

# **Phuzion**<sup>™</sup>

PHG LED High Bay









Catalog Number

Notes

### 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. <u>Click here for Acrylic-Polycarbonate Compatibility table for suitable uses</u>. 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. <u>Click here for a list of substances that may</u> **not be suitable for interaction with LEDs and other** 

#### Optics

electronic components.

- 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<sup>®</sup> 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

#### Mechanica

- 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.
- Super durable TGIC thermoset powder coat finish provides 1500 hours salt fog rating.

#### Electrical

- 0-10V dimming driver is standard. Dims to 10%.
- Fault-tolerant LED light engine.
- XVOLT is an optional robust driver solution designed to assist with power quality issues and a dropped neutral in 277V input as derived from 480V Wye. Supports 277-480V; 6kV surge rated.

#### **Typical Applications**

- Light Manufacturing
- Warehousing
- Retail
- Food StorageAutomotive
- Gymnasium

- Standard Surge Protection Level: Designed to withstand up to 6kV/3kA per ANSI C82.77-5-2015.
- Optional Surge Protection Level: Designed to withstand up to 10kV/10kA per ANSI C82.77-5-2015, provided when ordered with any controls, emergency battery or when SPD is specified in the nomenclature.
- 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 meet US and Canadian standards.
- Suitable for use damp locations.
- -40°F (-40°C) up to 131°F (55°C) (see chart on page 6)
- 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 <u>www.designlights.org/QPL</u> to confirm which versions are qualified.

#### 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: <u>www.</u> <u>acuitybrands.com/support/warranty/terms-and-conditions</u>

**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.

# Standard 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<sup>®</sup> or XPoint<sup>™</sup> Wireless control networks marked by a shaded background\*

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

\*See ordering tree for details



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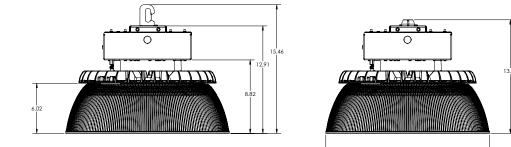
Dimensions: Inches (millimeters) unless otherwise noted. Diameter: 19.8" Height: 12.65" Weight: Glass 29 lbs., Acrylic 17 lbs. Emergency Internal: Add 10.5 lbs.

Туре

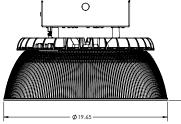
PHG LED High Bay



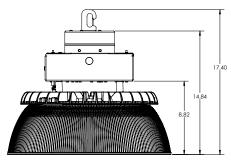
#### **DIMENSIONAL DATA**



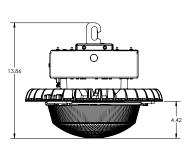
WHK Mounting (Wire Hook)



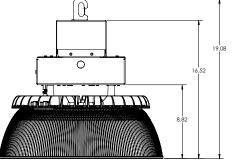
PM Mounting (Pendant)



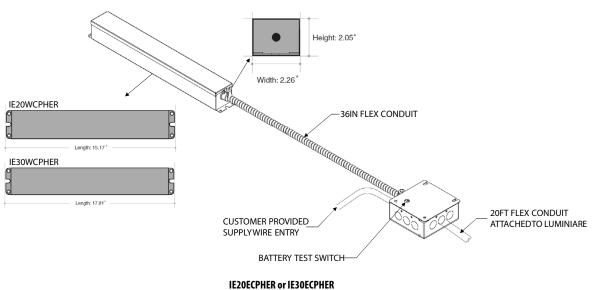
WHK Mounting (36000LM and E10WMCP or E15WMCP options) Top Battery Box



WHK Mounting (NGLR, MGLR, WGLR, **MALR options) No Reflector** 



WHK Mounting (IE20WCPHE or **IE30WCPHE options)** Top Battery Box



**Remote Emergency Batteries** 

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# A+ Capable options indicated by this color background.

