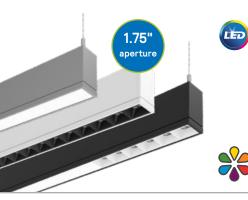


by (S) ignify

## Linear

**TruGroove** 

Suspended micro (lens)



Project:
Location:
Cat.No:
Type:

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

to asymmetric wall wash exceeding the demands of the most challenging spaces.

**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

Line ID:	Qty:
Notes:	

Ordering guide 12

example: TM05L940QRPC230Q5008DS1NCSW, A6-1-24

amily	Version	Distribution Source		CRI/CCT 1, 5, 8, 16									
TruGroove micro	0 Suspended	1 Direct L LE	D	950 CRI 90, 5000K	RI 90, 4000K 935 CRI 90, 3500K								
		3 Indirect 5 Indirect / Direct 6 Direct / Indirect		930 CRI 90, 3000K	927 CRI	90, 2700K	9T2 CRI	90, 2700-6500K 2ch Tun	able White (please	confirm	driver & controls)		
ptics (Direct)	<b>.</b>	o birect/ indirect			Lumens	(Direct) 1, 16	Optics (I	Indirect)	Lumens (Indirect)	1, 16 Run	Length 7		
ens Optic <sup>9, 16</sup>	Louver Cell Optic 8,15	Louver Color Louve	r Length 15	Louver Position 15	NN Nor		N Nor	•	NN None		2ft		
No Lens (must specify louver optic) Performance Symmetric Batwing Flush MesoOptics P Performance Asymmetric Wall Wash Flush MesoOptics Definition Symmetric Flush Silk Definition Symmetric Drop Silk Definition Symmetric Flush Black otes:	N No Louver (must specify 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 K Definition Symmetric Silk Optic	N None N No B Black C 6ii W White 1 1fi P Platinum F Fu G Gold C Copper	one n (3 Cells)	N None 1 One End 2 Both Ends F Full Length	40 4000 35 3500 30 3000 25 2500 20 2000 15 1500 07 700	0 Im/4ft 0 Im/4ft 0 Im/4ft 0 Im/4ft 0 Im/4ft 0 Im/4ft 0 Im/4ft	Q Per		70 7000 lm/4ft	C2 03 C3 04 05 06 08 XX	2.5ft 3ft 3.5ft 4ft 5ft 6ft 8ft Continuous run		
or lens/louver combinations please sele											pended Patterns:		
	with a lens, must select N for lens option.									A4	2ft x 2ft Flat Corn		
Continuous runs available in 6in increme	nts (please specify length).  Driver 3,5	Circuit 2, 10, 11				2 3 6 10 13	l	4 9 14					
/oltage <sup>3</sup>								Controls 4, 9, 14					
UNV 120-277V	E Advance Xitanium 0-10V (1% Dim)	1 Single Circuit			N Nor		NN Nor	ne					
347V		V Single Circuit + 1 Thru W				ery Pack							
UNV 120-277V	D Advance Xitanium DALI (5% Dim)	F Single Circuit + 4 Thru W	/ires (Mains & Dimmin	g)		iliary Wiring							
	H Lutron EcoSystem LDE1 (<1% Dim, Fade-to-Black)	G Dual Circuit (Up/Down)			G GTD	(please specify voltage)							
		W Dual Circuit (Up/Down)	+1 Thru Wire (BP Trigg	(er)									
UNV 120-277V	S Advance Xitanium SR (1% Dim)	1 Single Circuit			N Nor		NN Nor						
		V Single Circuit + 1 Thru W	/ire (BP Trigger)			ery Pack	CS Interact Pro scalable wireless sensor with integral daylight & occupancy sensing, advanced grouping with dwell time.						
					R UL9	24 Sensor Bypass Relay							
								eract Pro Enterprise adv					
	5. Advance Slov Toron CD (40/ Dire)	A Circle Circuit						.500 with IoT capabilitie	s for enterprise sca	le projec	ts.		
O UNV 120-277V	F Advance FlexTune SR (1% Dim)	1 Single Circuit	( (DD T-:)		N Nor	ie	NN Nor			and doub	-1-1-0		
	2 0-10V 2ch (1% Dim)	V Single Circuit + 1 Thru W	rire (BP Trigger)					eract Pro scalable wirel					
	6 DALI-2 DT6 2ch (1% Dim)							upancy sensing, advance					
	8 DALI-2 DT8 2ch (1% Dim)							eract Pro Enterprise adv					
								.500 with IoT capabilitie	s for enterprise sca	le projec	ts.		
Low Voltage (48-54V DC)	P PoE Lighting Controller	1 Single Circuit			N Nor		NN Nor						
					в ватт	ery Pack		eract Office wired senso					
								upancy sensing, enable					
								eract Office advanced w			SC2000		
17	Mount Type	Ceiling Type						h IoT capabilities for en ion Length	terprise scare proje	cts.			
inish <sup>17</sup>			-11					non cengui					
V Standard White	A Aircraft Cable Mount	1 Non-accessible ceiling,		6-1 T-Grid On-Grid Mo			24 24"		144 144"		192"		
Titanium Silver		2 T-Grid, Fixed Position M		6-2 T-Grid On-Grid Mo			<b>48</b> 48"		96 96"	240	240"		
Midnight Black		<ol><li>Non-accessible ceiling,</li></ol>		6-3 T-Grid On-Grid Mo	ount 9/16" x	5/16", (slot tee & tegular tile)							
Graphite Grey		5 T-Grid 24" Span Mount,	(non tegular tile only)										
Dark Walnut Woodgrain	Notes:												
Light Cherry Woodgrain	Aircraft cable suspension length is from ceiling to top of lu												
White Cherry Woodgrain	Standard power cord is white. Black or clear power cords a												
Custom (please specify color)	Standard canopies are white. A1 and A3 canopies can be po	owder coated to match fixtu	re colour on request (*	excludes woodgrain fir	inishes).								

