

Phuzion™ Twin

LED High Bay



Arm will be field assembled and installed. See page 2 for ordering logic.



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 delivers unparalleled performance and reliability. Phuzion is highly versatile and can be installed with the optics facing down or inverted for maximum uplight.

Optics

- Prismatic borosilicate glass maintains highest levels of luminosity over time.
- Glass doesn't fade, discolor or otherwise degrade in harsh environments.
- Six distributions available to achieve results from any mounting height.
- Prismatic optics combined with high efficiency LED's achieve maximum spacing and superior uniformity.
- IP65 rated optics.
- Injection molded acrylic lens available.
- Optional non-silicone gaskets, ideal for automotive production.
- 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.](#)

Mechanical

- Robust cast aluminum housing with low copper content (0.6% CU content) withstands hot and dirty environments.
- Super durable TGIC thermoset powder coat finish provides 1500 hours salt fog rating. The optional CR (corrosion resistant) finish is a five-stage pre-treating and painting process that yields over 5,000 hours salt rating per ASTM B117.
- Twin arm is painted cold rolled steel.
- Stainless steel screws ship standard with the fixture.

Electrical

- 0-10V dimming driver is standard, dims to 10%.
- 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.
- Luminaire Surge Protection Level: Designed to withstand up to 10kV/5kA per ANSI C82.77-5-2015.
- 70, 80, 90 CRI available.
- 3000K, 3500K, 4000K or 5000K CCT available.
- Aluminum core printed circuit board.

Listings

- CSA Certified to meet US and Canadian standards.
- Suitable for use in damp locations.
- -40°F (-40°C) to 158°F (70°C) (see chart on page 5).
- IK rated (see chart on page 5).
- 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. 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.

Typical Applications

- Heavy industrial
- Manufacturing
- Warehousing
- Large indoor

Dimensions: Inches (millimeters) unless otherwise noted.

Length: 47.53 (1207.26)
Width: 21.22 (538.99)
Height: 21.87 (555.49)
Weight: 76-86 lbs. (34.47-39.01 kg)

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*](#)

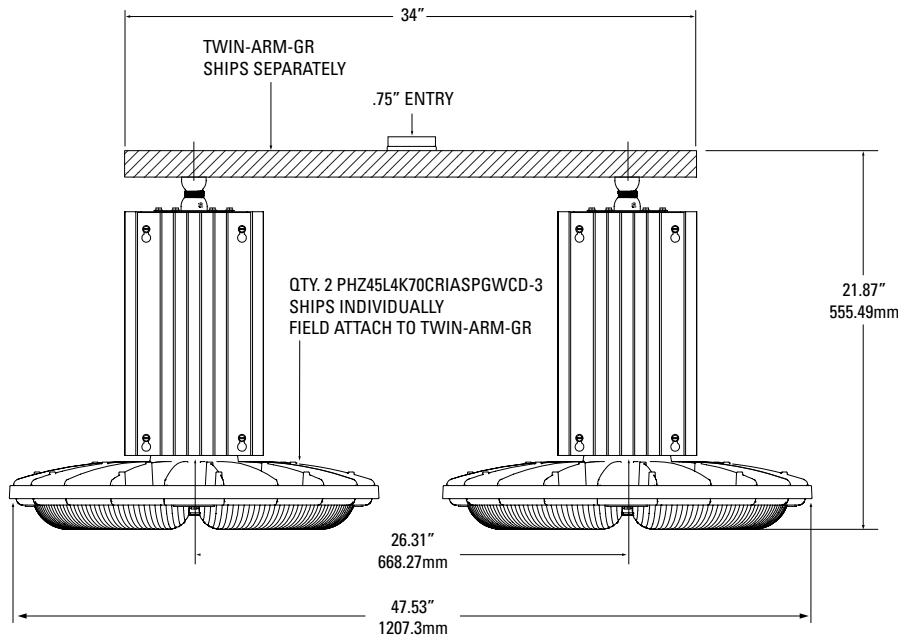
To learn more about A+, visit www.acuitybrands.com/aplus.

*See ordering tree for details

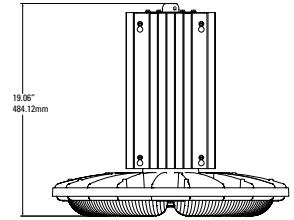
Phuzion™ Twin

LED High Bay

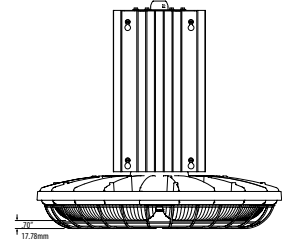
DIMENSIONAL DATA



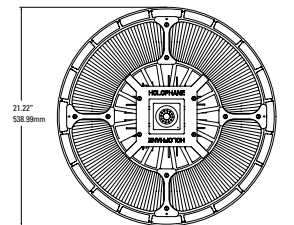
Pendant (PM)

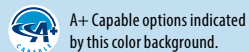


Wire Guard (WG)



Diameter





Example: PHZT 90000LM ND MVOLT 40K 80CRI PM MISC DNxD
Breakouts: PHZ 45000LM ND MVOLT 40K 80CRI PM CNP16W3FT MISC DNxD (Quantity of 2)
 TWINARM DNxD (Quantity of 1)

