

# Phuzion™

LED High Bay



DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

Catalog Number	
Notes	Type

### Description

The Phuzion LED luminaire takes high-bay lighting to new levels of lumen output and temperature tolerance. By marrying the latest in LED technology with the legendary illuminating dynamics of Holophane's prismatic glass, the Phuzion high bay brings to the industrial environment LED lighting of unparalleled performance and reliability.

### Optics

- Prismatic borosilicate glass maintains highest levels of luminosity over time.
- Glass doesn't fade, discolor or otherwise degrade in harsh environments.
- Three distributions (narrow, medium and wide) available to maximize versatility.
- Highly engineered LED system ensures superior uniformity and maximizes spacing.
- IP65 rated optics.

### Mechanical

- Robust cast aluminum housing with low copper content (0.6% CU content) withstands hot and dirty environments.

- Pendant mount standard.
- Achieves up to 149°F (65°C) ambient rating.

### Electrical

- 0-10V dimming driver is standard (must specify the D option to enable dimming).
- CRI > 70 (nominal) is standard.
- 3000K, 4000K or 5000K CCT available.
- Fault-tolerant LED light engine continues to provide light even in the failure of one LED.
- Aluminum core printed circuit board.

### Listings

- CSA Certified for use in damp locations, 65°C ambient environments.
- DesignLights Consortium qualified.

### Warranty

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_Conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_Conditions.aspx).

### Typical Applications

- Heavy industrial
- Light manufacturing
- Warehousing
- Large indoor

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

Diameter: 21.22 (538.99)  
 Height: 19.02-23.46 (483.11-595.88)  
 Weight: 33-38 lbs. (15.0-17.2 kg)

## ORDERING INFORMATION

**Example:** PHZ 18L 4K AS P G W

Series	Lumens	Color temperature	Voltage	Mounting	Finish	Optics
PHZ	12L 12,000 nominal lumens	3K 3000K CCT 4K 4000K CCT	AS Auto sensing 27 277V (120-277) AH Auto sensing (347/480) <sup>1</sup>	P Pendant Q Quick disconnect N Non-disconnect thru-wiring	W White G Gray K Black paint	N Narrow M Medium W Wide
	18L 18,000 nominal lumens	5K 5000K CCT	12 120V 20 208V 24 240V	QR Quick disconnect retrofit NR Non-disconnect thru-wiring retrofit	L Satin nickel paint TDC Tiger Drylac paint	
	24L 24,000 nominal lumens		48 480V <sup>1</sup>			

Options							
SBR6	360° motion sensor embedded, high bay 15-45 ft., on/off. <sup>2,3</sup>		F1 Single fusing <sup>4</sup> F2 Double fusing <sup>5</sup>	CDP-5-15-X Straight blade 120V plug and cord <sup>6</sup>	SPAS Surge protector, 120V-277V SPAH Surge protector, 347V-480V		
SBR6D	360° motion sensor embedded, high bay 15-45 ft., on/off with second time-out period, goes to a dimmed state before turning off max./min. dim setting. <sup>2,3</sup>		CDP-L5-15-X 120V cord and plug <sup>6,7</sup> CDP-L6-15-X 208V/240V cord and plug <sup>6,7</sup> CDP-L7-15-X 277V cord and plug <sup>6,7</sup>	PF-129 Anti-rotational hook, 3/4" male PF-105 Loop, 3/4" male PF-121-A Safety hook, 3/4" male	D Dimming terminal <sup>8</sup> PHCB Powerhook cord for 120V-277V, 347V <sup>9</sup> PHCB-L8-480 Powerhook cord for 480V <sup>9</sup>		
SBR6P	Photocell with two selectable modes of operation. Defaults to on/off mode. Photocell has full control during periods of occupancy. <sup>2,3</sup>		CDP-L24-20-X 347V cord and plug <sup>6,7</sup> CDP-L8-20-X 480V cord and plug <sup>6,7</sup>	CD-3 3 ft. cord <sup>6</sup> CD-6 6 ft. cord <sup>6</sup> CD-X X ft. cord <sup>6,7</sup>	WG Wire guard installed		

Accessories: Order as separate catalog number.						
ILCHAIN3	3 ft. safety chain		UPH-35-L8-480-WH Thru-way powerhook for 480V	PF-129-A	Anti-rotational hook, 3/4" male	
ILCHAIN6	6 ft. safety chain		UPH-36-***-WH Powerhook for 120V, 208V, 240V, 277V and 347V <sup>10</sup>	PF-105-B	Loop, 3/4" male	
ILCHAINX	X ft. safety chain <sup>7</sup>		UPH-36-L8-480-WH Pendant powerhook for 480V	PF-121-A	Safety hook, 3/4" male	
UPH-35-***-WH	Thru-way powerhook for 120V, 208V, 240V, 277V and 347V <sup>10</sup>		PF-116-A Loop, 3/4" female	WGLED	Wire guard	
			PF-122-A Safety hook, 3/4" female			