## **Finish options**







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













#### Order guide footnotes

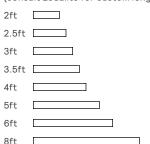
- 1. Nominal values within a range. Not all lumen packages are available with all configurations. Consult photometry data for CRI, color temp, lumens & distribution of chosen configuration.
- 2. Not all wiring types are available with all configurations. Consult Ledalite for a complete list of available 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.

## **Options and dimensions**

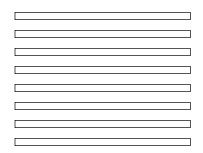
#### Standalone

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.



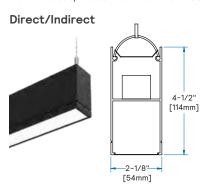
#### **Patterns**

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

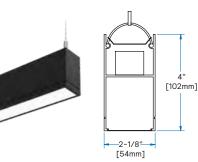


#### Flush lens

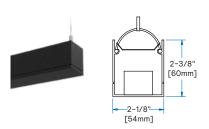
TruGroove suspended micro with 1.75" wide Flush MesoOptics or Silk lens.



Direct

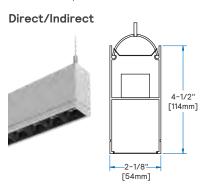


Indirect

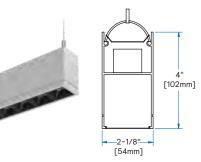


#### Louver

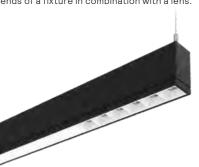
TruGroove suspended micro with Ledalite's unique quad optic louver cells with MesoOptics in 6 distributions.



Direct



Louvers can be ordered at the full fixture length or in 6 in. or 1ft 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.

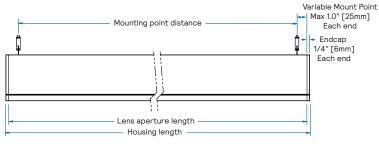




## **Options and dimensions**

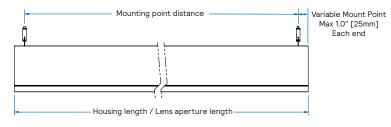
#### **Side Views**

Standalone



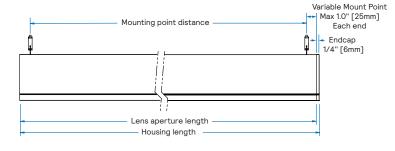
t	Nominal	Housing	Lens <b>Aperture</b>	Mounting <b>Points</b>
	2ft	24.5" [622mm]	24.0" [610mm]	22.0" [559mm] to 23.5" [597mm]
	2.5ft	30.5" [775mm]	30.0" [762mm]	28.0" [711mm] to 29.5" [749mm]
	3ft	36.5" [927mm]	36.0" [914mm]	34.0" [864mm] to 35.5" [902mm]
	3.5ft	42.5" [1080mm]	42.0" [1067mm]	40.0" [1016mm] 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 <b>Aperture</b>	Mounting <b>Points</b>
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]

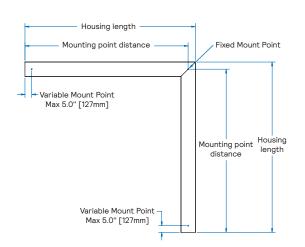
## Continuous Run (End-run)



Nominal	Housing	Lens <b>Aperture</b>	Mounting <b>Points</b>
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 <b>Points</b>
2ft x 2ft	25.1" [636mm]	23.0" [585mm]

Flat corners are  $2ft \times 2ft$  and can be used to create suspended patterns. Flat corners are  $90^{\circ}$ , contact Ledalite for custom angles and intersections.

#### 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).

#### Electrica

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).

 ${\tt Lutron\ EcoSystem\ LDE1,\ 1\%\ Dimming\ with\ Soft-On\ and\ Fade-to-Black.\ Class\ 2\ rated\ output.\ Consult\ Ledalite\ for\ other\ available\ drivers.}$ 

#### **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<sub>a</sub>  $\geq$  90, R<sub>g</sub>  $\geq$  50, G<sub>a</sub>  $\geq$  97, C<sub>g</sub>  $\geq$  90 IES TM-30-18: R<sub>f</sub>  $\geq$  90, R<sub>fhl</sub>  $\geq$  89, R<sub>g</sub>  $\geq$  99, R<sub>cs.hl</sub>  $\geq$  -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  $0-25^{\circ}$ 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.

#### Warrant

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

#### **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**

#### 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.

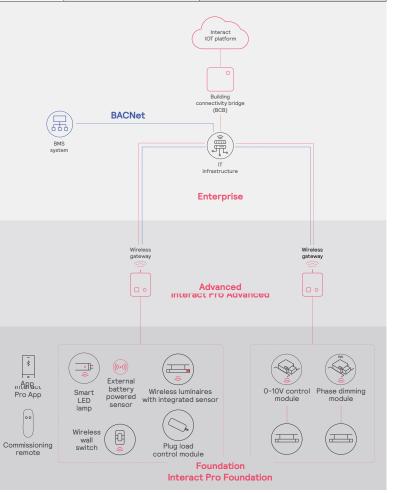
Interact Pro so	calable sensor option o	odes across Genlyte p	roduct lines	
	Evokit	Day-Brite	Ledalite	Lightolier
Zigbee + Bluetooth + Sensing	SWZCS	SWZCS	CS	SBA accessory (external)
Zigbee + Bluetooth	RADIO	RADIO	RA	RA
Zigbee + Bluetooth + Sensing + Environmental data	IAOSB	IAOSB	SB	SB
Zigbee + Highbay + Sensing	-	SWZCSH	-	-

