



TruGroove suspended micro (lens) 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 suspended micro includes AccuRender technology for the highest color quality at the highest efficacy

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

Ordering guide¹²

example: TM05L940QRPC230Q5008D51NC5W, A6-1-24

Family	Version	Distribution	Source	CRI/CCT ^{5, 5, 8, 14}		
TM TruGroove micro	0 Suspended	1 Direct 3 Indirect 5 Indirect / Direct 6 Direct / Indirect	L LED	950 CRI 90, 5000K 930 CRI 90, 3000K	940 CRI 90, 4000K 927 CRI 90, 2700K	935 CRI 90, 3500K 9T2 CRI 90, 2700-6500K 2ch Tunable White (please confirm driver & controls)
Optics (Direct)		Louver Color	Louver Length ¹⁵	Louver Position ¹⁵	Lumens (Direct) ^{1, 16}	Optics (Indirect)
Lens Optic ^{9, 16}	Louver Cell Optic ^{9, 15}					Lumens (Indirect) ^{1, 16}
N No Lens (must specify louver optic)	N No Louver (must specify lens optic)	N None	N None	N None	NN None	N None
Q Performance Symmetric Batwing	G Performance 17° Graze Beam w/MesoOptics	B Black	C 6in (3 Cells)	1 One End	40 4000 lm/4ft	Q Performance Symmetric
Flush MesoOptics	R Performance 27° Narrow Beam w/MesoOptics	W White	1 1ft (6 Cells)	2 Both Ends	35 3500 lm/4ft	W Performance Asymmetric
W Performance Asymmetric Wall Wash	M Performance 48° Medium Beam w/MesoOptics	P Platinum	F Full Length	F Full Length	30 3000 lm/4ft	
Flush MesoOptics	S Performance 63° Stack Beam w/MesoOptics	G Gold			25 2500 lm/4ft	
L Definition Symmetric Flush Silk	Q Performance 61° Symmetric Batwing w/MesoOptics	C Copper			20 2000 lm/4ft	
D Definition Symmetric Drop Silk	W Performance 20° Asymmetric Wall Wash w/MesoOptics				15 1500 lm/4ft	
B Definition Symmetric Flush Black	K Definition Symmetric Silk Optic				10 1000 lm/4ft	
					07 700 lm/4ft	
Notes: For lens/louver combinations please select both lens and louver options. FF Full length louver cannot be combined with a lens, must select N for lens option. Continuous runs available in 6in increments (please specify length).						
Voltage ³	Driver ^{3, 5}	Circuit ^{7, 10, 11}	Wiring Option ^{2, 5, 6, 10, 13}	System/Controls ^{5, 9, 14}	Run Length ⁷	
D UNV 120-277V	E Advance Xitanium 0-10V (1% Dim)	1 Single Circuit	N None	NN None	02 2ft	
3 347V		V Single Circuit + 1 Thru Wire (BP Trigger)	B Battery Pack	CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time.	C2 2.5ft	
D UNV 120-277V	D Advance Xitanium DALI (5% Dim)	F Single Circuit + 4 Thru Wires (Mains & Dimming)	E Auxiliary Wiring	SB Interact Pro Enterprise advanced wireless sensor bundle, Integral SC1500 with IoT capabilities for enterprise scale projects.	03 3ft	
	H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)	W Dual Circuit (Up/Down)	G GTD (please specify voltage)		C3 3.5ft	
D UNV 120-277V	S Advance Xitanium SR (1% Dim)	W Dual Circuit (Up/Down) + 1 Thru Wire (BP Trigger)			04 4ft	
		1 Single Circuit	N None	NN None	05 5ft	
		V Single Circuit + 1 Thru Wire (BP Trigger)	B Battery Pack	CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time.	06 6ft	
D UNV 120-277V	F Advance FlexTune SR (1% Dim)		R UL924 Sensor Bypass Relay	SB Interact Pro Enterprise advanced wireless sensor bundle, Integral SC1500 with IoT capabilities for enterprise scale projects.	08 8ft	
	2 0-10V 2ch (1% Dim)	1 Single Circuit			XX Continuous run	
	6 DALI-2 DT6 2ch (1% Dim)	V Single Circuit + 1 Thru Wire (BP Trigger)				
	8 DALI-2 DT8 2ch (1% Dim)					
L Low Voltage (48-54V DC)	P PoE Lighting Controller	1 Single Circuit	N None	NN None		
			B Battery Pack	IO Interact Office wired sensor with integral daylighting & occupancy sensing, enables wired connected lighting control.		
				SB Interact Office advanced wired sensor bundle, Integral SC2000 with IoT capabilities for enterprise scale projects.		
Finish ¹⁷	Mount Type	Ceiling Type	Suspension Length			
W Standard White	A Aircraft Cable Mount	1 Non-accessible ceiling, 0°-15° Slope Mount	24 24"	144 144"	192 192"	
T Titanium Silver		2 T-Grid, Fixed Position Mount	48 48"	96 96"	240 240"	
B Midnight Black		3 Non-accessible ceiling, 0°-90° Slope Mount				
G Graphite Grey		5 T-Grid 24" Span Mount, (non regular tile only)				
1 Dark Walnut Woodgrain		6-1 T-Grid On-Grid Mount 15/16", (non regular tile only)				
2 Light Cherry Woodgrain		6-2 T-Grid On-Grid Mount 9/16", (non regular tile only)				
3 White Cherry Woodgrain		6-3 T-Grid On-Grid Mount 9/16" x 5/16", (slot tee & regular tile)				
C Custom (please specify color)						

