

# HIT

## Cleanroom LED Recessed Luminaire

### Static White LEDs



### A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is part of an A+ Certified solution for nLight® control networks marked by a shaded background\*

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

\*See ordering tree for details

Catalog Number

Notes

Type

#### Intended Use

Recessed LED troffer for general illumination of Cleanroom ISO3-9 (FS209E Class 1 - 100,000) environment. Typical applications include healthcare, pharmaceuticals, electronic manufacturing, food processing, and other demanding/contamination-controlled environments.

**Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.** [Click here for Acrylic-Polycarbonate Compatibility table for suitable uses.](#)

**Certain airborne contaminants may adversely affect the functioning of LEDs and other electronic components, depending on various factors such as concentrations of the contaminants, ventilation, and temperature at the end-user location.** [Click here for a list of substances that may not be suitable for interaction with LEDs and other electronic components.](#)

#### Construction

Housing is made from 20 gauge cold rolled steel with welded seams; one piece construction.

Inset door frame fits flush with ceiling for grid or flange applications. Overlapping flange hides ceiling and cut out imperfections. Available with 304 stainless steel or 16 gauge painted aluminum door frames. Choice of solid silicone gasket design or EPDM non silicone gasket. Door frame is available in either zinc coated or SS material with safety cable included.

All cold rolled steel and aluminum parts are finished with electrostatically deposited, super durable TGIC thermoset powder coat hi-gloss white finish which provides a 1500 hour salt fog rating per ATSM B117 (DWHXD) or optional polyester TGIC Anti-Microbial low gloss white finish (DWAM).

#### Optics

Both sides of lens are smooth to allow easy wiping of the surface. 1/8" thick frosted acrylic lens is standard. Optional 1/8" thick clear polycarbonate lens is also available.

#### Electrical

Thermally protected, resetting, Class P, UL listed, CSA certified driver is standard. 0-10V dimming to 1%. Surge protection designed to withstand up to 10kV/5kA per ANSI C82.77-5-2015. Long-life LEDs provide extended service life. Lumen maintenance of L90>50,000 hours.

#### Installation

Lay-in (T-bar) grid with a range from 1" to 2" heights. In-ceiling sheet rock installation using swing arms with flange trim to cover opening. Swing arms are not intended to secure the fixture without additional support. Surface mount kit is available for installation in hard ceiling surface applications. Two 7/8" supply wiring entrance openings.

#### Listings

CSA certified to meet U.S. and Canadian standards (UL1598 and UL8750). NOM Certified. IC rated. [Click here for restrictions.](#) AFL lens is IK10 rated. Wet location listed. IP65 and IP66 rated. Suitable for Bio Levels 1, 2, 3, & 4. USP 797 & USP 800 listed. For use in ambient temperatures ranging from -40°C (-40°F) to 40°C (104°F) [Click here for restrictions.](#)

#### Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.



A+ Capable options indicated by this color background.

## ORDERING INFORMATION

**Example:** HIT 2X4 G 15000LM IAW AFL MD MVOLT GZ1 40K 80CRI DWAM

Series	Size	Trim type	Nominal Lumens	Door frame
HIT Recessed cleanroom troffer wide	1X4 1 foot wide by 4 feet long ‡	G Grid (9/16" - 1 1/2" W x 2" H)	Static White LEDs ‡	IAW Inset aluminum, white ‡
	2X2 2 feet wide by 2 feet long	F Flange	1X4 2X2 2X4	IAN Inset aluminum, silver
	2X4 2 feet wide by 4 feet long	SMK Surface/Suspension Mount ‡	3000LM 3000LM 3000LM	IBSN Inset brushed stainless steel
			5000LM 5000LM 5000LM	OAW Overlapping aluminum, white ‡
			7000LM 7000LM 7000LM	OAN Overlapping aluminum, silver
			10000LM 10000LM 10000LM	OBSN Overlapping brushed stainless steel
			12000LM 12000LM 12000LM	
			15000LM 15000LM	
			18000LM 18000LM	
			24000LM	
			30000LM	

Lens	Distribution	Voltage	Driver	Color temperature	Color rendering index
AFL 1/8" Acrylic, frosted	MD Medium	MVOLT 120-277V	GZ1 0-10V dimming	30K 3000 K	80CRI 80 CRI
PCL125 1/8" Polycarbonate, clear ‡	ND Narrow ‡	120 120V		35K 3500 K	90CRI 90 CRI
		208 208V		40K 4000 K	
		240 240V		50K 5000 K	
		277 277V			
		347 347V ‡			