Functionalities overview		Interact Pro scalable	e system
		Financia Na 	
	Foundation	Advanced	Enterprise
Dimming, grouping, and zoning	<b>✓</b>	<b>✓</b>	<b>✓</b>
Bluetooth and ZigBee enabled	<b>✓</b>	<b>✓</b>	<b>✓</b>
Motion sensing and daylight harvesting	<b>✓</b>	<b>✓</b>	<b>~</b>
Integration with 0-10V and phase dimming fixtures	<b>✓</b>	<b>✓</b>	<b>~</b>
Code compliance	<b>✓</b>	<b>✓</b>	<b>~</b>
Granular dimming and dwell time	<b>✓</b>	<b>✓</b>	<b>✓</b>
Correlated color temperature (CCT) tuning by switch	<b>✓</b>	<b>/</b>	<b>✓</b>
Support for sensor-based Tunable White luminaires	<b>✓</b>	<b>✓</b>	<b>✓</b>
Energy reporting and monitoring		<b>/</b>	<b>~</b>
Scheduling		<b>✓</b>	<b>✓</b>
Demand response		<b>✓</b>	<b>✓</b>
BMS integration (BACnet)			<b>✓</b>
Floor plan visualization			<b>✓</b>
IoT sensors for wellness			<b>✓</b>
IoT Apps for productivity			<b>✓</b>

## 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
<ul> <li>luminaires with integrated sensors</li> </ul>	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



## 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
	CRI R <sub>a</sub>	94	93	93	93	93
015 040 0 4005 1	R <sub>9</sub>	55	57	59	64	68
CIE 013.3-1995 <sup>1</sup>	G <sub>a</sub>	99	99	99	99	99
	C <sub>9</sub>	93	93	93	93	94
	R <sub>f</sub>	92	91	91	91	90
IES TM-30-18 <sup>2</sup>	R <sub>p</sub> h <sub>1</sub>	90	90	90	91	89
IES IM-30-18 -	R <sub>g</sub>	100	100	99	100	100
	R <sub>cs</sub> , h <sub>1</sub>	-6%	-5%	-6%	-5%	-5%
MD	ER <sup>3</sup>	0.45	0.51	0.58	0.65	0.81

<sup>1.</sup> 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.

## **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



<sup>2.</sup> 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.

<sup>3.</sup> Melanopic Daylight Efficacy Ratio (MDER) is the measure for "spectral melanopic efficiency" as defined in CIE S 026-2018.

## **Photometry**

Direct (TM01) Performance Symmetric Batwing Flush MesoOptic lens

Nomi	nal CRI &CC	Т		CRI 9	0, 270	OK			CRI	90, 300	ок			CRI	90, 350	оок			CRI	90, 400	OOK			ОК			
	al Lumen e (Im/4ft)	Watts	Flux (Im/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	Photometry Report	IES File	lux (lm/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR®	hotometry Report	IES File	Flux (Im/4ft) <sup>1</sup>	icacy (LPW) 1	UGR®	Photometry Report	IES File	Flux (lm/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR	hotometry Report	IES File	Flux (Im/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR®	Photometry Report	IES File
Direct	Indirect		≖	Eff		•		正	Ett				ᇤ	Effici				ᇤ	Eff		<u> </u>		ᇤ	Ett		<u> </u>	
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

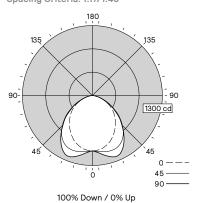
Nomi	nal CRI &CC	т		CRI 9	0, 270	OK			CRI	90, 300	оок			CRI	90, 350	ок			CRI	90, 400	ок		CRI 90, 5000K				
	al Lumen e (Im/4ft)	Watts	k (lm/4ft) ¹	acy (LPW) 1	UGR <sup>5</sup>	Photometry Report	IES File	x (lm/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	hotometry Report	IES File	Flux (Im/4ft) ¹	acy (LPW) 1	UGR	Photometry Report	IES File	k (lm/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	hotometry Report	IES File	x (lm/4ft) ¹	acy (LPW) 1	UGR <sup>5</sup>	Photometry Report	IES File
Direct	Indirect		Flux	Efficacy		£_		Flux	Effic		£_		Flu	Effice		£_		Flux	Effic		£_		Flux	Efficacy		푼_	
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

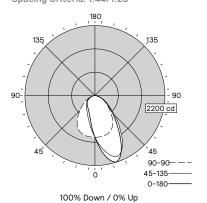
,																											
Nomi	nal CRI &CC	т		CRI 9	0, 270	οκ			CRI	90, 300	оок			CRI	90, 350	ок			CRI 9	90, 400	ок			CRI 9	90, 500	ок	
	al Lumen e (Im/4ft)	Watts	x (Im/4ft) ¹	acy (LPW) 1	UGR <sup>5</sup>	Photometry Report	IES File	x (lm/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	otometry Report	IES File	Flux (Im/4ft) ¹	acy (LPW) 1	UGR <sup>5</sup>	Photometry Report	IES File	x (Im/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	otometry Report	IES File	x (lm/4ft) ¹	acy (LPW) ¹	UGR <sup>5</sup>	Photometry Report	IES File
Direct	Indirect		Flux	Effica		-E		2	Effic		옵		급	Effic		옵		Flux	Effic		옵		Flux	Efficacy		4	
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	22.3	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

<sup>1. 4</sup>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.

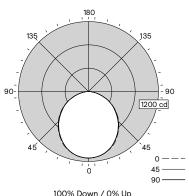
Performance Symmetric Batwing Flush MesoOptic Iens Spacing Criteria: 1.17/1.48



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



Definition Symmetric Flush Silk Iens Spacing Criteria: 1.23/1.22



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

<sup>2.</sup> 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.