Finish options



Standard White (W)



Titanium Silver (T)



Midnight Black (B)



Graphite Grey (G)



Dark Walnut (1)



Light Cherry (2)



White Cherry (3)

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

TruGroove suspended micro (lens)

Order 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 & Interact Office Wired (PoE) options require separate controls hardware by Signify.
5. Tunable White options are available with Interact Pro wireless or with 2ch 0-10V, DALI-2 (DT6 or DT8) or Interact Office (PoE) wired drivers. Please enquire about options such as Lutron T Series or DMX control (extended lead times may apply).
6. Auxiliary Wiring not available with Interact Pro or Interact Office Wired (PoE) 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 Sensor Ready driver options. Default sensor color is white, fixtures with black or dark finishes have black sensors. (Consult factory for other combinations).
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.
17. Woodgrain finishes only available in straight runs.

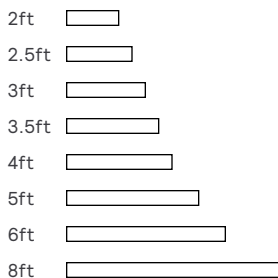
Note: Due to continuing product improvements, Ledalite reserves the right to change the specifications without notice.

TruGroove suspended micro (lens)

Options and dimensions

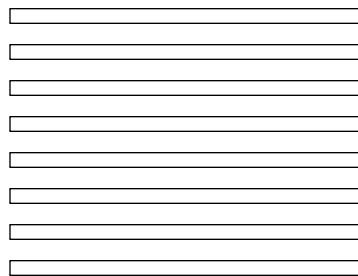
Standalone

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



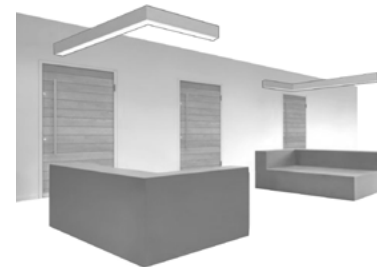
Continuous Run

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



Patterns

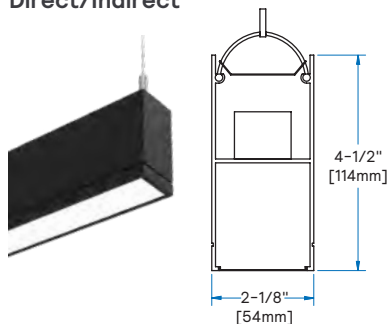
Seamlessly create any pattern imaginable (flat corners are 90°, contact Ledalite for custom angles and intersections).



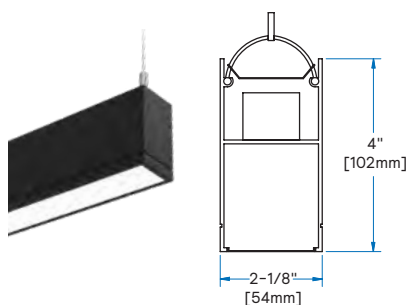
Flush lens

TruGroove suspended micro with 1.75" wide Flush MesoOptics or Silk Lens.

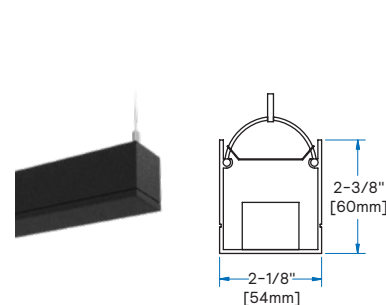
Direct/Indirect



Direct



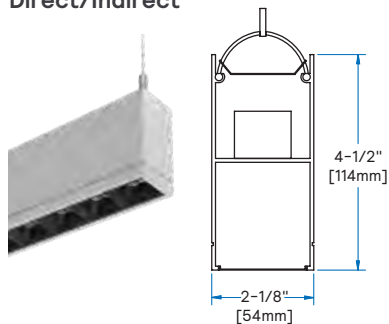
Indirect



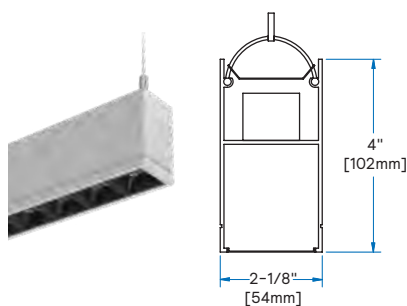
Louver

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

Direct/Indirect



Direct

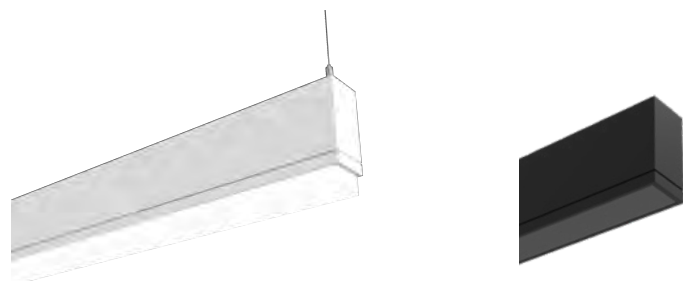


Louvers can be ordered at the full fixture length or in 6 in. or 1 ft sections at one or both ends of a fixture in combination with a lens.