ORDERING INFORMATION

Series	Lumens	Distribution	Voltage	Color temperature	Color Rendering Index	Mounting
PHZT	60000LM	60,000 nominal lumens	FD Focus Glass	MVOLT Auto sensing (120-277V, 50/60Hz)	XVOLT Enhanced Power Protection (277-480V, 50/60Hz) ‡	PM Pendant ‡
	70000LM	70,000 nominal lumens	FDFR Focus Frosted Glass	120 120V, 50/60Hz	277X 277V XVOLT driver, 50/60Hz ‡	
	80000LM	80,000 nominal lumens	FSMG Focus Smooth Glass			
	90000LM	90,000 nominal lumens	MD Medium Glass	208 208V, 50/60Hz	347X 347V XVOLT Driver, 50/60Hz ‡	
			MDFR Medium Frosted Glass			
	100000LM	100,000 nominal lumens	ND Narrow Glass	240 240V, 50/60Hz	480X 480V XVOLT Driver, 50/60Hz ‡	
	120000LM	120,000 nominal lumens ‡	NDA Narrow Acrylic			
			NDFR Narrow Frosted Glass	277 277V, 50/60Hz		
			WD Wide Glass			
			WDA Wide Acrylic	HVOLT Auto sensing (347-480V, 50/60Hz)		
		WDFR Wide Frosted Glass				

Options				Finish	
Individual Non-Dimming Sensors: ‡		nLight® Air Wireless:		nLight® Wired: ‡	
SBGR6	360° High Mount sensor, (15-30' mounting heights), on/off occupancy (LINK)	NLTAIR2 RSBG6	nLight® Air Generation 2 enabled, 360° high mount sensor, (15-30' mounting heights), IP66 rated (LINK) ‡	NPP16 D	Power/relay pack, 0-10VDC dimming output (LINK)
SBGR10	360° Low Mount Sensor, (8-15' mounting heights), on/off occupancy (LINK)	NLTAIR2 RSBG6 ER	nLight® Air Generation 2 enabled, 360° high mount sensor, (15 to 30' mounting heights), UL 924 Emergency Operation utilizing Iota ETS (not available with battery pack) (LINK) ‡	NPP16 D ER	Power/relay pack, 0-10VDC dimming output, UL924 Emergency operation (not available with a battery pack) (LINK)
SBGR6 P	360° High Mount sensor, (15-30' mounting heights), on/off occupancy (LINK)			NLTAIR2 RSBG10	nLight® Air Generation 2 enabled, 360° low mount sensor, (8-15' mounting heights) (LINK) ‡
SBGR10 P	360° Low Mount Sensor, (8-15' mounting heights), on/off photocell (LINK)	NLTAIR2 RSBG10 ER	nLight® Air Generation 2 enabled, 360° low mount sensor, (8-15' mounting heights), UL 924 Emergency Operation utilizing Iota ETS (not available with battery pack) (LINK) ‡	AO	Field adjustable output ‡
Individual Dimming Sensors: ‡				MISC	Mex
SBGR6 D 3V	360° High Mount sensor, (15-30' mounting heights), high/low occupancy dimming (LINK)			CR	Corrosion resistant paint
SBGR10 D 3V	360° Low Mount sensor, (8-15' mounting heights), high/low occupancy dimming (LINK)			DIM	Dimming terminal ‡
Bluetooth® Sensors: ‡				DL	Damp Location ‡
SBG6 OCC BTP	360° High Mount Sensor, (15-45' mounting heights), on/off occupancy, utilizes smart hub for Bluetooth® programmability (LINK)	NLTAIR2 RSBG40	nLight® Air Generation 2 enabled, 360° low mount sensor, (8-15' mounting heights), UL 924 Emergency Operation utilizing Iota ETS (not available with battery pack) (LINK) ‡	ETS	IOTA® ETS DR, automatic load control relay device (ALCR) for UL924 operation when using auxiliary generator or central inverter (LINK) ‡
SBG10 OCC BTP	360° Low Mount Sensor, (7-15' mounting heights), on/off occupancy, utilizes smart hub for Bluetooth® programmability (LINK)	NLTAIR2 RSBG40 ER	nLight® Air Generation 2 enabled, 360° high bay sensor, (40' mounting heights), UL 924 Emergency Operation utilizing Iota ETS (not available with battery pack) (LINK) ‡	NSG	Non-silicone gasket (EPDM)
SBG6 HL BTP	360° High Mount Sensor, (15-45' mounting heights), on/off occupancy with auto dimming photocell, utilizes smart hub for Bluetooth® programmability (LINK)			SCKX	X Inch stainless steel safety chain factory installed ‡
SBG10 HL BTP	360° Low Mount Sensor, (7-15' mounting heights), high/low/off occupancy dimming, utilizes smart hub for Bluetooth® programmability (LINK)	NLTAIR2 RIO	nLight® Air Generation 2 fixture embedded network interface, 0-10V dimming output (LINK) ‡	WGX	Wire guard
SBG6 ADC BTP	360° High Mount Sensor, (15-45' mounting heights), on/off occupancy with auto dimming photocell, utilizes smart hub for Bluetooth® programmability (LINK)	NLTAIR2 RIO ER	nLight® Air Generation 2 fixture embedded network interface, 0-10V dimming output, includes ETS for UL 924 operation when using auxiliary generator or central inverter (LINK) ‡	Cords (no plug):	
SBG10 ADC BTP	360° Low Mount Sensor, (7-15' mounting heights), on/off occupancy with auto dimming photocell, utilizes smart hub for Bluetooth® programmability (LINK)			CNP16W3FT	Cord only, 16-gauge, 3 conductors, white, 3FT ‡
SBG6 ANL BTP	360° High Mount Sensor, (15-45' mounting heights), high/low/off occupancy dimming with auto dimming photocell, utilizes smart hub for Bluetooth® programmability (LINK)	NLTAIR2 RPP20 D	nLight® air Generation 2 enabled, power/relay pack, 0-10V dimming output (LINK) ‡	CNP165CDW3FT	Cord only, 16-gauge, 5 conductors, includes 0-10V dimming leads, white, 3FT ‡
SBG10 ANL BTP	360° Low Mount Sensor, (7-15' mounting heights), high/low/off occupancy dimming with auto dimming photocell, utilizes smart hub for Bluetooth® programmability (LINK)	NLTAIR2 RPP20 D ER	nLight® air Generation 2 enabled, power/relay pack, 0-10V dimming output, UL924 operation via power sense leads (not available with battery pack) (LINK) ‡	SEE NEXT PAGE FOR ACCESSORIES	