## **Photometry**

Indirect (TM03) Performance Symmetric lens

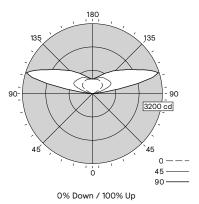
Nomi	nal CRI &CC	T		CRI 9	0, 270	ОК			CRIS	90, 30	оок			CRI	90, 35	оок			CRI	90, 400	ок			CRIS	90, 500	ок	
	al Lumen e (Im/4ft)	Watts	c (lm/4ft) ¹	acy (LPW) ¹	UGR <sup>5</sup>	Photometry Report	IES File	c (Im/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	notometry Report	IES File	c (Im/4ft) ¹	acy (LPW) ¹	UGR	Photometry Report	IES File	c (Im/4ft) ¹	acy (LPW) ¹	UGR <sup>5</sup>	Photometry Report	IES File	c (Im/4ft) ¹	acy (LPW) ¹	UGR <sup>5</sup>	Photometry Report	IES File
Direct	Indirect		Flux	Effica		A.		Flux	Effic		A.		Flux	Effica		Ä.		Flux	Efficacy		품		Flux	Efficacy		품	_
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

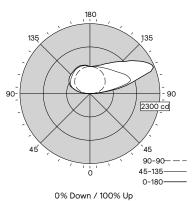
Nomi	nal CRI &CC	т		CRI 9	0, 270	0K			CRI	90, 300	оок			CRI	90, 350	оок			CRI	90, 400	OOK			CRI	90, 500	оок	
	al Lumen e (Im/4ft)	Watts	c(Im/4ft)¹	acy (LPW) ¹	UGR <sup>5</sup>	Photometry Report	IES File	x (lm/4ft) ¹	acy (LPW) ¹	UGR <sup>5</sup>	otometry Report	IES File	Flux (Im/4ft) ¹	acy (LPW) ¹	UGR <sup>5</sup>	Photometry Report	IES File	c (Im/4ft) ¹	acy (LPW) ¹	UGR <sup>5</sup>	otometry Report	IES File	x (lm/4ft) ¹	acy (LPW) ¹	UGR <sup>6</sup>	Photometry Report	IES File
Direct	Indirect		Flux	Effica		Ph		Ē	Efficacy		Phe		Flu	Effic		Å		Flux	Efficacy		Å.	_	Flu	Effic		Å	_
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

<sup>1. 4</sup>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.

#### Performance Symmetric lens



#### Performance Asymmetric lens



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

<sup>2.</sup> 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.