Drop lens and black lens

TruGroove suspended micro with drop lens and black lens options.

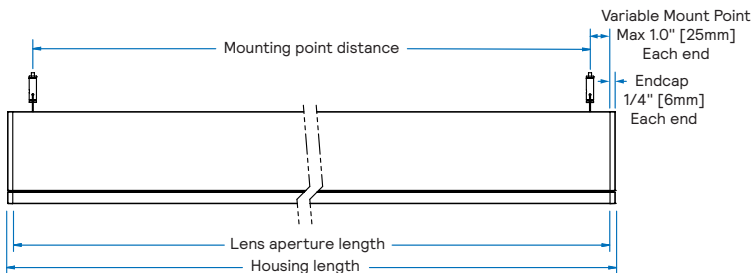


TruGroove suspended micro (lens)

Options and dimensions

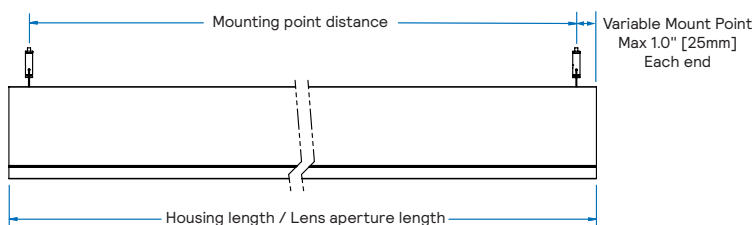
Side Views

Standalone



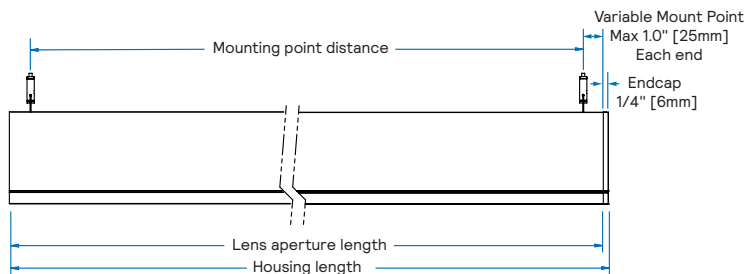
Nominal	Housing	Lens Aperture	Mounting Points
2ft	24.5" [622mm]	24.0" [610mm]	22.0" [559mm] to 23.5" [597mm]
2.5ft	30.5" [775mm]	30.0" [762mm]	28.0" [711mm] to 29.5" [749mm]
3ft	36.5" [927mm]	36.0" [914mm]	34.0" [864mm] to 35.5" [902mm]
3.5ft	42.5" [1080mm]	42.0" [1067mm]	40.0" [1016mm] to 41.5" [1054mm]
4ft	48.5" [1232mm]	48.0" [1219mm]	46.0" [1168mm] to 47.5" [1207mm]
5ft	60.5" [1537mm]	60.0" [1524mm]	58.0" [1473mm] to 59.5" [1511mm]
6ft	72.5" [1842mm]	72.0" [1829mm]	70.0" [1718mm] to 71.5" [1816mm]
8ft	96.5" [2451mm]	96.0" [2438mm]	94.0" [2388mm] to 95.5" [2426mm]

Continuous Run (Mid-run)



Nominal	Housing	Lens Aperture	Mounting Points
2ft	24.0" [610mm]	24.0" [610mm]	22.0" [559mm] to 23.5" [597mm]
2.5ft	30.0" [762mm]	30.0" [762mm]	28.0" [711mm] to 29.5" [749mm]
3ft	36.0" [914mm]	36.0" [914mm]	34.0" [864mm] to 35.5" [902mm]
3.5ft	42.0" [1067mm]	42.0" [1067mm]	40.0" [1016mm] to 41.5" [1054mm]
4ft	48.0" [1219mm]	48.0" [1219mm]	46.0" [1168mm] to 47.5" [1207mm]
5ft	60.0" [1524mm]	60.0" [1524mm]	58.0" [1473mm] to 59.5" [1511mm]
6ft	72.0" [1829mm]	72.0" [1829mm]	70.0" [1718mm] to 71.5" [1816mm]
8ft	96.0" [2438mm]	96.0" [2438mm]	94.0" [2388mm] to 95.5" [2426mm]