Options	Finish
<b>Cordsets: ‡</b> CNPW Cord, no plug, 18 gauge, 3 conductors, white, wet or damp locations, 6 feet CNP4CW Cord, no plug, 18 gauge, 4 conductors for use with EM battery, white, wet or damp locations, 6 feet ‡ CNP5CW Cord, no plug, 18 gauge, 5 conductors for use with ER controls or ETS device with 2 power sources, white, wet or damp locations, 6 feet ‡ CNP5CDW Cord, no plug, 18 gauge, 5 conductors for 0-10V dimming, white, wet or damp locations, 6 feet ‡ CPTLWWL Cord with NEMA twist lock 15 amp plug, white, wet location, 6 feet (120-277V) CPSBW Cord with NEMA straight blade 15 amp plug, white, damp location, 6 feet (120/277V) CMCMBH16YWL Cord with brad mini change male connector, 3 pole, 16 gauge, yellow, non-metallic coupling nut, wet location, 6 feet (120-347V) MCRMBH16WL Receptacle (no cord) with brad mini change male connector, 3 pole, 16 gauge leads, SS coupling nut, wet location, (120-347V) <a href="#">Click here for additional cordset options</a> <b>Emergency:</b> ETS Automatic load control relay device (ALCR) for UL924 operation when using auxiliary generator or central inverter ‡ IE10WCPHE 10 watt internal constant power emergency driver, self-diagnostic test switch/pilot light, 0°C min, UL924 Compliant, Certified in CA Title 20 MAEDBS ‡	<b>Sensor Switch Embedded Controls: ‡</b> SBG10 360° large motion (15-45 mounting heights), on/off occupancy <a href="#">Click here for additional sensor options</a> <b>nLight Air Embedded Controls:</b> NLTAIR2 APIR nLight® Air Generation 2 enabled 360° high mount sensor, (8-15' mounting heights) ‡ NLTAIREM2 APIR nLight® Air Generation 2 enabled 360° low mount sensor, (8-15' mounting heights), UL924 emergency operation with a 3 conductor power input NLTAIRER2 APIR nLight® Air Generation 2 enabled 360° low mount sensor, (8-15' mounting heights), UL924 emergency operation using the IOTA® ETS DR with a 5 conductor power input NLTAIR2 nLight® Air Generation 2 fixture embedded network interface, 0-10V dimming output ‡ NLTAIREM2 nLight® Air Generation 2 fixture embedded network interface, UL924 emergency operation with a 3 conductor power input NLTAIRER2 nLight® Air Generation 2 enabled fixture embedded network interface, UL924 emergency operation using the IOTA® ETS DR with a 5 conductor power input <a href="#">Click here for additional control options</a> <b>Bluetooth® Embedded Controls: ‡</b> SBG10 OCC BTP 360° Low Mount Sensor, (7-15' mounting heights), on/off occupancy, utilizes smart hub for Bluetooth® programmability ‡ <a href="#">Click here for additional sensor options</a> <b>Other Options:</b> 2470P 24/7 operation with EM battery and plug ‡ AO Adjustable output (fixed dimming) ‡ NSG Non silicone gasket (EPDM) ‡ RRL_ RELOC® ready luminaire ‡ SLDM Step level dimming module (100%, 50%, OFF) TPS Tamper resistant screws (Torx T-15)
	DWAM Antimicrobial, white DWHXD Super durable, white

Option Value Ordering Restrictions & Notes

Option Value	Restriction or Notes
1X4	Not available with ND distribution.
347	Not available with IE10WCPHE battery or ETS relay.
2470P	Available with IE10WCPHE only and a 3 conductor cordset or 3 pin RRL connector. The driver and EM battery power inputs will be tied together and the fixture will be not be able to be turned off without controls. When order with a plug, max cord length will be 3 feet.
AO	Not available with 5 conductor cordsets (CNP165CD), any dimming controls.
Bluetooth Embedded Controls	Includes quick disconnect.
CNP4CW	Available with IE10WCPHE only.
CNP5CW	Available with ER or ETS controls only.
CNP5DCW	Not available with AO, SBGR w/ D or ADC options, NLTAIR2 RSBG, NLTAIR2 RIO, SBG BTP.
Cordsets	Not for use in plenum spaces. Available with SMK only.
ETS	ETS Utilizes IOTA® ETS DR ACLR. Not available with 347, 3 or 4 conductor cordsets with or without a plug, ER controls, or RELOC. If cordset is required, order with CNP5C dual voltage 5 conductor cord, but not required.
HCMCFBH16YWL	6' female pigtail for use with MCRMBH16WL receptacle only.
HITXLF 1X4 FLANGE KIT, HITXLF 2X2 FLANGE KIT, HITXLF 2X4 FLANGE KIT	Field Installable kit. Not compatible with OAW, OAN and OBSN overlapping door frames. Use with IAW, IAN and IBSN inset door frames only.
HMCRCFBH16WL	Female receptacle for use with CMCMBH16YWL only.
IAW	Door finish will match housing finish (DWAM or DWHXD).
IE10WCPHE	Utilizes IOTA® ILBLP CP10 HE SD battery. Must specify voltage. Not available with MVOLT or 347V. Not available with 2X2 15000LM-24000LM, 2X4 15000LM-30000LM.
ND	Available with 2X2 and 2X4 sizes and AFL lens only. Not available with 1X4 or P125FL lens. Distribution achieved using a film applied to the AFL lens.
nLight Wired Embedded Controls	Includes quick disconnect.
NSG	Not available with Sensor Switch embedded controls, nLight Air embedded controls, Bluetooth embedded controls and nLight Wired embedded controls.
OAW	Door finish will match housing finish (DWAM or DWHXD).
PCL125	Not available with ND distribution.
RRL_	Must specify wiring at time of order. For order logic consult RRL. Example nomenclature: RRLA. Dry Listed. <a href="#">Click here for available wiring options.</a>
Sensor Switch Embedded Controls	Includes quick disconnect and smart hub.
SMK	Cordset will exit rear of fixture.
Static White LEDs	Static White LEDs Not all sizes and lumen packages are IC rated. See chart on page 3 for IC rating table. 1X4 3000LM-5000LM, 2X2 3000LM-7000LM, 2X4 3000LM-10000LM are IC rated. 1X4 7000LM-12000LM, 2X2 10000LM-18000LM, 2X4 12000LM-30000LM are not IC rated.