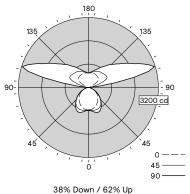
## **Photometry**

Direct/Indirect (TM05 & TM06) Performance Symmetric Batwing Flush MesoOptic lens

Nomi	nal CRI &CC	СТ		CRI 9	0, 270	ОК			CRI	90, 300	ООК			CRI	90, 350	ООК			CRI	90, 400	ООК			CRI	90, 500	ОК	
	al Lumen e (lm/4ft) Indirect	Watts	Flux (lm/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) <sup>1</sup>	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) <sup>1</sup>	Efficacy (LPW) <sup>1</sup>	UGR	Photometry Report	IES File	Flux (Im/4ft) <sup>1</sup>	Efficacy (LPW) <sup>1</sup>	UGR	Photometry Report	IES File	Flux (Im/4ft) <sup>1</sup>	Efficacy (LPW) <sup>1</sup>	UGR	Photometry Report	IES File
4000	7000 6000 5000 4000 3000 2000 1000	98.7 88.9 80.8 72.4 65.0 57.6 51.2	10,291 9,365 8,452 7,513 6,576 5,653 4,709	104.3 105.3 104.6 103.8 101.2 98.1 92.0	20.0 20.4 20.8 21.4 22.0 22.9 24.0	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,573 9,623 8,681 7,716 6,755 5,810 4,837	107.1 108.2 107.4 106.6 103.9 100.9 94.5	20.1 20.5 20.9 21.5 22.1 22.9 24.1	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,999 9,992 9,000 7,987 6,987 6,006 5,000	111.4 112.4 111.4 110.3 107.5 104.3 97.7	20.1 20.6 21.0 21.6 22.3 23.1 24.2	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	11,127 10,117 9,118 8,095 7,081 6,087 5,067	112.7 113.8 112.8 111.8 108.9 105.7 99.0	20.2 20.6 21.1 21.7 22.3 23.1 24.2	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	11,328 10,298 9,280 8,235 7,195 6,174 5,130	114.8 115.8 114.9 113.7 110.7 107.2 100.2	20.2 20.7 21.1 21.7 22.4 23.1 24.2	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
3500	7000 6000 5000 4000 3000 2000 1000	92.9 83.1 74.9 66.6 59.2 51.7 45.4	9,826 8,900 7,987 7,048 6,111 5,188 4,244	105.8 107.1 106.6 105.8 103.2 100.3 93.5	19.1 19.6 20.1 20.7 21.4 22.1 23.3	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES		108.6 110.0 109.4 108.6 105.9 103.0 95.9	19.2 19.7 20.1 20.7 21.4 22.2 23.4	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,502 9,495 8,502 7,490 6,489 5,508 4,503	113.0 114.3 113.5 112.5 109.6 106.5 99.2	19.4 19.8 20.2 20.9 21.6 22.4 23.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,625 9,615 8,616 7,593 6,580 5,585 4,565	114.4 115.7 115.0 114.0 111.1 108.0 100.6	19.4 19.8 20.3 20.8 21.5 22.4 23.6	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,818 9,788 8,770 7,725 6,685 5,663 4,619	116.4 117.8 117.1 116.0 112.9 109.5 101.7	19.4 19.8 20.3 20.9 21.6 22.4 23.6	PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
3000	7000 6000 5000 4000 3000 2000 1000	87.2 77.4 69.3 61.0 53.8 46.3 40.1	9,364 8,438 7,525 6,586 5,649 4,727 3,782	107.4 109.0 108.6 108.0 105.0 102.1 94.3	18.2 18.6 19.1 19.8 20.4 21.3 22.6	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,611 8,661 7,719 6,754 5,793 4,848 3,875	110.2 111.9 111.4 110.7 107.7 104.7 96.6	18.3 18.7 19.2 19.8 20.5 21.4 22.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,010 9,003 8,011 6,998 5,997 5,017 4,011	114.8 116.3 115.6 114.7 111.5 108.4 100.0	18.4 18.8 19.3 20.0 20.6 21.5 22.8	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,128 9,118 8,119 7,096 6,083 5,088 4,068	116.1 117.8 117.2 116.3 113.1 109.9 101.4	18.4 18.9 19.4 20.0 20.7 21.6 22.9	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,314 9,283 8,265 7,220 6,180 5,159 4,115	118.3 119.9 119.3 118.4 114.9 111.4 102.6	18.4 18.8 19.3 20.0 20.7 21.6 22.8	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
2500	7000 6000 5000 4000 3000 2000 1000	81.8 72.0 63.9 55.8 48.6 41.1 34.9	8,891 7,964 7,051 6,112 5,176 4,253 3,309	108.7 110.6 110.3 109.5 106.5 103.5 94.8	17.0 17.5 18.0 18.6 19.4 20.3 21.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,124 8,174 7,233 6,267 5,307 4,361 3,388	111.5 113.5 113.2 112.3 109.2 106.1 97.1	17.1 17.5 18.1 18.7 19.4 20.3 21.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,507 8,500 7,508 6,495 5,495 4,514 3,508	116.2 118.1 117.5 116.4 113.1 109.8 100.5	17.2 17.6 18.2 18.8 19.6 20.5 21.9	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,619 8,609 7,610 6,587 5,573 4,579 3,559	117.6 119.6 119.1 118.0 114.7 111.4 102.0	17.3 17.7 18.3 18.9 19.6 20.6 21.9	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,799 8,768 7,750 6,705 5,665 4,644 3,600	119.8 121.8 121.3 120.2 116.6 113.0 103.2	17.2 17.6 18.2 18.8 19.6 20.5 22.0	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
2000	7000 6000 5000 4000 3000 2000 1000	76.2 66.4 58.3 49.9 42.7 35.5 29.1	8,424 7,498 6,585 5,646 4,709 3,786 2,842	110.6 112.9 113.0 113.1 110.3 106.6 97.7	15.6 16.1 16.6 17.2 18.0 19.0 20.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,646 7,696 6,755 5,789 4,829 3,884 2,911	113.5 115.9 115.9 116.0 113.1 109.4 100.0	15.6 16.1 16.6 17.3 18.1 19.1 20.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,013 8,006 7,013 6,001 5,000 4,019 3,013	118.3 120.6 120.3 120.3 117.1 113.2 103.5	15.7 16.2 16.8 17.4 18.2 19.2 20.7	PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,117 8,107 7,108 6,085 5,072 4,077 3,057	119.6 122.1 121.9 121.9 118.8 114.8 105.1	15.8 16.3 16.8 17.5 18.2 19.3 20.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,292 8,261 7,243 6,198 5,159 4,137 3,093	121.9 124.4 124.2 124.2 120.8 116.5 106.3	15.7 16.2 16.8 17.4 18.3 19.2 20.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
1500	7000 6000 5000 4000 3000 2000	71.3 61.5 53.4 45.3 38.1 30.7 24.3	7,948 7,022 6,109 5,170 4,233 3,310 2,366	111.5 114.2 114.4 114.1 111.1 107.8 97.4	13.7 14.2 14.7 15.4 16.2 17.3 18.9	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,162 7,211 6,270 5,304 4,344 3,399 2,426	114.5 117.3 117.4 117.1 114.0 110.7 99.8	13.7 14.2 14.8 15.4 16.3 17.4 19.0	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,509 7,502 6,509 5,497 4,496 3,515 2,510	119.3 122.0 121.9 121.3 118.0 114.5 103.3	13.8 14.3 14.9 15.6 16.4 17.6 19.2	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,606 7,597 6,597 5,574 4,561 3,567 2,546	120.7 123.5 123.5 123.0 119.7 116.2 104.8	13.9 14.3 15.0 15.6 16.5 17.5 19.1	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,777 7,746 6,728 5,683 4,643 3,622 2,578	123.1 126.0 126.0 125.5 121.9 118.0 106.1	13.9 14.4 14.9 15.6 16.4 17.6 19.2	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
1000	7000 6000 5000 4000 3000 2000 1000	66.4 56.7 48.5 40.6 33.4 25.9 19.6	7,465 6,539 5,626 4,687 3,750 2,827 1,883		10.9 11.4 12.0 12.7 13.6 14.7 16.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES		115.5 118.5 119.1 118.5 115.3 112.2 98.6	11.0 11.4 12.0 12.7 13.6 14.7 16.6	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	3,004 1,998	101.9	11.1 11.6 12.1 12.9 13.8 14.9 16.8	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,088 7,078 6,079 5,056 4,043 3,048 2,028			PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,254 7,223 6,205 5,160 4,121 3,099 2,055		11.0 11.6 12.1 12.9 13.7 14.9 16.8	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES

<sup>1. 4</sup>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.

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



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

<sup>2.</sup> 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.

