HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS

Phuzion™
PHG LED High Bay

LED **DLC PREMIUM** **DLC LISTED** **A+ CAPABLE**

Description

The PHG LED luminaire is designed for light industrial applications where environments are less extreme, but comfortable, uniform lighting and dependable performance are still highly desired. Typical applications include manufacturing, warehouses, automotive, retail, food storage and gymnasiums. 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**.

Optics

- One-piece prismatic borosilicate glass reflector and refractor offer the highest levels of uniformity and glare-free performance in its class. Refractor protects LEDs from unwanted dust, helping to maintain delivered lumens.
- Borosilicate glass won't fade and offer the highest levels of luminosity over time.
- IP65 rated refractor protects LEDs from unwanted dust helps maintain delivered lumens.
- Prismatic acrylic available for food storage areas or where glass is not preferred.
- Prismpack® optic: Prismatic borosilicate optic with sealed aluminum cover to minimize dirt accumulation and improve optical efficiency. Use when uplight is not desired or required.

Mechanical

- Hands free wiring design allows for quick and easy installations.
- Open ventilated design naturally pulls heat up and away from luminaire, extending the life of critical components.
- Robust cast aluminum heat sink (0.6% CU content) and offset aluminum electrical compartment maximize thermal performance.
- Ambient range -40°F (-40°C) up to 131°F (55°C) ambient rating.
- Super durable TGIC thermoset powder coat finish provides 1500 hours salt fog rating.

Electrical

- Standard 0-10volt dimming.
- Fault-tolerant LED light engine.
- Luminaire Surge Protection Level: Designed to withstand up to 6kV/3kA per ANSI C82.77-5-2015.
- CCT: 3000K, 3500K, 4000K, 5000K.
- CRI: 70CRI, 80CRI & 90CRI.
- Dynamic temperature sensing is standard to protect the electronic components in the event the maximum operating ambient temperature is exceeded.

Wireless Networking

nLight® AIR is the ideal solution for retrofit or new construction spaces where additional wiring can be labor intensive. It is available with or without an integral sensor. Integrated smart sensors or dimming and switching modules must be part of each luminaire in the nLight Air network, which can be grouped to control multiple luminaires. It pairs to other luminaires and wall switches through our mobile app. CLAIRITY PRO, which allows for simple sensor adjustment. The granularity of control with the digital PIR occupancy detection and daylight sensing makes this a great solution for any application.

Listings

- CSA Certified to UL and C-UL standards for ambient temperatures ranging from -40°F (-40°C) up to 131°F (55°C).
- NOM certified.
- DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

Warranty

5-year limited warranty. 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.

Typical Applications

- Light Manufacturing
- Warehousing
- Retail
- Food Storage
- Automotive
- Gymnasium

Dimensions: *Inches (millimeters) unless otherwise noted.*

Diameter: 19.8"
Height: 12.65"
Weight: Glass 29 lbs., Acrylic 17 lbs.
Emergency Internal: Add 10.5 lbs.

A+ Capable Luminaire

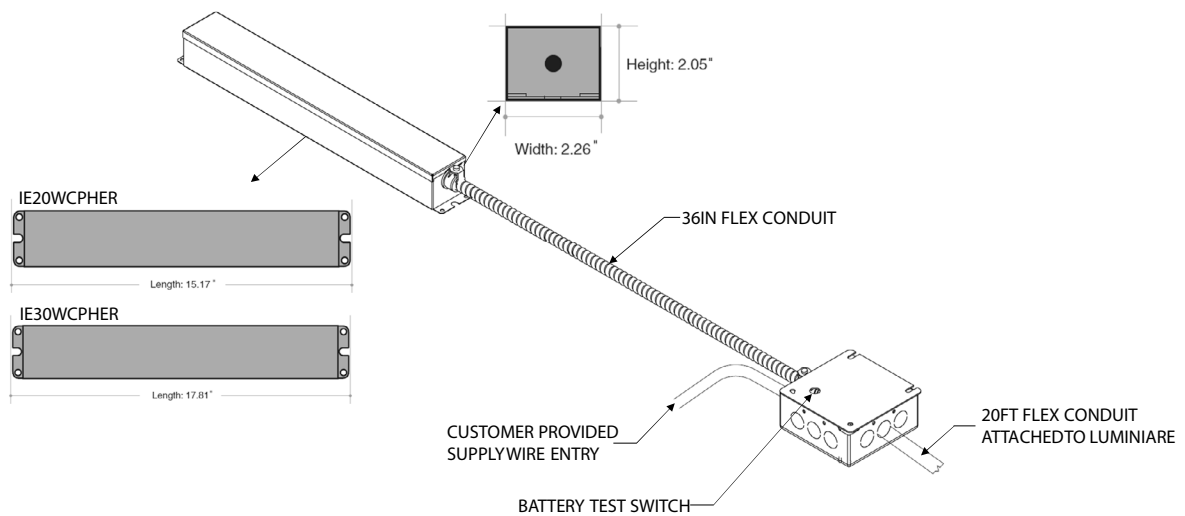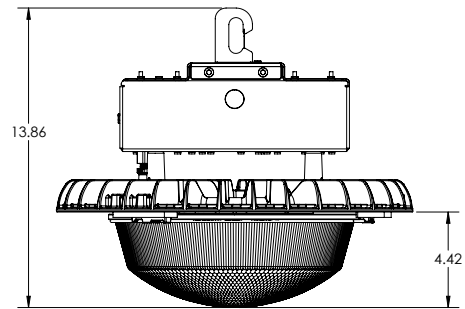This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and out-of-the-box control compatibility with simple commissioning.