## **ORDERING INFORMATION**<sup>‡</sup>

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

Series	Lumens <b>‡</b>	P	Perfori	mance package	Optical <i>I</i>	Assembly			Voltage	
PHG	9000LM         9,000 no           12000LM         12,000 no           12000LM         12,000 no           15000LM         12,000 no           18000LM         18,000 no           18000LM         24,000 no           24000LM         24,000 no           26000LM         26,000 no           1umens         30,000 no           36000LM         36,000 no           1umens         36,000 no	ominal H ominal ominal ominal ominal F ominal		Standard efficiency High efficiency	NGG MGG WGG NGGFR WGGFR NAA WAA NGA MGA WGA	Narrow glass refractor and glass reflector Medium glass refractor and glass reflector Wide glass refractor and glass reflector Frosted narrow glass refractor and glass reflector Frosted medium glass refractor and glass reflector Frosted wide glass refractor and glass reflector Narrow acrylic refractor and acrylic reflector Wide acrylic refractor and acrylic reflector Narrow glass refractor and acrylic reflector Medium glass refractor and acrylic reflector Medium glass refractor and acrylic reflector Wide glass refractor and acrylic reflector	NGAFR MGAFR WGAFR NGLR WGLR MALR NGGAL WGGAL	Frosted narrow glass refractor and acrylic reflector Frosted medium glass refractor and acrylic reflector Frosted narrow glass refractor and acrylic reflector Narrow glass refractor, no reflector Medium glass refractor, no reflector Wide glass refractor, no reflector Medium acrylic refractor, no reflector Prismpack® Narrow glass reflector Prismpack® Narrow glass reflector Prismpack® Medium glass reflector With aluminum cover and glass refractor Prismpack® Medium glass reflector With aluminum cover and glass refractor Prismpack® Wide glass reflector with aluminum cover and glass refractor	MVOLT 120 208 240 277 HVOLT 347 480 XVOLT 277X 347X 480X	Auto sensing (120- 277V, 50/60Hz) 120V, 50/60Hz 208V, 50/60Hz 240V, 50/60Hz Auto sensing (347- 480V, 50/60Hz) 480V, 50/60Hz ‡ 480V, 50/60Hz ‡ 277V, XV0LT driver, 50/60Hz ‡ 480V, XV0LT Driver, 50/60Hz ‡

Color temp	erature	Color rendering index	Mount	ting	Options			
30K	3000K CCT	70CRI	WHK	Wire hook	Non-Dimming Sen	sors: ‡	nLight® Wired: <b>‡</b>	
35K		80CRI	РМ	Pendant 3/4" female	LSXR6	360° High Mount PIR Sensor, (15-45' mounting heights), on/off occupancy (LINK)	NPP16 D	nLight <sup>®</sup> wired power/relay pack, 0-10VDC dimming output ( <u>LINK</u> )
40K 50K	4000K CCT 5000K CCT	90CRI	QD	Quick	LSXR10	360° Low Mount PIR Sensor, (7-15' mounting heights), on/off occupancy (LINK)	nLight® Air Wireless: NLTAIR2 RLSXR6	nLight® Air Generation 2 enabled, 360° high
	Sooncer		NDT	disconnect <b>‡</b> Non-disconnect	LSXR50	High Mount Aisleway PIR Sensor, (40' mounting height, detects 50' in either	NLTAIR2 RLSXR6 EM	mount sensor, (15 to 45' heights) (LINK) <b>‡</b> nLight <sup>®</sup> Air Generation 2 enabled, 360° high
			OR	thru-wire <b>‡</b> Ouick disconnect	LSXR6 P	direction), on/off occupancy ( <u>LINK</u> ) 360° High Mount PIR Sensor, (15–45' mounting		mount sensor, (15 to 45' heights), UL 924 Emergency Operation via power interrupt
			QK	retrofit <b>‡</b>	LSXR10 P	heights), on/off switching photocell (LINK) 360° Low Mount PIR Sensor, (7-15' mounting		detection (not available with battery pack) (LINK) ‡
			NR	Non-disconnect retrofit <b>‡</b>		heights), on/off switching photocell (LINK)	NLTAIR2 RLSXR6 ER	nLight <sup>®</sup> Air Generation 2 enabled, 360° high mount sensor, (15 to 45' heights), UL 924
			AC10	10' aircraft cables (ships as pair)	LSXR50 P	High Mount Aisleway PIR Sensor, (40' mounting height, detects 50' in either direction), on/off switching photocell (LINK)		Emergency Operation utilizing lota ETS (not available with battery pack) (LINK) ‡
			AC20		Dimming Sensors:	ŧ	NLTAIR2 RLSXR10	nLight <sup>®</sup> Air Generation 2 enabled, 360° low mount sensor, (7 to 15' heights) (LINK) <b>‡</b>
				(ships as pair)	LSXR6 HL	360° High Mount PIR Sensor, (15-45' mounting heights), high/low/off occupancy operation (LINK)	NLTAIR2 RLSXR10 EM	nLight <sup>®</sup> Air Generation 2 enabled, 360° low mount sensor, (7 to 15' heights), UL 924
					LSXR10 HL	360° Low Mount PIR Sensor, (7-15' mounting heights), high/low/off occupancy operation (LINK)		Emergency Operation via power interrupt detection (not available with battery pack) (LINK) ‡
					LSXR50 HL	High Mount Aisleway PIR Sensor, (40' mounting height, detects 50' in either direction), high/low/off occupancy operation (LINK)	NLTAIR2 RLSXR10 ER	nLight® Air Generation 2 enabled, 360° low mount sensor, (7 to 15' heights), UL 924 Emergency Operation utilizing lota ETS (not available with battery pack) (LINK) ‡
					<u>Bluetooth® Sensor</u>	<u>s:</u> ‡	NLTAIR2 RIO	nLight <sup>®</sup> Air Generation 2 enabled, fixture embedded, 0-10V dimming output (LINK) <b>‡</b>
						360° High Mount Sensor, (10-40' mounting heights), on/off occupancy, utilizes smart hub for Bluetooth® programmability, low temp/ high humidity (LINK)	NLTAIR2 RIO ER	nLight® Air Generation 2 enabled, fixture embedded, 0-10V dimming output, UL 924 Emergency Operation utilizing lota ETS (not available with battery pack) (LINK) ‡
					LSX45 HL BTP LT	360° High Mount Sensor, (10-40' mounting heights), high/low/(off) occupancy dimming, utilizes smart hub for Bluetooth®	NLTAIR2 RPP20 D	nLight <sup>®</sup> air Generation 2 enabled, power/ relay pack, 0-10V dimming output (LINK) <b>‡</b>
						programmability, low temp/high humidity (LINK)	NLTAIR2 RPP20 D EM	nLight® air Generation 2 enabled, power/ relay pack, 0-10V dimming output, UL924 EM operation via power interrupt detection
					LSX45 ADC BTP LT	360° High Mount Sensor, (10-40' mounting heights), on/off occupancy with auto dimming photocell, utilizes smart hub for Bluetooth® programmability, low temp/high humidity	NLTAIR2 RPP20 D ER	(not available with battery pack) (LINK) ‡ nLight <sup>®</sup> Air Generation 2 enabled, power/ relay pack, 0-10V dimming output, UL 924
						( <u>LINK</u> )		Emergency Operation utilizing lota ETS (not available with battery pack) (LINK) ‡
					LON4O AINL BIP LI	360° High Mount Sensor, (10-40' mounting heights), high/low/(off) occupancy dimming with auto dimming photocell, utilizes smart hub for Bluetooth® programmability, low temp/high humidity (LINK)	<u>Other Controls:</u> AO	Adjustable output (step dimming) ‡



