



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

Chitimacha School – HVAC and Roof Replacement
LAGC Plan Room - Southwest

Project documents obtained from www.CentralBidding.com

26-Feb-2026 02:09:15 PM



Wednesday, February 25th, 2026

Chitimacha School – HVAC & Roof Replacement

3613 Chitimacha Trail, Charenton, LA 70523 (Physical Address)

ADDENDUM NO. One (1)

To the drawings and specifications dated **12-05-2025**:

NOTE:

1. This Addendum shall be considered as part of the original Contract Documents for the above-mentioned Project as though it had been issued at the same time and incorporated integrally therewith. All changes to the work and/or additional work contained herein shall be governed by the requirements of the Contract Documents. Where provisions of the following supplementary data differ from those of the original Contract Documents, this Addendum shall govern and take precedence.
2. Bidders are hereby notified that they shall make any necessary adjustments in their bid price on account of this Addendum. It must be acknowledged on the bid form that each bidder's proposal is submitted with full knowledge of all modifications and supplemental data specified herein.
3. Although additional may have been discussed during bidding, only items which have been adjusted, added, or removed via addenda are to be made part of the Construction Documents. This includes correspondence made via email. In the absence of changes by Addenda, the provisions of the originally issued construction documents will be required and enforced. If there are any outstanding issues which the bidder feels were discussed and should be added herein, the bidder is encouraged to point these issues out to the Architect prior to the bid date so that action may be considered.

GENERAL

- G1. See attached Pre-Bid Conference Agenda (and meeting minutes) that was presented at the Mandatory Pre-Bid Conference.
- G2. See attached Sign-In Sheet from Mandatory Pre-Bid Conference.

PRIOR APPROVAL SUSTITUTIONS:

Prior-Approved Substitutions as listed below shall be equal to those specified in every respect. The design team takes no objections to the brand names of the substitutions listed. Required submittals during construction phase services shall illustrate each substitution's compliance with the contract documents.

Contractor shall note that prior approval is by manufacturer's name only. Contractor shall ensure that the products used in preparation of his proposal and proposed to be used on this project is equivalent to that specified including: appearance, performance, size, installation type, shape, etc. Any material later found to not be equivalent to that specified will be rejected. Prior-approval of one manufacturer does not automatically approve any subsidiary company, parent company and/or "sister" company's respective products.

TYPE

MANUFACTURER

Fluid-Applied Air-Barrier
 Lighting (Per ADG Engineering)
 Lighting (Per ADG Engineering)

Soprema
 Kenall
 Day-brite

Lighting (Per ADG Engineering)
Lighting (Per ADG Engineering)

Signify
Wattstopper

Lighting Prior Approval Submittals;

See attached prior-approval submittal review comments / cover letters from ADG Engineering. See additional Architectural comments below;

Contractor to coordinate and verify that all lighting and mounting components are compatible with all ceiling heights/types & framing types/depths as shown in construction documents.

Pre-Bid RFI's

1. "Is this contract strictly a Single Prime – Building Construction award, or will the Owner consider bids for a roofing/waterproofing only scope if submitted separately?"

ANSWER: The contract will only be awarded to a single, licensed general contractor whom is licensed for building construction.

2. "The Advertisement lists the Pre-Bid Conference at 10:00 AM CST, while the portal references 11:00 AM. Additionally, there appears to be a reference to both the Tribal Development Office and the School site as meeting locations. Please confirm the official time and location?"

ANSWER: The mandatory pre-bid conference was held at the Tribal Development Office at 10:00am as indicated on Advertisement for Bids.

3. "The Advertisement indicates 2:00 PM CST, while the Centerline portal lists 3:00 PM. Please confirm the controlling bid due time."

ANSWER: Bids will be received until 2:00pm CST on March 10th, 2026 as indicated on the Advertisement for Bids.

4. "The Bid Form references Alternate No. 3 without a defined scope description. Should bidders carry a value for Alternate #3, or is this to be disregarded if not defined by addendum?"

ANSWER: Alternate #3 on the bid form is to be disregarded. There is currently no alternate #3 in the project.

5. "Is completion of the Unit Price Form required with submission, or only if applicable to selected alternates?"

ANSWER: Yes, a completed Unit Price Form is required with the bidder's bid package.

6. "Will bids be rejected if the prime contractor is not present on the pre-bid sign-in sheet?"

ANSWER: Yes, bids will be rejected if the prime contractor that submitted the bid was not present at the mandatory pre-bid conference.

Pre-Bid Conference

Project Name: *Chitimacha School – HVAC & Reroof Replacement*

Project Address: *Chitimacha Day School – P.O. Box 661 – Charenton, LA 70523*

Date & Time of Meeting: *February 19th, 2026 – 10:00 am*

Location of Meeting: *Keta Centre, Tribal Development Office*

200 Ralph Darden Memorial Pkwy, Baldwin LA, 70514

Agenda (& Meeting Minutes at end of document)

1. Welcome and Introduction of Team Members & Roles – Sign In
 - a. Owner Chitimacha Tribe of Louisiana – Brian Headley, Director of Business & Development
 - b. User: Chitimacha School
 - c. Architectural: AQ Studios
 - d. Civil: Bluewing Civil Consulting
 - e. Mechanical: ADG Engineering
 - f. Electrical: ADG Engineering
 - g. Structural: Fox–Nesbit Engineering
2. Bidding Information
 - a. Bid is scheduled to be
 - i. Date: March 10th, 2026
 - ii. Time: 2:00 p.m.
 - iii. Location: Tribal Development Office, 200 Ralph Darden Memorial Pkwy, Baldwin LA, 70514
 - b. Bids are to be held for 45 days
 - c. Verify that Bidders are licensed for Building Construction.
3. Bid Form:
 - a. Bidders required to use Bid form as included in the Documents.
 - b. Assure that bid is signed.
 - c. Assure that Company Name, which appears on the envelope, is the exact same name as that for which you are licensed by the State of Louisiana licensing Board.
 - d. Owner requests separation of costs for their accounting purposes.
 - i. A schedule of values needs to be submitted within 48 hours of Notification of a Successful Bid.
 1. Note: Schedule of Values shall be broken out to show separate line items for early submittals, ordered & stored materials, and installation/labor within each spec division.
4. Addenda
 - a. Addenda should be enumerated on the Bid form
 - b. We do not intend to issue Addenda within 72 hours prior to opening of the Bids unless an extension of the bid date is included in the Addendum.
5. Contract Time:
 - a. Construction Time shall be between May 16th, 2026 & August 2nd, 2026. Procurement of materials shall start once project has been awarded to

AQ Studios

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contractor and prior to start of construction date.

- i. Time to include nights, weekends, overtime, and holidays if and as needed to complete within Owner's required schedule.
- ii. Discuss if Contractors foresee challenges with proposed time.
 - b. Notice to Proceed will not be issued until bonds and insurances have been received and approved by Owner.

6. Contract

- a. Format: American Institute of Architects AIA A101
- b. General Conditions of the Contract: American Institute of Architects AIA A201

7. Builder's Risk Insurance

- a. Required in contract

8. Performance and Payment Bonds

- a. In the amount equal to 100% of the Contract amount.

9. Contract Documents

- a. Contract documents are made up of Plans, Specifications, and any owner-provided info.
- b. Work shall conform to the requirements of the Contract Documents.
- c. More complete, detailed, or specific information shall take precedence over vague information. When in doubt, the more expensive solution shall be included in bid.
- d. There is no perfect set of drawings and specs.
 - i. While this set of documents is intended to be detailed and well-coordinated, there may be occasions where minor coordination issues / ambiguities exist.
 - ii. It is the Bidder's responsibility to review in detail all the requirements prior to submission of bids as well as review the physical conditions of the site.
 - iii. The purpose of the Documents is to convey the design intent for the entire project.
- e. The Divisions within the specifications are not intended to delineate work between subcontracts. It is solely the responsibility of the General Contractor to determine what work is performed by individual trades.

10. Brand Name Specifications

- a. The name of a brand, make, or manufacturer in specification is intended to denote quality standard of the article desired. Submissions for substitution of equivalent quality will be considered, however must be submitted in accordance with the contract documents with applicable backup documentation on Substitution Request Form.
- b. Only items as specified or prior-approved substitutions in accordance with the documents will be allowed to be incorporated into the Project.
- c. Prior-Approval of a substitute manufacturer/brand does not

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relieve the contractor from providing equivalent quality and may be later rejected if determined that the product does not match the quality of that specified.

11. Submittal Procedures
 - a. Submittal procedures outlined within the Sheet Specifications will be strongly enforced.
 - b. Submittals not checked and stamped will be returned and not be reviewed until checked and stamped by the General Contractor.
 - c. CAD files will be made available from the Architect based upon the conditional information outlined within the Sheet Specifications.
 - d. Submittals should be prioritized by the General Contractor once contract has been awarded and prior to construction start date (5/15) to minimize impacts of material lead times on construction schedule.**
 - e. Contractor shall utilize Autodesk Build for submission of all RFI's & submittals. Access to Autodesk Build will be provided by AQ Studios to the awarded contractor.**

12. Supervision
 - a. Whenever work activity is being performed, the Contractor shall have competent supervision on site at all times.
 - i. If no supervision is being provided, a recommendation to stop work will be given to the Owner.
 - b. Sub Contractor supervision
 - i. At any time a sub contractor is working on site, a competent foreman of the sub contractor's crew is to be on site providing supervision and direction.
 - ii. The General Contractor's superintendent is not a sub contractor foreman.

13. Architect's Comments
 - a. Every effort should be made to minimize disturbance to existing systems.
 - b. Conditions for use of the Owner's utilities are outlined in Division 1 Section "Temporary Facilities and Controls" in the contract documents.
 - i. It should be assumed that the contractor will have no other use of Owner's facilities
 - ii. Contractors shall protect and maintain constructed items in new condition
 - c. Architect would request that contractors identify any known labor shortages, lead time issues, unusual construction material cost increases, and/or market conditions at this time

14. Owner's Comments
 - a. Davis-Bacon Act for prevailing wage requirement apply to this project.**
 - b. This project is Tax-Exempt**
Materials must be delivered to, and stored on site in order to bill/invoice in pay-apps and to qualify for tax exemption.
Contractor must utilize concrete parking/drive areas ONLY for

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storing materials as indicated on Construction Zone Plan in drawing package.

c. Contractor shall work with owner and phase work as necessary to minimize impacts to operations of existing systems. Computer and IT systems must stay operational during construction.

15. Consultants Comments - None
16. Contractor's Questions - None
17. Summary - None

Meeting Minutes:

1. Introduction of attendees and distributed Sign-In Sheet.
2. It was mentioned that mechanical equipment may have long lead times.
 - a. AQ reiterated that contractors to prioritize early submittals during procurement phase to minimize impacts on lead times.
3. All site visits during bidding phase to be coordinated with Brian Headley, Director of Business & Development.
4. AQ and Owner reiterated the requirement of stored materials (on-site) for eligibility of tax-exemption. Tax exemption form will be provided to the awarded contractor.
5. Owner stated that materials can ONLY be stored on concrete surfaces. Materials CANNOT be stored on grass/natural areas of the site. If storage container (conex box) is required for storage, the contractor shall coordinate with the owner prior to storing material.
6. Owner stated that contractor is to utilize nights, weekends, and holidays as necessary to complete the project by the required project completion date.
7. The owner mentioned that it is important for the contractor to coordinate any work above ceilings with existing conditions and that work performed shall have least interference with operation and functionality of school systems as possible.
8. Owner stated that once contract is awarded, any on-site coordination that has to occur during the school session shall be coordinated and approved by owner.
9. Non-mandatory site visit followed the pre-bid conference. AQ noted that all questions by the contractor on-site shall be followed up with a pre-con RFI in order to be answered in an addendum.

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Sign-In Sheet

Project Name: CHITIMACHA SCHOOL - HVAC/REROOF

Meeting: PRE-BID CONFERENCE - MANDATORY

Date: 2/19/2026 - 10:00AM

NAME

COMPANY

E-MAIL

* **NOTE: PLEASE ADD ASTERISK BY NAME IF YOU ARE LICENSED GENERAL CONTRACTOR / PRIME BIDDER.**

Aaron schaubhut Aa

Donnie Metherne AQ

* Eddie Payton ARL construction Inc arl@arl.construction

Michael Bellard THE BELLTECH GROUP, INC. ^{beg.mike@} LUSFIBER.net

* DREUX DICHARRY / COLEMAN ROOFING & CONSTRUCTION GONZALES, LLC

Terrye Rycars.com / Estimating@Rycars.com

Terry Vinnett

Brian HEADLEY CHITIMACHA TRIBE Brian@chitimacha.gov

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DAVID BROUSSARD AIRPLUS, LLC DAVID@AIRPLUSHVAC.NET

Alex Guillany BWC alex@bluewingcivil.com

Aaron Eulund BWC aaron@bluewingcivil.com

Rashad Watson Rashad Ac and Hea Rashad@Rashadacandheating.com
678-727-2406

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Submittal Review Comments



PROJECT NAME: Chitimacha School HVAC Replacement
ADG PROJECT #: 25004 SHEET #: 1 OF 1
RECEIVED DATE: 02/10/2026 REVIEWED DATE: 02/10/2025
REVIEWED BY: Spence Suire
SUBMITTAL: Lighting Fixtures Prior Approval Submittal
x

NO EXCEPTION TAKEN MAKE CORRECTIONS NOTED REJECTED
 REVISE AND RESUBMIT SUBMIT SPECIFIC ITEM

Checking is only for general conformance with the design concept of the project and general compliance with the information given in the contract documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for: dimensions which shall be confirmed and correlated at the jobsite; fabrication processes and techniques of construction; coordination of his work with that of all other trades; and the satisfactory performance of his work.

BY: Spence Suire DATE: 02/10/26

The following comments refer to submittals on the above referenced project:

1. Equipment furnished shall meet or exceed all scheduled capacities and/or performance ratings. Provide all specified options and accessories as well as manufacturer recommended accessories and options, for this specific installation, to provide a complete and working system, meeting or exceeding manufacturer installation instructions.
2. Contractor shall submit point by point lighting calculations using the selected fixtures along with the lighting fixture submittal.



SESCO
LIGHTING

CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Feb 09 2026

LIGHTING PRIOR APPROVAL REQUEST

Stakeholders

ENGINEER ADG ENGINEERING

ARCHITECT AQ STUDIOS



Prepared By

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504-326-1400
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Metairie, LA 70002, USA



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Unknown			
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L7	LEDALITE BY SIGNIFY	TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF	27
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L9	LEDALITE BY SIGNIFY	TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF	47
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Notes Summary

Unknown		
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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : KENALL

Model Number : S1414L-P-FINISH-25L40K-DV-ASA

Notes : SPECIFY FINISH

Type : A

SENTINALL™

S1414L SERIES (2400)

PRODUCT FEATURES:

- » Surface ceiling mount – 14"W×14"W×3"D
- » 18-gauge cold rolled steel baseplate
- » UV-stabilized, injection molded polycarbonate lens
- » Stainless steel Torx® fasteners



SPECIFICATIONS

BASEPLATE: 18-gauge CRS. Baseplate provided with four-point mounting holes, one wireway hole and junction box mounting keyholes – see Cross Section/Details. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. See Options or Accessories for marine grade aluminum baseplate (AL) and aluminum surface conduit adapter (ASA).

LENS/HOUSING: One-piece wraparound lens/housing. UV-stabilized, high impact, virgin injection molded polycarbonate. Housing section available in Matte White or Dark Bronze finish.

REFLECTOR: Full reflector/wire cover – white finished aluminum (92% reflectivity).

GASKET: Die-cut closed cell neoprene gasket seals lens/housing to mounting surface.

HARDWARE: Two stainless steel Torx® T-20 with center pin fasteners secure lens/housing to baseplate.

ELECTRICAL: Available in 3500K, 4000K, and 5000K color temperatures, 80 CRI. 120-277VAC or 347VAC, 50/60Hz electrical input with high power factor electronic, constant-current driver (>.90 PF). Standard 0-10V dimming with 1-100% range; maximum driver source of 200 µA.

SENSOR & CONTROLS: Optional sensor available with compatible third party controls. To see the full list of compatible controls, [click here](#).

INSTALLATION: Standard four-point mounting required for Peace of Mind Guarantee®.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric information, go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty. Peace of Mind Guarantee against breakage.

LISTINGS: Luminaire is certified to UL Standards by Intertek Testing Laboratory for Wet Location – covered ceiling mount. ADA compliant. Luminaire tested to an IK10 impact protection rating per IEC 60068-2-75:1997-08.



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

ORDERING INFORMATION (Ex: S1414L-P-DB-25L40K-DV)

Model	Lens Type	Finish	Lamp Type	Voltage	Options	Accessories
S1414L	P	SPECIFY FINISH				
	Lens Type		Lamp Type		Options	
	P Pearlescent		15L35K 15 Watt 3500K LED		LEL-SA* LED Emergency Battery Backup with CRS Surface Adapter, non-ADA (n/a with 347V)	
			15L40K 15 Watt 4000K LED		LEL-ASA* LED Emergency Battery Backup with Aluminum Surface Adapter, non-ADA (n/a with 347V)	
			15L50K 15 Watt 5000K LED		AL Marine Grade Aluminum Baseplate	
	Finish		25L35K 25 Watt 3500K LED		FS Single Fuse & Holder	
	MW Matte White		25L40K 25 Watt 4000K LED		RWK Retrofit Wiring Kit – Medium Base Socket (9143) (120 Volt only)	
	DB Dark Bronze		25L50K 25 Watt 5000K LED			
			Voltage		Accessories	
			120 120 Volts		ASA* Aluminum Surface Adapter (non-ADA)	
			277 277 Volts		SA* CRS Surface Adapter (non-ADA)	
			347 347 Volts			
			DV 120-277 Volts			

* n/a with ASA or SA Accessory
 ▲ n/a with LEL-SA or LEL-ASA Option



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S1414L-111122



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : KENALL

Model Number : S1414L-P-FINISH-25L40K-DV-ASA

Notes : SPECIFY FINISH

Type :
A

SENTINALL™

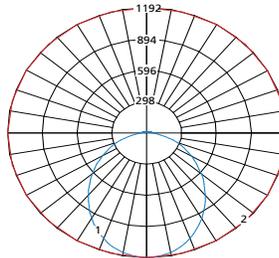
S1414L SERIES (2400)

PERFORMANCE

Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
	@ 25°C	Efficacy (lm/W)			
15L35K	2223	112	20	75	85,000
15L40K	2223	112	20	75	85,000
15L50K	2423	122	20	75	85,000
25L35K	3260	109	30	63	65,000
25L40K	3260	109	30	63	65,000
25L50K	3553	119	30	63	65,000

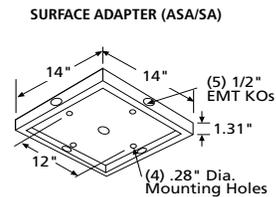
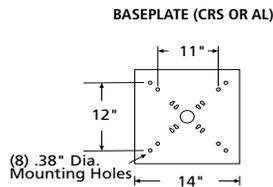
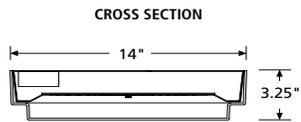
Information subject to change. Visit www.kenall.com for IES files and additional information.

Model: S1414L-P-MW-25L40K-DV



Max Candela = 1192 Located At Horizontal Angle = 0, Vertical Angle = 0
 — 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
 — 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

DIMENSIONAL DATA



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S1414L-111122



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : DAY-BRITE
Model Number : 2FPZ38L840-4-A12-UNV-DIM

Type :
A4



Day-Brite/CFI FluxPanel LED gen 2 recessed is a highly versatile luminaire designed to provide smooth lighting gradient on the lens surface and ease of installation. Available for use in recessed, suspended, and surface mount orientation, FluxPanel gen 2 is ideal for general lighting applications such as open office, schools, healthcare, clean rooms, and retail.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Qty: _____
 Notes: _____

Ordering guide

Standard configurations available with all choices, unless otherwise noted.
 Base configurations selections indicated by blue.

Example: 2FPZ43L840-4-DS-UNV-DIM-EM10

Family	Lumens (nominal delivered)	Color (CRI / CCT)	Length	Diffuser	Voltage	Driver	Options 2,3,15
2FPZ			4				
2FPZ 2ft FluxPanel gen 2	Base config^{4,3}	830 80 CRI, 3000K	4 4ft	DS Diffuse (smooth)	UNV Universal Voltage, 120-277V	DIM¹ 0-10V dimming	F1⁵ 3/8" flex, 18 gauge 6'; 3 leads include hot, neutral, ground
	42B 4200lm	835 80 CRI, 3500K		ADS Acrylic Diffuse (smooth)	120³ 120V	SDIM Step dimming to 30% input power	F2 3/8" flex, 18 gauge 6'; 4 leads include 2 hots, neutral, ground
	48B 4800lm	840 80 CRI, 4000K		A12 Diffuse (Prismatic)	277 277V		F1/D^{8,3} 3/8" twin flex, 18 gauge 6' for dimmable luminaires; Flex 1: 3 leads include hot, neutral, ground Flex 2: 2 leads, Dim +/Dim -
	54B 5400lm	850 80 CRI, 5000K			347 347V		F2/5W^{8,3} 3/8" single flex, 18ga. 6' for dimmable luminaires; 5 leads include hot, neutral, ground, Dim + / Dim -
	Standard configs	930⁶ 90 CRI, 3000K					F2/6W⁸ 3/8" single flex, 18ga. 6' for dimmable & EM luminaires; 6 leads include 2 hot, neutral, ground, Dim + / Dim -
	15L 1500lm	935⁶ 90 CRI, 3500K					GLR Fusing, fast blow
	30L 3000lm	940⁶ 90 CRI, 4000K					DSC Quick driver disconnect
	38L 3800lm						CHIC Chicago Plenum rated
	43L 4300lm						BAC¹³ Meets the requirements of the Buy American Act of 1933 (BAA)
	48L 4800lm						ER100^{4,5,11,12} UL924 listed sensor bypass relay, factory installed between driver & sensor
54L 5400lm						EM10^{5,9,16} Bodine 10W battery pack	
60L 6000lm						EM06^{5,9,16} Bodine 6W battery pack	
74L 7400lm						SWZCSR^{1,4,7,9,10} Remote Interact wireless sensor, with integral daylight & occupancy sensing, advanced grouping with dwell time	
80L 8000lm						SWZCS^{1,4,9,10,16} Interact wireless sensor, with integral daylight & occupancy sensing, advanced grouping with dwell time	
						RADIO^{1,4,5,7,9} Interact RF sensor for wireless connectivity only, no sensing	
						DAYOCC⁶ Basic sensor with daylighting and occupancy	

- 1 Integral control options dimmable to 1% via wireless wall switch. Non-controls options are 0-10V dimmable to 1% for Standard configurations and 5% for Base configurations.
- 2 All options only available with Standard configurations.
- 3 Base configurations available with flex as factory installed options.
- 4 Specify DIM driver option only.
- 5 Not available with 347V option.
- 6 90CRI is qualified as Engineered-to-Order (ETO) ready. Lead times and minimum order quantities may vary, please consult factory. Only requires NIS request.
- 7 Not available with surface or suspended accessories.
- 8 Flex with dimming not available with Interact sensors.
- 9 Emergency and Interact options not clean room certified, nor NSF listed.
- 10 Must order IRT9015 Interact commissioning remote with each system order.
- 11 Must be installed in conjunction with a UL1008 device.
- 12 Must be ordered with an integral controls option.
- 13 Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- 14 Consult Signify to confirm whether specific accessories are BAA-compliant.
- 15 Third party sensors also available, please enquire about options for Lutron Athena, Vive, or others.
- 16 Specify ADS diffuser for integrated sensor or EM test switch.

Accessories¹⁴ (order separately)

- **FMA24:** 2'x4' "F" mounting frame for NEMA "F" mounting
- **FSK24:** 2'x4' surface mount field installation kit (factory welded seams)
- **FSF24:** 2'x4' surface mount field assembly kit (field assembled)
- **FPZCH48-1D-SC-UNV:** adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered).
- **FPZCH48-1D-SC-347:** adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered).
- **IRT9015:** handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search

FluxPanel-LED-2x4-gen2-en





2FPZ FluxPanel

Recessed 2x4 at up to 8000 lumens

Application

- Base configurations are 19/16". Standard configurations are 3" Dimensions stated for overall depth, including driver box.
- Even distribution of light on the lens provides exceptionally low glare gradient minimizing distractions at the ceiling plane.
- General light distribution creates uniform horizontal and vertical illuminance on the work plane and limits scalloping on the walls.
- Excellent consistency of correlated color temperature (CCT) per ANSI C78.377.
- CRI 80 minimum color rendering with balanced spectrum.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster application require use with the FMA14FP "F" mounting frame accessory (sold and shipped separately).
- Accessory field install kits available for surface (FSF14) and suspended (FPZCH48) mounting.

Enclosure

- Diffuser provides visual comfort and high efficiency.
- Flat opal lens is easy to clean and provides a uniform aesthetic on the ceiling plane.
- Tight enclosure assembly impedes ingress of dust and insects.

Energy data

Luminaire	Catalog	Input Power	Efficacy	DLC
2x4 Standard	2FPZ15L840	12	122	Standard
	2FPZ30L840	23	132	Premium
	2FPZ38L840	29	132	Premium
	2FPZ43L840	30	132	Premium
	2FPZ48L840	37	132	Premium
	2FPZ54L840	42	130	Premium
	2FPZ60L840	47	131	Premium
	2FPZ74L840	58	127	Premium
	2FPZ80L840	65	125	Premium
2x4 Base	2FPZ42B840	40	110	Standard

Electrical

- Up to 135 lm/W efficacy.
- High efficiency Advance driver featuring high power factor (>0.90), 120-277V 60/50Hz, and less than 15% THD.
- Minimum start temperature -20°C (-4°F).
- Standard configurations are 0-10V dimming to 1%. Base configurations are to 5%.
- To predict lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1200lm for BSL10LST, and 850lm for BSL6LST.
- Electromagnetic interference (EMI) compliant to FCC Title 47 Part 15 class A.
- Flicker and stroboscopic effect compliant to NEMA 77-2017.
- TM-21 predicted L70 lumen maintenance up to 90,000 hours per LED manufacturer LM-80 report.
- cULus (Base) or cETLus (Standard) listed to UL and CSA standards, suitable for damp locations.
- Rated for NSF/ANSI 2 – Light fixture for Non Food Zone. Not intended for use in wet location nor hose down applications.
- Rated for clean room use – meets ISO14644-1 Class 5-9 (equivalent to Federal Standard No. 209E Class 100-100,000)
- Base and Standard configurations are IC rated.
- FluxPanel luminaires are Designlights Consortium® Standard qualified. Please see the DLC QPL list for exact catalog numbers (www.designlights.org/QPL).

Construction/Finish

- Die formed galvanized steel housing.
- Extruded aluminum frame post painted with gloss white enamel finish. Corners are precision welded for seamless aesthetic.
- Emergency options available with factory installed battery pack.
- Die formed driver box with standard access plate for ease of wiring, provides tool-free access to driver(s) from above.
- Back lit LED arrays with optics provide highly efficient and unpixelated transfer of light to the diffuser.
- Integral clips accommodate definitive attachment to T-bar grid for recessed applications.
- Die formed surface box accessory kit post painted gloss white enamel.

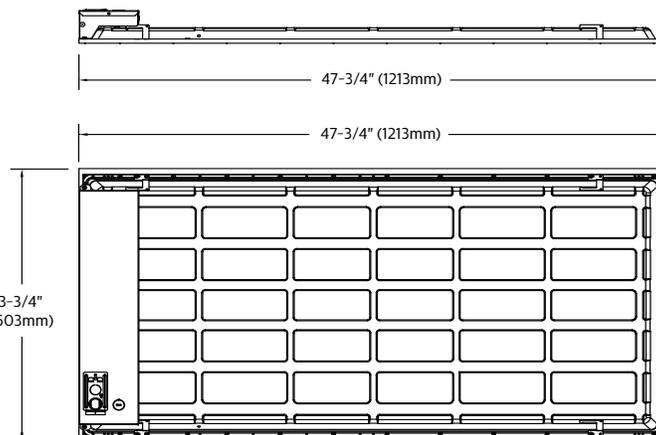
General Notes

- All options factory installed.
- All accessories are field installed.
- Declare label certified, ID SGY-0020 ([View full Declare label](#))
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.
- Five year limited luminaire warranty includes LED boards and driver. Visit www.signify.com/warranties for complete warranty information.

Dimensions



Note: Base configurations are 1-9/16" deep. Standard configurations are 3" deep.
 Emergency driver box shown is 20.5" (521mm) long.
 Standard non-EM driver box is 10.5" (267mm) long.





2FPZ FluxPanel

Recessed 2 x 4 at up to 8000 lumens

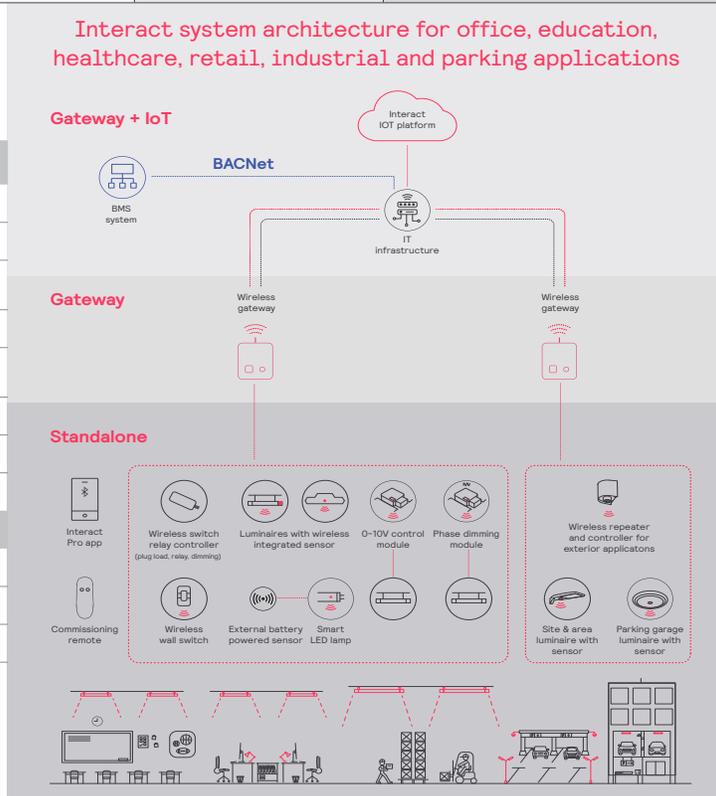
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





2FPZ FluxPanel

Recessed 2 x 4 at up to 8000 lumens

Wireless controls options

Interact – a scalable sensor

- SWZCS standalone mode or in a cloud connected mode if a compatible gateway is used.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
 - Compatible with:
 - UID8465 wireless dimmer switch
 - SWS200 wireless scene switch
 - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
 - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
 - Battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
 - Battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

Radio only sensor (RADIO)

- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non-gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely, identify and group devices together onsite.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: -
SWZDT – www.usa.lighting.philips.com/systems/lighting-systems/spacewise

Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

3rd party sensors:

- Third party sensors available, please enquire about options for Lutron Athena, Vive, or others.

Interact supported sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-



2FPZ FluxPanel

Recessed 2x4 at up to 8000 lumens

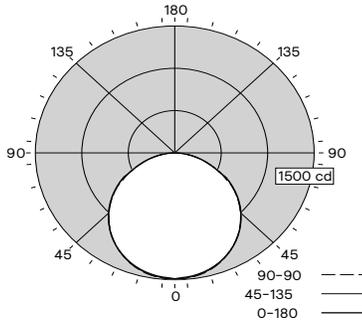
2FPZ43L835-4-DS-UNV-DIM

Luminaire Lumens 4317
Luminaire Efficacy Rating (LER) 132
Total Luminaire Watts 32.6
Spacing Criterion (0-180) 1.26

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1488	1488	1488	1488	1488	
5	1474	1483	1489	1483	1474	141
15	1425	1433	1438	1433	1425	404
25	1329	1333	1333	1333	1329	614
35	1189	1189	1185	1189	1189	743
45	1008	1005	999	1005	1008	775
55	794	790	783	790	794	705
65	520	536	533	536	520	528
75	293	290	288	290	293	307
85	85	84	89	84	85	98
90	4	15	34	15	4	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1159	26.8%	26.8%
0-40	1902	44.1%	44.1%
0-60	3381	78.3%	78.3%
0-90	4314	99.9%	99.9%
0-180	4317	100.0%	100.0%

Avg. Luminance (cd/m²)			
	0	90	180
0	2441	2441	2441
5	2427	2451	2427
15	2420	2441	2420
25	2405	2413	2405
35	2380	2372	2380
45	2337	2318	2337
55	2271	2240	2271
65	2019	2067	2019
75	1857	1822	1857
85	1596	1681	1596



Coefficients of Utilization %												
Pc ---	80				70			50		0		
	70	50	30	10	70	50	30	50	30	10	0	
Pw ---	0	119	119	119	119	116	116	116	111	111	111	100
1	109	104	99	95	106	101	97	97	94	91	83	
2	99	90	83	77	96	88	82	85	79	75	69	
3	90	79	71	64	87	77	70	74	68	62	58	
4	82	70	61	54	80	69	60	66	59	53	49	
5	75	62	53	47	73	61	53	59	52	46	43	
6	70	56	47	41	68	55	47	53	46	40	37	
7	65	51	42	36	63	50	42	49	41	35	33	
8	60	46	38	32	58	46	38	44	37	32	29	
9	56	43	34	29	55	42	34	41	34	28	26	
10	53	39	31	26	51	39	31	38	31	26	24	

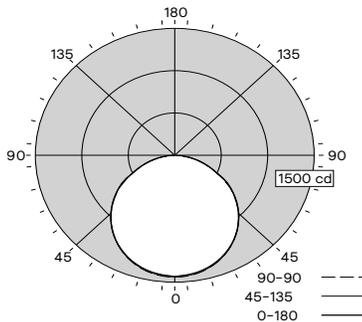
2FPZ43L840-4-DS-UNV-DIM

Luminaire Lumens 4164
Luminaire Efficacy Rating (LER) 128
Total Luminaire Watts 32.5
Spacing Criterion (0-180) 1.26

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1436	1436	1436	1436	1436	
5	1421	1432	1435	1432	1421	136
15	1374	1383	1386	1383	1374	390
25	1281	1287	1288	1287	1281	593
35	1145	1148	1147	1148	1145	718
45	971	971	969	971	971	749
55	765	762	759	762	765	681
65	501	498	516	498	501	506
75	284	279	279	279	284	297
85	83	80	84	80	83	94
90	7	11	30	11	7	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1118	26.9%	26.9%
0-40	1836	44.1%	44.1%
0-60	3266	78.4%	78.4%
0-90	4162	100.0%	100.0%
0-180	4164	100.0%	100.0%

Avg. Luminance (cd/m²)			
	0	90	180
0	2355	2355	2355
5	2340	2363	2340
15	2333	2354	2333
25	2318	2332	2318
35	2294	2297	2294
45	2253	2247	2253
55	2189	2170	2189
65	1944	2001	1944
75	1797	1767	1797
85	1564	1585	1564



Coefficients of Utilization %												
Pc ---	80				70			50		0		
	70	50	30	10	70	50	30	50	30	10	0	
Pw ---	0	119	119	119	119	116	116	116	111	111	111	100
1	109	104	99	95	106	101	97	97	94	91	83	
2	99	90	83	77	96	88	82	85	79	75	69	
3	90	79	71	64	87	77	70	74	68	62	58	
4	82	70	61	54	80	69	60	66	59	53	49	
5	75	62	53	47	73	61	53	59	52	46	43	
6	70	56	47	41	68	55	47	53	46	40	37	
7	65	51	42	36	63	50	42	49	41	35	33	
8	60	46	38	32	58	46	38	44	37	32	29	
9	56	43	34	29	55	42	34	41	34	28	26	
10	53	39	31	26	51	39	31	38	31	26	24	

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www.day-brite.com



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : DAY-BRITE
Model Number : 2FPZ38L840-2-A12-UNV-DIM

Type :
A12



Day-Brite/CFI FluxPanel LED gen 2 recessed is a highly versatile luminaire designed to provide smooth lighting gradient on the lens surface and ease of installation. Available for use in recessed, suspended, and surface mount orientation, FluxPanel is ideal for general lighting applications such as open office, schools, healthcare, clean rooms, and retail.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Qty: _____
 Notes: _____

Ordering guide

Standard configurations available with all choices, unless otherwise noted.
 Base configurations selections indicated by blue.

Example: 2FPZ38L840-2-DS-UNV-DIM-EM06

Family	Lumens (nominal delivered)	Color (CRI / CCT)	Length	Diffuser	Voltage	Driver	Options 2,3,15	
2FPZ			2					
2FPZ 2ft FluxPanel gen 2	Base config^{3,4}	830 80 CRI, 3000K	2 2ft	DS Diffuse (smooth)	UNV Universal Voltage, 120-277V	DIM¹ 0-10V dimming	F1⁵ 3/8" flex, 18 gauge 6"; 3 leads include hot, neutral, ground	
	38B 3800lm	835 80 CRI, 3500K		ADS Acrylic Diffuse (smooth)			SDIM Step dimming to 30% input power	F2 3/8" flex, 18 gauge 6"; 4 leads include 2 hots, neutral, ground
	45B 4500lm	840 80 CRI, 4000K		A12 Diffuse (Prismatic)				F1/D^{3,8} 3/8" twin flex, 18 gauge 6' for dimmable luminaires; Flex 1: 3 leads include hot, neutral, ground Flex 2: 2 leads, Dim +/Dim -
	54B 5400lm	850 80 CRI, 5000K						F2/5W^{3,8} 3/8" single flex, 18ga. 6' for dimmable luminaires; 5 leads include hot, neutral, ground, Dim + / Dim -
	Standard configs	930⁶ 90 CRI, 3000K						F2/6W⁸ 3/8" single flex, 18ga. 6' for dimmable & EM luminaires; 6 leads include 2 hot, neutral, ground, Dim + / Dim -
	20L 2000lm	935⁶ 90 CRI, 3500K						GLR Fusing, fast blow
	30L 3000lm	940⁶ 90 CRI, 4000K						DSC Quick driver disconnect
	38L 3800lm							CHIC Chicago Plenum rated
	45L 4500lm							BAC¹³ Meets the requirements of the Buy American Act of 1933 (BAA)
	54L 5400lm							ER100^{4,5,11,12} UL924 listed sensor bypass relay, factory installed between driver & sensor
Other lumen packages may be ordered in increments of 100 lumens from 2000lm to 5400lm				EM10^{5,9,15} Bodine 10W battery pack				
				EM06^{5,9,15} Bodine 6W battery pack				
				SWZCSR^{1,4,7,9,10} Remote Interact wireless sensor, with integral daylight & occupancy sensing, advanced grouping with dwell time				
				SWZCS^{1,4,9,10} Interact wireless sensor, with integral daylight & occupancy sensing, advanced grouping with dwell time				
				RADIO^{1,4,5,7,9} Interact RF sensor for wireless connectivity only, no sensing				
				DAYOCC Basic sensor with daylighting and occupancy				

- Integral control options dimmable to 1% via wireless wall switch. Non-controls options are 0-10V dimmable to 1% for Standard configurations and 5% for Base configurations.
- All options only available with Standard configurations.
- Base configurations available with flex as factory installed option.
- Specify DIM driver option only.
- Not available with 347V option.
- 90CRI is qualified as Engineered-to-Order (ETO) ready. Lead times and minimum order quantities may vary, please consult factory. Only requires NIS request.
- Not available with surface or suspended accessories.
- Flex with dimming not available with Interact sensors.
- Emergency and Interact options not clean room certified, nor NSF listed.
- Must order IRT9015 Interact commissioning remote with each system order.
- Must be installed in conjunction with a UL1008 device.
- Must be ordered with an integral controls option.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.
- Third party sensors also available, please enquire about options for Lutron Athena, Vive, or others.

Accessories¹⁴ (order separately)

- FMA22:** 2'x2' "F" mounting frame for NEMA "F" mounting
- FSK22:** 2'x2' surface mount field installation kit (factory welded seams)
- FSF22:** 2'x2' surface mount field assembly kit (field assembled)
- FPZCH48-1D-SC-UNV:** adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered).
- FPZCH48-1D-SC-347:** adjustable cable hanger kit with straight white 18/5 cord for dimming (two-1 powered, 1 non-powered).
- IRT9015:** handheld remote for grouping and configuration (at least one remote required for any SWZCS installation).

FluxPanel-LED-2x2-gen2-en

Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search



2FPZ FluxPanel

Recessed 2x2 at up to 5400 lumens

Application

- Base configurations are 19/16". Standard configurations are 3" Dimensions stated for overall depth, including driver box.
- Even distribution of light on the lens provides exceptionally low glare gradient minimizing distractions at the ceiling plane.
- General light distribution creates uniform horizontal and vertical illuminance on the work plane and limits scalloping on the walls.
- Excellent consistency of correlated color temperature (CCT) per ANSI C78.377.
- CRI 80 minimum color rendering with balanced spectrum.
- Designed for use with standard Grid (NEMA "G") or Narrow Grid (NEMA "NFG") ceiling T-bars. Drywall or plaster application require use with the FMA14FP "F" mounting frame accessory (sold and shipped separately).
- Accessory field install kits available for surface (FSF14) and suspended (FPZCH48) mounting.

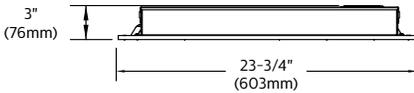
Enclosure

- Diffuser provides visual comfort and high efficiency.
- Flat opal lens is easy to clean and provides a uniform aesthetic on the ceiling plane.
- Tight enclosure assembly impedes ingress of dust and insects.

Energy data

Luminaire	Catalog	Input Power	Efficacy	DLC
2x2 Standard	2FPZ20L840	16	127	Premium
	2FPZ30L840	23	129	Premium
	2FPZ38L840	34	132	Premium
	2FPZ45L840	36	128	Premium
	2FPZ54L840	42	126	Premium
2x2 Base	2FPZ38B840	33	119	Standard

Dimensions



Note: Base configurations are 1-9/16" deep. Standard configurations are 3" deep.

Emergency driver box shown is 20.5" (521mm) long.

Standard non-EM driver box is 10.5" (267mm) long oriented 90° in tabs shown.

Electrical

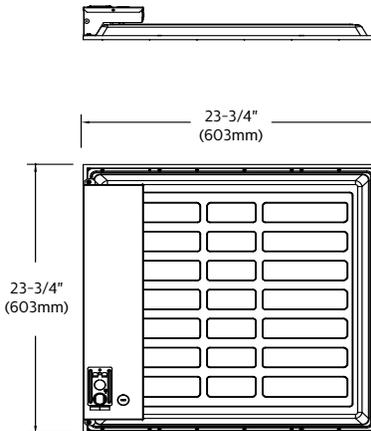
- Up to 132 lm/W efficacy.
- High efficiency Advance driver featuring high power factor (>0.90), 120-277V 60/50Hz, and less than 15% THD.
- Minimum start temperature -20°C (-4°F).
- Standard configurations are 0-10V dimming to 1%. Base configurations are to 5%.
- To predict lumen output in emergency mode, multiply emergency pack wattage by luminaire efficacy, then by 1.10. Typical lumen output is 1200lm for BSL10LST, and 850lm for BSL6LST.
- Electromagnetic interference (EMI) compliant to FCC Title 47 Part 15 class A.
- Flicker and stroboscopic effect compliant to NEMA 77-2017.
- TM-21 predicted L70 lumen maintenance up to 90,000 hours per LED manufacturer LM-80 report.
- cULus (Base) or cETLus (Standard) listed to UL and CSA standards, suitable for damp locations.
- Rated for NSF/ANSI 2 – Light fixture for Non Food Zone. Not intended for use in wet location nor hose down applications.
- Rated for clean room use – meets ISO14644-1 Class 5-9 (equivalent to Federal Standard No. 209E Class 100-100,000)
- Base and Standard configurations are IC rated.
- FluxPanel luminaires are Designlights Consortium® Standard qualified. Please see the DLC QPL list for exact catalog numbers (www.designlights.org/QPL).

Construction/Finish

- Die formed galvanized steel housing.
- Extruded aluminum frame post painted with gloss white enamel finish. Corners are precision welded for seamless aesthetic.
- Emergency options available with factory installed battery pack.
- Die formed driver box with standard access plate for ease of wiring, provides tool-free access to driver(s) from above.
- Back lit LED arrays with optics provide highly efficient and unipixilated transfer of light to the diffuser.
- Integral clips accommodate definitive attachment to T-bar grid for recessed applications.
- Die formed surface box accessory kit post painted gloss white enamel.

General Notes

- All options factory installed.
- All accessories are field installed.
- Declare label certified, ID SGY-0020 ([View full Declare label](#))
- Many luminaire components, such as reflectors, refractors, lenses, sockets, lampholders, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur based chemicals, petroleum based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility.
- Five year limited luminaire warranty includes LED boards and driver. Visit www.signify.com/warranties for complete warranty information.





2FPZ FluxPanel

Recessed 2x2 at up to 5400 lumens

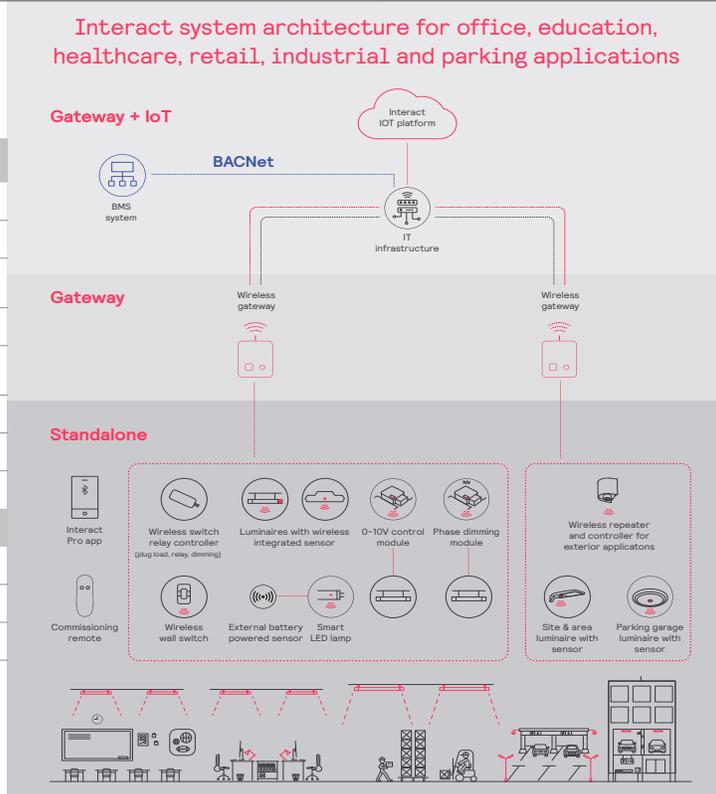
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





2FPZ FluxPanel

Recessed 2 x 2 at up to 5400 lumens

Wireless controls options

Interact – a scalable sensor

- SWZCS standalone mode or in a cloud connected mode if a compatible gateway is used.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
 - Compatible with:
 - UID8465 wireless dimmer switch
 - SWS200 wireless scene switch
 - Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
 - Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
 - Battery powered IP65 presence sensor OCC sensor IA CM IP65 WH
 - Battery powered IP65 presence & daylight sensor OCC-DL sensor IA CM IP65 WH
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

Radio only sensor (RADIO)

- Integral RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non-gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely, identify and group devices together onsite.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

SpaceWise DT (SWZDT)

- Standalone daylight and occupancy sensing with advanced grouping, wireless mesh networking and dwell time.
- Commissioning via compatible Android phone and Philips Field App
- Dimming via compatible Zigbee wireless wall switch only (see link below for details)
- Register for the commissioning app at <http://registration.componentcloud.philips.com/appregistration/>
- Integral sensing options may not be combined
- For more information including recommended switches, refer to the following: -
SWZDT – www.usa.lighting.philips.com/systems/lighting-systems/spacewise

Emergency Options (ER100)

- Power Sensing (Factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output
- Power Interruption Detection (Field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output

3rd party sensors:

- Third party sensors available, please enquire about options for Lutron Athena, Vive, or others.

Interact supported sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-



2FPZ FluxPanel

Recessed 2x2 at up to 5400 lumens

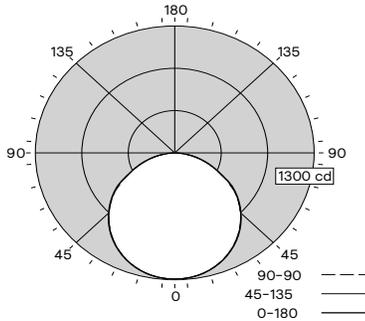
2FPZ38L835-2-DS-UNV-DIM

Luminaire Lumens 3710
Luminaire Efficacy Rating (LER) 125
Total Luminaire Watts 29.8
Spacing Criterion (0-180) 1.26

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1293	1293	1293	1293	1293	
5	1288	1287	1288	1287	1288	122
15	1245	1244	1244	1244	1245	351
25	1159	1156	1155	1156	1159	533
35	1034	1030	1028	1030	1034	644
45	873	869	866	869	873	671
55	686	681	677	681	686	607
65	445	441	439	441	445	442
75	248	244	244	244	248	259
85	69	67	71	67	69	79
90	4	8	24	8	4	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1007	27.1%	27.1%
0-40	1651	44.5%	44.5%
0-60	2928	78.9%	78.9%
0-90	3709	100.0%	100.0%
0-180	3710	100.0%	100.0%

Avg. Luminance (cd/m²)			
	0	90	180
0	4247	4247	4247
5	4247	4246	4247
15	4234	4230	4234
25	4199	4185	4199
35	4145	4120	4145
45	4056	4023	4056
55	3930	3879	3930
65	3461	3414	3461
75	3146	3096	3146
85	2604	2657	2604



Coefficients of Utilization %

Pc ---	80				70				50				0			
	70	50	30	10	70	50	30	10	50	30	10	0	50	30	10	0
Pw ---	0	119	119	119	119	116	116	116	111	111	111	100	111	111	111	100
1	109	104	99	96	106	101	98	97	94	91	83	83	94	91	83	83
2	99	90	83	78	96	88	82	85	80	75	69	69	80	75	69	69
3	90	79	71	65	87	78	70	75	68	63	58	58	75	68	63	58
4	82	70	61	55	80	69	61	66	59	53	50	50	66	59	53	50
5	76	63	54	47	74	62	53	59	52	46	43	43	59	52	46	43
6	70	56	47	41	68	55	47	54	46	40	38	38	54	46	40	38
7	65	51	42	36	63	50	42	49	41	36	33	33	49	41	36	33
8	60	47	38	32	59	46	38	45	37	32	30	30	45	37	32	30
9	56	43	35	29	55	42	34	41	34	29	27	27	41	34	29	27
10	53	39	32	26	51	39	31	38	31	26	24	24	38	31	26	24

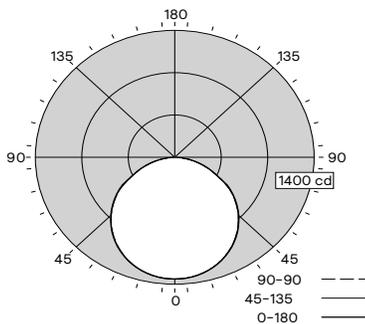
2FPZ38L840-2-DS-UNV-DIM

Luminaire Lumens 3857
Luminaire Efficacy Rating (LER) 129
Total Luminaire Watts 29.8
Spacing Criterion (0-180) 1.27

Candela Distribution						Flux
	0	22.5	45	67.5	90	Lumens
0	1344	1344	1344	1344	1344	
5	1339	1337	1339	1337	1339	127
15	1294	1292	1293	1292	1294	365
25	1204	1202	1201	1202	1204	554
35	1074	1071	1068	1071	1074	670
45	908	904	901	904	908	697
55	713	708	705	708	713	632
65	463	459	456	459	463	461
75	257	253	252	253	257	269
85	71	69	71	69	71	81
90	4	8	22	8	4	

Zonal Lumen Summary			
Zone	Lumens	%Fixture	%Lamp
0-30	1046	27.1%	27.1%
0-40	1716	44.5%	44.5%
0-60	3045	78.9%	78.9%
0-90	3856	100.0%	100.0%
0-180	3857	100.0%	100.0%

Avg. Luminance (cd/m²)			
	0	90	180
0	4413	4413	4413
5	4415	4413	4415
15	4400	4397	4400
25	4363	4351	4363
35	4307	4283	4307
45	4216	4185	4216
55	4084	4035	4084
65	3594	3543	3594
75	3256	3203	3256
85	2676	2679	2676



Coefficients of Utilization %

Pc ---	80				70				50				0			
	70	50	30	10	70	50	30	10	50	30	10	0	50	30	10	0
Pw ---	0	119	119	119	119	116	116	116	111	111	111	100	111	111	111	100
1	109	104	99	96	106	102	98	97	94	91	83	83	94	91	83	83
2	99	90	83	78	96	88	82	85	80	75	69	69	80	75	69	69
3	90	79	71	65	87	78	70	75	68	63	58	58	75	68	63	58
4	82	70	61	55	80	69	61	66	59	53	50	50	66	59	53	50
5	76	63	54	47	74	62	53	59	52	46	43	43	59	52	46	43
6	70	56	47	41	68	55	47	54	46	40	38	38	54	46	40	38
7	65	51	42	36	63	50	42	49	41	36	33	33	49	41	36	33
8	60	47	38	32	59	46	38	45	37	32	30	30	45	37	32	30
9	56	43	35	29	55	42	34	41	34	29	27	27	41	34	29	27
10	53	39	32	26	51	39	31	38	31	26	24	24	38	31	26	24

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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LIGHTOLIER BY SIGNIFY
Model Number : M6RDL259CSWCLZ10U/ 6RNSR

Type :
D

LIGHTOLIER

Downlighting

ModuLyte LED

M4R, M6R & M8R Downlights



ModuLyte LED 4", 6" & 8" downlights provide the optimal balance of field flexibility, performance, and commercial appeal. Light engines are designed to be installed without need of frames making ModuLyte flexible to accommodate new construction, remodel, and retrofit applications. Field selectable correlated color temperature and lumens in addition to field installable optics including wall wash allow ModuLyte to adapt to a variety of applications such as office, institution, healthcare, retail, and public.

