

HIT

Cleanroom LED Recessed Luminaire

Amber or Red 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.

*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 ASTM B117 (DWHXD) or optional polyester TGIC Anti-Microbial low gloss white finish (DWAM).

Optics

Both sides of lens is 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.

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

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.

HIT AMB RED

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A+ Capable options indicated by this color background.

ORDERING INFORMATION

Example: HIT 2X4 G 900LM IAW AFL MD MVOLT GZ1 40K RED DWAM

Series	Size	Trim type	Nominal Lumens
HIT Recessed cleanroom troffer wide	1X4 1 foot wide by 4 feet long	G Grid (9/16" - 1 1/2" W x 2" H)	570nm Amber LEDs
	2X2 2 feet wide by 2 feet long	F Flange	630nm Red LEDs
	2X4 2 feet wide by 4 feet long	SMK Surface/Suspension Mount	1X4 2X2 2X4
			2000LM 2000LM 3000LM
			4000LM 4000LM 5000LM
			6000LM 6000LM 7000LM
			8000LM 10000LM
			12000LM 12000LM
			15000LM
			800LM 800LM 900LM
			1400LM 1400LM 2200LM
			1900LM 1900LM 3600LM
			2600LM 5000LM

Door frame	Lens	Distribution	Voltage	Driver	Color temperature
IAW Inset aluminum, white	AFL 1/8" Acrylic, frosted	MD Medium	MVOLT 120-277V	GZ1 0-10V dimming	AMB Amber LEDs
IAN Inset aluminum, silver	PCL125 1/8" Polycarbonate, clear	ND Narrow	120 120V		RED Red LEDs
IBSN Inset brushed stainless steel			208 208V		
OAW Overlapping aluminum, white			240 240V		
OAN Overlapping aluminum, silver			277 277V		
OBSN Overlapping brushed stainless steel			347 347V		

Options	Finish
<p>Cordsets:</p> <p>CNPW Cord, no plug, 18 gauge, 3 conductors, white, wet or damp locations, 6 feet</p> <p>CNP4CW Cord, no plug, 18 gauge, 4 conductors for use with EM battery, white, wet or damp locations, 6 feet</p> <p>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</p> <p>CNP5CDW Cord, no plug, 18 gauge, 5 conductors for 0-10V dimming, white, wet or damp locations, 6 feet</p> <p>CPTLWWL Cord with NEMA twist lock 15 amp plug, white, wet location, 6 feet (120-277V)</p> <p>CPSBW Cord with NEMA straight blade 15 amp plug, white, damp location, 6 feet (120/277V)</p> <p>CMCMBH16YWL Cord with brad mini change male connector, 3 pole, 16 gauge, yellow, non-metallic coupling nut, wet location, 6 feet (120-347V)</p> <p>MCRMBH16WL Receptacle (no cord) with brad mini change male connector, 3 pole, 16 gauge leads, SS coupling nut, wet location, (120-347V)</p> <p>Click here for additional cordset options</p> <p>Emergency:</p> <p>ETS Automatic load control relay device (ALCR) for UL924 operation when using auxiliary generator or central inverter</p> <p>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</p>	<p>Sensor Switch Embedded Controls:</p> <p>SBG10 360° large motion (15-45 mounting heights), on/off occupancy</p> <p>Click here for additional sensor options</p> <p>nLight Air Embedded Controls:</p> <p>NLTAIR2 APIR nLight® Air Generation 2 enabled 360° high mount sensor, (8-15' mounting heights)</p> <p>NLTAIREM2 APIR nLight® Air Generation 2 enabled 360° low mount sensor, (8-15' mounting heights), UL924 emergency operation with a 3 conductor power input</p> <p>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</p> <p>NLTAIR2 nLight® Air Generation 2 fixture embedded network interface, 0-10V dimming output</p> <p>NLTAIREM2 nLight® Air Generation 2 fixture embedded network interface, UL924 emergency operation with a 3 conductor power input</p> <p>NLTAIRER2 nLight® Air Generation 2 enabled fixture embedded network interface, UL924 emergency operation using the IOTA® ETS DR with a 5 conductor power input</p> <p>Click here for additional control options</p> <p>Bluetooth® Embedded Controls:</p> <p>SBG10 OCC BTP 360° Low Mount Sensor, (7-15' mounting heights), on/off occupancy, utilizes smart hub for Bluetooth® programmability</p> <p>Click here for additional sensor options</p> <p>Other Options:</p> <p>2470P 24/7 operation with EM battery and plug</p> <p>A0 Adjustable output (fixed dimming)</p> <p>NSG Non silicone gasket (EPDM)</p> <p>RRL_ RELOC® ready luminaire</p> <p>SLDM Step level dimming module (100%, 50%, OFF)</p> <p>TPS Tamper resistant screws (Torx T-15)</p>
DWAM Antimicrobial, white	
DWHXD Super durable, white	