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

To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

DIMENSIONAL DATA

IE20WCPHER
Length: 15.17″

IE30WCPHER
Length: 17.81″

Height: 2.05″

Width: 2.26″

36IN FLEX CONDUIT

20FT FLEX CONDUIT
ATTACHED TO LUMINIARE

CUSTOMER PROVIDED
SUPPLY WIRE ENTRY

BATTERY TEST SWITCH

HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS

A+ Capable options indicated by this color background.
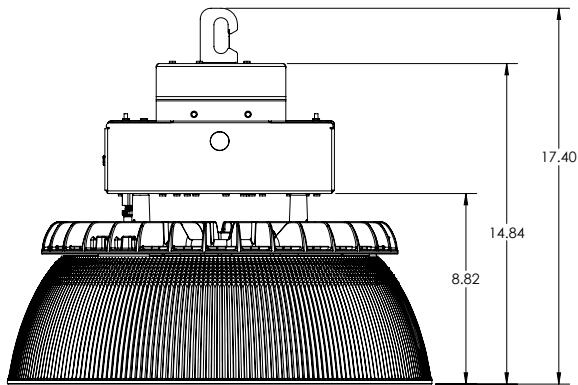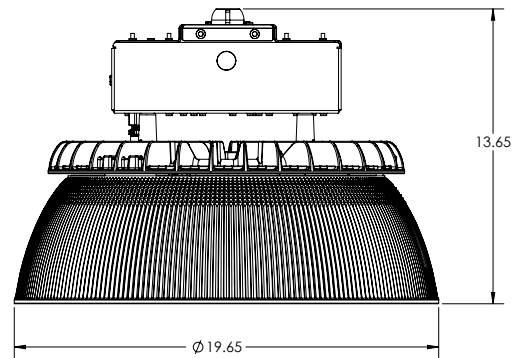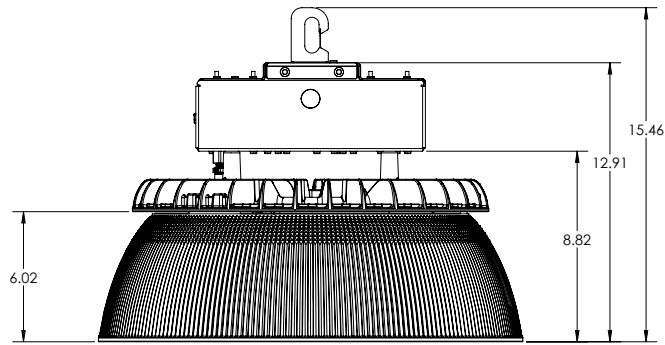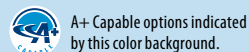
ORDERING INFORMATION ‡

Example: PHG 24000LM SEF NGG MVOLT 40K 80CRI WHK DWHXD

Series	Lumens ‡		Performance package		Optical Assembly				Voltage	
PHG	9000LM	9,000 nominal lumens	SEF	Standard efficiency	NGG	Narrow glass refractor and glass reflector	NGAFR	Frosted narrow glass refractor and acrylic reflector	MVOLT	Auto sensing (120-277)
	12000LM	12,000 nominal lumens	HEF	High efficiency	MGG	Medium glass refractor and glass reflector	MGAFR	Frosted medium glass refractor and acrylic reflector	HVOLT	Auto sensing (347/480) ‡
	15000LM	15,000 nominal lumens			WGG	Wide glassrefractor and glass reflector	WGAFR	Frosted narrow glass refractor and acrylic reflector	XVOLT	Auto sensing (277-480V) ‡
	18000LM	18,000 nominal lumens			NGGFR	Frosted narrow glass refractor and glass reflector	NGLR	Narrow glass refractor, no reflector	120	120V
	24000LM	24,000 nominal lumens			MGGFR	Frosted medium glass refractor and glass reflector	MGLR	Medium glass refractor, no reflector	208	208V
	30000LM	30,000 nominal lumens			WGGFR	Frosted wide glass refractor and glass reflector	WGLR	Wide glass refractor, no reflector	240	240V
	36000LM	36,000 nominal lumens			NAA	Narrow acrylic refractor and acrylic reflector	MALR	Medium acrylic refractor, no reflector	277	277V
					WAA	Wide acrylic refractor and acrylic reflector	NGGAL	Prismpack® Narrow glass reflector with aluminum cover and glass refractor	347	347V
					NGA	Narrow glass refractor and acrylic reflector	MGGAL	Prismpack® Medium glass reflector with aluminum cover and glass refractor	480	480V
					MGA	Medium glass refractor and acrylic reflector	WGGAL	Prismpack® Wide glass reflector with aluminum cover and glass refractor	277X	277V ‡
					WGA	Wide glass refractor and acrylic reflector			347X	347V ‡
									480X	480V ‡