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Qty: _____
 Notes: _____

Complete luminaire = Frame (optional) + Engine/Trim + Accessories (optional)

Engine

switchable example: M6RDL259CSWCDZ10U
fixed example: M6RDL25F935WCDZ10U

Series	Styles	Lumens ⁴		CRI/CCT ⁴		Beam	Reflector	Flange	Dimming	Voltage	Options
M4R 4" Round ¹ M6R 6" Round ² M8R 8" Round ²	DL Downlight LW Lensed Wall Wash ³	Selectable 10 500lm, 750lm, 1000lm 25 1500lm, 2000lm, 2500lm 40 3000lm, 3500lm, 4000lm ⁵ 50 4500lm, 5000lm ^{5,6}	Static 05F 500lm 07F 750lm 10F 1000lm 15F 1500lm 20F 2000lm 25F 2500lm 30F 3000lm 35F 3500lm 40F 4000lm 45F 4500lm 50F 5000lm	Selectable 9CS 2700K 3000K 3500K 4000K 5000K	Static 927 2700K 930 3000K 935 3500K 940 4000K 950 5000K	M Medium ⁷ W Wide	CL Specular clear CD Comfort clear diffuse	— White (matte) B Black (matte) P Polished (matches aperture)	Z10 0-10V 1%	U Universal 120/277V 3 347V ⁷	— None LC Chicago plenum ⁷ AT Air-tite (factory-installed trim flange gasket) ⁸ EM6R Emergency battery pack w/ remote test switch ⁹ EM6I Emergency battery pack w/ integral test switch to trim ¹⁰
				All options are 90CRI with Accurender		M Medium ⁷ W Wide	WH White (matte) BK Black (matte)	— White (matte) B Black (matte)			

Accessories

Lensed wall wash optic M4RLW 4" round M6RLW 6" round M8RLW 8" round	New construction frame with 24" telescoping bar hangers 4RNSR 4" round 6RNSR 6" round 8RNR 8" round	Medium beam diffuser lens M4MED 4" round M6MED 6" round M8MED 8" round	Goof ring White (matte) M4GRW 4" round M6GRW 6" round M8GRW 8" round	Field-installed emergency Accessory MLEM6 Bodine 6" BSL06 battery pack kit for field-installation with ModuLyte engines. Includes mounting plate for remote switch.	Round Cylinders field-installable accessories for use with Stock Ready light engines¹¹ M4CRW 4" cylinder, white M4CRB 4" cylinder, black M6CRW 6" cylinder, white M6CRB 6" cylinder, black	Interact Ready System Bridge accessory SBA System Bridge (refer to Philips System Bridge Accessory specification sheet for options and details)

- IC rated up to 1500lm.
- IC rated up to 2000lm.
- Integral lensed wall wash optic installed. Order with wide (W) beam only. May also be field installed with M_RLW accessory with DL style light engine/trim.
- Select either selectable or fixed options for both lumens and CRI/CCT. Must be consistent with selectable or fixed for both lumens and CRI/CCT.
- The 4000, 4500, and 5000lm flux are marked spacings. Refer to page 7 for details.
- Available only with M6 and M8.
- The 347V (3) and LC (Chicago plenum) options not available with EM6R and EM6I emergency options.
- Stock Ready light engines include factory-installed gasket and are AirSeal in compliance with ASTM E283. All other configurations require air-tite (AT) option to be selected for factory-installed gasket.
- Factory installed Bodine BSL06 6W battery pack for remote mount test switch. Ceiling mounting plate included. May also be field installed with MLEM6 accessory.
- Factory installed Bodine BSL06 6W battery pack for mounting test switch integrally to trim.
- 3000lm maximum flux for both sizes. Must order CACK or CASK accessory when cylinders are pendant mounted. Cylinders not available for use with EM options or accessories.

Pendant accessories (field adjustable) ex: CASK36BK

Series	Mounts	Length	Finish
CA			
CA Calculte Accessory	SK Stem Kit	36 36 in. 48 48 in. 60 60 in. 72 72 in.	WH White (matte) BK Black (matte)
	CK Cable Kit	10 120 in.	WH White (matte) BK Black (matte)





M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

Frame (optional)

New Construction Frames (optional): 4RNSR, 6RNSR, 8RNSR frames may be used to suit new construction installation as required to best accommodate placement of ceiling holes. All wiring is done on the integral junction box to the light engine.

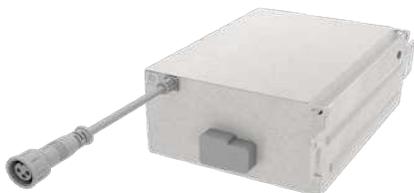
- All metal construction with galvanized finish for corrosion protection.
- Integrated 24" - 7/4" telescoping bar hangers.
 - Integral nail and joist alignment tab for wood construction. Holes oriented for using screws (by others).
 - Notch for t-bar attachment with integral locking mechanism.



Construction

- Trim includes integral self-flange with tapered profile for leveling to ceiling plane.
- Die cast aluminum heat sink manages thermal load over spectrum for product longevity.
- Stamped and heat treated leaf springs designed for easy installation and maximized retention to the ceiling.
- Air-tite compliant to ASTM E283. Stock Ready configurations are supplied with factory-installed closed cell gaskets on the trim flange. All other configurations require air-tite (AT) option to be selected for factory-installed gasket.

Static lumen/CCT option



ModuLyte-spec-sheet-en 01/25 page 2 of 14

Optics

- Provides a physical 59° cutoff.
- Available in wide (4"/6"-80°, 8"-72°) beam for optimal spacing. Medium (4"/6"-68°, 8"-60°) field installable diffuser lens available.
- Precision spun all high grade aluminum reflectors available in anodized and painted finishes.
- Lens media may be removed in the field tool-free for easy installation of accessory diffusion media.
- Injection molded lensed wall wash optics. Replaces existing lens media holder with the standard product. Factory installed option or field installed accessory.

Quality of light

- Beam shaping diffuser lens to mitigate pixilation, enhance beam quality, and minimize color over angle.
- Color consistency: 3 SDCM typ. @ 2700K & 5000K CCT
- Accurender 90 CRI minimum.

Light Engine

Quick disconnect between the driver and light engine provides the following advantages:

- Junction box may be field wired in advance to better accommodate construction schedules.
- Light engine/trim may be installed at a later stage to protect the trim.
- Rated for direct contact with insulation (IC) - M4RDL to 1500lm, M6RDL & M8RDL to 2000lm
- Easy replacement of electronics at end of life with minimal wasted material and labor required.
- Lumen Maintenance: L80 at 72,000 hours.

Junction box

- Galvanized metal with captured cover that can be opened tool-free
- Three (3) 3/4" knock outs on the end for mains/dimming connections
- Two (2) 3/4" knock outs on the for connection of battery pack to primary and secondary side of driver. (field accessory or factory option)
- Mounting clips allow for direct mount to joist, or can be field modified to suspended t-bar (fasteners by others)
- Plenum rated CMP cable for secondary low voltage wiring between driver and engine. Integral quick disconnect allows for the engine and driver to be separated in the field for ease of installation and maintenance.
- Easy access switches allow for field selection of CCT (2700K-3000K-3500K-4000K-5000K) and lumens (refer to product selection matrix).
- Options for static lumens and correlated color temperature provided with factory-installed non-metallic cover over the driver switches. Engine will be labeled with corresponding static catalog code, and will include input wattage specific to static lumens selected.
- Chicago plenum (LC) variant includes plenum rated enclosed flexible conduit gasketed to the engine and driver box. Driver box assembly is sealed and gasketed for compliance.

Max ceiling thickness is 1.25" (31 mm). Ceiling cutout - see page 7

Driver

0-10v 1% (Z10) dimming:

- 120-277V, 50/60Hz 0-10v dimming to 1%
- 347V option, 60Hz 0-10v dimming to 1%
- Tested in compliance with NEMA77-2017 for temporal lighting artifacts (flicker)
- FCC CFR Title47 Part 15 Class A

Recommended 0-10v dimmers:

- Eaton slide SF10
- Eaton Decorator DF10
- Lutron® Diva DDTV
- Lutron® Nova T NTFTV
- Leviton® IllumaTech IP710

Emergency

- Bodine BSL06 6W battery pack w/ self-test/selfdiagnostic mounted on a separate junction box for mains/secondary wire splicing. Conduit connectors provided for attachment to mains and secondary side of AC driver box for splicing to cool LED circuit.
- EM6R - factory-installed option for remote mount test switch, provided with 4-3/8"x2-3/4" (109x69mm) white ceiling cover plate.
- EM6I - factory-installed option for test switch to be mounted direct to the reflector
- MLEM6 - field-installed accessory, includes white ceiling cover plate

Cylinder Accessories

- Designed for use with standard ModuLyte recessed light engines. Engine flange fits flush with the bottom rim of the cylinder for a clean appearance. See the ModuLyte cylinders specification sheet for factory-assembled cylinders with Stock Ready light engines.
- Robust extruded aluminum
- Painted finishes in matte white or black
- Includes mounting plates for surface or suspended mounting
- For suspension mounting, must be ordered with matching CASK pendant stem or CACK cable canopy kits (see page 1).
- Up to 3000lm maximum flux.
- Not available with EM options. May be used with LCELIS10 10W field-installed inverter.

Labels and Listings

• cULus listed for wet locations with covered ceilings

- Air-tight compliant to ASTM E-283
- CCEA (frames with *LC suffix)
- RoHS certified
- Engines are Energy star certified, visit energystar.gov to find a full list of configurations on the qualified product list

Warranty

5 year limited warranty
Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LIGHTOLIER BY SIGNIFY
Model Number : M6RDL259CSWCLZ10U/ 6RNSR

Type :
D

M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

Accessories



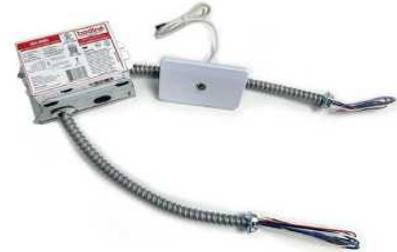
Lensed wall wash optics:
 M4RLW, M6RLW, M8RLW may be field installed to standard product quickly converting to asymmetric distribution.



Medium beam diffuser media:
 M4MED, M6MED, and M8MED may be field installed to the media holder supplied with the standard engine.



Oversized goof rings:
 M4GRW, M6GRW, M8GRW may be field installed over the integral trim flange to support ceiling coverage for new or retrofit construction. See ceiling cutout chart for retrofitting guidance.



Factory or Field-installed battery pack:
 Bodine BSL6 6W battery pack with self-test/self-diagnostic. Includes remote ceiling plate for test switch. Includes flexible conduit and connector to wire into secondary compartment of the light engine's junction box. To estimate lumen output in emergency mode, multiply emergency pack wattage by luminaire configuration efficacy, then by 1.1.



AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



Standard CRI 80
 Good color rendering and high efficacy



Standard CRI 90
 Better color rendering and low efficacy



AccuRender
 Best color rendering, color preference and high efficacy

Enjoy design flexibility

Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

Promote savings

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI¹
- Helps meet Title 24 requirements

Show your true colors

High color rendering:

- True to life colors that help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R_a up to 94 CRI R_r up to 92 TM-30
 R₉ up to 67 CRI R_{r,hi} up to 91 TM-30
 G_s up to 99 CRI R_g up to 100 TM-30
 C_s up to 94 CRI R_{cs,hi} up to -5% TM-30

Achieve color balance

Best in class color consistency:

- Promote aesthetic harmony in your space with ≤ 3 SDCM @ 2700K & 5000K



M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

interact

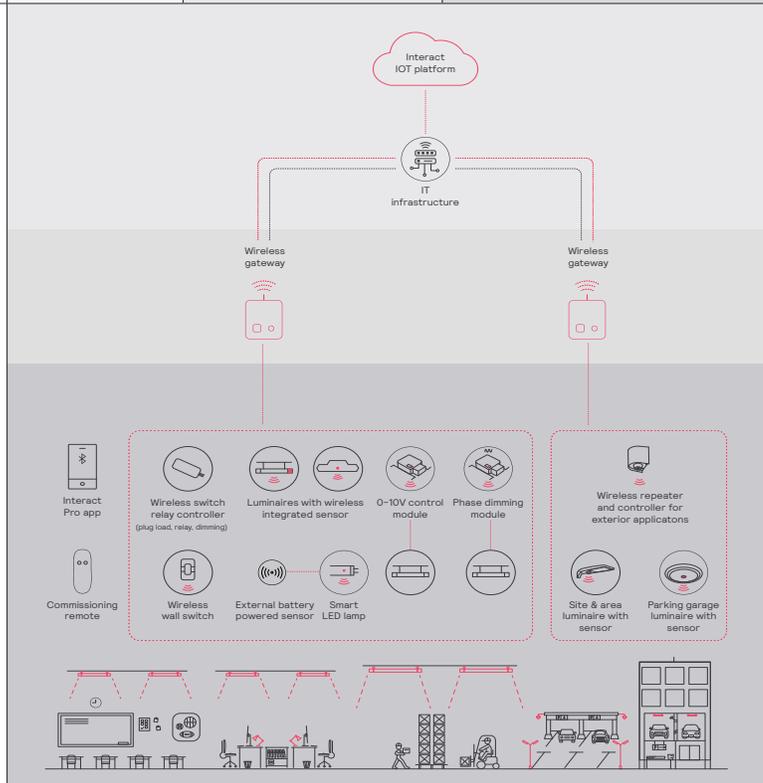
	Standalone	Gateway Connected	
		Option 1	Option 2
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
Correlated color temperature (CCT) tuning by switch	New ✓	✓	✓
Support for sensor-based Tunable White luminaires	New ✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• Luminaires with integrated sensors	150
• Smart TLEDs	150
• Zones + groups	64
Total number of ZGP devices (sensors and switches)	50
• Sensors	30
• Switches	50

Group level	
Recommended number of lights	40 (maximum 150)
Number of ZGP devices	5
Number of scenes	16





M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

Wireless controls options

Interact

- SWZCS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the standalone mode (similar to SpaceWise) when configured without a gateway or in a cloud connected mode if a compatible gateway is used.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote on-site to identify and group devices together.

Compatible with:

- SWS200 & UID8465 wireless scene switch
- Battery powered IP42 presence sensor OCC sensor IA CM WH 10/1
- Battery powered IP42 presence & daylight sensor OCC-DL sensor IA CM IP42 WH
- LCN3110: battery powered IP65 presence sensor, OCC sensor IA CM IP65W
- LCN3120: battery powered IP65 presence & daylight sensor, OCC-DL sensor IA CM IP65 WH
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Radio only sensor (RA or RADIO)

- Integral RA or RADIO only sensor simply enables wireless mesh connectivity to the luminaire without any occupancy or daylight sensing.
- Ideal for applications where sensing functionality is managed by other Interact devices and the luminaire only needs to have wireless connectivity.
- Interact includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non-gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely, identify and group devices together onsite.
- Compatible with SWS200 and UID8465 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact visit: interact-lighting.com/interactproscalablesystem

Sensor bundle (IAOSB or SB)

- A wireless IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- View all your projects under one dashboard and easily compare insights from multiple projects in one view.
- Compatible with SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1) and wireless Occupancy or Daylight & Occupancy sensors available. Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- IAOSB or SB option in addition to occupancy and daylights sensing supports advanced IoT capabilities, such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Requires compatible Gateway and internet connectivity for commissioning.
- For more information, visit: interact-lighting.com/interactproscalablesystem

Emergency Options (ER100)

- **Power Sensing** (factory default) – Recommended UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- **Power Interruption Detection** (field option) – Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact supported sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZigBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZigBee + Bluetooth	RADIO	RADIO	RA	RA
ZigBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZigBee + Highbay + Sensing	-	SWZCSH	-	-



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LIGHTOLIER BY SIGNIFY
Model Number : M6RDL259CSWCLZ10U/ 6RNSR

Type :
D

M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

Reflectors



Specular clear (CL): Most specular and most efficient finish, delivers maximum photometric performance but can produce a mirror image effect of the interior space.



Comfort clear diffuse (CD): Slightly diffuse clear finish, that eliminates iridescence and reduces the mirror image effect inherent with specular finishes.



White (WH): (matte) Brightest illuminated aperture and provides the smoothest transition to most ceilings when off (white is only available with a white flange).



Black (BK): (matte) Provides the lowest aperture brightness possible and significantly reduces source identification in a ceiling.

Flanges



White (-): (matte) Provides the smoothest transition to ceilings when off.



Polished (P): (matches aperture) Produces a continuous look throughout the reflector (aperture matching).

Stock Ready configurations

Catalog Number	UPC Code	Model Number	Description
ModuLyte LED 4" Round Downlight			
Wide beam - 1500/2000/2500lm 90CRI with 2700/3000/3500/4000/5000K CCTs			
M4RDL259CSWCLZ10U	190096192793	912401592618	CL/WH Z10 UNV
M4RDL259CSWCDZ10U	190096192809	912401592619	CD/WH Z10 UNV
M4RDL259CSWWHZ10U	190096192816	912401592620	WH/WH Z10 UNV
ModuLyte LED 6" Round Downlight			
Wide beam - 1500/2000/2500lm 90CRI with 2700/3000/3500/4000/5000K CCTs			
M6RDL259CSWCLZ10U	190096192823	912401592621	CL/WH Z10 UNV
M6RDL259CSWCDZ10U	190096192830	912401592622	CD/WH Z10 UNV
M6RDL259CSWWHZ10U	190096192847	912401592623	WH/WH Z10 UNV
Medium beam - 3000/3500/4000lm 90CRI with 2700/3000/3500/4000/5000K CCTs			
M6RDL409CSMCLZ10U	190096192854	912401592624	CL/WH Z10 UNV
M6RDL409CSMCDZ10U	190096192861	912401592625	CD/WH Z10 UNV
M6RDL409CSMWHZ10U	190096192878	912401592626	WH/WH Z10 UNV
ModuLyte LED 8" Round Downlight			
Wide beam - 1500/2000/2500lm 90CRI with 2700/3000/3500/4000/5000K CCTs			
M8RDL259CSWCLZ10U	190096192885	912401592627	CL/WH Z10 UNV
M8RDL259CSWCDZ10U	190096192892	912401592628	CD/WH Z10 UNV
M8RDL259CSWWHZ10U	190096192908	912401592629	WH/WH Z10 UNV
Medium beam - 3000/3500/4000lm 90CRI with 2700/3000/3500/4000/5000K CCTs			
M8RDL409CSMCLZ10U	190096192915	912401592630	CL/WH Z10 UNV
M8RDL409CSMCDZ10U	190096192922	912401592631	CD/WH Z10 UNV
M8RDL409CSMWHZ10U	190096192939	912401592632	WH/WH Z10 UNV

Cat. No.	UPC Code	Model Number	Description
ModuLyte LED 4" Accessories			
M4RLW	190096193134	912401592651	Lens Wall Wash Optics
M4MED	190096193165	912401592654	Medium Beam Optics
M4GRW	190096193189	912401592656	Goof Ring White
4RNSR	190096192526	912401592564	Frame SQ BH NJB
ModuLyte LED 6" Accessories			
M6RLW	190096193141	912401592652	Lens Wall Wash Optics
M6MED	190096193172	912401592655	Medium Beam Optics
M6GRW	190096193196	912401592657	Goof Ring White
6RNSR	190096192533	912401592565	Frame SQ BH NJB
ModuLyte LED 8" Accessories			
M8RLW	190096193158	912401592653	Lens Wall Wash Optics
M8MED	190096193226	912401592672	Medium Beam Optics
M8GRW	190096193202	912401592658	Goof Ring White
8RNR	190096192946	912401592635	Frame SQ BH NJB

Note: For the Canadian market, ModuLyte accessories (except frames) are quick ship make-to-order.



M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

Electrical - 4 inch

Light engine	Input Volts	Input Current	Drive Current	Input Power	LED Power	THD Factor	Power Factor
500lm	120V	0.05	0.1	5.8	4.1	<20	>0.9
	277V	0.02	0.1	5.9	4.1	<20	>0.9
	347V	0.02	0.1	6.2	4.1	<20	>0.9
750lm	120V	0.07	0.2	8.2	6.2	<20	>0.9
	277V	0.03	0.2	8.4	6.2	<20	>0.9
	347V	0.03	0.2	8.7	6.2	<20	>0.9
1000lm	120V	0.09	0.2	10.6	8.3	<20	>0.9
	277V	0.04	0.2	10.7	8.3	<20	>0.9
	347V	0.03	0.2	11.6	8.3	<20	>0.9
1500lm	120V	0.13	0.3	15.3	12.5	<20	>0.9
	277V	0.06	0.3	15.4	12.5	<20	>0.9
	347V	0.04	0.3	15.3	12.5	<20	>0.9
2000lm	120V	0.17	0.4	20.3	17.0	<20	>0.9
	277V	0.07	0.4	20.4	17.0	<20	>0.9
	347V	0.06	0.4	20.3	17.0	<20	>0.9
2500lm	120V	0.21	0.5	25.4	21.5	<20	>0.9
	277V	0.09	0.5	25.5	21.5	<20	>0.9
	347V	0.07	0.5	25.2	21.5	<20	>0.9
3000lm	120V	0.24	0.6	28.6	24.2	<20	>0.9
	277V	0.10	0.6	28.7	24.2	<20	>0.9
	347V	0.08	0.6	28.5	24.2	<20	>0.9
3500lm	120V	0.28	0.7	33.6	28.6	<20	>0.9
	277V	0.12	0.7	33.6	28.6	<20	>0.9
	347V	0.10	0.7	33.3	28.6	<20	>0.9
4000lm	120V	0.32	0.8	38.5	32.9	<20	>0.9
	277V	0.14	0.8	38.6	32.9	<20	>0.9
	347V	0.11	0.8	38.1	32.9	<20	>0.9

Electrical - 6 & 8 inch

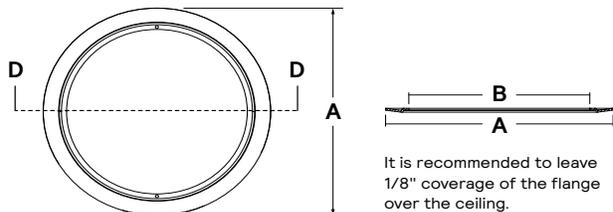
Light engine	Input Volts	Input Current	Drive Current	Input Power	LED Power	THD Factor	Power Factor
500lm	120V	0.05	0.1	5.9	4.2	<20	>0.9
	277V	0.02	0.1	6.1	4.2	<20	>0.9
	347V	0.02	0.1	6.4	4.2	<20	>0.9
750lm	120V	0.07	0.2	8.3	6.3	<20	>0.9
	277V	0.03	0.2	8.4	6.3	<20	>0.9
	347V	0.03	0.2	8.8	6.3	<20	>0.9
1000lm	120V	0.09	0.2	10.8	8.4	<20	>0.9
	277V	0.04	0.2	10.9	8.4	<20	>0.9
	347V	0.03	0.2	11.8	8.4	<20	>0.9
1500lm	120V	0.13	0.3	15.4	12.6	<20	>0.9
	277V	0.06	0.3	15.5	12.6	<20	>0.9
	347V	0.04	0.3	15.5	12.6	<20	>0.9
2000lm	120V	0.17	0.4	20.4	17.1	<20	>0.9
	277V	0.07	0.4	20.5	17.1	<20	>0.9
	347V	0.06	0.4	20.4	17.1	<20	>0.9
2500lm	120V	0.21	0.5	25.5	21.6	<20	>0.9
	277V	0.09	0.5	25.6	21.6	<20	>0.9
	347V	0.07	0.5	25.3	21.6	<20	>0.9
3000lm	120V	0.24	0.6	29.3	24.8	<20	>0.9
	277V	0.11	0.6	29.4	24.8	<20	>0.9
	347V	0.08	0.6	29.2	24.8	<20	>0.9
3500lm	120V	0.28	0.7	34.1	29.1	<20	>0.9
	277V	0.12	0.7	34.1	29.1	<20	>0.9
	347V	0.10	0.7	33.8	29.1	<20	>0.9
4000lm	120V	0.33	0.8	39.0	33.4	<20	>0.9
	277V	0.14	0.8	39.1	33.4	<20	>0.9
	347V	0.11	0.8	38.6	33.4	<20	>0.9
4500lm	120V	0.37	0.9	44.8	38.7	<20	>0.9
	277V	0.16	0.9	44.8	38.7	<20	>0.9
	347V	0.13	0.9	44.5	38.7	<20	>0.9
5000lm	120V	0.42	1.0	49.8	43.0	<20	>0.9
	277V	0.18	1.0	49.7	43.0	<20	>0.9
	347V	0.14	1.0	49.0	43.0	<20	>0.9

Marked spacing applications

Light engine	4000lm	4500lm	5000lm
M4R	X		
M6R	X	X	X
M8R	X	X	X

- Light engines marked with an X require marked spacing:
- Center-to-center of adjacent luminaires: 24" (610mm)
 - Top of luminaire to overhead building member: 3" (75mm)
 - Luminaire center to side building member: 12" (305mm)

Goof ring



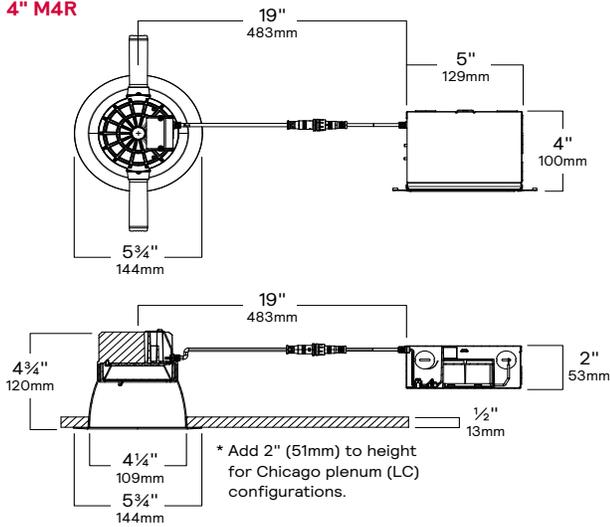
Size	A	B	Ceiling Cutout	
			Min (without goof ring)	Max (with goof ring)
M4GRW	7" (178mm)	5 3/8" (136mm)	4 1/8" (124mm)	5 3/4" (146mm)
M6GRW	8 3/4" (221mm)	6 7/8" (176mm)	6 3/8" (162mm)	7 1/2" (184mm)
M8GRW	10 3/4" (274mm)	9 1/8" (230mm)	8 3/8" (213mm)	9 1/4" (235mm)



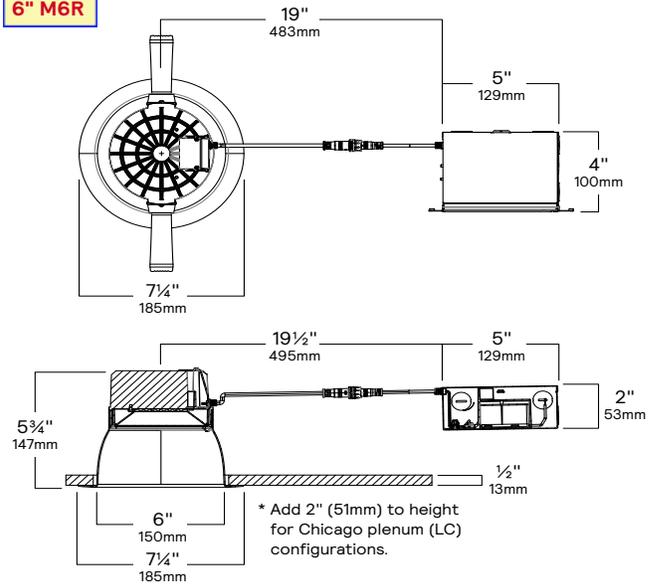
M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

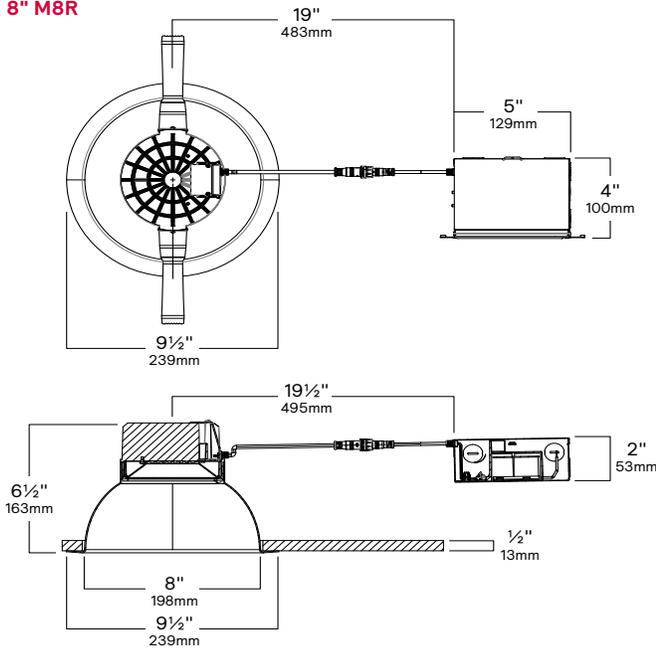
4" M4R



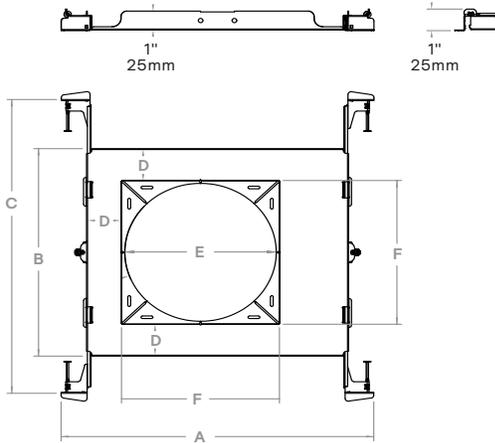
6" M6R



8" M8R



Frame (optional)



Size	A	B	C*	D	E	F
4RNSR	10 7/8" 276mm	7 1/4" 184mm	13 5/8" 345mm	1" 25mm	4 7/8" 124mm	5 1/4" 132mm
6RNSR	13 1/4" 334mm	9 5/8" 244mm	13 5/8" 345mm	1 1/2" 37mm	6 3/4" 162mm	5 5/8" 169mm
8RNR	13 1/4" 334mm	9 5/8" 244mm	13 5/8" 345mm	8" round apertured centered on frame		

* Maximum span is 24"



M4R/M6R/M8R ModuLyte LED

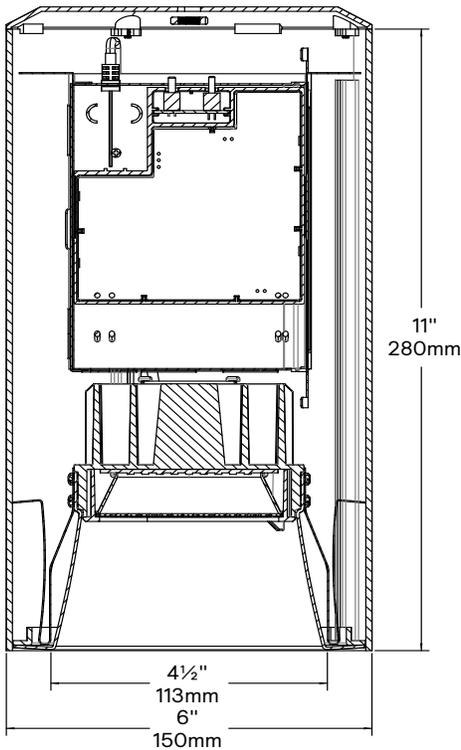
4", 6", & 8" Round Downlight

Cylinder Accessory Dimensions

Shown with recessed light engines installed.
 Engines are ordered & installed separately.
 Refer to ModuLyte cylinder specification sheet
 for details on ordering factory-installed engines.

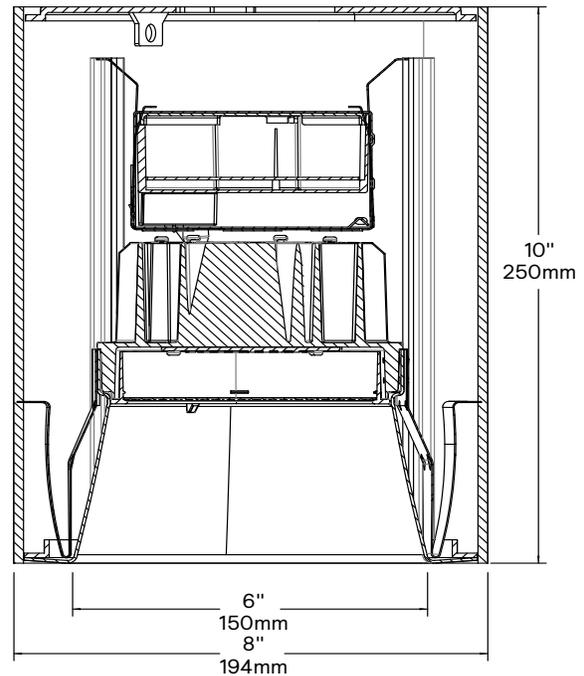
M4CR 4"

- Shown with pendant mount plate

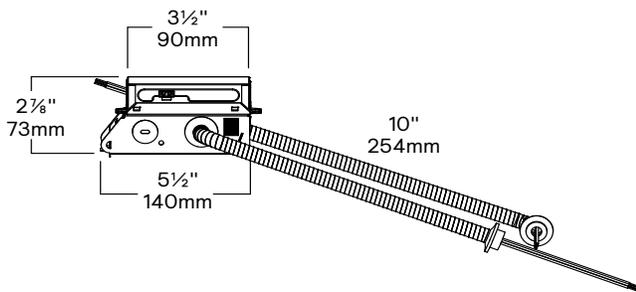


M6CR 6"

- Shown with surface mount plate



MLEM6



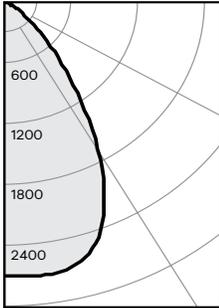


M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

4-inch, Medium beam, 2500lm Engine, 103lm/W at 25W

Candela Curve



M4RDL259CSMCLZ10U

Output lumens: 2625 lms
Input watts: 25.4 W
CRI: 90 min
CCT!: 5000K
Spacing Crit.: 1.04
Beam Angle: 65°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1562	59.5%
0-40	2162	82.4%
0-60	2601	99.1%
0-90	2625	100.0%

Angle	Mean CP	Lumens
0	2147	
5	2156	
10	2156	206
15	2104	
20	1961	589
25	1693	
30	1336	767
35	958	
40	645	600
45	399	
50	232	315
55	133	
60	69	124
65	18	
70	2	23
75	1	
80	0	1
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
8'	86	5.2'
9'	60	6.2'
10'	44	7.3'
12'	34	8.3'
14'	27	9.4'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	118.0	1.13
6'	77.0	0.74
7'	55.0	0.53
8'	46.0	0.44
9'	37.0	0.35

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 103.3lm/W
Report#: M4RDL259CSMCL-5000K.ies*

Adjustment factors

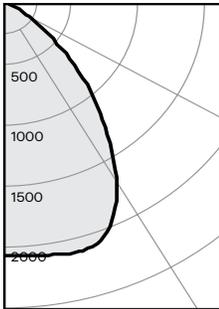
Finish	CCT (90CRI) *	Lumens			
CL = 100%	5000K = 100%	4000lm = 160%	2000lm = 80%		
CD = 97%	4000K = 99%	3500lm = 142%	1500lm = 60%		
WH = 88%	3500K = 98%	3000lm = 120%	1000lm = 40%		
BK = 57%	3000K = 97%	2500lm = 100%	750lm = 30%		
	2700K = 93%		500lm = 20%		

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	113	110	107	105	108	103	104	100	100	97	92
	2	107	101	97	93	100	92	96	90	93	88	84
	3	100	93	88	83	92	83	89	81	87	80	77
	4	95	86	80	75	85	75	83	74	81	73	71
	5	89	80	73	69	79	68	77	68	75	67	65
	6	84	74	68	63	73	63	72	62	70	62	60
	7	79	69	62	58	68	58	67	57	66	57	55
	8	75	65	58	53	64	53	63	53	62	53	51
	9	71	60	54	50	60	50	59	49	58	49	48
	10	67	57	50	46	56	46	55	46	55	46	44

4-inch, Wide beam, 2500lm Engine, 105lm/W at 25W

Candela Curve



M4RDL259CSWCLZ10U

Output lumens: 2665 lms
Input watts: 25.4 W
CRI: 90 min
CCT!: 5000K
Spacing Crit.: 1.18
Beam Angle: 74°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1323	49.6%
0-40	1984	74.4%
0-60	2631	98.7%
0-90	2665	100.0%

Angle	Mean CP	Lumens
0	1649	
5	1652	
10	1663	158
15	1650	
20	1677	473
25	1649	
30	1519	692
35	1313	
40	1052	661
45	823	
50	577	447
55	371	
60	218	200
65	111	
70	15	32
75	3	
80	1	1
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
8'	66	5.9'
9'	46	7.1'
10'	34	8.3'
12'	26	9.4'
14'	20	10.6'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	118.0	1.13
6'	77.0	0.74
7'	55.0	0.53
8'	46.0	0.44
9'	37.0	0.35

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 104.9lm/W
Report#: M4RDL259CSWCL-5000K.ies*

Adjustment factors

Finish	CCT (90CRI) *	Lumens			
CL = 100%	5000K = 100%	4000lm = 160%	2000lm = 80%		
CD = 97%	4000K = 99%	3500lm = 142%	1500lm = 60%		
WH = 88%	3500K = 98%	3000lm = 120%	1000lm = 40%		
BK = 57%	3000K = 97%	2500lm = 100%	750lm = 30%		
	2700K = 93%		500lm = 20%		

Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
	70	50	30	10	50	10	50	10	50	10	0	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	112	109	106	104	107	102	103	99	99	96	91
	2	106	100	95	91	98	90	95	88	92	86	82
	3	99	91	85	81	90	80	87	79	84	77	74
	4	92	83	77	72	82	71	80	70	78	70	67
	5	87	77	70	64	76	64	74	64	72	63	61
	6	81	70	63	58	70	58	68	58	66	57	55
	7	76	65	58	53	64	53	63	53	62	52	50
	8	71	60	53	48	60	48	58	48	57	48	46
	9	67	56	49	44	55	44	54	44	53	44	42
	10	64	52	45	41	52	41	51	41	50	41	39

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

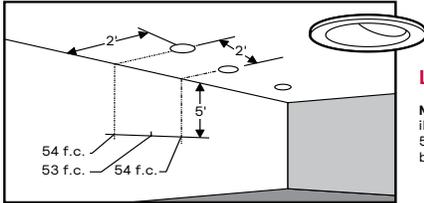


Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LIGHTOLIER BY SIGNIFY
Model Number : M6RDL259CSWCLZ10U/ 6RNSR

Type :
D

M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight



Lighting Data - Example

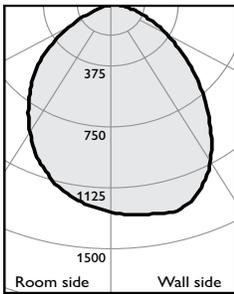
M4RDL259CSWCLZ10U-M4RLW
 illumination on the wall
 5' down from the ceiling is 54 f.c.
 beneath and 53 f.c. between fixtures.

Adjustment factors

Finish	CCT (90CRI) *	Lumens	
CL = 100%	5000K = 100%	4000lm = 160%	2000lm = 80%
CD = 97%	4000K = 99%	3500lm = 142%	1500lm = 60%
WH = 88%	3500K = 98%	3000lm = 120%	1000lm = 40%
BK = 57%	3000K = 97%	2500lm = 100%	750lm = 30%
	2700K = 93%		500lm = 20%

4-inch, Lensed Wall Wash, 2500lm Engine, 102lm/W at 27W

Candela Curve



M4RDL259CSWCLZ10U-M4RLW

Output lumens: 2700 lms
 Input watts: 26.5 W
 CRI: 90 min
 CCT¹: 5000K

Efficacy: 101.9 lm/w
 Report²: M4RDL259CSWCL-M4RLW-5000K.ies

Multiple unit data

Footcandles on wall

Distance from ceiling in feet	2' from wall		
	2' on ctr.		
1	65	64	65
2	105	104	105
3	96	95	96
4	74	73	74
5	54	53	54
6	39	38	39
7	29	29	29
8	22	22	22
9	17	17	17
10	14	14	14
12	12	12	12
14	10	10	10

Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	3' on ctr.		
1	21	20	21
2	41	40	41
3	48	47	48
4	45	46	45
5	38	39	38
6	31	32	31
7	25	26	25
8	20	21	20
9	16	17	16
10	13	14	13
12	11	12	11
14	10	10	10

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

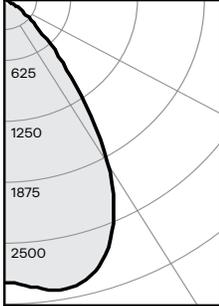


M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight

6-inch, Medium beam, 2500lm Engine, 114lm/W at 26W

Candela Curve



M6RDL259CSMCLZ10U

Output lumens: 2902 lms
Input watts: 25.5 W
CRI: 90 min
CCT: 5000K
Spacing Crit.: 1.08
Beam Angle: 65°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1761	60.7%
0-40	2427	83.6%
0-60	2880	99.2%
0-90	2902	100.0%

Angle	Mean CP	Lumens
0	2307	
5	2348	
10	2405	226
15	2365	
20	2211	662
25	1929	
30	1528	873
35	1063	
40	681	666
45	409	
50	239	325
55	140	
60	68	128
65	12	
70	2	20
75	1	
80	0	1
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
8'	92	5.4'
9'	64	6.5'
10'	47	7.6'
12'	36	8.6'
14'	28	9.7'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	128.0	1.13
6'	84.0	0.74
7'	60.0	0.53
8'	51.0	0.44
9'	40.0	0.35

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 113.8lm/W
Report#: M6RDL259CSMCL-5000K.ies*

Adjustment factors

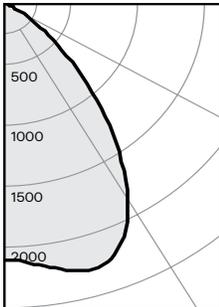
Finish	CCT (90CRI) *	Lumens			
CL = 100%	5000K = 100%	5000lm = 200%	2000lm = 80%		
CD = 99%	4000K = 99%	4000lm = 180%	1500lm = 60%		
WH = 90%	3500K = 98%	3500lm = 160%	1000lm = 40%		
BK = 58%	3000K = 97%	3000lm = 120%	750lm = 30%		
	2700K = 93%	2500lm = 100%	500lm = 20%		

Coefficients of utilization

Ceiling	80%				70%				50%				30%				0%																																																																																																																														
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10																																																																																																																											
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10																																																																																																																											
RCR	Zonal cavity method - Effective floor reflectance = 20%																																																																																																																																														
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	100	1	113	101	97	105	108	103	104	100	100	97	92	2	107	101	97	93	100	92	96	90	96	90	93	88	85	3	101	94	88	84	92	83	90	82	87	81	78	78	4	95	87	81	76	85	75	83	75	81	74	71	71	5	89	80	74	69	79	69	77	68	76	68	65	65	6	84	75	68	63	74	63	72	63	71	62	60	60	7	80	70	63	58	69	58	67	58	66	58	56	56	8	75	65	58	54	64	54	63	54	62	53	52	52	9	71	61	54	50	60	50	59	50	58	50	48	48	10	68	57	51	47	57	47	56	46	55	46	45	45

6-inch, Wide beam, 2500lm Engine, 113lm/W at 26W

Candela Curve



M6RDL259CSWCLZ10U

Output lumens: 2892 lms
Input watts: 25.6 W
CRI: 90 min
CCT: 5000K
Spacing Crit.: 1.28
Beam Angle: 73°

Zonal summary

Zone	Lumens	%Luminaire
0-30	1446	50.0%
0-40	2188	75.7%
0-60	2864	99.0%
0-90	2892	100.0%

Angle	Mean CP	Lumens
0	1679	
5	1707	
10	1763	165
15	1690	
20	1813	512
25	1804	
30	1687	769
35	1476	
40	1192	742
45	903	
50	616	478
55	382	
60	217	198
65	96	
70	12	27
75	2	
80	1	1
85	0	
90	0	0

Single unit data

Height to lighted plane	Initial center beam foot-candles	Beam diameter (ft)*
8'	67	6.3'
9'	47	7.6'
10'	34	8.8'
12'	26	10.1'
14'	21	11.3'

* Beam diameter is where foot-candles drop to 50% of maximum.

Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq. ft.
5'	128.0	1.13
6'	84.0	0.74
7'	60.0	0.53
8'	51.0	0.44
9'	40.0	0.35

38' x 38' x 10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

Efficacy: 113.0lm/W
Report#: M6RDL259CSWCL-5000K.ies*

Adjustment factors

Finish	CCT (90CRI) *	Lumens			
CL = 100%	5000K = 100%	5000lm = 200%	2000lm = 80%		
CD = 99%	4000K = 99%	4000lm = 180%	1500lm = 60%		
WH = 90%	3500K = 98%	3500lm = 160%	1000lm = 40%		
BK = 58%	3000K = 97%	3000lm = 120%	750lm = 30%		
	2700K = 93%	2500lm = 100%	500lm = 20%		

Coefficients of utilization

Ceiling	80%				70%				50%				30%				0%																																																																																																																				
	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10																																																																																																																	
Wall	70	50	30	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10	50	10																																																																																																																	
RCR	Zonal cavity method - Effective floor reflectance = 20%																																																																																																																																				
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100	100	1	112	109	106	104	107	102	103	99	99	96	91	2	106	100	95	91	98	90	95	88	92	86	82	3	99	91	85	81	90	80	87	79	84	77	74	4	92	83	77	72	82	71	80	70	78	70	67	5	87	77	70	64	76	64	74	64	72	63	61	6	81	70	63	58	70	58	68	58	66	57	55	7	76	65	58	53	64	53	63	53	62	52	50	8	71	60	53	48	60	48	58	48	57	48	46	9	67	56	49	44	55	44	54	44	53	44	42	10	64	52	45	41	52	41	51	41	50	41	39

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

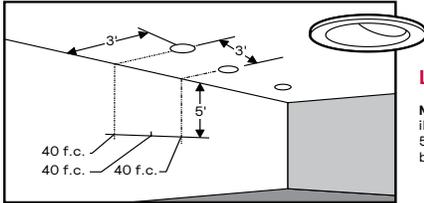


Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LIGHTOLIER BY SIGNIFY
Model Number : M6RDL259CSWCLZ10U/ 6RNSR

Type :
D

M4R/M6R/M8R ModuLyte LED

4", 6", & 8" Round Downlight



Lighting Data - Example

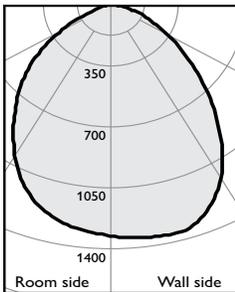
M6RDL259CSWCLZ10U-M6RLW
 illumination on the wall
 5' down from the ceiling is 40 f.c.
 beneath and 40 f.c. between fixtures.

Adjustment factors

Finish	CCT (90CRI) *	Lumens	
CL = 100%	5000K = 100%	5000lm = 200%	2000lm = 80%
CD = 99%	4000K = 99%	4000lm = 180%	1500lm = 60%
WH = 90%	3500K = 98%	3500lm = 160%	1000lm = 40%
BK = 58%	3000K = 97%	3000lm = 120%	750lm = 30%
	2700K = 93%	2500lm = 100%	500lm = 20%

6-inch, Lensed Wall Wash, 2500lm Engine, 102lm/W at 27W

Candela Curve



M6RDL259CSWCLZ10U-M6RLW

Output lumens: 2700 lms
 Input watts: 26.5 W
 CRI: 90 min
 CCT¹: 5000K

Efficacy: 101.9 lm/w
 Report²: M6RDL259CSWCL-M6RLW-5000K.ies

Multiple unit data

Footcandles on wall

Distance from ceiling in feet	3' from wall		
	3' on ctr.		
1	20	19	20
2	40	39	40
3	48	48	48
4	47	47	47
5	40	40	40
6	32	33	32
7	26	27	26
8	21	21	21
9	17	17	17
10	14	14	14
12	12	12	12
14	10	10	10

Multiple unit data

Footcandles on wall

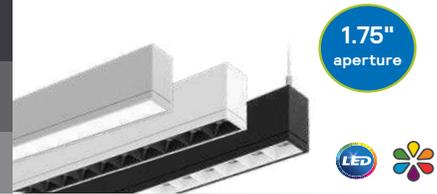
Distance from ceiling in feet	3' from wall		
	4' on ctr.		
1	17	14	17
2	33	29	33
3	39	37	39
4	38	37	38
5	32	32	32
6	27	27	27
7	22	22	22
8	18	18	18
9	15	15	15
10	12	13	12
12	11	11	11
14	9	9	9

1. Correlated Color Temperature within specs as defined in ANSI_NEMA_ANSI C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
 2. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L7



TruGroove surface micro louver drives performance beyond the edge. Innovative optics deliver exceptional uniformity and wide row spacing from a 1.75" aperture continuous line of light. Unique Quad Optic louver cells offer a wide range of options from graze to stack to asymmetric wall wash exceeding the demands of the most challenging spaces.