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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 or 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. Click here for available wiring options.
Sensor Switch Embedded Controls	Includes quick disconnect and smart hub.
SMK	Cordset will exit rear of fixture.

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	15FT	15 feet	
CP Cord with plug ‡	TL Twist lock	20A 20 amps		4C 4 conductors (for use with EM battery)		WL Wet ‡	3FT 3 feet	20FT	20 feet	
	SB Straight blade ‡			5C 5 conductors (for use with ETS or ER controls)			10FT 10 feet	25FT	25 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

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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 AMB 1x4				
Temp (°C)	Temp (°F)	2000LM	4000LM	6000LM
-20	-4	1.063	1.070	1.074
-15	5	1.058	1.064	1.068
-10	14	1.053	1.058	1.061
-5	23	1.047	1.052	1.054
0	32	1.040	1.044	1.046
5	41	1.033	1.036	1.038
10	50	1.026	1.028	1.030
15	59	1.018	1.019	1.020
20	68	1.009	1.010	1.010
25	77	1.000	1.000	1.000
30	86	0.990	0.990	0.989
35	95	0.980	0.979	0.978
40	104	0.970	0.967	0.965

HIT AMB 2x2						
Temp (°C)	Temp (°F)	2000LM	4000LM	6000LM	8000LM	12000LM
-20	-4	1.069	1.071	1.079	1.089	1.105
-15	5	1.064	1.066	1.072	1.081	1.096
-10	14	1.058	1.059	1.065	1.073	1.086
-5	23	1.051	1.053	1.057	1.064	1.075
0	32	1.044	1.045	1.049	1.055	1.064
5	41	1.036	1.037	1.040	1.045	1.053
10	50	1.028	1.029	1.031	1.035	1.040
15	59	1.019	1.020	1.021	1.024	1.027
20	68	1.010	1.010	1.011	1.012	1.014
25	77	1.000	1.000	1.000	1.000	1.000
30	86	0.989	0.989	0.988	0.987	0.986
35	95	0.978	0.978	0.976	0.974	0.970
40	104	0.967	0.967	0.964	0.960	0.955

HIT AMB 2x4							
Temp (°C)	Temp (°F)	3000LM	5000LM	7000LM	10000LM	12000LM	15000LM
-20	-4	1.063	1.069	1.091	1.085	1.090	1.099
-15	5	1.058	1.063	1.085	1.078	1.083	1.090
-10	14	1.053	1.057	1.078	1.070	1.074	1.082
-5	23	1.047	1.051	1.071	1.062	1.065	1.071
0	32	1.040	1.044	1.063	1.053	1.056	1.060
5	41	1.033	1.036	1.055	1.043	1.046	1.050
10	50	1.026	1.028	1.046	1.033	1.035	1.038
15	59	1.018	1.019	1.036	1.023	1.024	1.026
20	68	1.009	1.010	1.026	1.012	1.012	1.013
25	77	1.000	1.000	1.000	1.000	1.000	1.000
30	86	0.990	0.990	1.004	0.988	0.987	0.986
35	95	0.980	0.979	0.992	0.975	0.974	0.972
40	104	0.969	0.967	0.980	0.962	0.960	0.957