Color temperature		Color rendering index	Mounting		Options				
30K	3000K CCT	70CRI	WHK	Wire hook	**Individual Sensors: ‡**		**nLight Wired: ‡**		
35K	3500K CCT	80CRI	PM	Pendant 3/4" female	LSXR50	Passive infrared indoor occupancy sensor, high bay aisleway, default time delay 10 minutes (with minimum 15 minutes on time LINK) ‡	nPP16 D	nLight dimming & switching module LINK ‡	
40K	4000K CCT	90CRI	QD	Quick disconnect ‡					
50K	5000K CCT		NDT	Non-disconnect thru-wire	LSXR50 HL	Passive infrared indoor occupancy sensor, high mount aisleway, minimum dim level of driver, default time delay 10 minutes (with minimum 15 minutes on time LINK)	**nLight Wireless: ‡**		
			QR	Quick disconnect retrofit ‡			NLTAIR2 RLSXR6	nLight AIR Generation 2 enabled 360° high mount sensor LINK ‡	
			QN	Non-disconnect retrofit ‡	LSXR50 P	Passive infrared indoor occupancy sensor, high bay aisleway, switching photocell on/off LINK ‡	NLTAIR2 RLSXR6 EM	nLight AIR Generation 2 enabled 360° high mount sensor with emergency relay (not available with battery pack LINK) ‡	
			AC10	10' aircraft cables (ships as pair)	LSXR6	Passive infrared indoor occupancy sensor, high mount 360°, default time delay 10. minutes (with minimum 15 minutes on time LINK) ‡	NLTAIR2 RLSXR10	nLight AIR Generation 2 enabled 360° low mount sensor LINK ‡	
			AC20	20' aircraft cables (ships as pair)			NLTAIR2 RLSXR10 EM	nLight AIR Generation 2 enabled 360° low mount sensor with emergency relay (not available with battery pack LINK) ‡	
					LSXR6 HL	Passive infrared indoor occupancy sensor, high mount 360°, minimum dim level of driver, default time delay 10 minutes (with minimum 15 minutes on time LINK) ‡			
							NLTAIR2 rPP20 D	nLight AIR Generation 2 enabled dimming and switching module LINK ‡	
					LSXR6 P	Passive infrared indoor occupancy sensor, high mount 360°, switching photocell (on/off) default time delay 10 minutes (with minimum 15 minutes on time LINK) ‡	NLTAIR2 rPP20 D ER	nLight AIR Generation 2 enabled dimming and switching module with emergency relay (not available with battery pack LINK) ‡	
					LSXR10	Passive infrared indoor occupancy sensor, low mount 360°, default time delay 10. minutes (with minimum 15 minutes on time LINK) ‡	NLTAIR2 rPP20 D EM	nLight Generation 2 enabled dimming and switching module with emergency relay (not available with battery pack LINK) ‡	
					LSXR10 HL	Passive infrared indoor occupancy sensor, low mount 360°, minimum dim level of driver, default time delay 10 minutes (with minimum 15 minutes on time LINK) ‡	NLTAIR2 RIO	nLight AIR (wireless) gen 2 control device (dimming & switching LINK) ‡	
					LSXR10 P	Passive infrared indoor occupancy sensor, low mount 360°, switching photocell (on/off) default time delay 10 minutes (with minimum 15 minutes on time LINK) ‡	**X-point Wireless: ‡**		
							XAD	XPoint™ wireless enabled LINK ‡	
							XAD924	XPoint™ Wireless 0-10V relay, internal, lower max ambient, meets UL924 LINK ‡	
					LSX45 OCC BTP LT	360° High mount occ. sensor, pre-wired, Bluetooth LINK ‡	XPA CMRB6	XPoint™ wireless enabled with photocell sensor & occupancy sensor LINK ‡	
					LSX45 HL BTP LT	360° High mount sensor w/HL default, pre-wired, Bluetooth LINK ‡			
					LSX45 ADC BTP LT	360° High mount sensor w/ADC default, pre-wired, Bluetooth LINK ‡	**Other Controls: ‡**		
					LSX45 ANL BTP LT	360° High mount sensor w/ANL default, pre-wired, Bluetooth LINK ‡	AO	Field adjustable output dimming ‡	

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart. Options are sorted alphanumerically.

ORDERING INFORMATION (cont'd.) ‡

Options (continued)		Finish	
Cordsets: ‡		DGXD	Gray, super durable
CPTL16W	6ft white cord with NEMA twist lock plug, 15 amp, 16 gauge, 3 conductor	DWHXD	White, super durable
CPTL20A16W	6ft white cord with NEMA twist lock plug, 20 amp, 16 gauge, 3 conductor	DNXD	Satin nickel, super durable
CPSB16W	6ft white cord with NEMA straight blade plug, 15 amp, 16 gauge, 3 conductor	DBXD	Black, super durable
CNP16W	6ft white cord no plug, 16 gauge, 3 conductor	DGRXD	Graphite, super durable
CNP164CW	6ft white cord no plug, 16 gauge, 4 conductor		
CNP165CDW	6ft white cord no plug, 16 gauge, 5 conductors that include low voltage dimming wires		
PHCB	Powerhook cord for 120-277, 347V		
PHCBL8480	Powerhook cord for 480V		
OCS	RELOC® OnePass® selectable cable 6', 3 conductor, factory installed		
UPH35	Thru wire power hook, must specify voltage		
UPH36	Pendant power hook, must specify voltage		

Other options:	
HKMAR	Anti-rotational hook, 3/4" male (PF-129) ‡
LPMD	Loop, 3/4" male (PF-105) ‡
HKMD	Safety hook, 3/4" male (PF-121-A) ‡
HK455	Safety hook aluminum, 3/4" male ‡
WGX	Wireguard
SCK36	36" safety chain
SCK72	72" safety chain
SCK120	120" safety chain
E10WMCP	10W emergency battery pack, Certified in CA Title 20 MAEDBS ‡
E15WMCP	15W emergency battery pack, Certified in CA Title 20 MAEDBS ‡
IE20WCPHE	20W emergency battery pack, Certified in CA Title 20 MAEDBS ‡
IE30WCPHE	30W emergency battery pack, Certified in CA Title 20 MAEDBS ‡
IE20WCPHER	Remote Iota 20W emergency battery pack, Certified in CA Title 20 MAEDBS ‡
IE30WCPHER	Remote Iota 30W emergency battery pack, Certified in CA Title 20 MAEDBS ‡
IE18WCPHECW	Iota 18W emergency battery pack, cold weather, Certified in CA Title 20 MAEDBS ‡
ETS	Generator transfer device ‡
GRR	Rod and ring optic assembly ‡
NSG	Non-silicone gaskets
SPD	Secondary surge device, 10kV ‡
USPOM	Assembled in USA