Accessories: Order as separate catalog number.		
PHZCHAIN XIN	X Inch stainless steel safety chain kit ‡	HKFD ¼" female safety hook (PF-122-A)
PHCB	Cord with non NEMA locking plug for use with universal power hook (UPH), 16 gauge, 3 conductors, white, 2FT, includes LPMD (PF-105) loop (120-347V) ‡	HKMD ¼" male safety hook (PF-121-A)
PHCBL8480	Cord with L8 NEMA locking plug for use with universal power hook (UPH), 16 gauge, 3 conductors, white, 2FT, includes LPMD (PF-105) loop (480V) ‡	HKMAR ¼" male anti-rotational hook (PF-129)
UPH 35SM XXX DWHXD	Universal power hook for use with PHCB accessory, thru-wire/surface mounting. (120-347V) ‡	LPFD ¼" female loop (PF-116)
UPH 35SM L8480 DWHXD	Universal power hook for use with PHCB accessory, thru-wire/surface mounting. (480V) ‡	LPMD ¼" male loop (PF-105-B)
UPH 36SM XXX DWHXD	Universal power hook for use with PHCB accessory, pendant mount. (120-347V) ‡	WGPHZ Wire guard
UPH 36SM L8480 DWHXD	Universal power hook for use with PHCB accessory, pendant mount. (480V) ‡	

Ordering/Shipping Logic ‡	
PHZT 80000LM ships as: (qty 1) TWINARM XXX (qty 2) PHZT 40000LM XXX CNP16W3FT	PHZT 120000LM CNP165CD3FT ships as: (qty 1) TWINARM XXX (qty 2) PHZT 60000LM XXX CNP165CD3FT

‡ Option Value Ordering Restrictions & Notes	
Option value	Restriction
120000LM	Not available with XVOLT, 277X, 347X, 480X, Bluetooth® Sensors (SBG BTP) or select nLight® air wireless sensors or controls (NLTAIR2 RSBG, NLTAIR2 RIO).
277X, 347X, 480X	Not available with 120000LM.
AO	Not available with DIM, any other controls or dimming sensor options.
Bluetooth® Sensors	Not available with 120000LM, AO, DIM, XVOLT, 277X, 347X, 480X, any other controls or sensors.
CNP16W3FT	PHZT automatically breaks out into 2 separate PHZ luminaires with 3 conductor, 3FT cords. This option is required unless choosing the optional 5 conductor (CNP165CD3FT) cord.
CNP165CDW3FT	PHZT automatically breaks out into 2 separate PHZ luminaires with 3 conductor, 3FT cords. Choosing this option will change the standard 3 conductor (CNP16W3FT) cord to a 5 conductor, 3FT cord to add dimming capabilities.
DIM	Not available with AO, any other controls or dimming sensor options. Screw used to attached terminal to fixture will not be stainless steel.
DL	DL (damp location) option is required regardless of options chosen and will be included in the nomenclature of the fixtures that break out.
ETS	Available with MVOLT, 120, 208, 240 or 277 only. Available with NLTAIR2 RSBG6, NLTAIR2 RSBG10, NLTAIR2 RIO control options only. Customer to provide 6 conductor cord.
Individual Dimming Sensors	Not available with AO, DIM, XVOLT, any other controls or sensors.
Individual Non-Dimming Sensors	Available with AO, DIM. Not available with XVOLT, any other controls or sensors.
nLight® Wired	Available with PM, 120, 277, 277X, 347 or 347X. Not available with AO, DIM, any other controls or sensors.
NLTAIR2 RPP20D	Available with PM and all voltage options. Not available with AO, DIM any other controls or sensor options. 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 RPP20DER	Available with PM and all voltage options. Not available with AO, DIM any other controls or sensor options.
NLTAIR2 RSBG6, NLTAIR2 RSBG10, NLTAIR2 RSBG40, NLTAIR2 RIO	Not available with AO, DIM, XVOLT, 277X, 347X, 480X, 120000LM, any other controls or sensor options.
NLTAIR2 RSBG6 ER, NLTAIR2 RSBG10 ER, NLTAIR2 RSBG40 ER, NLTAIR2 RIO ER	Not available with AO, DIM, HVOLT, 347, 480, XVOLT, 277X, 347X, 480X, 120000LM, any other controls or sensor options. Utilizes ETS ALCR device to bypass controls when fixture is connected to a auxiliary generator or central inverter. Available with 5 conductor dual voltage by special order.
Ordering/Shipping Logic	The standard configuration will always break out with a TWINARM and (2) standard PHZ fixtures with 3 conductor, 3ft cords on each. When ordered with the CNP165CDW3FT option, the 3 conductor, 3ft cords will be replaced by 5 conductor, 3ft cords. The extra leads are for dimming.
PHCB, PHCBL8840	Must specify voltage. For new installations, order matching UPH accessory. For existing installations, match PHCB voltage to existing UPH. Shipped separately to be installed on twin arm.
PHZCHAIN XIN	X denotes length. Chain shipped separately as an accessory. Available in multiple sizes. Replace X with size in feet. Example: PHZCHAIN 120IN = 120 inches or 10 feet.
PM	PHZT automatically breaks out into 2 separate PHZ luminaires with 3FT cords included.
SCKX	X denotes length. Available in multiple sizes. Replace X with size in inches. Example: SCK120 = 120 inches or 10 feet.
UPH 35SM XXX DWHXD, UPH 36SM XXX DWHXD	Available with PHCB only.
UPH 35SM L8480 DWHXD, UPH 36PM L8480 DWHXD	Available with PHCBL8480 only.
XVOLT	Not available with 120000LM.