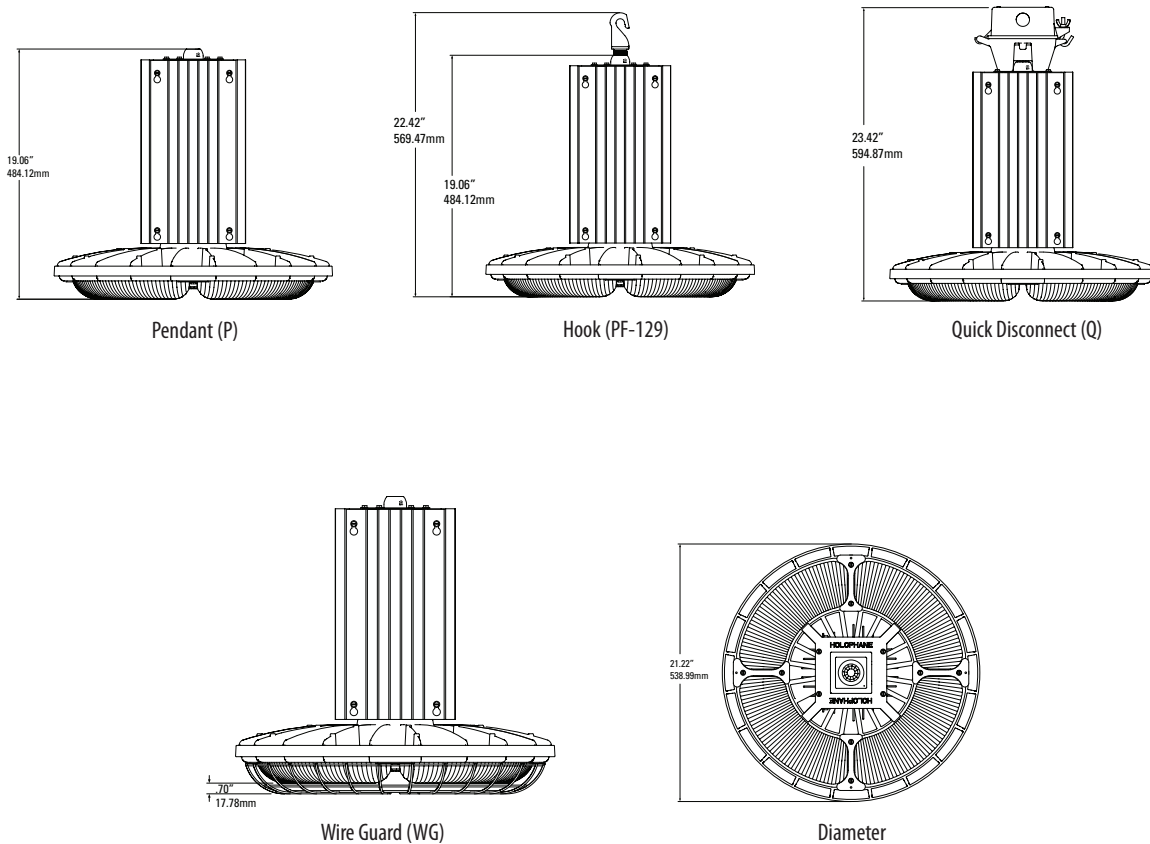
For footnotes, see page 2.

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

**Notes**

- 1 60°C max. ambient.
- 2 Not available with "D" option.
- 3 50°C max. ambient.
- 4 For 120V, 240V, 277V and 347V units; factory installed.
- 5 For 208V, 240V and 480V units; factory installed.
- 6 Order PF also; 3ft. to 6ft. standard cord length.
- 7 X = Length of cord/chain in feet; 6 feet is standard.
- 8 Not available with SBR sensors.
- 9 Order UPH also, PF-105 installed.
- 10 \*\*\* = Voltage.