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## ORDERING INFORMATION (cont'd.) **‡**



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Options (con	tinued)			Finish	
	n Cord Sets: <b>‡</b>	Emergency:		DGXD	Gray, super
CPSB16W	Cord with 15-amp NEMA straight blade plug, 16-gauge, 3 conductors, white, 6ft (120V only) <b>‡</b>	E10WMCP	Power Sentry® PS1055MCP, 10 watt internal constant power emergency driver, self-diagnostic, 5°C min, UL924 Compliant, Certified in CA Title 20	DWUVD	durable
CPTL16W	Cord with 15-amp NEMA twist lock plug, 16-gauge, 3 conductors,		MAEDBS (120-277) (LINK) <b>‡</b>	DWHXD	White, super durable
	white, 6ft (120-277V only) <b>‡</b>	E15WMCP	Power Sentry® PS1555MCP, 15 watt internal constant power emergency	DNXD	Satin nickel,
CPIL20A16W	Cord with 20-amp NEMA twist lock plug, 16-gauge, 3 conductors, white, 6ft (120-480V) <b>‡</b>		driver, self-diagnostic, 5° C min, UL924 Compliant, Certified in CA Title 20 MAEDBS (120-277V) (LINK) <b>‡</b>		super durable
*see page 8 fo	or additonal cord set options.	IE20WCPHE	IOTA® ILBHI CP20 HE SD HV B, 20 watt internal constant power emergency	DBXD	Black, super
_			driver, self-diagnostic, 0° C min, UL924 Compliant, Certified in CA Title 20 MAEDBS, (347-480V) (LINK) <b>‡</b>	DCDVD	durable
Damp Locatio CNP16W	<u>n Cords (no plug)</u> : <b>‡</b> Cord only, 16-gauge, 3 conductors, white, 6ft	IE30WCPHE	IOTA® ILBHI CP30 HE SD HV B, 30 watt internal constant power emergency	DGRXD	Graphite, super durable
CNP16W CNP16	Cord only, 16-gauge, 3 conductors, while, ort Cord only, 16-gauge, 3 conductors, black, 6ft		driver, self-diagnostic, 0° C min, UL924 Compliant, Certified in CA Title 20		super durable
CNP164CW	Cord only, 16-gauge, 4 conductors, white, 6ft <b>‡</b>	IE20WCPHER	MAEDBS, (347-480V) (LINK) <b>‡</b> IOTA® ILBLP CP20 HE SD HV S, 20 watt remote constant power emergency		
CNP164C	Cord only, 16-gauge, 4 conductors, black, 6ft <b>‡</b>	IEZUWURIEN	driver, self-diagnostic, 0° C min, UL924 Compliant, Certified in CA Title 20		
CNP165CDW	Cord only, 16-gauge, 5 conductors, includes 0-10V dimming leads, white, 6ft <b>‡</b>		MAEDBS (120-277) ( <u>LINK</u> ) <b>‡</b>		
CNP165CD	Cord only, 16-gauge, 5 conductors, includes 0-10V dimming leads,	IE30WCPHER	IOTA® ILBLP CP30 HE SD HV S 30 watt remote constant power emergency driver, self-diagnostic, 0° C min, UL924 Compliant, Certified in CA Title 20		
	black, 6ft ‡		MAEDBS (120-277V) (LINK) ‡		
CNP165CW	Cord only, 16-gauge, 5 conductors for use with ER controls or ETS option with 2 power sources, white, 6ft <b>‡</b>	IE18WCPHECW	IOTA® ILB CP18 HE CW 1LA, 18 watt internal constant power emergency		
CNP165C	Cord only, 16-gauge, 5 conductors for use with ER controls or ETS		driver, cold weather, -20° C min, UL924 compliant, Certified in CA Ťitle 20 MAEDBS (120-277) (LINK) <b>‡</b>		
	option with 2 power sources, black, 6ft ‡	ETS	IOTA® ETS DR, Automatic load control relay device (ALCR) for UL924		
*see page 8 fo	or additonal cord options.	Hooks: <b>‡</b>	compliance when using an auxiliary generator or central inverter (LINK) <b>‡</b>		
UPH Cord Sets	x <b>+</b>	HKM455	34″ aluminum male safety hook (PF-455)		
РНСВ	Cord with locking plug for use with power hook (UPH) only, 16-guage, 3	HKMAR	34" male anti-rotational hook (PF-129)		
PHCBL8480	conductors, white, 2ft (120-347V only), includes LPMD loop	HKMD	34" male safety hook (PF-121-A)		
PHCBL8480	Cord with locking plug for use with power hook (UPH) only, 16-guage, 3 conductors, white, 2ft (480V only), includes LPMD loop	LPMD	¾″ male loop (PF-105-B)		
	· · · · ·	Other Options:			
UPH Hangers: UPH35		2PA	72 Inch stainless steel safety chain attached in two places, factory		
UPH35 UPH36	Thru-way powerhook for use with PHCB, surface mount Thru-way powerhook for use with PHCB, pendant mount	GRR	installed ‡ Rod and ring optic assembly ‡		
011150	nia naj ponemoskio ase man neb, pendant modite	NSG	Non-silicone gasket (EPDM)		
Modular Wirir		SCKX	X Inch stainless steel safety chain, factory installed <b>‡</b>		
OCS	Reloc <sup>®</sup> One Pass circuit selector drop cable, 18-gauge, 3 conductors, 6ft (LINK) <b>‡</b>	SPD	Secondary surge device, 10kV ‡		
	OIL (LINK) +	WGX MISC	Zinc plated wire guard <b>‡</b> Mex		
		mise	INICA		