OPERATIONAL DATA

Ambient Temperature Ratings

Mounting	Occupancy Sensor	SBGR BTP	Voltage	Max Ambient						Min. Supply Wire Temp.
				30000LM	35000LM	40000LM	45000LM	50000LM	60000LM	
All	No	No	All	65°C	65°C	60°C	60°C	60°C	55°C	90°C
All	Yes	No	All	45°C	45°C	40°C	40°C	40°C	40°C	90°C
All	Yes	Yes	120V-277V	45°C	45°C	40°C	40°C	40°C	40°C	90°C

Note
Chart based on one of two PHZ fixtures that will be attached to the twin arm.

LAT Factors

Ambient °C	30000L	35000L	40000L	45000L	50000L	60000L
25	1.00	1.00	1.00	1.00	1.00	1.00
30	0.99	0.99	0.99	0.99	0.99	0.99
35	0.98	0.98	0.98	0.98	0.98	0.98
40	0.97	0.97	0.97	0.97	0.97	0.97
45	0.97	0.97	0.97	0.96	0.96	0.96
50	0.96	0.96	0.96	0.95	0.95	0.95
55	0.95	0.95	0.95	0.94	0.94	0.94
60	0.94	0.94	0.94	0.93	0.93	NA
65	0.93	0.93	NA	NA	NA	NA

Impact Resistance (IK Ratings)	
Lens Material	Rating
Glass	IK06
Acrylic	IK07

Performance with AO* Field Adjustable Output

FAO Position	% Light Output	% Power Consumption
8	100%	100%
7	89%	86%
6	78%	75%
5	67%	62%
4	54%	49%
3	41%	36%
2	28%	24%
1	14%	11%

Note
Same for all configurations.

Number of LED Boards and Drivers Used

Lumen package	Number of fixtures and type	Number of LED boards per fixture	Number of drivers per fixture
60000LM	2	4	2
	PHZ 30000LM		
70000LM	2	4	2
	PHZ 35000LM		
80000LM	2	4	2
	PHZ 40000LM		
90000LM	2	4	2
	PHZ 45000LM		
100000LM	2	4	2
	PHZ 50000LM		
120000LM	2	4	2
	PHZ 60000LM		

Note
Chart based on one of two PHZ fixtures that will be attached to the twin arm.

OPERATIONAL DATA CONTINUED

Operating Characteristics ‡

Lumen Package ‡	Distribution	Input Watts ‡	3000K			3500K			4000K			5000K			
			70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	
30000LM	FD	218	25560	23889	18877	25560	24557	19713	27899	25393	21383	28734	25727	23388	Lumens
			117	110	87	117	113	90	128	116	98	132	118	107	LPW
	FDFR	218	23325	21800	17227	23325	22410	17989	25459	23172	19514	26221	23477	21343	Lumens
			107	100	79	107	103	83	117	106	90	120	108	98	LPW
	FSMG	218	25875	24184	19110	25875	24860	19956	28243	25706	21647	29088	26044	23677	Lumens
			119	111	88	119	114	92	130	118	99	133	119	109	LPW
	MD	218	27294	25510	20159	27294	26224	21050	29792	27116	22834	30684	27473	24975	Lumens
			125	117	92	125	120	97	137	124	105	141	126	115	LPW
	MDFR	218	25223	23575	18629	25223	24234	19453	27531	25058	21102	28355	25388	23080	Lumens
			116	108	85	116	111	89	126	115	97	130	116	106	LPW
	ND	218	27496	25699	20308	27496	26418	21206	30012	27317	23003	30911	27676	25160	Lumens
			126	118	93	126	121	97	138	125	106	142	127	115	LPW
	NDA	218	27740	25927	20488	27740	26653	21395	30279	27559	23208	31185	27922	25383	Lumens
			127	119	94	127	122	98	139	126	106	143	128	116	LPW
	NDFR	218	25237	23588	18639	25237	24247	19464	27546	25072	21113	28371	25402	23093	Lumens
			116	108	86	116	111	89	126	115	97	130	117	106	LPW
	WD	218	27309	25524	20170	27309	26238	21062	29808	27131	22847	30700	27488	24989	Lumens
			125	117	93	125	120	97	137	124	105	141	126	115	LPW
WDA	218	27843	26023	20564	27843	26751	21474	30391	27661	23294	31301	28025	25478	Lumens	
		128	119	94	128	123	99	139	127	107	144	129	117	LPW	
WDFR	218	23706	22157	17509	23706	22777	18283	25876	23551	19833	26650	23861	21692	Lumens	
		109	102	80	109	104	84	119	108	91	122	109	100	LPW	