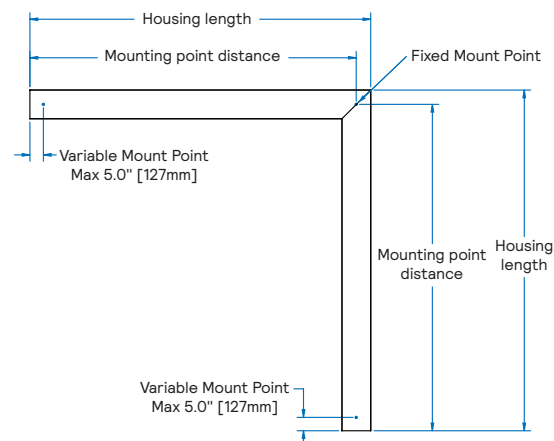
Continuous Run (End-run)



Nominal	Housing	Lens Aperture	Mounting Points
2ft	24.25" [616mm]	24.0" [610mm]	22.0" [559mm] to 23.5" [597mm]
2.5ft	30.25" [768mm]	30.0" [762mm]	28.0" [711mm] to 29.5" [749mm]
3ft	36.25" [921mm]	36.0" [914mm]	34.0" [864mm] to 35.5" [902mm]
3.5ft	42.25" [1073mm]	42.0" [1067mm]	40.0" [1016mm] to 41.5" [1054mm]
4ft	48.25" [1226mm]	48.0" [1219mm]	46.0" [1168mm] to 47.5" [1207mm]
5ft	60.25" [1530mm]	60.0" [1524mm]	58.0" [1473mm] to 59.5" [1511mm]
6ft	72.25" [1842mm]	72.0" [1829mm]	70.0" [1718mm] to 71.5" [1816mm]
8ft	96.25" [2445mm]	96.0" [2438mm]	94.0" [2388mm] to 95.5" [2426mm]

Top View

Flat Corner 90°



Nominal	Housing	Mounting Points
2ft x 2ft	25.1" [636mm]	23.0" [585mm]

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

TruGroove suspended micro (lens)

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.

Indirect hemisphere: White light emitted from a linear array of upward-facing LEDs is shaped into a homogeneous, wide-throw batwing distribution or a low peak angle asymmetric throw using either a free-form elliptical lens or an engineered light guide panel.

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

Suspended: Variable sling mount allows $\pm 5"$ of horizontal adjustment from joint or end. Aircraft cable and tamper-resistant gripper provide unlimited vertical adjustment and are independently tested to stringent safety standards.

Joints

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

Weight

Maximum 3.8/ft (suspended), 10lb (2ft x 2ft suspended 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.
PoE Lighting Controller (for PoE tunable white).
Lutron EcoSystem LDE1, 1% Dimming with Soft-On and Fade-to-Black. Class 2 rated output. Consult Ledalite for other available drivers.

2ch Tunable Drivers

Advance FlexTune Sensor Ready, 1% Dimming.
0-10V, 1% Dimming.
DALI-2 DT6 or DT8, 1% Dimming.
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.
PoE Battery Pack, 90 min, 6W, Class 2 rated output.
Lumen output = 6W x luminaire efficacy. Typical output ~650lm.

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:
 $CRI R_a \geq 90, R_g \geq 50, G_a \geq 97, C_a \geq 90$
IES TM-30-18: $R_f \geq 90, R_{f,hl} \geq 89, R_g \geq 99, R_{cs,hl} \geq -5\%$
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.

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

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

Luminaires that include Interact Pro controls options can help meet the requirements in 90.1-2022, IECC 2021, and CA T24 2022 for a maximum of 20min. time out for occupancy controls.

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

TruGroove suspended micro (lens)

Wireless Controls Options

Interact Pro scalable sensor for Foundation, Advanced & Enterprise tiers (CS is 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

Interact Office Wired PoE (IO & SB):

- PoE based IoT connected lighting solution for large enterprises that span across multiple floors, buildings and require multiple gateways.
- Use Interact software and insights to increase building efficiency, achieve building wide integration and optimize space through occupancy analytics.
- Integral sensor option for occupancy sensing (PIR) and/or daylight harvesting available for additional energy savings.
- 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.
- Optional integral emergency controller and battery pack provides backup lighting in the case of a power outage. Test switch and indicator light mounted on the chassis.
- Emergency battery has a 3 month pre-installed shelf life, and must be stored and installed in environments of -20°C to 30°C (-4F to 86F) ambient, and 45-85% relative humidity.
- For more information on Interact Office Wired visit:
www.interact-lighting.com/office

Note: Signify Interact Office Luminaires are not sold individually and are only compatible with Signify's Interact Office control system & software. The system requires a compatible back-end IT infrastructure for normal operations, please consult your Signify representative for additional information.