Accessories: Order as separa	te catalog number.
HAC10	10ft aircraft cables (ships as pair)
HAC20	20ft aircraft cables (ships as pair)
HKFD	¾″ female safety hook (PF-122-A)
HKM455	¾″ aluminum male safety hook (PF-455)
HKMAR	¾" male anti-rotational hook (PF-129)
HKMD	¾″ male safety hook (PF-121-A)
LPFD	¾" female loop (PF-116)
LPMD	¾" male loop (PF-105-B)
PHGCHAIN XIN	X Inch stainless steel safety chain kit ‡
PHGWGA	Zinc plated wire guard ‡
UPH 35SM XXX DWHXD	Universal power hook, thru-wire/surface mount, must specify voltage. Available with 120, 208, 240, 277, 348V. PHCB required. ‡
UPH 35SM L8480 DWHXD	Universal power hook, thru-wire/surface mount, must specify voltage. Available with 480V. PHCB required. ‡
UPH 36PM XXX DWHXD	Universal power hook, pendant mount, must specify voltage. Available with 120, 208, 240, 277, 348V. PHCB required. ‡
UPH 36PM L8480 DWHXD	Universal power hook, pendant mount, must specify voltage. Available with 480V. PHCB required. <b>‡</b>

NOTE: + indicates option chosen has ordering restrictions or notes. Please reference ordering restrictions and notes chart, page 5. Options are sorted alphanumerically.

ScuityBrands.