Lumen Package ‡	Distribution	Input Watts ‡	3000K			3500K			4000K			5000K			
			70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	
35000LM	FD	254	28779	26898	21255	28779	27650	22195	31412	28591	24076	32352	28967	26333	Lumens
			113	106	84	113	109	87	124	113	95	127	114	104	LPW
	FDFR	254	26262	24546	19396	26262	25232	20255	28665	26091	21971	29524	26434	24031	Lumens
			103	97	76	103	99	80	113	103	87	116	104	95	LPW
	FSMG	254	29134	27229	21517	29134	27991	22469	31799	28943	24373	32752	29324	26658	Lumens
			115	107	85	115	110	88	125	114	96	129	115	105	LPW
	MD	254	30732	28723	22697	30732	29526	23702	33544	30531	25710	34548	30932	28120	Lumens
			121	113	89	121	116	93	132	120	101	136	122	111	LPW
	MDFR	254	28400	26543	20975	28400	27286	21903	30998	28214	23759	31926	28585	25987	Lumens
			112	105	83	112	107	86	122	111	94	126	113	102	LPW
	ND	254	30959	28936	22865	30959	29745	23877	33792	30757	25900	34804	31161	28329	Lumens
			122	114	90	122	117	94	133	121	102	137	123	112	LPW
	NDA	254	31234	29193	23068	31234	30009	24089	34092	31030	26130	35113	31438	28580	Lumens
			123	115	91	123	118	95	134	122	103	138	124	113	LPW
	NDFR	254	28415	26558	20986	28415	27301	21915	31015	28230	23772	31944	28601	26001	Lumens
			112	105	83	112	107	86	122	111	94	126	113	102	LPW
	WD	254	30748	28739	22710	30748	29543	23714	33562	30547	25724	34567	30949	28136	Lumens
			121	113	89	121	116	93	132	120	101	136	122	111	LPW
WDA	254	31350	29301	23154	31350	30120	24178	34218	31145	26227	35243	31555	28686	Lumens	
		123	115	91	123	119	95	135	123	103	139	124	113	LPW	
WDFR	254	26692	24947	19714	26692	25645	20586	29134	26517	22330	30007	26866	24424	Lumens	
		105	98	78	105	101	81	115	104	88	118	106	96	LPW	

‡ Note	
Input Watts	@ 120 volts.
Lumen Package	Chart based on one of two PHZ fixtures that will be attached to the twin arm.
Operating Characteristics	Absolute photometry calculated in accordance with IESNA LM-79-08 @ 25°C.

OPERATIONAL DATA CONTINUED

Operating Characteristics ‡

Lumen Package ‡	Distribution	Input Watts ‡	3000K			3500K			4000K			5000K			
			70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	
40000LM	FD	288	34151	31919	25223	34151	32812	26339	37276	33928	28571	38392	34374	31249	Lumens
			119	111	88	119	114	91	129	118	99	133	119	109	LPW
	FDFR	288	31165	29128	23017	31165	29943	24036	34016	30961	26072	35035	31368	28517	Lumens
			108	101	80	108	104	83	118	108	91	122	109	99	LPW
	FSMG	288	34572	32313	25534	34572	33216	26664	37736	34346	28923	38865	34798	31635	Lumens
			120	112	89	120	115	93	131	119	100	135	121	110	LPW
	MD	288	36468	34085	26934	36468	35038	28126	39805	36230	30510	40997	36707	33370	Lumens
			127	118	94	127	122	98	138	126	106	142	127	116	LPW
	MDFR	288	33701	31498	24890	33701	32379	25992	36785	33481	28194	37886	33921	30838	Lumens
			117	109	86	117	112	90	128	116	98	132	118	107	LPW
	ND	288	36738	34337	27134	36738	35298	28334	40100	36498	30735	41301	36979	33617	Lumens
			128	119	94	128	123	98	139	127	107	143	128	117	LPW
	NDA	288	37065	34642	27374	37065	35611	28586	40456	36822	31008	41667	37307	33915	Lumens
			129	120	95	129	124	99	140	128	108	145	130	118	LPW
	NDFR	288	33720	31516	24904	333720	32397	26006	36805	33499	28210	37907	33940	30855	Lumens
			117	109	86	1159	112	90	128	116	98	132	118	107	LPW
	WD	288	36488	34103	26949	36488	35057	28141	39827	36250	30526	41020	36727	33388	Lumens
			127	118	94	127	122	98	138	126	106	142	128	116	LPW
	WDA	288	37202	34770	27476	37202	35743	28692	40606	36959	31123	41822	37445	34041	Lumens
			129	121	95	129	124	100	141	128	108	145	130	118	LPW
WDFR	288	31675	29604	23394	31675	30432	24429	34573	31468	26499	35608	31882	28983	Lumens	
		110	103	81	110	106	85	120	109	92	124	111	101	LPW	