Accessories: Order as separate catalog number

HCMCFBH16YWL	Cord with brad mini change female connector, 3 pole, 16 gauge, yellow, SS coupling nut, wet location, 6 feet (120-347V) ⚡
HMCRCFBH16WL	Receptacle with brad mini change female connector, 3 pole, 16 gauge leads, non-metallic coupling nut, wet location (120-347V) ⚡
HITXLF 1X4 FLANGE KIT	Xtra Large (1") Flange Accessory for 1X4 ⚡
HITXLF 2X2 FLANGE KIT	Xtra Large (1") Flange Accessory for 2X2 ⚡
HITXLF 2X4 FLANGE KIT	Xtra Large (1") Flange Accessory for 2X4 ⚡

ADDITIONAL CORDSET OPTIONS

Example: CNP16W15FT

Plug Option	Plug Type	Amperage	Gauge	# of conductors	Color	Location	Length
CNP Cord only ⚡	(blank) No plug option (for cord only option)	(blank) 15 amps	(blank) 18 gauge	(blank) 3 conductors	W White	(blank) Damp	(blank) 6 feet
CP Cord with plug ⚡	TL Twist lock	20A 20 amps		4C 4 conductors (for use with EM battery)		WL Wet ⚡	3FT 3 feet
	SB Straight blade ⚡			5C 5 conductors (for use with ETS or ER controls)			10FT 10 feet
				5CD 5 conductors (for use with 0-10V dimming)			12FT 12 feet

Notes ⚡

CNP	Suitable for wet or damp locations, no need to specify WL in the nomenclature.
SB	Not available with WL.
WL	Not available with SB. Available with CP plug option only.

NEMA PLUG CONFIGURATIONS

Voltage	Straight Blade	15A Twist Lock	20A Twist Lock
MVOLT	NA	NA	NA
120	5-15P	L5-15P	L5-20P
208	NA	L6-15P	L6-20P
240	NA	L6-15P	L6-20P
277	7-15P	L7-15P	L7-20P
347	NA	NA	L24-20P

LUMEN AMBIENT TEMPERATURE (LAT) TABLE

Use these factors to determine relative lumen output for average ambient temperatures from -20-40°C (-4-104°F).

HIT 1x4						
Temp (°C)	Temp (°F)	3000 LM	5000 LM	7000 LM	10000 LM	12000 LM
-20	-4	1.052	1.055	1.054	1.059	1.060
-15	5	1.047	1.050	1.049	1.054	1.054
-10	14	1.042	1.045	1.044	1.048	1.048
-5	23	1.037	1.039	1.038	1.042	1.042
0	32	1.031	1.033	1.032	1.035	1.036
5	41	1.026	1.027	1.026	1.029	1.029
10	50	1.019	1.021	1.020	1.022	1.022
15	59	1.013	1.014	1.014	1.015	1.015
20	68	1.007	1.007	1.007	1.008	1.008
25	77	1.000	1.000	1.000	1.000	1.000
30	86	0.993	0.993	0.993	0.992	0.992
35	95	0.986	0.985	0.985	0.984	0.984
40	104	0.978	0.977	0.978	0.976	0.976

HIT 2x2								
Temp (°C)	Temp (°F)	3000 LM	5000 LM	7000 LM	10000 LM	12000 LM	15000 LM	18000 LM
-20	-4	1.053	1.054	1.056	1.061	1.062	1.065	1.065
-15	5	1.048	1.049	1.050	1.056	1.056	1.059	1.059
-10	14	1.043	1.044	1.045	1.049	1.050	1.052	1.053
-5	23	1.037	1.038	1.039	1.043	1.043	1.046	1.046
0	32	1.032	1.032	1.033	1.037	1.037	1.039	1.039
5	41	1.026	1.026	1.027	1.030	1.030	1.031	1.032
10	50	1.020	1.020	1.021	1.023	1.023	1.024	1.024
15	59	1.013	1.014	1.014	1.015	1.015	1.016	1.016
20	68	1.007	1.007	1.007	1.008	1.008	1.008	1.008
25	77	1.000	1.000	1.000	1.000	1.000	1.000	1.000
30	86	0.993	0.993	0.993	0.992	0.992	0.992	0.992
35	95	0.986	0.985	0.985	0.984	0.984	0.983	0.983
40	104	0.978	0.978	0.977	0.975	0.975	0.974	NA

HIT 2x4										
Temp (°C)	Temp (°F)	3000 LM	5000 LM	7000 LM	10000 LM	12000 LM	15000 LM	18000 LM	24000 LM	30000 LM
-20	-4	1.050	1.053	1.056	1.061	1.060	1.059	1.062	1.062	1.061
-15	5	1.046	1.048	1.050	1.055	1.054	1.053	1.056	1.056	1.056
-10	14	1.041	1.043	1.045	1.049	1.048	1.048	1.050	1.050	1.049
-5	23	1.036	1.037	1.039	1.043	1.042	1.041	1.044	1.043	1.043
0	32	1.030	1.032	1.033	1.036	1.036	1.035	1.037	1.037	1.037
5	41	1.025	1.026	1.027	1.029	1.029	1.029	1.030	1.030	1.030
10	50	1.019	1.020	1.021	1.022	1.022	1.022	1.023	1.023	1.023
15	59	1.013	1.013	1.014	1.015	1.015	1.015	1.016	1.015	1.015
20	68	1.007	1.007	1.007	1.008	1.008	1.008	1.008	1.008	1.008
25	77	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
30	86	0.993	0.993	0.993	0.992	0.992	0.992	0.992	0.992	0.992
35	95	0.986	0.986	0.985	0.984	0.984	0.984	0.983	0.984	0.984
40	104	0.979	0.978	0.977	0.975	0.976	0.976	0.975	0.975	NA

LUMEN MAINTENANCE

Table with 8 columns: Fixture Size, Lumens, Operating Hours (0, 15,000, 30,000, 45,000, 60,000, 100,000). Rows include 1x4, 2x2, and 2x4 fixtures at various lumen outputs (3000LM to 30000LM).