### PHG LED High Bay



	Option Value Ordering Restrictions and Notes
Option value	Restriction
26000LM	Available with 50K 80CRI only
277X, 347X, 480X	Utilizes Xvolt Driver. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with RIO or LSX BTP controls.
347, 480	Ships standard with SPD. SPD is not called out in the nomenclature.
AO	Available with 3 conductor cords with or without plug. Available with 4 conductor cords without plug when utilizing a battery pack. Available with non-dimming sensors only.
2PA	Not available with SCKX, safety chain already included.
Bluetooth Sensors	Ships standard with SPD. SPD is not called out in the nomenclature. Available with 3 conductor cords with or without plug. Not available with XVOLT, 277X, 347X, 480X or other controls.
	Available with ER option by adding to sensor nomenclature. Example: LSX45 OCC BTP LT ER. Utilizes IOTA ETS device, not available with emergency battery options. ER version is available with MVOLT, 120, 208, 240, 277, 277X only. If cord is required with ER, Available with (CNP165W or CNP165C) 5 conductor dual input cord.
CNP164CW, CNP164C	Available with Emergency battery only.
CNP165CDW, CNP165CD	5 Conductor cord for dimming. Not available with Dimming Sensors, Bluetooth Sensors, nLight Wired, nLight Wireless or AO.
CNP165CW, CNP165C	5 Conductor dual input cord for emergency. Available with ETS, ER sensors or ER controls only.
CPSB16W	NEMA plug configuration: 120 = 5-15P.
CPTL16W	NEMA plug configurations: 120 = L5-15P, 208 or 240 = L6-15P, 277 = L7-15P.
CPTL20A16W	NEMA plug configurations: 120 = L5-20P, 208 or 240 = L6-20P, 277 = L7-20P, 347 = L24-20P, 480 = L8-20P.
Damp Location Cords (no plug)	6' is standard, but other lengths are available. Must specify length in the nomenclature. Example: CNP16W10FT. See page 8 for more information.
Damp Location Cordsets	6' is standard, but other lengths are available. Must specify length in the nomenclature. Example: CPTL16W3FT. See page 8 for more information.
Dimming Sensors	Ships standard with SPD. SPD is not called out in the nomenclature. Available with 3 conductor cords with or without plug. Not available with other controls. Available with ER option by adding to sensor nomenclature. Example: LSXR50 HL ER. Utilizes IOTA ETS device, not available with mergency battery options. ER version is available with MVOLT, 120, 208, 240, 277, 277X. If ford is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ford is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120, 208, 240, 277, 277X. If ord is required with ER, available with (MVOLT, 120
E10WMCP	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with ETS or ER controls. Available with (CNP164CW or
E15WMCP	CNP164C) 4 conductor cord, but not required. When ordered with 36000LM package, fixture will utilize top battery box. Available with MVOLT, 120, 208, 240, 277, 277X, Ships standard with SPD. SPD is not called out in the nomenclature. Not available with ETS or ER controls, Available with (CNP164CW or
	CNP164C) 4 conductor cord, but not required. When ordered with 36000LM package, fixture will utilize top battery box.
ETS	Available with MVOLT, 120, 208, 240, 277, 277X only. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with other controls. Available with (CNP165CW or CNP165C) 5 conductor dual input cord.
GRR	Available with NGG, MGG, WGG, NGGFR, MGGFR, WGGFR, NGGAL, MGGAL or WGGAL only. Not available with Acrylic reflectors.
Hooks	Available with PM only.
HVOLT	Ships standard with SPD. SPD is not called out in the nomenclature.
IE18WCPCW	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with ETS or ER controls. Available with (CNP164CW or CNP164C) 4 conductor cord, but not required.
IE20WCPHE	Available with HVOLT, 347, 480, 347X, 480X. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with ETS or ER controls. Available with (CNP164CW or CNP164C) 4 conductor cord, but not required. Will utilize top battery box.
IE20WCPHER	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with ETS or ER controls. Available with (CNP164CW or CNP164C) 4 conductor cord, but not required.
IE30WCPHE	Available with HVOLT, 347, 480, 347X, 480X. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with ETS or ER controls. Available with (CNP164CW or CNP164C) 4 conductor cord, but not required. Will utilize top battery box.
IE30WCPHER	Available with MVOLT, 120, 208, 240, 277, 277X. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with ETS or ER controls. Available with (CNP164CW or CNP164C) 4 conductor cord, but not required.
Lumens	See Ambient chart for ambient ratings.
Modular Wiring	Available with WHK, PM or NDT only. Must Specify voltage. Dry listed.
NDT	The NDT (non-disconnect thru-wiring) system is made up of 2 parts. The top portion is removable and is meant to be installed in the ceiling. The bottom portion is factory installed to the fixture. The 2 part junction box used on top of the fixture will be empty.