HIT RED 1x4				
Temp (°C)	Temp (°F)	800LM	1400LM	1900LM
-20	-4	1.272	1.282	1.287
-15	5	1.244	1.252	1.257
-10	14	1.214	1.221	1.226
-5	23	1.185	1.191	1.195
0	32	1.155	1.160	1.163
5	41	1.124	1.128	1.131
10	50	1.093	1.097	1.099
15	59	1.063	1.065	1.066
20	68	1.032	1.033	1.033
25	77	1.000	1.000	1.000
30	86	0.968	0.968	0.966
35	95	0.936	0.934	0.933
40	104	0.903	0.901	0.898

HIT RED 2x2					
Temp (°C)	Temp (°F)	800LM	1400LM	1900LM	2600LM
-20	-4	1.279	1.283	1.291	1.308
-15	5	1.250	1.253	1.260	1.275
-10	14	1.219	1.222	1.229	1.242
-5	23	1.189	1.192	1.197	1.208
0	32	1.159	1.160	1.165	1.175
5	41	1.127	1.129	1.133	1.140
10	50	1.096	1.097	1.100	1.106
15	59	1.064	1.065	1.067	1.071
20	68	1.033	1.033	1.033	1.036
25	77	1.000	1.000	1.000	1.000
30	86	0.967	0.967	0.966	0.964
35	95	0.935	0.933	0.931	0.928
40	104	0.902	0.900	0.897	0.891

HIT RED 2x4					
Temp (°C)	Temp (°F)	900LM	2200LM	3600LM	5000LM
-20	-4	1.272	1.289	1.312	1.338
-15	5	1.243	1.258	1.279	1.302
-10	14	1.214	1.227	1.245	1.266
-5	23	1.184	1.196	1.211	1.229
0	32	1.154	1.164	1.177	1.191
5	41	1.124	1.131	1.142	1.154
10	50	1.093	1.099	1.107	1.116
15	59	1.062	1.066	1.072	1.078
20	68	1.031	1.033	1.036	1.039
25	77	1.000	1.000	1.000	1.000
30	86	0.968	0.966	0.963	0.961
35	95	0.936	0.932	0.927	0.921
40	104	0.903	0.898	0.890	0.881

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ADJUSTABLE OUTPUT PERFORMANCE

AO Position	Lumen Output	Wattage
1	19%	19%
2	29%	27%
3	42%	40%
4	55%	53%
5	70%	68%
6	81%	79%
7	95%	94%
8	100%	100%

IMPACT RESISTANCE

Lens Material	Rating
Acrylic	IK10

AMBIENT TEMPERATURE & IC RATINGS

Size	Lumens	Color Temp	IC Rated	Base Fixture		Any Control Option		ETS or ER Control Option ‡		IE10WCPHE Battery ‡		Supply Wire	
				°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
1X4	2000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
1X4	4000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
1X4	6000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X2	2000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X2	4000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X2	6000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X2	8000LM	AMB	Non IC	40	104	40	104	35	95	25	77	90	194
2X2	12000LM	AMB	Non IC	40	104	40	104	25	77	NA	NA	90	194
2X4	3000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X4	5000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X4	7000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X4	10000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X4	12000LM	AMB	IC	40	104	40	104	30	86	30	86	90	194
2X4	15000LM	AMB	Non IC	40	104	40	104	35	95	25	77	90	194
1X4	800LM	RED	IC	40	104	40	104	30	86	30	86	90	194
1X4	1400LM	RED	IC	40	104	40	104	30	86	30	86	90	194
1X4	1900LM	RED	IC	40	104	40	104	30	86	30	86	90	194
2X2	800LM	RED	IC	40	104	40	104	30	86	30	86	90	194
2X2	1400LM	RED	IC	40	104	40	104	30	86	30	86	90	194
2X2	1900LM	RED	IC	40	104	40	104	30	86	30	86	90	194
2X2	2600LM	RED	Non IC	40	104	40	104	35	95	25	77	90	194
2X4	900LM	RED	IC	40	104	40	104	30	86	30	86	90	194
2X4	2200LM	RED	IC	40	104	40	104	30	86	30	86	90	194
2X4	3600LM	RED	IC	40	104	40	104	30	86	30	86	90	194
2X4	5000LM	RED	Non IC	40	104	40	104	35	95	25	77	90	194