TruGroove surface micro louver includes AccuRender technology for the highest color quality at the highest efficacy

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Line ID: _____ Qty: _____
 Notes: _____

Ordering guide¹²

example: TM11L940QRPC230NNN08DS1NCWS, SF

Family	Version	Distribution	Source	CRI/CCT ^{1, 5, 8, 16}
TM	1	1	L	
TM TruGroove micro	1 Surface	1 Direct	L LED	950 CRI 90, 5000K 940 CRI 90, 4000K 935 CRI 90, 3500K
				930 CRI 90, 3000K 927 CRI 90, 2700K 9T2 CRI 90, 2700-6500K 2ch Tunable White (confirm controls)
Optics (Direct)	Lumens (Direct) ^{1,16}	Optics (Indirect)	Lumens (Indirect)	Run Length ⁷
Lens ¹⁶	Louver Cell (specify quad optics, color, length, position) ^{8,15}	Lens		
N No lens (specify direct louver optic) Q Performance symmetric batwing flush MesoOptics W Performance asymmetric/wall wash flush MesoOptics B Definition symmetric flush black L Definition symmetric flush silk D Definition symmetric drop silk Note: To specify a lens/louver combination please select both lens and louver options.	Quad Optic N No louver (specify direct lens optic) G Performance 17° graze beam w/MesoOptics R Performance 27° narrow beam w/MesoOptics M Performance 48° medium beam w/MesoOptics S Performance 63° stack beam w/MesoOptics Q Performance 61° symmetric batwing w/MesoOptics W Performance 20° asymmetric wall wash w/MesoOptics Color N None B Black W White P Platinum G Gold C Copper Length N None C 6in (3 cells) 1 1ft (6 cells) F Full length Position N None 1 One end 2 Both ends F Full length	NN None 40 4000 lm/4ft 35 3500 lm/4ft 30 3000 lm/4ft 25 2500 lm/4ft 20 2000 lm/4ft 15 1500 lm/4ft 10 1000 lm/4ft 07 700 lm/4ft	N None NN None	02 2ft C2 2.5ft C3 3ft C3 3.5ft 04 4ft 05 5ft 06 6ft 08 8ft XX Continuous run in 6" increments (please specify) Surface Patterns: A4 2ft x 2ft Flat Corner (90°)
Voltage ³	Driver ^{3, 5}	Circuit ^{2, 10, 11}	Wiring Option ^{2,3,6,10,13}	System/Controls ^{4, 9, 14}
D UNV 120-277V 3 347V	E Advance Xitanium 0-10V (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack E Auxiliary wiring G GTD (please specify voltage)	NN None
D UNV 120-277V	D Advance Xitanium DALI (5% Dim) H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)			
D UNV 120-277V	S Advance Xitanium SR (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack R UL924 sensor bypass relay	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
D UNV 120-277V	F Advance FlexTune SR (1% Dim) 2 0-10V 2ch (1% Dim) 6 DALI DT6 2ch (1% Dim) 8 DALI DT8 2ch (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
Finish	Mount Type			
W Standard white T Titanium silver B Black	G Graphite gray C Custom (please specify color)	SF Surface mounted		

See footnotes on page 2.

SPECIFY FINISH

DLC Note: Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L7

TruGroove surface micro louver

Ordering guide footnotes

1. Nominal values within a range. Not all lumen packages are available with all configurations. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
 2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.
 3. 347V not available with Battery Pack, GTD, DALI, Lutron EcoSystem or Sensor Ready drivers or Interact Pro options. Battery packs available in modules > 4ft (lumen package limits may apply, check with Ledalite).
 4. Interact Pro options require separate controls hardware by Signify.
 5. Tunable White options are available with 2ch 0-10V, DALI-2 (DT6 or DT8) drivers. Please enquire about options such as or DMX control (extended lead times may apply).
 6. Auxiliary Wiring not available with Interact Pro luminaires. Aux sections are wired to one fixture end only.
 7. Flat corners are 90°. No asymmetric lens optics in corners. Please enquire about options for custom angles and intersections. for 2ft D/I configurations please consult factory. (Extended lead times may apply for these options).
 8. Tunable White not available with Louver Cell Optics.
 9. Integral sensors only recommended at ends of runs for best aesthetics. Mid run sensors can be provided in remote mounts. Integral sensors not available with Drop Lens options. Please enquire about options for remote sensors. Sensors must be combined with a Sensor Ready driver options. Default sensor color is white, fixtures with black finish have black sensors. (Consult factory for other combinations). Other third party sensors also available, please enquire about options for Lutron Athena, or others.
 10. Luminaires are pre-wired to both ends with quick wire connectors at one end for standard circuit & battery pack trigger wire (if applicable). Each circuit has its own neutral conductor. All circuits are clearly labelled at each end.
 11. Thru Wire options can provide either one additional set of (4) power and dimming wires (Black/White/Purple/Pink or Brown) or one additional battery pack trigger wire (Orange) through a selected module, please consult factory for other Thru Wire options.
 12. Other options not shown here may also be possible via a custom request. Extended lead times and minimum order quantities may apply, please consult factory.
 13. UL924 listed sensor bypass relay is factory installed between driver & sensor. Must be ordered in same module as integral sensing option. Consult Ledalite for other options. Must be installed in conjunction with a UL1008 device.
 14. Must order IRT9015 Interact commissioning remote with each system order.
 15. Combination modules with Louver Cells and a Flush Lens may be specified by using the "Louver Cell Length" and "Louver Cell Position" options.
 16. Black Lens limits direct lumens to 700 or 1000lm/4ft and indirect lumens to a max of 3000lm/4ft. Tunable White only in MesoOptic, Flush Silk or Drop Silk lenses, consult photometry data for lumens options of chosen configuration.
- Note:** Due to continuing product improvements, Ledalite reserves the right to change the specifications without notice



Job Name: CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer: LEDALITE BY SIGNIFY

Model Number: TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF

Notes: SPECIFY FINISH

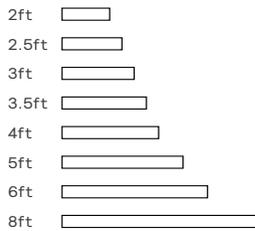
Type:
L7

TruGroove surface micro louver

Options and dimensions

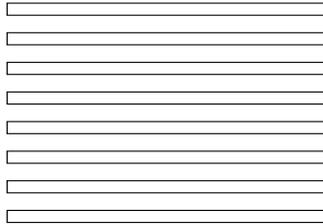
Standalone

Keep it simple with standalone modules, available in 8 standard lengths (consult Ledalite for custom lengths).



Continuous Run

Create an uninterrupted ribbon of light with continuous runs, specifiable to 6 in.



Patterns

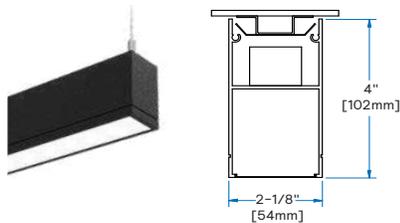
Seamlessly create any pattern imaginable (flat corners are 90°, contact Ledalite for custom angles and intersections).



Flush lens

TruGroove surface micro with 1.75" wide Flush MesoOptics or Silk lens.

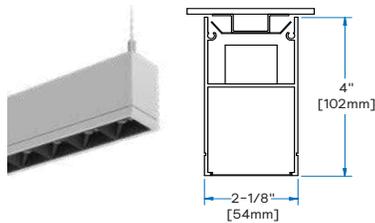
Direct



Louver

TruGroove surface micro with Ledalite's unique quad optic louver cells with MesoOptics in 6 distributions.

Direct



Louvers can be ordered at the full fixture length or in 6 in. or 1 ft sections at one or both ends of a fixture in combination with a lens.



Drop lens and black lens

TruGroove surface micro with drop lens and black lens options.





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

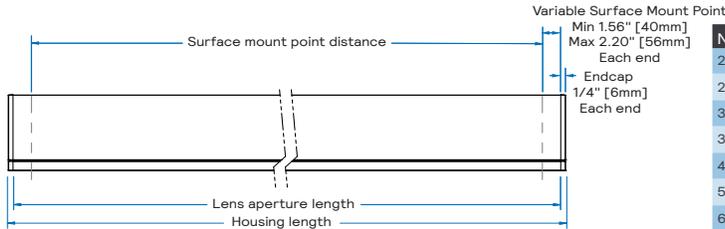
Type :
L7

TruGroove surface micro louver

Options and dimensions

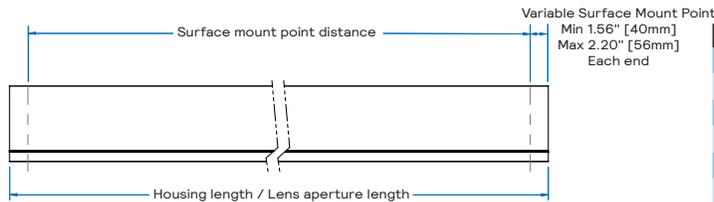
Side Views

Standalone



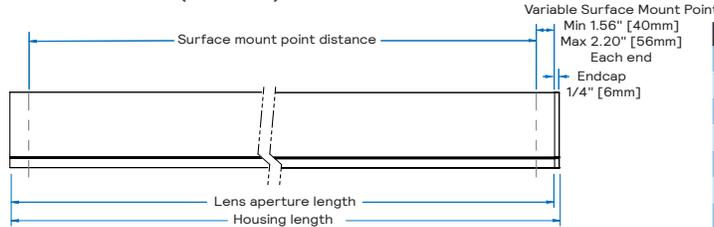
Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.5" [622mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.5" [775mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.5" [927mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.5" [1080mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.5" [1232mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.5" [1537mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.5" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	69.5" [2451mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Continuous Run (Mid-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.0" [610mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.0" [762mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.0" [914mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.0" [1067mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.0" [1219mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.0" [1524mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.0" [1829mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.0" [2438mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

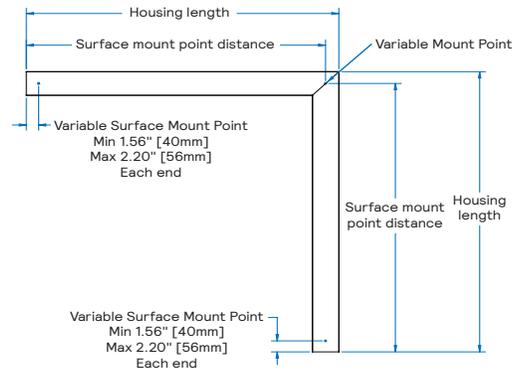
Continuous Run (End-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.25" [616mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.25" [768mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.25" [921mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.25" [1073mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.25" [1226mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.25" [1530mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.25" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.25" [2445mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Top View

Flat Corner 90°



Nominal	Housing	Surface Mount Point Distance
2ft x 2ft	25.1" [636mm]	23.80" ±0.2" [604 ±5mm]

Flat corners are 2ft x 2ft and can be used to create surface patterns. Flat corners are 90°, contact Ledalite for custom angles and intersections.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L7

TruGroove surface micro louver

Specifications

Optical System

Direct hemisphere: Light emitted from a linear array of downward-facing LEDs is laterally redirected using optical microstructures embedded in a layer of MesoOptics DX film to generate an optimal batwing distribution and a uniform continuum of light. The available Flush Silk Lens is a value-oriented option that provides a lambertian distribution while maintaining a uniform continuum of light.

Additionally, Ledalite's unique Quad Optic louver Cell provides 6 tailored optical distributions with reduced glare.

Housing

Post painted precision aluminum extrusion.

Endcaps

Diecast flat aluminum endcaps with integral groove to match housing.

Finish

High quality powder coated, available in standard Matte White, Black, Titanium Silver or Graphite Grey. TruGroove can also be specified in any custom color upon request for a one-time setup charge. Optional sensors (such as Interact Pro) available in white only.

Mounting

Surface: Fixture is mounted flush to surface using hidden brackets that attach to existing structure, variable between 0.6"-1.7" from end or joint.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Weight

Maximum 3.8/ft (surface mount), 10lb (2ft x 2ft surface mounted corner).

Electrical

Fixtures are factory pre-wired to section ends with quick-wire connectors and tested for all circuits and backup battery packs. LED boards and drivers are easily field replaceable with access from below the ceiling.

Standard Drivers

Advance Xitanium 0-10V, 1% Dimming.
Advance Xitanium DALI, 5% Dimming.
Advance Xitanium Sensor Ready, 1% Dimming.
Lutron EcoSystem LDE1, 1% Dimming with Soft-On and Fade-to-Black.
Class 2 rated output. Consult Ledalite for other available drivers.

Standard Battery Packs

Bodine Battery Pack, 90 min, 10W, Class 2 rated output.
Lumen output = 10W x luminaire efficacy x 1.1. Typical output ~1200lm.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-15. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is:
 $L_{80}(10k) > 60,000$ hours (Reported methodology).

Source Color

LEDs rated for color rendering of:
CRI $R_a \geq 90$, $R_g \geq 50$, $G_a \geq 97$, $C_g \geq 90$
IES TM-30-18 : $R_f \geq 90$, $R_{f,hi} \geq 89$, $R_g \geq 99$, $R_{cs,hi} \geq -5\%$

SPD and TM-30-18 reports available upon request

Fixture to fixture color accuracy within:

2 SDCM for Static White luminaires
3 SDCM for Tunable White luminaires

Approvals

Certified to UL, IES & CSA Standards.

Select TruGroove micro configurations contribute toward satisfying features L03, L04, L06, L07 and L08 under the WELL v2 Building Standard®.

Certain versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers.
www.designlights.org/QPL

TruGroove is Declare label certified. More information on the TruGroove label can be found on <https://declare.living-future.org/> and through the Declare ID **SGY-0007**.

Environment

Rated for dry or damp locations in operating ambient temperatures of 0-25°C (32-77°F).

Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur-based chemicals, petroleum-based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum-based solution or other contaminants are not covered under warranty. Not suitable for natatorium environments.

Warranty

Five-year luminaire limited warranty including LED boards and driver:
www.signify.com/warranties

QuickShip

10-day QuickShip available for most configurations upon request. More information available at:
www.signify.com/en-us/brands/ledalite/quickship



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L7

TruGroove surface micro louver

Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (CS an evolution of SpaceWise):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

Emergency Options (R):

- Power Sensing (Factory default) – Recommended
- UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (Field option)
- Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact Pro scalable sensor bundles for Enterprise tier (SB):

- SB option, in addition to occupancy and daylight sensing, supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning. For more information, visit: www.interact-lighting.com/office

Wired Controls Options

Tunable White:

- Control options for Tunable White with DALI (DT6 or DT8), 0-10V, or DMX control are available via an Engineered-to-Order (ETO) request.
- Signify tunable white solutions are designed to help maximize the influence of lighting on your daily life.
- Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Scene setting via lighting pre-sets based on various combinations of lighting color temperature and intensity.

Interact Pro scalable sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZeeBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZeeBee + Bluetooth	RADIO	RADIO	RA	RA
ZeeBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZeeBee + Highbay + Sensing	-	SWZCSH	-	-



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L7

TruGroove surface micro louver

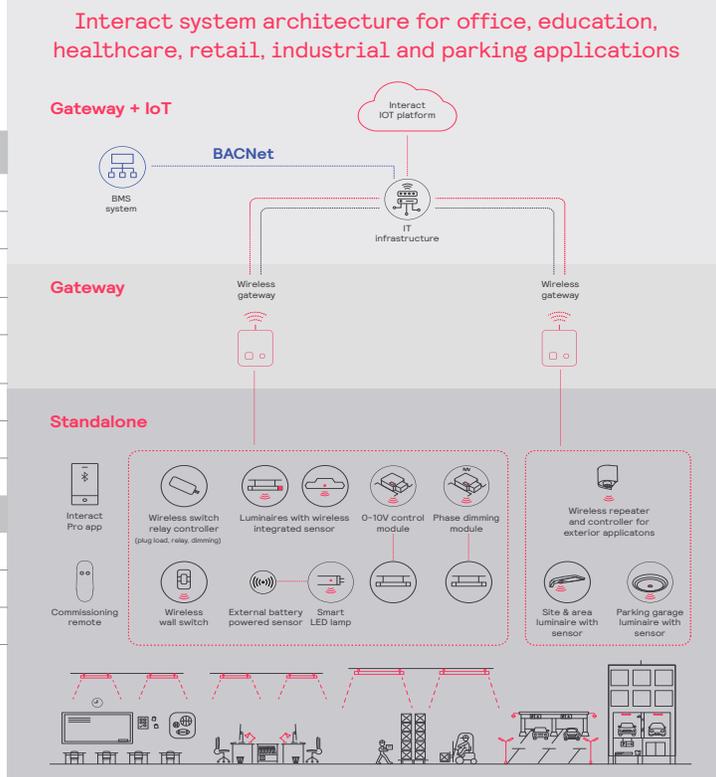
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L7

TruGroove surface micro louver

Colorimetry

TruGroove micro (TMxx) AccuRender Static White

Nominal CRI & CCT		CRI 90, 2700K	CRI 90, 3000K	CRI 90, 3500K	CRI 90, 4000K	CRI 90, 5000K
CIE 013.3-1995 ¹	CRI R _a	94	93	93	93	93
	R ₉	55	57	59	64	68
	G _a	99	99	99	99	99
	C _s	93	93	93	93	94
IES TM-30-18 ²	R _f	92	91	91	91	90
	R _{f,h1}	90	90	90	91	89
	R _g	100	100	99	100	100
	R _{cs,h1}	-6%	-5%	-6%	-5%	-5%
MDER ³		0.45	0.51	0.58	0.65	0.81

1. Color Rendering Index (CRI Ra) and Strong Red (R9) are calculated in accordance with CIE 013.3-1995. Color Gamut index (Ga) and red chroma Index (C9) are CIE based properties using the Global Lighting Association's calculation tool.
2. Fidelity Index (Rf), Red Fidelity Index (Rf.h1), Gamut Index (Rg), and Red Local Chroma Shift (Rcs.h1) are calculated in accordance with IES TM-30-18.
3. Melanopic Daylight Efficacy Ratio (MDER) is the measure for "spectral melanopic efficiency" as defined in CIE S 026-2018.

Photometry

The following pages contain photometry for TruGroove suspended micro with louvers.

Photometry for TruGroove suspended micro with Lens can be found by scanning the QR code or following the link: https://www.signify.com/api/assets/v1/file/Signify/content/b3b5c0da54fc4db38edaada3013a1b5a/TruGroove_Surface_Micro_Lens_SpecSheet_CST.pdf





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L7

TruGroove surface micro louver

Photometry

Direct (TM11) Performance 61° Symmetric Batwing w/ MesoOptics louver

Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	34.8	3,775	108.5	19.3	PDF	IES	3,862	111.0	19.4	PDF	IES	4,008	115.2	19.5	PDF	IES	4,052	116.4	19.6	PDF	IES	4,095	117.7	19.6	PDF	IES
3500	NA	30.1	3,288	109.2	18.8	PDF	IES	3,359	111.6	18.9	PDF	IES	3,490	115.9	19.1	PDF	IES	3,528	117.2	19.1	PDF	IES	3,564	118.4	19.1	PDF	IES
3000	NA	26.0	2,833	109.0	18.3	PDF	IES	2,891	111.2	18.4	PDF	IES	3,006	115.6	18.5	PDF	IES	3,039	116.9	18.6	PDF	IES	3,068	118.0	18.6	PDF	IES
2500	NA	21.1	2,348	111.3	17.7	PDF	IES	2,395	113.5	17.7	PDF	IES	2,493	118.2	17.9	PDF	IES	2,518	119.3	17.9	PDF	IES	2,543	120.5	18.0	PDF	IES
2000	NA	17.2	1,877	109.1	16.9	PDF	IES	1,915	111.3	17.0	PDF	IES	1,994	115.9	17.1	PDF	IES	2,012	117.0	17.1	PDF	IES	2,032	118.1	17.2	PDF	IES
1500	NA	13.4	1,421	106.0	15.9	PDF	IES	1,451	108.3	16.0	PDF	IES	1,512	112.8	16.1	PDF	IES	1,523	113.7	16.2	PDF	IES	1,539	114.9	16.2	PDF	IES
1000	NA	9.7	939	96.8	14.5	PDF	IES	958	98.8	14.6	PDF	IES	1,000	103.1	14.7	PDF	IES	1,006	103.7	14.7	PDF	IES	1,017	104.8	14.8	PDF	IES

Direct (TM11) Performance 63° Stack Beam w/ MesoOptics louver

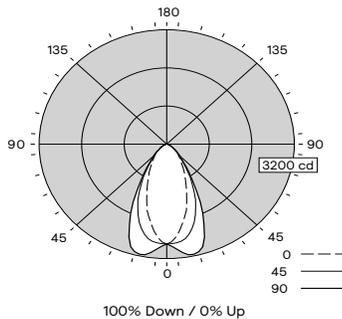
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	32.4	3,770	116.4	18.1	PDF	IES	3,853	118.9	18.2	PDF	IES	4,001	123.5	18.3	PDF	IES	4,046	124.9	18.4	PDF	IES	4,087	126.1	18.4	PDF	IES
3500	NA	28.2	3,289	116.6	17.6	PDF	IES	3,358	119.1	17.7	PDF	IES	3,490	123.8	17.8	PDF	IES	3,529	125.1	17.9	PDF	IES	3,563	126.3	17.9	PDF	IES
3000	NA	24.4	2,821	115.6	17.2	PDF	IES	2,879	118.0	17.2	PDF	IES	2,995	122.7	17.3	PDF	IES	3,026	124.0	17.3	PDF	IES	3,056	125.2	17.4	PDF	IES
2500	NA	19.9	2,346	117.9	16.5	PDF	IES	2,394	120.3	16.5	PDF	IES	2,491	125.2	16.7	PDF	IES	2,516	126.4	16.8	PDF	IES	2,541	127.7	16.7	PDF	IES
2000	NA	16.3	1,887	115.8	15.7	PDF	IES	1,926	118.2	15.9	PDF	IES	2,006	123.1	15.9	PDF	IES	2,023	124.1	15.9	PDF	IES	2,044	125.4	16.0	PDF	IES
1500	NA	12.6	1,400	111.1	14.7	PDF	IES	1,429	113.4	14.7	PDF	IES	1,489	118.2	14.9	PDF	IES	1,500	119.0	14.9	PDF	IES	1,516	120.3	14.9	PDF	IES
1000	NA	9.2	932	101.3	13.3	PDF	IES	950	103.3	13.3	PDF	IES	992	107.8	13.5	PDF	IES	997	108.4	13.5	PDF	IES	1,009	109.7	13.6	PDF	IES

Direct (TM11) Performance 20° Asymmetric Wall Wash w/ MesoOptics louver

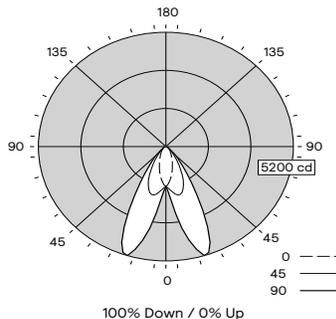
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,731	120.7	18.1	PDF	IES	3,812	123.4	18.2	PDF	IES	3,960	128.2	18.3	PDF	IES	4,004	129.6	18.3	PDF	IES	4,044	130.9	18.4	PDF	IES
3500	NA	27.0	3,251	120.4	17.6	PDF	IES	3,319	122.9	17.7	PDF	IES	3,451	127.8	17.8	PDF	IES	3,488	129.2	17.8	PDF	IES	3,522	130.4	17.9	PDF	IES
3000	NA	23.3	2,787	119.6	17.1	PDF	IES	2,843	122.0	17.1	PDF	IES	2,958	127.0	17.3	PDF	IES	2,989	128.3	17.3	PDF	IES	3,018	129.5	17.3	PDF	IES
2500	NA	19.1	2,339	122.5	16.5	PDF	IES	2,387	125.0	16.5	PDF	IES	2,485	130.1	16.7	PDF	IES	2,509	131.4	16.7	PDF	IES	2,533	132.6	16.7	PDF	IES
2000	NA	15.6	1,862	119.4	15.7	PDF	IES	1,901	121.9	15.7	PDF	IES	1,979	126.9	15.9	PDF	IES	1,996	127.9	15.9	PDF	IES	2,017	129.3	15.9	PDF	IES
1500	NA	12.2	1,404	115.1	14.7	PDF	IES	1,433	117.5	14.8	PDF	IES	1,494	122.5	14.9	PDF	IES	1,505	123.4	14.9	PDF	IES	1,521	124.7	15.0	PDF	IES
1000	NA	8.8	918	104.3	13.2	PDF	IES	936	106.4	13.3	PDF	IES	978	111.1	13.4	PDF	IES	983	111.7	13.4	PDF	IES	994	113.0	13.5	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4Hx8HxH and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

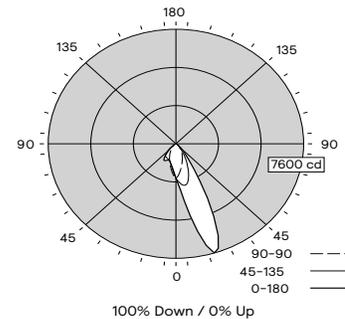
Performance 61° Symmetric Batwing MesoOptics louver
Spacing Criteria: 0.65/1.00



Performance 63° Symmetric Stack Beam MesoOptics louver
Spacing Criteria: 0.54/1.37



Performance 20° Asymmetric Wall Wash MesoOptics louver
Spacing Criteria: 1.29/0.59



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-07-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L7

TruGroove surface micro louver

Photometry

Direct (TM01) Performance 48° Medium Beam w/ MesoOptics louver

Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,828	123.9	15.7	PDF	IES	3,911	126.6	15.7	PDF	IES	4,063	131.5	15.9	PDF	IES	4,108	132.9	15.9	PDF	IES	4,150	134.3	16.0	PDF	IES
3500	NA	27.0	3,336	123.6	15.2	PDF	IES	3,405	126.1	15.3	PDF	IES	3,541	131.1	15.4	PDF	IES	3,579	132.6	15.4	PDF	IES	3,614	133.9	15.5	PDF	IES
3000	NA	23.3	2,860	122.7	14.7	PDF	IES	2,918	125.2	14.7	PDF	IES	3,036	130.3	14.9	PDF	IES	3,067	131.6	14.9	PDF	IES	3,097	132.9	14.9	PDF	IES
2500	NA	19.1	2,400	125.7	14.1	PDF	IES	2,449	128.2	14.1	PDF	IES	2,549	133.5	14.3	PDF	IES	2,574	134.8	14.3	PDF	IES	2,599	136.1	14.3	PDF	IES
2000	NA	15.6	1,911	122.5	13.3	PDF	IES	1,950	125.0	13.3	PDF	IES	2,031	130.2	13.5	PDF	IES	2,048	131.3	13.5	PDF	IES	2,069	132.6	13.5	PDF	IES
1500	NA	12.2	1,441	118.1	12.3	PDF	IES	1,471	120.6	12.4	PDF	IES	1,533	125.7	12.5	PDF	IES	1,544	126.6	12.5	PDF	IES	1,560	127.9	12.6	PDF	IES
1000	NA	8.8	942	107.0	10.8	PDF	IES	960	109.1	10.9	PDF	IES	1,003	114.0	11.0	PDF	IES	1,008	114.5	11.0	PDF	IES	1,020	115.9	11.1	PDF	IES

Direct (TM11) Performance 27° Narrow Beam w/ MesoOptic louver

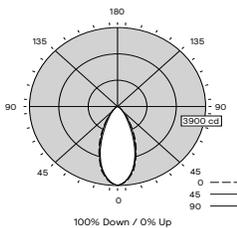
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,763	121.8	10.9	PDF	IES	3,844	124.4	11.0	PDF	IES	3,993	129.2	11.2	PDF	IES	4,038	130.7	11.2	PDF	IES	4,079	132.0	11.2	PDF	IES
3500	NA	27.0	3,279	121.4	10.5	PDF	IES	3,347	124.0	10.5	PDF	IES	3,480	128.9	10.7	PDF	IES	3,518	130.3	10.7	PDF	IES	3,552	131.6	10.7	PDF	IES
3000	NA	23.3	2,811	120.6	9.9	PDF	IES	2,868	123.1	10.0	PDF	IES	2,984	128.1	10.1	PDF	IES	3,015	129.4	10.2	PDF	IES	3,044	130.6	10.2	PDF	IES
2500	NA	19.1	2,359	123.5	9.3	PDF	IES	2,407	126.0	9.4	PDF	IES	2,506	131.2	9.5	PDF	IES	2,530	132.5	9.6	PDF	IES	2,555	133.8	9.6	PDF	IES
2000	NA	15.6	1,878	120.4	8.5	PDF	IES	1,917	122.9	8.6	PDF	IES	1,996	127.9	8.7	PDF	IES	2,013	129.0	8.8	PDF	IES	2,034	130.4	8.8	PDF	IES
1500	NA	12.2	1,416	116.1	7.6	PDF	IES	1,446	118.5	7.6	PDF	IES	1,507	123.5	7.8	PDF	IES	1,517	124.3	7.8	PDF	IES	1,534	125.7	7.8	PDF	IES
1000	NA	8.8	926	105.2	6.1	PDF	IES	944	107.3	6.1	PDF	IES	986	112.0	6.3	PDF	IES	991	112.6	6.3	PDF	IES	1,002	113.9	6.4	PDF	IES

Direct (TM11) Performance 17° Graze Beam w/ MesoOptic louver

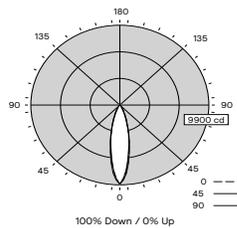
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,773	122.1	12.7	PDF	IES	3,855	124.8	12.7	PDF	IES	4,004	129.6	12.9	PDF	IES	4,049	131.0	12.9	PDF	IES	4,090	132.4	12.9	PDF	IES
3500	NA	27.0	3,288	121.8	12.2	PDF	IES	3,356	124.3	12.3	PDF	IES	3,490	129.3	12.4	PDF	IES	3,527	130.6	12.4	PDF	IES	3,562	131.9	12.5	PDF	IES
3000	NA	23.3	2,818	120.9	11.6	PDF	IES	2,876	123.4	11.7	PDF	IES	2,992	128.4	11.9	PDF	IES	3,023	129.7	11.9	PDF	IES	3,052	131.0	11.9	PDF	IES
2500	NA	19.1	2,366	123.9	11.0	PDF	IES	2,414	126.4	11.1	PDF	IES	2,513	131.6	11.3	PDF	IES	2,537	132.8	11.3	PDF	IES	2,562	134.1	11.3	PDF	IES
2000	NA	15.6	1,883	120.7	10.2	PDF	IES	1,922	123.2	10.3	PDF	IES	2,002	128.3	10.5	PDF	IES	2,019	129.4	10.5	PDF	IES	2,040	130.8	10.5	PDF	IES
1500	NA	12.2	1,420	116.4	9.3	PDF	IES	1,450	118.9	9.3	PDF	IES	1,511	123.9	9.5	PDF	IES	1,522	124.8	9.5	PDF	IES	1,538	126.1	9.5	PDF	IES
1000	NA	8.8	928	105.5	7.8	PDF	IES	946	107.5	7.9	PDF	IES	989	112.4	8.0	PDF	IES	994	113.0	8.0	PDF	IES	1,005	114.2	8.1	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4xHx8x1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

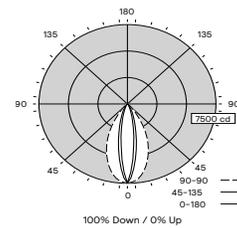
Performance Symmetric 48° Medium Beam MesoOptics louver Spacing Criteria: 0.75/0.70



Performance 27° Narrow Beam MesoOptics louver Spacing Criteria: 0.41/0.40



Performance 17° Graze Beam MesoOptics louver Spacing Criteria: 0.28/0.82



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.

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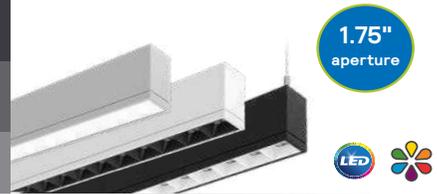
Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone: 800-668-9008

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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L8



TruGroove surface micro louver drives performance beyond the edge. Innovative optics deliver exceptional uniformity and wide row spacing from a 1.75" aperture continuous line of light. Unique Quad Optic louver cells offer a wide range of options from graze to stack to asymmetric wall wash exceeding the demands of the most challenging spaces.

TruGroove surface micro louver includes AccuRender technology for the highest color quality at the highest efficacy

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Line ID: _____ Qty: _____
 Notes: _____

Ordering guide¹²

example: TM11L940QRPC230NNN08DS1NCWS, SF

Family	Version	Distribution	Source	CRI/CCT ^{1, 5, 8, 16}
TM	1	1	L	
TM TruGroove micro	1 Surface	1 Direct	L LED	950 CRI 90, 5000K 940 CRI 90, 4000K 935 CRI 90, 3500K 930 CRI 90, 3000K 927 CRI 90, 2700K 9T2 CRI 90, 2700-6500K 2ch Tunable White (confirm controls)
Optics (Direct)	Lumens (Direct) ^{1,16}	Optics (Indirect)	Lumens (Indirect)	Run Length ⁷
Lens ¹⁶	Louvers Cell (specify quad optics, color, length, position) ^{8,15}	Lens		
N No lens (specify direct louver optic) Q Performance symmetric batwing flush MesoOptics W Performance asymmetric/wall wash flush MesoOptics B Definition symmetric flush black L Definition symmetric flush silk D Definition symmetric drop silk Note: To specify a lens/louvers combination please select both lens and louvers options.	Quad Optic N No louvers (specify direct lens optic) G Performance 17° graze beam w/MesoOptics R Performance 27° narrow beam w/MesoOptics M Performance 48° medium beam w/MesoOptics S Performance 63° stack beam w/MesoOptics Q Performance 61° symmetric batwing w/MesoOptics W Performance 20° asymmetric wall wash w/MesoOptics Color N None B Black W White P Platinum G Gold C Copper Length N None C 6in (3 cells) 1 1ft (6 cells) F Full length Position N None 1 One end 2 Both ends F Full length	NN None 40 4000 lm/4ft 35 3500 lm/4ft 30 3000 lm/4ft 25 2500 lm/4ft 20 2000 lm/4ft 15 1500 lm/4ft 10 1000 lm/4ft 07 700 lm/4ft	N None NN None	02 2ft C2 2.5ft 03 3ft C3 3.5ft 04 4ft 05 5ft 06 6ft 08 8ft XX Continuous run in 6" increments (please specify) Surface Patterns: A4 2ft x 2ft Flat Corner (90°)
Voltage ³	Driver ^{3, 5}	Circuit ^{2, 10, 11}	Wiring Option ^{2,3,6,10,13}	System/Controls ^{4, 9, 14}
D UNV 120-277V 3 347V D UNV 120-277V	E Advance Xitanium 0-10V (1% Dim) D Advance Xitanium DALI (5% Dim) H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack E Auxiliary wiring G GTD (please specify voltage)	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
D UNV 120-277V	S Advance Xitanium SR (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack R UL924 sensor bypass relay	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
D UNV 120-277V	F Advance FlexTune SR (1% Dim) 2 0-10V 2ch (1% Dim) 6 DALI DT6 2ch (1% Dim) 8 DALI DT8 2ch (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
Finish	Mount Type			
W Standard white T Titanium silver B Black G Graphite gray C Custom (please specify color)	SF Surface mounted			

See footnotes on page 2.

SPECIFY FINISH

DLC Note: Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L8

TruGroove surface micro louver

Ordering guide footnotes

1. Nominal values within a range. Not all lumen packages are available with all configurations. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
 2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.
 3. 347V not available with Battery Pack, GTD, DALI, Lutron EcoSystem or Sensor Ready drivers or Interact Pro options. Battery packs available in modules > 4ft (lumen package limits may apply, check with Ledalite).
 4. Interact Pro options require separate controls hardware by Signify.
 5. Tunable White options are available with 2ch 0-10V, DALI-2 (DT6 or DT8) drivers. Please enquire about options such as or DMX control (extended lead times may apply).
 6. Auxiliary Wiring not available with Interact Pro luminaires. Aux sections are wired to one fixture end only.
 7. Flat corners are 90°. No asymmetric lens optics in corners. Please enquire about options for custom angles and intersections. for 2ft D/I configurations please consult factory. (Extended lead times may apply for these options).
 8. Tunable White not available with Louver Cell Optics.
 9. Integral sensors only recommended at ends of runs for best aesthetics. Mid run sensors can be provided in remote mounts. Integral sensors not available with Drop Lens options. Please enquire about options for remote sensors. Sensors must be combined with a Sensor Ready driver options. Default sensor color is white, fixtures with black finish have black sensors. (Consult factory for other combinations). Other third party sensors also available, please enquire about options for Lutron Athena, or others.
 10. Luminaires are pre-wired to both ends with quick wire connectors at one end for standard circuit & battery pack trigger wire (if applicable). Each circuit has its own neutral conductor. All circuits are clearly labelled at each end.
 11. Thru Wire options can provide either one additional set of (4) power and dimming wires (Black/White/Purple/Pink or Brown) or one additional battery pack trigger wire (Orange) through a selected module, please consult factory for other Thru Wire options.
 12. Other options not shown here may also be possible via a custom request. Extended lead times and minimum order quantities may apply, please consult factory.
 13. UL924 listed sensor bypass relay is factory installed between driver & sensor. Must be ordered in same module as integral sensing option. Consult Ledalite for other options. Must be installed in conjunction with a UL1008 device.
 14. Must order IRT9015 Interact commissioning remote with each system order.
 15. Combination modules with Louver Cells and a Flush Lens may be specified by using the "Louver Cell Length" and "Louver Cell Position" options.
 16. Black Lens limits direct lumens to 700 or 1000lm/4ft and indirect lumens to a max of 3000lm/4ft. Tunable White only in MesoOptic, Flush Silk or Drop Silk lenses, consult photometry data for lumens options of chosen configuration.
- Note:** Due to continuing product improvements, Ledalite reserves the right to change the specifications without notice



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

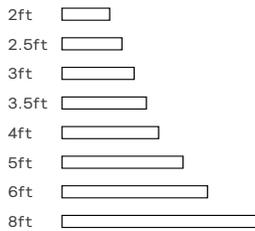
Type :
L8

TruGroove surface micro louver

Options and dimensions

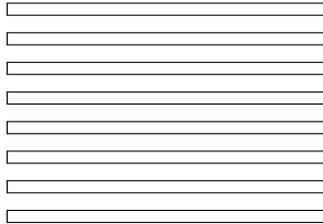
Standalone

Keep it simple with standalone modules, available in 8 standard lengths (consult Ledalite for custom lengths).



Continuous Run

Create an uninterrupted ribbon of light with continuous runs, specifiable to 6 in.



Patterns

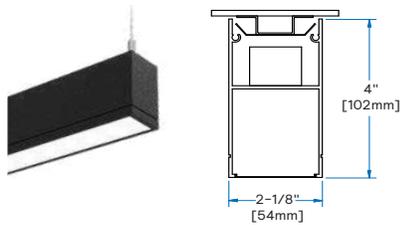
Seamlessly create any pattern imaginable (flat corners are 90°, contact Ledalite for custom angles and intersections).



Flush lens

TruGroove surface micro with 1.75" wide Flush MesoOptics or Silk lens.

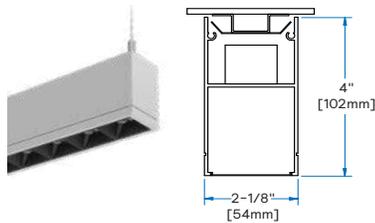
Direct



Louver

TruGroove surface micro with Ledalite's unique quad optic louver cells with MesoOptics in 6 distributions.

Direct



Louvers can be ordered at the full fixture length or in 6 in. or 1 ft sections at one or both ends of a fixture in combination with a lens.



Drop lens and black lens

TruGroove surface micro with drop lens and black lens options.





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

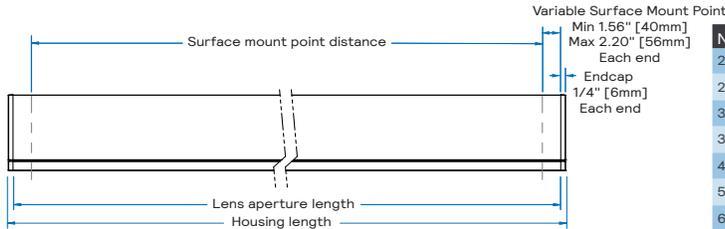
Type :
L8

TruGroove surface micro louver

Options and dimensions

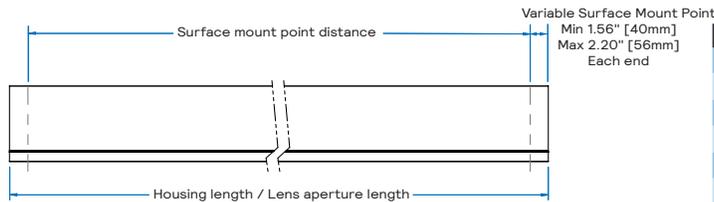
Side Views

Standalone



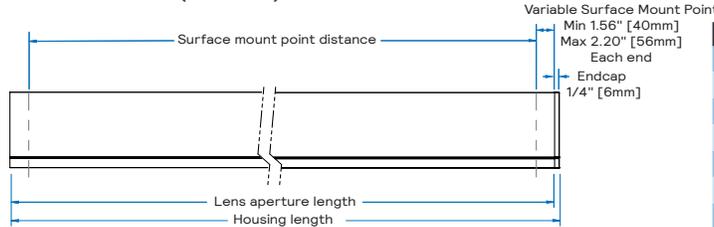
Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.5" [622mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.5" [775mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.5" [927mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.5" [1080mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.5" [1232mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.5" [1537mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.5" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	69.5" [2451mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Continuous Run (Mid-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.0" [610mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.0" [762mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.0" [914mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.0" [1067mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.0" [1219mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.0" [1524mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.0" [1829mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.0" [2438mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

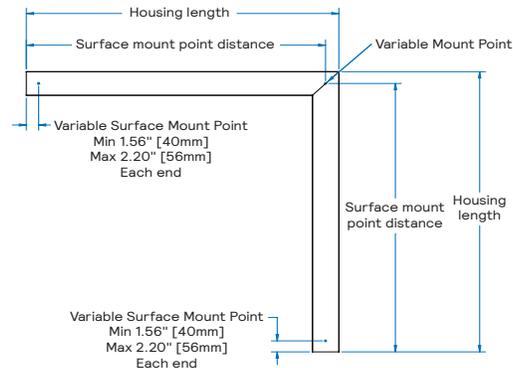
Continuous Run (End-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.25" [616mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.25" [768mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.25" [921mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.25" [1073mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.25" [1226mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.25" [1530mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.25" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.25" [2445mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Top View

Flat Corner 90°



Nominal	Housing	Surface Mount Point Distance
2ft x 2ft	25.1" [636mm]	23.80" ±0.2" [604 ±5mm]

Flat corners are 2ft x 2ft and can be used to create surface patterns. Flat corners are 90°, contact Ledalite for custom angles and intersections.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L8

TruGroove surface micro louver

Specifications

Optical System

Direct hemisphere: Light emitted from a linear array of downward-facing LEDs is laterally redirected using optical microstructures embedded in a layer of MesoOptics DX film to generate an optimal batwing distribution and a uniform continuum of light. The available Flush Silk Lens is a value-oriented option that provides a lambertian distribution while maintaining a uniform continuum of light.

Additionally, Ledalite's unique Quad Optic louver Cell provides 6 tailored optical distributions with reduced glare.

Housing

Post painted precision aluminum extrusion.

Endcaps

Diecast flat aluminum endcaps with integral groove to match housing.

Finish

High quality powder coated, available in standard Matte White, Black, Titanium Silver or Graphite Grey. TruGroove can also be specified in any custom color upon request for a one-time setup charge. Optional sensors (such as Interact Pro) available in white only.

Mounting

Surface: Fixture is mounted flush to surface using hidden brackets that attach to existing structure, variable between 0.6"-1.7" from end or joint.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Weight

Maximum 3.8/ft (surface mount), 10lb (2ft x 2ft surface mounted corner).

Electrical

Fixtures are factory pre-wired to section ends with quick-wire connectors and tested for all circuits and backup battery packs. LED boards and drivers are easily field replaceable with access from below the ceiling.

Standard Drivers

Advance Xitanium 0-10V, 1% Dimming.
Advance Xitanium DALI, 5% Dimming.
Advance Xitanium Sensor Ready, 1% Dimming.
Lutron EcoSystem LDE1, 1% Dimming with Soft-On and Fade-to-Black.
Class 2 rated output. Consult Ledalite for other available drivers.

Standard Battery Packs

Bodine Battery Pack, 90 min, 10W, Class 2 rated output.
Lumen output = 10W x luminaire efficacy x 1.1. Typical output ~1200lm.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-15. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is:
 $L_{80}(10k) > 60,000$ hours (Reported methodology).

Source Color

LEDs rated for color rendering of:
CRI $R_a \geq 90$, $R_g \geq 50$, $G_a \geq 97$, $C_g \geq 90$
IES TM-30-18 : $R_f \geq 90$, $R_{f,hi} \geq 89$, $R_g \geq 99$, $R_{cs,hi} \geq -5\%$

SPD and TM-30-18 reports available upon request

Fixture to fixture color accuracy within:

2 SDCM for Static White luminaires
3 SDCM for Tunable White luminaires

Approvals

Certified to UL, IES & CSA Standards.

Select TruGroove micro configurations contribute toward satisfying features L03, L04, L06, L07 and L08 under the WELL v2 Building Standard®.

Certain versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers.
www.designlights.org/QPL

TruGroove is Declare label certified. More information on the TruGroove label can be found on <https://declare.living-future.org/> and through the Declare ID **SGY-0007**.

Environment

Rated for dry or damp locations in operating ambient temperatures of 0-25°C (32-77°F).

Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur-based chemicals, petroleum-based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum-based solution or other contaminants are not covered under warranty. Not suitable for natatorium environments.

Warranty

Five-year luminaire limited warranty including LED boards and driver:
www.signify.com/warranties

QuickShip

10-day QuickShip available for most configurations upon request. More information available at:
www.signify.com/en-us/brands/ledalite/quickship



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :

L8

TruGroove surface micro louver

Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (CS an evolution of SpaceWise):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit:
www.interact-lighting.com/interactproscalablesystem

Emergency Options (R):

- Power Sensing (Factory default) – Recommended
- UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (Field option)
- Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact Pro scalable sensor bundles for Enterprise tier (SB):

- SB option, in addition to occupancy and daylight sensing, supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning. For more information, visit:
www.interact-lighting.com/office

Wired Controls Options

Tunable White:

- Control options for Tunable White with DALI (DT6 or DT8), 0-10V, or DMX control are available via an Engineered-to-Order (ETO) request.
- Signify tunable white solutions are designed to help maximize the influence of lighting on your daily life.
- Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Scene setting via lighting pre-sets based on various combinations of lighting color temperature and intensity.

Interact Pro scalable sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZeeBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZeeBee + Bluetooth	RADIO	RADIO	RA	RA
ZeeBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZeeBee + Highbay + Sensing	-	SWZCSH	-	-



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L8

TruGroove surface micro louver

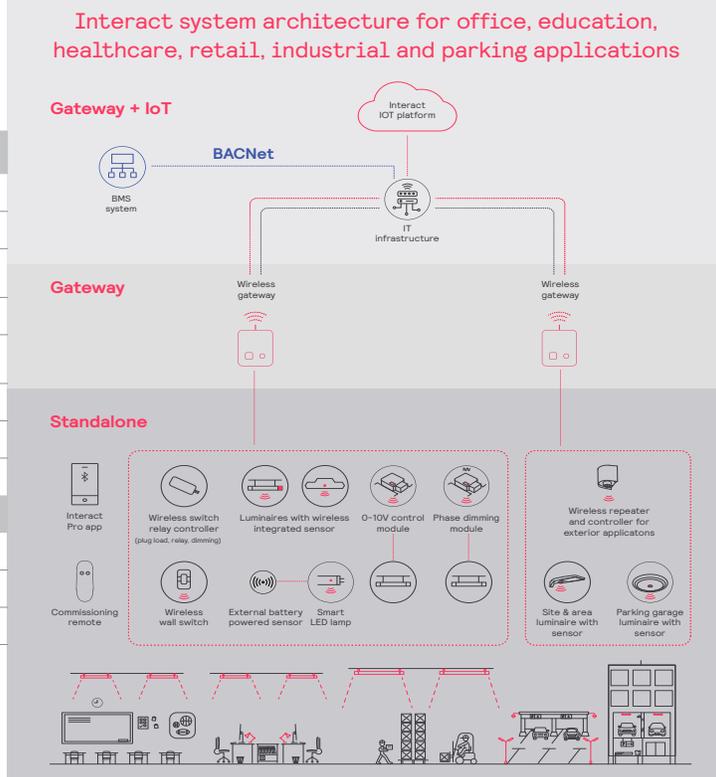
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDs	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L8

TruGroove surface micro louver

Colorimetry

TruGroove micro (TMxx) AccuRender Static White

Nominal CRI & CCT		CRI 90, 2700K	CRI 90, 3000K	CRI 90, 3500K	CRI 90, 4000K	CRI 90, 5000K
CIE 013.3-1995 ¹	CRI R _a	94	93	93	93	93
	R ₉	55	57	59	64	68
	G _a	99	99	99	99	99
	C _s	93	93	93	93	94
IES TM-30-18 ²	R _f	92	91	91	91	90
	R _{f,h1}	90	90	90	91	89
	R _g	100	100	99	100	100
	R _{cs,h1}	-6%	-5%	-6%	-5%	-5%
MDER ³		0.45	0.51	0.58	0.65	0.81

1. Color Rendering Index (CRI Ra) and Strong Red (R9) are calculated in accordance with CIE 013.3-1995. Color Gamut Index (Ga) and red chroma Index (C9) are CIE based properties using the Global Lighting Association's calculation tool.
 2. Fidelity Index (Rf), Red Fidelity Index (Rf,h1), Gamut Index (Rg), and Red Local Chroma Shift (Rcs,h1) are calculated in accordance with IES TM-30-18.
 3. Melanopic Daylight Efficacy Ratio (MDER) is the measure for "spectral melanopic efficiency" as defined in CIE S 026-2018.

Photometry

The following pages contain photometry for TruGroove suspended micro with louvers.