Tunable White:

- Tunable White is available in Interact Office Wired PoE luminaires. Other control options for Tunable White with DALI (DT6 or DT8), 0-10V, Lutron T Series 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
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	-	-

TruGroove suspended micro (lens)

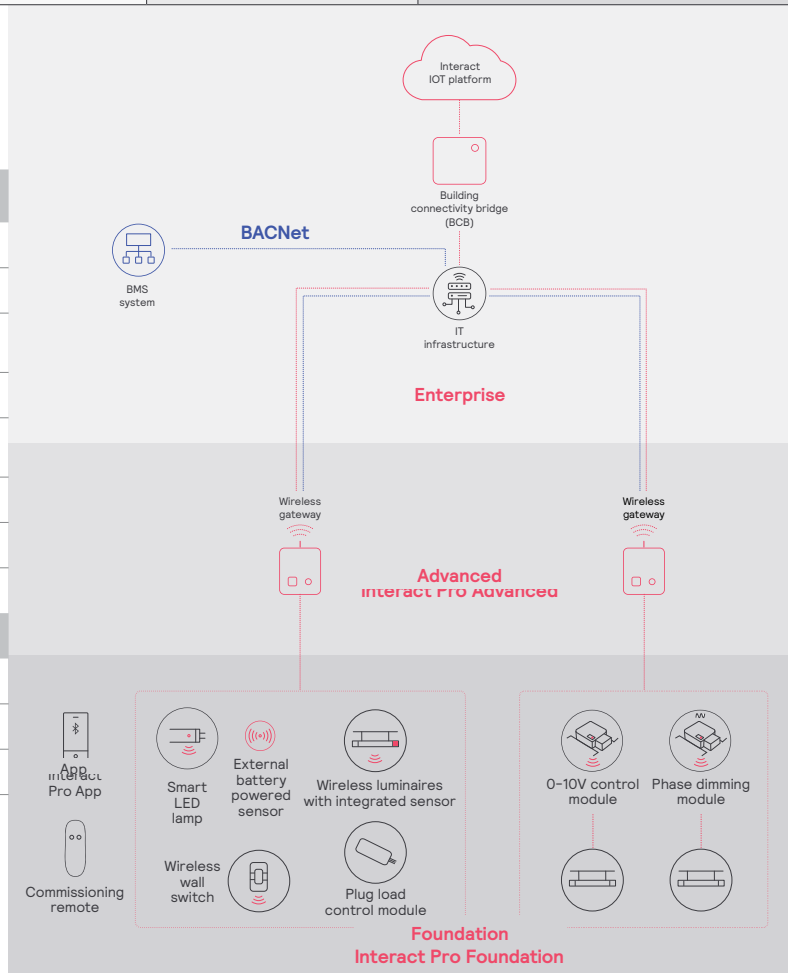
Functionalities overview

	Interact Pro scalable system		
	Foundation	Advanced	Enterprise
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



TruGroove suspended micro (lens)

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_9	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 lens.

Photometry for TruGroove suspended micro with louvers can be found by scanning the QR code or following the link:

https://www.signify.com/api/assets/v1/file/Signify/content/7ee2b6d4e0de4996a2aeae6e01177639/TruGroove_Suspended_Micro_Louver_SpecSheet.pdf



TruGroove suspended micro (lens)

Photometry

Direct (TM01) Performance Symmetric Batwing Flush MesoOptic lens

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 ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File
Direct	Indirect																										
4000	NA	43.1	3,759	87.2	25.5	PDF	IES	3,856	89.5	25.6	PDF	IES	3,995	92.7	25.7	PDF	IES	4,038	93.7	25.7	PDF	IES	4,085	94.8	25.8	PDF	IES
3500	NA	37.3	3,294	88.3	25.0	PDF	IES	3,372	90.4	25.1	PDF	IES	3,498	93.8	25.3	PDF	IES	3,537	94.8	25.3	PDF	IES	3,575	95.8	25.3	PDF	IES
3000	NA	31.6	2,832	89.6	24.5	PDF	IES	2,894	91.6	24.6	PDF	IES	3,006	95.1	24.7	PDF	IES	3,039	96.2	24.8	PDF	IES	3,070	97.2	24.8	PDF	IES
2500	NA	26.4	2,358	89.3	23.9	PDF	IES	2,407	91.2	24.0	PDF	IES	2,503	94.8	24.1	PDF	IES	2,530	95.8	24.1	PDF	IES	2,555	96.8	24.2	PDF	IES
2000	NA	20.7	1,892	91.4	23.1	PDF	IES	1,930	93.2	23.2	PDF	IES	2,008	97.0	23.3	PDF	IES	2,029	98.0	23.4	PDF	IES	2,048	98.9	23.4	PDF	IES
1500	NA	15.9	1,416	89.1	22.1	PDF	IES	1,445	90.9	22.2	PDF	IES	1,505	94.7	22.3	PDF	IES	1,518	95.5	22.4	PDF	IES	1,533	96.4	22.4	PDF	IES
1000	NA	11.2	933	83.3	20.7	PDF	IES	952	85.0	20.7	PDF	IES	993	88.7	20.9	PDF	IES	999	89.2	20.9	PDF	IES	1,010	90.2	20.9	PDF	IES