Notes	
Min Ambient	-40°C unless noted.
ETS or ER Control Option	-20°C minimum ambient.
IE10WCPHE Battery	0°C minimum ambient.



RELOC®
WIRING SOLUTIONS

RRL
RELOC® - Ready Luminaire

Standard Wiring Applications 120V, 277V, 347V					
Postion #	Function	RRLA	RRLB	RRLC	RRLAE
1	Hot 1	X			X
2	Hot 2		X		X
3	Hot 3			X	
4	Neutral	X	X	X	X

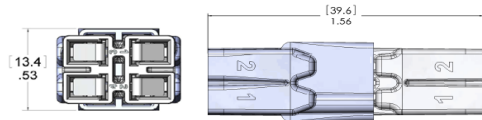
Class I, Class II Wiring Applications 120V, 277V		
Postion #	Function	RRLC125
1	Hot 1	X
2	Data 1 (+)	X
3	Data 2 (-)	X
4	Neutral	X

Special Industrial Applications 208V, 240V			
Postion #	Function	RRLA	RRLB
1	Hot 1	X	
2	Hot 2		X
3	Hot 3		
4	Hot 4	X	X



DIMENSIONS

Dimensions are shown in inches (millimeters)



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	SBG 10 EZ WH 0V	5M	n/a	100%	0V	n/a	360° Low mount standalone embedded sensor (8-15ft), on/off occupancy
	SBG10 D 3V	SBG 10 EZ WH 3V	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	SBG 10 EZ P WH 0V 10M	10M	n/a	100%	0V	5FC	360° Low mount standalone embedded sensor (8-15ft), on/off photocell
	SBG6	SBG 6 EZ WH 0V	5M	n/a	100%	0V	n/a	360° High mount standalone embedded sensor (15-30ft), on/off occupancy
	SBG6 D 3V	SBG 6 EZ WH 3V	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	SBG 6 EZ P WH 0V 10M	10M	n/a	100%	0V	5FC	360° High mount standalone embedded sensor (15-30ft), on/off photocell
Sensor Switch Embedded Controls	SBG10 ER	SBG 10 EZ WH 0V	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	SBG 10 EZ WH 3V	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	SBG 10 EZ P WH 0V 10M	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	SBG 6 EZ WH 0V	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	SBG 6 EZ WH 3V	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	SBG 6 EZ P WH 0V 10M	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	SBG10 BTP OCC	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	SBG10 BTP HL	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	SBG10 BTP ADC	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	SBG10 BTP ANL	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	SBG6 BTP OCC	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	SBG6 BTP HL	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	SBG6 BTP ADC	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	SBG6 BTP ANL	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	SBG10 BTP OCC	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	SBG10 BTP HL	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	SBG10 BTP ADC	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	SBG10 BTP ANL	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	SBG6 BTP OCC	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	SBG6 BTP HL	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	SBG6 BTP ADC	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	SBG6 BTP ANL	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	RSBG 10 ZTS WH G2	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	RSBG 6 ZTS WH G2	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	RSBG 40 ZTS WH G2	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	RSBG 10 ZT EM WH G2	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	RSBG 6 ZT EM WH G2	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	RSBG 40 ZT EM WH G2	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	RSBG 10 ZTS WH G2	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	RSBG 40 ZTS WH G2	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	RSBG 40 ZTS WH G2	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	RIO ZTS EXTDB ACWH 180D G2	n/a	n/a	80%	n/a	n/a	nLight air embedded network interface, fully programmable with Clarity+ Pro app
	NLTAIREM2	RIO ZT EM EXTDB ACWH 180D G2	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	RIO ZTS EXTDB ACWH 180D G2	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