Photometry for TruGroove suspended micro with Lens can be found by scanning the QR code or following the link: https://www.signify.com/api/assets/v1/file/Signify/content/b3b5c0da54fc4db38edaada3013a1b5a/TruGroove_Surface_Micro_Lens_SpecSheet_CST.pdf





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L8

TruGroove surface micro louver

Photometry

Direct (TM11) Performance 61° Symmetric Batwing w/ MesoOptics louver

Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	34.8	3,775	108.5	19.3	PDF	IES	3,862	111.0	19.4	PDF	IES	4,008	115.2	19.5	PDF	IES	4,052	116.4	19.6	PDF	IES	4,095	117.7	19.6	PDF	IES
3500	NA	30.1	3,288	109.2	18.8	PDF	IES	3,359	111.6	18.9	PDF	IES	3,490	115.9	19.1	PDF	IES	3,528	117.2	19.1	PDF	IES	3,564	118.4	19.1	PDF	IES
3000	NA	26.0	2,833	109.0	18.3	PDF	IES	2,891	111.2	18.4	PDF	IES	3,006	115.6	18.5	PDF	IES	3,039	116.9	18.6	PDF	IES	3,068	118.0	18.6	PDF	IES
2500	NA	21.1	2,348	111.3	17.7	PDF	IES	2,395	113.5	17.7	PDF	IES	2,493	118.2	17.9	PDF	IES	2,518	119.3	17.9	PDF	IES	2,543	120.5	18.0	PDF	IES
2000	NA	17.2	1,877	109.1	16.9	PDF	IES	1,915	111.3	17.0	PDF	IES	1,994	115.9	17.1	PDF	IES	2,012	117.0	17.1	PDF	IES	2,032	118.1	17.2	PDF	IES
1500	NA	13.4	1,421	106.0	15.9	PDF	IES	1,451	108.3	16.0	PDF	IES	1,512	112.8	16.1	PDF	IES	1,523	113.7	16.2	PDF	IES	1,539	114.9	16.2	PDF	IES
1000	NA	9.7	939	96.8	14.5	PDF	IES	958	98.8	14.6	PDF	IES	1,000	103.1	14.7	PDF	IES	1,006	103.7	14.7	PDF	IES	1,017	104.8	14.8	PDF	IES

Direct (TM11) Performance 63° Stack Beam w/ MesoOptics louver

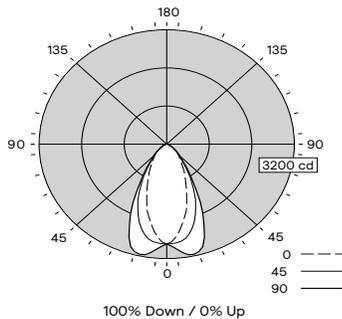
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	32.4	3,770	116.4	18.1	PDF	IES	3,853	118.9	18.2	PDF	IES	4,001	123.5	18.3	PDF	IES	4,046	124.9	18.4	PDF	IES	4,087	126.1	18.4	PDF	IES
3500	NA	28.2	3,289	116.6	17.6	PDF	IES	3,358	119.1	17.7	PDF	IES	3,490	123.8	17.8	PDF	IES	3,529	125.1	17.9	PDF	IES	3,563	126.3	17.9	PDF	IES
3000	NA	24.4	2,821	115.6	17.2	PDF	IES	2,879	118.0	17.2	PDF	IES	2,995	122.7	17.3	PDF	IES	3,026	124.0	17.3	PDF	IES	3,056	125.2	17.4	PDF	IES
2500	NA	19.9	2,346	117.9	16.5	PDF	IES	2,394	120.3	16.5	PDF	IES	2,491	125.2	16.7	PDF	IES	2,516	126.4	16.8	PDF	IES	2,541	127.7	16.7	PDF	IES
2000	NA	16.3	1,887	115.8	15.7	PDF	IES	1,926	118.2	15.9	PDF	IES	2,006	123.1	15.9	PDF	IES	2,023	124.1	15.9	PDF	IES	2,044	125.4	16.0	PDF	IES
1500	NA	12.6	1,400	111.1	14.7	PDF	IES	1,429	113.4	14.7	PDF	IES	1,489	118.2	14.9	PDF	IES	1,500	119.0	14.9	PDF	IES	1,516	120.3	14.9	PDF	IES
1000	NA	9.2	932	101.3	13.3	PDF	IES	950	103.3	13.3	PDF	IES	992	107.8	13.5	PDF	IES	997	108.4	13.5	PDF	IES	1,009	109.7	13.6	PDF	IES

Direct (TM11) Performance 20° Asymmetric Wall Wash w/ MesoOptics louver

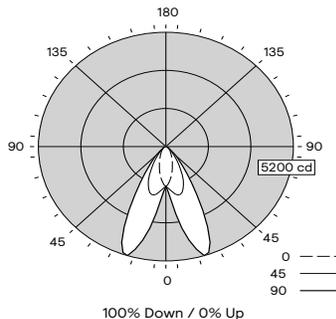
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,731	120.7	18.1	PDF	IES	3,812	123.4	18.2	PDF	IES	3,960	128.2	18.3	PDF	IES	4,004	129.6	18.3	PDF	IES	4,044	130.9	18.4	PDF	IES
3500	NA	27.0	3,251	120.4	17.6	PDF	IES	3,319	122.9	17.7	PDF	IES	3,451	127.8	17.8	PDF	IES	3,488	129.2	17.8	PDF	IES	3,522	130.4	17.9	PDF	IES
3000	NA	23.3	2,787	119.6	17.1	PDF	IES	2,843	122.0	17.1	PDF	IES	2,958	127.0	17.3	PDF	IES	2,989	128.3	17.3	PDF	IES	3,018	129.5	17.3	PDF	IES
2500	NA	19.1	2,339	122.5	16.5	PDF	IES	2,387	125.0	16.5	PDF	IES	2,485	130.1	16.7	PDF	IES	2,509	131.4	16.7	PDF	IES	2,533	132.6	16.7	PDF	IES
2000	NA	15.6	1,862	119.4	15.7	PDF	IES	1,901	121.9	15.7	PDF	IES	1,979	126.9	15.9	PDF	IES	1,996	127.9	15.9	PDF	IES	2,017	129.3	15.9	PDF	IES
1500	NA	12.2	1,404	115.1	14.7	PDF	IES	1,433	117.5	14.8	PDF	IES	1,494	122.5	14.9	PDF	IES	1,505	123.4	14.9	PDF	IES	1,521	124.7	15.0	PDF	IES
1000	NA	8.8	918	104.3	13.2	PDF	IES	936	106.4	13.3	PDF	IES	978	111.1	13.4	PDF	IES	983	111.7	13.4	PDF	IES	994	113.0	13.5	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4Hx8HxH and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

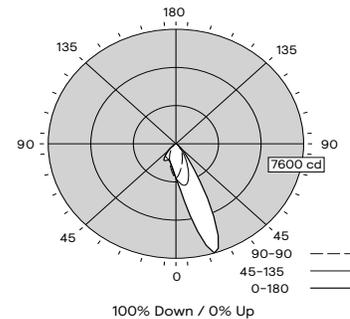
Performance 61° Symmetric Batwing MesoOptics louver
Spacing Criteria: 0.65/1.00



Performance 63° Symmetric Stack Beam MesoOptics louver
Spacing Criteria: 0.54/1.37



Performance 20° Asymmetric Wall Wash MesoOptics louver
Spacing Criteria: 1.29/0.59



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-08-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L8

TruGroove surface micro louver

Photometry

Direct (TM01) Performance 48° Medium Beam w/ MesoOptics louver

Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Direct	Indirect		Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
4000	NA	30.9	3,828	123.9	15.7	PDF	IES	3,911	126.6	15.7	PDF	IES	4,063	131.5	15.9	PDF	IES	4,108	132.9	15.9	PDF	IES	4,150	134.3	16.0	PDF	IES
3500	NA	27.0	3,336	123.6	15.2	PDF	IES	3,405	126.1	15.3	PDF	IES	3,541	131.1	15.4	PDF	IES	3,579	132.6	15.4	PDF	IES	3,614	133.9	15.5	PDF	IES
3000	NA	23.3	2,860	122.7	14.7	PDF	IES	2,918	125.2	14.7	PDF	IES	3,036	130.3	14.9	PDF	IES	3,067	131.6	14.9	PDF	IES	3,097	132.9	14.9	PDF	IES
2500	NA	19.1	2,400	125.7	14.1	PDF	IES	2,449	128.2	14.1	PDF	IES	2,549	133.5	14.3	PDF	IES	2,574	134.8	14.3	PDF	IES	2,599	136.1	14.3	PDF	IES
2000	NA	15.6	1,911	122.5	13.3	PDF	IES	1,950	125.0	13.3	PDF	IES	2,031	130.2	13.5	PDF	IES	2,048	131.3	13.5	PDF	IES	2,069	132.6	13.5	PDF	IES
1500	NA	12.2	1,441	118.1	12.3	PDF	IES	1,471	120.6	12.4	PDF	IES	1,533	125.7	12.5	PDF	IES	1,544	126.6	12.5	PDF	IES	1,560	127.9	12.6	PDF	IES
1000	NA	8.8	942	107.0	10.8	PDF	IES	960	109.1	10.9	PDF	IES	1,003	114.0	11.0	PDF	IES	1,008	114.5	11.0	PDF	IES	1,020	115.9	11.1	PDF	IES

Direct (TM11) Performance 27° Narrow Beam w/ MesoOptic louver

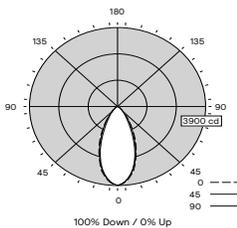
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Direct	Indirect		Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
4000	NA	30.9	3,763	121.8	10.9	PDF	IES	3,844	124.4	11.0	PDF	IES	3,993	129.2	11.2	PDF	IES	4,038	130.7	11.2	PDF	IES	4,079	132.0	11.2	PDF	IES
3500	NA	27.0	3,279	121.4	10.5	PDF	IES	3,347	124.0	10.5	PDF	IES	3,480	128.9	10.7	PDF	IES	3,518	130.3	10.7	PDF	IES	3,552	131.6	10.7	PDF	IES
3000	NA	23.3	2,811	120.6	9.9	PDF	IES	2,868	123.1	10.0	PDF	IES	2,984	128.1	10.1	PDF	IES	3,015	129.4	10.2	PDF	IES	3,044	130.6	10.2	PDF	IES
2500	NA	19.1	2,359	123.5	9.3	PDF	IES	2,407	126.0	9.4	PDF	IES	2,506	131.2	9.5	PDF	IES	2,530	132.5	9.6	PDF	IES	2,555	133.8	9.6	PDF	IES
2000	NA	15.6	1,878	120.4	8.5	PDF	IES	1,917	122.9	8.6	PDF	IES	1,996	127.9	8.7	PDF	IES	2,013	129.0	8.8	PDF	IES	2,034	130.4	8.8	PDF	IES
1500	NA	12.2	1,416	116.1	7.6	PDF	IES	1,446	118.5	7.6	PDF	IES	1,507	123.5	7.8	PDF	IES	1,517	124.3	7.8	PDF	IES	1,534	125.7	7.8	PDF	IES
1000	NA	8.8	926	105.2	6.1	PDF	IES	944	107.3	6.1	PDF	IES	986	112.0	6.3	PDF	IES	991	112.6	6.3	PDF	IES	1,002	113.9	6.4	PDF	IES

Direct (TM11) Performance 17° Graze Beam w/ MesoOptic louver

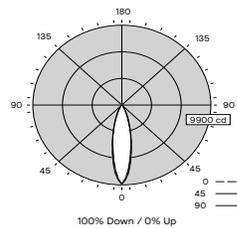
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Direct	Indirect		Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
4000	NA	30.9	3,773	122.1	12.7	PDF	IES	3,855	124.8	12.7	PDF	IES	4,004	129.6	12.9	PDF	IES	4,049	131.0	12.9	PDF	IES	4,090	132.4	12.9	PDF	IES
3500	NA	27.0	3,288	121.8	12.2	PDF	IES	3,356	124.3	12.3	PDF	IES	3,490	129.3	12.4	PDF	IES	3,527	130.6	12.4	PDF	IES	3,562	131.9	12.5	PDF	IES
3000	NA	23.3	2,818	120.9	11.6	PDF	IES	2,876	123.4	11.7	PDF	IES	2,992	128.4	11.9	PDF	IES	3,023	129.7	11.9	PDF	IES	3,052	131.0	11.9	PDF	IES
2500	NA	19.1	2,366	123.9	11.0	PDF	IES	2,414	126.4	11.1	PDF	IES	2,513	131.6	11.3	PDF	IES	2,537	132.8	11.3	PDF	IES	2,562	134.1	11.3	PDF	IES
2000	NA	15.6	1,883	120.7	10.2	PDF	IES	1,922	123.2	10.3	PDF	IES	2,002	128.3	10.5	PDF	IES	2,019	129.4	10.5	PDF	IES	2,040	130.8	10.5	PDF	IES
1500	NA	12.2	1,420	116.4	9.3	PDF	IES	1,450	118.9	9.3	PDF	IES	1,511	123.9	9.5	PDF	IES	1,522	124.8	9.5	PDF	IES	1,538	126.1	9.5	PDF	IES
1000	NA	8.8	928	105.5	7.8	PDF	IES	946	107.5	7.9	PDF	IES	989	112.4	8.0	PDF	IES	994	113.0	8.0	PDF	IES	1,005	114.2	8.1	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4xHx8x1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

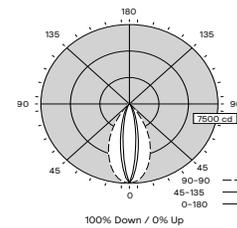
Performance Symmetric 48° Medium Beam MesoOptics louver Spacing Criteria: 0.75/0.70



Performance 27° Narrow Beam MesoOptics louver Spacing Criteria: 0.41/0.40



Performance 17° Graze Beam MesoOptics louver Spacing Criteria: 0.28/0.82



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.

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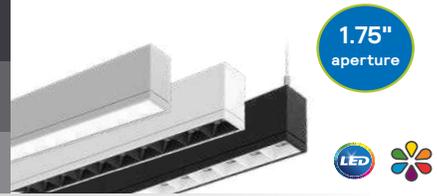
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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L9



TruGroove surface micro louver drives performance beyond the edge. Innovative optics deliver exceptional uniformity and wide row spacing from a 1.75" aperture continuous line of light. Unique Quad Optic louver cells offer a wide range of options from graze to stack to asymmetric wall wash exceeding the demands of the most challenging spaces.

TruGroove surface micro louver includes AccuRender technology for the highest color quality at the highest efficacy

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Line ID: _____ Qty: _____
 Notes: _____

Ordering guide¹²

example: TM11L940QRPC230NNN08DS1NCWS, SF

Family	Version	Distribution	Source	CRI/CCT ^{1, 5, 8, 16}
TM	1	1	L	
TM TruGroove micro	1 Surface	1 Direct	L LED	950 CRI 90, 5000K 940 CRI 90, 4000K 935 CRI 90, 3500K
				930 CRI 90, 3000K 927 CRI 90, 2700K 9T2 CRI 90, 2700-6500K 2ch Tunable White (confirm controls)
Optics (Direct)	Lumens (Direct) ^{1,16}	Optics (Indirect)	Lumens (Indirect)	Run Length ⁷
Lens ¹⁶	Louver Cell (specify quad optics, color, length, position) ^{8,15}	Lens		
N No lens (specify direct louver optic) Q Performance symmetric batwing flush MesoOptics W Performance asymmetric/wall wash flush MesoOptics B Definition symmetric flush black L Definition symmetric flush silk D Definition symmetric drop silk Note: To specify a lens/louver combination please select both lens and louver options.	Quad Optic N No louver (specify direct lens optic) G Performance 17° graze beam w/MesoOptics R Performance 27° narrow beam w/MesoOptics M Performance 48° medium beam w/MesoOptics S Performance 63° stack beam w/MesoOptics Q Performance 61° symmetric batwing w/MesoOptics W Performance 20° asymmetric wall wash w/MesoOptics Color N None B Black W White P Platinum G Gold C Copper Length N None C 6in (3 cells) 1 1ft (6 cells) F Full length Position N None 1 One end 2 Both ends F Full length	NN None 40 4000 lm/4ft 35 3500 lm/4ft 30 3000 lm/4ft 25 2500 lm/4ft 20 2000 lm/4ft 15 1500 lm/4ft 10 1000 lm/4ft 07 700 lm/4ft	N None NN None	02 2ft C2 2.5ft 03 3ft C3 3.5ft 04 4ft 05 5ft 06 6ft 08 8ft XX Continuous run in 6" increments (please specify) Surface Patterns: A4 2ft x 2ft Flat Corner (90°)
Voltage ³	Driver ^{3, 5}	Circuit ^{2, 10, 11}	Wiring Option ^{2,3,6,10,13}	System/Controls ^{4, 9, 14}
D UNV 120-277V 3 347V	E Advance Xitanium 0-10V (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack E Auxiliary wiring G GTD (please specify voltage)	NN None
D UNV 120-277V	D Advance Xitanium DALI (5% Dim) H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)			
D UNV 120-277V	S Advance Xitanium SR (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack R UL924 sensor bypass relay	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
D UNV 120-277V	F Advance FlexTune SR (1% Dim) 2 0-10V 2ch (1% Dim) 6 DALI DT6 2ch (1% Dim) 8 DALI DT8 2ch (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
Finish	Mount Type			
W Standard white T Titanium silver B Black	G Graphite gray C Custom (please specify color)	SF Surface mounted		

See footnotes on page 2.

SPECIFY FINISH

DLC Note: Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L9

TruGroove surface micro louver

Ordering guide footnotes

1. Nominal values within a range. Not all lumen packages are available with all configurations. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
 2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.
 3. 347V not available with Battery Pack, GTD, DALI, Lutron EcoSystem or Sensor Ready drivers or Interact Pro options. Battery packs available in modules > 4ft (lumen package limits may apply, check with Ledalite).
 4. Interact Pro options require separate controls hardware by Signify.
 5. Tunable White options are available with 2ch 0-10V, DALI-2 (DT6 or DT8) drivers. Please enquire about options such as or DMX control (extended lead times may apply).
 6. Auxiliary Wiring not available with Interact Pro luminaires. Aux sections are wired to one fixture end only.
 7. Flat corners are 90°. No asymmetric lens optics in corners. Please enquire about options for custom angles and intersections. for 2ft D/I configurations please consult factory. (Extended lead times may apply for these options).
 8. Tunable White not available with Louver Cell Optics.
 9. Integral sensors only recommended at ends of runs for best aesthetics. Mid run sensors can be provided in remote mounts. Integral sensors not available with Drop Lens options. Please enquire about options for remote sensors. Sensors must be combined with a Sensor Ready driver options. Default sensor color is white, fixtures with black finish have black sensors. (Consult factory for other combinations). Other third party sensors also available, please enquire about options for Lutron Athena, or others.
 10. Luminaires are pre-wired to both ends with quick wire connectors at one end for standard circuit & battery pack trigger wire (if applicable). Each circuit has its own neutral conductor. All circuits are clearly labelled at each end.
 11. Thru Wire options can provide either one additional set of (4) power and dimming wires (Black/White/Purple/Pink or Brown) or one additional battery pack trigger wire (Orange) through a selected module, please consult factory for other Thru Wire options.
 12. Other options not shown here may also be possible via a custom request. Extended lead times and minimum order quantities may apply, please consult factory.
 13. UL924 listed sensor bypass relay is factory installed between driver & sensor. Must be ordered in same module as integral sensing option. Consult Ledalite for other options. Must be installed in conjunction with a UL1008 device.
 14. Must order IRT9015 Interact commissioning remote with each system order.
 15. Combination modules with Louver Cells and a Flush Lens may be specified by using the "Louver Cell Length" and "Louver Cell Position" options.
 16. Black Lens limits direct lumens to 700 or 1000lm/4ft and indirect lumens to a max of 3000lm/4ft. Tunable White only in MesoOptic, Flush Silk or Drop Silk lenses, consult photometry data for lumens options of chosen configuration.
- Note:** Due to continuing product improvements, Ledalite reserves the right to change the specifications without notice



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

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Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

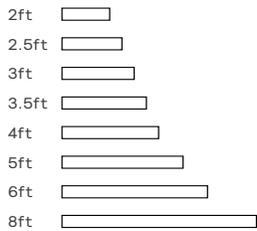
Type :
L9

TruGroove surface micro louver

Options and dimensions

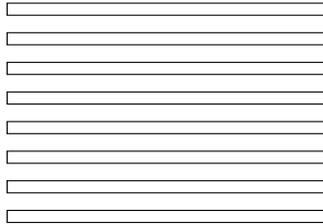
Standalone

Keep it simple with standalone modules, available in 8 standard lengths (consult Ledalite for custom lengths).



Continuous Run

Create an uninterrupted ribbon of light with continuous runs, specifiable to 6 in.



Patterns

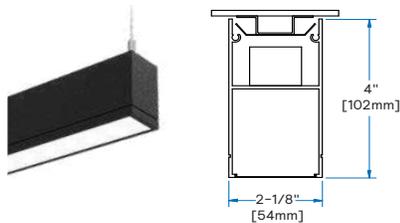
Seamlessly create any pattern imaginable (flat corners are 90°, contact Ledalite for custom angles and intersections).



Flush lens

TruGroove surface micro with 1.75" wide Flush MesoOptics or Silk lens.

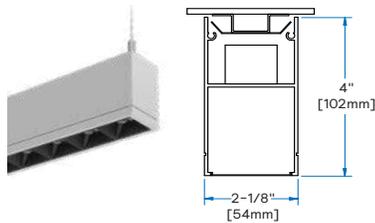
Direct



Louver

TruGroove surface micro with Ledalite's unique quad optic louver cells with MesoOptics in 6 distributions.

Direct



Louvers can be ordered at the full fixture length or in 6 in. or 1 ft sections at one or both ends of a fixture in combination with a lens.



Drop lens and black lens

TruGroove surface micro with drop lens and black lens options.





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

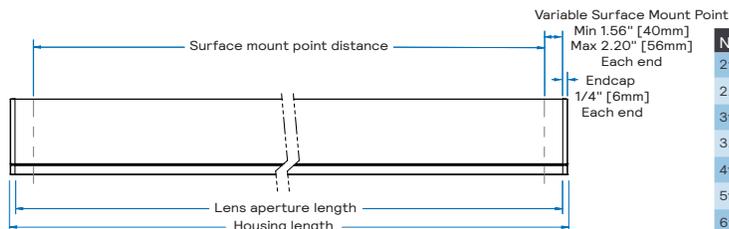
Type :
L9

TruGroove surface micro louver

Options and dimensions

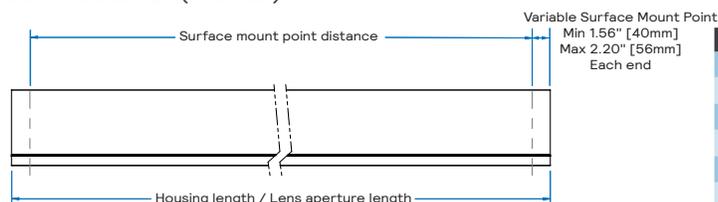
Side Views

Standalone



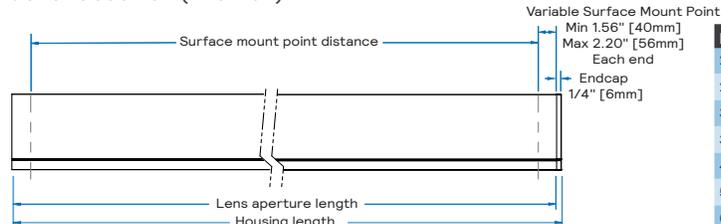
Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.5" [622mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.5" [775mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.5" [927mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.5" [1080mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.5" [1232mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.5" [1537mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.5" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	69.5" [2451mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Continuous Run (Mid-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.0" [610mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.0" [762mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.0" [914mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.0" [1067mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.0" [1219mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.0" [1524mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.0" [1829mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.0" [2438mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

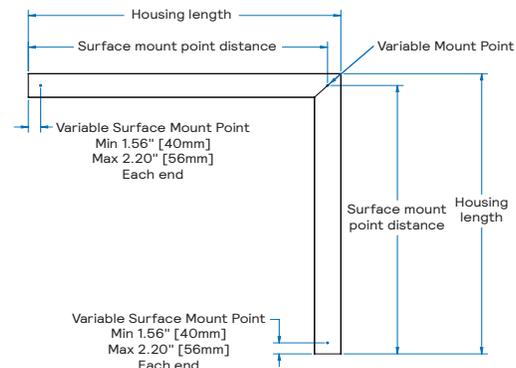
Continuous Run (End-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.25" [616mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.25" [768mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.25" [921mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.25" [1073mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.25" [1226mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.25" [1530mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.25" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.25" [2445mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Top View

Flat Corner 90°



Nominal	Housing	Surface Mount Point Distance
2ft x 2ft	25.1" [636mm]	23.80" ±0.2" [604 ±5mm]

Flat corners are 2ft x 2ft and can be used to create surface patterns. Flat corners are 90°, contact Ledalite for custom angles and intersections.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L9

TruGroove surface micro louver

Specifications

Optical System

Direct hemisphere: Light emitted from a linear array of downward-facing LEDs is laterally redirected using optical microstructures embedded in a layer of MesoOptics DX film to generate an optimal batwing distribution and a uniform continuum of light. The available Flush Silk Lens is a value-oriented option that provides a lambertian distribution while maintaining a uniform continuum of light.

Additionally, Ledalite's unique Quad Optic louver Cell provides 6 tailored optical distributions with reduced glare.

Housing

Post painted precision aluminum extrusion.

Endcaps

Diecast flat aluminum endcaps with integral groove to match housing.

Finish

High quality powder coated, available in standard Matte White, Black, Titanium Silver or Graphite Grey. TruGroove can also be specified in any custom color upon request for a one-time setup charge. Optional sensors (such as Interact Pro) available in white only.

Mounting

Surface: Fixture is mounted flush to surface using hidden brackets that attach to existing structure, variable between 0.6"-1.7" from end or joint.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Weight

Maximum 3.8/ft (surface mount), 10lb (2ft x 2ft surface mounted corner).

Electrical

Fixtures are factory pre-wired to section ends with quick-wire connectors and tested for all circuits and backup battery packs. LED boards and drivers are easily field replaceable with access from below the ceiling.

Standard Drivers

Advance Xitanium 0-10V, 1% Dimming.
Advance Xitanium DALI, 5% Dimming.
Advance Xitanium Sensor Ready, 1% Dimming.
Lutron EcoSystem LDE1, 1% Dimming with Soft-On and Fade-to-Black.
Class 2 rated output. Consult Ledalite for other available drivers.

Standard Battery Packs

Bodine Battery Pack, 90 min, 10W, Class 2 rated output.
Lumen output = 10W x luminaire efficacy x 1.1. Typical output ~1200lm.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-15. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is:
 $L_{80}(10k) > 60,000$ hours (Reported methodology).

Source Color

LEDs rated for color rendering of:
CRI $R_a \geq 90$, $R_g \geq 50$, $G_a \geq 97$, $C_g \geq 90$
IES TM-30-18 : $R_f \geq 90$, $R_{f,hi} \geq 89$, $R_g \geq 99$, $R_{cs,hi} \geq -5\%$

SPD and TM-30-18 reports available upon request

Fixture to fixture color accuracy within:

2 SDCM for Static White luminaires
3 SDCM for Tunable White luminaires

Approvals

Certified to UL, IES & CSA Standards.

Select TruGroove micro configurations contribute toward satisfying features L03, L04, L06, L07 and L08 under the WELL v2 Building Standard®.

Certain versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers.
www.designlights.org/QPL

TruGroove is Declare label certified. More information on the TruGroove label can be found on <https://declare.living-future.org/> and through the Declare ID **SGY-0007**.

Environment

Rated for dry or damp locations in operating ambient temperatures of 0-25°C (32-77°F).

Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur-based chemicals, petroleum-based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum-based solution or other contaminants are not covered under warranty. Not suitable for natatorium environments.

Warranty

Five-year luminaire limited warranty including LED boards and driver:
www.signify.com/warranties

QuickShip

10-day QuickShip available for most configurations upon request. More information available at:
www.signify.com/en-us/brands/ledalite/quickship



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Notes : SPECIFY FINISH

Type : L9

TruGroove surface micro louver

Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (CS an evolution of SpaceWise):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

Emergency Options (R):

- Power Sensing (Factory default) – Recommended
- UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (Field option)
- Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact Pro scalable sensor bundles for Enterprise tier (SB):

- SB option, in addition to occupancy and daylight sensing, supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning. For more information, visit: www.interact-lighting.com/office

Wired Controls Options

Tunable White:

- Control options for Tunable White with DALI (DT6 or DT8), 0-10V, or DMX control are available via an Engineered-to-Order (ETO) request.
- Signify tunable white solutions are designed to help maximize the influence of lighting on your daily life.
- Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Scene setting via lighting pre-sets based on various combinations of lighting color temperature and intensity.

Interact Pro scalable sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZeeBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZeeBee + Bluetooth	RADIO	RADIO	RA	RA
ZeeBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZeeBee + Highbay + Sensing	-	SWZCSH	-	-



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L9

TruGroove surface micro louver

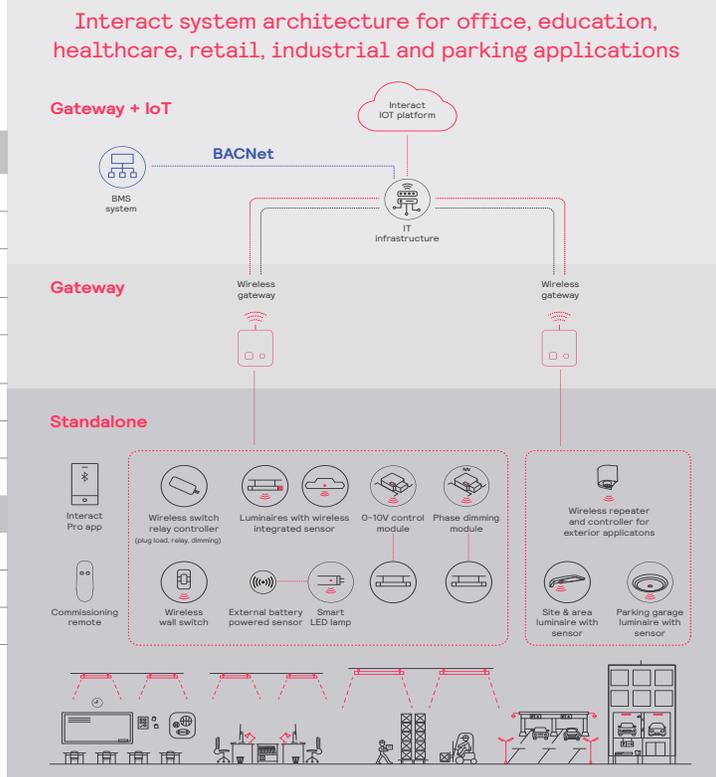
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L9

TruGroove surface micro louver

Colorimetry

TruGroove micro (TMxx) AccuRender Static White

Nominal CRI & CCT		CRI 90, 2700K	CRI 90, 3000K	CRI 90, 3500K	CRI 90, 4000K	CRI 90, 5000K
CIE 013.3-1995 ¹	CRI R _a	94	93	93	93	93
	R ₉	55	57	59	64	68
	G _a	99	99	99	99	99
	C _s	93	93	93	93	94
IES TM-30-18 ²	R _f	92	91	91	91	90
	R _{f,h1}	90	90	90	91	89
	R _g	100	100	99	100	100
	R _{cs,h1}	-6%	-5%	-6%	-5%	-5%
MDER ³		0.45	0.51	0.58	0.65	0.81

1. Color Rendering Index (CRI Ra) and Strong Red (R9) are calculated in accordance with CIE 013.3-1995. Color Gamut Index (Ga) and red chroma Index (C9) are CIE based properties using the Global Lighting Association's calculation tool.
2. Fidelity Index (Rf), Red Fidelity Index (Rf,h1), Gamut Index (Rg), and Red Local Chroma Shift (Rcs,h1) are calculated in accordance with IES TM-30-18.
3. Melanopic Daylight Efficacy Ratio (MDER) is the measure for "spectral melanopic efficiency" as defined in CIE S 026-2018.

Photometry

The following pages contain photometry for TruGroove suspended micro with louvers.

Photometry for TruGroove suspended micro with Lens can be found by scanning the QR code or following the link: https://www.signify.com/api/assets/v1/file/Signify/content/b3b5c0da54fc4db38edaada3013a1b5a/TruGroove_Surface_Micro_Lens_SpecSheet_CST.pdf





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :

L9

TruGroove surface micro louver

Photometry

Direct (TM11) Performance 61° Symmetric Batwing w/ MesoOptics louver

Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	34.8	3,775	108.5	19.3	PDF	IES	3,862	111.0	19.4	PDF	IES	4,008	115.2	19.5	PDF	IES	4,052	116.4	19.6	PDF	IES	4,095	117.7	19.6	PDF	IES
3500	NA	30.1	3,288	109.2	18.8	PDF	IES	3,359	111.6	18.9	PDF	IES	3,490	115.9	19.1	PDF	IES	3,528	117.2	19.1	PDF	IES	3,564	118.4	19.1	PDF	IES
3000	NA	26.0	2,833	109.0	18.3	PDF	IES	2,891	111.2	18.4	PDF	IES	3,006	115.6	18.5	PDF	IES	3,039	116.9	18.6	PDF	IES	3,068	118.0	18.6	PDF	IES
2500	NA	21.1	2,348	111.3	17.7	PDF	IES	2,395	113.5	17.7	PDF	IES	2,493	118.2	17.9	PDF	IES	2,518	119.3	17.9	PDF	IES	2,543	120.5	16.0	PDF	IES
2000	NA	17.2	1,877	109.1	16.9	PDF	IES	1,915	111.3	17.0	PDF	IES	1,994	115.9	17.1	PDF	IES	2,012	117.0	17.1	PDF	IES	2,032	118.1	17.2	PDF	IES
1500	NA	13.4	1,421	106.0	15.9	PDF	IES	1,451	108.3	16.0	PDF	IES	1,512	112.8	16.1	PDF	IES	1,523	113.7	16.2	PDF	IES	1,539	114.9	16.2	PDF	IES
1000	NA	9.7	939	96.8	14.5	PDF	IES	958	98.8	14.6	PDF	IES	1,000	103.1	14.7	PDF	IES	1,006	103.7	14.7	PDF	IES	1,017	104.8	14.8	PDF	IES

Direct (TM11) Performance 63° Stack Beam w/ MesoOptics louver

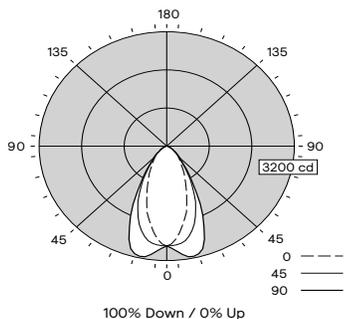
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	32.4	3,770	116.4	18.1	PDF	IES	3,853	118.9	18.2	PDF	IES	4,001	123.5	18.3	PDF	IES	4,046	124.9	18.4	PDF	IES	4,087	126.1	18.4	PDF	IES
3500	NA	28.2	3,289	116.6	17.6	PDF	IES	3,358	119.1	17.7	PDF	IES	3,490	123.8	17.8	PDF	IES	3,529	125.1	17.9	PDF	IES	3,563	126.3	17.9	PDF	IES
3000	NA	24.4	2,821	115.6	17.2	PDF	IES	2,879	118.0	17.2	PDF	IES	2,995	122.7	17.3	PDF	IES	3,026	124.0	17.3	PDF	IES	3,056	125.2	17.4	PDF	IES
2500	NA	19.9	2,346	117.9	16.5	PDF	IES	2,394	120.3	16.5	PDF	IES	2,491	125.2	16.7	PDF	IES	2,516	126.4	16.8	PDF	IES	2,541	127.7	16.7	PDF	IES
2000	NA	16.3	1,887	115.8	15.7	PDF	IES	1,926	118.2	15.9	PDF	IES	2,006	123.1	15.9	PDF	IES	2,023	124.1	15.9	PDF	IES	2,044	125.4	16.0	PDF	IES
1500	NA	12.6	1,400	111.1	14.7	PDF	IES	1,429	113.4	14.7	PDF	IES	1,489	118.2	14.9	PDF	IES	1,500	119.0	14.9	PDF	IES	1,516	120.3	14.9	PDF	IES
1000	NA	9.2	932	101.3	13.3	PDF	IES	950	103.3	13.3	PDF	IES	992	107.8	13.5	PDF	IES	997	108.4	13.5	PDF	IES	1,009	109.7	13.6	PDF	IES

Direct (TM11) Performance 20° Asymmetric Wall Wash w/ MesoOptics louver

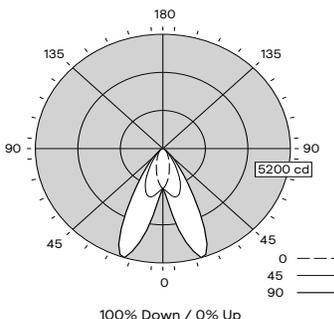
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,731	120.7	18.1	PDF	IES	3,812	123.4	18.2	PDF	IES	3,960	128.2	18.3	PDF	IES	4,004	129.6	18.3	PDF	IES	4,044	130.9	18.4	PDF	IES
3500	NA	27.0	3,251	120.4	17.6	PDF	IES	3,319	122.9	17.7	PDF	IES	3,451	127.8	17.8	PDF	IES	3,488	129.2	17.8	PDF	IES	3,522	130.4	17.9	PDF	IES
3000	NA	23.3	2,787	119.6	17.1	PDF	IES	2,843	122.0	17.1	PDF	IES	2,958	127.0	17.3	PDF	IES	2,989	128.3	17.3	PDF	IES	3,018	129.5	17.3	PDF	IES
2500	NA	19.1	2,339	122.5	16.5	PDF	IES	2,387	125.0	16.5	PDF	IES	2,485	130.1	16.7	PDF	IES	2,509	131.4	16.7	PDF	IES	2,533	132.6	16.7	PDF	IES
2000	NA	15.6	1,862	119.4	15.7	PDF	IES	1,901	121.9	15.7	PDF	IES	1,979	126.9	15.9	PDF	IES	1,996	127.9	15.9	PDF	IES	2,017	129.3	15.9	PDF	IES
1500	NA	12.2	1,404	115.1	14.7	PDF	IES	1,433	117.5	14.8	PDF	IES	1,494	122.5	14.9	PDF	IES	1,505	123.4	14.9	PDF	IES	1,521	124.7	15.0	PDF	IES
1000	NA	8.8	918	104.3	13.2	PDF	IES	936	106.4	13.3	PDF	IES	978	111.1	13.4	PDF	IES	983	111.7	13.4	PDF	IES	994	113.0	13.5	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4Hx8HxH and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

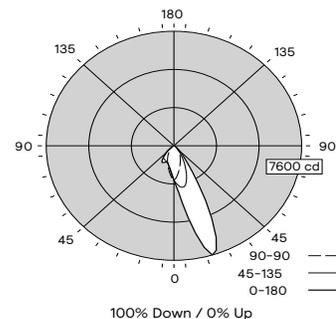
Performance 61° Symmetric Batwing MesoOptics louver
Spacing Criteria: 0.65/1.00



Performance 63° Symmetric Stack Beam MesoOptics louver
Spacing Criteria: 0.54/1.37



Performance 20° Asymmetric Wall Wash MesoOptics louver
Spacing Criteria: 1.29/0.59



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-09-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L9

TruGroove surface micro louver

Photometry

Direct (TM01) Performance 48° Medium Beam w/ MesoOptics louver

Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,828	123.9	15.7	PDF	IES	3,911	126.6	15.7	PDF	IES	4,063	131.5	15.9	PDF	IES	4,108	132.9	15.9	PDF	IES	4,150	134.3	16.0	PDF	IES		
3500	NA	27.0	3,336	123.6	15.2	PDF	IES	3,405	126.1	15.3	PDF	IES	3,541	131.1	15.4	PDF	IES	3,579	132.6	15.4	PDF	IES	3,614	133.9	15.5	PDF	IES		
3000	NA	23.3	2,860	122.7	14.7	PDF	IES	2,918	125.2	14.7	PDF	IES	3,036	130.3	14.9	PDF	IES	3,067	131.6	14.9	PDF	IES	3,097	132.9	14.9	PDF	IES		
2500	NA	19.1	2,400	125.7	14.1	PDF	IES	2,449	128.2	14.1	PDF	IES	2,549	133.5	14.3	PDF	IES	2,574	134.8	14.3	PDF	IES	2,599	136.1	14.3	PDF	IES		
2000	NA	15.6	1,911	122.5	13.3	PDF	IES	1,950	125.0	13.3	PDF	IES	2,031	130.2	13.5	PDF	IES	2,048	131.3	13.5	PDF	IES	2,069	132.6	13.5	PDF	IES		
1500	NA	12.2	1,441	118.1	12.3	PDF	IES	1,471	120.6	12.4	PDF	IES	1,533	125.7	12.5	PDF	IES	1,544	126.6	12.5	PDF	IES	1,560	127.9	12.6	PDF	IES		
1000	NA	8.8	942	107.0	10.8	PDF	IES	960	109.1	10.9	PDF	IES	1,003	114.0	11.0	PDF	IES	1,008	114.5	11.0	PDF	IES	1,020	115.9	11.1	PDF	IES		

Direct (TM11) Performance 27° Narrow Beam w/ MesoOptic louver

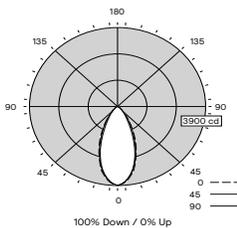
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,763	121.8	10.9	PDF	IES	3,844	124.4	11.0	PDF	IES	3,993	129.2	11.2	PDF	IES	4,038	130.7	11.2	PDF	IES	4,079	132.0	11.2	PDF	IES		
3500	NA	27.0	3,279	121.4	10.5	PDF	IES	3,347	124.0	10.5	PDF	IES	3,480	128.9	10.7	PDF	IES	3,518	130.3	10.7	PDF	IES	3,552	131.6	10.7	PDF	IES		
3000	NA	23.3	2,811	120.6	9.9	PDF	IES	2,868	123.1	10.0	PDF	IES	2,984	128.1	10.1	PDF	IES	3,015	129.4	10.2	PDF	IES	3,044	130.6	10.2	PDF	IES		
2500	NA	19.1	2,359	123.5	9.3	PDF	IES	2,407	126.0	9.4	PDF	IES	2,506	131.2	9.5	PDF	IES	2,530	132.5	9.6	PDF	IES	2,555	133.8	9.6	PDF	IES		
2000	NA	15.6	1,878	120.4	8.5	PDF	IES	1,917	122.9	8.6	PDF	IES	1,996	127.9	8.7	PDF	IES	2,013	129.0	8.8	PDF	IES	2,034	130.4	8.8	PDF	IES		
1500	NA	12.2	1,416	116.1	7.6	PDF	IES	1,446	118.5	7.6	PDF	IES	1,507	123.5	7.8	PDF	IES	1,517	124.3	7.8	PDF	IES	1,534	125.7	7.8	PDF	IES		
1000	NA	8.8	926	105.2	6.1	PDF	IES	944	107.3	6.1	PDF	IES	986	112.0	6.3	PDF	IES	991	112.6	6.3	PDF	IES	1,002	113.9	6.4	PDF	IES		

Direct (TM11) Performance 17° Graze Beam w/ MesoOptic louver

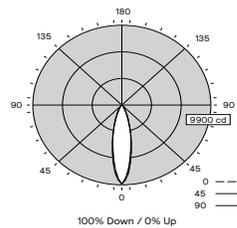
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,773	122.1	12.7	PDF	IES	3,855	124.8	12.7	PDF	IES	4,004	129.6	12.9	PDF	IES	4,049	131.0	12.9	PDF	IES	4,090	132.4	12.9	PDF	IES		
3500	NA	27.0	3,288	121.8	12.2	PDF	IES	3,356	124.3	12.3	PDF	IES	3,490	129.3	12.4	PDF	IES	3,527	130.6	12.4	PDF	IES	3,562	131.9	12.5	PDF	IES		
3000	NA	23.3	2,818	120.9	11.6	PDF	IES	2,876	123.4	11.7	PDF	IES	2,992	128.4	11.9	PDF	IES	3,023	129.7	11.9	PDF	IES	3,052	131.0	11.9	PDF	IES		
2500	NA	19.1	2,366	123.9	11.0	PDF	IES	2,414	126.4	11.1	PDF	IES	2,513	131.6	11.3	PDF	IES	2,537	132.8	11.3	PDF	IES	2,562	134.1	11.3	PDF	IES		
2000	NA	15.6	1,883	120.7	10.2	PDF	IES	1,922	123.2	10.3	PDF	IES	2,002	128.3	10.5	PDF	IES	2,019	129.4	10.5	PDF	IES	2,040	130.8	10.5	PDF	IES		
1500	NA	12.2	1,420	116.4	9.3	PDF	IES	1,450	118.9	9.3	PDF	IES	1,511	123.9	9.5	PDF	IES	1,522	124.8	9.5	PDF	IES	1,538	126.1	9.5	PDF	IES		
1000	NA	8.8	928	105.5	7.8	PDF	IES	946	107.5	7.9	PDF	IES	989	112.4	8.0	PDF	IES	994	113.0	8.0	PDF	IES	1,005	114.2	8.1	PDF	IES		

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4xHx8x1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

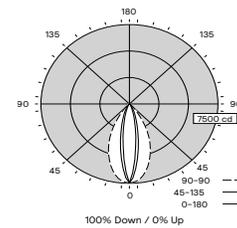
Performance Symmetric 48° Medium Beam MesoOptics louver Spacing Criteria: 0.75/0.70



Performance 27° Narrow Beam MesoOptics louver Spacing Criteria: 0.41/0.40



Performance 17° Graze Beam MesoOptics louver Spacing Criteria: 0.28/0.82



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.

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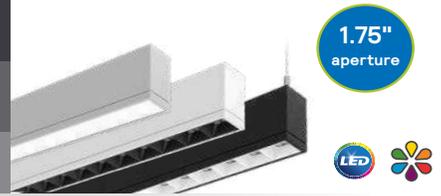
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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-11-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L11



TruGroove surface micro louvers drive performance beyond the edge. Innovative optics deliver exceptional uniformity and wide row spacing from a 1.75" aperture continuous line of light. Unique Quad Optic louver cells offer a wide range of options from graze to stack to asymmetric wall wash exceeding the demands of the most challenging spaces.

TruGroove surface micro louvers include AccuRender technology for the highest color quality at the highest efficacy

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Line ID: _____ Qty: _____
 Notes: _____

Ordering guide¹²

example: TM11L940QRPC230NNN08DS1NCWS, SF

Family	Version	Distribution	Source	CRI/CCT ^{1, 5, 8, 16}
TM	1	1	L	
TM TruGroove micro	1 Surface	1 Direct	L LED	950 CRI 90, 5000K 940 CRI 90, 4000K 935 CRI 90, 3500K
				930 CRI 90, 3000K 927 CRI 90, 2700K 9T2 CRI 90, 2700-6500K 2ch Tunable White (confirm controls)
Optics (Direct)	Lumens (Direct) ^{1,16}	Optics (Indirect)	Lumens (Indirect)	Run Length ⁷
Lens ¹⁶	Louver Cell (specify quad optics, color, length, position) ^{8,15}	Lens		
N No lens (specify direct louver optic) Q Performance symmetric batwing flush MesoOptics W Performance asymmetric/wall wash flush MesoOptics B Definition symmetric flush black L Definition symmetric flush silk D Definition symmetric drop silk Note: To specify a lens/louver combination please select both lens and louver options.	Quad Optic N No louver (specify direct lens optic) G Performance 17° graze beam w/MesoOptics R Performance 27° narrow beam w/MesoOptics M Performance 48° medium beam w/MesoOptics S Performance 63° stack beam w/MesoOptics Q Performance 61° symmetric batwing w/MesoOptics W Performance 20° asymmetric wall wash w/MesoOptics Color N None B Black W White P Platinum G Gold C Copper Length N None C 6in (3 cells) 1 1ft (6 cells) F Full length Position N None 1 One end 2 Both ends F Full length	NN None 40 4000 lm/4ft 35 3500 lm/4ft 30 3000 lm/4ft 25 2500 lm/4ft 20 2000 lm/4ft 15 1500 lm/4ft 10 1000 lm/4ft 07 700 lm/4ft	N None NN None	02 2ft C2 2.5ft 03 3ft C3 3.5ft 04 4ft 05 5ft 06 6ft 08 8ft XX Continuous run in 6" increments (please specify) Surface Patterns: A4 2ft x 2ft Flat Corner (90°)
Voltage ³	Driver ^{3, 5}	Circuit ^{2, 10, 11}	Wiring Option ^{2,3,6,10,13}	System/Controls ^{4, 9, 14}
D UNV 120-277V 3 347V	E Advance Xitanium 0-10V (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack E Auxiliary wiring G GTD (please specify voltage)	NN None
D UNV 120-277V	D Advance Xitanium DALI (5% Dim) H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)			
D UNV 120-277V	S Advance Xitanium SR (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack R UL924 sensor bypass relay	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
D UNV 120-277V	F Advance FlexTune SR (1% Dim) 2 0-10V 2ch (1% Dim) 6 DALI DT6 2ch (1% Dim) 8 DALI DT8 2ch (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
Finish	Mount Type			
W Standard white T Titanium silver B Black	G Graphite gray C Custom (please specify color)	SF Surface mounted		

See footnotes on page 2.

SPECIFY FINISH

DLC Note: Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search





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Ordering guide footnotes

1. Nominal values within a range. Not all lumen packages are available with all configurations. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
 2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.
 3. 347V not available with Battery Pack, GTD, DALI, Lutron EcoSystem or Sensor Ready drivers or Interact Pro options. Battery packs available in modules > 4ft (lumen package limits may apply, check with Ledalite).
 4. Interact Pro options require separate controls hardware by Signify.
 5. Tunable White options are available with 2ch 0-10V, DALI-2 (DT6 or DT8) drivers. Please enquire about options such as or DMX control (extended lead times may apply).
 6. Auxiliary Wiring not available with Interact Pro luminaires. Aux sections are wired to one fixture end only.
 7. Flat corners are 90°. No asymmetric lens optics in corners. Please enquire about options for custom angles and intersections. for 2ft D/I configurations please consult factory. (Extended lead times may apply for these options).
 8. Tunable White not available with Louver Cell Optics.
 9. Integral sensors only recommended at ends of runs for best aesthetics. Mid run sensors can be provided in remote mounts. Integral sensors not available with Drop Lens options. Please enquire about options for remote sensors. Sensors must be combined with a Sensor Ready driver options. Default sensor color is white, fixtures with black finish have black sensors. (Consult factory for other combinations). Other third party sensors also available, please enquire about options for Lutron Athena, or others.
 10. Luminaires are pre-wired to both ends with quick wire connectors at one end for standard circuit & battery pack trigger wire (if applicable). Each circuit has its own neutral conductor. All circuits are clearly labelled at each end.
 11. Thru Wire options can provide either one additional set of (4) power and dimming wires (Black/White/Purple/Pink or Brown) or one additional battery pack trigger wire (Orange) through a selected module, please consult factory for other Thru Wire options.
 12. Other options not shown here may also be possible via a custom request. Extended lead times and minimum order quantities may apply, please consult factory.
 13. UL924 listed sensor bypass relay is factory installed between driver & sensor. Must be ordered in same module as integral sensing option. Consult Ledalite for other options. Must be installed in conjunction with a UL1008 device.
 14. Must order IRT9015 Interact commissioning remote with each system order.
 15. Combination modules with Louver Cells and a Flush Lens may be specified by using the "Louver Cell Length" and "Louver Cell Position" options.
 16. Black Lens limits direct lumens to 700 or 1000lm/4ft and indirect lumens to a max of 3000lm/4ft. Tunable White only in MesoOptic, Flush Silk or Drop Silk lenses, consult photometry data for lumens options of chosen configuration.
- Note:** Due to continuing product improvements, Ledalite reserves the right to change the specifications without notice



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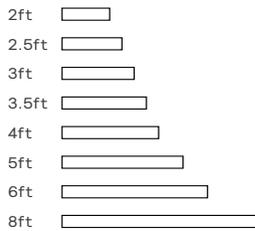
Type :
L11

TruGroove surface micro louver

Options and dimensions

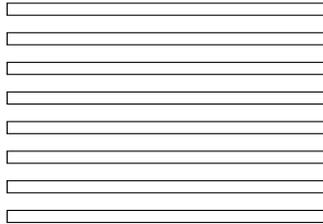
Standalone

Keep it simple with standalone modules, available in 8 standard lengths (consult Ledalite for custom lengths).



Continuous Run

Create an uninterrupted ribbon of light with continuous runs, specifiable to 6 in.



Patterns

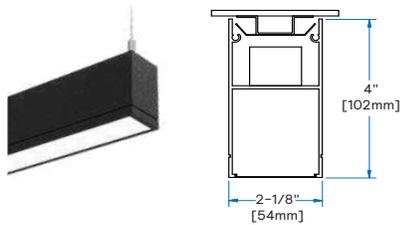
Seamlessly create any pattern imaginable (flat corners are 90°, contact Ledalite for custom angles and intersections).



Flush lens

TruGroove surface micro with 1.75" wide Flush MesoOptics or Silk lens.

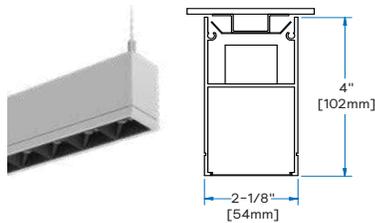
Direct



Louver

TruGroove surface micro with Ledalite's unique quad optic louver cells with MesoOptics in 6 distributions.

Direct



Louvers can be ordered at the full fixture length or in 6 in. or 1 ft sections at one or both ends of a fixture in combination with a lens.



Drop lens and black lens

TruGroove surface micro with drop lens and black lens options.