Accessories: *Order as separate catalog number.*			
PHGCHAIN3	3ft safety chain	LPFD	Safety loop 3/4" female (PF-116-A)
PHGCHAIN6	6ft safety chain	HKFD	Safety hook 3/4" female (PF-122-A)
PHGCHAIN10	10ft safety chain	HKMAR	Safety anti-rotational hook, 3/4" male (PF-129-A)
PHGWGA	Wireguard	LPMD	Safety loop 3/4" male (PF-105-B)
UPH 35 SM *** WH	Thru-wire, must specify voltage. Available with 120, 208, 240, 277, 348V. Need PHCB option on luminaire	HKMD	Safety hook, 3/4" male (PF-121-A)
UPH 36 PM *** WH	Pendant, must specify voltage. Available with 120, 208, 240, 277, 348V. Need PHCB option on luminaire	HK455	Safety hook aluminum, 3/4" male
UPH 35 SM L8480 WH	Thru-wire. Available with 480 voltage only. Need PHCBL8480 option on luminaire	HAC10	10' aircraft cables (ships as pair)
UPH 36 PM L8480 WH	Pendant. Available with 480 voltage only. Need PHCBL8480 option on luminaire	HAC20	20' aircraft cables (ships as pair)

NOTE: ‡ indicates option chosen has ordering restrictions. Please reference ordering restrictions chart, page 5. Options are sorted alphanumerically.

Option value	Restriction
277X	Utilizes Xvolt Driver. Ships standard with 10kV surge protection. Not available with rIO or LSX BTP controls.
347X	Utilizes Xvolt Driver. Ships standard with 10kV surge protection. Not available with rIO or LSX BTP controls.
480X	Utilizes Xvolt Driver. Ships standard with 10kV surge protection. Not available with rIO or LSX BTP controls.
Cordsets	Nomenclature shown is for white 6' cords. Cords are also availabe in black and in 3,10,12,15,20, and 25 foot lengths. To order black remove the W from the nomenclture. EX. CPTL16. To order different lengths add XFT to nomenclature. EX. CPTLW10FT. CPSB and CPTL option are not available with MVOLT, HVOLT, or XVOLT. Cords with plugs are not available with battery packs. Order CNP164CW (4 conductor) cord set when unswitched hot is required for charging emergency battery pack.
E10WMCP	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. Not available with ETS or ER controls. When ordered with cord set, order 4C option if unswitched hot is required for battery pack. When ordered with 36000lm package, fixture will utilize top battery box.
E15WMCP	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. Not available with ETS or ER controls. When ordered with cord set, order 4C option if unswitched hot is required for battery pack. When ordered with 36000LM package, fixture will utilize top battery box.
ETS	MVOLT, 120, 208, 240, 277, 277X only. Ships standard with SPD. Not available with control options.
GRR	Not available with NGLR, MGLR, WGLR, or MALR less reflector options.
HK455	Not available with PM option.
HKMAR	Not available with PM option.
HKMD	Not available with PM option.
HVOLT	Ships standard with 10kV surge protection.
IE18WCPCW	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. Not available with ETS or ER controls. When ordered with cord set, order CNP164CW option if unswitched hot is required for charging battery pack. When ordered with 36000LM package, fixture will utilize top battery box.
IE20WCPHE	Available with HVOLT, 347, 480, 347X, 480X. Ships standard with SPD. Not available with ETS or ER controls. When ordered with cord set, order CNP164CW option if unswitched hot is required for charging battery pack.
IE20WCPHER	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. Not available with ETS or ER controls. When ordered with cord set, order CNP164CW option if unswitched hot is required for charging battery pack. When ordered with 36000LM package, fixture will utilize top battery box.
IE30WCPHE	Available with HVOLT, 347, 480, 347X, 480X. Ships standard with SPD. Not avaliable with ETS or ER controls. When ordered with cord set, order CNP164CW option if unswitched hot is required for charging battery pack.
IE30WCPHER	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. Not available with ETS or ER controls. When ordered with cord set, order CNP164CW option if unswitched hot is required for charging battery pack. When ordered with 36000LM package, fixture will utilize top battery box.
Individual sensors	Not available with any other control option. Ships standard with SPD option.
LPMD	Requires PM mounting option.
LSX45 ACD BTP LT	Not available with XVOLT, 277X, 347X, 480X. ER versions that ship standard with the ETS are also available. EX LSX ACD BTP LT ER
LSX45 ANL BTP LT	Not available with XVOLT, 277X, 347X, 480X. ER versions that ship standard with the ETS are also available. EX LSX ANL BTP LT ER
LSX45 HL BTP LT	Not available with XVOLT, 277X, 347X, 480X. ER versions that ship standard with the ETS are also available. EX LSX HL BTP LT ER
LSX45 OCC BTP LT	Not available with XVOLT, 277X, 347X, 480X. ER versions that ship standard with the ETS are also available. EX LSX OCC BTP LT ER
LSXR10	Ships standard with SPD. If ER option is required add ER to nomenclature. EX LSXR10 ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord set options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LSXR10 HL	Ships standard with SPD. Available with 3 wire cord options only when cord set option is required. If ER option is required add ER to nomenclature. EX LSXR10 HL ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord sets options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LSXR10 P	Ships standard with SPD. Available with 3 wire cord options only when cord set option is required. If ER option is required add ER to nomenclature. EX LSXR10 P ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord sets options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LSXR50	Ships standard with SPD. If ER option is required add ER to nomenclature. EX LSXR50 ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord set options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LSXR50 HL	Ships standard with SPD. Available with 3 wire cord options only when cord set option is required. If ER option is required add ER to nomenclature. EX LSXR50 HL ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord sets options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LSXR50 P	Ships standard with SPD. Available with 3 wire cord options only when cord set option is required. If ER option is required add ER to nomenclature. EX LSXR50 P ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord sets options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LSXR6	Ships standard with SPD. If ER option is required add ER to nomenclature. EX LSXR6 ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord set options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LSXR6 HL	Ships standard with SPD. Available with 3 wire cord options only when cord set option is required. If ER option is required add ER to nomenclature. EX LSXR6 HL ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord sets options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LSXR6 P	Ships standard with SPD. Available with 3 wire cord options only when cord set option is required. If ER option is required add ER to nomenclature. EX LSXR6 P ER ER version utilizes IOTA ETS device, not available with emergency battery options or cord sets options. ER version is available with MVOLT, 120, 208, 240, 277, 277X.
LUMENS	See Ambient chart for ambient ratings.
NDT	Not available with emergency battery pack options.
nLight Wired	Not available with any other control option. Ships standard with SPD option.
nLight Wireless	Not available with any other control option. Ships standard with SPD option.
NLTAIR2 rIO	Not available with XVOLT, 277X, 347X, 480X.
NLTAIR2 rIO ER	Not available with HVOLT, 347. 480. XVOLT, 347X, or 480X. Ships standard with SPD. Utilizes Iota ETS device. Not available with battery pack options.
NLTAIR2 RLSXR10 ER	Not available with HVOLT, 347. 480. XVOLT, 347X, or 480X. Ships standard with SPD. Utilizes Iota ETS device. Not available with battery pack options.
NLTAIR2 RLSXR6 ER	Not available with HVOLT, 347. 480. XVOLT, 347X, or 480X. Ships standard with SPD. Utilizes Iota ETS device. Not available with battery pack options.
nPP16 D	Available with 120, 277, or 347 volt only. Ships standard with SPD.
Other controls	Not available with any other control option.
QD	Not available with emergency battery pack options.
QN	Shipped without top hanger. Not available with emergency battery packs. For existing product only (retrofit).
QR	Shipped without top hanger. Not available with emergency battery pack options. For existing product only (retrofit).
SPD	Not available with HVOLT or XVOLT. Not available with LSXR, RLSXR, NPP16D, RPP20D, E10WMCP, E15WMCP, IE20WCPHE, IE30WCPHE, IE20WCPHER, IE30WCPHER, IE18WCPHECW.
XAD	Not available with HVOLT, XVOLT. 347, 480, 347X, 480X Utilizes Transformer. Ships standard with SPD.
XAD924	Not available with HVOLT, XVOLT, 347, 480, 347X, 480X Utilizes Transformer. Ships standard with SPD.
XPA CMRB6	Not available with HVOLT, XVOLT. 347, 480, 347X, 480X Utilizes Transformer. Ships standard with SPD.
X-point Wireless	Not available with any other control option. Ships standard with SPD option.
XVOLT	Utilizes Xvolt Driver. Ships standard with 10kV surge protection. Not available with rIO or LSX BTP controls.