HIT AMB RED

LED Recessed Cleanroom Troffer, Amber or Red LEDs



OPERATING CHARACTERISTICS ‡

Nominal Lumens	Size	Lens	Distribution	Input Watts ‡	AMB	
2000LM	1X4	AFL	MD	23	2335	Lumens
		PCL125			103	LPW
					2415	Lumens
					107	LPW
4000LM	1X4	AFL	MD	35	4043	Lumens
		PCL125			115	LPW
					4180	Lumens
					119	LPW
6000LM	1X4	AFL	MD	60	6098	Lumens
		PCL125			101	LPW
					6305	Lumens
					105	LPW
2000LM	2X2	AFL	MD	24	2020	Lumens
			ND		85	LPW
					2018	Lumens
		PCL125	MD		85	LPW
					2080	Lumens
					87	LPW
4000LM	2X2	AFL	MD	44	4225	Lumens
			ND		96	LPW
		PCL125	MD		4221	Lumens
					96	LPW
					4351	Lumens
6000LM	2X2	AFL	MD	65	4225	Lumens
			ND		96	LPW
					4351	Lumens
		PCL125	MD		99	LPW
					6213	Lumens
					95	LPW
8000LM	2X2	AFL	MD	91	6209	Lumens
			ND		95	LPW
		PCL125	MD		6399	Lumens
					98	LPW
					8173	Lumens
12000LM	2X2	AFL	MD	138	8173	Lumens
			ND		89	LPW
		PCL125	MD		8167	Lumens
					89	LPW
					8417	Lumens
3000LM	2X4	AFL	MD	25	91	LPW
			ND		11954	Lumens
		PCL125	MD		87	LPW
					11945	Lumens
					87	LPW
3000LM	2X4	AFL	MD	25	12311	Lumens
			ND		88	LPW
		PCL125	MD		3045	Lumens
					124	LPW
					3092	Lumens
3000LM	2X4	AFL	MD	25	126	LPW
			ND		3211	Lumens
		PCL125	MD		131	LPW

Nominal Lumens	Size	Lens	Distribution	Input Watts ↑	AMB	
5000LM	2X4	AFL	MD	42	5114	Lumens
			ND		122	LPW
		PCL125			5193	Lumens
					123	LPW
					5392	Lumens
			128		LPW	
7000LM	2X4	AFL	MD	60	7103	Lumens
			ND		119	LPW
		PCL125			7212	Lumens
					121	LPW
					7488	Lumens
			126		LPW	
10000LM	2X4	AFL	MD	87	9986	Lumens
			ND		114	LPW
		PCL125			10139	Lumens
					116	LPW
					10528	Lumens
			120		LPW	
12000LM	2X4	AFL	MD	102	12111	Lumens
			ND		119	LPW
		PCL125			12296	Lumens
					121	LPW
					12768	Lumens
			126		LPW	
15000LM	2X4	AFL	MD	129	14834	Lumens
			ND		115	LPW
		PCL125			15060	Lumens
					116	LPW
					15638	Lumens
			121		LPW	