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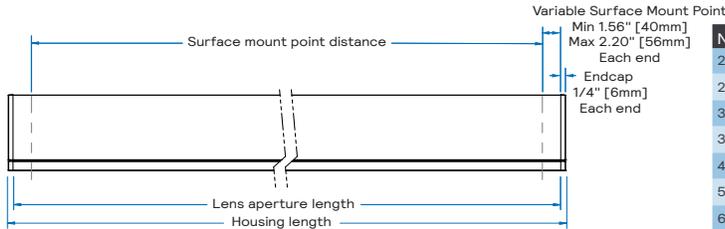
Type :
L11

TruGroove surface micro louver

Options and dimensions

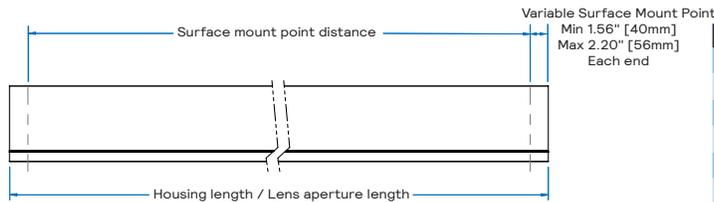
Side Views

Standalone



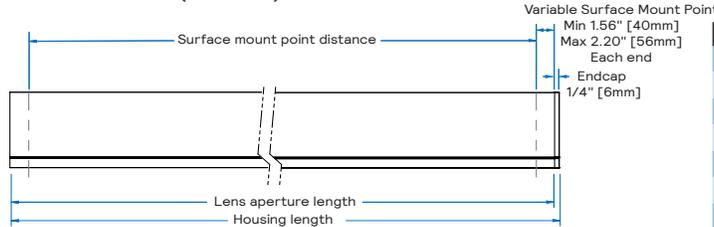
Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.5" [622mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.5" [775mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.5" [927mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.5" [1080mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.5" [1232mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.5" [1537mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.5" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	69.5" [2451mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Continuous Run (Mid-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.0" [610mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.0" [762mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.0" [914mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.0" [1067mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.0" [1219mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.0" [1524mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.0" [1829mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.0" [2438mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

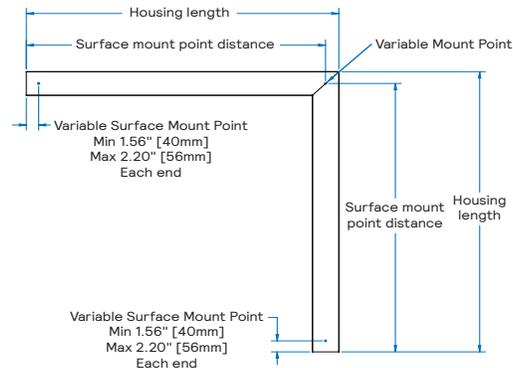
Continuous Run (End-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.25" [616mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.25" [768mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.25" [921mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.25" [1073mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.25" [1226mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.25" [1530mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.25" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.25" [2445mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Top View

Flat Corner 90°



Nominal	Housing	Surface Mount Point Distance
2ft x 2ft	25.1" [636mm]	23.80" ±0.2" [604 ±5mm]

Flat corners are 2ft x 2ft and can be used to create surface patterns. Flat corners are 90°, contact Ledalite for custom angles and intersections.



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L11

TruGroove surface micro louver

Specifications

Optical System

Direct hemisphere: Light emitted from a linear array of downward-facing LEDs is laterally redirected using optical microstructures embedded in a layer of MesoOptics DX film to generate an optimal batwing distribution and a uniform continuum of light. The available Flush Silk Lens is a value-oriented option that provides a lambertian distribution while maintaining a uniform continuum of light.

Additionally, Ledalite's unique Quad Optic louver Cell provides 6 tailored optical distributions with reduced glare.

Housing

Post painted precision aluminum extrusion.

Endcaps

Diecast flat aluminum endcaps with integral groove to match housing.

Finish

High quality powder coated, available in standard Matte White, Black, Titanium Silver or Graphite Grey. TruGroove can also be specified in any custom color upon request for a one-time setup charge. Optional sensors (such as Interact Pro) available in white only.

Mounting

Surface: Fixture is mounted flush to surface using hidden brackets that attach to existing structure, variable between 0.6"-1.7" from end or joint.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Weight

Maximum 3.8/ft (surface mount), 10lb (2ft x 2ft surface mounted corner).

Electrical

Fixtures are factory pre-wired to section ends with quick-wire connectors and tested for all circuits and backup battery packs. LED boards and drivers are easily field replaceable with access from below the ceiling.

Standard Drivers

Advance Xitanium 0-10V, 1% Dimming.
Advance Xitanium DALI, 5% Dimming.
Advance Xitanium Sensor Ready, 1% Dimming.
Lutron EcoSystem LDE1, 1% Dimming with Soft-On and Fade-to-Black.
Class 2 rated output. Consult Ledalite for other available drivers.

Standard Battery Packs

Bodine Battery Pack, 90 min, 10W, Class 2 rated output.
Lumen output = 10W x luminaire efficacy x 1.1. Typical output ~1200lm.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-15. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is:
 $L_{80}(10k) > 60,000$ hours (Reported methodology).

Source Color

LEDs rated for color rendering of:
CRI $R_a \geq 90$, $R_g \geq 50$, $G_a \geq 97$, $C_g \geq 90$
IES TM-30-18 : $R_f \geq 90$, $R_{f,hi} \geq 89$, $R_g \geq 99$, $R_{cs,hi} \geq -5\%$

SPD and TM-30-18 reports available upon request

Fixture to fixture color accuracy within:

2 SDCM for Static White luminaires
3 SDCM for Tunable White luminaires

Approvals

Certified to UL, IES & CSA Standards.

Select TruGroove micro configurations contribute toward satisfying features L03, L04, L06, L07 and L08 under the WELL v2 Building Standard®.

Certain versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers.
www.designlights.org/QPL

TruGroove is Declare label certified. More information on the TruGroove label can be found on <https://declare.living-future.org/> and through the Declare ID **SGY-0007**.

Environment

Rated for dry or damp locations in operating ambient temperatures of 0-25°C (32-77°F).

Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur-based chemicals, petroleum-based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum-based solution or other contaminants are not covered under warranty. Not suitable for natatorium environments.

Warranty

Five-year luminaire limited warranty including LED boards and driver:
www.signify.com/warranties

QuickShip

10-day QuickShip available for most configurations upon request. More information available at:
www.signify.com/en-us/brands/ledalite/quickship



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Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (CS an evolution of SpaceWise):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit: www.interact-lighting.com/interactproscalablesystem

Emergency Options (R):

- Power Sensing (Factory default) – Recommended
- UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (Field option)
- Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact Pro scalable sensor bundles for Enterprise tier (SB):

- SB option, in addition to occupancy and daylight sensing, supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning. For more information, visit: www.interact-lighting.com/office

Wired Controls Options

Tunable White:

- Control options for Tunable White with DALI (DT6 or DT8), 0-10V, or DMX control are available via an Engineered-to-Order (ETO) request.
- Signify tunable white solutions are designed to help maximize the influence of lighting on your daily life.
- Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Scene setting via lighting pre-sets based on various combinations of lighting color temperature and intensity.

Interact Pro scalable sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZeeBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZeeBee + Bluetooth	RADIO	RADIO	RA	RA
ZeeBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZeeBee + Highbay + Sensing	-	SWZCSH	-	-



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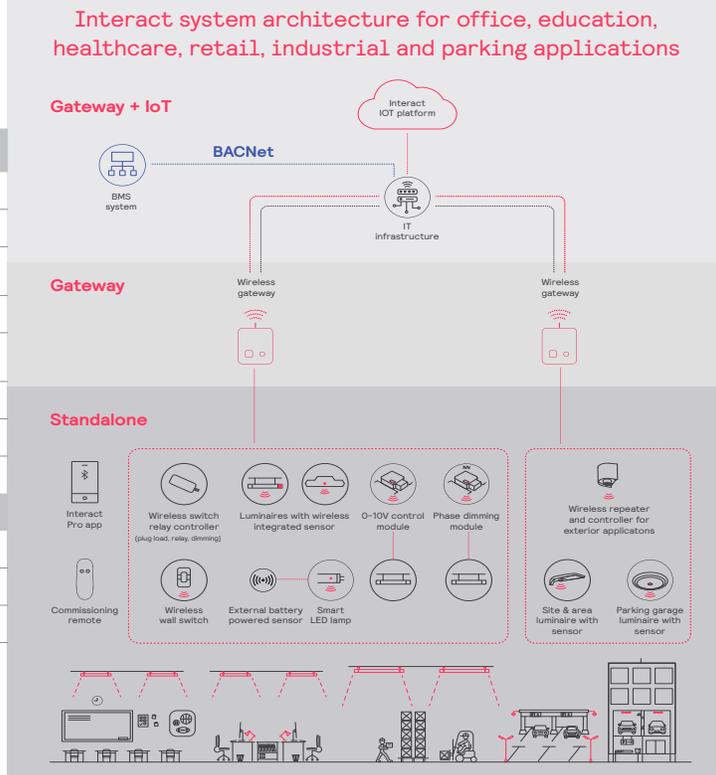
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDs	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





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Colorimetry

TruGroove micro (TMxx) AccuRender Static White

Nominal CRI & CCT		CRI 90, 2700K	CRI 90, 3000K	CRI 90, 3500K	CRI 90, 4000K	CRI 90, 5000K
CIE 013.3-1995 ¹	CRI R _a	94	93	93	93	93
	R ₉	55	57	59	64	68
	G _a	99	99	99	99	99
	C _s	93	93	93	93	94
IES TM-30-18 ²	R _f	92	91	91	91	90
	R _{f,h1}	90	90	90	91	89
	R _g	100	100	99	100	100
	R _{cs,h1}	-6%	-5%	-6%	-5%	-5%
MDER ³		0.45	0.51	0.58	0.65	0.81

1. Color Rendering Index (CRI Ra) and Strong Red (R9) are calculated in accordance with CIE 013.3-1995. Color Gamut Index (Ga) and red chroma Index (C9) are CIE based properties using the Global Lighting Association's calculation tool.
 2. Fidelity Index (Rf), Red Fidelity Index (Rf,h1), Gamut Index (Rg), and Red Local Chroma Shift (Rcs,h1) are calculated in accordance with IES TM-30-18.
 3. Melanopic Daylight Efficacy Ratio (MDER) is the measure for "spectral melanopic efficiency" as defined in CIE S 026-2018.

Photometry

The following pages contain photometry for TruGroove suspended micro with louvers.

Photometry for TruGroove suspended micro with Lens can be found by scanning the QR code or following the link: https://www.signify.com/api/assets/v1/file/Signify/content/b3b5c0da54fc4db38edaada3013a1b5a/TruGroove_Surface_Micro_Lens_SpecSheet_CST.pdf





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Photometry

Direct (TM11) Performance 61° Symmetric Batwing w/ MesoOptics louver

Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	34.8	3,775	108.5	19.3	PDF	IES	3,862	111.0	19.4	PDF	IES	4,008	115.2	19.5	PDF	IES	4,052	116.4	19.6	PDF	IES	4,095	117.7	19.6	PDF	IES
3500	NA	30.1	3,288	109.2	18.8	PDF	IES	3,359	111.6	18.9	PDF	IES	3,490	115.9	19.1	PDF	IES	3,528	117.2	19.1	PDF	IES	3,564	118.4	19.1	PDF	IES
3000	NA	26.0	2,833	109.0	18.3	PDF	IES	2,891	111.2	18.4	PDF	IES	3,006	115.6	18.5	PDF	IES	3,039	116.9	18.6	PDF	IES	3,068	118.0	18.6	PDF	IES
2500	NA	21.1	2,348	111.3	17.7	PDF	IES	2,395	113.5	17.7	PDF	IES	2,493	118.2	17.9	PDF	IES	2,518	119.3	17.9	PDF	IES	2,543	120.5	18.0	PDF	IES
2000	NA	17.2	1,877	109.1	16.9	PDF	IES	1,915	111.3	17.0	PDF	IES	1,994	115.9	17.1	PDF	IES	2,012	117.0	17.1	PDF	IES	2,032	118.1	17.2	PDF	IES
1500	NA	13.4	1,421	106.0	15.9	PDF	IES	1,451	108.3	16.0	PDF	IES	1,512	112.8	16.1	PDF	IES	1,523	113.7	16.2	PDF	IES	1,539	114.9	16.2	PDF	IES
1000	NA	9.7	939	96.8	14.5	PDF	IES	958	98.8	14.6	PDF	IES	1,000	103.1	14.7	PDF	IES	1,006	103.7	14.7	PDF	IES	1,017	104.8	14.8	PDF	IES

Direct (TM11) Performance 63° Stack Beam w/ MesoOptics louver

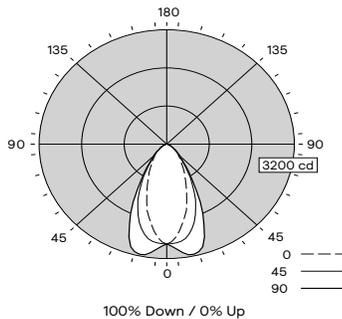
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	32.4	3,770	116.4	18.1	PDF	IES	3,853	118.9	18.2	PDF	IES	4,001	123.5	18.3	PDF	IES	4,046	124.9	18.4	PDF	IES	4,087	126.1	18.4	PDF	IES
3500	NA	28.2	3,289	116.6	17.6	PDF	IES	3,358	119.1	17.7	PDF	IES	3,490	123.8	17.8	PDF	IES	3,529	125.1	17.9	PDF	IES	3,563	126.3	17.9	PDF	IES
3000	NA	24.4	2,821	115.6	17.2	PDF	IES	2,879	118.0	17.2	PDF	IES	2,995	122.7	17.3	PDF	IES	3,026	124.0	17.3	PDF	IES	3,056	125.2	17.4	PDF	IES
2500	NA	19.9	2,346	117.9	16.5	PDF	IES	2,394	120.3	16.5	PDF	IES	2,491	125.2	16.7	PDF	IES	2,516	126.4	16.8	PDF	IES	2,541	127.7	16.7	PDF	IES
2000	NA	16.3	1,887	115.8	15.7	PDF	IES	1,926	118.2	15.9	PDF	IES	2,006	123.1	15.9	PDF	IES	2,023	124.1	15.9	PDF	IES	2,044	125.4	16.0	PDF	IES
1500	NA	12.6	1,400	111.1	14.7	PDF	IES	1,429	113.4	14.7	PDF	IES	1,489	118.2	14.9	PDF	IES	1,500	119.0	14.9	PDF	IES	1,516	120.3	14.9	PDF	IES
1000	NA	9.2	932	101.3	13.3	PDF	IES	950	103.3	13.3	PDF	IES	992	107.8	13.5	PDF	IES	997	108.4	13.5	PDF	IES	1,009	109.7	13.6	PDF	IES

Direct (TM11) Performance 20° Asymmetric Wall Wash w/ MesoOptics louver

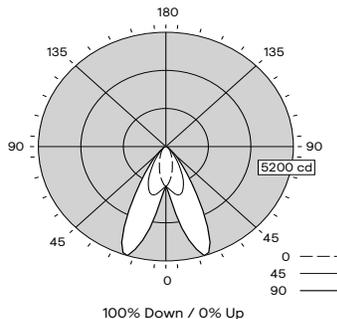
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,731	120.7	18.1	PDF	IES	3,812	123.4	18.2	PDF	IES	3,960	128.2	18.3	PDF	IES	4,004	129.6	18.3	PDF	IES	4,044	130.9	18.4	PDF	IES
3500	NA	27.0	3,251	120.4	17.6	PDF	IES	3,319	122.9	17.7	PDF	IES	3,451	127.8	17.8	PDF	IES	3,488	129.2	17.8	PDF	IES	3,522	130.4	17.9	PDF	IES
3000	NA	23.3	2,787	119.6	17.1	PDF	IES	2,843	122.0	17.1	PDF	IES	2,958	127.0	17.3	PDF	IES	2,989	128.3	17.3	PDF	IES	3,018	129.5	17.3	PDF	IES
2500	NA	19.1	2,339	122.5	16.5	PDF	IES	2,387	125.0	16.5	PDF	IES	2,485	130.1	16.7	PDF	IES	2,509	131.4	16.7	PDF	IES	2,533	132.6	16.7	PDF	IES
2000	NA	15.6	1,862	119.4	15.7	PDF	IES	1,901	121.9	15.7	PDF	IES	1,979	126.9	15.9	PDF	IES	1,996	127.9	15.9	PDF	IES	2,017	129.3	15.9	PDF	IES
1500	NA	12.2	1,404	115.1	14.7	PDF	IES	1,433	117.5	14.8	PDF	IES	1,494	122.5	14.9	PDF	IES	1,505	123.4	14.9	PDF	IES	1,521	124.7	15.0	PDF	IES
1000	NA	8.8	918	104.3	13.2	PDF	IES	936	106.4	13.3	PDF	IES	978	111.1	13.4	PDF	IES	983	111.7	13.4	PDF	IES	994	113.0	13.5	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4Hx8HxH and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

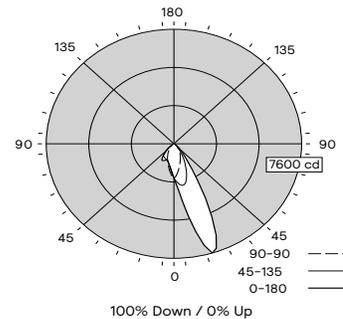
Performance 61° Symmetric Batwing MesoOptics louver
Spacing Criteria: 0.65/1.00



Performance 63° Symmetric Stack Beam MesoOptics louver
Spacing Criteria: 0.54/1.37



Performance 20° Asymmetric Wall Wash MesoOptics louver
Spacing Criteria: 1.29/0.59



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-11-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L11

TruGroove surface micro louver

Photometry

Direct (TM01) Performance 48° Medium Beam w/ MesoOptics louver

Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,828	123.9	15.7	PDF	IES	3,911	126.6	15.7	PDF	IES	4,063	131.5	15.9	PDF	IES	4,108	132.9	15.9	PDF	IES	4,150	134.3	16.0	PDF	IES		
3500	NA	27.0	3,336	123.6	15.2	PDF	IES	3,405	126.1	15.3	PDF	IES	3,541	131.1	15.4	PDF	IES	3,579	132.6	15.4	PDF	IES	3,614	133.9	15.5	PDF	IES		
3000	NA	23.3	2,860	122.7	14.7	PDF	IES	2,918	125.2	14.7	PDF	IES	3,036	130.3	14.9	PDF	IES	3,067	131.6	14.9	PDF	IES	3,097	132.9	14.9	PDF	IES		
2500	NA	19.1	2,400	125.7	14.1	PDF	IES	2,449	128.2	14.1	PDF	IES	2,549	133.5	14.3	PDF	IES	2,574	134.8	14.3	PDF	IES	2,599	136.1	14.3	PDF	IES		
2000	NA	15.6	1,911	122.5	13.3	PDF	IES	1,950	125.0	13.3	PDF	IES	2,031	130.2	13.5	PDF	IES	2,048	131.3	13.5	PDF	IES	2,069	132.6	13.5	PDF	IES		
1500	NA	12.2	1,441	118.1	12.3	PDF	IES	1,471	120.6	12.4	PDF	IES	1,533	125.7	12.5	PDF	IES	1,544	126.6	12.5	PDF	IES	1,560	127.9	12.6	PDF	IES		
1000	NA	8.8	942	107.0	10.8	PDF	IES	960	109.1	10.9	PDF	IES	1,003	114.0	11.0	PDF	IES	1,008	114.5	11.0	PDF	IES	1,020	115.9	11.1	PDF	IES		

Direct (TM11) Performance 27° Narrow Beam w/ MesoOptic louver

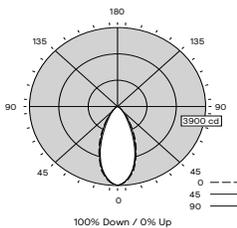
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,763	121.8	10.9	PDF	IES	3,844	124.4	11.0	PDF	IES	3,993	129.2	11.2	PDF	IES	4,038	130.7	11.2	PDF	IES	4,079	132.0	11.2	PDF	IES		
3500	NA	27.0	3,279	121.4	10.5	PDF	IES	3,347	124.0	10.5	PDF	IES	3,480	128.9	10.7	PDF	IES	3,518	130.3	10.7	PDF	IES	3,552	131.6	10.7	PDF	IES		
3000	NA	23.3	2,811	120.6	9.9	PDF	IES	2,868	123.1	10.0	PDF	IES	2,984	128.1	10.1	PDF	IES	3,015	129.4	10.2	PDF	IES	3,044	130.6	10.2	PDF	IES		
2500	NA	19.1	2,359	123.5	9.3	PDF	IES	2,407	126.0	9.4	PDF	IES	2,506	131.2	9.5	PDF	IES	2,530	132.5	9.6	PDF	IES	2,555	133.8	9.6	PDF	IES		
2000	NA	15.6	1,878	120.4	8.5	PDF	IES	1,917	122.9	8.6	PDF	IES	1,996	127.9	8.7	PDF	IES	2,013	129.0	8.8	PDF	IES	2,034	130.4	8.8	PDF	IES		
1500	NA	12.2	1,416	116.1	7.6	PDF	IES	1,446	118.5	7.6	PDF	IES	1,507	123.5	7.8	PDF	IES	1,517	124.3	7.8	PDF	IES	1,534	125.7	7.8	PDF	IES		
1000	NA	8.8	926	105.2	6.1	PDF	IES	944	107.3	6.1	PDF	IES	986	112.0	6.3	PDF	IES	991	112.6	6.3	PDF	IES	1,002	113.9	6.4	PDF	IES		

Direct (TM11) Performance 17° Graze Beam w/ MesoOptic louver

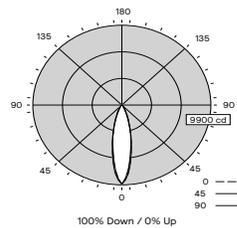
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,773	122.1	12.7	PDF	IES	3,855	124.8	12.7	PDF	IES	4,004	129.6	12.9	PDF	IES	4,049	131.0	12.9	PDF	IES	4,090	132.4	12.9	PDF	IES		
3500	NA	27.0	3,288	121.8	12.2	PDF	IES	3,356	124.3	12.3	PDF	IES	3,490	129.3	12.4	PDF	IES	3,527	130.6	12.4	PDF	IES	3,562	131.9	12.5	PDF	IES		
3000	NA	23.3	2,818	120.9	11.6	PDF	IES	2,876	123.4	11.7	PDF	IES	2,992	128.4	11.9	PDF	IES	3,023	129.7	11.9	PDF	IES	3,052	131.0	11.9	PDF	IES		
2500	NA	19.1	2,366	123.9	11.0	PDF	IES	2,414	126.4	11.1	PDF	IES	2,513	131.6	11.3	PDF	IES	2,537	132.8	11.3	PDF	IES	2,562	134.1	11.3	PDF	IES		
2000	NA	15.6	1,883	120.7	10.2	PDF	IES	1,922	123.2	10.3	PDF	IES	2,002	128.3	10.5	PDF	IES	2,019	129.4	10.5	PDF	IES	2,040	130.8	10.5	PDF	IES		
1500	NA	12.2	1,420	116.4	9.3	PDF	IES	1,450	118.9	9.3	PDF	IES	1,511	123.9	9.5	PDF	IES	1,522	124.8	9.5	PDF	IES	1,538	126.1	9.5	PDF	IES		
1000	NA	8.8	928	105.5	7.8	PDF	IES	946	107.5	7.9	PDF	IES	989	112.4	8.0	PDF	IES	994	113.0	8.0	PDF	IES	1,005	114.2	8.1	PDF	IES		

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4xHx8x1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

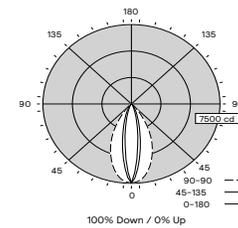
Performance Symmetric 48° Medium Beam MesoOptics louver Spacing Criteria: 0.75/0.70



Performance 27° Narrow Beam MesoOptics louver Spacing Criteria: 0.41/0.40



Performance 17° Graze Beam MesoOptics louver Spacing Criteria: 0.28/0.82



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.

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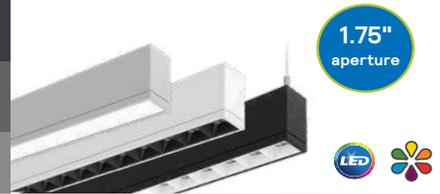
Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone: 800-668-9008

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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-12-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L12



TruGroove surface micro louver drives performance beyond the edge. Innovative optics deliver exceptional uniformity and wide row spacing from a 1.75" aperture continuous line of light. Unique Quad Optic louver cells offer a wide range of options from graze to stack to asymmetric wall wash exceeding the demands of the most challenging spaces.

TruGroove surface micro louver includes AccuRender technology for the highest color quality at the highest efficacy

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Line ID: _____ Qty: _____
 Notes: _____

Ordering guide¹²

example: TM11L940QRPC230NNN08DS1NCWS, SF

Family	Version	Distribution	Source	CRI/CCT ^{1, 5, 8, 16}
TM	1	1	L	
TM TruGroove micro	1 Surface	1 Direct	L LED	950 CRI 90, 5000K 940 CRI 90, 4000K 935 CRI 90, 3500K
				930 CRI 90, 3000K 927 CRI 90, 2700K 9T2 CRI 90, 2700-6500K 2ch Tunable White (confirm controls)
Optics (Direct)	Lumens (Direct) ^{1,16}	Optics (Indirect)	Lumens (Indirect)	Run Length ⁷
Lens ¹⁶	Louver Cell (specify quad optics, color, length, position) ^{8,15}	Lens		
N No lens (specify direct louver optic) Q Performance symmetric batwing flush MesoOptics W Performance asymmetric/wall wash flush MesoOptics B Definition symmetric flush black L Definition symmetric flush silk D Definition symmetric drop silk Note: To specify a lens/louver combination please select both lens and louver options.	Quad Optic N No louver (specify direct lens optic) G Performance 17° graze beam w/MesoOptics R Performance 27° narrow beam w/MesoOptics M Performance 48° medium beam w/MesoOptics S Performance 63° stack beam w/MesoOptics Q Performance 61° symmetric batwing w/MesoOptics W Performance 20° asymmetric wall wash w/MesoOptics Color N None B Black W White P Platinum G Gold C Copper Length N None C 6in (3 cells) 1 1ft (6 cells) F Full length Position N None 1 One end 2 Both ends F Full length	NN None 40 4000 lm/4ft 35 3500 lm/4ft 30 3000 lm/4ft 25 2500 lm/4ft 20 2000 lm/4ft 15 1500 lm/4ft 10 1000 lm/4ft 07 700 lm/4ft	N None NN None	02 2ft C2 2.5ft C3 3ft C3 3.5ft 04 4ft 05 5ft 06 6ft 08 8ft XX Continuous run in 6" increments (please specify) Surface Patterns: A4 2ft x 2ft Flat Corner (90°)
Voltage ³	Driver ^{3, 5}	Circuit ^{2, 10, 11}	Wiring Option ^{2,3,6,10,13}	System/Controls ^{4, 9, 14}
D UNV 120-277V 3 347V	E Advance Xitanium 0-10V (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack E Auxiliary wiring G GTD (please specify voltage)	NN None
D UNV 120-277V	D Advance Xitanium DALI (5% Dim) H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)			
D UNV 120-277V	S Advance Xitanium SR (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack R UL924 sensor bypass relay	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
D UNV 120-277V	F Advance FlexTune SR (1% Dim) 2 0-10V 2ch (1% Dim) 6 DALI DT6 2ch (1% Dim) 8 DALI DT8 2ch (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
Finish	Mount Type			
W Standard white T Titanium silver B Black	G Graphite gray C Custom (please specify color)	SF Surface mounted		

See footnotes on page 2.

SPECIFY FINISH

DLC Note: Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-12-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L12

TruGroove surface micro louver

Ordering guide footnotes

1. Nominal values within a range. Not all lumen packages are available with all configurations. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
 2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.
 3. 347V not available with Battery Pack, GTD, DALI, Lutron EcoSystem or Sensor Ready drivers or Interact Pro options. Battery packs available in modules > 4ft (lumen package limits may apply, check with Ledalite).
 4. Interact Pro options require separate controls hardware by Signify.
 5. Tunable White options are available with 2ch 0-10V, DALI-2 (DT6 or DT8) drivers. Please enquire about options such as or DMX control (extended lead times may apply).
 6. Auxiliary Wiring not available with Interact Pro luminaires. Aux sections are wired to one fixture end only.
 7. Flat corners are 90°. No asymmetric lens optics in corners. Please enquire about options for custom angles and intersections. for 2ft D/I configurations please consult factory. (Extended lead times may apply for these options).
 8. Tunable White not available with Louver Cell Optics.
 9. Integral sensors only recommended at ends of runs for best aesthetics. Mid run sensors can be provided in remote mounts. Integral sensors not available with Drop Lens options. Please enquire about options for remote sensors. Sensors must be combined with a Sensor Ready driver options. Default sensor color is white, fixtures with black finish have black sensors. (Consult factory for other combinations). Other third party sensors also available, please enquire about options for Lutron Athena, or others.
 10. Luminaires are pre-wired to both ends with quick wire connectors at one end for standard circuit & battery pack trigger wire (if applicable). Each circuit has its own neutral conductor. All circuits are clearly labelled at each end.
 11. Thru Wire options can provide either one additional set of (4) power and dimming wires (Black/White/Purple/Pink or Brown) or one additional battery pack trigger wire (Orange) through a selected module, please consult factory for other Thru Wire options.
 12. Other options not shown here may also be possible via a custom request. Extended lead times and minimum order quantities may apply, please consult factory.
 13. UL924 listed sensor bypass relay is factory installed between driver & sensor. Must be ordered in same module as integral sensing option. Consult Ledalite for other options. Must be installed in conjunction with a UL1008 device.
 14. Must order IRT9015 Interact commissioning remote with each system order.
 15. Combination modules with Louver Cells and a Flush Lens may be specified by using the "Louver Cell Length" and "Louver Cell Position" options.
 16. Black Lens limits direct lumens to 700 or 1000lm/4ft and indirect lumens to a max of 3000lm/4ft. Tunable White only in MesoOptic, Flush Silk or Drop Silk lenses, consult photometry data for lumens options of chosen configuration.
- Note:** Due to continuing product improvements, Ledalite reserves the right to change the specifications without notice



Job Name: CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer: LEDALITE BY SIGNIFY

Model Number: TM11L940NN25NNN-12-D-E-1-N-NN-FINISH-SF

Notes: SPECIFY FINISH

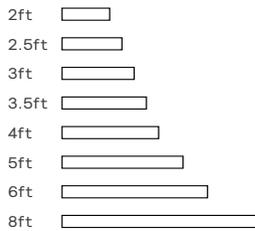
Type:
L12

TruGroove surface micro louver

Options and dimensions

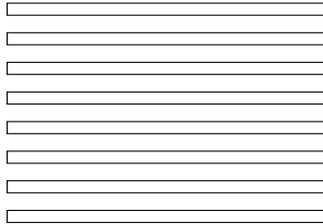
Standalone

Keep it simple with standalone modules, available in 8 standard lengths (consult Ledalite for custom lengths).



Continuous Run

Create an uninterrupted ribbon of light with continuous runs, specifiable to 6 in.



Patterns

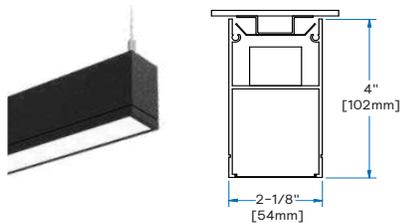
Seamlessly create any pattern imaginable (flat corners are 90°, contact Ledalite for custom angles and intersections).



Flush lens

TruGroove surface micro with 1.75" wide Flush MesoOptics or Silk lens.

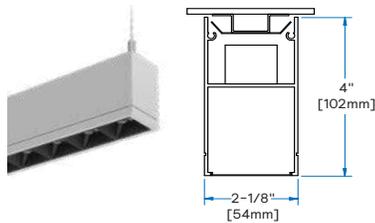
Direct



Louver

TruGroove surface micro with Ledalite's unique quad optic louver cells with MesoOptics in 6 distributions.

Direct



Louvers can be ordered at the full fixture length or in 6 in. or 1 ft sections at one or both ends of a fixture in combination with a lens.



Drop lens and black lens

TruGroove surface micro with drop lens and black lens options.





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Manufacturer : LEDALITE BY SIGNIFY
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Notes : SPECIFY FINISH

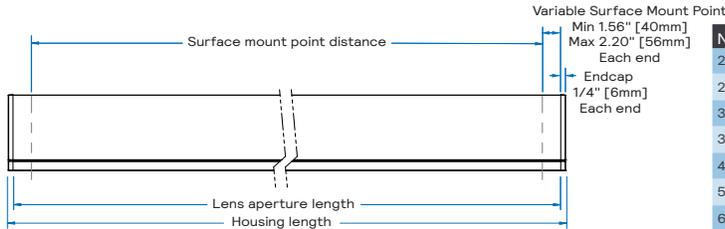
Type :
L12

TruGroove surface micro louver

Options and dimensions

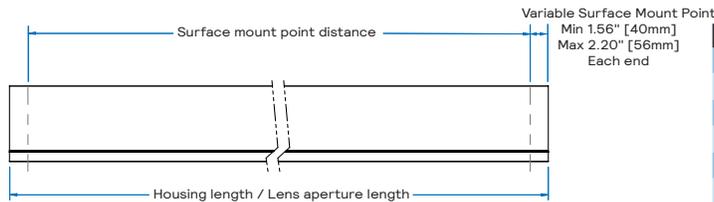
Side Views

Standalone



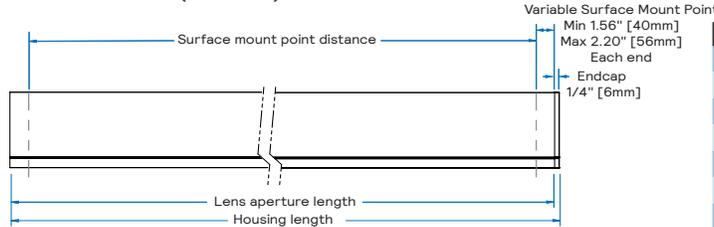
Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.5" [622mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.5" [775mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.5" [927mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.5" [1080mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.5" [1232mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.5" [1537mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.5" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	69.5" [2451mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Continuous Run (Mid-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.0" [610mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.0" [762mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.0" [914mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.0" [1067mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.0" [1219mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.0" [1524mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.0" [1829mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.0" [2438mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

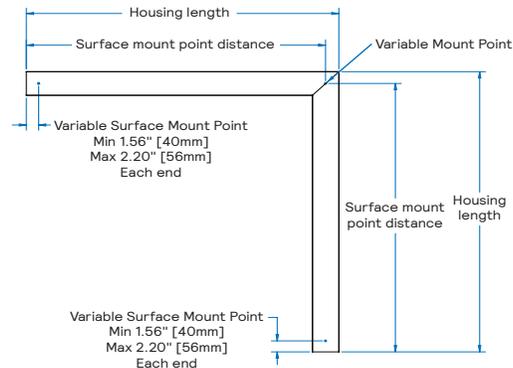
Continuous Run (End-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.25" [616mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.25" [768mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.25" [921mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.25" [1073mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.25" [1226mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.25" [1530mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.25" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.25" [2445mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Top View

Flat Corner 90°



Nominal	Housing	Surface Mount Point Distance
2ft x 2ft	25.1" [636mm]	23.80" ±0.2" [604 ±5mm]

Flat corners are 2ft x 2ft and can be used to create surface patterns. Flat corners are 90°, contact Ledalite for custom angles and intersections.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

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Notes : SPECIFY FINISH

Type :
L12

TruGroove surface micro louver

Specifications

Optical System

Direct hemisphere: Light emitted from a linear array of downward-facing LEDs is laterally redirected using optical microstructures embedded in a layer of MesoOptics DX film to generate an optimal batwing distribution and a uniform continuum of light. The available Flush Silk Lens is a value-oriented option that provides a lambertian distribution while maintaining a uniform continuum of light.

Additionally, Ledalite's unique Quad Optic louver Cell provides 6 tailored optical distributions with reduced glare.

Housing

Post painted precision aluminum extrusion.

Endcaps

Diecast flat aluminum endcaps with integral groove to match housing.

Finish

High quality powder coated, available in standard Matte White, Black, Titanium Silver or Graphite Grey. TruGroove can also be specified in any custom color upon request for a one-time setup charge. Optional sensors (such as Interact Pro) available in white only.

Mounting

Surface: Fixture is mounted flush to surface using hidden brackets that attach to existing structure, variable between 0.6"-1.7" from end or joint.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Weight

Maximum 3.8/ft (surface mount), 10lb (2ft x 2ft surface mounted corner).

Electrical

Fixtures are factory pre-wired to section ends with quick-wire connectors and tested for all circuits and backup battery packs. LED boards and drivers are easily field replaceable with access from below the ceiling.

Standard Drivers

Advance Xitanium 0-10V, 1% Dimming.
Advance Xitanium DALI, 5% Dimming.
Advance Xitanium Sensor Ready, 1% Dimming.
Lutron EcoSystem LDE1, 1% Dimming with Soft-On and Fade-to-Black.
Class 2 rated output. Consult Ledalite for other available drivers.

Standard Battery Packs

Bodine Battery Pack, 90 min, 10W, Class 2 rated output.
Lumen output = 10W x luminaire efficacy x 1.1. Typical output ~1200lm.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-15. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is:
 $L_{80}(10k) > 60,000$ hours (Reported methodology).

Source Color

LEDs rated for color rendering of:
CRI $R_a \geq 90$, $R_g \geq 50$, $G_a \geq 97$, $C_g \geq 90$
IES TM-30-18 : $R_f \geq 90$, $R_{f,hi} \geq 89$, $R_g \geq 99$, $R_{cs,hi} \geq -5\%$

SPD and TM-30-18 reports available upon request

Fixture to fixture color accuracy within:

2 SDCM for Static White luminaires
3 SDCM for Tunable White luminaires

Approvals

Certified to UL, IES & CSA Standards.

Select TruGroove micro configurations contribute toward satisfying features L03, L04, L06, L07 and L08 under the WELL v2 Building Standard®.

Certain versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers.
www.designlights.org/QPL

TruGroove is Declare label certified. More information on the TruGroove label can be found on <https://declare.living-future.org/> and through the Declare ID **SGY-0007**.

Environment

Rated for dry or damp locations in operating ambient temperatures of 0-25°C (32-77°F).

Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur-based chemicals, petroleum-based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum-based solution or other contaminants are not covered under warranty. Not suitable for natatorium environments.

Warranty

Five-year luminaire limited warranty including LED boards and driver:
www.signify.com/warranties

QuickShip

10-day QuickShip available for most configurations upon request. More information available at:
www.signify.com/en-us/brands/ledalite/quickship



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TruGroove surface micro louver

Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (CS an evolution of SpaceWise):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit:
www.interact-lighting.com/interactproscalablesystem

Emergency Options (R):

- Power Sensing (Factory default) – Recommended
- UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (Field option)
- Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact Pro scalable sensor bundles for Enterprise tier (SB):

- SB option, in addition to occupancy and daylight sensing, supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning. For more information, visit:
www.interact-lighting.com/office

Wired Controls Options

Tunable White:

- Control options for Tunable White with DALI (DT6 or DT8), 0-10V, or DMX control are available via an Engineered-to-Order (ETO) request.
- Signify tunable white solutions are designed to help maximize the influence of lighting on your daily life.
- Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Scene setting via lighting pre-sets based on various combinations of lighting color temperature and intensity.

Interact Pro scalable sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZeeBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZeeBee + Bluetooth	RADIO	RADIO	RA	RA
ZeeBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZeeBee + Highbay + Sensing	-	SWZCSH	-	-



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Type :
L12

TruGroove surface micro louver

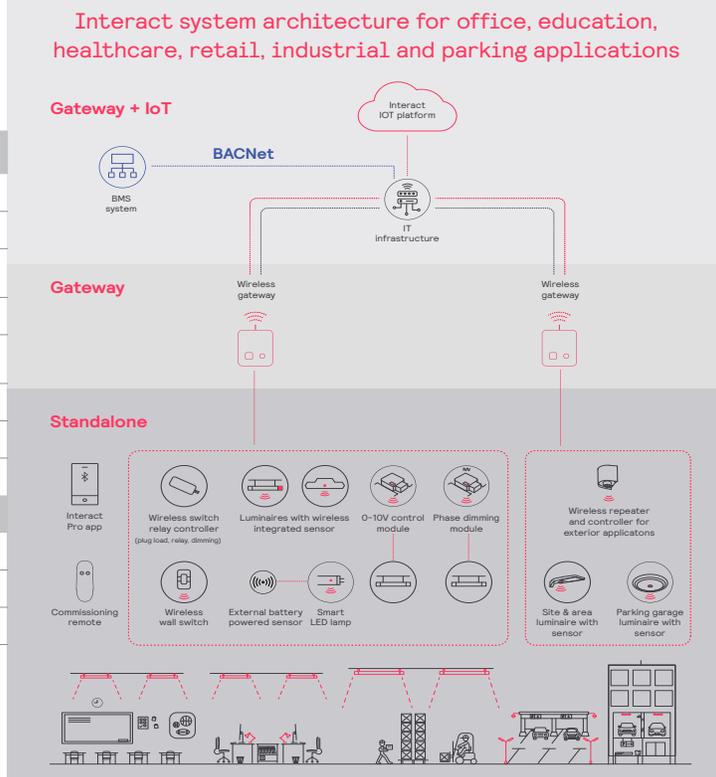
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





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Type :
L12

TruGroove surface micro louver

Colorimetry

TruGroove micro (TMxx) AccuRender Static White

Nominal CRI & CCT		CRI 90, 2700K	CRI 90, 3000K	CRI 90, 3500K	CRI 90, 4000K	CRI 90, 5000K
CIE 013.3-1995 ¹	CRI R_a	94	93	93	93	93
	R_9	55	57	59	64	68
	G_a	99	99	99	99	99
	C_{99}	93	93	93	93	94
IES TM-30-18 ²	R_f	92	91	91	91	90
	R_{f,h_1}	90	90	90	91	89
	R_g	100	100	99	100	100
	R_{cs,h_1}	-6%	-5%	-6%	-5%	-5%
MDER ³		0.45	0.51	0.58	0.65	0.81

1. Color Rendering Index (CRI Ra) and Strong Red (R9) are calculated in accordance with CIE 013.3-1995. Color Gamut Index (Ga) and red chroma Index (C9) are CIE based properties using the Global Lighting Association's calculation tool.
 2. Fidelity Index (Rf), Red Fidelity Index (Rf.h1), Gamut Index (Rg), and Red Local Chroma Shift (Rcs.h1) are calculated in accordance with IES TM-30-18.
 3. Melanopic Daylight Efficacy Ratio (MDER) is the measure for "spectral melanopic efficiency" as defined in CIE S 026-2018.

Photometry

The following pages contain photometry for TruGroove suspended micro with louvers.

Photometry for TruGroove suspended micro with Lens can be found by scanning the QR code or following the link: https://www.signify.com/api/assets/v1/file/Signify/content/b3b5c0da54fc4db38edaada3013a1b5a/TruGroove_Surface_Micro_Lens_SpecSheet_CST.pdf





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Notes : SPECIFY FINISH

Type : L12

TruGroove surface micro louver

Photometry

Direct (TM11) Performance 61° Symmetric Batwing w/ MesoOptics louver

Nominal CRI & CCT			CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	34.8	3,775	108.5	19.3	PDF	IES	3,862	111.0	19.4	PDF	IES	4,008	115.2	19.5	PDF	IES	4,052	116.4	19.6	PDF	IES	4,095	117.7	19.6	PDF	IES
3500	NA	30.1	3,288	109.2	18.8	PDF	IES	3,359	111.6	18.9	PDF	IES	3,490	115.9	19.1	PDF	IES	3,528	117.2	19.1	PDF	IES	3,564	118.4	19.1	PDF	IES
3000	NA	26.0	2,833	109.0	18.3	PDF	IES	2,891	111.2	18.4	PDF	IES	3,006	115.6	18.5	PDF	IES	3,039	116.9	18.6	PDF	IES	3,068	118.0	18.6	PDF	IES
2500	NA	21.1	2,348	111.3	17.7	PDF	IES	2,395	113.5	17.7	PDF	IES	2,493	118.2	17.9	PDF	IES	2,518	119.3	17.9	PDF	IES	2,543	120.5	18.0	PDF	IES
2000	NA	17.2	1,877	109.1	16.9	PDF	IES	1,915	111.3	17.0	PDF	IES	1,994	115.9	17.1	PDF	IES	2,012	117.0	17.1	PDF	IES	2,032	118.1	17.2	PDF	IES
1500	NA	13.4	1,421	106.0	15.9	PDF	IES	1,451	108.3	16.0	PDF	IES	1,512	112.8	16.1	PDF	IES	1,523	113.7	16.2	PDF	IES	1,539	114.9	16.2	PDF	IES
1000	NA	9.7	939	96.8	14.5	PDF	IES	958	98.8	14.6	PDF	IES	1,000	103.1	14.7	PDF	IES	1,006	103.7	14.7	PDF	IES	1,017	104.8	14.8	PDF	IES

Direct (TM11) Performance 63° Stack Beam w/ MesoOptics louver

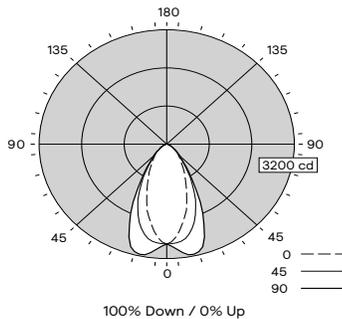
Nominal CRI & CCT			CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	32.4	3,770	116.4	18.1	PDF	IES	3,853	118.9	18.2	PDF	IES	4,001	123.5	18.3	PDF	IES	4,046	124.9	18.4	PDF	IES	4,087	126.1	18.4	PDF	IES
3500	NA	28.2	3,289	116.6	17.6	PDF	IES	3,358	119.1	17.7	PDF	IES	3,490	123.8	17.8	PDF	IES	3,529	125.1	17.9	PDF	IES	3,563	126.3	17.9	PDF	IES
3000	NA	24.4	2,821	115.6	17.2	PDF	IES	2,879	118.0	17.2	PDF	IES	2,995	122.7	17.3	PDF	IES	3,026	124.0	17.3	PDF	IES	3,056	125.2	17.4	PDF	IES
2500	NA	19.9	2,346	117.9	16.5	PDF	IES	2,394	120.3	16.5	PDF	IES	2,491	125.2	16.7	PDF	IES	2,516	126.4	16.8	PDF	IES	2,541	127.7	16.7	PDF	IES
2000	NA	16.3	1,887	115.8	15.7	PDF	IES	1,926	118.2	15.9	PDF	IES	2,006	123.1	15.9	PDF	IES	2,023	124.1	15.9	PDF	IES	2,044	125.4	16.0	PDF	IES
1500	NA	12.6	1,400	111.1	14.7	PDF	IES	1,429	113.4	14.7	PDF	IES	1,489	118.2	14.9	PDF	IES	1,500	119.0	14.9	PDF	IES	1,516	120.3	14.9	PDF	IES
1000	NA	9.2	932	101.3	13.3	PDF	IES	950	103.3	13.3	PDF	IES	992	107.8	13.5	PDF	IES	997	108.4	13.5	PDF	IES	1,009	109.7	13.6	PDF	IES

Direct (TM11) Performance 20° Asymmetric Wall Wash w/ MesoOptics louver

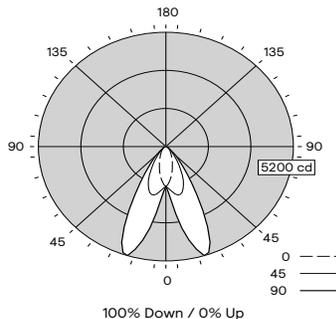
Nominal CRI & CCT			CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,731	120.7	18.1	PDF	IES	3,812	123.4	18.2	PDF	IES	3,960	128.2	18.3	PDF	IES	4,004	129.6	18.3	PDF	IES	4,044	130.9	18.4	PDF	IES
3500	NA	27.0	3,251	120.4	17.6	PDF	IES	3,319	122.9	17.7	PDF	IES	3,451	127.8	17.8	PDF	IES	3,488	129.2	17.8	PDF	IES	3,522	130.4	17.9	PDF	IES
3000	NA	23.3	2,787	119.6	17.1	PDF	IES	2,843	122.0	17.1	PDF	IES	2,958	127.0	17.3	PDF	IES	2,989	128.3	17.3	PDF	IES	3,018	129.5	17.3	PDF	IES
2500	NA	19.1	2,339	122.5	16.5	PDF	IES	2,387	125.0	16.5	PDF	IES	2,485	130.1	16.7	PDF	IES	2,509	131.4	16.7	PDF	IES	2,533	132.6	16.7	PDF	IES
2000	NA	15.6	1,862	119.4	15.7	PDF	IES	1,901	121.9	15.7	PDF	IES	1,979	126.9	15.9	PDF	IES	1,996	127.9	15.9	PDF	IES	2,017	129.3	15.9	PDF	IES
1500	NA	12.2	1,404	115.1	14.7	PDF	IES	1,433	117.5	14.8	PDF	IES	1,494	122.5	14.9	PDF	IES	1,505	123.4	14.9	PDF	IES	1,521	124.7	15.0	PDF	IES
1000	NA	8.8	918	104.3	13.2	PDF	IES	936	106.4	13.3	PDF	IES	978	111.1	13.4	PDF	IES	983	111.7	13.4	PDF	IES	994	113.0	13.5	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4Hx8HxH and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

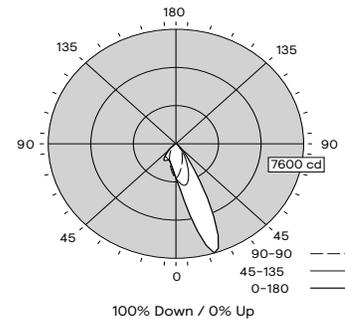
Performance 61° Symmetric Batwing MesoOptics louver
Spacing Criteria: 0.65/1.00



Performance 63° Symmetric Stack Beam MesoOptics louver
Spacing Criteria: 0.54/1.37



Performance 20° Asymmetric Wall Wash MesoOptics louver
Spacing Criteria: 1.29/0.59



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-12-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L12

TruGroove surface micro louver

Photometry

Direct (TM01) Performance 48° Medium Beam w/ MesoOptics louver

Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,828	123.9	15.7	PDF	IES	3,911	126.6	15.7	PDF	IES	4,063	131.5	15.9	PDF	IES	4,108	132.9	15.9	PDF	IES	4,150	134.3	16.0	PDF	IES		
3500	NA	27.0	3,336	123.6	15.2	PDF	IES	3,405	126.1	15.3	PDF	IES	3,541	131.1	15.4	PDF	IES	3,579	132.6	15.4	PDF	IES	3,614	133.9	15.5	PDF	IES		
3000	NA	23.3	2,860	122.7	14.7	PDF	IES	2,918	125.2	14.7	PDF	IES	3,036	130.3	14.9	PDF	IES	3,067	131.6	14.9	PDF	IES	3,097	132.9	14.9	PDF	IES		
2500	NA	19.1	2,400	125.7	14.1	PDF	IES	2,449	128.2	14.1	PDF	IES	2,549	133.5	14.3	PDF	IES	2,574	134.8	14.3	PDF	IES	2,599	136.1	14.3	PDF	IES		
2000	NA	15.6	1,911	122.5	13.3	PDF	IES	1,950	125.0	13.3	PDF	IES	2,031	130.2	13.5	PDF	IES	2,048	131.3	13.5	PDF	IES	2,069	132.6	13.5	PDF	IES		
1500	NA	12.2	1,441	118.1	12.3	PDF	IES	1,471	120.6	12.4	PDF	IES	1,533	125.7	12.5	PDF	IES	1,544	126.6	12.5	PDF	IES	1,560	127.9	12.6	PDF	IES		
1000	NA	8.8	942	107.0	10.8	PDF	IES	960	109.1	10.9	PDF	IES	1,003	114.0	11.0	PDF	IES	1,008	114.5	11.0	PDF	IES	1,020	115.9	11.1	PDF	IES		

Direct (TM11) Performance 27° Narrow Beam w/ MesoOptic louver

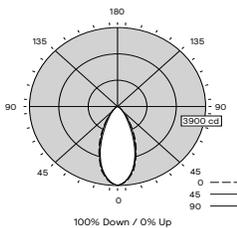
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,763	121.8	10.9	PDF	IES	3,844	124.4	11.0	PDF	IES	3,993	129.2	11.2	PDF	IES	4,038	130.7	11.2	PDF	IES	4,079	132.0	11.2	PDF	IES		
3500	NA	27.0	3,279	121.4	10.5	PDF	IES	3,347	124.0	10.5	PDF	IES	3,480	128.9	10.7	PDF	IES	3,518	130.3	10.7	PDF	IES	3,552	131.6	10.7	PDF	IES		
3000	NA	23.3	2,811	120.6	9.9	PDF	IES	2,868	123.1	10.0	PDF	IES	2,984	128.1	10.1	PDF	IES	3,015	129.4	10.2	PDF	IES	3,044	130.6	10.2	PDF	IES		
2500	NA	19.1	2,359	123.5	9.3	PDF	IES	2,407	126.0	9.4	PDF	IES	2,506	131.2	9.5	PDF	IES	2,530	132.5	9.6	PDF	IES	2,555	133.8	9.6	PDF	IES		
2000	NA	15.6	1,878	120.4	8.5	PDF	IES	1,917	122.9	8.6	PDF	IES	1,996	127.9	8.7	PDF	IES	2,013	129.0	8.8	PDF	IES	2,034	130.4	8.8	PDF	IES		
1500	NA	12.2	1,416	116.1	7.6	PDF	IES	1,446	118.5	7.6	PDF	IES	1,507	123.5	7.8	PDF	IES	1,517	124.3	7.8	PDF	IES	1,534	125.7	7.8	PDF	IES		
1000	NA	8.8	926	105.2	6.1	PDF	IES	944	107.3	6.1	PDF	IES	986	112.0	6.3	PDF	IES	991	112.6	6.3	PDF	IES	1,002	113.9	6.4	PDF	IES		

Direct (TM11) Performance 17° Graze Beam w/ MesoOptic louver

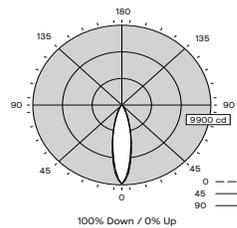
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,773	122.1	12.7	PDF	IES	3,855	124.8	12.7	PDF	IES	4,004	129.6	12.9	PDF	IES	4,049	131.0	12.9	PDF	IES	4,090	132.4	12.9	PDF	IES		
3500	NA	27.0	3,288	121.8	12.2	PDF	IES	3,356	124.3	12.3	PDF	IES	3,490	129.3	12.4	PDF	IES	3,527	130.6	12.4	PDF	IES	3,562	131.9	12.5	PDF	IES		
3000	NA	23.3	2,818	120.9	11.6	PDF	IES	2,876	123.4	11.7	PDF	IES	2,992	128.4	11.9	PDF	IES	3,023	129.7	11.9	PDF	IES	3,052	131.0	11.9	PDF	IES		
2500	NA	19.1	2,366	123.9	11.0	PDF	IES	2,414	126.4	11.1	PDF	IES	2,513	131.6	11.3	PDF	IES	2,537	132.8	11.3	PDF	IES	2,562	134.1	11.3	PDF	IES		
2000	NA	15.6	1,883	120.7	10.2	PDF	IES	1,922	123.2	10.3	PDF	IES	2,002	128.3	10.5	PDF	IES	2,019	129.4	10.5	PDF	IES	2,040	130.8	10.5	PDF	IES		
1500	NA	12.2	1,420	116.4	9.3	PDF	IES	1,450	118.9	9.3	PDF	IES	1,511	123.9	9.5	PDF	IES	1,522	124.8	9.5	PDF	IES	1,538	126.1	9.5	PDF	IES		
1000	NA	8.8	928	105.5	7.8	PDF	IES	946	107.5	7.9	PDF	IES	989	112.4	8.0	PDF	IES	994	113.0	8.0	PDF	IES	1,005	114.2	8.1	PDF	IES		

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4xHx8x1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

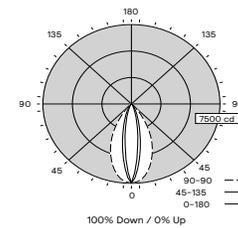
Performance Symmetric 48° Medium Beam MesoOptics louver Spacing Criteria: 0.75/0.70



Performance 27° Narrow Beam MesoOptics louver Spacing Criteria: 0.41/0.40



Performance 17° Graze Beam MesoOptics louver Spacing Criteria: 0.28/0.82



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.