 $<sup>3.</sup> For Photometry \, reports \, and \, IES \, files \, combining \, Direct/Indirect \, distributions \, other \, than \, those \, listed \, above, \, please \, consult \, Ledalite.$ 

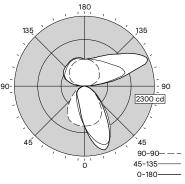
## **Photometry**

Direct/Indirect (TM05 & TM06) Performance Asymmetric Wall Wash Flush MesoOptic lens

Nomi	nal CRI &CC	т		CRI 9	90, 270	ОК			CRI	90, 300	оок			CRI	90, 350	оок			CRI	90, 400	OOK			CRI	90, 500	ОК	
	al Lumen e (lm/4ft) Indirect	Watts	Flux (Im/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) 1	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) ¹	Efficacy (LPW) 1	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) ¹	Efficacy (LPW) 1	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) 1	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	Photometry Report	IES File
4000	6000 5000 4000 3000 2000 1000	100.4 88.7 78.8 69.3 60.2 52.3	9,243 8,321 7,394 6,465 5,528 4,580	92.1 93.8 93.8 93.3 91.8 87.6	19.7 20.2 20.8 21.4 22.2 23.3	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,494 8,550 7,594 6,639 5,680 4,705	94.6 96.4 96.4 95.8 94.4 90.0	19.7 20.3 20.7 21.5 22.3 23.4	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,878 8,877 7,869 6,871 5,873 4,865	98.4 100.1 99.9 99.1 97.6 93.0	19.9 20.4 20.9 21.6 22.5 23.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,990 8,987 7,972 6,962 5,951 4,928	99.5 101.3 101.2 100.5 98.9 94.2	19.9 20.4 20.9 21.6 22.5 23.5	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	10,169 9,144 8,110 7,077 6,039 4,990	101.3 103.1 102.9 102.1 100.3 95.4	20.0 20.4 21.0 21.6 22.4 23.6	PDF PDF PDF PDF PDF	IES IES IES IES IES IES
3500	6000 5000 4000 3000 2000 1000	94.5 82.9 72.9 63.4 54.3 46.5	8,792 7,871 6,943 6,014 5,078 4,130	93.0 94.9 95.2 94.9 93.5 88.8	18.9 19.4 19.9 20.6 21.4 22.6	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,025 8,081 7,125 6,171 5,211 4,236	95.5 97.5 97.7 97.3 96.0 91.1	18.9 19.5 20.0 20.7 21.5 22.7	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,396 8,395 7,387 6,389 5,392 4,383	99.4 101.3 101.3 100.8 99.3 94.3	19.1 19.5 20.1 20.8 21.7 22.9	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,504 8,501 7,486 6,476 5,466 4,442	100.6 102.5 102.7 102.1 100.7 95.5	19.1 19.5 20.2 20.9 21.7 22.9	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,675 8,650 7,616 6,583 5,545 4,496	102.4 104.3 104.5 103.8 102.1 96.7	19.1 19.6 20.2 20.8 21.8 22.9	PDF PDF PDF PDF PDF	IES IES IES IES IES IES
3000	6000 5000 4000 3000 2000 1000	88.9 77.2 67.3 58.0 48.8 41.1	8,345 7,424 6,496 5,567 4,631 3,682	93.9 96.2 96.5 96.0 94.9 89.6	17.9 18.5 19.0 19.8 20.6 21.9	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,562 7,618 6,662 5,708 4,748 3,773	96.3 98.7 99.0 98.4 97.3 91.8	18.0 18.5 19.1 19.8 20.7 22.0	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,920 7,919 6,911 5,913 4,915 3,906	100.3 102.6 102.7 101.9 100.7 95.0	18.1 18.6 19.2 20.0 20.8 22.1	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,023 8,019 7,004 5,995 4,984 3,961	101.5 103.9 104.1 103.4 102.1 96.4	18.1 18.6 19.3 19.9 20.9 22.2	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES	9,186 8,161 7,127 6,094 5,056 4,007	103.3 105.7 105.9 105.1 103.6 97.5	18.1 18.6 19.2 20.0 20.9 22.2	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES
2500	6000 5000 4000 3000 2000 1000	83.5 71.8 61.9 52.8 43.6 35.9	7,887 6,965 6,038 5,109 4,172 3,224	94.5 97.0 97.5 96.8 95.7 89.8	16.8 17.2 17.8 18.7 19.7 21.0	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,091 7,146 6,190 5,236 4,277 3,302	96.9 99.5 100.0 99.2 98.1 92.0	16.8 17.3 17.9 18.8 19.6 21.1	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,433 7,431 6,424 5,426 4,428 3,419	101.0 103.5 103.8 102.8 101.6 95.2	16.9 17.5 18.1 18.9 19.9 21.2	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,529 7,526 6,511 5,502 4,491 3,467	102.1 104.8 105.2 104.2 103.0 96.6	16.9 17.5 18.1 18.9 19.8 21.2	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,687 7,662 6,628 5,595 4,557 3,508	104.0 106.7 107.1 106.0 104.5 97.7	16.9 17.5 18.1 18.9 19.9 21.3	PDF PDF PDF PDF PDF	IES IES IES IES IES IES
2000	6000 5000 4000 3000 2000 1000	77.9 66.2 56.3 46.9 38.0 30.3	7,434 6,513 5,585 4,656 3,720 2,772	95.4 98.4 99.2 99.3 97.9 91.5	15.4 15.8 16.5 17.2 18.4 19.8	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	7,628 6,684 5,728 4,774 3,814 2,839	97.9 101.0 101.7 101.8 100.4 93.7	15.4 15.9 16.6 17.3 18.4 19.9	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	7,954 6,952 5,945 4,946 3,949 2,940	102.1 105.0 105.6 105.5 103.9 97.0	15.5 16.0 16.7 17.5 18.6 20.0	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,044 7,040 6,025 5,016 4,005 2,982	103.3 106.3 107.0 107.0 105.4 98.4	15.5 16.1 16.7 17.5 18.5 20.1	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES	8,196 7,171 6,137 5,104 4,066 3,018	105.2 108.3 109.0 108.8 107.0 99.6	15.5 16.0 16.7 17.6 18.6 20.1	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES
1500	5000 5000 4000 3000 2000 1000	73.0 61.3 51.4 42.2 33.2 25.4	6,974 6,052 5,124 4,195 3,259 2,311	95.5 98.7 99.7 99.4 98.2 91.0	13.4 14.0 14.7 15.5 16.6 18.2	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	7,159 6,214 5,258 4,304 3,344 2,369	98.1 101.4 102.3 102.0 100.7 93.3	13.4 14.0 14.7 15.6 16.6 18.3	PDF PDF PDF PDF PDF	IES IES IES IES IES IES	7,466 6,464 5,457 4,459 3,461 2,452	102.3 105.4 106.2 105.7 104.2 96.5	13.6 14.2 14.9 15.7 16.8 18.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES	7,549 6,545 5,530 4,521 3,510 2,487	103.4 106.8 107.6 107.1 105.7 97.9	13.6 14.1 14.8 15.7 16.8 18.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES	7,697 6,672 5,638 4,605 3,567 2,519	105.4 108.8 109.7 109.1 107.4 99.2	13.6 14.2 14.8 15.7 16.8 18.5	PDF PDF PDF PDF PDF	IES IES IES IES IES
1000	6000 5000 4000 3000 2000 1000	68.1 56.4 46.6 37.6 28.4 20.7	6,506 5,584 4,657 3,728 2,791 1,843	95.5 99.0 99.9 99.1 98.3 89.0	10.6 11.2 11.9 12.8 14.0 15.8	PDF PDF PDF PDF PDF	IES IES IES IES IES	6,681 5,737 4,781 3,827 2,867 1,892	98.1 101.7 102.6 101.8 101.0 91.4	10.7 11.3 11.9 12.9 14.1 15.9	PDF PDF PDF PDF PDF	IES IES IES IES IES	6,970 5,969 4,961 3,963 2,965 1,957	102.3 105.8 106.5 105.4 104.4 94.5	10.8 11.4 12.2 13.0 14.2 16.0	PDF PDF PDF PDF PDF	IES IES IES IES IES	7,047 6,043 5,028 4,019 3,008 1,985	103.5 107.1 107.9 106.9 105.9 95.9	10.8 11.5 12.1 13.0 14.2 16.1	PDF PDF PDF PDF PDF	IES IES IES IES IES	7,191 6,166 5,132 4,099 3,061 2,012	105.6 109.3 110.1 109.0 107.8 97.2	10.9 11.4 12.1 13.0 14.2 16.1	PDF PDF PDF PDF PDF	IES IES IES IES IES IES