Lumen Package ‡	Distribution	Input Watts ‡	3000K			3500K			4000K			5000K			
			70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	
45000LM	FD	323	37292	34854	27542	37292	35829	28761	40704	37048	31198	41923	37535	34123	Lumens
			115	108	85	115	111	89	126	115	97	130	116	106	LPW
	FDFR	323	34031	31807	25134	34031	32696	26246	37145	33808	28470	38257	34253	31139	Lumens
			105	98	78	105	101	81	115	105	88	118	106	96	LPW
	FSMG	323	37752	35284	27882	37752	36271	29116	41206	37505	31583	42440	37998	34544	Lumens
			117	109	86	117	112	90	128	116	98	131	118	107	LPW
	MD	323	39822	37220	29411	39822	38261	30713	43466	39562	33315	44768	40083	36439	Lumens
			123	115	91	123	118	95	135	122	103	139	124	113	LPW
	MDFR	323	36800	34395	27179	36800	35357	28382	40168	36560	30787	41370	37041	33674	Lumens
			114	106	84	114	109	88	124	113	95	128	115	104	LPW
	ND	323	40117	37495	29629	40117	38544	30940	43788	39855	33562	45099	40379	36709	Lumens
			124	116	92	124	119	96	136	123	104	140	125	114	LPW
	NDA	323	40473	37828	29892	40473	38886	31215	44177	40209	33860	45499	40738	37034	Lumens
			125	117	93	125	120	97	137	124	105	141	126	115	LPW
	NDFR	323	36821	34414	27194	36821	35377	28398	50290	36580	30804	41393	37061	33692	Lumens
			114	107	84	114	110	88	156	113	95	128	115	104	LPW
	WD	323	39844	37240	29427	39844	38282	30729	43490	39584	33334	44792	40104	36459	Lumens
			123	115	91	123	119	95	135	123	103	139	124	113	LPW
	WDA	323	40623	37968	30003	40623	39030	31330	44341	40358	33986	45668	40889	37172	Lumens
			126	118	93	126	121	97	137	125	105	141	127	115	LPW
WDFR	323	34588	32327	25545	34588	33231	26675	37752	34362	28936	38883	34814	31649	Lumens	
		107	100	79	107	103	83	117	106	90	120	108	98	LPW	

‡ Note	
Input Watts	@ 120 volts.
Lumen Package	Chart based on one of two PHZ fixtures that will be attached to the twin arm.
Operating Characteristics	Absolute photometry calculated in accordance with IESNA LM-79-08 @ 25°C.

OPERATIONAL DATA CONTINUED

Operating Characteristics ‡

Lumen Package ‡	Distribution	Input Watts ‡	3000K			3500K			4000K			5000K			
			70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	
50000LM	FD	374	41690	38965	30791	41690	40055	32153	45505	41418	34878	46867	41963	38148	Lumens
			111	104	82	111	107	86	122	111	93	125	112	102	LPW
	FDFR	374	38045	35558	28098	38045	36553	29342	41526	37796	31828	42769	38293	34812	Lumens
			102	95	75	102	98	78	111	101	85	114	102	93	LPW
	FSMG	374	42204	39446	31171	42204	40549	32550	46066	41929	35308	47446	42480	38618	Lumens
			113	105	83	113	108	87	123	112	94	127	114	103	LPW
	MD	374	44519	41310	32880	45519	42774	34335	48593	44228	37245	50048	44810	40737	Lumens
			119	110	88	122	114	92	130	118	100	134	120	109	LPW
	MDFR	374	41141	38452	30385	41141	39528	31730	44906	40872	34419	46250	41410	37645	Lumens
			110	103	81	110	106	85	120	109	92	124	111	101	LPW
	ND	374	44849	41918	33124	44849	43090	34589	48953	44556	37521	50418	45142	41038	Lumens
			120	112	89	120	115	92	131	119	100	135	121	110	LPW
	NDA	374	45247	42290	33418	45247	43473	34896	49387	44951	37854	50866	45543	41403	Lumens
			121	113	89	121	116	93	132	120	101	136	122	111	LPW
	NDFR	374	41164	38473	30402	41164	39549	31747	44930	40895	34438	46276	41433	37666	Lumens
			110	103	81	110	106	85	120	109	92	124	111	101	LPW
	WD	374	44544	41632	32898	44544	42797	34354	48620	44253	37265	50075	44835	40759	Lumens
			119	111	88	119	114	92	130	118	100	134	120	109	LPW
	WDA	374	45415	42447	33542	45415	43634	35026	49570	45118	37994	51055	45712	41556	Lumens
			121	113	90	121	117	94	133	121	102	137	122	111	LPW
WDFR	374	38667	36140	28558	38667	37151	29822	42205	38414	32349	43469	38920	35382	Lumens	
		103	97	76	103	99	80	113	103	86	116	104	95	LPW	