Direct (TM01) Performance Asymmetric Wall Wash Flush MesoOptic lens

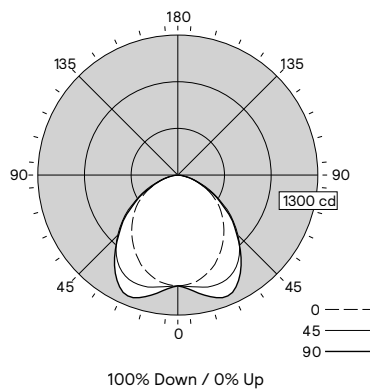
Nominal CRI & CCT			CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File
Direct	Indirect																										
4000	NA	43.1	3,641	84.5	24.9	PDF	IES	3,735	86.7	25.0	PDF	IES	3,870	89.8	25.1	PDF	IES	3,911	90.7	25.1	PDF	IES	3,957	91.8	25.2	PDF	IES
3500	NA	37.3	3,190	85.5	24.4	PDF	IES	3,266	87.6	24.5	PDF	IES	3,388	90.8	24.6	PDF	IES	3,426	91.8	24.7	PDF	IES	3,463	92.8	24.7	PDF	IES
3000	NA	31.6	2,743	86.8	23.9	PDF	IES	2,803	88.7	24.0	PDF	IES	2,912	92.2	24.1	PDF	IES	2,944	93.2	24.2	PDF	IES	2,974	94.1	24.2	PDF	IES
2500	NA	26.4	2,284	86.5	23.3	PDF	IES	2,332	88.3	23.3	PDF	IES	2,425	91.9	23.5	PDF	IES	2,451	92.8	23.5	PDF	IES	2,475	93.8	23.6	PDF	IES
2000	NA	20.7	1,832	88.5	22.5	PDF	IES	1,869	90.3	22.6	PDF	IES	1,945	94.0	22.7	PDF	IES	1,965	94.9	22.7	PDF	IES	1,984	95.8	22.8	PDF	IES
1500	NA	15.9	1,371	86.2	21.5	PDF	IES	1,399	88.0	21.6	PDF	IES	1,458	91.7	21.7	PDF	IES	1,470	92.5	21.7	PDF	IES	1,485	93.4	21.8	PDF	IES
1000	NA	11.2	904	80.7	20.0	PDF	IES	922	82.3	20.1	PDF	IES	962	85.9	20.3	PDF	IES	968	86.4	20.3	PDF	IES	979	87.4	20.3	PDF	IES

Direct (TM01) Definition Symmetric Flush Silk lens

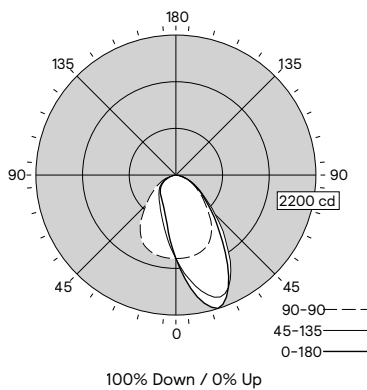
Nominal CRI & CCT			CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K				
Nominal Lumen Package (lm/4ft)		Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File
Direct	Indirect																										
4000	NA	43.1	3,955	91.8	27.2	PDF	IES	4,058	94.2	27.3	PDF	IES	4,204	97.5	27.4	PDF	IES	4,249	98.6	27.4	PDF	IES	4,299	99.7	27.5	PDF	IES
3500	NA	37.3	3,466	92.9	26.7	PDF	IES	3,548	95.1	26.8	PDF	IES	3,681	98.7	26.9	PDF	IES	3,721	99.8	27.0	PDF	IES	3,762	100.9	27.0	PDF	IES
3000	NA	31.6	2,980	94.3	26.2	PDF	IES	3,045	96.4	26.3	PDF	IES	3,163	100.1	26.4	PDF	IES	3,198	101.2	26.4	PDF	IES	3,231	102.2	26.5	PDF	IES
2500	NA	26.4	2,482	94.0	25.6	PDF	IES	2,533	95.9	25.6	PDF	IES	2,634	99.8	25.8	PDF	IES	2,662	100.8	25.8	PDF	IES	2,688	101.8	25.8	PDF	IES
2000	NA	20.7	1,990	96.1	24.8	PDF	IES	2,031	98.1	24.9	PDF	IES	2,113	102.1	25.0	PDF	IES	2,135	103.1	25.0	PDF	IES	2,155	104.1	25.1	PDF	IES
1500	NA	15.9	1,490	93.7	23.8	PDF	IES	1,520	95.6	23.9	PDF	IES	1,583	99.6	24.0	PDF	IES	1,597	100.4	24.0	PDF	IES	1,613	101.4	24.1	PDF	IES
1000	NA	11.2	982	87.7	23.3	PDF	IES	1,002	89.5	22.4	PDF	IES	1,045	93.3	22.5	PDF	IES	1,052	93.9	22.6	PDF	IES	1,063	94.9	22.6	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 4Hx8Hx1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.