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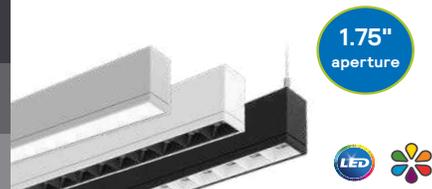
Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 2S3 Telephone: 800-668-9008

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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L14



TruGroove surface micro louver drives performance beyond the edge. Innovative optics deliver exceptional uniformity and wide row spacing from a 1.75" aperture continuous line of light. Unique Quad Optic louver cells offer a wide range of options from graze to stack to asymmetric wall wash exceeding the demands of the most challenging spaces.

TruGroove surface micro louver includes AccuRender technology for the highest color quality at the highest efficacy

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Line ID: _____ Qty: _____
 Notes: _____

Ordering guide¹²

example: TM11L940QRPC230NNN08DS1NCWS, SF

Family	Version	Distribution	Source	CRI/CCT ^{1, 5, 8, 16}
TM	1	1	L	
TM TruGroove micro	1 Surface	1 Direct	L LED	950 CRI 90, 5000K 940 CRI 90, 4000K 935 CRI 90, 3500K
				930 CRI 90, 3000K 927 CRI 90, 2700K 9T2 CRI 90, 2700-6500K 2ch Tunable White (confirm controls)
Optics (Direct)	Lumens (Direct) ^{1,16}	Optics (Indirect)	Lumens (Indirect)	Run Length ⁷
Lens ¹⁶	Louver Cell (specify quad optics, color, length, position) ^{8,15}	Lens		
N No lens (specify direct louver optic) Q Performance symmetric batwing flush MesoOptics W Performance asymmetric/wall wash flush MesoOptics B Definition symmetric flush black L Definition symmetric flush silk D Definition symmetric drop silk Note: To specify a lens/louver combination please select both lens and louver options.	Quad Optic N No louver (specify direct lens optic) G Performance 17° graze beam w/MesoOptics R Performance 27° narrow beam w/MesoOptics M Performance 48° medium beam w/MesoOptics S Performance 63° stack beam w/MesoOptics Q Performance 61° symmetric batwing w/MesoOptics W Performance 20° asymmetric wall wash w/MesoOptics Color N None B Black W White P Platinum G Gold C Copper Length N None C 6in (3 cells) 1 1ft (6 cells) F Full length Position N None 1 One end 2 Both ends F Full length	NN None 40 4000 lm/4ft 35 3500 lm/4ft 30 3000 lm/4ft 25 2500 lm/4ft 20 2000 lm/4ft 15 1500 lm/4ft 10 1000 lm/4ft 07 700 lm/4ft	N None NN None	02 2ft C2 2.5ft 03 3ft C3 3.5ft 04 4ft 05 5ft 06 6ft 08 8ft XX Continuous run in 6" increments (please specify) Surface Patterns: A4 2ft x 2ft Flat Corner (90°)
Voltage ³	Driver ^{3, 5}	Circuit ^{2, 10, 11}	Wiring Option ^{2,3,6,10,13}	System/Controls ^{4, 9, 14}
D UNV 120-277V 3 347V	E Advance Xitanium 0-10V (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack E Auxiliary wiring G GTD (please specify voltage)	NN None
D UNV 120-277V	D Advance Xitanium DALI (5% Dim) H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)			
D UNV 120-277V	S Advance Xitanium SR (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack R UL924 sensor bypass relay	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
D UNV 120-277V	F Advance FlexTune SR (1% Dim) 2 0-10V 2ch (1% Dim) 6 DALI DT6 2ch (1% Dim) 8 DALI DT8 2ch (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
Finish	Mount Type			
W Standard white T Titanium silver B Black	G Graphite gray C Custom (please specify color)	SF Surface mounted		

See footnotes on page 2.

SPECIFY FINISH

DLC Note: Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L14

TruGroove surface micro louver

Ordering guide footnotes

1. Nominal values within a range. Not all lumen packages are available with all configurations. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
 2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.
 3. 347V not available with Battery Pack, GTD, DALI, Lutron EcoSystem or Sensor Ready drivers or Interact Pro options. Battery packs available in modules > 4ft (lumen package limits may apply, check with Ledalite).
 4. Interact Pro options require separate controls hardware by Signify.
 5. Tunable White options are available with 2ch 0-10V, DALI-2 (DT6 or DT8) drivers. Please enquire about options such as or DMX control (extended lead times may apply).
 6. Auxiliary Wiring not available with Interact Pro luminaires. Aux sections are wired to one fixture end only.
 7. Flat corners are 90°. No asymmetric lens optics in corners. Please enquire about options for custom angles and intersections. for 2ft D/I configurations please consult factory. (Extended lead times may apply for these options).
 8. Tunable White not available with Louver Cell Optics.
 9. Integral sensors only recommended at ends of runs for best aesthetics. Mid run sensors can be provided in remote mounts. Integral sensors not available with Drop Lens options. Please enquire about options for remote sensors. Sensors must be combined with a Sensor Ready driver options. Default sensor color is white, fixtures with black finish have black sensors. (Consult factory for other combinations). Other third party sensors also available, please enquire about options for Lutron Athena, or others.
 10. Luminaires are pre-wired to both ends with quick wire connectors at one end for standard circuit & battery pack trigger wire (if applicable). Each circuit has its own neutral conductor. All circuits are clearly labelled at each end.
 11. Thru Wire options can provide either one additional set of (4) power and dimming wires (Black/White/Purple/Pink or Brown) or one additional battery pack trigger wire (Orange) through a selected module, please consult factory for other Thru Wire options.
 12. Other options not shown here may also be possible via a custom request. Extended lead times and minimum order quantities may apply, please consult factory.
 13. UL924 listed sensor bypass relay is factory installed between driver & sensor. Must be ordered in same module as integral sensing option. Consult Ledalite for other options. Must be installed in conjunction with a UL1008 device.
 14. Must order IRT9015 Interact commissioning remote with each system order.
 15. Combination modules with Louver Cells and a Flush Lens may be specified by using the "Louver Cell Length" and "Louver Cell Position" options.
 16. Black Lens limits direct lumens to 700 or 1000lm/4ft and indirect lumens to a max of 3000lm/4ft. Tunable White only in MesoOptic, Flush Silk or Drop Silk lenses, consult photometry data for lumens options of chosen configuration.
- Note:** Due to continuing product improvements, Ledalite reserves the right to change the specifications without notice



Job Name: CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer: LEDALITE BY SIGNIFY

Model Number: TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF

Notes: SPECIFY FINISH

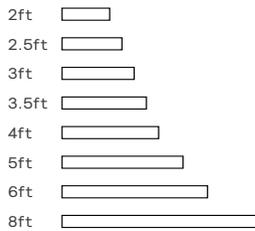
Type:
L14

TruGroove surface micro louver

Options and dimensions

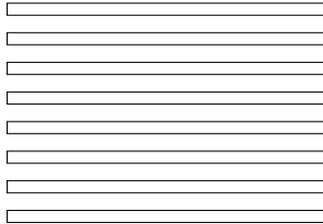
Standalone

Keep it simple with standalone modules, available in 8 standard lengths (consult Ledalite for custom lengths).



Continuous Run

Create an uninterrupted ribbon of light with continuous runs, specifiable to 6 in.



Patterns

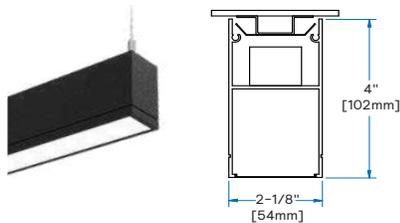
Seamlessly create any pattern imaginable (flat corners are 90°, contact Ledalite for custom angles and intersections).



Flush lens

TruGroove surface micro with 1.75" wide Flush MesoOptics or Silk lens.

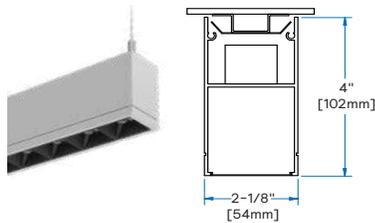
Direct



Louver

TruGroove surface micro with Ledalite's unique quad optic louver cells with MesoOptics in 6 distributions.

Direct



Louvers can be ordered at the full fixture length or in 6 in. or 1 ft sections at one or both ends of a fixture in combination with a lens.



Drop lens and black lens

TruGroove surface micro with drop lens and black lens options.





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

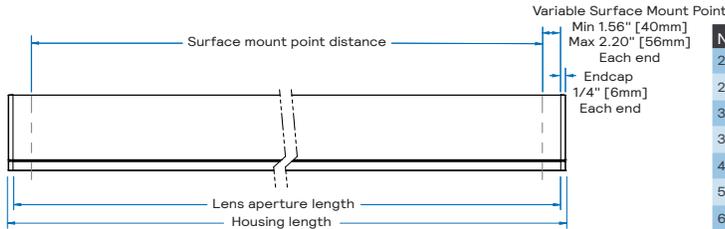
Type :
L14

TruGroove surface micro louver

Options and dimensions

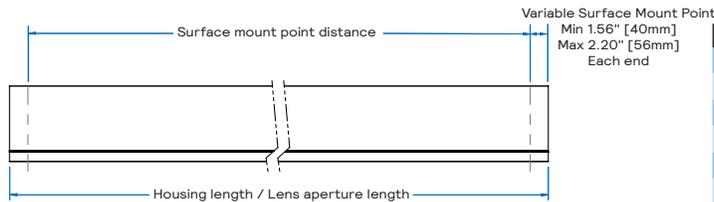
Side Views

Standalone



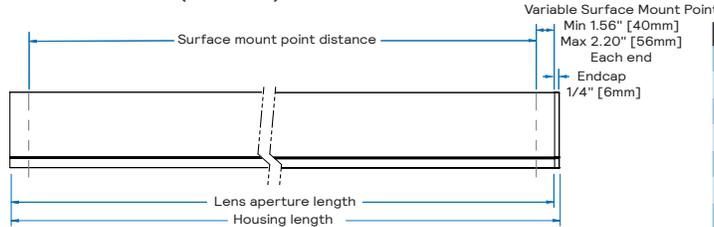
Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.5" [622mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.5" [775mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.5" [927mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.5" [1080mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.5" [1232mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.5" [1537mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.5" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	69.5" [2451mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Continuous Run (Mid-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.0" [610mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.0" [762mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.0" [914mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.0" [1067mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.0" [1219mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.0" [1524mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.0" [1829mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.0" [2438mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

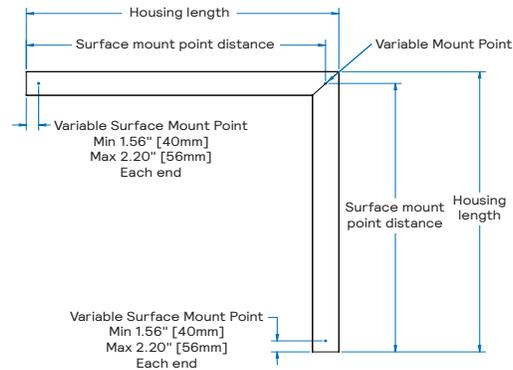
Continuous Run (End-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.25" [616mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.25" [768mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.25" [921mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.25" [1073mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.25" [1226mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.25" [1530mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.25" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.25" [2445mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Top View

Flat Corner 90°



Nominal	Housing	Surface Mount Point Distance
2ft x 2ft	25.1" [636mm]	23.80" ±0.2" [604 ±5mm]

Flat corners are 2ft x 2ft and can be used to create surface patterns. Flat corners are 90°, contact Ledalite for custom angles and intersections.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :

L14

TruGroove surface micro louver

Specifications

Optical System

Direct hemisphere: Light emitted from a linear array of downward-facing LEDs is laterally redirected using optical microstructures embedded in a layer of MesoOptics DX film to generate an optimal batwing distribution and a uniform continuum of light. The available Flush Silk Lens is a value-oriented option that provides a lambertian distribution while maintaining a uniform continuum of light.

Additionally, Ledalite's unique Quad Optic louver Cell provides 6 tailored optical distributions with reduced glare.

Housing

Post painted precision aluminum extrusion.

Endcaps

Diecast flat aluminum endcaps with integral groove to match housing.

Finish

High quality powder coated, available in standard Matte White, Black, Titanium Silver or Graphite Grey. TruGroove can also be specified in any custom color upon request for a one-time setup charge. Optional sensors (such as Interact Pro) available in white only.

Mounting

Surface: Fixture is mounted flush to surface using hidden brackets that attach to existing structure, variable between 0.6"-1.7" from end or joint.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Weight

Maximum 3.8/ft (surface mount), 10lb (2ft x 2ft surface mounted corner).

Electrical

Fixtures are factory pre-wired to section ends with quick-wire connectors and tested for all circuits and backup battery packs. LED boards and drivers are easily field replaceable with access from below the ceiling.

Standard Drivers

Advance Xitanium 0-10V, 1% Dimming.
Advance Xitanium DALI, 5% Dimming.
Advance Xitanium Sensor Ready, 1% Dimming.
Lutron EcoSystem LDE1, 1% Dimming with Soft-On and Fade-to-Black.
Class 2 rated output. Consult Ledalite for other available drivers.

Standard Battery Packs

Bodine Battery Pack, 90 min, 10W, Class 2 rated output.
Lumen output = 10W x luminaire efficacy x 1.1. Typical output ~1200lm.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-15. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is:
 $L_{80}(10k) > 60,000$ hours (Reported methodology).

Source Color

LEDs rated for color rendering of:
CRI $R_a \geq 90$, $R_g \geq 50$, $G_a \geq 97$, $C_g \geq 90$
IES TM-30-18 : $R_f \geq 90$, $R_{f,hi} \geq 89$, $R_g \geq 99$, $R_{ca,hi} \geq -5\%$

SPD and TM-30-18 reports available upon request

Fixture to fixture color accuracy within:

2 SDCM for Static White luminaires
3 SDCM for Tunable White luminaires

Approvals

Certified to UL, IES & CSA Standards.

Select TruGroove micro configurations contribute toward satisfying features L03, L04, L06, L07 and L08 under the WELL v2 Building Standard®.

Certain versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers.
www.designlights.org/QPL

TruGroove is Declare label certified. More information on the TruGroove label can be found on <https://declare.living-future.org/> and through the Declare ID **SGY-0007**.

Environment

Rated for dry or damp locations in operating ambient temperatures of 0-25°C (32-77°F).

Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur-based chemicals, petroleum-based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum-based solution or other contaminants are not covered under warranty. Not suitable for natatorium environments.

Warranty

Five-year luminaire limited warranty including LED boards and driver:
www.signify.com/warranties

QuickShip

10-day QuickShip available for most configurations upon request. More information available at:
www.signify.com/en-us/brands/ledalite/quickship



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L14

TruGroove surface micro louver

Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (CS an evolution of SpaceWise):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit:
www.interact-lighting.com/interactproscalablesystem

Emergency Options (R):

- Power Sensing (Factory default) – Recommended
- UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (Field option)
- Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact Pro scalable sensor bundles for Enterprise tier (SB):

- SB option, in addition to occupancy and daylight sensing, supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning. For more information, visit:
www.interact-lighting.com/office

Wired Controls Options

Tunable White:

- Control options for Tunable White with DALI (DT6 or DT8), 0-10V, or DMX control are available via an Engineered-to-Order (ETO) request.
- Signify tunable white solutions are designed to help maximize the influence of lighting on your daily life.
- Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Scene setting via lighting pre-sets based on various combinations of lighting color temperature and intensity.

Interact Pro scalable sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZeeBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZeeBee + Bluetooth	RADIO	RADIO	RA	RA
ZeeBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZeeBee + Highbay + Sensing	-	SWZCSH	-	-



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L14

TruGroove surface micro louver

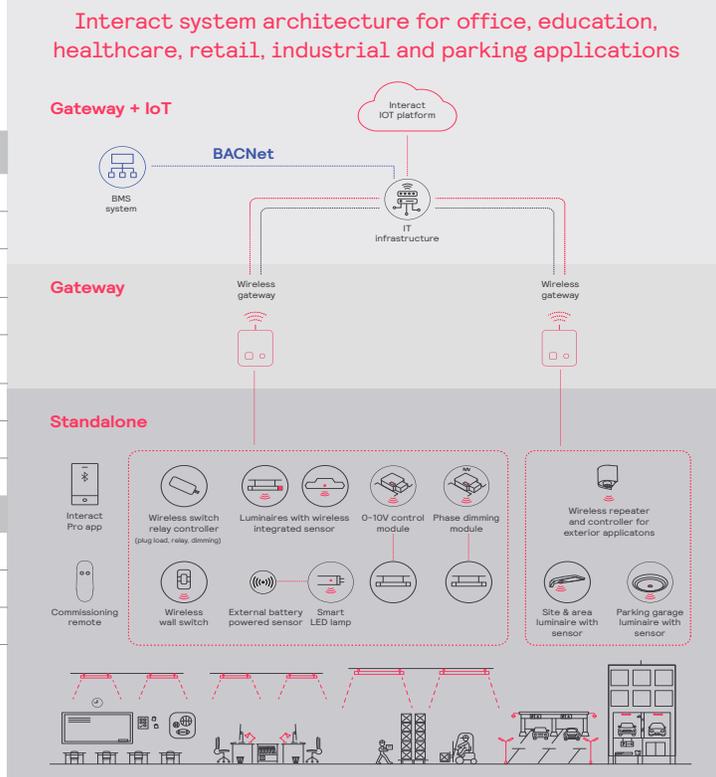
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

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Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :

L14

TruGroove surface micro louver

Colorimetry

TruGroove micro (TMxx) AccuRender Static White

Nominal CRI & CCT		CRI 90, 2700K	CRI 90, 3000K	CRI 90, 3500K	CRI 90, 4000K	CRI 90, 5000K
CIE 013.3-1995 ¹	CRI R _a	94	93	93	93	93
	R ₉	55	57	59	64	68
	G _a	99	99	99	99	99
	C _s	93	93	93	93	94
IES TM-30-18 ²	R _f	92	91	91	91	90
	R _{f,h1}	90	90	90	91	89
	R _g	100	100	99	100	100
	R _{cs,h1}	-6%	-5%	-6%	-5%	-5%
MDER ³		0.45	0.51	0.58	0.65	0.81

1. Color Rendering Index (CRI Ra) and Strong Red (R9) are calculated in accordance with CIE 013.3-1995. Color Gamut index (Ga) and red chroma Index (C9) are CIE based properties using the Global Lighting Association's calculation tool.
 2. Fidelity Index (Rf), Red Fidelity Index (Rf,h1), Gamut Index (Rg), and Red Local Chroma Shift (Rcs,h1) are calculated in accordance with IES TM-30-18.
 3. Melanopic Daylight Efficacy Ratio (MDER) is the measure for "spectral melanopic efficiency" as defined in CIE S 026-2018.

Photometry

The following pages contain photometry for TruGroove suspended micro with louvers.

Photometry for TruGroove suspended micro with Lens can be found by scanning the QR code or following the link: https://www.signify.com/api/assets/v1/file/Signify/content/b3b5c0da54fc4db38edaada3013a1b5a/TruGroove_Surface_Micro_Lens_SpecSheet_CST.pdf





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L14

TruGroove surface micro louver

Photometry

Direct (TM11) Performance 61° Symmetric Batwing w/ MesoOptics louver

Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	34.8	3,775	108.5	19.3	PDF	IES	3,862	111.0	19.4	PDF	IES	4,008	115.2	19.5	PDF	IES	4,052	116.4	19.6	PDF	IES	4,095	117.7	19.6	PDF	IES
3500	NA	30.1	3,288	109.2	18.8	PDF	IES	3,359	111.6	18.9	PDF	IES	3,490	115.9	19.1	PDF	IES	3,528	117.2	19.1	PDF	IES	3,564	118.4	19.1	PDF	IES
3000	NA	26.0	2,833	109.0	18.3	PDF	IES	2,891	111.2	18.4	PDF	IES	3,006	115.6	18.5	PDF	IES	3,039	116.9	18.6	PDF	IES	3,068	118.0	18.6	PDF	IES
2500	NA	21.1	2,348	111.3	17.7	PDF	IES	2,395	113.5	17.7	PDF	IES	2,493	118.2	17.9	PDF	IES	2,518	119.3	17.9	PDF	IES	2,543	120.5	18.0	PDF	IES
2000	NA	17.2	1,877	109.1	16.9	PDF	IES	1,915	111.3	17.0	PDF	IES	1,994	115.9	17.1	PDF	IES	2,012	117.0	17.1	PDF	IES	2,032	118.1	17.2	PDF	IES
1500	NA	13.4	1,421	106.0	15.9	PDF	IES	1,451	108.3	16.0	PDF	IES	1,512	112.8	16.1	PDF	IES	1,523	113.7	16.2	PDF	IES	1,539	114.9	16.2	PDF	IES
1000	NA	9.7	939	96.8	14.5	PDF	IES	958	98.8	14.6	PDF	IES	1,000	103.1	14.7	PDF	IES	1,006	103.7	14.7	PDF	IES	1,017	104.8	14.8	PDF	IES

Direct (TM11) Performance 63° Stack Beam w/ MesoOptics louver

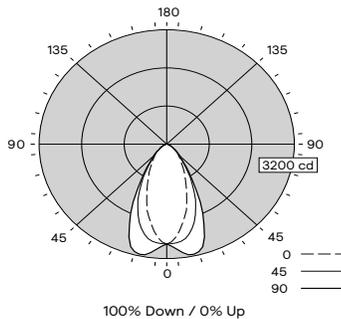
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	32.4	3,770	116.4	18.1	PDF	IES	3,853	118.9	18.2	PDF	IES	4,001	123.5	18.3	PDF	IES	4,046	124.9	18.4	PDF	IES	4,087	126.1	18.4	PDF	IES
3500	NA	28.2	3,289	116.6	17.6	PDF	IES	3,358	119.1	17.7	PDF	IES	3,490	123.8	17.8	PDF	IES	3,529	125.1	17.9	PDF	IES	3,563	126.3	17.9	PDF	IES
3000	NA	24.4	2,821	115.6	17.2	PDF	IES	2,879	118.0	17.2	PDF	IES	2,995	122.7	17.3	PDF	IES	3,026	124.0	17.3	PDF	IES	3,056	125.2	17.4	PDF	IES
2500	NA	19.9	2,346	117.9	16.5	PDF	IES	2,394	120.3	16.5	PDF	IES	2,491	125.2	16.7	PDF	IES	2,516	126.4	16.8	PDF	IES	2,541	127.7	16.7	PDF	IES
2000	NA	16.3	1,887	115.8	15.7	PDF	IES	1,926	118.2	15.9	PDF	IES	2,006	123.1	15.9	PDF	IES	2,023	124.1	15.9	PDF	IES	2,044	125.4	16.0	PDF	IES
1500	NA	12.6	1,400	111.1	14.7	PDF	IES	1,429	113.4	14.7	PDF	IES	1,489	118.2	14.9	PDF	IES	1,500	119.0	14.9	PDF	IES	1,516	120.3	14.9	PDF	IES
1000	NA	9.2	932	101.3	13.3	PDF	IES	950	103.3	13.3	PDF	IES	992	107.8	13.5	PDF	IES	997	108.4	13.5	PDF	IES	1,009	109.7	13.6	PDF	IES

Direct (TM11) Performance 20° Asymmetric Wall Wash w/ MesoOptics louver

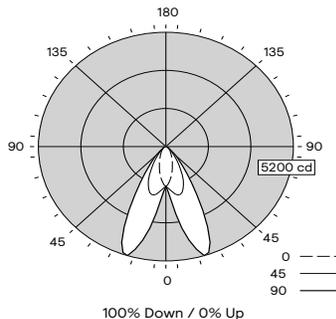
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,731	120.7	18.1	PDF	IES	3,812	123.4	18.2	PDF	IES	3,960	128.2	18.3	PDF	IES	4,004	129.6	18.3	PDF	IES	4,044	130.9	18.4	PDF	IES
3500	NA	27.0	3,251	120.4	17.6	PDF	IES	3,319	122.9	17.7	PDF	IES	3,451	127.8	17.8	PDF	IES	3,488	129.2	17.8	PDF	IES	3,522	130.4	17.9	PDF	IES
3000	NA	23.3	2,787	119.6	17.1	PDF	IES	2,843	122.0	17.1	PDF	IES	2,958	127.0	17.3	PDF	IES	2,989	128.3	17.3	PDF	IES	3,018	129.5	17.3	PDF	IES
2500	NA	19.1	2,339	122.5	16.5	PDF	IES	2,387	125.0	16.5	PDF	IES	2,485	130.1	16.7	PDF	IES	2,509	131.4	16.7	PDF	IES	2,533	132.6	16.7	PDF	IES
2000	NA	15.6	1,862	119.4	15.7	PDF	IES	1,901	121.9	15.7	PDF	IES	1,979	126.9	15.9	PDF	IES	1,996	127.9	15.9	PDF	IES	2,017	129.3	15.9	PDF	IES
1500	NA	12.2	1,404	115.1	14.7	PDF	IES	1,433	117.5	14.8	PDF	IES	1,494	122.5	14.9	PDF	IES	1,505	123.4	14.9	PDF	IES	1,521	124.7	15.0	PDF	IES
1000	NA	8.8	918	104.3	13.2	PDF	IES	936	106.4	13.3	PDF	IES	978	111.1	13.4	PDF	IES	983	111.7	13.4	PDF	IES	994	113.0	13.5	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4Hx8HxH and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

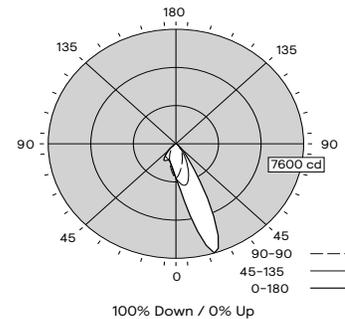
Performance 61° Symmetric Batwing MesoOptics louver
Spacing Criteria: 0.65/1.00



Performance 63° Symmetric Stack Beam MesoOptics louver
Spacing Criteria: 0.54/1.37



Performance 20° Asymmetric Wall Wash MesoOptics louver
Spacing Criteria: 1.29/0.59



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-14-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L14

TruGroove surface micro louver

Photometry

Direct (TM01) Performance 48° Medium Beam w/ MesoOptics louver

Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,828	123.9	15.7	PDF	IES	3,911	126.6	15.7	PDF	IES	4,063	131.5	15.9	PDF	IES	4,108	132.9	15.9	PDF	IES	4,150	134.3	16.0	PDF	IES		
3500	NA	27.0	3,336	123.6	15.2	PDF	IES	3,405	126.1	15.3	PDF	IES	3,541	131.1	15.4	PDF	IES	3,579	132.6	15.4	PDF	IES	3,614	133.9	15.5	PDF	IES		
3000	NA	23.3	2,860	122.7	14.7	PDF	IES	2,918	125.2	14.7	PDF	IES	3,036	130.3	14.9	PDF	IES	3,067	131.6	14.9	PDF	IES	3,097	132.9	14.9	PDF	IES		
2500	NA	19.1	2,400	125.7	14.1	PDF	IES	2,449	128.2	14.1	PDF	IES	2,549	133.5	14.3	PDF	IES	2,574	134.8	14.3	PDF	IES	2,599	136.1	14.3	PDF	IES		
2000	NA	15.6	1,911	122.5	13.3	PDF	IES	1,950	125.0	13.3	PDF	IES	2,031	130.2	13.5	PDF	IES	2,048	131.3	13.5	PDF	IES	2,069	132.6	13.5	PDF	IES		
1500	NA	12.2	1,441	118.1	12.3	PDF	IES	1,471	120.6	12.4	PDF	IES	1,533	125.7	12.5	PDF	IES	1,544	126.6	12.5	PDF	IES	1,560	127.9	12.6	PDF	IES		
1000	NA	8.8	942	107.0	10.8	PDF	IES	960	109.1	10.9	PDF	IES	1,003	114.0	11.0	PDF	IES	1,008	114.5	11.0	PDF	IES	1,020	115.9	11.1	PDF	IES		

Direct (TM11) Performance 27° Narrow Beam w/ MesoOptic louver

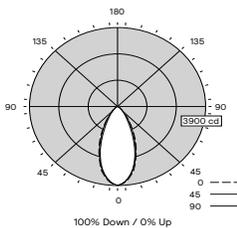
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,763	121.8	10.9	PDF	IES	3,844	124.4	11.0	PDF	IES	3,993	129.2	11.2	PDF	IES	4,038	130.7	11.2	PDF	IES	4,079	132.0	11.2	PDF	IES		
3500	NA	27.0	3,279	121.4	10.5	PDF	IES	3,347	124.0	10.5	PDF	IES	3,480	128.9	10.7	PDF	IES	3,518	130.3	10.7	PDF	IES	3,552	131.6	10.7	PDF	IES		
3000	NA	23.3	2,811	120.6	9.9	PDF	IES	2,868	123.1	10.0	PDF	IES	2,984	128.1	10.1	PDF	IES	3,015	129.4	10.2	PDF	IES	3,044	130.6	10.2	PDF	IES		
2500	NA	19.1	2,359	123.5	9.3	PDF	IES	2,407	126.0	9.4	PDF	IES	2,506	131.2	9.5	PDF	IES	2,530	132.5	9.6	PDF	IES	2,555	133.8	9.6	PDF	IES		
2000	NA	15.6	1,878	120.4	8.5	PDF	IES	1,917	122.9	8.6	PDF	IES	1,996	127.9	8.7	PDF	IES	2,013	129.0	8.8	PDF	IES	2,034	130.4	8.8	PDF	IES		
1500	NA	12.2	1,416	116.1	7.6	PDF	IES	1,446	118.5	7.6	PDF	IES	1,507	123.5	7.8	PDF	IES	1,517	124.3	7.8	PDF	IES	1,534	125.7	7.8	PDF	IES		
1000	NA	8.8	926	105.2	6.1	PDF	IES	944	107.3	6.1	PDF	IES	986	112.0	6.3	PDF	IES	991	112.6	6.3	PDF	IES	1,002	113.9	6.4	PDF	IES		

Direct (TM11) Performance 17° Graze Beam w/ MesoOptic louver

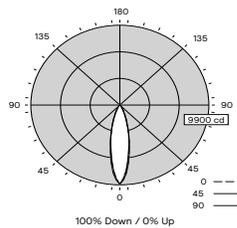
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,773	122.1	12.7	PDF	IES	3,855	124.8	12.7	PDF	IES	4,004	129.6	12.9	PDF	IES	4,049	131.0	12.9	PDF	IES	4,090	132.4	12.9	PDF	IES		
3500	NA	27.0	3,288	121.8	12.2	PDF	IES	3,356	124.3	12.3	PDF	IES	3,490	129.3	12.4	PDF	IES	3,527	130.6	12.4	PDF	IES	3,562	131.9	12.5	PDF	IES		
3000	NA	23.3	2,818	120.9	11.6	PDF	IES	2,876	123.4	11.7	PDF	IES	2,992	128.4	11.9	PDF	IES	3,023	129.7	11.9	PDF	IES	3,052	131.0	11.9	PDF	IES		
2500	NA	19.1	2,366	123.9	11.0	PDF	IES	2,414	126.4	11.1	PDF	IES	2,513	131.6	11.3	PDF	IES	2,537	132.8	11.3	PDF	IES	2,562	134.1	11.3	PDF	IES		
2000	NA	15.6	1,883	120.7	10.2	PDF	IES	1,922	123.2	10.3	PDF	IES	2,002	128.3	10.5	PDF	IES	2,019	129.4	10.5	PDF	IES	2,040	130.8	10.5	PDF	IES		
1500	NA	12.2	1,420	116.4	9.3	PDF	IES	1,450	118.9	9.3	PDF	IES	1,511	123.9	9.5	PDF	IES	1,522	124.8	9.5	PDF	IES	1,538	126.1	9.5	PDF	IES		
1000	NA	8.8	928	105.5	7.8	PDF	IES	946	107.5	7.9	PDF	IES	989	112.4	8.0	PDF	IES	994	113.0	8.0	PDF	IES	1,005	114.2	8.1	PDF	IES		

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4xHx8x1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

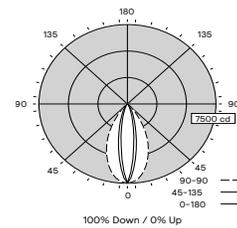
Performance Symmetric 48° Medium Beam MesoOptics louver Spacing Criteria: 0.75/0.70



Performance 27° Narrow Beam MesoOptics louver Spacing Criteria: 0.41/0.40



Performance 17° Graze Beam MesoOptics louver Spacing Criteria: 0.28/0.82



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.

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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L15



TruGroove surface micro louver drives performance beyond the edge. Innovative optics deliver exceptional uniformity and wide row spacing from a 1.75" aperture continuous line of light. Unique Quad Optic louver cells offer a wide range of options from graze to stack to asymmetric wall wash exceeding the demands of the most challenging spaces.

TruGroove surface micro louver includes AccuRender technology for the highest color quality at the highest efficacy

Project: _____
 Location: _____
 Cat.No: _____
 Type: _____
 Line ID: _____ Qty: _____
 Notes: _____

Ordering guide¹²

example: TM11L940QRPC230NNN08DS1NCWS, SF

Family	Version	Distribution	Source	CRI/CCT ^{1, 5, 8, 16}
TM	1	1	L	
TM TruGroove micro	1 Surface	1 Direct	L LED	950 CRI 90, 5000K 940 CRI 90, 4000K 935 CRI 90, 3500K
				930 CRI 90, 3000K 927 CRI 90, 2700K 9T2 CRI 90, 2700-6500K 2ch Tunable White (confirm controls)
Optics (Direct)	Lumens (Direct) ^{1,16}	Optics (Indirect)	Lumens (Indirect)	Run Length ⁷
Lens ¹⁶	Louver Cell (specify quad optics, color, length, position) ^{8,15}	Lens		
N No lens (specify direct louver optic) Q Performance symmetric batwing flush MesoOptics W Performance asymmetric/wall wash flush MesoOptics B Definition symmetric flush black L Definition symmetric flush silk D Definition symmetric drop silk Note: To specify a lens/louver combination please select both lens and louver options.	Quad Optic N No louver (specify direct lens optic) G Performance 17° graze beam w/MesoOptics R Performance 27° narrow beam w/MesoOptics M Performance 48° medium beam w/MesoOptics S Performance 63° stack beam w/MesoOptics Q Performance 61° symmetric batwing w/MesoOptics W Performance 20° asymmetric wall wash w/MesoOptics Color N None B Black W White P Platinum G Gold C Copper Length N None C 6in (3 cells) 1 1ft (6 cells) F Full length Position N None 1 One end 2 Both ends F Full length	NN None 40 4000 lm/4ft 35 3500 lm/4ft 30 3000 lm/4ft 25 2500 lm/4ft 20 2000 lm/4ft 15 1500 lm/4ft 10 1000 lm/4ft 07 700 lm/4ft	N None NN None	02 2ft C2 2.5ft 03 3ft C3 3.5ft 04 4ft 05 5ft 06 6ft 08 8ft XX Continuous run in 6" increments (please specify) Surface Patterns: A4 2ft x 2ft Flat Corner (90°)
Voltage ³	Driver ^{3, 5}	Circuit ^{2, 10, 11}	Wiring Option ^{2,3,6,10,13}	System/Controls ^{4, 9, 14}
D UNV 120-277V 3 347V	E Advance Xitanium 0-10V (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack E Auxiliary wiring G GTD (please specify voltage)	NN None
D UNV 120-277V	D Advance Xitanium DALI (5% Dim) H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)			
D UNV 120-277V	S Advance Xitanium SR (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None B Battery pack R UL924 sensor bypass relay	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
D UNV 120-277V	F Advance FlexTune SR (1% Dim) 2 0-10V 2ch (1% Dim) 6 DALI DT6 2ch (1% Dim) 8 DALI DT8 2ch (1% Dim)	1 Single Circuit V Single Circuit + 1 Thru Wire (BP Trigger)	N None	NN None CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time SB Interact Pro wireless sensor with occupancy, daylight, and environmental sensing capabilities
Finish	Mount Type			
W Standard white T Titanium silver B Black	G Graphite gray C Custom (please specify color)	SF Surface mounted		

See footnotes on page 2.

SPECIFY FINISH

DLC Note: Not all product variations listed on this page are DLC qualified. To ensure that a specific model is qualified, visit www.designlights.org/search





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L15

TruGroove surface micro louver

Ordering guide footnotes

1. Nominal values within a range. Not all lumen packages are available with all configurations. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
 2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available options.
 3. 347V not available with Battery Pack, GTD, DALI, Lutron EcoSystem or Sensor Ready drivers or Interact Pro options. Battery packs available in modules > 4ft (lumen package limits may apply, check with Ledalite).
 4. Interact Pro options require separate controls hardware by Signify.
 5. Tunable White options are available with 2ch 0-10V, DALI-2 (DT6 or DT8) drivers. Please enquire about options such as or DMX control (extended lead times may apply).
 6. Auxiliary Wiring not available with Interact Pro luminaires. Aux sections are wired to one fixture end only.
 7. Flat corners are 90°. No asymmetric lens optics in corners. Please enquire about options for custom angles and intersections. for 2ft D/I configurations please consult factory. (Extended lead times may apply for these options).
 8. Tunable White not available with Louver Cell Optics.
 9. Integral sensors only recommended at ends of runs for best aesthetics. Mid run sensors can be provided in remote mounts. Integral sensors not available with Drop Lens options. Please enquire about options for remote sensors. Sensors must be combined with a Sensor Ready driver options. Default sensor color is white, fixtures with black finish have black sensors. (Consult factory for other combinations). Other third party sensors also available, please enquire about options for Lutron Athena, or others.
 10. Luminaires are pre-wired to both ends with quick wire connectors at one end for standard circuit & battery pack trigger wire (if applicable). Each circuit has its own neutral conductor. All circuits are clearly labelled at each end.
 11. Thru Wire options can provide either one additional set of (4) power and dimming wires (Black/White/Purple/Pink or Brown) or one additional battery pack trigger wire (Orange) through a selected module, please consult factory for other Thru Wire options.
 12. Other options not shown here may also be possible via a custom request. Extended lead times and minimum order quantities may apply, please consult factory.
 13. UL924 listed sensor bypass relay is factory installed between driver & sensor. Must be ordered in same module as integral sensing option. Consult Ledalite for other options. Must be installed in conjunction with a UL1008 device.
 14. Must order IRT9015 Interact commissioning remote with each system order.
 15. Combination modules with Louver Cells and a Flush Lens may be specified by using the "Louver Cell Length" and "Louver Cell Position" options.
 16. Black Lens limits direct lumens to 700 or 1000lm/4ft and indirect lumens to a max of 3000lm/4ft. Tunable White only in MesoOptic, Flush Silk or Drop Silk lenses, consult photometry data for lumens options of chosen configuration.
- Note:** Due to continuing product improvements, Ledalite reserves the right to change the specifications without notice



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

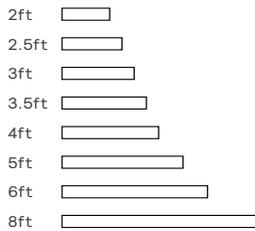
Type :
L15

TruGroove surface micro louver

Options and dimensions

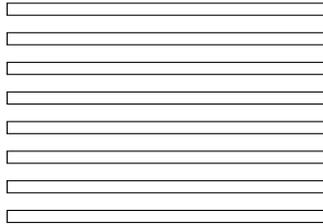
Standalone

Keep it simple with standalone modules, available in 8 standard lengths (consult Ledalite for custom lengths).



Continuous Run

Create an uninterrupted ribbon of light with continuous runs, specifiable to 6 in.



Patterns

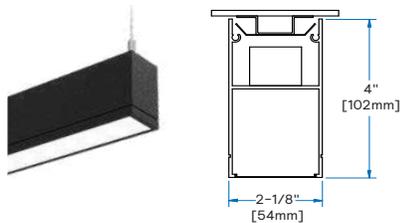
Seamlessly create any pattern imaginable (flat corners are 90°, contact Ledalite for custom angles and intersections).



Flush lens

TruGroove surface micro with 1.75" wide Flush MesoOptics or Silk lens.

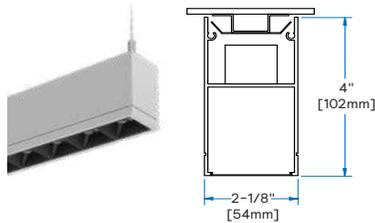
Direct



Louver

TruGroove surface micro with Ledalite's unique quad optic louver cells with MesoOptics in 6 distributions.

Direct



Louvers can be ordered at the full fixture length or in 6 in. or 1 ft sections at one or both ends of a fixture in combination with a lens.



Drop lens and black lens

TruGroove surface micro with drop lens and black lens options.





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

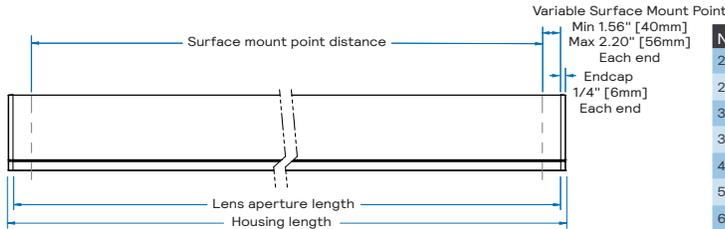
Type :
L15

TruGroove surface micro louver

Options and dimensions

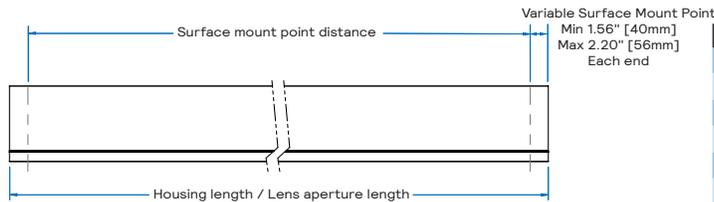
Side Views

Standalone



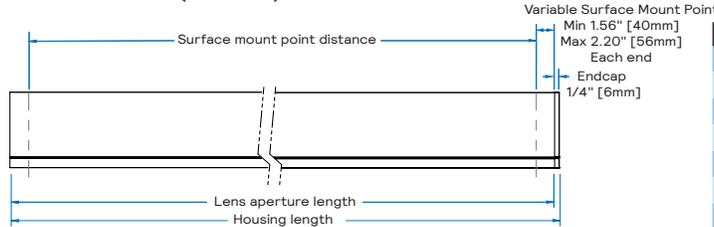
Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.5" [622mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.5" [775mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.5" [927mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.5" [1080mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.5" [1232mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.5" [1537mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.5" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	69.5" [2451mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Continuous Run (Mid-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.0" [610mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.0" [762mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.0" [914mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.0" [1067mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.0" [1219mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.0" [1524mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.0" [1829mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.0" [2438mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

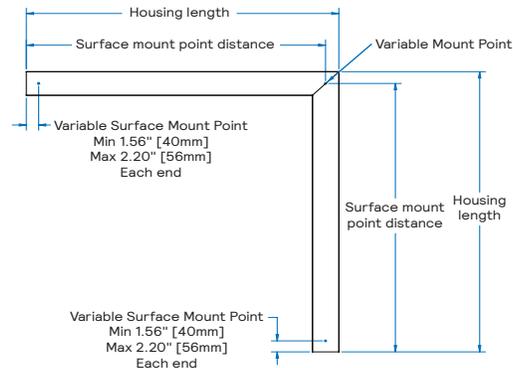
Continuous Run (End-run)



Nominal	Housing	Lens Aperture	Surface Mount Point Distance
2ft	24.25" [616mm]	24.0" [610mm]	19.60" [498mm] to 20.86" [530mm]
2.5ft	30.25" [768mm]	30.0" [762mm]	25.60" [650mm] to 26.860" [682mm]
3ft	36.25" [921mm]	36.0" [914mm]	31.60" [803] to 32.860" [835mm]
3.5ft	42.25" [1073mm]	42.0" [1067mm]	37.60" [955mm] to 38.86" [987mm]
4ft	48.25" [1226mm]	48.0" [1219mm]	43.60" [1107mm] to 44.86" [1139mm]
5ft	60.25" [1530mm]	60.0" [1524mm]	55.60" [1412mm] to 56.86" [1444mm]
6ft	72.25" [1842mm]	72.0" [1829mm]	67.60" [1717mm] to 68.86 [1749mm]
8ft	96.25" [2445mm]	96.0" [2438mm]	91.60 [2327mm] to 92.86 [2359mm]

Top View

Flat Corner 90°



Nominal	Housing	Surface Mount Point Distance
2ft x 2ft	25.1" [636mm]	23.80" ±0.2" [604 ±5mm]

Flat corners are 2ft x 2ft and can be used to create surface patterns. Flat corners are 90°, contact Ledalite for custom angles and intersections.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L15

TruGroove surface micro louver

Specifications

Optical System

Direct hemisphere: Light emitted from a linear array of downward-facing LEDs is laterally redirected using optical microstructures embedded in a layer of MesoOptics DX film to generate an optimal batwing distribution and a uniform continuum of light. The available Flush Silk Lens is a value-oriented option that provides a lambertian distribution while maintaining a uniform continuum of light.

Additionally, Ledalite's unique Quad Optic louver Cell provides 6 tailored optical distributions with reduced glare.

Housing

Post painted precision aluminum extrusion.

Endcaps

Diecast flat aluminum endcaps with integral groove to match housing.

Finish

High quality powder coated, available in standard Matte White, Black, Titanium Silver or Graphite Grey. TruGroove can also be specified in any custom color upon request for a one-time setup charge. Optional sensors (such as Interact Pro) available in white only.

Mounting

Surface: Fixture is mounted flush to surface using hidden brackets that attach to existing structure, variable between 0.6"-1.7" from end or joint.

Joints

Self-aligning joining system with hands-free pre-joining wire access.

Weight

Maximum 3.8/ft (surface mount), 10lb (2ft x 2ft surface mounted corner).

Electrical

Fixtures are factory pre-wired to section ends with quick-wire connectors and tested for all circuits and backup battery packs. LED boards and drivers are easily field replaceable with access from below the ceiling.

Standard Drivers

Advance Xitanium 0-10V, 1% Dimming.
Advance Xitanium DALI, 5% Dimming.
Advance Xitanium Sensor Ready, 1% Dimming.
Lutron EcoSystem LDE1, 1% Dimming with Soft-On and Fade-to-Black.
Class 2 rated output. Consult Ledalite for other available drivers.

Standard Battery Packs

Bodine Battery Pack, 90 min, 10W, Class 2 rated output.
Lumen output = 10W x luminaire efficacy x 1.1. Typical output ~1200lm.

Lumen Maintenance

LEDs have been tested by the manufacturer in accordance with IESNA LM-80-15. At an ambient temperature of 25°C, the LED lumen maintenance expectation according to IES TM-21-11 is:
 $L_{80}(10k) > 60,000$ hours (Reported methodology).

Source Color

LEDs rated for color rendering of:
CRI $R_a \geq 90$, $R_g \geq 50$, $G_a \geq 97$, $C_g \geq 90$
IES TM-30-18 : $R_f \geq 90$, $R_{f,hi} \geq 89$, $R_g \geq 99$, $R_{cs,hi} \geq -5\%$

SPD and TM-30-18 reports available upon request

Fixture to fixture color accuracy within:

2 SDCM for Static White luminaires
3 SDCM for Tunable White luminaires

Approvals

Certified to UL, IES & CSA Standards.

Select TruGroove micro configurations contribute toward satisfying features L03, L04, L06, L07 and L08 under the WELL v2 Building Standard®.

Certain versions without battery packs are DesignLights Consortium® qualified. Please see the DLC QPL list for exact catalog numbers.
www.designlights.org/QPL

TruGroove is Declare label certified. More information on the TruGroove label can be found on <https://declare.living-future.org/> and through the Declare ID **SGY-0007**.

Environment

Rated for dry or damp locations in operating ambient temperatures of 0-25°C (32-77°F).