ADJUSTABLE OUTPUT PERFORMANCE

Table with 3 columns: AO Position, Lumen Output, Wattage. Rows 1-8 showing output percentages from 19% to 100%.

IMPACT RESISTANCE

Table with 2 columns: Lens Material, Rating. Row 1: Acrylic, IK10.

AMBIENT TEMPERATURE & IC RATINGS

Large table with 14 columns: Size, Lumens, Color Temp, IC Rated, Base Fixture (°C, °F), Any Control Option (°C, °F), ETS or ER Control Option (°C, °F), IE10WCPHE Battery (°C, °F), Supply Wire (°C, °F). Rows include various fixture sizes and lumen outputs.

Notes table with 2 columns: Note, Value. Rows: Min Ambient (-40°C), ETS or ER Control Option (-20°C), IE10WCPHE Battery (0°C).

RELOC WIRING SOLUTIONS RRL
RELOC® - Ready Luminaire

Standard Wiring Applications 120V, 277V, 347V. Table with 6 columns: Postion #, Function, RRLA, RRLB, RRLC, RRLAE. Rows 1-4.

Class I, Class II Wiring Applications 120V, 277V. Table with 3 columns: Postion #, Function, RRLC125. Rows 1-4.

Special Industrial Applications 208V, 240V. Table with 4 columns: Postion #, Function, RRLA, RRLB. Rows 1-4.

DIMENSIONS
Dimensions are shown in inches (millimeters). Includes image of wiring connector and dimension diagrams.

EMBEDDED LUMINAIRE TECHNOLOGY GUIDE



**Note:** Embedded in door frame for all sensor types

Control Type	Sensor Nomenclature	Sensor Used	Out Of The Box Settings					Notes
			Unoccupied Time Until Dim	Dim to Off Time Delay	Occupied Dim Level	Unoccupied Dim Level	Daylighting Set Point	
Sensor Switch Embedded Controls	SBG10	<a href="#">SBG 10 EZ WH 0V</a>	5M	n/a	100%	0V	n/a	360° Low mount standalone embedded sensor (8-15ft), on/off occupancy
	SBG10 D 3V	<a href="#">SBG 10 EZ WH 3V</a>	5M	n/a	100%	30%	n/a	360° Low mount standalone embedded sensor (8-15ft), occupancy controlled high/low dimming, 30% min dim level
	SBG10 P	<a href="#">SBG 10 EZ P WH 0V 10M</a>	10M	n/a	100%	0V	5FC	360° Low mount standalone embedded sensor (8-15ft), on/off photocell
	SBG6	<a href="#">SBG 6 EZ WH 0V</a>	5M	n/a	100%	0V	n/a	360° High mount standalone embedded sensor (15-30ft), on/off occupancy
	SBG6 D 3V	<a href="#">SBG 6 EZ WH 3V</a>	5M	n/a	100%	30%	n/a	360° High mount standalone embedded sensor (15-30ft), occupancy controlled high/low dimming, 30% min dim level
	SBG6 P	<a href="#">SBG 6 EZ P WH 0V 10M</a>	10M	n/a	100%	0V	5FC	360° High mount standalone embedded sensor (15-30ft), on/off photocell
Sensor Switch Embedded Controls	SBG10 ER	<a href="#">SBG 10 EZ WH 0V</a>	5M	n/a	100%	0V	n/a	360° Low mount standalone embedded sensor (8-15ft), on/off occupancy, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG10 D 3V ER	<a href="#">SBG 10 EZ WH 3V</a>	5M	n/a	100%	30%	n/a	360° Low mount standalone embedded sensor (8-15ft), occupancy controlled high/low dimming, 30% min dim level, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG10 P ER	<a href="#">SBG 10 EZ P WH 0V 10M</a>	10M	n/a	100%	0V	5FC	360° Low mount standalone embedded sensor (8-15ft), on/off photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 ER	<a href="#">SBG 6 EZ WH 0V</a>	5M	n/a	100%	0V	n/a	360° High mount standalone embedded sensor (15-30ft), on/off occupancy, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 D 3V ER	<a href="#">SBG 6 EZ WH 3V</a>	5M	n/a	100%	30%	n/a	360° High mount standalone embedded sensor (15-30ft), occupancy controlled high/low dimming, 30% min dim level, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 P ER	<a href="#">SBG 6 EZ P WH 0V 10M</a>	10M	n/a	100%	0V	5FC	360° High mount standalone embedded sensor (15-30ft), on/off photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
Bluetooth® Embedded Controls	SBG10 OCC BTP	<a href="#">SBG10 BTP OCC</a>	10M	n/a	10V	n/a	n/a	360° Low mount Bluetooth embedded sensor (7-15ft), on/off occupancy, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG10 HL BTP	<a href="#">SBG10 BTP HL</a>	10M	2.5M	10V	10%	n/a	360° Low mount Bluetooth embedded sensor (7-15ft), high/low/(off) occupancy dimming, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG10 ADC BTP	<a href="#">SBG10 BTP ADC</a>	10M	2.5M	10V	10%	50FC	360° Low mount Bluetooth embedded sensor (7-15ft), on/off occupancy with auto dimming photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG10 ANL BTP	<a href="#">SBG10 BTP ANL</a>	10M	n/a	10V	10%	50FC	360° Low mount Bluetooth embedded sensor (7-15ft), high/low/(off) occupancy dimming with auto dimming photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 OCC BTP	<a href="#">SBG6 BTP OCC</a>	10M	n/a	10V	n/a	n/a	360° High mount Bluetooth embedded sensor (15-45ft), on/off occupancy, includes IOTA ETS DR, 5 conductor power input
	SBG6 HL BTP	<a href="#">SBG6 BTP HL</a>	10M	2.5M	10V	10%	n/a	360° High mount Bluetooth embedded sensor (15-45ft), high/low/(off) occupancy dimming, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 ADC BTP	<a href="#">SBG6 BTP ADC</a>	10M	2.5M	10V	10%	50FC	360° High mount Bluetooth embedded sensor (15-45ft), on/off occupancy with auto dimming photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 ANL BTP	<a href="#">SBG6 BTP ANL</a>	10M	n/a	10V	10%	50FC	360° High mount Bluetooth embedded sensor (15-45ft), high/low/(off) occupancy dimming with auto dimming photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input



EMBEDDED LUMINAIRE TECHNOLOGY GUIDE (cont.)