Option Value Ordering Restrictions

PRODUCT DATA

LAT

Ambient Temp	25C	30C	35C	40C	45C	50C	55C	100%
LAT Multiplier	1.00	0.99	0.99	0.98	0.97	0.97	0.96	99%

FAO

FAO Position	% Lumen Output	% Wattage
1	37%	37%
2	47%	46%
3	62%	61%
4	74%	73%
5	86%	85%
6	100%	100%
7	100%	100%
8	100%	100%

OPERATING AMBIENT CHART

Lumen	Standard	LSXR, rLSXR, LSX BTP, SBOR, rSBOR	rIO	NPP16 D	RPP20 D	ETS	XAD	XPA CMRB
9000	55 C	55 C	55 C	35 C	45 C	35 C	45 C	45 C
12000	55 C	55 C	55 C	35 C	45 C	35 C	45 C	45 C
15000	55 C	55 C	55 C	35 C	45 C	35 C	45 C	45 C
18000	55 C	55 C	55 C	35 C	45 C	35 C	45 C	45 C
24000	55 C	55 C	55 C	35 C	45 C	35 C	30 C	45C
30000	55 C	55 C	55 C	35 C	45 C	35 C	30 C	45C
36000	50 C	50 C	50 C	35 C	45 C	35 C	30 C	45C

Lumen	E10WMCP E15WMCP	IE18WCPHECW	IE20WCPHE IE30WCPHE	IE20WCPHER IE30WCPHER
9000	25 C	30 C	30 C	55 C (remote mount)
12000	25 C	30 C	30 C	55 C (remote mount)
15000	25 C	30 C	30 C	55 C (remote mount)
18000	25 C	30 C	30 C	55 C (remote mount)
24000	25 C	30 C	30 C	55 C (remote mount)
30000	25 C	30 C	30 C	55 C (remote mount)
36000	25 C	30 C	30 C	50 C (remote mount)

Nominal Emergency Lumens

SEF	E10WMCP	E15WMCP	IE18WCPHECW	IE20WCPHE/R	IE30WCPHE/R
9000	1808	2622	3077	3689	5385
12000	1812	2627	3083	3696	5394
15000	1775	2587	3044	3611	5289
18000	1773	2583	3040	3606	5282
24000	1800	2630	3099	3752	5436
30000	1834	2680	3159	3824	5541
36000	1861	2724	3213	3872	5617