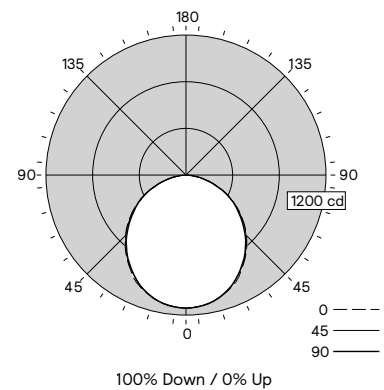
Performance Symmetric Batwing Flush MesoOptic lens
Spacing Criteria: 1.17/1.48



Performance Asymmetric Wall Wash Flush MesoOptic lens
Spacing Criteria: 1.44/1.23



Definition Symmetric Flush Silk lens
Spacing Criteria: 1.23/1.22



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

TruGroove suspended micro (lens)

Photometry

Indirect (TM03) Performance Symmetric lens

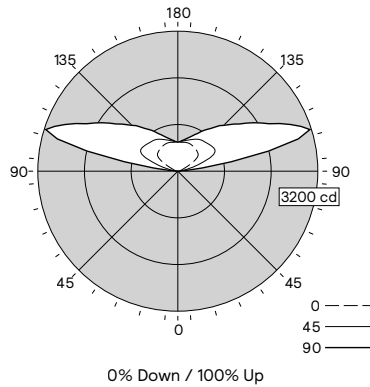
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File		
Direct	Indirect																												
NA	7000	55.6	6,532	117.5	N/A	PDF	IES	6,717	120.8	N/A	PDF	IES	7,004	126.0	N/A	PDF	IES	7,089	127.5	N/A	PDF	IES	7,244	130.3	N/A	PDF	IES		
NA	6000	45.8	5,606	122.4	N/A	PDF	IES	5,766	125.9	N/A	PDF	IES	5,997	130.9	N/A	PDF	IES	6,079	132.7	N/A	PDF	IES	6,213	135.7	N/A	PDF	IES		
NA	5000	37.6	4,693	124.8	N/A	PDF	IES	4,825	128.3	N/A	PDF	IES	5,005	133.1	N/A	PDF	IES	5,079	135.1	N/A	PDF	IES	5,195	138.2	N/A	PDF	IES		
NA	4000	29.4	3,754	127.7	N/A	PDF	IES	3,860	131.3	N/A	PDF	IES	3,992	135.8	N/A	PDF	IES	4,057	138.0	N/A	PDF	IES	4,150	141.2	N/A	PDF	IES		
NA	3000	22.2	2,817	126.9	N/A	PDF	IES	2,899	130.6	N/A	PDF	IES	2,992	134.8	N/A	PDF	IES	3,043	137.1	N/A	PDF	IES	3,110	140.1	N/A	PDF	IES		
NA	2000	14.7	1,895	128.9	N/A	PDF	IES	1,954	132.9	N/A	PDF	IES	2,011	136.8	N/A	PDF	IES	2,049	139.4	N/A	PDF	IES	2,089	142.1	N/A	PDF	IES		
NA	1000	8.5	950	111.8	N/A	PDF	IES	981	115.4	N/A	PDF	IES	1,005	118.2	N/A	PDF	IES	1,029	121.1	N/A	PDF	IES	1,045	122.9	N/A	PDF	IES		

Indirect (TM03) Performance Asymmetric lens

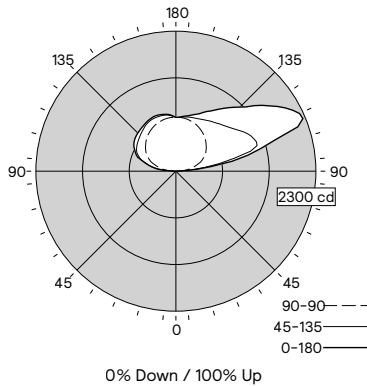
Nominal CRI & CCT		Watts	CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Nominal Lumen Package (lm/4ft)			Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File		
Direct	Indirect																												
NA	6000	57.3	5,602	97.8	N/A	PDF	IES	5,759	100.5	N/A	PDF	IES	6,008	104.9	N/A	PDF	IES	6,079	106.1	N/A	PDF	IES	6,212	108.4	N/A	PDF	IES		
NA	5000	45.6	4,681	102.7	N/A	PDF	IES	4,815	105.6	N/A	PDF	IES	5,007	109.8	N/A	PDF	IES	5,075	111.3	N/A	PDF	IES	5,187	113.8	N/A	PDF	IES		
NA	4000	35.7	3,753	105.1	N/A	PDF	IES	3,859	108.1	N/A	PDF	IES	4,000	112.0	N/A	PDF	IES	4,060	113.7	N/A	PDF	IES	4,153	116.3	N/A	PDF	IES		
NA	3000	26.4	2,824	107.0	N/A	PDF	IES	2,904	110.0	N/A	PDF	IES	3,001	113.7	N/A	PDF	IES	3,051	115.6	N/A	PDF	IES	3,120	118.2	N/A	PDF	IES		
NA	2000	17.3	1,888	109.1	N/A	PDF	IES	1,945	112.4	N/A	PDF	IES	2,004	115.8	N/A	PDF	IES	2,040	117.9	N/A	PDF	IES	2,082	120.3	N/A	PDF	IES		
NA	1000	9.5	939	98.8	N/A	PDF	IES	970	102.1	N/A	PDF	IES	995	104.7	N/A	PDF	IES	1,017	107.1	N/A	PDF	IES	1,033	108.7	N/A	PDF	IES		

- 4 ft 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.
- Unified Glare Ratio (UGR) is calculated in accordance with CIE 117-1995. Reference conditions of 4Hx8Hx1H and reflectances of 70/50/20% have been applied using the procedure described in CIE 190-2010.