Many luminaire components, such as reflectors, refractors, lenses, and LEDs are made from various types of plastics which can be adversely affected by airborne contaminants. If sulfur-based chemicals, petroleum-based products, cleaning solutions, or other contaminants are expected in the intended area of use, consult factory for compatibility. Damage caused by sulfur, chlorine, petroleum-based solution or other contaminants are not covered under warranty. Not suitable for natatorium environments.

Warranty

Five-year luminaire limited warranty including LED boards and driver:
www.signify.com/warranties

QuickShip

10-day QuickShip available for most configurations upon request. More information available at:
www.signify.com/en-us/brands/ledalite/quickship



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :

L15

TruGroove surface micro louver

Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (CS an evolution of SpaceWise):

- CS is a connected sensor with integral occupancy and daylight sensing and supports wireless mesh connectivity.
- The sensor works in the Foundation mode (similar to SpaceWise) when configured without a gateway or in an Interact Pro Advanced or Enterprise mode if a compatible gateway is used.
- Interact Pro includes an App, a portal and a broad portfolio of wireless luminaires, lamps and retrofit kits all working on the same system.
- Startup is implemented via Interact Pro App (Android or iPhone) & Bluetooth connectivity. The App provides flexibility to choose between a gateway or non gateway mode for setup.
- Setup with the gateway requires wired internet access to the gateway. It is possible to add a gateway at a later point.
- Prepare project configuration steps remotely and use IRT9015 remote onsite to identify and group devices together.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- For more information on Interact Pro visit:
www.interact-lighting.com/interactproscalablesystem

Emergency Options (R):

- Power Sensing (Factory default) – Recommended
- UL924 option requires unswitched power sense line, absence of voltage on the normal circuit triggers luminaire to 100% output.
- Power Interruption Detection (Field option)
- Detects AC power interruption >30ms triggers 90 minute emergency mode with luminaire at 100% output.

Interact Pro scalable sensor bundles for Enterprise tier (SB):

- SB option, in addition to occupancy and daylight sensing, supports advanced IoT capabilities such as people estimation analysis, desk level temperature & humidity sensing, noise classification, and BLE beacon.
- Compatible with UID8451/10 wireless dimmer switch, SWS200 wireless scene switch, wireless Occ sensor (OCC SENSOR IA CM IP42 WH 10/1) and wireless Day/Occ sensor (OCC MULTI SENSOR IA CM WH 10/1).
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Requires compatible Gateway and internet connectivity for commissioning. For more information, visit:
www.interact-lighting.com/office

Wired Controls Options

Tunable White:

- Control options for Tunable White with DALI (DT6 or DT8), 0-10V, or DMX control are available via an Engineered-to-Order (ETO) request.
- Signify tunable white solutions are designed to help maximize the influence of lighting on your daily life.
- Dynamic behaviors via scheduled lighting recipes mimicking daylight patterns or supporting biorhythms.
- Scene setting via lighting pre-sets based on various combinations of lighting color temperature and intensity.

Interact Pro scalable sensor option codes across Genlyte product lines

	Evokit	Day-Brite	Ledalite	Lightolier
ZeeBee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
ZeeBee + Bluetooth	RADIO	RADIO	RA	RA
ZeeBee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
ZeeBee + Highbay + Sensing	-	SWZCSH	-	-



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L15

TruGroove surface micro louver

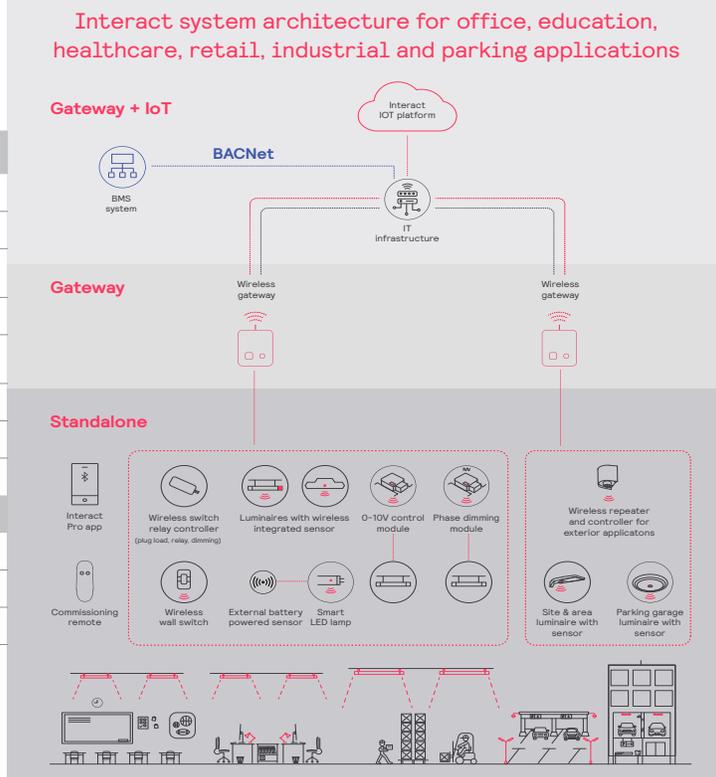
Functionalities overview

	The three tiers of Interact		
	Standalone	Gateway	Gateway + IoT
Dimming, grouping, and zoning	✓	✓	✓
Bluetooth and ZigBee enabled	✓	✓	✓
Motion sensing and daylight harvesting	✓	✓	✓
Integration with 0-10V and phase dimming fixtures	✓	✓	✓
Code compliance	✓	✓	✓
Granular dimming and dwell time	✓	✓	✓
New Correlated color temperature (CCT) tuning by switch	✓	✓	✓
New Support for sensor-based Tunable White luminaires	✓	✓	✓
Energy reporting and monitoring		✓	✓
Scheduling		✓	✓
Demand response		✓	✓
BMS integration (BACnet)			✓
Floor plan visualization			✓
IoT sensors for wellness			✓
IoT Apps for productivity			✓

Currently supported maximum system size

To be able to design the lighting system correctly for the customer, it is important to know the prime characteristics of the system, its possibilities and limitations.

System level	
Total number of gateways	Unlimited
Total number of devices	200 per network
• luminaires with integrated sensors	150
• smart TLEDS	150
Total number of ZGP devices (sensors and switches)	50
• sensors	30
• switches	50
• zones and groups	64
Group level	
Recommended number of lights	40 (recommended 25)
Number of ZGP devices	5
Number of scenes	16





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type :
L15

TruGroove surface micro louver

Colorimetry

TruGroove micro (TMxx) AccuRender Static White

Nominal CRI & CCT		CRI 90, 2700K	CRI 90, 3000K	CRI 90, 3500K	CRI 90, 4000K	CRI 90, 5000K
CIE 013.3-1995 ¹	CRI R _a	94	93	93	93	93
	R ₉	55	57	59	64	68
	G _a	99	99	99	99	99
	C _s	93	93	93	93	94
IES TM-30-18 ²	R _f	92	91	91	91	90
	R _{f,h1}	90	90	90	91	89
	R _g	100	100	99	100	100
	R _{cs,h1}	-6%	-5%	-6%	-5%	-5%
MDER ³		0.45	0.51	0.58	0.65	0.81

1. Color Rendering Index (CRI Ra) and Strong Red (R9) are calculated in accordance with CIE 013.3-1995. Color Gamut Index (Ga) and red chroma Index (C9) are CIE based properties using the Global Lighting Association's calculation tool.

2. Fidelity Index (Rf), Red Fidelity Index (Rf,h1), Gamut Index (Rg), and Red Local Chroma Shift (Rcs,h1) are calculated in accordance with IES TM-30-18.

3. Melanopic Daylight Efficacy Ratio (MDER) is the measure for "spectral melanopic efficiency" as defined in CIE S 026-2018.

Photometry

The following pages contain photometry for TruGroove suspended micro with louvers.

Photometry for TruGroove suspended micro with Lens can be found by scanning the QR code or following the link: https://www.signify.com/api/assets/v1/file/Signify/content/b3b5c0da54fc4db38edaada3013a1b5a/TruGroove_Surface_Micro_Lens_SpecSheet_CST.pdf





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : LEDALITE BY SIGNIFY

Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF

Notes : SPECIFY FINISH

Type : L15

TruGroove surface micro louver

Photometry

Direct (TM11) Performance 61° Symmetric Batwing w/ MesoOptics louver

Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	34.8	3,775	108.5	19.3	PDF	IES	3,862	111.0	19.4	PDF	IES	4,008	115.2	19.5	PDF	IES	4,052	116.4	19.6	PDF	IES	4,095	117.7	19.6	PDF	IES
3500	NA	30.1	3,288	109.2	18.8	PDF	IES	3,359	111.6	18.9	PDF	IES	3,490	115.9	19.1	PDF	IES	3,528	117.2	19.1	PDF	IES	3,564	118.4	19.1	PDF	IES
3000	NA	26.0	2,833	109.0	18.3	PDF	IES	2,891	111.2	18.4	PDF	IES	3,006	115.6	18.5	PDF	IES	3,039	116.9	18.6	PDF	IES	3,068	118.0	18.6	PDF	IES
2500	NA	21.1	2,348	111.3	17.7	PDF	IES	2,395	113.5	17.7	PDF	IES	2,493	118.2	17.9	PDF	IES	2,518	119.3	17.9	PDF	IES	2,543	120.5	18.0	PDF	IES
2000	NA	17.2	1,877	109.1	16.9	PDF	IES	1,915	111.3	17.0	PDF	IES	1,994	115.9	17.1	PDF	IES	2,012	117.0	17.1	PDF	IES	2,032	118.1	17.2	PDF	IES
1500	NA	13.4	1,421	106.0	15.9	PDF	IES	1,451	108.3	16.0	PDF	IES	1,512	112.8	16.1	PDF	IES	1,523	113.7	16.2	PDF	IES	1,539	114.9	16.2	PDF	IES
1000	NA	9.7	939	96.8	14.5	PDF	IES	958	98.8	14.6	PDF	IES	1,000	103.1	14.7	PDF	IES	1,006	103.7	14.7	PDF	IES	1,017	104.8	14.8	PDF	IES

Direct (TM11) Performance 63° Stack Beam w/ MesoOptics louver

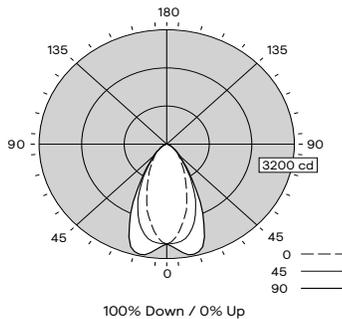
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	32.4	3,770	116.4	18.1	PDF	IES	3,853	118.9	18.2	PDF	IES	4,001	123.5	18.3	PDF	IES	4,046	124.9	18.4	PDF	IES	4,087	126.1	18.4	PDF	IES
3500	NA	28.2	3,289	116.6	17.6	PDF	IES	3,358	119.1	17.7	PDF	IES	3,490	123.8	17.8	PDF	IES	3,529	125.1	17.9	PDF	IES	3,563	126.3	17.9	PDF	IES
3000	NA	24.4	2,821	115.6	17.2	PDF	IES	2,879	118.0	17.2	PDF	IES	2,995	122.7	17.3	PDF	IES	3,026	124.0	17.3	PDF	IES	3,056	125.2	17.4	PDF	IES
2500	NA	19.9	2,346	117.9	16.5	PDF	IES	2,394	120.3	16.5	PDF	IES	2,491	125.2	16.7	PDF	IES	2,516	126.4	16.8	PDF	IES	2,541	127.7	16.7	PDF	IES
2000	NA	16.3	1,887	115.8	15.7	PDF	IES	1,926	118.2	15.9	PDF	IES	2,006	123.1	15.9	PDF	IES	2,023	124.1	15.9	PDF	IES	2,044	125.4	16.0	PDF	IES
1500	NA	12.6	1,400	111.1	14.7	PDF	IES	1,429	113.4	14.7	PDF	IES	1,489	118.2	14.9	PDF	IES	1,500	119.0	14.9	PDF	IES	1,516	120.3	14.9	PDF	IES
1000	NA	9.2	932	101.3	13.3	PDF	IES	950	103.3	13.3	PDF	IES	992	107.8	13.5	PDF	IES	997	108.4	13.5	PDF	IES	1,009	109.7	13.6	PDF	IES

Direct (TM11) Performance 20° Asymmetric Wall Wash w/ MesoOptics louver

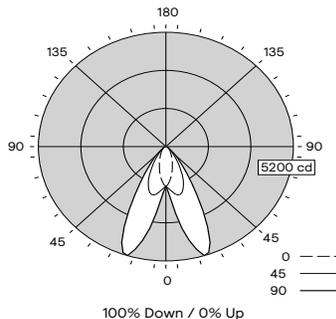
Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K					
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File
Direct	Indirect																										
4000	NA	30.9	3,731	120.7	18.1	PDF	IES	3,812	123.4	18.2	PDF	IES	3,960	128.2	18.3	PDF	IES	4,004	129.6	18.3	PDF	IES	4,044	130.9	18.4	PDF	IES
3500	NA	27.0	3,251	120.4	17.6	PDF	IES	3,319	122.9	17.7	PDF	IES	3,451	127.8	17.8	PDF	IES	3,488	129.2	17.8	PDF	IES	3,522	130.4	17.9	PDF	IES
3000	NA	23.3	2,787	119.6	17.1	PDF	IES	2,843	122.0	17.1	PDF	IES	2,958	127.0	17.3	PDF	IES	2,989	128.3	17.3	PDF	IES	3,018	129.5	17.3	PDF	IES
2500	NA	19.1	2,339	122.5	16.5	PDF	IES	2,387	125.0	16.5	PDF	IES	2,485	130.1	16.7	PDF	IES	2,509	131.4	16.7	PDF	IES	2,533	132.6	16.7	PDF	IES
2000	NA	15.6	1,862	119.4	15.7	PDF	IES	1,901	121.9	15.7	PDF	IES	1,979	126.9	15.9	PDF	IES	1,996	127.9	15.9	PDF	IES	2,017	129.3	15.9	PDF	IES
1500	NA	12.2	1,404	115.1	14.7	PDF	IES	1,433	117.5	14.8	PDF	IES	1,494	122.5	14.9	PDF	IES	1,505	123.4	14.9	PDF	IES	1,521	124.7	15.0	PDF	IES
1000	NA	8.8	918	104.3	13.2	PDF	IES	936	106.4	13.3	PDF	IES	978	111.1	13.4	PDF	IES	983	111.7	13.4	PDF	IES	994	113.0	13.5	PDF	IES

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4Hx8HxH and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

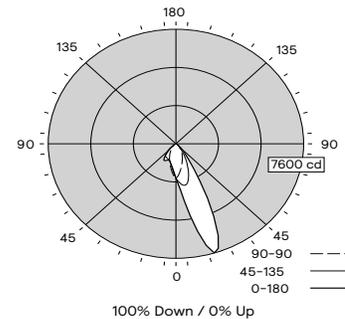
Performance 61° Symmetric Batwing MesoOptics louver
Spacing Criteria: 0.65/1.00



Performance 63° Symmetric Stack Beam MesoOptics louver
Spacing Criteria: 0.54/1.37



Performance 20° Asymmetric Wall Wash MesoOptics louver
Spacing Criteria: 1.29/0.59



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : LEDALITE BY SIGNIFY
Model Number : TM11L940NN25NNN-15-D-E-1-N-NN-FINISH-SF
Notes : SPECIFY FINISH

Type :
L15

TruGroove surface micro louver

Photometry

Direct (TM01) Performance 48° Medium Beam w/ MesoOptics louver

Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,828	123.9	15.7	PDF	IES	3,911	126.6	15.7	PDF	IES	4,063	131.5	15.9	PDF	IES	4,108	132.9	15.9	PDF	IES	4,150	134.3	16.0	PDF	IES		
3500	NA	27.0	3,336	123.6	15.2	PDF	IES	3,405	126.1	15.3	PDF	IES	3,541	131.1	15.4	PDF	IES	3,579	132.6	15.4	PDF	IES	3,614	133.9	15.5	PDF	IES		
3000	NA	23.3	2,860	122.7	14.7	PDF	IES	2,918	125.2	14.7	PDF	IES	3,036	130.3	14.9	PDF	IES	3,067	131.6	14.9	PDF	IES	3,097	132.9	14.9	PDF	IES		
2500	NA	19.1	2,400	125.7	14.1	PDF	IES	2,449	128.2	14.1	PDF	IES	2,549	133.5	14.3	PDF	IES	2,574	134.8	14.3	PDF	IES	2,599	136.1	14.3	PDF	IES		
2000	NA	15.6	1,911	122.5	13.3	PDF	IES	1,950	125.0	13.3	PDF	IES	2,031	130.2	13.5	PDF	IES	2,048	131.3	13.5	PDF	IES	2,069	132.6	13.5	PDF	IES		
1500	NA	12.2	1,441	118.1	12.3	PDF	IES	1,471	120.6	12.4	PDF	IES	1,533	125.7	12.5	PDF	IES	1,544	126.6	12.5	PDF	IES	1,560	127.9	12.6	PDF	IES		
1000	NA	8.8	942	107.0	10.8	PDF	IES	960	109.1	10.9	PDF	IES	1,003	114.0	11.0	PDF	IES	1,008	114.5	11.0	PDF	IES	1,020	115.9	11.1	PDF	IES		

Direct (TM11) Performance 27° Narrow Beam w/ MesoOptic louver

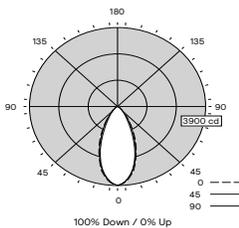
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,763	121.8	10.9	PDF	IES	3,844	124.4	11.0	PDF	IES	3,993	129.2	11.2	PDF	IES	4,038	130.7	11.2	PDF	IES	4,079	132.0	11.2	PDF	IES		
3500	NA	27.0	3,279	121.4	10.5	PDF	IES	3,347	124.0	10.5	PDF	IES	3,480	128.9	10.7	PDF	IES	3,518	130.3	10.7	PDF	IES	3,552	131.6	10.7	PDF	IES		
3000	NA	23.3	2,811	120.6	9.9	PDF	IES	2,868	123.1	10.0	PDF	IES	2,984	128.1	10.1	PDF	IES	3,015	129.4	10.2	PDF	IES	3,044	130.6	10.2	PDF	IES		
2500	NA	19.1	2,359	123.5	9.3	PDF	IES	2,407	126.0	9.4	PDF	IES	2,506	131.2	9.5	PDF	IES	2,530	132.5	9.6	PDF	IES	2,555	133.8	9.6	PDF	IES		
2000	NA	15.6	1,878	120.4	8.5	PDF	IES	1,917	122.9	8.6	PDF	IES	1,996	127.9	8.7	PDF	IES	2,013	129.0	8.8	PDF	IES	2,034	130.4	8.8	PDF	IES		
1500	NA	12.2	1,416	116.1	7.6	PDF	IES	1,446	118.5	7.6	PDF	IES	1,507	123.5	7.8	PDF	IES	1,517	124.3	7.8	PDF	IES	1,534	125.7	7.8	PDF	IES		
1000	NA	8.8	926	105.2	6.1	PDF	IES	944	107.3	6.1	PDF	IES	986	112.0	6.3	PDF	IES	991	112.6	6.3	PDF	IES	1,002	113.9	6.4	PDF	IES		

Direct (TM11) Performance 17° Graze Beam w/ MesoOptic louver

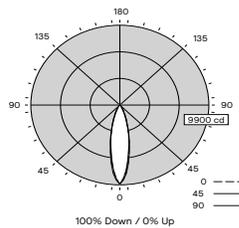
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ²	Photometry Report	IES File		
Direct	Indirect																												
4000	NA	30.9	3,773	122.1	12.7	PDF	IES	3,855	124.8	12.7	PDF	IES	4,004	129.6	12.9	PDF	IES	4,049	131.0	12.9	PDF	IES	4,090	132.4	12.9	PDF	IES		
3500	NA	27.0	3,288	121.8	12.2	PDF	IES	3,356	124.3	12.3	PDF	IES	3,490	129.3	12.4	PDF	IES	3,527	130.6	12.4	PDF	IES	3,562	131.9	12.5	PDF	IES		
3000	NA	23.3	2,818	120.9	11.6	PDF	IES	2,876	123.4	11.7	PDF	IES	2,992	128.4	11.9	PDF	IES	3,023	129.7	11.9	PDF	IES	3,052	131.0	11.9	PDF	IES		
2500	NA	19.1	2,366	123.9	11.0	PDF	IES	2,414	126.4	11.1	PDF	IES	2,513	131.6	11.3	PDF	IES	2,537	132.8	11.3	PDF	IES	2,562	134.1	11.3	PDF	IES		
2000	NA	15.6	1,883	120.7	10.2	PDF	IES	1,922	123.2	10.3	PDF	IES	2,002	128.3	10.5	PDF	IES	2,019	129.4	10.5	PDF	IES	2,040	130.8	10.5	PDF	IES		
1500	NA	12.2	1,420	116.4	9.3	PDF	IES	1,450	118.9	9.3	PDF	IES	1,511	123.9	9.5	PDF	IES	1,522	124.8	9.5	PDF	IES	1,538	126.1	9.5	PDF	IES		
1000	NA	8.8	928	105.5	7.8	PDF	IES	946	107.5	7.9	PDF	IES	989	112.4	8.0	PDF	IES	994	113.0	8.0	PDF	IES	1,005	114.2	8.1	PDF	IES		

1. 4ft Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at ledalite.com. Luminaires with finishes other than standard white may result in a drop in flux and efficacy.
2. Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4xHx8x1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.
3. Photometry in tables above is based on white louvers. Photometry data for other color louvers is available for download on our website.
4. Photometry is for full louver configuration. For lens/louver combination, please scale separate IES files for lens and louver sections.

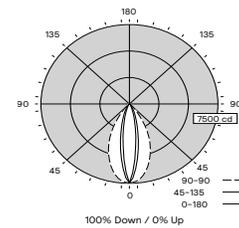
Performance Symmetric 48° Medium Beam MesoOptics louver Spacing Criteria: 0.75/0.70



Performance 27° Narrow Beam MesoOptics louver Spacing Criteria: 0.41/0.40



Performance 17° Graze Beam MesoOptics louver Spacing Criteria: 0.28/0.82



Candela plots shown are for 3000lm/4ft, CRI 90, 3500K configurations.

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Ledalite-TruGroove-Surface-Micro-Louver-Spec-Sheet-en 09/25 page 10 of 10



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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LMCT-100-2

Type :



WATTSTOPPER®

WIRELESS CONFIGURATION TOOL WITH USB

LMCT-100-2

Wireless advanced configuration capabilities for Digital Lighting Management systems

Component of Digital Lighting Management integrated control systems

Easy-to-read OLED screen

Micro-USB port allows easy updating of firmware.



2-way IR communication for data upload, download, confirmation and storage

Easy-to-use navigation pad

Configures occupancy sensors, switches, room controllers, photosensors and DLM relay panels



DESCRIPTION

The LMCT-100-2 Wireless Configuration Tool is a handheld tool for advanced remote configuration of any Wattstopper Digital Lighting Management (DLM) system. The tool enables system and device modifications via pushbutton, without ladders or tools, as well as easy duplication of settings between DLM local networks.

OPERATION

Powered by three AAA batteries, the LMCT-100-2 features an easy-to-read organic LED (OLED) screen and bi-directional communication with IR-enabled DLM devices. Its intuitive navigation pad provides a familiar interface for users who can see the current system parameters of a DLM local network and make changes by navigating through simple menus. Adjustable occupancy sensor parameters include sensitivity, time delay and trigger modes. Load parameter settings (also referred to as Push n' Learn™) include blink warning, Auto- or Manual-on mode, and re-assigning specific loads to different sensors. Button configuration options include type (load or scene), mode, fade times and scene lock. Dimming parameters include low/high trim, preset level and lamp burn in time. Daylighting adjustments include operating mode, setpoints, fade times and time delays. The LMCT is also used to adjust the light level of dimmed loads. As new DLM products are released, a micro-USB port allows for easy firmware updates via software.

CONFIGURATION AND PERSONALIZATION

The LMCT-100-2 simplifies the replication of occupancy sensor settings from one DLM local network to another and facilitates scene setting. It can store up to nine sensor profiles and assign them to sensors in any DLM local network. For projects where identical settings may be desired across a large number of spaces, this capability provides a streamlined method of configuration. Settings can be copied throughout a building or in different buildings. The LMCT also allows manual adjustment of individual load levels. This powerful feature allows different lighting scenes to be set and stored without the need for dimming switches in each space. Scenes can be recalled by scene switches or multi-button switches configured for scene control.

APPLICATIONS

Designers and installers can use the LMCT-100-2 to ensure conformity with design intent. It simplifies changes to occupancy sensor settings, load configurations and dimming parameters by making the adjustment process ladder-free. An LMCT-100-2 is required for calibrating the LMLS-500 photosensor. The self-calibrating LMLS-400 does not require the use of an LMCT-100-2 unless operating parameters need to be adjusted. The LMCT-100-2 is also required for configuration and maintenance of LMCP series relay control panels.

FEATURES

- Remotely reconfigures and reports DLM occupancy sensor parameters: PIR and ultrasonic sensitivity; time delay; walk through mode; trigger mode (for dual technology sensors)
- Remotely reconfigures and reports DLM dimming parameters: load type (dim/switch); low/high trim; preset on level; lamp burn-in
- Manually adjusts light level of dimmed loads to facilitate scene setting
- Remotely configures, reconfigures and reports DLM photosensor settings: light levels; operating mode (on/off, bi-level, tri-level, dimming); setpoints; time delays; fade times; test mode
- Micro-USB port provided for firmware updates, allowing easy updates for support of new DLM products
- The product meets the materials restrictions of RoHS

PROJECT	LOCATION/ TYPE
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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LMCT-100-2

Type :



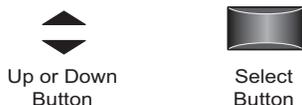
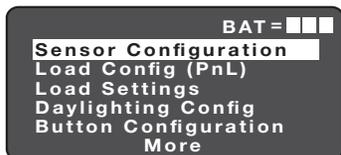
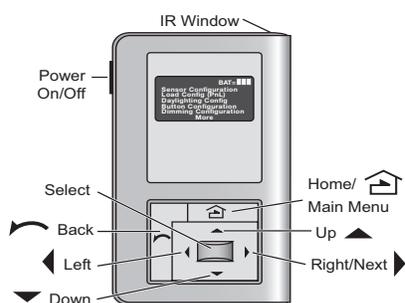
DIGITAL LIGHT MANAGEMENT | Configuration Tools

SPECIFICATIONS

- Three AAA 1.5 volt batteries (included)
- OLED display 1.4"W x .75"H (36mm x 19mm)
- Infrared (IR) transceiver (36kHz frequency)
- IR range: up to 32' (10m)
- Micro-USB port for firmware updating
- Includes carrying case with belt clip
- Operating temperature: 32-104°F (0-40°C)
- FCC part 15 compliant
- Five year warranty

CONFIGURATION MENUS

LMCT-100-2 Handheld Remote with Menu Screens

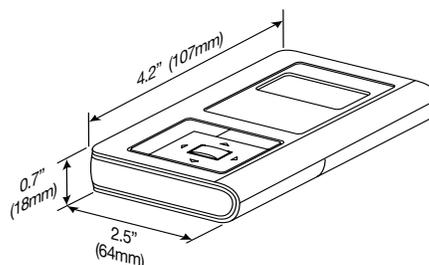


The Home (or Main) menu displays after the power-up process completes. It contains information on the battery status and six menu choices.



The Sensor Configuration function enables users to change sensor parameters, including time delay and sensitivity, save configurations, enter test mode and apply saved configurations.

Dimensions



The Load Configuration function (also referred to as Push n' Learn) enables users to identify load numbers, view and change load parameters and load bindings to sensors.



The Dimming Configuration function enables users to customize parameters for performance and savings. Setting a high level trim below 100% saves energy and increases lamp life.



The Daylighting Configuration function enables users to initiate automatic calibration of the LMLS-400, calibrate the LMLS-500, and adjust setpoints and other parameters for both photosensors and enter test mode.

ORDERING INFORMATION

Catalog #	Description
LMCT-100-2	Wireless Configuration Tool with USB
LMCT-100-2-U	Wireless Configuration Tool with USB, BAA/TAA compliant*

*Product is compliant with Buy American Act and Trade Agreement Act

26837r1 Rev 03/21



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : BZ-150

Type :



WATTSTOPPER®

UNIVERSAL VOLTAGE POWER PACK

BZ-50

- High-efficiency switching power supply
- Plenum rated
- Zero crossing for reliability and increased product life



Overcurrent protection (low-voltage)

120/277VAC, 50/60Hz



DESCRIPTION

The BZ-50 Universal Voltage Power Pack provides 24 VDC operating voltage to Wattstopper's low-voltage occupancy sensors. This device is constructed with environmentally friendly materials and is RoHS-compliant.

OPERATION

The BZ-50 consists of a high-efficiency switching power supply and a high-current relay. It has an input of 120/277 VAC, 50/60Hz, and an output of 24VDC, 225mA. It turns the connected load on and off automatically based on occupancy sensor input.

PLENUM RATED

The BZ-50 Power Pack is comprised of Teflon-coated low-voltage leads and an ABS, UL 2043 and 94V-0 plastic resin enclosure that is plenum-rated. As a result, the BZ-50 does not require installation into the junction box, but can be cost-effectively installed directly into the plenum.

APPLICATIONS

The BZ-50 Power Pack is designed to be flexible enough to control almost any lighting or HVAC load, such as lighting circuits, self-contained air conditioners, pumps, fans, motors, VAV systems, motorized damper controls and setback thermostats. The BZ-50 is well-suited for any application which requires high-voltage switching through low-voltage controls. By linking power packs and sensors, an almost unlimited number of configurations can be obtained.

FEATURES

- Self-contained power supply relay system
- Efficient switching power supply providing optimized current output based on number of sensors
- LED indicates status of relay or if there is a low-voltage overcurrent
- The product meets the materials restrictions of RoHS
- Zero crossing circuitry for reliability and increased product life
- UL 2043 plenum rated for cost-effective installation
- 1/2" snap-in nipple attaches to standard electrical enclosures through 1/2" knockouts
- 14 AWG wires on the relay for 20A operation
- BAA/TAA-compliant models available

PROJECT		LOCATION/ TYPE	
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1 WWW.LEGRAND.US/WATTSTOPPER designed to be better.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : BZ-150

Type :



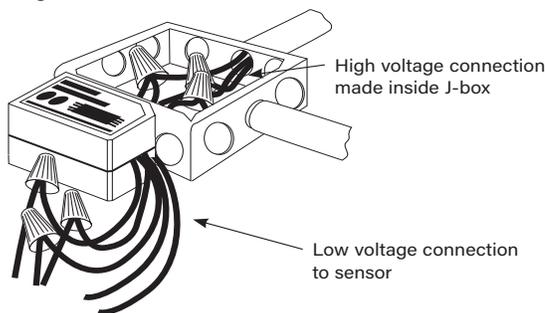
SENSORS | Power Packs

SPECIFICATIONS

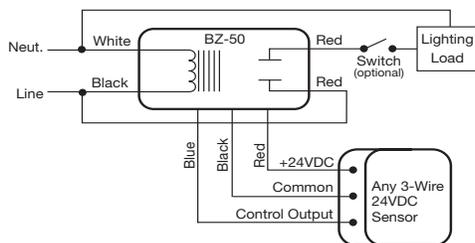
- 120/277VAC, 230/240V (single phase), 50/60Hz voltage input
- Load Requirements
 - Ballast, Incandescent: 20amp @120/277VAC
 - Eballast: 16amp @277VAC
 - Motor: 1HP @120/240VAC
- Output: 225mA @24VDC (with relay connected)
- Low-voltage leads are rated for 300 volts
- UL-rated 94 V-O gray plastic enclosure
- Dimensions: 1.6" x 2.75" x 1.6" (40.6mm x 69.9mm x 40.6mm) H x W x D with a 1/2" (12.7mm) snap-in nipple
- UL and cUL listed
- Five year warranty

INSTALLATION AND WIRING

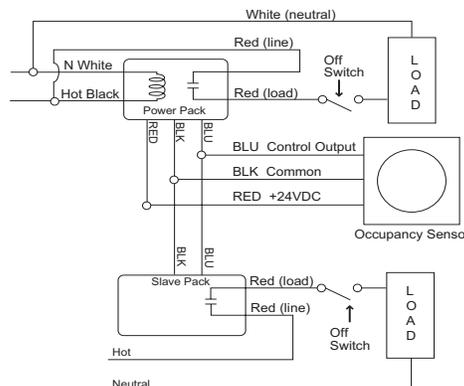
Installation Diagram



Wiring with Occupancy Sensor



Auxiliary Relay Pack with Sensor



All Wattstopper power packs should be installed in accordance with state, local, and national electrical codes and requirements. Power packs are designed to attach to existing or new electrical enclosures with .5" 125.40mmJ knockout (check electrical codes in your area). Most applications require UL-listed, 18-22 AWG, 3-conductor, Class 2 cables for low-voltage wiring. For plenum return ceilings use UL-listed plenum-approved cables.

ORDERING INFORMATION

Catalog #	Input Voltage	Load Ratings			Output
		Ballast (A)	Incan (A)	Motor (HP)	
BZ-50	120/277 VAC, 50/60Hz	20	20	1*	24 VDC; 225 mA**
BZ-50-U	230/240 VAC (Single Phase), 50/60Hz				

*1 Hp rated at 120/250 VAC. **Output is 225 mA with relay connected.
 -U = BAA/TAA compliant. Product is compliant with Buy American Act and Trade Agreement Act

27329r2 Rev 08/2021



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : DCLV2-COLOR

Notes : SPECIFY COLOR

Type :



WATTSTOPPER®

0-10V DECORATOR DIMMER

DCLV-2

Controls low voltage 0-10V lighting loads, including LED

Decorator styling, compatible with radiant® screwless or standard wall plates

Last Assigned Recall

Single Pole



Input for occupancy sensors

Can be set for Manual-On or Partial-On to meet advanced energy codes.

Easy to use interface

DESCRIPTION

The DCLV2 0-10V Lighting Dimmer is a low voltage (Class 2) device. The DCLV2 provides a nominal 0-10VDC signal to smoothly dim compatible 0-10V LED lighting drivers. Controller includes a sensor input for automatic operation and can also be put in Manual-On mode for code compliance.

OPERATION

Users operate the 0-10V Controller by pressing up or down on the paddle to raise or lower light level. Users may also enable the sensor to trigger occupancy, the DCLV2 will normally set the load to the dimming level that it was at when Manual-On or Auto On is enabled.

The DCLV2 is programmed to default to the Manual-On setting. If switched to Auto-On mode, the DCLV2 defaults to 50% Partial-On if no adjustments are made. If connected to a sensor, the lights will fade on to the preset level and fade off, based on occupancy.

The DCLV2 can be used with the ELCU-200 to turn the lights to full ON upon an emergency. The DCLV2 opens the 0-10V circuit at time of power loss. If the Emergency lighting was in a dimmed state when the normal power was lost, the emergency lighting will be at 100% versus last dimmed level. The ELCU-200 or

some like device needs to be involved in the overall emergency management system to monitor the loss of normal power so that the 0-10 volt emergency lighting will not only be ON but ON at 100%.

CODE-COMPLIANT 0-10V DIMMING

0-10V dimming is smooth across the fixture's dimming range (consult driver manufacturer for lowest output level). When the Controller signal output drops to 0, the auxiliary relay (WattStopper power pack) will turn the controlled fixtures off after one to two seconds. For code-compliant automatic-off lighting control, an occupancy sensor input may be wired to the controller. Both the sensor and the Controller may be powered from a single power pack. Lighting will fade on when the sensor detects occupancy and off after the space has been vacated.

Note: Fixtures may stop dimming lower once 1VDC is reached, per ANSI C82.11-Annex A for 0-10V controls.

APPLICATIONS

Common applications include offices, conference rooms, training centers and healthcare & classrooms where load control is required from a single location.

FEATURES

- May be used for on/off lighting and 0-10V dimming control
- Sinks up to 50mA, to control 25 drivers/ballasts wired in parallel and sourced at 2mA (more drivers/ballasts are possible with lower current fixtures)
- Controls two external maintained relays
- Recalls last-used light level (preset)
- Two-second fade rate
- Power failure restore to last-used level
- Compatible with decorator wall plates
- Compatible with ELCU-200 Emergency Lighting Control Unit

PROJECT

LOCATION/
TYPE

1

WWW.LEGRAND.US/WATTSTOPPER

designed to be better.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : DCLV2-COLOR

Notes : SPECIFY COLOR

Type :



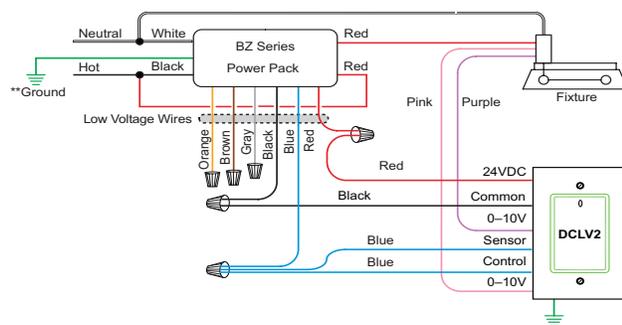
WALLBOX DIMMERS | Decorator Dimmers

SPECIFICATIONS

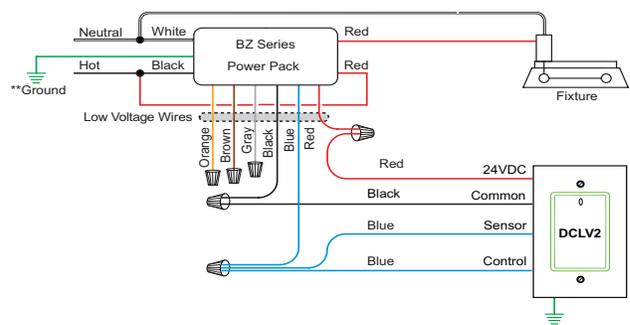
- Input voltage: 24VDC, 16mA
- Control output for 0-10VDC ballasts: Sinks up to 50mA; maximum voltage, 9.5VDC, minimum voltage, 0.75VDC Consult ballast/driver manufacturer to determine 0-10V mA output
- Dimensions: 2.64" x 1.75" x 1.98" (67.1mm x 44.5mm x 50.3mm) L x W x D; depth in wall 1.65" (41.9mm)
- Operating conditions: for indoor use only; 32-104°F (0-40°C); 0-80% RH, non condensing
- UL and cUL listing
- Five year warranty

WIRING

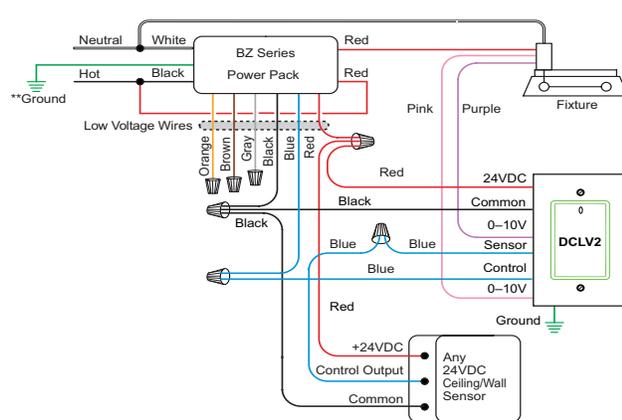
0-10V Wiring



On/Off Wiring



0-10V Wiring for use with a Sensor



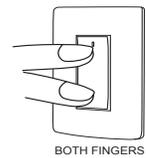
NOTE: For all wiring applications, if BZ Power Pack model includes a DIP switch, do not set switch to "Manual"

BUTTON FUNCTIONS

Changing the Mode

LEARN/Select

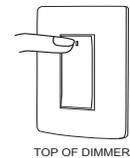
Press the switch with both fingers (just enough to push both toggles inward). Then select the appropriate mode.



BOTH FINGERS

RAISE/Auto On

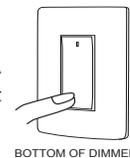
Raise the dim level. While in LEARN Mode: A Red LED Confirms that the Auto On Mode is selected.



TOP OF DIMMER

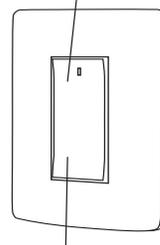
LOWER/Manual On

Lower the dim level. While in LEARN Mode: A Green LED Confirms that the Manual On Mode is selected.



BOTTOM OF DIMMER

1 tap = last non-zero level
2 taps = full output
Press and hold = raise level



1 tap = fade to OFF
Press and hold = lower level



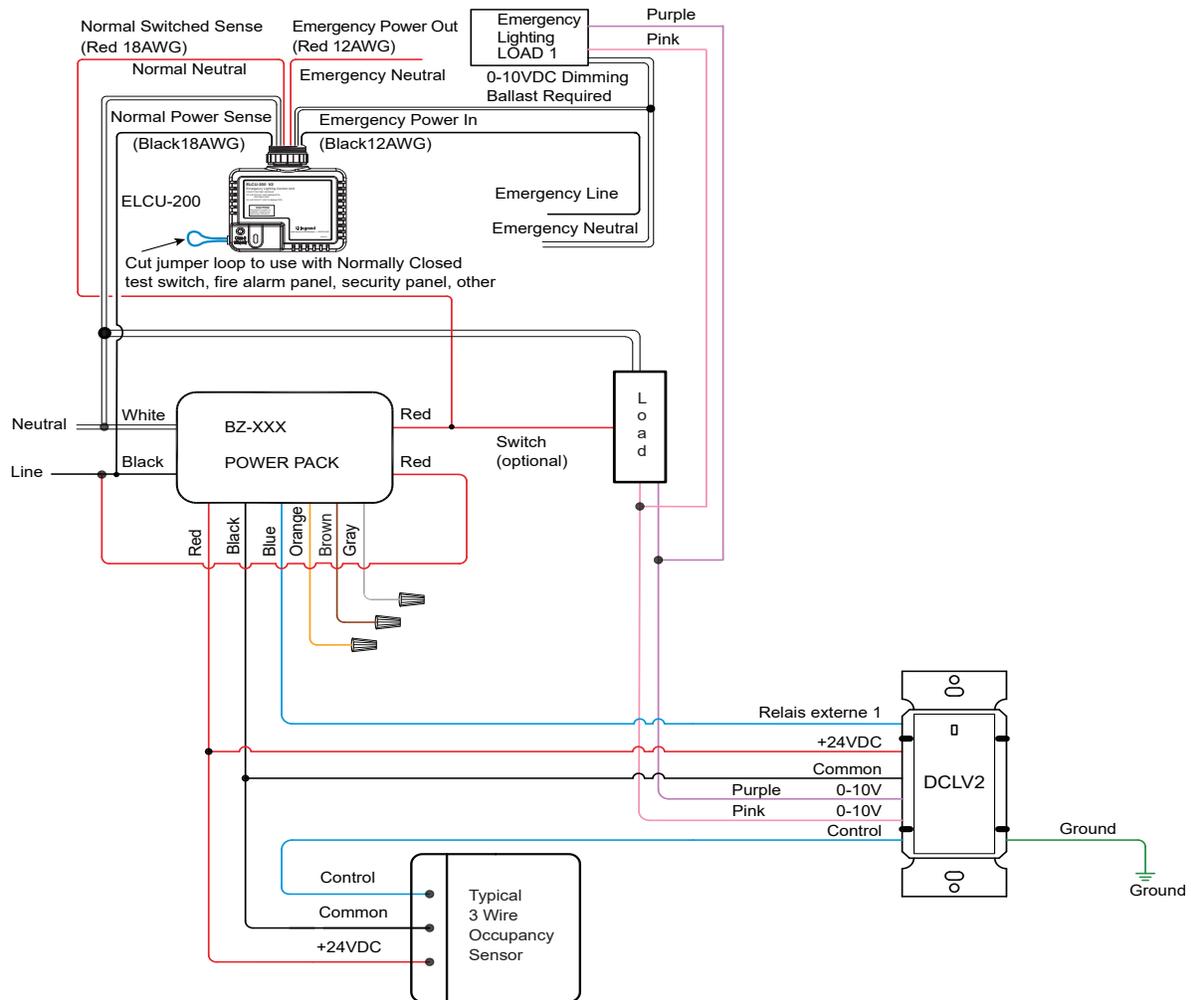
Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : DCLV2-COLOR
Notes : SPECIFY COLOR

Type :



WATTSTOPPER®

DCLV2 Wiring for use with am ELCU-200 and Sensor



ORDERING INFORMATION

Catalog #	Description	Input Voltage	Color
<input type="checkbox"/> DCLV2-W	0-10V Decorator Lighting Dimmer	24VDC	White
<input type="checkbox"/> DCLV2-LA	0-10V Decorator Lighting Dimmer	24VDC	Light Almond
<input type="checkbox"/> DCLV2-I	0-10V Decorator Lighting Dimmer	24VDC	Ivory
<input type="checkbox"/> DCLV2-B	0-10V Decorator Lighting Dimmer	24VDC	Black
<input type="checkbox"/> DCLV2-G	0-10V Decorator Lighting Dimmer	24VDC	Gray
<input type="checkbox"/> DCLV2-R	0-10V Decorator Lighting Dimmer	24VDC	Red

SPECIFY COLOR

Order Wall Plates and Power Packs separately.

28085r5 Rev 05/2021



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : DSW-301-COLOR

Notes : SPECIFY COLOR

Type :



WATTSTOPPER®

DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR

DSW-301

High sensitivity and dense coverage for exceptional performance

Allows multi-way control from one of up to four control locations

Color-matched lens and low profile for appealing design



120/240/240/277 VAC and 347 VAC models

Defaults to Manual-ON operation for maximum energy savings

DESCRIPTION

The DSW-301 dual technology wall switch sensor turns lights OFF and ON based on occupancy. It combines the benefits of passive infrared (PIR) and ultrasonic detection technologies. The DSW-301 replaces existing wall switches and fits behind a standard decorator wall plate.

OPERATION

Once the lights are ON, detection by either technology holds lights ON until occupancy is no longer detected and the time delay elapses. Factory default operation is for Manual-ON, so that users must turn lights on. DIP switch settings allow for a variety of control options including Auto-ON operation, walk-through and test mode. In Auto-ON mode, the DSW-301 can be programmed to turn lighting on when both the PIR and Ultrasonic technologies detect occupancy or when the PIR sensor detects occupancy. Additional DIP switch settings allow the user to choose which sensing technologies hold ON or retrigger the lighting. Multiple sensors may be used for control of one or more loads from up to four locations.

COMPATIBLE WITH 2 WIRE OR 3 WIRE CONNECTIONS

Any DSW-301 sensor can be used for a two-wire or three wire application, either to work with existing wiring, or to meet local or national code requirements. DSW-301 120/240/240/277v model uses a blue and white signal wire to connect to neutral or, in cases of retrofit or replacement when no neutral is present, can be connected to ground. The DSW-301-347 model has a plastic tab that covers neutral screw terminals; once the sensor is connected to neutral it complies with all codes that restrict current leakage to ground.

APPLICATIONS

The DSW-301 sensor is great for retrofit projects and Wattstopper's dual technology has the flexibility to work in a variety of applications where one technology alone may not be sufficient. Common applications include small and executive offices, small and medium conference rooms, small classrooms and lunch/break rooms. In addition, dual technology sensors are the perfect choice for ADA-compliant buildings due to lower mounting height requirements.

FEATURES

- Complies with 2017 NEC requirements
- Zero-crossing for long relay life
- Vandal resistant lens combines precise coverage with durability
- Selectable walk-through mode turns lights off three minutes after initial occupancy if no motion is detected after the first 30 seconds
- Test mode allows quick and easy adjustments
- In automatic mode, sensor returns automatically to Auto-ON after lights are turned off manually; ideal for presentations
- Selectable audible alert for impending shutdown
- Four occupancy logic options to customize control to meet application needs
- Optional light level sensing with simple setup
- Service mode allows sensor to operate as a service switch in the unlikely event of a failure
- Sensor coverage tested to NEMA Guide Publication WD 7-2000
- BAA/TAA-compliant models available

PROJECT

LOCATION/
TYPE



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : DSW-301-COLOR

Notes : SPECIFY COLOR

Type :



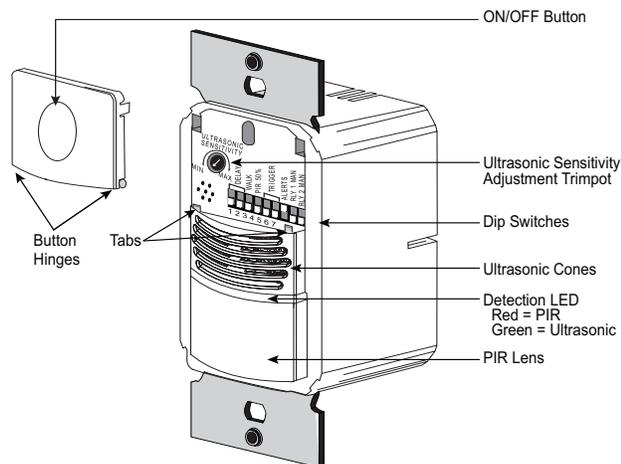
SENSORS | Occupancy and Vacancy

SPECIFICATIONS

- DSW-301: 120/240/240/277VAC; 50/60Hz, 1/4 hp
 - @ 120VAC, 0-1000W ballast, LED, and tungsten
 - @ 240/240/277VAC, 0-1200W ballast and LED
- DSW-301-347: 347VAC; 50/60Hz, 1/4 hp; 0-1500W ballast and LED
- Time delays: 5, 15 or 30 minutes, walk-through, test-mode/20 minutes
- Sensitivity adjustment: PIR (high/low), Ultrasonic (fully variable)
- Coverage: Major motion, PIR 35' x 30', Ultrasonic 20' x 20'
 - Minor motion, PIR 20' x 15', Ultrasonic 15' x 15'
- Dimensions (L x W x D): 2.73" x 1.75" x 1.81" (69mm x 44mm x 46mm)
- UL and cUL listed
- Five year warranty

CONTROLS & SETTINGS

Product Controls

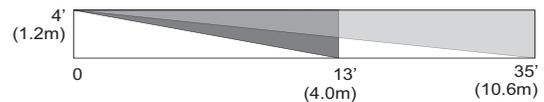
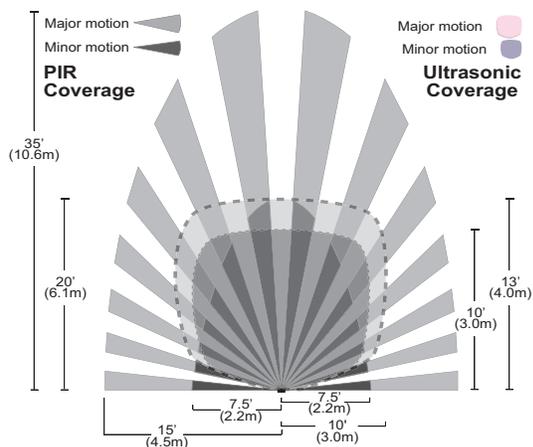


DIP Switch Settings

Time Delay	1	2	Time Delay	3	4	5	6	Audible Alert	7
Test/20 min	↓	↓	5 minutes	↓	↑	15 minutes	↑	Enabled	↑
5 minutes	↓	↑	15 minutes	↑	↓	30 minutes	↓	Disabled	↓
15 minutes	↑	↑	30 minutes	↑	↑			Relay 1 On Mode	8
30 minutes	↑	↑						Manual On	↑
								Auto On	↓
								DSW-302 ONLY	
								Relay 2 On Mode	9
								Manual On	↑
								Auto On	↓

Factory Settings:
 ▲ All models
 ▲ DSW-301
 ▲ DSW-302

COVERAGE



For best performance, Wattstopper recommends using this sensor in spaces no larger than 18' x 15'.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : DSW-301-COLOR

Notes : SPECIFY COLOR

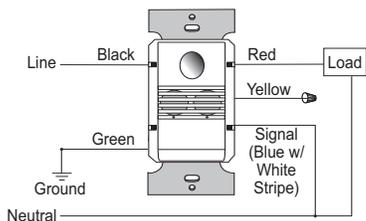
Type :



WATTSTOPPER®

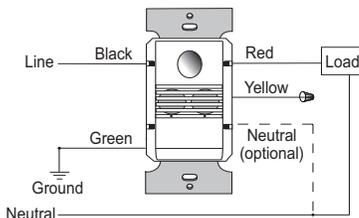
WIRING

DSW-301

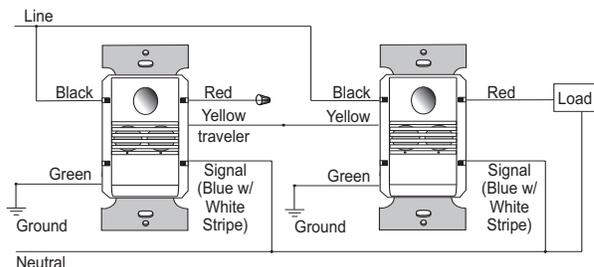
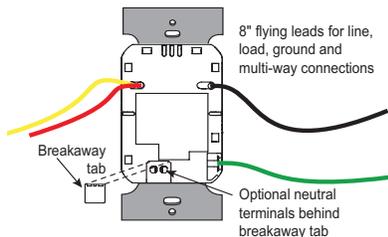


Signal wire connects to neutral. Signal wire can connect to ground in replacement or retrofit application

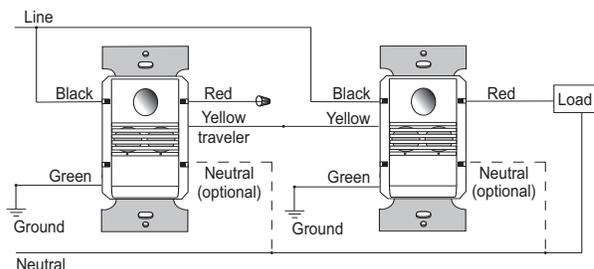
DSW-301-347



Simple optional neutral connection allows installation in any 2-wire or 3-wire application. When used in a multi-way application, all devices in that space must be wired using the same method of either with neutral or without neutral.