<sup>1. 4</sup>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.

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



37% Down / 63% Up

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

 $<sup>2. \</sup> Unified \ Glare \ Ratio (UGR) \ is calculated in accordance with CIE 117-1995. \ Reference \ conditions of \ 4Hx8Hx1H \ and \ reflectances \ of \ 70/50/20\% \ have been applied using the procedure \ described in CIE 190-2010.$ 

<sup>3.</sup> For Photometry reports and IES files combining Direct/Indirect distributions other than those listed above, please consult Ledalite

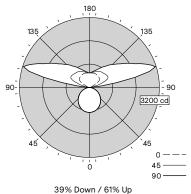
## **Photometry**

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

Nomi	nal CRI &CC	СТ		CRI 9	90, 270	0K			CRI	90, 300	оок			CRI	90, 350	ООК			CRI	90, 400	OOK			CRI	90, 500	ОК	
	al Lumen e (Im/4ft) Indirect	Watts	Flux (lm/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) 1	Efficacy (LPW) <sup>1</sup>	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) 1	Efficacy (LPW) 1	UGR <sup>5</sup>	Photometry Report	IES File	Flux (Im/4ft) ¹	Efficacy (LPW) <sup>1</sup>	UGR	Photometry Report	IES File	Flux (Im/4ft) 1	Efficacy (LPW) 1	UGR	Photometry Report	IES File
4000	7000 6000 5000 4000 3000 2000 1000	98.7 88.9 80.8 72.4 65.0 57.6 51.2	10,487 9,561 8,648 7,709 6,772 5,850 4,906	106.3 107.5 107.0 106.5 104.2 101.6 95.8	21.9 22.2 22.7 23.3 23.8 24.6 25.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,774 9,824 8,883 7,917 6,957 6,012 5,039	109.2 110.5 109.9 109.4 107.0 104.4 98.4	22.0 22.3 22.8 23.4 23.9 24.7 25.8	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	11,208 10,201 9,209 8,196 7,196 6,215 5,209	113.6 114.7 114.0 113.2 110.7 107.9 101.7	22.0 22.5 22.9 23.5 24.1 24.8 25.9	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	11,338 10,328 9,329 8,306 7,293 6,298 5,278	114.9 116.2 115.5 114.7 112.2 109.3 103.1	22.0 22.5 23.0 23.5 24.1 24.9 26.0	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,511 9,494 8,448 7,409 6,387	116.9 118.2 117.5 116.7 114.0 110.9 104.4	22.1 22.5 22.9 23.5 24.2 24.9 26.0	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
3500	7000 6000 5000 4000 3000 2000 1000	92.9 83.1 74.9 66.6 59.2 51.7 45.4	9,998 9,072 8,159 7,220 6,283 5,360 4,416	107.6 109.2 108.9 108.4 106.1 103.7 97.3	21.0 21.5 21.9 22.5 23.2 23.9 25.1	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,265 9,315 8,374 7,408 6,448 5,502 4,529	110.5 112.1 111.8 111.2 108.9 106.4 99.8	21.1 21.6 22.0 22.6 23.3 24.0 25.1	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,685 9,678 8,685 7,673 6,672 5,691 4,686	115.0 116.5 116.0 115.2 112.7 110.1 103.2	21.2 21.6 22.1 22.7 23.4 24.2 25.3	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,810 9,800 8,801 7,778 6,765 5,770 4,750	116.4 117.9 117.5 116.8 114.3 111.6 104.6	21.3 21.6 22.2 22.7 23.4 24.2 25.3	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	11,005 9,975 8,957 7,911 6,872 5,850 4,806	118.5 120.0 119.6 118.8 116.1 113.2 105.9	21.2 21.7 22.1 22.7 23.4 24.2 25.4	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
3000	7000 6000 5000 4000 3000 2000 1000	87.2 77.4 69.3 61.0 53.8 46.3 40.1	9,512 8,586 7,673 6,734 5,797 4,875 3,931	109.1 110.9 110.7 110.4 107.8 105.3 98.0	20.0 20.5 21.0 21.6 22.3 23.1 24.4	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	,	111.9 113.9 113.6 113.2 110.5 108.0 100.4	20.1 20.6 21.1 21.6 22.3 23.2 24.4	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,167 9,160 8,168 7,155 6,155 5,174 4,168	116.6 118.3 117.9 117.3 114.4 111.7	20.3 20.7 21.2 21.7 22.5 23.3 24.6	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,287 9,277 8,278 7,255 6,242 5,247 4,227	118.0 119.9 119.5 118.9 116.0 113.3 105.4	20.3 20.7 21.2 21.8 22.5 23.4 24.6	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	10,474 9,444 8,426 7,381 6,341 5,320 4,276	120.1 122.0 121.6 121.0 117.9 114.9 106.6	20.3 20.7 21.2 21.8 22.5 23.4 24.6	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