HEF	E10WMCP	E15WMCP	IE18WCPHECW	IE20WCPHE/R	IE30WCPHE/R
9000	1915	2777	3258	3910	5708
12000	1876	2734	3217	3818	5594
15000	1860	2713	3194	3793	5570
18000	1967	2873	3386	3995	5866
24000	1960	2864	3375	4087	5922
30000	2022	2959	3491	4208	6105
36000	1959	2870	3387	4068	5908

PRODUCT DATA

OPERATIONAL DATA

PHG SEF	Lumen Package	Wattage (120V)	Lumen Output	LPW
SEF 5000K, 80CRI MGG	9000 LM	59	9257	157
	12000 LM	81	12252	152
	15000 LM	101	15173	150
	18000 LM	123	17944	145
	24000 LM	158	24306	154
	30000 LM	201	30539	152
	36000 LM	237	36453	154

PHG HEF	Lumen Package	Wattage (120V)	Lumen Output	LPW
HEF 5000K, 80CRI MGG	9000 LM	55	9232	169
	12000 LM	75	12310	165
	15000 LM	94	15069	161
	18000 LM	108	18254	170
	24000 LM	144	24471	170
	30000 LM	178	31068	174
	36000 LM	219	36538	167

LUMEN MAINTENANCE

Projected Lumen Maintenance - PHG 24L SEF						
Ambient	0	15,000	30,000	45,000	60,000	100,000
25° C	1.00	0.97	0.94	0.91	0.89	0.82

Projected Lumen Maintenance - PHG 24L HEF						
Ambient	0	15,000	30,000	45,000	60,000	100,000
25° C	1.00	0.97	0.95	0.93	0.9	0.85

SCALING FACTOR TABLES

CCT/CRI Multipliers			
SEF	70 CRI	80 CRI	90 CRI
5000K	1.06	1.00	0.88
4000K	1.05	0.98	0.86
3500K	1.03	0.96	0.81
3000K	1.02	0.94	0.78

CCT/CRI Multipliers			
HEF	70 CRI	80 CRI	90 CRI
5000K	1.00	1.00	0.83
4000K	0.99	0.98	0.82
3500K	0.97	0.93	0.80
3000K	0.96	0.92	0.77

| Optic	Multipler
NA	1.06
WAA	1.05
NAA	1.04
MG	1.03
WG	1.03
NG	1.03
WGA	1.02
MGA	1.02
WGG	1.00
MGG	1.00
NGA	1.00
NGG	0.98
NGAFR	0.91
WGGAL	0.90
MGAFR	0.89
MGGAL	0.89
NGGFR	0.87
NGGAL	0.86
MGGFR	0.86
WGAFR	0.84
WGGFR	0.81

CORD SETS WITH EMERGENCY WIRING DETAILS

When battery is ordered with a 4-conductor cord set or Reloc® cord (OCS4C):
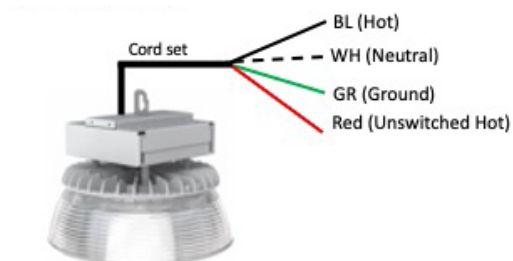
The 4 conductor cord set will include include the hot (BL), neutral (WH), and ground (GR) conductors AND the unswitched hot will be a separate conductor (RED).

Note: To get IBG wired from the factory for 24/7 operation, with on/off controlled by sensor rather than switch, contact your factory representative to request the normal hot and unswitched hot wired together in the fixture. Consult local codes to determine if this is allowable.

When ETS is used (individually or on ER sensor) with a 3-conductor cord set or Reloc® cord (OCS):
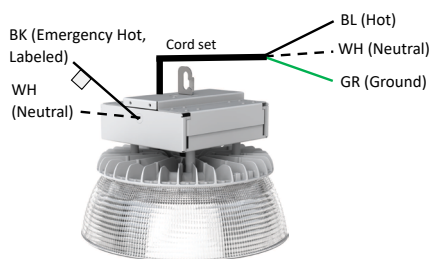
The 3 conductor cord set will include the hot (BL), neutral (WH), and ground (GR) conductors but not the dedicated hot and neutral for emergency function

- The emergency hot (BK) and neutral (WH) will exit the fixture out of the KO of the end plate.
- If KO-mounted sensor is included, the emergency hot and neutral will come out of opposite end plate KO.

EMERGENCY OPERATION SCENARIOS

	Standard Sensor or Control Device (commonly used with Battery Pack Option)	EM Solution (Used when switching single incoming hot to generator power)	ER Solution (Used when switching to generator power via a 2nd hot lead)
Emergency Lighting Strategy	*Luminaire-integral battery pack and emergency driver *Generator transfer device	*Diesel genset emergency backup supply *Slow transfer inverter (>30ms) emergency backup supply	*Fast Transfer (FT) inverter emergency backup supply *Uninterruptible Power System (UPS) emergency
Recommended Control Device Option	*Not specifically listed for emergency use. *Wired such that a separately listed emergency device provides emergency lighting power and/or control during loss of normal power scenarios.	*UL924 listed *Utilizes Power Interruption Detection to initiate lighting control override during loss of normal power scenarios. *Requires power interruption > 30 ms to luminaire during transfer to emergency backup supply.	*UL924 listed *Utilizes dedicated Normal Power sensing leads to initiate lighting control override during loss of normal power scenarios. *Requires connections to both emergency and normal power circuits.