nLight Wired	Ships standard with SPD. SPD is not called out in the nomenclature. Available with 120, 277 or 347 only. Not available with Emergency Batteries or any other controls. Available with 3 conductor cords with or without plug. Available with ER option by adding to power pack nomenclature. Example: NPP16 D ER. If cord is required with ER, Available with (CNP165CW) 5 conductor dual input cord.
NLTAIR RIO ER	Ships Standard with SPD. SPD is not called out in the nomenclature. Available with MVOLT, 120, 208, 240, 277, 277X only. Utilizes lota ETS. Available with (CNP165CW or CNP165) 5 conductor dual input cord. Not available with other controls.
NLTAIR2 RIO	Ships Standard with SPD. SPD is not called out in the nomenclature. Available with 3 conductor cords with or without plug. Not available with XVOLT, 277X, 347X, 480X or other controls.
NLTAIR2 RLSXR6 ER, NLTAIR2 RLSXR10 ER	Ships Standard with SPD. SPD is not called out in the nomenclature. Available with MVOLT, 120, 208, 240, 277, 277X only. Utilizes lota ETS. Available with (CNP165CW or CNP165) 5 conductor dual input cord. Not available with other controls.
NLTAIR2 RLSXR6, NLTAIR2 RLSXR10	Conductor dual input cord. Not available with other controls. Ships Standard with SPD. SPD is not called out in the nomenclature. Available with 3 conductor cords with or without plug. Not available with other controls. Normal luminaires (non- emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.
NLTAIR2 RLSXR6 EM, NLTAIR2 RLSXR10 EM	Ships Standard with SPD. SPD is not called out in the nomenclature. Available with 3 conductor cords with or without pluq. Not available with other controls.
NLTAIR2 RPP20D	Ships Standard with SPD. SPD is not called out in the nomenclature. Available with 3 conductor cords with or without plug. Not available with other controls. Normal luminaires (non-
	emergency) can be used as a normal power sensing device for nearby nLight AIR devices and luminaires with EM emergency options.
NLTAIR2 RPP20D EM	Ships Standard with SPD. SPD is not called out in the nomenclature. Available with 3 conductor cords with or without plug. Not available with other controls.
NLTAIR2 RPP20D ER	Ships Standard with SPD. SPD is not called out in the nomenclature. Available with MVOLT, 120, 208, 240, 277, 277X only. Utilizes lota ETS. Available with (CNP165CW) 5 conductor dual input cord. Not available with other controls.
NR	Ordering this option assumes the top portion of the QD option (QDH) or the top portion of the NDT option is already installed. This is a for retrofit applications only.
Non-Dimming Sensors	Ships standard with SPD. SPD is not called out in the nomenclature. Available with 3 or 5 (dimming type) conductor cords with or without plug. Available with ER option by adding to sensor nomenclature. Example: LSXR50 ER. Utilizes IOTA ETS device, not available with emergency battery options. ER version is available with MVOLT, 120, 208, 240, 277, 277X only. If cord is
OCS	required with ER, Available with (CNP165W or CNP165) 5 conductor dual input cord. Please note all modular wiring options are dry listed and fixture will have a dry listed label. Actual Reloc® System Drop Cable used depends upon voltage chosen in the fixture nomenclature. Example: 277V = OCS 277.
PHGCHAIN XIN	Example: $27/V = 0.5277$ . X denotes length. Chain shipped separately as an accessory. Available in multiple sizes. Replace X with size in inches. Example: PHGCHAIN 120IN = 120 inches or 10 feet.
PHGWGA	Not available with NGLR, MGLR, WGLR, MALR Optical assemblies or LSXR, LSXBTP, NLTAIR RLSXR sensors.
QD	Not available with emergency battery pack options. The QD (quick disconnect) system is made up of 2 parts. The top portion "QDH" ships separately to be installed in the ceiling. The Bottom portion is factory installed to the fixture. The 2 part quick disconnect will include components to allow voltage to pass between the top and bottom portions.
QR	Ordering this option assumes the top portion of the QD option (QDH) or the top portion of the NDT option is already installed. This is a for retrofit applications only.
SCKX	X denotes length. Safety Chain is available in multiple sizes. Replace X with size in inches. Example: SCK120 = 120 inches or 10 feet
SPD	Not available with HVOLT, 347, 480, XVOLT, 277X, 347X, 480X, any emergency battery option listed or any control option listed (sensors, power packs or controllers). SPD is already included anytime you order one of these options.
UPH 355M L8480 DWHXD,UPH 36PM L8480 DWHXD	Available with PHCBL8480 option only.
UPH 35SM XXX DWHXD, UPH 36PM XXX DWHXD	XXX denotes voltage. Available with PHCB option only.
UPH Cord Sets	Available with PM only. Must Specify voltage. For new installation, order matching UPH accessory. For existing installation, match PHCB voltage to existing UPH.
UPH Hangers	Available with PHCB or PHCBL8480 only. Must Specify voltage.
WGX	Cannot be field installed on a fixture that utilizes an NGLR, MGLR, WGLR, MALR Optical assembly or an LSXR, LSXBTP, NLTAIR RLSXR sensor.
XVOLT	Utilizes Xvolt Driver. Ships standard with SPD. SPD is not called out in the nomenclature. Not available with RIO or LSX BTP controls.
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PHG LED High Bay