Lumen Package ‡	Distribution	Input Watts ‡	3000K			3500K			4000K			5000K			
			70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	70CRI	80CRI	90CRI	
60000LM	FD	437	49862	46603	36826	49862	47906	38455	54424	49536	41714	56054	50188	45625	Lumens
			114	107	84	114	110	88	125	113	95	128	115	104	LPW
	FDFR	437	45502	42528	33606	45502	43717	35093	49665	45204	38067	51152	45799	41636	Lumens
			104	97	77	104	100	80	114	103	87	117	105	95	LPW
	FSMG	437	50477	47178	39325	50477	48497	38930	58118	52898	42229	56745	50807	46188	Lumens
			116	108	90	116	111	89	133	121	97	130	116	106	LPW
	MD	437	53246	49765	36341	53246	51157	41065	53707	48883	44545	59858	53594	48721	Lumens
			122	114	83	122	117	94	123	112	102	137	123	111	LPW
	MDFR	437	49205	45989	36341	49205	47275	37949	53707	48883	41165	55315	49527	45024	Lumens
			113	105	83	113	108	87	123	112	94	127	113	103	LPW
	ND	437	53640	50134	39616	53640	51536	41369	58548	53289	44875	60301	53990	49082	Lumens
			123	115	91	123	118	95	134	122	103	138	124	112	LPW
	NDA	437	54116	50579	39968	54116	51994	41736	59068	53762	45273	60836	54470	49518	Lumens
			124	116	91	124	119	96	135	123	104	139	125	113	LPW
	NDFR	437	49232	46014	36361	49232	47302	37970	53737	48910	41188	55346	49554	45049	Lumens
			113	105	83	113	108	87	123	112	94	127	113	103	LPW
	WD	437	53275	49793	39347	53275	51185	41088	58149	52926	44570	59890	53623	48748	Lumens
			122	114	90	122	117	94	133	121	102	137	123	112	LPW
	WDA	437	54317	50766	40116	54317	52186	41891	59287	53962	45441	61062	54672	49701	Lumens
			124	116	92	124	119	96	136	123	104	140	125	114	LPW
WDFR	437	46246	43224	34156	46246	44433	35667	50478	45944	38690	51989	46549	42317	Lumens	
		106	99	78	106	102	82	116	105	89	119	107	97	LPW	

‡ Note	
Input Watts	@ 120 volts.
Lumen Package	Chart based on one of two PHZ fixtures that will be attached to the twin arm.
Operating Characteristics	Absolute photometry calculated in accordance with IESNA LM-79-08 @ 25°C.

OPERATIONAL DATA CONTINUED

Lumen Maintenance 30000LM Package

Ambient °C	0 Hours	15000 Hours	30000 Hours	36000 Hours	45000 Hours	60000 Hours	100000 Hours
25	1.00	0.98	0.97	0.97	0.96	0.96	0.94
30	1.00	0.97	0.96	0.96	0.96	0.95	0.93
35	1.00	0.97	0.96	0.96	0.96	0.95	0.93
40	1.00	0.97	0.96	0.96	0.95	0.95	0.93
45	1.00	0.97	0.96	0.96	0.95	0.95	0.92
50	1.00	0.97	0.96	0.96	0.95	0.95	0.92
55	1.00	0.97	0.96	0.95	0.95	0.95	0.92
60	1.00	0.96	0.95	0.95	0.94	0.93	0.91
65	1.00	0.96	0.95	0.95	0.94	0.93	0.9

Lumen Maintenance 35000LM Package

Ambient °C	0 Hours	15000 Hours	30000 Hours	36000 Hours	45000 Hours	60000 Hours	100000 Hours
25	1.00	0.97	0.96	0.96	0.96	0.95	0.93
30	1.00	0.97	0.96	0.96	0.96	0.95	0.93
35	1.00	0.97	0.96	0.96	0.95	0.95	0.93
40	1.00	0.97	0.96	0.96	0.95	0.94	0.92
45	1.00	0.97	0.96	0.96	0.95	0.94	0.92
50	1.00	0.97	0.96	0.95	0.95	0.94	0.92
55	1.00	0.96	0.95	0.95	0.94	0.93	0.91
60	1.00	0.96	0.95	0.95	0.94	0.93	0.90

Lumen Maintenance 40000LM Package

Ambient °C	0 Hours	15000 Hours	30000 Hours	36000 Hours	45000 Hours	60000 Hours	100000 Hours
25	1.00	0.97	0.96	0.96	0.96	0.95	0.93
30	1.00	0.97	0.96	0.96	0.95	0.95	0.93
35	1.00	0.97	0.96	0.96	0.95	0.94	0.92
40	1.00	0.97	0.96	0.96	0.95	0.94	0.92
45	1.00	0.97	0.96	0.95	0.95	0.94	0.92
50	1.00	0.96	0.95	0.95	0.94	0.93	0.91
55	1.00	0.96	0.95	0.95	0.94	0.93	0.90
60	1.00	0.96	0.95	0.94	0.94	0.93	0.90

Lumen Maintenance 45000LM Package

Ambient °C	0 Hours	15000 Hours	30000 Hours	36000 Hours	45000 Hours	60000 Hours	100000 Hours
25	1.00	0.97	0.96	0.96	0.95	0.95	0.93
30	1.00	0.97	0.96	0.96	0.95	0.94	0.92
35	1.00	0.97	0.96	0.96	0.95	0.94	0.92
40	1.00	0.97	0.96	0.95	0.95	0.94	0.92
45	1.00	0.96	0.95	0.95	0.94	0.93	0.91
50	1.00	0.96	0.95	0.95	0.94	0.93	0.90
55	1.00	0.96	0.95	0.94	0.94	0.93	0.90
60	1.00	0.96	0.95	0.94	0.93	0.92	0.89