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

HIT AMB RED

LED Recessed Cleanroom Troffer, Amber or Red LEDs



OPERATING CHARACTERISTICS ‡

Nominal Lumens	Size	Lens	Distribution	Input Watts ‡	RED	
800LM	1X4	AFL	MD	17	818	Lumens
					47	LPW
		PCL125	MD	18	845	Lumens
					46	LPW
1400LM	1X4	AFL	MD	30	1419	Lumens
					47	LPW
		PCL125	MD		1467	Lumens
					48	LPW
1900LM	1X4	AFL	MD	42	1910	Lumens
					45	LPW
		PCL125	MD		1975	Lumens
					47	LPW
800LM	2X2	AFL	MD	19	826	Lumens
					43	LPW
			ND		825	Lumens
					43	LPW
		PCL125	MD		850	Lumens
					44	LPW
1400LM	2X2	AFL	MD	31	1483	Lumens
					49	LPW
			ND		1482	Lumens
					49	LPW
		PCL125	MD		1527	Lumens
					50	LPW
1900LM	2X2	AFL	MD	43	2053	Lumens
					47	LPW
			ND		2052	Lumens
					47	LPW
		PCL125	MD		2114	Lumens
					49	LPW
2600LM	2X2	AFL	MD	65	2837	Lumens
					44	LPW
			ND		2835	Lumens
					44	LPW
		PCL125	MD		2922	Lumens
					45	LPW

Nominal Lumens	Size	Lens	Distribution	Input Watts ‡	RED	
900LM	2X4	AFL	MD	17	940	Lumens
					56	LPW
			ND		954	Lumens
					56	LPW
		PCL125	MD		991	Lumens
					59	LPW
2200LM	2X4	AFL	MD	42	2221	Lumens
					53	LPW
			ND		2255	Lumens
					54	LPW
		PCL125	MD		2341	Lumens
					56	LPW
3600LM	2X4	AFL	MD	71	3637	Lumens
					51	LPW
			ND		3692	Lumens
					52	LPW
		PCL125	MD		3834	Lumens
					54	LPW
5000LM	2X4	AFL	MD	103	4933	Lumens
					48	LPW
			ND		5008	Lumens
					48	LPW
		PCL125	MD		5200	Lumens
					50	LPW