Control Type	Sensor Nomenclature	Sensor Used	Out Of The Box Settings					Notes
			Unoccupied Time Until Dim	Dim to Off Time Delay	Occupied Dim Level	Unoccupied Dim Level	Daylighting Set Point	
Bluetooth® Embedded Controls	SBG10 OCC BTP ER	<a href="#">SBG10 BTP OCC</a>	10M	n/a	10V	n/a	n/a	360° Low mount Bluetooth embedded sensor (7-15ft), on/off occupancy, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG10 HL BTP ER	<a href="#">SBG10 BTP HL</a>	10M	2.5M	10V	10%	n/a	360° Low mount Bluetooth embedded sensor (7-15ft), high/low/(off) occupancy dimming, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG10 ADC BTP ER	<a href="#">SBG10 BTP ADC</a>	10M	2.5M	10V	10%	50FC	360° Low mount Bluetooth embedded sensor (7-15ft), on/off occupancy with auto dimming photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG10 ANL BTP ER	<a href="#">SBG10 BTP ANL</a>	10M	n/a	10V	10%	50FC	360° Low mount Bluetooth embedded sensor (7-15ft), high/low/(off) occupancy dimming with auto dimming photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 OCC BTP ER	<a href="#">SBG6 BTP OCC</a>	10M	n/a	10V	n/a	n/a	360° High mount Bluetooth embedded sensor (15-45ft), on/off occupancy, includes IOTA ETS DR, 5 conductor power input
	SBG6 HL BTP ER	<a href="#">SBG6 BTP HL</a>	10M	2.5M	10V	10%	n/a	360° High mount Bluetooth embedded sensor (15-45ft), high/low/(off) occupancy dimming, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 ADC BTP ER	<a href="#">SBG6 BTP ADC</a>	10M	2.5M	10V	10%	50FC	360° High mount Bluetooth embedded sensor (15-45ft), on/off occupancy with auto dimming photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	SBG6 ANL BTP ER	<a href="#">SBG6 BTP ANL</a>	10M	n/a	10V	10%	50FC	360° High mount Bluetooth embedded sensor (15-45ft), high/low/(off) occupancy dimming with auto dimming photocell, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
nLight Air Embedded Controls	NLTAIR2 APIR	<a href="#">RSBG 10 ZTS WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° Low mount nLight air embedded sensor (8-15ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app
	NLTAIR2 APIRM	<a href="#">RSBG 6 ZTS WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° High mount nLight air embedded sensor (15-30ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app
	NLTAIR2 APIRH	<a href="#">RSBG 40 ZTS WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° High bay nLight air embedded sensor (40ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app
	NLTAIREM2 APIR	<a href="#">RSBG 10 ZT EM WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° Low mount nLight air embedded sensor (8-15ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app, UL924 emergency operation, 3 conductor power input
	NLTAIREM2 APIRM	<a href="#">RSBG 6 ZT EM WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° High mount nLight air embedded sensor (15-30ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app, UL924 emergency operation, 3 conductor power input
	NLTAIREM2 APIRH	<a href="#">RSBG 40 ZT EM WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° High bay nLight air embedded sensor (40ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app, UL924 emergency operation, 3 conductor power input
	NLTAIRER2 APIR	<a href="#">RSBG 10 ZTS WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° Low mount nLight air embedded sensor (8-15ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	NLTAIRER2 APIRM	<a href="#">RSBG 40 ZTS WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° High mount nLight air embedded sensor (15-30ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	NLTAIRER2 APIRH	<a href="#">RSBG 40 ZTS WH G2</a>	7.5M	2.5M	100%	10%	50FC	360° High bay nLight air embedded sensor (40ft), combined daylight and occupancy dimming, fully programmable with Clarity+ Pro app, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input
	NLTAIR2	<a href="#">RIO ZTS EXTDB ACWH 180D G2</a>	n/a	n/a	80%	n/a	n/a	nLight air embedded network interface, fully programmable with Clarity+ Pro app
	NLTAIREM2	<a href="#">RIO ZT EM EXTDB ACWH 180D G2</a>	n/a	n/a	80%	n/a	n/a	nLight air embedded network interface, fully programmable with Clarity+ Pro app, UL924 emergency operation, 3 conductor power input
	NLTAIRER2	<a href="#">RIO ZTS EXTDB ACWH 180D G2</a>	n/a	n/a	80%	n/a	n/a	nLight air embedded network interface, fully programmable with Clarity+ Pro app, UL924 emergency operation, includes IOTA ETS DR, 5 conductor power input