2500	7000 6000 5000 4000 3000 2000 1000	81.8 72.0 63.9 55.8 48.6 41.1 34.9	9,014 8,088 7,175 6,236 5,299 4,376 3,432	110.2 112.3 112.3 111.8 109.0 106.5 98.3	18.9 19.4 19.8 20.5 21.2 22.1 23.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,250 8,300 7,358 6,393 5,432 4,487 3,514	113.1 115.3 115.1 114.6 111.8 109.2 100.7	18.9 19.4 19.9 20.5 21.3 22.2 23.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,638 8,631 7,639 6,626 5,626 4,645 3,639	117.8 119.9 119.5 118.7 115.8 113.0 104.3	19.1 19.5 20.1 20.7 21.4 22.3 23.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,751 8,741 7,742 6,719 5,706 4,711 3,691	119.2 121.4 121.2 120.4 117.4 114.6 105.8	19.1 19.5 20.1 20.7 21.5 22.4 23.6	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES IES	9,932 8,901 7,884 6,838 5,799 4,777 3,733	121.4 123.6 123.4 122.5 119.3 116.2 107.0	19.1 19.6 20.1 20.7 21.4 22.3 23.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
2000	7000 6000 5000 4000 3000 2000 1000	76.2 66.4 58.3 49.9 42.7 35.5 29.1	8,523 7,596 6,683 5,744 4,808 3,885 2,941	111.9 114.4 114.6 115.1 112.6 109.4 101.1	17.4 17.9 18.5 19.1 19.9 20.8 22.3	PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,747 7,797 6,856 5,890 4,930 3,984 3,012	114.8 117.4 117.6 118.0 115.5 112.2 103.5	17.5 17.9 18.5 19.2 19.9 20.9 22.3	PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,118 8,111 7,118 6,106 5,105 4,124 3,119	119.7 122.2 122.1 122.4 119.6 116.2 107.2	17.7 18.1 18.6 19.3 20.1 21.0 22.6	PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,223 8,213 7,214 6,191 5,178 4,183 3,163	121.0 123.7 123.7 124.1 121.3 117.8 108.7	17.7 18.1 18.7 19.3 20.1 21.1 22.5	PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	9,399 8,368 7,351 6,305 5,266 4,244 3,200	123.3 126.0 126.1 126.4 123.3 119.5 110.0	17.7 18.2 18.6 19.3 20.1 21.1 22.5	PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
1500	7000 6000 5000 4000 3000 2000	71.3 61.5 53.4 45.3 38.1 30.7 24.3	8,022 7,096 6,183 5,244 4,307 3,384 2,440	112.5 115.4 115.8 115.8 113.0 110.2	15.5 16.0 16.6 17.3 18.1 19.1 20.7	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,237 7,287 6,346 5,380 4,420 3,474 2,501	115.5 118.5 118.8 118.8 116.0 113.2 102.9	15.6 16.1 16.6 17.3 18.2 19.2 20.8	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,588 7,581 6,588 5,576 4,575 3,594 2,588	120.4 123.3 123.4 123.1 120.1 117.1 106.5	15.8 16.2 16.8 17.5 18.3 19.3 20.9	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,686 7,676 6,677 5,654 4,640 3,646 2,626	121.8 124.8 125.0 124.8 121.8 118.8 108.1	15.8 16.3 16.8 17.5 18.3 19.4 21.0	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,857 7,826 6,808 5,763 4,724 3,702 2,658	124.2 127.3 127.5 127.2 124.0 120.6 109.4	15.8 16.3 16.8 17.5 18.3 19.3 21.0	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES
1000	7000 6000 5000 4000 3000 2000 1000	66.4 56.7 48.5 40.6 33.4 25.9 19.6	7,514 6,588 5,675 4,736 3,799 2,876 1,932	113.2 116.2 117.0 116.7 113.7 111.0 98.6	12.8 13.3 13.8 14.5 15.4 16.6 18.4	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES			12.8 13.3 13.9 14.6 15.4 16.7 18.5	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	2,050		12.9 13.5 14.1 14.7 15.7 16.8 18.6	PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	3,100 2,080			PDF PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES	8,307 7,276 6,258 5,213 4,173 3,152 2,108		13.0 13.5 14.1 14.7 15.7 16.8 18.6	PDF PDF PDF PDF PDF PDF	IES IES IES IES IES IES IES

<sup>1. 4</sup>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.

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.

<sup>2.</sup> 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.

 $<sup>3.</sup> For Photometry \, reports \, and \, IES \, files \, combining \, Direct/Indirect \, distributions \, other \, than \, those \, listed \, above, \, please \, consult \, Ledalite.$ 



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