## 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%

#### ADJUSTABLE OUTPUT (AO)

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%

### **OPERATING AMBIENT CHART**

Lumen	Standard	LSXR, rLSXR, LSX BTP, SBOR, rSBOR	RIO	NPP16 D	RPP20 D	ETS
9000	55 C	55 C	55 C	35 C	45 C	35 C
12000	55 C	55 C	55 C	35 C	45 C	35 C
15000	55 C	55 C	55 C	35 C	45 C	35 C
18000	55 C	55 C	55 C	35 C	45 C	35 C
24000	55 C	55 C	55 C	35 C	45 C	35 C
26000	55 C	55 C	55 C	35 C	45 C	35 C
30000	55 C	55 C	55 C	35 C	45 C	35 C
36000	50 C	50 C	50 C	35 C	45 C	35 C

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
HEF 9000	E10WMCP 1915	E15WMCP 2777	<b>IE18WCPHECW</b> 3258	IE20WCPHE/R 3910	<b>IE30WCPHE/R</b> 5708
9000	1915	2777	3258	3910	5708
9000 12000	1915 1876	2777 2734	3258 3217	3910 3818	5708 5594
9000 12000 15000	1915 1876 1860	2777 2734 2713	3258 3217 3194	3910 3818 3793	5708 5594 5570
9000 12000 15000 18000	1915 1876 1860 1967	2777 2734 2713 2873	3258 3217 3194 3386	3910 3818 3793 3995	5708 5594 5570 5866



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#### **PRODUCT DATA**

#### **OPERATIONAL DATA**

PHG SEF	Lumen Package	Wattage (120V)	Lumen Output	LPW
	9000 LM	59	9257	157
	12000 LM	81	12252	152
SEF	15000 LM	101	15173	150
5000K,	18000 LM	123	17944	145
80CRI	24000 LM	158	24306	154
MGG	26000LM	167	26020	156
	30000 LM	201	30539	152
	36000 LM	237	36453	154

PHG HEF	Lumen Package	Wattage (120V)	Lumen Output	LPW
	9000 LM	55	9232	169
	12000 LM	75	12310	165
HEF	15000 LM	94	15069	161
5000K,	18000 LM	108	18254	170
80CRI	24000 LM	144	24471	170
MGG	26000LM	161	27909	173
	30000 LM	178	31068	174
	36000 LM	219	36538	167

#### LUMEN MAINTENANCE

Projected	Projected Lumen Maintenance - SEF (Standard Efficiency)										
Ambient	t 0 15,000 30,000 45,000 60,000 1										
25° C	1.00	0.97	0.94	0.91	0.89	0.82					

Projected	Projected Lumen Maintenance - HEF (High Efficiency)										
Ambient	0	100,000									
25° C	1.00	0.97	0.95	0.93	0.9	0.85					

Note: Table shown is accurate for all available lumen packages.

#### NUMBER OF LED BOARDS AND DRIVERS USED

Lumen Package	Performance Package	Number of LED Boards	Number of drivers	
9000LM	SEF	1	1	
9000LIVI	HEF	1	1	
12000LM	SEF	1	1	
12000LIVI	HEF	1	1	
15000LM	SEF	1	1	
ISUUULIVI	HEF	1	1	
100001 M	SEF	1	1	
18000LM	HEF	1	1	
240001 M	SEF	1	1	
24000LM	HEF	1	1	
260001 M	SEF	1	1	
26000LM	HEF	1	1	
200001 M	SEF	1	2	
30000LM	HEF	1	1	
260001 M	SEF	1	2	
36000LM	HEF	1	2	

## 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	Multiplier
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

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Plug Option	P	lug Type	:‡	Amperag	je	Gauge		# of Con	ductors	Color		Locatio	n	Length	
CNP Cord o CP Cord v plug :	vith T	(blank) TL SB	No plug Locking type ‡ Straight blade ‡	(blank) 20A	15 Amp 20 Amp	(blank) 16	18 Gauge 16 Gauge	(blank) 4C 5C 5CD	3 Conductors 4 Conductors <b>‡</b> 5 Conductors, dual voltage <b>‡</b> 5 Conductors with 0-10V dimming leads <b>‡</b>	(blank) W	Black White	(blank) WL	Damp Location Wet location <b>‡</b>	(blank) 3FT 10FT 12FT 15FT 20FT 25FT	6 Foot 3 Foot 10 Foot 12 Foot 15 Foot 20 Foot 25 Foot

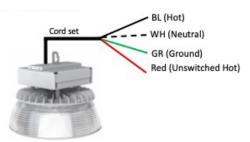
	<b>‡</b> Notes							
4C	Includes 2 hot inputs for use with EM battery options.							
5C	Includes 2 hots and 2 neutrals for use with ETS or sensors with ER option.							
5CD	Includes purple and pink or gray wire for 0-10V dimming							
СР	Must specify voltage.							
SB	Not available with WL (wet location)							
TL	See NEMA Plug Configuration chart on right for plug type used based on voltage.							
WL	Not available with SB (plug type).							

#### **NEMA Plug Configurations**

Voltage	15A 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	NA	L7-15P	L7-20P
HVOLT	NA	NA	NA
347	NA	NA	L24-20P
480	NA	NA	L8-20P
XVOLT	NA	NA	NA
277X	NA	L7-15P	L7-20P
347X	NA	NA	L24-20P
480X	NA	NA	L8-20P

#### **CORD SETS WITH EMERGENCY WIRING DETAILS**

#### When battery is ordered with a 4-conductor cord set:



The 4 conductor cord set (CNP164CW or CNP164C) will include the hot (BL), neutral (WH), and ground (GR) conductors AND the unswitched hot will be a separate conductor (RED).