STATIC WHITE OPERATING CHARACTERISTICS ‡

Nominal Lumens	Size	Lens	Distribution	Input Watts ⬆	30K		35K		40K		50K				
					80CRI	90CRI	80CRI	90CRI	80CRI	90CRI	80CRI	90CRI			
3000LM	1X4	AFL	MD	23	2897	2535	2938	2596	3018	2636	3078	2736	Lumens		
					126	111	128	113	132	115	134	119	LPW		
		PCL125	MD		2996	2621	3037	2684	3121	2725	3183	2829	Lumens		
					131	114	133	117	136	119	139	123	LPW		
5000LM	1X4	AFL	MD	38	4967	4347	5036	4450	5174	4519	5278	4691	Lumens		
					130	114	132	116	135	118	138	123	LPW		
		PCL125	MD		5136	4494	5207	4601	5350	4672	5457	4851	Lumens		
					134	117	136	120	140	122	143	127	LPW		
7000LM	1X4	AFL	MD	50	6764	5919	6858	6060	7046	6154	7187	6389	Lumens		
					134	117	136	120	140	122	143	127	LPW		
		PCL125	MD		6994	6120	7091	6266	7286	6363	7431	6606	Lumens		
					139	121	141	124	145	126	147	131	LPW		
10000LM	1X4	AFL	MD	75	9667	8458	9801	8660	10069	8794	10271	9130	Lumens		
					129	113	130	115	134	117	137	122	LPW		
		PCL125	MD		9995	8746	10134	8954	10411	9093	10620	9440	Lumens		
					133	116	135	119	139	121	141	126	LPW		
12000LM	1X4	AFL	MD	91	11588	10139	11749	10381	12071	10542	12312	10944	Lumens		
					127	111	128	114	132	115	135	120	LPW		
		PCL125	MD		11981	10484	12148	10733	12480	10900	12730	11316	Lumens		
					131	115	133	117	136	119	139	124	LPW		
3000LM	2x2	AFL	MD	24	2927	2561	2967	2622	3049	2662	3109	2764	Lumens		
						124	109	126	111	130	113	132	117	LPW	
			ND		2936	2569	2976	2630	3058	2671	3119	2772	Lumens		
		PCL125	MD		125	109	126	112	130	114	133	118	LPW		
							3025	2647	3067	2710	3151	2752	3214	2857	Lumens
							129	112	130	115	134	117	137	121	LPW
5000LM	2x2	AFL	MD	39	4905	4292	4974	4394	5110	4463	5212	4633	Lumens		
						125	109	127	112	130	114	133	118	LPW	
			ND		4920	4305	4989	4408	5126	4476	5228	4647	Lumens		
		PCL125	MD		125	110	127	112	131	114	133	119	LPW		
							5071	4437	5141	4543	5282	4613	5388	4789	Lumens
							129	113	131	116	135	118	137	122	LPW
7000LM	2x2	AFL	MD	54	6801	5951	6896	6093	7085	6187	7226	6423	Lumens		
						125	109	127	112	130	114	133	118	LPW	
			ND		6822	5969	6917	6111	7106	6206	7248	6443	Lumens		
		PCL125	MD		125	110	127	112	131	114	133	119	LPW		
							7031	6152	7128	6298	7324	6396	7470	6640	Lumens
							129	113	131	116	135	118	137	122	LPW
10000LM	2x2	AFL	MD	80	9604	8403	9737	8603	10004	8737	10204	9070	Lumens		
						120	105	121	107	125	109	127	113	LPW	
			ND		9633	8429	9767	8630	10034	8763	10235	9098	Lumens		
		PCL125	MD		120	105	122	108	125	109	128	113	LPW		
							9928	8687	10066	8894	10341	9032	10548	9376	Lumens
							124	108	126	111	129	113	132	117	LPW

Notes ‡	
Input Watts	120 Volts.
Operating Characteristics	Absolute photometry calculated in accordance with IESNA LM-79-08 @ 25°C.



STATIC WHITE LED OPERATING CHARACTERISTICS (cont.) ‡

Nominal Lumens	Size	Lens	Distribution	Input Watts ⬆	30K		35K		40K		50K			
					80CRI	90CRI	80CRI	90CRI	80CRI	90CRI	80CRI	90CRI		
12000LM	2X2	AFL	MD	99	11534	10092	11694	10333	12015	10493	12255	10893	Lumens	
					117	102	118	105	122	106	124	110	LPW	
			ND		11569	10123	11730	10364	12051	10525	12292	10927	Lumens	
					117	102	119	105	122	107	124	111	LPW	
		PCL125	MD		11923	10433	12089	10681	12420	10847	12669	11261	Lumens	
					121	106	122	108	126	110	128	114	LPW	
15000LM	2X2	AFL	MD	122	14481	12671	14682	12972	15084	13174	15386	13676	Lumens	
					119	104	120	106	124	108	126	112	LPW	
			ND		14525	12710	14727	13012	15130	13214	15433	13718	Lumens	
					119	104	121	107	124	108	127	113	LPW	
		PCL125	MD		14970	13098	15178	13410	15593	13618	15905	14138	Lumens	
					123	107	124	110	128	112	130	116	LPW	
18000LM	2X2	AFL	MD	142	16502	14439	16731	14783	17189	15012	17533	15585	Lumens	
					116	101	118	104	121	105	123	109	LPW	
			ND		16552	14483	16782	14828	17242	15058	17587	15633	Lumens	
					116	102	118	104	121	106	124	110	LPW	
		PCL125	MD		17059	14926	17295	15282	17769	15519	18125	16111	Lumens	
					120	105	121	107	125	109	127	113	LPW	
3000LM	2X4	AFL	MD	22	2999	2625	3041	2687	3124	2729	3187	2833	Lumens	
					137	120	139	123	143	125	146	130	LPW	
			ND		3057	2675	3099	2738	3184	2781	3248	2887	Lumens	
					140	122	142	125	146	127	149	132	LPW	
		PCL125	MD		3174	2777	3218	2843	3306	2888	3372	2998	Lumens	
					145	127	147	130	151	132	154	137	LPW	
5000LM	2X4	AFL	MD	34	4816	4214	4883	4315	5017	4382	5117	4549	Lumens	
					141	123	143	126	147	128	149	133	LPW	
			ND		4908	4295	4977	4397	5113	4465	5215	4636	Lumens	
					143	125	145	128	149	130	152	135	LPW	
		PCL125	MD		5097	4460	5168	4566	5309	4637	5415	4814	Lumens	
					149	130	151	133	155	135	158	141	LPW	
7000LM	2X4	AFL	MD	49	6761	5916	6855	6057	7043	6150	7183	6385	Lumens	
					138	121	140	124	144	125	147	130	LPW	
			ND		6890	6029	6986	6172	7177	6268	7321	6507	Lumens	
					141	123	143	126	146	128	149	133	LPW	
		PCL125	MD		7154	6260	7254	6409	7453	6509	7602	6757	Lumens	
					146	128	148	131	152	133	155	138	LPW	
10000LM	2X4	AFL	MD	77	10048	8792	10187	9001	10466	9141	10676	9490	Lumens	
					131	114	133	117	136	119	139	124	LPW	
			ND		10240	8960	10382	9173	10667	9316	10880	9671	Lumens	
					133	117	135	119	139	121	142	126	LPW	
		PCL125	MD		10633	9304	10780	9525	11076	9673	11297	10042	Lumens	
					138	121	140	124	144	126	147	131	LPW	