	Function	Sequence of Operations	Standard Sensor or Control Device	EM Solution (Generator 1 Hot)	ER Solution* (Generator 2 Hots)	IBG Standard Sensor Settings				
						Vacancy Time Out	Dim to Off Time Delay	High Trim	Low Trim	Photocell Set Point
Standalone Sensors (Individual control per fixture)	On/Off	Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout.	LSXR6	RLSXR6 OEX EM	LSXR6 ER	10 min	-	-	-	-
	High/Low (Off)	"Lights turn on to high trim when presence is detected; Upon vacancy, the lights dim to low trim after timeout and turn off after "Dim To Off"" Time Delay. For High/Low (Never Off) function, bypass the relay by bringing power directly into driver rather than wiring hot through LSXR device."	LSXR6 HL	-	LSXR6 HL ER	10 min	2.5 min	100%	"10% (Driver Low)"	-
	Photocell	Lights turn on unless ambient light level is above set point; If ambient light levels in the space exceed the photocell set point, lights will turn off even during occupancy.	LSXR6 P	-	LSXR6 P ER	-	-	-	-	4 fc
	Dimming + Photocell	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, the lights dim to low trim , then turn off after timeout; During occupancy, automatically raise and lower electric light level to maintain set point and turn off, depending on ambient light.	LSXR6 ADC	RLSXR6 ODP EM	LSXR6 ADC ER	10 min	2.5	-	-	4 fc
	Dimming + Photocell + High/Low	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, lights dim to low trim after timeout and remain at low trim until presence is detected; Automatically raise and lower electric light level to maintain set point during occupancy and during vacancy keeps lights at low trim if ambient light is not sufficient.	LSXR6 ANL	-	LSXR6 ANL ER	10 min	-	100%	10%	4 fc
	Note: For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". Ex. LSXR10 P.									

	Function	Sequence of Operations	Standard Sensor or Control Device	EM	ER	Vacancy Time Out	Dim to Off Time Delay	High Trim	Low Trim	Photocell Set Point
Bluetooth Sensors (Configurable via mobile Bluetooth app)	On/Off	Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout.	LSX45 OCC	-	LSX45 OCC BTP ER	10 min	-	-	-	-
	High/Low (Off)	Lights turn on to high trim when presence is detected; Upon vacancy, the lights dim to low trim after timeout and turn off after "Dim To Off" Time Delay.	LSX45 HL	-	LSX45 HL BTP ER	10 min	2.5 min	100%	10%	-
	Dimming + Photocell	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, the lights dim to low trim during timeout; During occupancy, automatically raise and lower electric light level to maintain set point and turn off, depending on ambient light.	LSX45 ADC	-	LSX45 ADC BTP ER	10 min	-	-	10%	50 fc
	Dimming + Photocell + High/Low (Never Off)	Lights turn on when presence is detected unless ambient light level is above set point; Upon vacancy, lights dim to low trim after timeout and remain at low trim until presence is detected; Automatically raise and lower electric light level to maintain set point during occupancy and during vacancy keeps lights at low trim if ambient light is not sufficient.	LSX45 ANL	-	LSX45 ANL BTP ER	10 min	-	100%	10%	50 fc

	Function	Sequence of Operations	Standard Sensor or Control Device	EM	ER	Vacancy Time Out	Dim to Off Time Delay	High Trim	Low Trim	Photocell Set Point
nLight wired Networked Controls	Dimming	Programmable On/Off control only with dimming - no sensor (device externally mounted to fixture access plate)	NPP16 D	-	NPP16 D ER	-	-	100%	1%	-
	Note: For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". Ex: RLSXR10									

	Function	Sequence of Operations	Standard Sensor or Control Device	EM	ER	Vacancy Time Out	Dim to Off Time Delay	High Trim	Low Trim	Photocell Set Point
nLight AIR Wireless Sensors	Dimming + Photocell + Occupancy	Wirelessly programmable network sensor - On/Off control with dimming, occupancy detection, and daylight harvesting (Sensor embedded in fixture)	NLTAIR2 RLSXR45	NLTAIR2 RLSXR6 EM	NLTAIR2 RLSXR45 ER	7.5 min	-	100%	10%	50 fc
	Dimming	Wirelessly programmable On/Off control with dimming - no sensor (Device embedded in fixture)	NLTAIR2 RIO	NLTAIR2 RPP20 D EM	NLTAIR2 RIO ER	-	-	100%	10% (driver low)	-

*All ER solutions except nLight wired, include standard sensor or control device with a factory-installed --+Iota ETS##-DR (UL924 bypass device). This device is integral to the fixture and will include a hot and neutral lead for the dedicated emergency circuit.

Integrated Occupancy Sensor with Bluetooth® Programmability

- Programmable sensor settings over Bluetooth® with Acuity VLP smartphone app.
- Default programming options to service various application spaces - occupancy detection, 0-10V dimming and daylight harvesting.
- 360° High Mount and High Mount Aiselway lens detection options for mounting heights up to 40 ft.
- Integrated retractable lens mask included to block unwanted detection.
- Sensor ambient temperature rating of -40°F (-40°C) to 158°F (70°C).