Performance Symmetric lens



Performance Asymmetric lens



Candela plots shown are for 5000lm/4ft, CRI 90, 3500K configurations.

TruGroove suspended micro (lens)

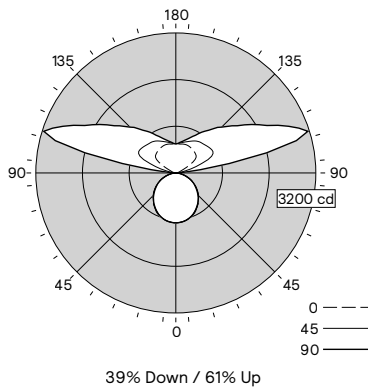
Photometry

Direct/Indirect (TM05 & TM06) Definition Symmetric Flush Silk lens

Nominal CRI & CCT		CRI 90, 2700K					CRI 90, 3000K					CRI 90, 3500K					CRI 90, 4000K					CRI 90, 5000K						
Direct	Indirect	Watts	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) ¹	UGR ⁵	Photometry Report	IES File	
			4000		7000	98.7	10,487	106.3	21.9	PDF	IES	10,774	109.2	22.0	PDF	IES	11,208	113.6	22.0	PDF	IES	11,338	114.9	22.0	PDF	IES	11,542	116.9
6000	88.9	9,561			107.5	22.2	PDF	IES	9,824	110.5	22.3	PDF	IES	10,201	114.7	22.5	PDF	IES	10,328	116.2	22.5	PDF	IES	10,511	118.2	22.5	PDF	IES
3500		5000	80.8	8,648	107.0	22.7	PDF	IES	8,883	109.9	22.8	PDF	IES	9,209	114.0	22.9	PDF	IES	9,329	115.5	23.0	PDF	IES	9,494	117.5	22.9	PDF	IES
		4000	72.4	7,709	106.5	23.3	PDF	IES	7,917	109.4	23.4	PDF	IES	8,196	113.2	23.5	PDF	IES	8,306	114.7	23.5	PDF	IES	8,448	116.7	23.5	PDF	IES
3000		3000	65.0	6,772	104.2	23.8	PDF	IES	6,957	107.0	23.9	PDF	IES	7,196	110.7	24.1	PDF	IES	7,293	112.2	24.1	PDF	IES	7,409	114.0	24.2	PDF	IES
		2000	57.6	5,850	101.6	24.6	PDF	IES	6,012	104.4	24.7	PDF	IES	6,215	107.9	24.8	PDF	IES	6,298	109.3	24.9	PDF	IES	6,387	110.9	24.9	PDF	IES
2500		1000	51.2	4,906	95.8	25.7	PDF	IES	5,039	98.4	25.8	PDF	IES	5,209	101.7	25.9	PDF	IES	5,278	103.1	26.0	PDF	IES	5,343	104.4	26.0	PDF	IES
		7000	92.9	9,998	107.6	21.0	PDF	IES	10,265	110.5	21.1	PDF	IES	10,685	115.0	21.2	PDF	IES	10,810	116.4	21.3	PDF	IES	11,005	118.5	21.2	PDF	IES
2000		6000	83.1	9,072	109.2	21.5	PDF	IES	9,315	112.1	21.6	PDF	IES	9,678	116.5	21.6	PDF	IES	9,800	117.9	21.6	PDF	IES	9,975	120.0	21.7	PDF	IES
		5000	74.9	8,159	108.9	21.9	PDF	IES	8,374	111.8	22.0	PDF	IES	8,685	116.0	22.1	PDF	IES	8,801	117.5	22.2	PDF	IES	8,957	119.6	22.1	PDF	IES
1500		4000	66.6	7,220	108.4	22.5	PDF	IES	7,408	111.2	22.6	PDF	IES	7,673	115.2	22.7	PDF	IES	7,778	116.8	22.7	PDF	IES	7,911	118.8	22.7	PDF	IES
		3000	59.2	6,283	106.1	23.2	PDF	IES	6,448	108.9	23.3	PDF	IES	6,672	112.7	23.4	PDF	IES	6,765	114.3	23.4	PDF	IES	6,872	116.1	23.4	PDF	IES
1000		2000	51.7	5,360	103.7	23.9	PDF	IES	5,502	106.4	24.0	PDF	IES	5,691	110.1	24.2	PDF	IES	5,770	111.6	24.2	PDF	IES	5,850	113.2	24.2	PDF	IES
		1000	45.4	4,416	97.3	25.1	PDF	IES	4,529	99.8	25.1	PDF	IES	4,686	103.2	25.3	PDF	IES	4,750	104.6	25.3	PDF	IES	4,806	105.9	25.4	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 4Hx8Hx1H and reflectances of 70%/20% have been applied using the procedure described in CIE 190-2010.
3. For Photometry reports and IES files combining Direct/Indirect distributions other than those listed above, please consult Ledalite.

Definition Symmetric Flush Silk lens Spacing Criteria: 1.23/1.22



Candela plot shown is for 3000lm/4ft Direct / 5000lm/4ft Indirect, CRI 90, 3500K configuration.

TruGroove suspended micro (lens)



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