OPERATIONAL DATA CONTINUED

Lumen Maintenance 5000LM Package

Ambient °C	0 Hours	15000 Hours	30000 Hours	36000 Hours	45000 Hours	60000 Hours	100000 Hours
25	1.00	0.97	0.96	0.96	0.95	0.94	0.92
30	1.00	0.97	0.96	0.96	0.95	0.94	0.92
35	1.00	0.96	0.95	0.95	0.94	0.93	0.91
40	1.00	0.96	0.95	0.95	0.94	0.93	0.90
45	1.00	0.96	0.95	0.94	0.94	0.93	0.90
50	1.00	0.96	0.95	0.94	0.94	0.92	0.89
55	1.00	0.96	0.95	0.94	0.93	0.92	0.89
60	1.00	<0.96	<0.95	<0.94	<0.93	<0.92	<0.89

Lumen Maintenance 6000LM Package

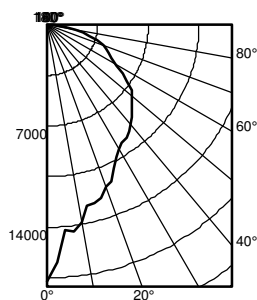
Ambient °C	0 Hours	15000 Hours	30000 Hours	36000 Hours	45000 Hours	60000 Hours	100000 Hours
25	1.00	0.96	0.95	0.95	0.94	0.93	0.91
30	1.00	0.96	0.95	0.95	0.94	0.93	0.90
35	1.00	0.96	0.95	0.94	0.94	0.93	0.90
40	1.00	0.96	0.95	0.94	0.94	0.92	0.90
45	1.00	0.96	0.94	0.94	0.93	0.92	0.89
50	1.00	0.96	0.94	0.94	0.93	0.92	0.89
55	1.00	<0.96	<0.94	<0.94	<0.93	<0.92	<0.89

BTP Default Settings

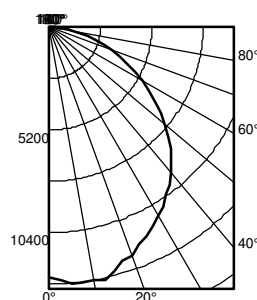
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SBGR10BTP	On/Off Occupancy Only Disabled	10 minutes	Disabled	n/a	n/a	100%	Disabled
SBGR6BTP	On/Off Occupancy Only Disabled	10 minutes	Disabled	n/a	n/a	100%	Disabled
SBGR10BTP HL	Occupancy w/ 0-10V Dimming (High/Low/Off)	10 minutes	Disabled	n/a	10%	100%	2.5 minutes
SBGR6BTP HL	Occupancy w/ 0-10V Dimming (High/Low/Off)	10 minutes	Disabled	n/a	10%	100%	2.5 minutes
SBGR10BTP ADC	Occupancy w/ Dim & Switch Photocell	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	0 seconds
SBGR6BTP ADC	Occupancy w/ Dim & Switch Photocell	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	0 seconds
SBGR10BTP ANL	Dim & Switch Photocell with High/Low Occupancy Operation	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	Stay Dim/Never Off
SBGR6BTP ANL	Dim & Switch Photocell with High/Low Occupancy Operation	10 minutes	On/Off & Auto Dim	50 fc	10%	100%	Stay Dim/Never Off

DISTRIBUTION DATA

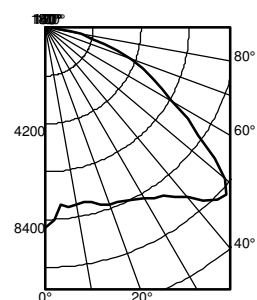
Narrow



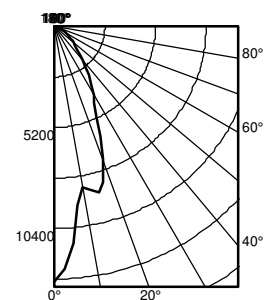
Medium



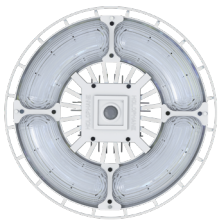
Wide



Focus



COMPONENTS & OPTIONS DATA



Sensors

Occupancy-only mode that controls on/off and dimming of the fixture. Photocell option reads daylight levels to dim lights or prevent start-up.



Dimming drivers

Drivers use 0-10V protocol with dimming down to 10% output.



AO

Field adjustable output dimming.



Optics

Standard prismatic, borosilicate glass that doesn't fade or degrade. Optional frosted optics provide even greater visual comfort. Narrow and Wide Acrylic option not available in frosted.



Wire Guard

Steel wire guard available to further protect fixture from impact.



nLight Wired NPP16 D Power Pack



nLight Wired NPP16 D ER Power Pack



HKMAR (PF-129-A) Hook



HKFD (PF-122-A) Hook



LPFD (PF-116) Loop



SBGR Sensor



SBG BTP sensor with Smart Hub BTP Control Module



nLight Air RPP20 D Power Pack



nLight Air RPP20 D ER Power Pack



nLight Air RSBG Sensor



nLight Air RIO Control Module