❋ Bluetooth®

Bluetooth Default Programming

Model	Default Operation	LSXR Equivalent	Occupancy Time Delay	Photocell Mode	Photocell Set-point	Low Trim	High Trim	Dim to Off Time Delay
LSXxxx	On/Off Occupancy Only	LSXR6 LT or LA00STU	10 minutes	Disabled	n/a	n/a	100%	Disabled
LSXxxx HL	Occupancy w/ 0-10V Dimming (High/Low/Off)	LSXR6 HL LT or LAH0STU	10 minutes	Disabled	n/a	10%	100%	2.5 minutes
LSXxxx ADC	Occupancy w/ Dim & Switch Photocell	LSXR6 ADC LT or LAM0STU	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	0 seconds
LSXxxx ANL	Dim & Switch Photocell with High/Low Occupancy Operation	LSXR6 ANL LT or LAG0STU	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	Stay Dim/ Never Off

Note: Lens detection noted in place of 'xxx'

LSX45 COVERAGE PATTERNS

45- HIGH MOUNT 360°

- Optimized full coverage pattern for 10 – 40 ft. (3.1 – 12 m)
- Reliable detection of large motion (e.g. pedestrian walking traffic) up to 30 ft. (9.1 m) mounting height
- Reliable detection of extra-large motion (e.g. forklift traffic) up to 40 ft. (12 m) mounting height
- Stow-able rotating lens shield can be utilized to mask areas in which detection is not desired

SIDE VIEW

TOP VIEW
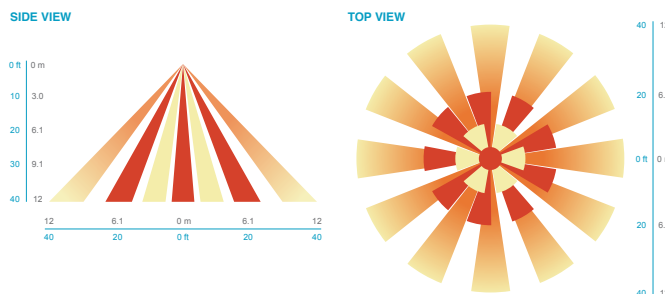
LSXR – Fixture Mount Occupancy Sensor (see

www.AcuityControls.com for additional information)

- Three interchangeable lens options to satisfy multiple mounting heights and coverage pattern requirements.
- Integrated mounting bracket drops lens down 3" from chase nipple.
- Single or dual relay versions — designed with robust protection from the harsh switching requirements of T5 and LED loads.
- Photocell and 0-10VDC dimming options.
- No PIR field calibration or sensitivity adjustments required.
- Sensor ambient temperature rating of 14°F (-10°C) to 131°F (55°C).

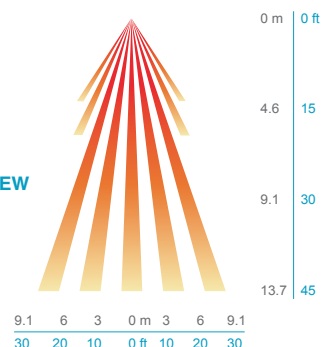# LSXR COVERAGE PATTERNS

HIGH MOUNT 360° LENS (#6)
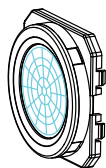
- Best choice for 15 to 45 ft (4.57 to 13.72 m) mounting heights
- 15 to 20 ft (4.57 to 6.10 m) radial coverage overlaps area lit by a typical high bay fixture
- Excellent detection of large motion (e.g. walking) up to a 35 ft (10.76 m) mounting height
- Excellent detection of extra large motion (e.g. forklifts) up to a 45 ft (13.72 m) mounting height
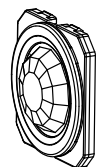
LOW VIEW

| 6 | 3 | 0 m | 3 | 6 |
| 20 | 10 | 0 ft | 10 | 20 |

0 ft | 0 m
15 | 4.6

HIGH VIEW

0 m | 0 ft
4.6 | 15
9.1 | 30
13.7 | 45

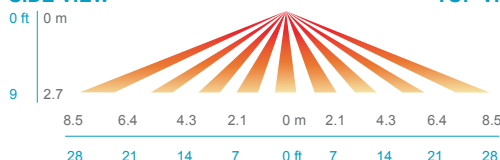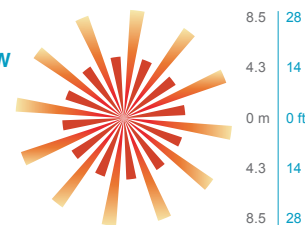| 9.1 | 6 | 3 | 0 m | 3 | 6 | 9.1 |
| 30 | 20 | 10 | 0 ft | 10 | 20 | 30 |
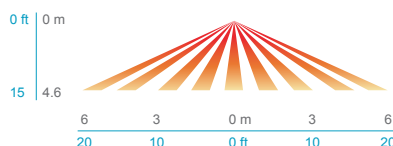
LOW MOUNT 360° LENS (#10)

- Best choice for large motion detection (e.g. walking)
- 360° conical shaped pattern
- Provides ~24 ft (7.32 m) radial coverage (~2000 ft2) when mounted at 9 ft (2.74 m)
- 7 to 15 ft (2.13 to 4.57 m) mounting heights provide 16 to 36 ft (4.88 to 10.97 m) radial coverage
- Detection range improves when walking across beams compared to into beams

SIDE VIEW

0 ft | 0 m
9 | 2.7

| 8.5 | 6.4 | 4.3 | 2.1 | 0 m | 2.1 | 4.3 | 6.4 | 8.5 |
| 28 | 21 | 14 | 7 | 0 ft | 7 | 14 | 21 | 28 |

TOP VIEW

8.5 | 28
4.3 | 14
0 m | 0 ft
4.3 | 14
8.5 | 28

COMPONENTS & OPTIONS DATA

XPoint wireless
Integrated wireless control technology connecting fixtures, sensors, and other modules together.

AO
Field adjustable output dimming.

nPP16D
nLight on/off, dim control.

nPP16D ER
nLight UL924 Emergency operation.