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

HIT AMB RED

LED Recessed Cleanroom Troffer, Amber or Red LEDs



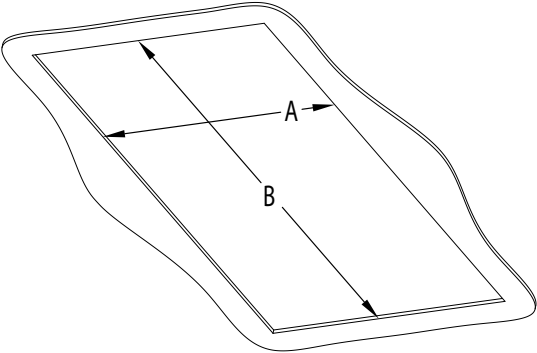
EMERGENCY LUMEN OUTPUT

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

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

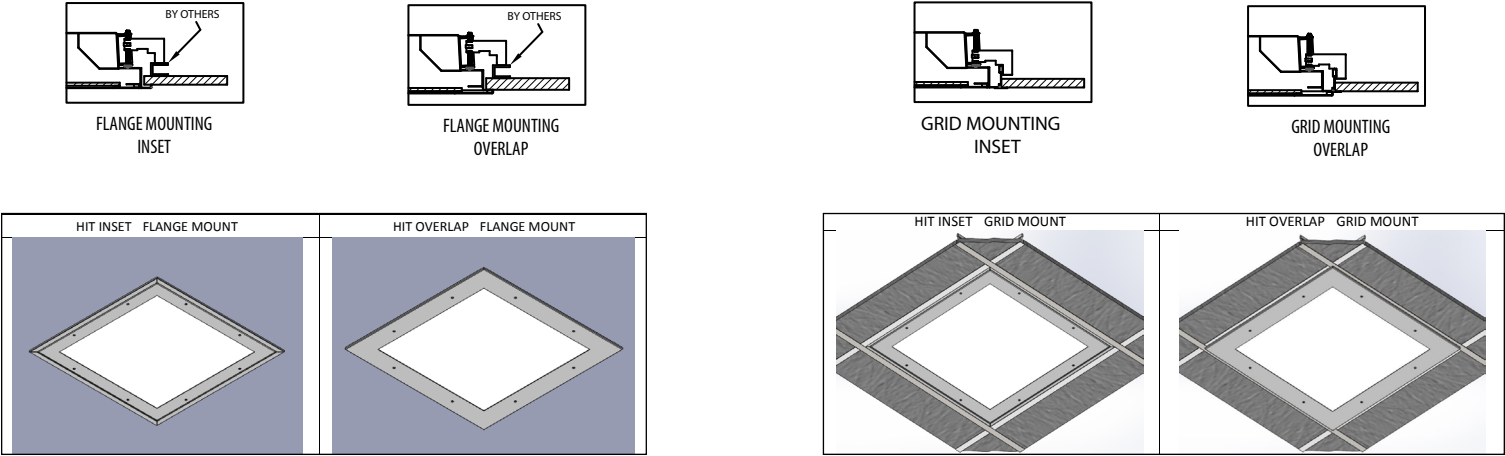
MOUNTING DATA

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

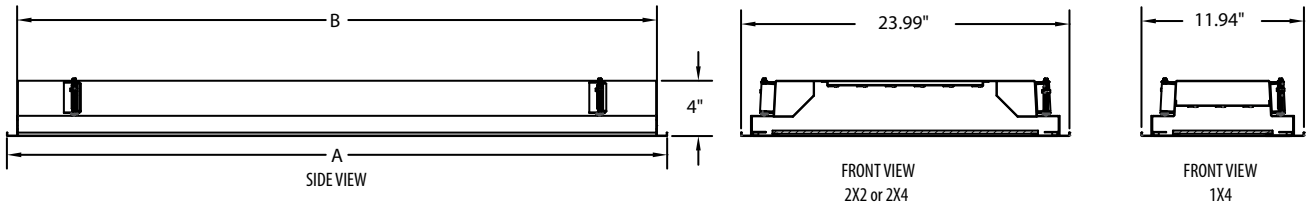


HIT AMB RED

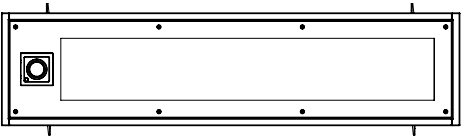
LED Recessed Cleanroom Troffer, Amber or Red LEDs

DIMENSIONS

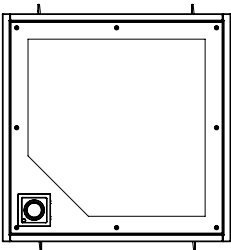
All dimensions are in inches (centimeters) unless otherwise indicated.
Dimensions may vary with options or accessories.



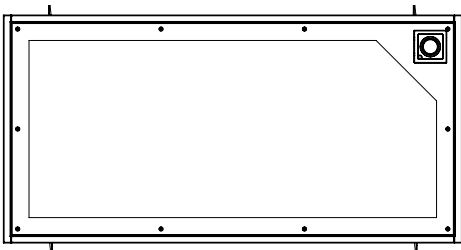
Series	Length	(A) Flange Length	(B) Housing Length
HIT	1X4	47.99"	46.93"
HIT	2X2	23.99"	22.92"
HIT	2X4	47.99"	46.92"



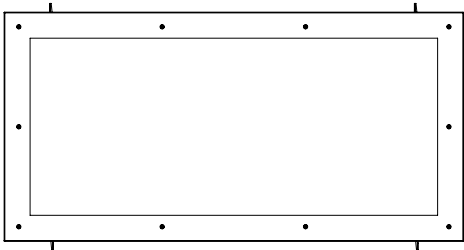
1X4 with Sensor, Inset Door Frame



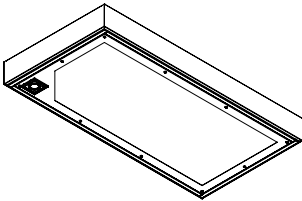
2X2 with Sensor, Inset Door Frame



2X4 with Sensor, Inset Door Frame



2X4 Overlap Door



2X4 with Sensor, Inset Door, Surface Mount Kit