#### When ETS is ordered with a 5-conductor dual voltage cord:



The 5 conductor dual voltage cord set (CNP165CW or CNP165C) will include the normal hot (BL), normal neutral (WH), ground (GR), EMG hot (RED), and EMG neutral (OR).

PHG LED High Bay



## **EMERGENCY OPERATION SCENARIOS**

	Standard Sensor or Control Device	<b>EM Solution</b>	<b>ER Solution</b>
	(commonly used with Battery Pack Option)	(Used when switching single incoming hot to generator power)	(Used when switching to generator power via a 2nd hot lead)
Emergency Lighting	*Luminaire-integral battery pack and emergency driver	*Diesel genset emergency backup supply	*Fast Transfer (FT) inverter emergency backup supply
Strategy	*Generator transfer device	*Slow transfer inverter (>30ms) 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.

						ER Solution*		Standard	Sensor	Settings	
		Function	Sequence of Operations	Standard Sensor or Control Device	<b>EM</b> Solution (Generator 1 Hot)	(Generator 2 Hots)	Vacancy Time Out	Dim to Off Time Delay	High Trim	Low Trim	Photocell Set Point
		On/Off	Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout.	LSXR6	NLTAIR2 RLSXR6 EM	LSXR6 ER	10 min	NA	NA	NA	NA
	<b>Standalone Sensors</b> (Individual control per fixture)	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	NLTAIR2 RLSXR6 EM	LSXR6 HL ER	10 min	2.5 min	100%	10%	NA
<b>Standalone</b> Individual contre	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	NLTAIR2 RLSXR6 EM	LSXR6 P ER	NA	NA	NA	NA	4 fc	
	)		lenses are available to accommodate specific mounting heights. For 360° integral with "50". Ex. LSXR50 P.	Low Mount sensors, replace	e "6" in nomenclature wi	th "10". Ex. LSXR10 P. For	360° integral	High Mount Ai	sleway sen	sors, replace	"6" in

	On/Off	Lights turn on when motion detected; Upon vacancy, Lights turn off after timeout.	LSX45 OCC BTP LT	NA	LSX45 OCC BTP LT ER	10 min	NA	NA	NA	NA
oth app)	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 BTP LT	NA	LSX45 HL BTP LT ER	10 min	2.5 min	100%	10%	NA
Bluetooth Sensors ible via mobile Bluetooth	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 BTP LT	NA	LSX45 ADC BTP LT ER	10 min	NA	NA	10%	50 fc
<b>Bluet</b> (Configurable vi	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 BTP LT	NA	LSX45 ANL BTP LT ER	10 min	NA	100%	10%	50 fc

<b>nLight wired</b> tworked Controls	Dimming	Programmable On/Off control only with dimming - no sensor (device externally mounted	NPP16 D	NA	NPP16 D ER	NA	NA	100%	10%	NA
Net										

nLight AIR ss Sensors and Networked Controls	Dimming + Photocell + Occupancy	Wirelessly programmable network sensor - On/Off control with dimming, occupancy detection, and daylight harvesting (Sensor embedded in fixture)	NLTAIR2 RLSXR6	NLTAIR2 RLSXR6 EM	NLTAIR2 RLSXR45 ER	7.5 min	NA	100%	10%	50fc		
	Dimming	Wirelessly programmable On/Off control with dimming - no sensor (Device embedded in fixture)	NLTAIR2 RIO	NLTAIR2 RPP20 D EM	NLTAIR2 RIO ER	NA	NA	100%	10%	NA		
	Dimming	Wirelessly programmable On/Off control with dimming - no sensor (Device External)	NLTAIR2 RPP20 D	NLTAIR2 RPP20 D EM	NLTAIR2 RPP20 ER	NA	NA	100%	10%	NA		
Wireless		Note: Different lenses are available to accommodate specific mounting heights. For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". Ex. NLTAAIR2 RLSXR10. For 360° integral High Mount Aisleway sensors, replace "6" in nomenclature with "50". Ex. NLTAAIR2 RLSXR10.										

\*All ER solutions except nLight wired (NPP16 D ER) and nLight AIR (NLTAIR2 RPP20 D ER), include standard sensor or control device with a factory-installed -+ lota 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.



## **COMPONENTS & OPTIONS DATA**



HKMAR (PF-129-A) Hook



HKFD (PF-122-A) Hook



HKM455 (PF-455) Hook



LPFD (PF-116) Loop



AO Field adjustable output dimming.



nLight Wired NPP16 D Power Pack



nLight Wired NPP16 D Power Pack



LSXR Sensor



LSX45 BTP Sensor and SMHB BTP Control Module



OCS Reloc® One Pass® Drop Cable



nLight Air RPP20 D Power Pack



nLight Air RPP20 D EM or ER Power Pack



nLight Air RLSXR Sensor



nLight Air RIO Control Module