Notes ‡	
Input Watts	120 Volts.
Operating Characteristics	Absolute photometry calculated in accordance with IESNA LM-79-08 @ 25°C.

STATIC WHITE LED OPERATING CHARACTERISTICS (cont.) ‡

Nominal Lumens	Size	Lens	Distribution	Input Watts ⚡	30K		35K		40K		50K		
					80CRI	90CRI	80CRI	90CRI	80CRI	90CRI	80CRI	90CRI	
12000LM	2x4	AFL	MD	85	11673	10214	11835	10457	12159	10619	12403	11024	Lumens
			ND		137	120	139	122	142	124	145	129	LPW
		PCL125	MD		11896	10409	12062	10657	12392	10822	12640	11235	Lumens
					139	122	141	125	145	127	148	132	LPW
					12353	10809	12524	11066	12867	11237	13125	11666	Lumens
					145	127	147	130	151	132	154	137	LPW
15000	2x4	AFL	MD	104	14473	12663	14674	12965	15076	13166	15377	13668	Lumens
			ND		139	122	141	125	145	126	148	131	LPW
		PCL125	MD		14749	12906	14954	13213	15364	13418	15671	13930	Lumens
					142	124	144	127	148	129	151	134	LPW
					15315	13401	15528	13720	15953	13933	16272	14464	Lumens
					147	129	149	132	153	134	156	139	LPW
18000	2x4	AFL	MD	128	17386	15213	17627	15575	18110	15816	18472	16420	Lumens
			ND		136	119	138	122	142	124	145	129	LPW
		PCL125	MD		17718	15504	17964	15873	18457	16119	18826	16734	Lumens
					139	121	141	124	145	126	147	131	LPW
					18398	16098	18654	16482	19165	16737	19548	17376	Lumens
					144	126	146	129	150	131	153	136	LPW
24000LM	2X4	AFL	MD	169	23088	20202	23408	20683	24050	21004	24531	21805	Lumens
			ND		136	119	138	122	142	124	145	129	LPW
		PCL125	MD		23530	20588	23856	21079	24510	21405	25000	22222	Lumens
					139	122	141	124	145	126	148	131	LPW
					24432	21378	24771	21887	25450	22226	25959	23075	Lumens
					144	126	146	129	150	131	153	136	LPW
30000LM	2X4	AFL	MD	215	28793	25194	29193	25794	29993	26193	30592	27193	Lumens
			ND		134	117	136	120	140	122	142	127	LPW
		PCL125	MD		29344	25676	29751	26287	30566	26695	31178	27714	Lumens
					137	120	139	122	142	124	145	129	LPW
					30469	26661	30893	27295	31739	27719	32374	28777	Lumens
					142	124	144	127	148	129	151	134	LPW

Notes ‡	
Input Watts	120 Volts.
Operating Characteristics	Absolute photometry calculated in accordance with IESNA LM-79-08 @ 25°C.

EMERGENCY LUMEN OUTPUT

Options	Approximate Luminaire Efficacy	1 Minute	45 Minutes	90 Minutes
IE10WCPHE	100 LPW	1000	1000	<b>1000</b>
	110 LPW	1100	1100	<b>1100</b>
	120 LPW	1200	1200	<b>1200</b>
	130 LPW	1300	1300	<b>1300</b>
	140 LPW	1400	1400	<b>1400</b>
	150 LPW	1500	1500	<b>1500</b>

**How to Estimate Delivered Lumens in Emergency Mode**

Use the formula below to estimate the delivered lumens in emergency mode

**Delivered Lumens = P x LPW**

P = Output power of emergency driver

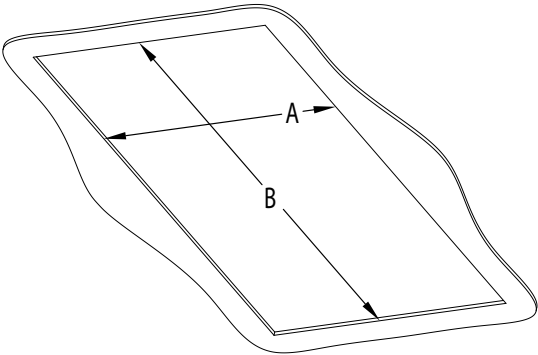
LPW = Lumen per watt rating of the luminaire.