**DIMENSIONAL DATA**



**OPERATIONAL DATA**

**Operating Characteristics**

Package	Ambient Rating (120V - 277V)	Ambient Rating (347V / 480V)	Distribution	Delivered Lumens 5000K CCT @25°C <sup>1</sup>	Delivered Lumens 4000K CCT @25°C <sup>1</sup>	Delivered Lumens 3000K CCT @25°C <sup>1</sup>	Wattage @ 120V	LPW @ 5000K
PHZ 12L	-40°F to 149°F (-40°C to 65°C)	-40°F to 140°F (-40°C to 60°C)	N	14561	13939	11223	131	111
			M	14662	14036	11300	131	112
			W	14571	13949	11229	131	111
PHZ 18L	-40°F to 149°F (-40°C to 65°C)	-40°F to 140°F (-40°C to 60°C)	N	20617	19737	15888	190	109
			M	20679	20004	16103	190	109
			W	20392	19521	15714	190	107
PHZ 24L	-40°F to 149°F (-40°C to 65°C)	-40°F to 140°F (-40°C to 60°C)	N	26174	25056	20169	247	106
			M	27309	26143	20613	247	111
			W	26749	25606	20612	247	108

**Ambient Temperature Ratings**

Mounting	Thru-wire	Fuse, Surge	Occupancy Sensor	QDH or Non-disconnect	Voltage	Ambient Rating	Supply Wire Temperature
Ceiling	Yes	Yes	Yes	Yes	120-277 347 (no 480 sensor)	122°F (50°C)	194°F (90°C)
Ceiling	Yes	Yes	No	Yes	120-277 347-480	131°F (55°C)	194°F (90°C)
Ceiling	Yes	Yes	No	Yes	120-277	149°F (65°C)	221°F (105°C)
Ceiling	Yes	Yes	No	Yes	347-480	140°F (60°C)	221°F (105°C)
Ceiling	No	Yes	No	Yes	120-277	149°F (65°C)	194°F (90°C)
Ceiling	No	Yes	No	Yes	347-480	140°F (60°C)	194°F (90°C)
Pendant	No	Yes	Yes	No	120-277 347 (no 480 sensor)	122°F (50°C)	194°F (90°C)
Pendant	No	Yes	No	No	120-277 347-480	149°F (65°C)	194°F (90°C)

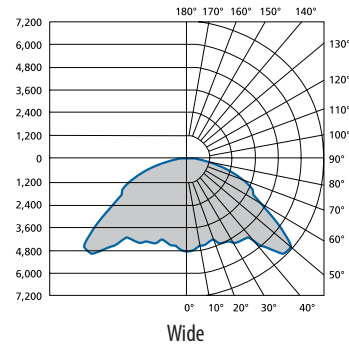
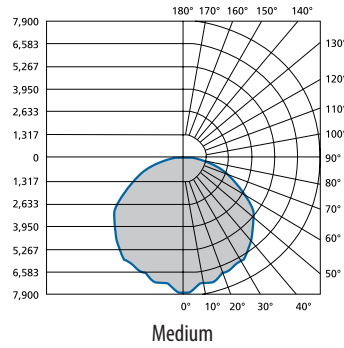
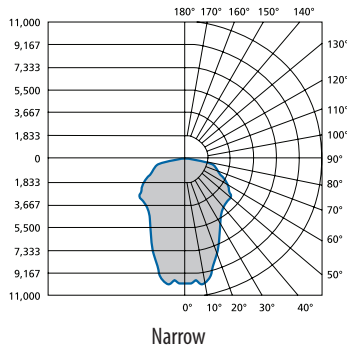
**Projected Lumen Maintenance (TM-21)<sup>2</sup>**

Package	0 Hours	15,000 Hours	30,000 Hours	45,000 Hours	60,000 Hours	100,000 Hours
PHZ 12L, 18L, 24L @ 25C	1.0	0.99	0.98	0.98	0.97	0.96
PHZ 12L, 18L, 24L @ 40C	1.0	0.98	0.97	0.96	0.96	0.94
PHZ 12L, 18L, 24L @ 55C	1.0	0.98	0.96	0.95	0.94	0.91
PHZ 12L, 18L, 24L @ 65C	1.0	0.96	0.94	0.93	0.91	0.88

**Notes**

- 1 Absolute photometry calculated in accordance with IESNA LM-79-08
- 2 Calculated using data collected according to LM-80 and represents lumen maintenance of the LED package.

**DISTRIBUTION DATA**



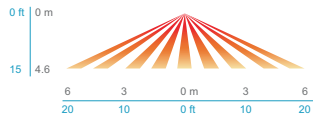
**CONTROLS**



**SBR6, SBR6D, SBR6P Coverage Data**

- 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
- Large motion (e.g., walking) detection up to a 35-ft. (10.76 m) mounting height
- Extra large motion (e.g., forklifts) detection up to a 45-ft. (13.72 m) mounting height

**LOW VIEW**



**HIGH VIEW**