Multi-way Wiring
(up to 4 sensors)



Multi-way Wiring
(up to 4 sensors)

Note: For multi-way wiring, All units should be on the same phase

ORDERING INFORMATION

Catalog #	Color	Voltage	Load Rating
<input type="checkbox"/> DSW-301-W	White	120VAC; 50/60Hz or 240/240/277VAC; 50/60Hz	@ 120VAC, 0-1000W ballast, LED, tungsten, 1/4 hp or @ 240/240/277VAC 0-1200W ballast, LED, 1/4 hp
<input type="checkbox"/> DSW-301-W-U	White		
<input type="checkbox"/> DSW-301-LA	Light Almond		
<input type="checkbox"/> DSW-301-I	Ivory		
<input type="checkbox"/> DSW-301-I-U	Ivory		
<input type="checkbox"/> DSW-301-G	Gray		
<input type="checkbox"/> DSW-301-B	Black		
<input type="checkbox"/> DSW-301-R	Red		
<input type="checkbox"/> DSW-301-347-W	White	347VAC; 50/60Hz	0-1500W ballast & LED, 1/4 hp
<input type="checkbox"/> DSW-301-347-LA	Light Almond		
<input type="checkbox"/> DSW-301-347-I	Ivory		
<input type="checkbox"/> DSW-301-347-G	Gray		
<input type="checkbox"/> DSW-301-347-B	Black		
<input type="checkbox"/> DSW-301-347-R	Red		

Order wall plate separately. -U = BAA/TAA-compliant models available. Product is compliant with Buy American Act and Trade Agreement Act 25984r4 Rev 07/2021



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : DT-300

Type :



WATTSTOPPER®

LOW VOLTAGE DUAL TECHNOLOGY CEILING SENSORS

DT-300 SERIES

Architecturally appealing low-profile appearance

Walk-through mode increases savings potential

Ultrasonic diffusers give more comprehensive coverage



Plug terminal wiring for quick and easy installation

Accepts low-voltage switch input for manual-on operation

Supports automatic or manual-on operation



DESCRIPTION

The DT-300 Series Dual Technology Ceiling Sensors combine the benefits of passive infrared (PIR) and ultrasonic technologies to detect occupancy. Sensors have a flat, unobtrusive appearance and provide 360 degrees of coverage.

OPERATION

Low voltage DT-300 Series sensors utilize a Wattstopper power pack to turn lights on when both PIR and ultrasonic technologies detect occupancy. They can also work with a low voltage switch for manual-on operation. PIR technology senses motion via a change in infrared energy within the controlled area, whereas ultrasonic uses 40KHz high frequency ultrasound. Once lights are on, detection by either technology holds them on. When no occupancy is detected for the length of the time delay, lights turn off. DT-300 Series Sensors can also be set to trigger lights on when either technology or both detect occupancy, or to require both technologies to hold lighting on.

TIME DELAY OPTIONS

The DT-300 is factory set for a 20 minute time delay, ideal for both energy savings and user satisfaction in most applications. Installers can quickly select other fixed time delays (5, 10, 15 or 30 minutes) via DIP switches. Fixed time delays eliminate the occupant dissatisfaction associated with an automatically adjusted time delay option, and reduce callbacks. Walk-through mode may be enabled for added energy savings in spaces with frequent transient traffic.

APPLICATIONS

DT-300 Series Dual Technology Sensors have the flexibility to work in a variety of applications, where one technology alone could cause false triggers. Ideal applications include classrooms, open office spaces, large offices and computer rooms. The DT-300 Series mounting system makes them easy to install in ceiling tiles or to junction boxes, providing the flexibility to be used in a wide range of spaces.

FEATURES

- Advanced control logic based on RISC micro-controller provides:
 - Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
 - Walk-through mode turns lights off three minutes after the area is initially occupied – ideal for brief visits such as mail delivery
- Available with built-in light level sensor featuring simple, one-step setup
- Patented ultrasonic diffusion technology spreads coverage to a wider area
- LEDs indicate occupancy detection
- Sensors work with low-voltage momentary switches to provide manual control
- Uses plug terminal wiring system for quick and easy installation
- Eight occupancy logic options provide the ability to customize control to meet application needs
- Available with isolated relay for integration with BAS or HVAC
- BAA/TAA-compliant models available
- Sensor coverage tested to NEMA Guide Publication WD 7-2000

PROJECT	LOCATION/ TYPE



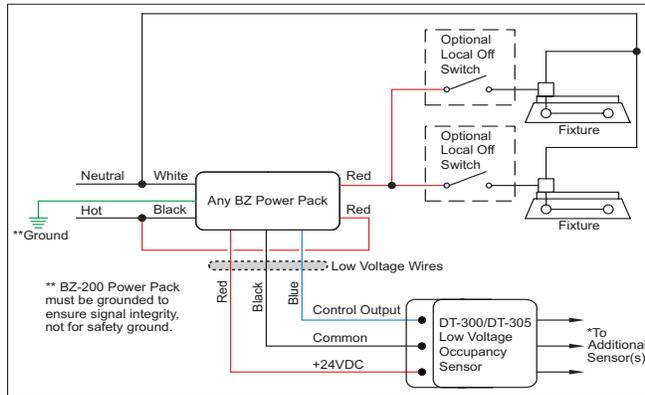
SENSORS | Occupancy and Vacancy

SPECIFICATIONS

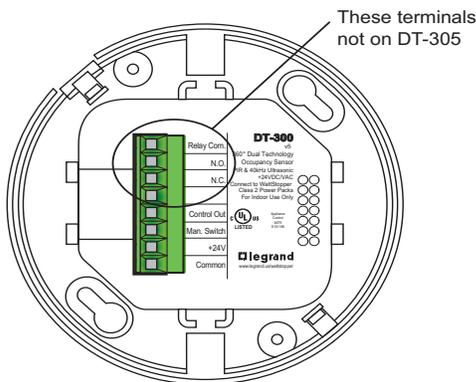
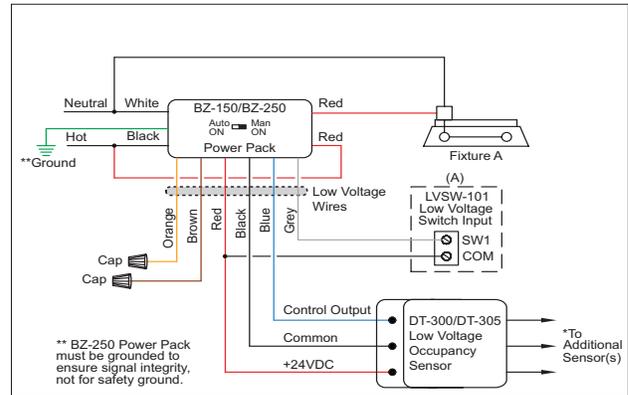
- 18–28 VDC/VAC
- Current Consumption @24VDC/VAC
 - DT-300: 25mA (DC)/74mA (AC)
 - DT-305: 16mA (DC)/69mA (AC)
- Ultrasonic frequency: 40kHz
- Time delays: 5, 10, 15, 20, or 30 minutes, Walk-through/Test Modes
- Sensitivity adjustment: High/low (PIR); variable with trim pot (ultrasonic)
- Built-in light level sensor: 10 to 300 footcandles (107.6 to 3,229.2 lux)
- Multi-level Fresnel lens provides 360° coverage
- Low-voltage, momentary switch input for manual on or off operation
- DT-300 contains an isolated relay with N/O and N/C outputs; rated for 1 Amp @ 30 VDC/VAC
- Mounting options: ceiling tile; 4" octagonal J-box, 1.5" deep
- Max DT-300s per BZ power pack: 6
Max DT-305s per BZ power pack: 7
- Dimensions: 4.50" diameter x 1.02" deep (114.3mm x 25.9mm)
- Compatible with Wattstopper PLUS Sensor Interface Module (EN-SIM-AI/SPS-GB2-BK). See sensor installation instructions for performance considerations.
- UL and cUL listed
- Five year warranty

WIRING

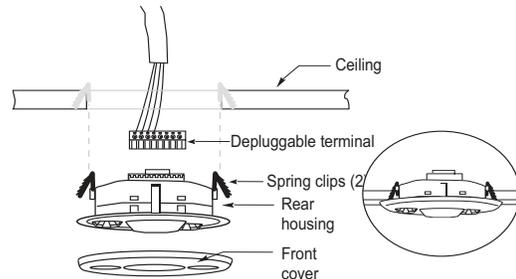
Standard wiring with two local off switches



Manual-On wiring with low voltage momentary switch



MOUNTING





Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : DT-300

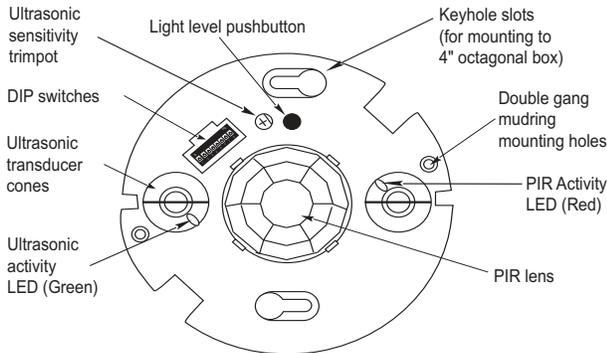
Type :



WATTSTOPPER®

CONTROLS & SETTINGS

Product Controls



DIP Switch Settings

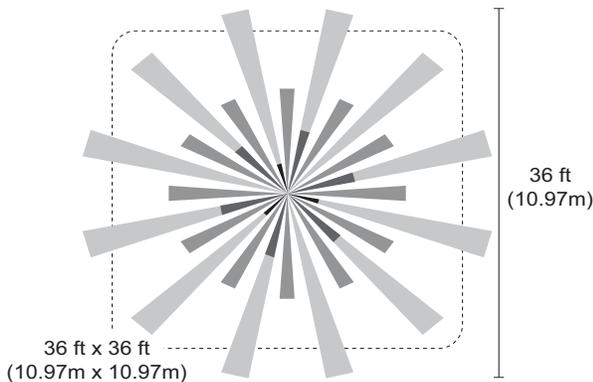
Feature	Switch#	1	2	3
Time Delay		↓	↓	↓
Test Mode/20 min		↓	↓	↓
30 seconds		↓	↓	↑
5 minutes		↓	↑	↓
10 minutes		↓	↑	↑
15 minutes		↑	↓	↓
20 minutes		↑	↓	↑
25 minutes		↑	↓	↓
30 minutes		↑	↑	↑
Walk-Through	4			
Enabled		↑		
Disabled			↓	
PIR Sensitivity	5			
Minimum		↑		
Maximum			↓	

Occupancy Logic	Settings	6	7	8
Standard		↓	↓	↓
Option 1		↑	↓	↓
Option 2		↓	↑	↓
Option 3		↑	↑	↓
Option 4		↓	↓	↑
Option 5		↑	↓	↑
Option 6		↑	↑	↑
Option 7		↑	↑	↑

Occupancy Logic	Trigger	Initial Occupancy		
		Maintain Occupancy	Re-trigger (seconds duration)	
Standard	Both	Either	Either(5)	
Option 1	PIR	Either	Either(5)	
Option 2	PIR	PIR	PIR(5)	
Option 3	Both	PIR	Both(5)	
Option 4	PIR	PIR	PIR(5)	
Option 5	Either	PIR	Either(5)	
Option 6	Man.	Either	Either(30)	
Option 7	Man.	PIR	Both(30)	

◀ = Factory Setting
 ↑ = ON
 ↓ = OFF

COVERAGE



Coverage shown is maximum and represents half-step walking motion. Under ideal conditions, coverage for half-step walking motion can reach up to 1000 ft².

The control technology (occupancy logic) is selectable. The default setting requires both technologies to trigger on, either to hold on, and is recommended for most applications.

ORDERING INFORMATION

Catalog #	Voltage	Current	Coverage	Features
<input type="checkbox"/> DT-300	24VDC/VAC	25mA (DC)/ 74mA (AC)	up to 1000 ft ² (92.9 m ²)	Isolated relay, light level
<input type="checkbox"/> DT-300-U				
<input type="checkbox"/> DT-305	24VDC/VAC	16mA (DC)/ 69mA (AC)	up to 1000 ft ² (92.9 m ²)	
<input type="checkbox"/> DT-305-U				

Sensors are white and use Wattstopper power packs. Current consumption can be slightly higher when only one sensor per power pack is used.

-U = BAA/TAA compliant; product is compliant with Buy American Act and Trade Agreement Act

27333r4 Rev 04/2025



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LMDC-100

Type :



WATTSTOPPER®

DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR

LMDC-100

Combines passive infrared and ultrasonic technologies for most comprehensive coverage

Component of Digital Lighting Management integrated control system

Quick access to Push n' Learn for system personalization



Digital sensor with programming pushbuttons behind snap-off cover

IR transceiver for wireless configuration and remote control

Low profile design for architectural appeal



DESCRIPTION

The LMDC-100 low profile Dual Technology Ceiling Mount Occupancy Sensor uses both passive infrared (PIR) and ultrasonic technologies to achieve precise occupancy sensing for energy-efficient control of lighting and plug loads. It is a digital sensor, and is part of a Wattstopper Digital Lighting Management (DLM) system.

OPERATION

The LMDC-100 operates on Class 2 power supplied to a DLM local network by one or more DLM room controllers. It works with the room controller(s) to turn loads on and off based on occupancy. Default operation is established by Plug n' Go, which automatically configures system components to maximize energy savings. Initially, all occupancy sensors control all loads on the same local network. Each LMDC-100 may be assigned to a specific load; load assignments and load parameters may be changed using Push n' Learn. The LMDC-100 may be reconfigured using either the pushbuttons with LED feedback, LMCT-100-2 wireless configuration tool, or LMCS-100 software..

DIGITAL SETTINGS AND IR COMMUNICATION

The LMDC-100 includes easy-to-access pushbuttons and LEDs used to change parameters. Time delay and sensitivity can be precisely adjusted. Additionally, walk through mode can be activated and detection and retrigger technologies may be changed.

Changes can also be made with the LMCT-100-2 wireless configuration tool, which communicates with the sensor using a bi-directional infrared (IR) signal. The LMDC-100 IR transceiver allows wireless system operation in addition to configuration.

APPLICATIONS

The LMDC-100 senses both large and small motions and is recommended for spaces including conference rooms, private offices, open offices and classrooms where using just one detection technology could result in false triggers. Mounted at ten feet, the LMDC-100 can detect motion throughout an area of approximately 1,000 square feet.

FEATURES

- Plug n' Go™ automatic configuration for quick installation and maximum energy savings
- Push n' Learn™ functionality for customization without the need for tools or a PC
- Digital Lighting Management components plug together on a free-topology Category 5e DLM local network
- Infrared (IR) transceiver for wireless configuration and control
- 360 degree PIR coverage
- Ultrasonic diffusion technology spreads coverage to a wider area (patented); 40KHz signal
- Detection Signature Processing eliminates false triggers and provides immunity to RFI and EMI
- The product meets the materials restrictions of RoHS
- Sensor coverage tested to NEMA Guide Publication WD 7-2000
- BAA/TAA-compliant models available

PROJECT	LOCATION/ TYPE
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1

WWW.LEGRAND.US/WATTSTOPPER

designed to be better.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : LMDC-100

Type :



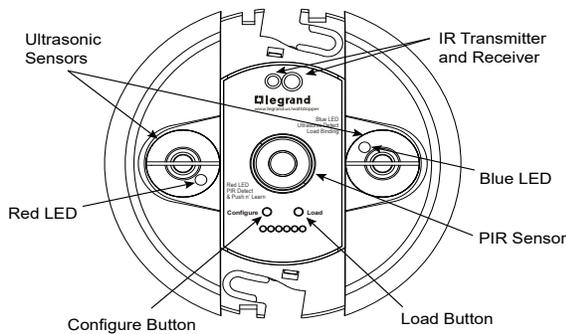
DIGITAL LIGHT MANAGEMENT | Occupancy Sensors

SPECIFICATIONS

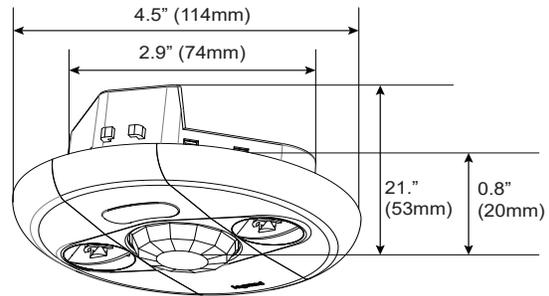
- Input voltage: 24VDC from DLM network
- Current consumption: 20mA
- DLM local network connection: 2 RJ45 ports
- Pushbuttons and LEDs for setting sensor and system parameters
- Infrared (IR) transceiver
- Ultrasonic frequency: 40 kHz
- Operating conditions: for indoor use only; 32-104°F (0-40°C); 5-95% RH, non-condensing
- UL and cUL listed
- FCC part 15 compliant
- Five year warranty

CONTROLS & DIMENSIONS

Product Controls and Sensor Settings



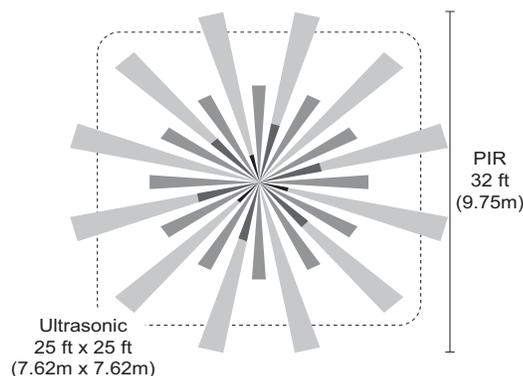
Product Dimensions



Sensor Parameter	Available Options	Default Setting
Time Delay	1-30 min. (1 min. increments)*	20 minutes
PIR Sensitivity	10-100% (10% increments)/Off	90%
Ultrasonic Sensitivity	10-100% (10% increments)/Off	70%
Test Mode	Activate	Off
Walk Thru**	On/Off	Off
Detection Technology**	Ultrasonic/PIR/Both/Neither	Both
Retrigger Technology **	Ultrasonic/PIR/Both/Neither	Either

* 5 minute increments via programming buttons. 1 minute increments available if using LMCT-100-2 Configuration Tool or LMCS-100 Software.
 ** These parameters only available using LMCT-100-2 Configuration Tool or LMCS-100 Software.

COVERAGE





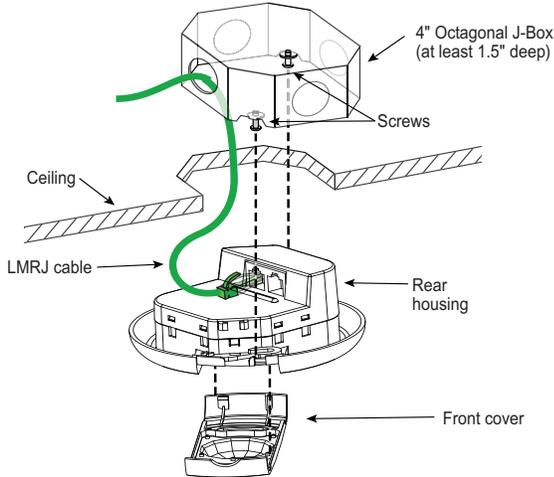
Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : LMDC-100

Type :

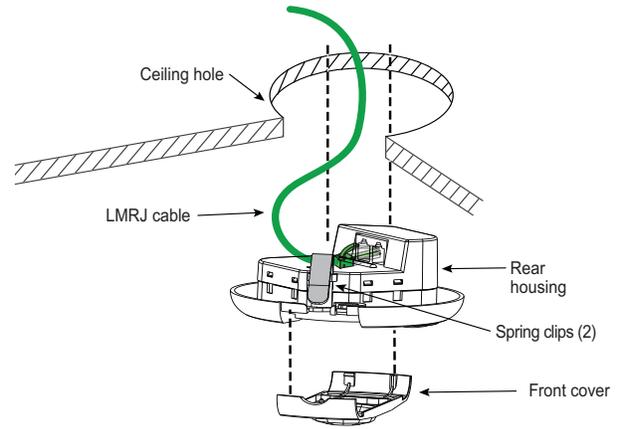


WATTSTOPPER®

MOUNTING



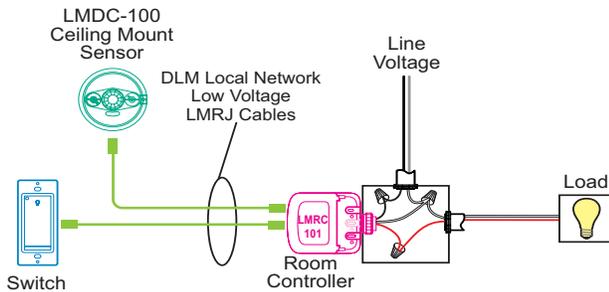
For applications requiring plenum rating



No box required in non-plenum rated applications

WIRING

Sample Connection Diagram



Plug DLM local network components together in any configuration using Cat 5e cables with RJ45 connectors.

ORDERING INFORMATION

Catalog #	Color	Description
<input type="checkbox"/> LMDC-100	White	Dual Technology Ceiling Mount Occupancy Sensor
<input type="checkbox"/> LMDC-100-BK	Black	Dual Technology Ceiling Mount Occupancy Sensor
<input type="checkbox"/> LMDC-100-U	White	Dual Technology Ceiling Mount Occupancy Sensor, BAA/TAA compliant*
<input type="checkbox"/> LMCT-100-2		Digital Wireless Configuration Tool

*Product is compliant with Buy American Act and Trade Agreement Act

27378r6 Rev 6/25



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LMRC-111-20M

Type :



WATTSTOPPER®

ON/OFF/0-10 VOLT DIMMING ROOM CONTROLLER

LMRC-111-20M

Plenum-rated controllers with line voltage relay and 0-10 volt dimming output

Knockout mounting for easy installation; Class 1 and/or Class 2 connection for 0-10V wiring

Advanced real time metering of voltage and current (+/- 2% accuracy)



Plug n' Go™ automatic configuration for quick installation and maximum energy efficiency

Store 16 scene preset levels for each load

Over-current protection: relay closes to prevent device damage in an over-current situation.

Supports energy saving manual-on, partial-on and dimming control strategies



DESCRIPTION

LMRC-111-20M room controllers include one relay capable of switching a 20 amp load, a high-efficiency intelligent switching power supply and both Class 1 and Class 2 0-10 volt outputs for control of dimmable loads including compatible LED drivers or electronic ballasts. Room Controllers are the foundation of a Digital Lighting Management (DLM) system, and allow integration of occupancy sensors, daylighting controls and switches for energy-efficient control.

OPERATION

LMRC-111-20M room controllers operate on one 120 or 277 volt, feed and provide Class 2 power to sensors and switches via the DLM local network. Once powered up, Plug n' Go automatically configures system components for the most energy-efficient operation. The room controllers then dim or switch lighting or motor loads in response to input from the communicating devices. When a dimming input is received, the relay switches on when the dimmed level rises above zero, and off when it reaches zero, to coordinate control of power and the 0-10 volt signal to the load. They also monitor the current draw of the total connected load. Each room controller stores up to 16 scene preset levels for each dimmed output. Room controllers include circuitry to open their 0-10V signal on loss of power, so any separately powered ballast or driver connected to those 0-10V wires will go to full brightness.

PLUG N' GO AUTOMATIC CONFIGURATION

DLM room controllers manage Plug n' Go automatic system configuration, which establishes functionality based on the installed components. When room controllers are connected only to occupancy sensors, the system defaults to automatic on/off operation. If a wall switch is added to a system with one load, the load defaults to manual-on/automatic-off operation. At system startup, default dimming parameters are established including: levels for scene presets 1-4; fade times; and fade and ramp rates. Dimming and system parameters may be customized using Push n' Learn.

APPLICATIONS

LMRC-111-20M room controllers are ideal for single zone on/off or dimming control applications including private offices, open offices, conference rooms and classrooms. Metering enables facility managers to track building power usage for lighting or other loads. A network bridge, either wireless or wired (LMBC-650 or LMBC-300), is required to expose DLM local network power measurement readings to a segment manager or LMBC-650 Border Router, so they can be shared with a BAS.

FEATURES

- Push n' Learn™ functionality for personalization without the need for tools or a PC
- Digital Lighting Management components plug together on a free-topology Cat 5e DLM local network eliminating wiring errors
- On/Off/Dim local override button for each load
- LED indicates status of load
- 0-10V signal opens on loss of LMRC power
- Instantaneous current and voltage measurement of total connected load
- 3 RJ45 ports; molded cable tie ring for strain relief
- Zero-crossing circuitry for reliability and increased product life
- UL 2043 plenum rated
- This product meets the materials restrictions of RoHS
- BAA/TAA-compliant models available

PROJECT		LOCATION/ TYPE	
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Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : LMRC-111-20M

Type :



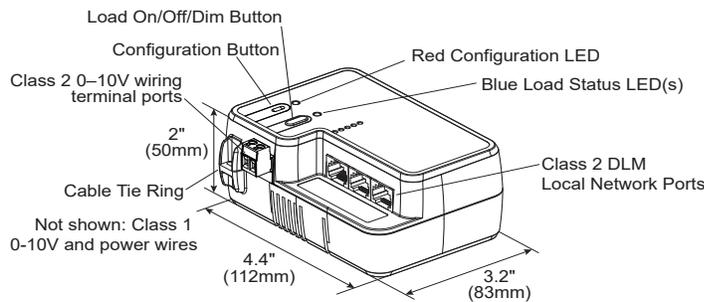
DIGITAL LIGHT MANAGEMENT | Load Controller

SPECIFICATIONS

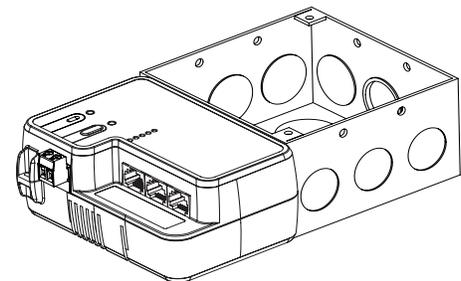
- Voltage: 120/277VAC; 50/60Hz
- Relay rated for up to: Incandescent 20A @ 120VAC, Ballast 20A @ 120VAC, E-ballast 20A @ 120/277VAC
- Galvanically isolated Class 1 pigtailed and Class 2 terminals for 0-10VDC signal; sinks up to 50mA (Class 1/Class 2) for control of compatible ballasts/drivers (25 if each source is 2mA)
- Class 2 output to DLM local network: 24VDC, intelligently provides 200mA across 3 RJ45 ports
- Compatible with LMCS Software v5.10 or later and DLM Configuration Tool (LMCT-100-2)
- DLM local network parameters:
 - Maximum current: 800mA
 - Category 5e cable: 150' per device to 1,000' max.
 - Up to 64 loads
 - Up to 48 communicating devices
 - Note: Max. 4 LMPB-100, LMPL-101, LMRC-101, or LMRC-102 Room Controllers
- Operating conditions: for indoor use only; @120/277V: 32-131°F (0-55°C); 5-95% RH, non-condensing
- UL and cUL listed (E207852), Complementary Listed to Emergency Lighting Equipment (UL924)
- FCC part 15 compliant
- Five year warranty

CONTROLS & MOUNTING

Controls and Dimensions



Mounting



Mount to 1/2" KO on a deep J-box
 Note: Can be installed an Electrical box to meet Chicago Plenum (CCEA) guidelines

Load Parameter (for each dimmed output)	Default Setting	Available Options
High trim	85%	1-100%
Low trim	0%	0-99%
Preset On Level	50%	0-100%
Preset level: Scenes 1-16	1: 100%, 2: 75%, 3: 50%, 4: 25%, 5-16: 100%	All: 0-100%
Preset fade time	2 seconds	0 seconds - 18 hours
Lamp burn in time	0	0, 12 or 100 hours



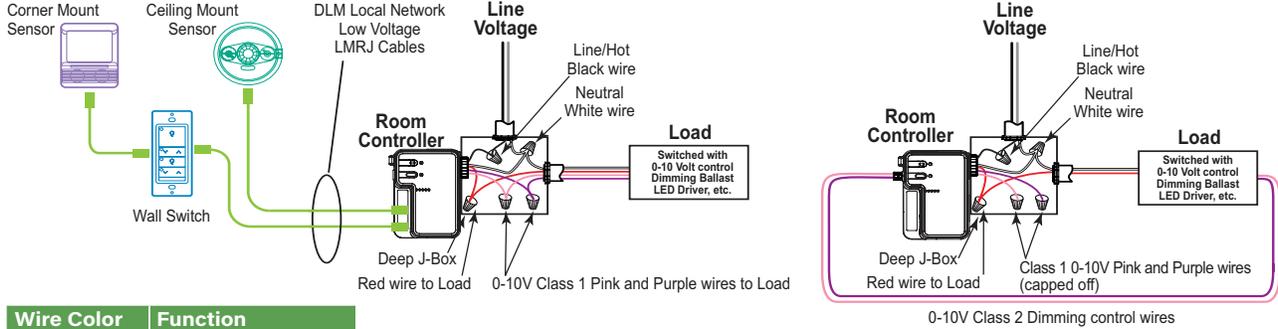
Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT
Manufacturer : WATTSTOPPER
Model Number : LMRC-111-20M

Type :



WATTSTOPPER®

SAMPLE CONNECTION DIAGRAM WITH CLASS 1 & CLASS 2 DIMMING CONTROL WIRING

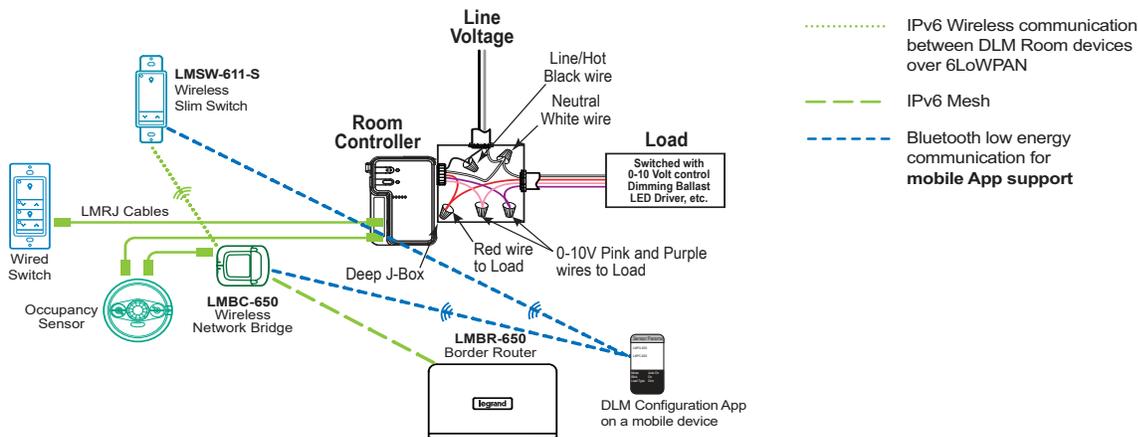


Wire Color	Function
Black	Line In
White	Neutral
Red	Load Switched Hot
Purple	Load 0-10V (+)
Pink	Load 0-10V (-)

Plug DLM local network components together in any configuration using Cat 5e cables with RJ45 connectors.

NOTE: Per UL, starting in 2021, the 0-10V negative dimming wire color has been changed from gray to pink.

SAMPLE CONNECTION DIAGRAM FOR A HYBRID ROOM WITH WIRED AND WIRELESS DEVICES



Note: For a single (non-networked) hybrid room, the LMBR-650 is not required.
Note: The DLM Config App can only connect with the LMBC-650 to update firmware or pair devices. You need an LMBR-650 and LMCS to commission a Hybrid room. For a single room, without an LMBR-650, LMCS can connect to the LMBC-650 via the LMCI.

ORDERING INFORMATION

Catalog #	Description	Voltage	Total Rating	Class 2 Outputs
LMRC-111-20M	1 Relay Room Controller, 0-10V dimming	120/277VAC	20A ballast, E-ballast or incandescent	24VDC, 200mA and 0-10VDC (0-10VDC signal also provided as Class 1)
LMRC-111-20M-U	1 Relay Room Controller, 0-10V dimming, BAA/TAA compliant*			
LMCT-100-2	Digital Wireless Configuration Tool			

*Product is compliant with Buy American Act and Trade Agreement Act

32235r4 Rev 12/24



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LMSW-210-COLOR

Notes : SPECIFY COLOR

Type :



WATTSTOPPER®

DLM WIRED STANDARD SWITCHES

LMSW-200 SERIES



Low voltage pushbutton switches for control of multiple loads

Customizable buttons with LED status indicators

Plug n' Go automatic configuration and Push n' Learn for personalization

IR transceiver for wireless configuration and remote control

Plug to other components using Cat 5e cables with RJ45 connectors eliminating wiring errors



DESCRIPTION

LMSW-200 Series Wall Switches are programmable, low voltage devices for manual on/off, dimming, and scene control of one or more loads from one or more locations. They are part of the Digital Lighting Management (DLM) system and can control any load(s) connected to DLM room controllers.

OPERATION

LMSW-200 Series Switches operate on Class 2 power supplied to a DLM local network by one or more room controllers. The switches send a digital signal whenever a button or rocker is pressed by a user. Plug n' Go™ automatic configuration assigns on/off, dimming, or scene behaviors to each button and rocker based on the switch's button layout and the types and quantities of other connected loads. When multiple switches are installed, default operation is for multi-way control; each switch controls all of the loads on the system. Button assignments may be quickly reconfigured using Push n' Learn™. Any scenes created may be redefined by adjusting room lighting to the desired scene level, and pressing and holding a scene button. Additional switch settings may be changed using DLM configuration tools.

BUTTON FEATURES & IR COMMUNICATIONS

Each button and rocker has an LED showing the status of the load(s) or scene assigned to it. The single-zone dimmer LMSW-211 also has an LED ladder in the bezel to track and annunciate the light level of controlled loads. When an unassigned button is pressed, the LED will blink. Buttons ship with the standardized engraving shown here, but may be personalized with custom-engraved buttons. The IR transceiver in each switch allows two-way communication for wireless system configuration.

APPLICATIONS

LMSW-200 Series Wall Switches are recommended for virtually all applications, including commercial offices, education environments, and health care facilities. Multiple switch types and quantities can be used in the same switch gang or room to create the ideal, multi-way user control scheme. LMSW-200 Series Wall Switches increase energy savings and improve the return on investment of any Digital Lighting Management system.

FEATURES

- Software lockable configuration button, accessible without faceplate removal
- Digital Lighting Management components plug together on a free-topology Category 5e DLM local network
- Infrared (IR) transceiver for wireless configuration and control
- Sleek single gang devices fit decorator wall plates
- Switches may be used for multi-way control
- Each button and rocker can control individual or multiple loads. Buttons can instead control one scene. LED indicates status.
- Each button can be used to dim assigned loads
- Custom engraving available to replace standard engraving
- The product meets the materials restrictions of RoHS

PROJECT		LOCATION/ TYPE	
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1

WWW.LEGRAND.US/WATTSTOPPER _____ designed to be better.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LMSW-210-COLOR

Notes : SPECIFY COLOR

Type :



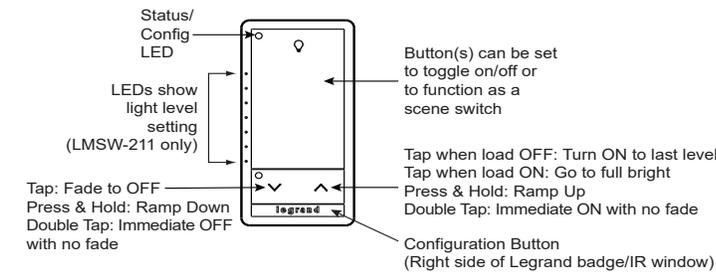
DIGITAL LIGHT MANAGEMENT | Personal Controls

SPECIFICATIONS

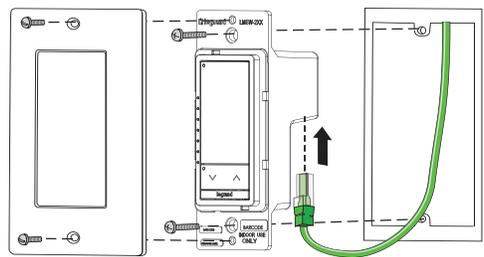
- Input voltage: 24VDC from DLM local network
- Current consumption: 5mA
- DLM local network connection: 2 RJ45 ports
- Many button configurations; LED status indicator for each button
- Infrared (IR) transceiver
- Operating conditions: for indoor use only; 32-131°F (0-55°C); 5-95% RH, non-condensing
- UL and cUL listed
- FCC part 15 compliant
- Five year warranty

CONTROLS & MOUNTING

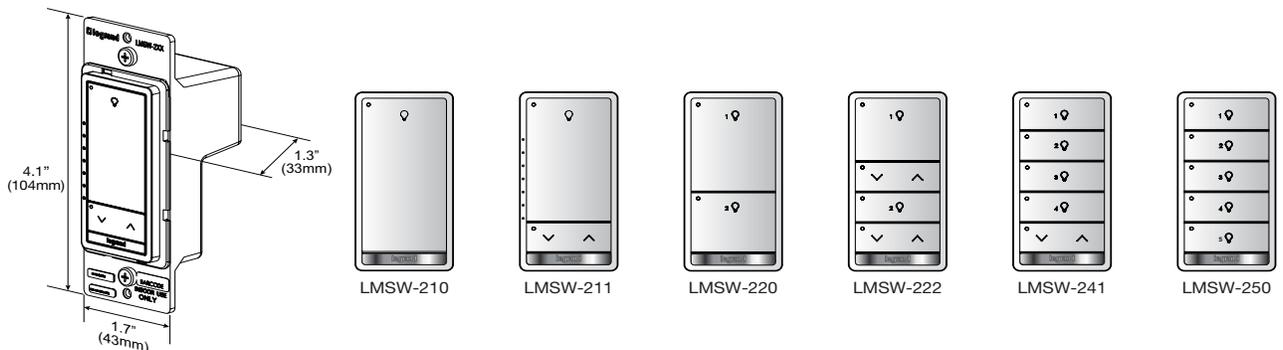
Product Controls, Dimensions and Models



Mounting

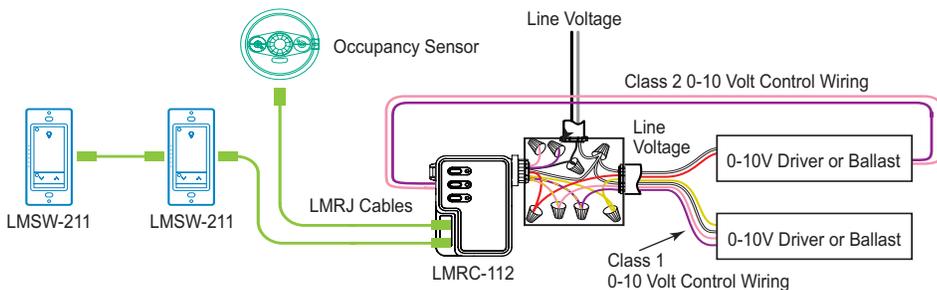


LMSW-200 Series Switches fit in standard single gang boxes.



CONNECTING

Sample Connection Diagram with Multi-way Bi-level Control



Plug DLM local network components together in any configuration using Cat 5e cables with RJ45 connectors.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LMSW-210-COLOR

Notes : SPECIFY COLOR

Type :



WATTSTOPPER®

ORDERING INFORMATION

Catalog #	Color	Description
<input type="checkbox"/> LMSW-210-W	White	SPECIFY COLOR 1-Button Standard Wall Switch Common Application Single-zone On/Off
<input type="checkbox"/> LMSW-210-LA	Light Almond	
<input type="checkbox"/> LMSW-210-I	Ivory	
<input type="checkbox"/> LMSW-210-GRY	Gray	
<input type="checkbox"/> LMSW-210-BK	Black	
<input type="checkbox"/> LMSW-210-BR	Brown	
<input type="checkbox"/> LMSW-210-RED	Red	
<input type="checkbox"/> LMSW-211-W	White	
<input type="checkbox"/> LMSW-211-LA	Light Almond	
<input type="checkbox"/> LMSW-211-I	Ivory	
<input type="checkbox"/> LMSW-211-GRY	Gray	
<input type="checkbox"/> LMSW-211-BK	Black	
<input type="checkbox"/> LMSW-211-BR	Brown	
<input type="checkbox"/> LMSW-211-RED	Red	
<input type="checkbox"/> LMSW-220-W	White	2-Button Standard Wall Switch Common Application Dual-zone On/Off
<input type="checkbox"/> LMSW-220-LA	Light Almond	
<input type="checkbox"/> LMSW-220-I	Ivory	
<input type="checkbox"/> LMSW-220-GRY	Gray	
<input type="checkbox"/> LMSW-220-BK	Black	
<input type="checkbox"/> LMSW-220-BR	Brown	
<input type="checkbox"/> LMSW-220-RED	Red	
<input type="checkbox"/> LMSW-222-W	White	
<input type="checkbox"/> LMSW-222-LA	Light Almond	
<input type="checkbox"/> LMSW-222-I	Ivory	
<input type="checkbox"/> LMSW-222-GRY	Gray	
<input type="checkbox"/> LMSW-222-BK	Black	
<input type="checkbox"/> LMSW-222-BR	Brown	
<input type="checkbox"/> LMSW-222-RED	Red	
<input type="checkbox"/> LMSW-241-W	White	4-Button, 1-Rocker Standard Wall Switch Common Application Multi-zone Scene Control
<input type="checkbox"/> LMSW-241-LA	Light Almond	
<input type="checkbox"/> LMSW-241-I	Ivory	
<input type="checkbox"/> LMSW-241-GRY	Gray	
<input type="checkbox"/> LMSW-241-BK	Black	
<input type="checkbox"/> LMSW-241-BR	Brown	
<input type="checkbox"/> LMSW-241-RED	Red	

Catalog #	Color	Description
<input type="checkbox"/> LMSW-250-W	White	5-Button Standard Wall Switch Common Application Multi-zone Load Control
<input type="checkbox"/> LMSW-250-LA	Light Almond	
<input type="checkbox"/> LMSW-250-I	Ivory	
<input type="checkbox"/> LMSW-250-GRY	Gray	
<input type="checkbox"/> LMSW-250-BK	Black	
<input type="checkbox"/> LMSW-250-BR	Brown	
<input type="checkbox"/> LMSW-250-RED	Red	

BAA/TAA Compliant Models*			
<input type="checkbox"/>	LMSW-210-W-U	White	1-Button Standard Wall Switch
<input type="checkbox"/>	LMSW-211-W-U	White	1-Button, 1-Rocker Standard Wall Switch
<input type="checkbox"/>	LMSW-220-W-U	White	2-Button Standard Wall Switch
<input type="checkbox"/>	LMSW-222-W-U	White	2-Button, 2-Rocker Standard Wall Switch
<input type="checkbox"/>	LMSW-241-W-U	White	4-Button, 1-Rocker Standard Wall Switch
<input type="checkbox"/>	LMSW-250-W-U	White	5-Button Standard Wall Switch

*Product is compliant with Buy American Act and Trade Agreement Act.

Note: Switches do not include face plates. Order decorator style plate separately. Legrand radiant* plates are recommended for optimal color matching.

31964r5 Rev 11/23



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LVSW-101-COLOR

Notes : SPECIFY COLOR

Type :



WATTSTOPPER®

LOW VOLTAGE SWITCHES

LVSW-100 SERIES

Low voltage pushbutton switches for on/off control of one or more loads

Compatible with LC8, LP8, LI and LMCP Series lighting control panels

LED pilot light on each button



Field replaceable button interface

Single gang devices, compatible with standard decorator style face plates

Appearance matches DLM LMSW-100 Series digital wall switches



DESCRIPTION

LVSW-100 Series Low Voltage Switches are lighting control devices that use conventional multi-conductor low voltage wiring for control of single or multiple loads. Each button provides a momentary contact that is intended for use with compatible low voltage relay panels or lighting control devices. Each button has an LED indicator that can serve as a status indicator or as a locator light.

LED AND BUTTON OPTIONS

Switches are available with one, two, three, four and eight buttons. If the connected panel supports the feature, the blue LED associated with each button can be used to indicate the state of the controlled lighting load. Alternately, the LED indicators can be lighted continuously and serve as locator lights to help users find the switch in the dark. Each switch may be personalized in the field with custom-engraved buttons.

OPERATION

LVSW-100 Series switches are totally passive and contain no active electronics or power supply. The buttons are single pole momentary contact and all share a common return. Operation is dependent upon a Class 2 connection to a compatible relay panel or other device that can react to a momentary contact signal. The LED indicators associated with each switch button are reliant on a 24 VDC source originating from the lighting control panel.

APPLICATIONS

The LVSW-100 Series Low Voltage Switches are perfect for use with LC8 Series lighting control panels, as well as Lighting Integrator panels or LP8 Series "Peanut" panels. The switches can also be used with Wattstopper Power Packs or Occupancy Sensors with a manual override input terminal. They are ideal for applications that do not require, or do not accommodate, digital switch control yet would benefit from the styling that matches the appearance of Digital Lighting Management (DLM) digital wall switches, such as projects combining DLM controls and small panels.

FEATURES

- Sleek single gang devices fit decorator wall plates (not supplied)
- 1-, 2-, 3-, 4-, and 8-button models
- Blue LED indicator on each button can be used as a locator light or as a status indicator
- Five color options and custom engraving options; standard buttons may be replaced in the field
- The product meets the materials restrictions of RoHS

PROJECT

LOCATION/
TYPE



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LVSW-101-COLOR

Notes : SPECIFY COLOR

Type :



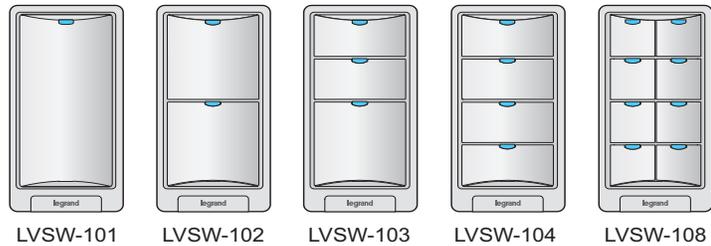
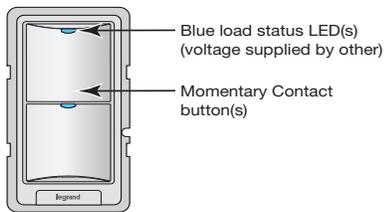
LIGHTING CONTROL PANEL SYSTEMS | Switches

SPECIFICATIONS

- Input voltage: 24 VDC maximum, from panel
- Maximum contact operating current: 50 mA
- Maximum operating current (per LED): 30 mA
- Wire connections; removable terminal blocks
 - One terminal per button
 - One terminal per LED
 - Two common terminals; shared with all buttons and LEDs
- Operating conditions: for indoor use only; 32-130°F (0-55°C), 5-95% RH non-condensing
- UL and cUL listed
- Five year warranty

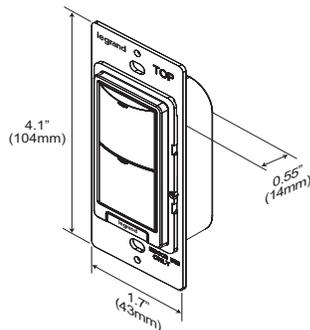
PRODUCT CONTROLS

Product Controls and Models

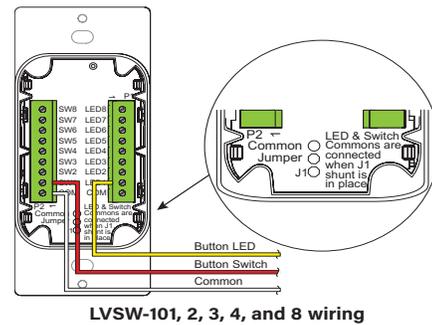


DIMENSIONS & WIRING

Dimensions



Wiring



Typical wiring for one button and LED. Add two additional wires for each additional button and LED (e.g. 5 wires for LVSW-102, 7 wires for LVSW-103, etc.).

NOTE: A removable jumper/shunt is included on all models to connect the two common terminals, or keep them electrically isolated.



Job Name : CHITIMACHA SCHOOL- HVAC & ROOF REPLACEMENT

Manufacturer : WATTSTOPPER

Model Number : LVSW-101-COLOR

Notes : SPECIFY COLOR

Type :



WATTSTOPPER®

ORDERING INFORMATION

Catalog #	Color	Description
<input type="checkbox"/> LVSW-101-W	White	SPECIFY COLOR 1-Button Low Voltage Wall Switch
<input type="checkbox"/> LVSW-101-LA	Light Almond	
<input type="checkbox"/> LVSW-101-I	Ivory	
<input type="checkbox"/> LVSW-101-G	Gray	
<input type="checkbox"/> LVSW-101-B	Black	
<input type="checkbox"/> LVSW-102-W	White	
<input type="checkbox"/> LVSW-102-LA	Light Almond	
<input type="checkbox"/> LVSW-102-I	Ivory	
<input type="checkbox"/> LVSW-102-G	Gray	
<input type="checkbox"/> LVSW-102-B	Black	
<input type="checkbox"/> LVSW-103-W	White	3-Button Low Voltage Wall Switch
<input type="checkbox"/> LVSW-103-LA	Light Almond	
<input type="checkbox"/> LVSW-103-I	Ivory	
<input type="checkbox"/> LVSW-103-G	Gray	
<input type="checkbox"/> LVSW-103-B	Black	

Catalog #	Color	Description
<input type="checkbox"/> LVSW-104-W	White	4-Button Low Voltage Wall Switch
<input type="checkbox"/> LVSW-104-LA	Light Almond	
<input type="checkbox"/> LVSW-104-I	Ivory	
<input type="checkbox"/> LVSW-104-G	Gray	
<input type="checkbox"/> LVSW-104-B	Black	
<input type="checkbox"/> LVSW-108-W	White	
<input type="checkbox"/> LVSW-108-LA	Light Almond	
<input type="checkbox"/> LVSW-108-I	Ivory	
<input type="checkbox"/> LVSW-108-G	Gray	
<input type="checkbox"/> LVSW-108-B	Black	

Note: Switches do not include face plates. Order decorator style plate separately.

31523r1 Rev 07/2021