The LPW rating is also available at [Designlight Consortium](#)

P = 10 watts for IE10WCPHE

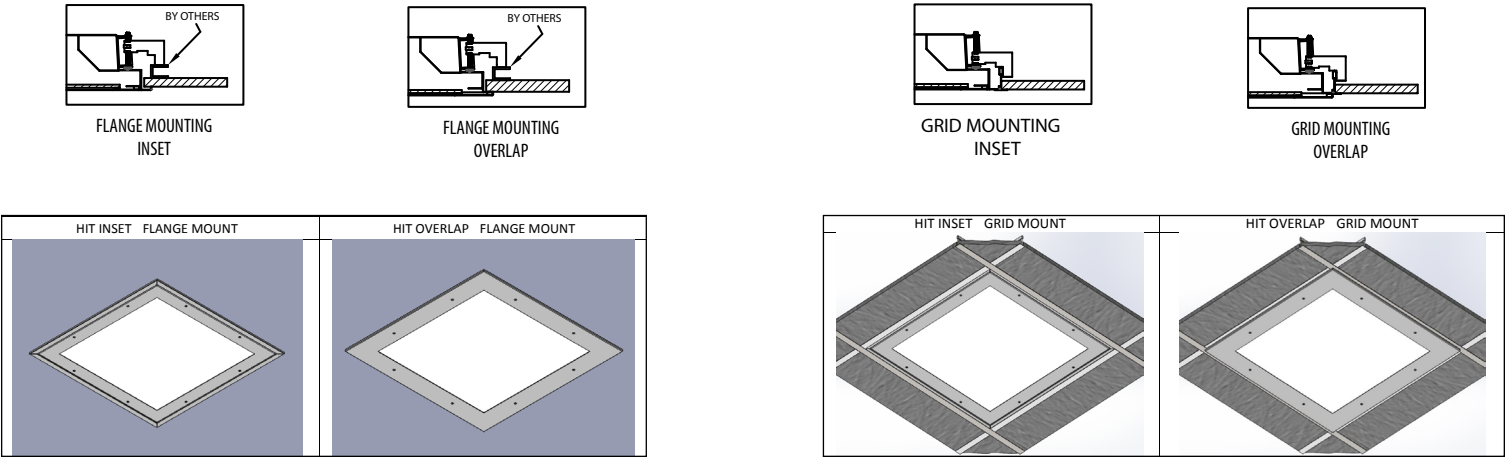
MOUNTING DATA

Rough-in



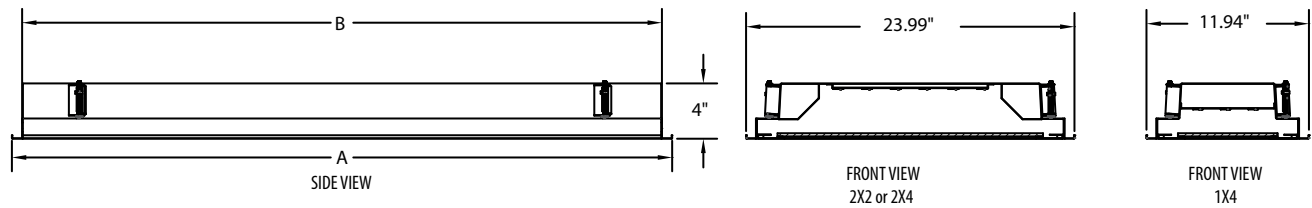
FLANGE ROUGH-IN DIMENSIONS

Configuration	A (inches)	B (inches)
1x4	11-1/2	47-1/2
2x2	23-1/2	23-1/2
2x4	23-1/2	47-1/2

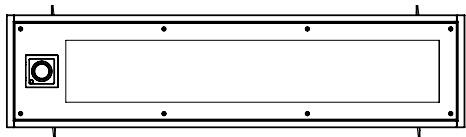


DIMENSIONS

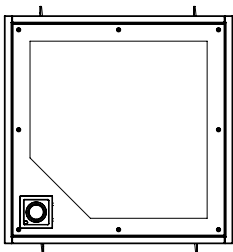
All dimensions are in inches (centimeters) unless otherwise indicated.  
Dimensions may vary with options or accessories.



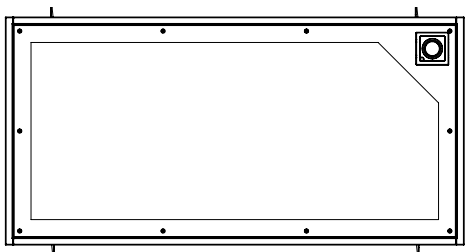
Series	Length	(A) Flange Length	(B) Housing Length
HIT	1X4	47.99"	46.93"
HIT	2X2	23.99"	22.92"
HIT	2X4	47.99"	46.92"



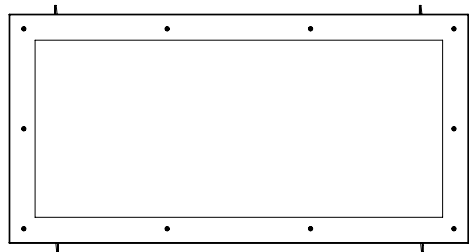
1X4 with Sensor, Inset Door Frame



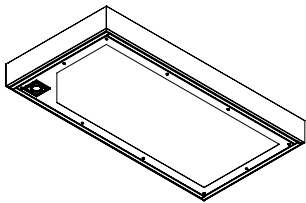
2X2 with Sensor, Inset Door Frame



2X4 with Sensor, Inset Door Frame



2X4 Overlap Door



2X4 with Sensor, Inset Door, Surface Mount Kit