



PhuzionL™

Large LED High Bay



| | |
|----------------|------|
| 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.

Certain airborne contaminants can diminish integrity of acrylic. [Click here for Acrylic Environmental 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

- Prismatic borosilicate glass maintains highest levels of luminosity over time.
- Glass doesn't fade, discolor or otherwise degrade in harsh environments.
- Four distributions with glass; Focus, narrow, medium and wide. Two distributions in Acrylic; narrow and wide to maximize versatility.
- Highly engineered LED system ensures superior uniformity and maximizes spacing.

Mechanical

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

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 - Designed to withstand up to 10kV/5kA per ANSI C82.77-5-2015.
- 70, 80 and 90 CRI available.
- 3000K, 3500K, 4000K, 5000K CCT available.
- Aluminum core printed circuit board.

Listings

- CSA Certified to meet US and Canadian standards.
- Suitable for use in wet locations.
- -40°F (-40°C) to 149°F (65°C) with glass optics and 140°F (60°C) with acrylic optics (see chart on page 9).
- IK Rated. (see chart on page 9)
- IP66 rated.
- 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.

Government Procurement

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations. BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.

Please refer to www.acuitybrands.com/resources/buy-american for additional information.

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

- | | |
|---|--|
| <ul style="list-style-type: none"> • Heavy industrial • Lighting manufacturing • Steel Mills | <ul style="list-style-type: none"> • Convention Center • Foundries • Pulp Paper Mills |
|---|--|

Dimensions: Inches (millimeters) unless otherwise noted.

- Diameter: 28.49 in.
Height: 20.98 in.
Weight: 55 lbs.

ORDERING INFORMATION

Example: PHZL 50000LM MD MVOLT 35K 80CRI PM DGXD

| Series | Lumens | Distribution | Voltage | | Color temperature | Color Rendering Index | Mounting |
|--------|----------|--------------------------|----------------------------|---|---|-----------------------|--------------|
| PHZL | 50000LM | 50,000 Nominal lumens | FD Focus, glass | MVOLT Autosensing (120-277V, 50/60Hz) | XVOLT Enhanced Power Protection (277-480V, 50/60Hz) ‡ | 30K 3000K | 70CRI 70 CRI |
| | 60000LM | 60,000 Nominal lumens | FDFR Focus, frosted glass | 120 120V, 50/60Hz | 277X 277V XVOLT Driver, 50/60Hz ‡ | 35K 3500K | 80CRI 80CRI |
| | 70000LM | 70,000 Nominal lumens | FSMG Focus Smooth | 208 208V, 50/60Hz | 347X 347V XVOLT Driver, 50/60Hz ‡ | 40K 4000K | 90CRI 90CRI |
| | 80000LM | 80,000 Nominal lumens | MD Medium, glass | 240 240V, 50/60Hz | 480X 480V XVOLT Driver, 50/60Hz ‡ | 50K 5000K | |
| | 90000LM | 90,000 Nominal lumens ‡ | MDFR Medium, frosted glass | 277 277V, 50/60Hz | | | |
| | 100000LM | 100,000 Nominal lumens ‡ | ND Narrow, glass | HVOLT Autosensing (347-480V, 50/60Hz) ‡ | | | |
| | | | NDA Narrow, clear acrylic | 347 347V, 50/60Hz | | | |
| | | | NDFR Narrow, frosted glass | 480 480V, 50/60Hz | | | |
| | | | WD Wide, glass | | | | |
| | | | WDA Wide, clear acrylic | | | | |
| | | | WDFR Wide, frosted glass | | | | |

| Options | | Finish | | | | | |
|---|--|--|--|--|--|--|--|
| Damp Location Cord Sets: ‡ | | Emergency: | | | | | |
| CPTL16W | Cord with 15-amp twist lock plug, 16-gauge, 3 conductors, white, 6ft (120-277V only) | E15WCPR Power Sentry® PS1555CP, 15W constant emergency LED driver, 5°C min, self-diagnostic, UL924 compliant, Certified in CA Title 20 MAEDBS (LINK) ‡ | | | | | |
| CPTL20A16W | Cord with 20-amp twist lock plug, 16-gauge, 3 conductors, white, 6ft (347-480V only) | IE30WCPRH IOTA® LBHI CP30 HE SD HV, 30 watt remote constant power emergency driver, self-diagnostic, 0°C min, UL924 compliant, Certified in CA Title 20 MAEDBS (347-480V) (LINK) ‡ | | | | | |
| CPSB16W | Cord with 15-amp straight blade plug, 16-gauge, 3 conductors, white, 6ft (120V only) | BSL722 23.1W internal emergency LED driver, 0°C min, UL924 compliant, CA title 20 non-compliant ‡ | | | | | |
| Damp Location Cords (no plug): | | BSL722R 23.1W remote emergency LED driver, 0°C min, UL924 compliant, CA title 20 non-compliant ‡ | | | | | |
| CNP16W | Cord only, 16-gauge, 3 conductors, white, 6ft ‡ | BSL722RC 23.1W remote emergency LED driver for cold applications, -20°C min, UL924 compliant, CA title 20 non-compliant ‡ | | | | | |
| CNP165CD | Cord only, 16-gauge, 5 conductors, includes 0-10V dimming leads, black, 6ft ‡ | ETS IOTA® ETS DR, automatic load control relay device (ALCR) for UL924 operation when using auxiliary generator or central inverter. (LINK) ‡ | | | | | |
| CNP165CDW | Cord only, 16-gauge, 5 conductors, includes 0-10V dimming leads, white, 6ft ‡ | UPH Hangers: ‡ | | | | | |
| UPH Cord Sets: | | UPH35 Thru-way powerhook for use with PHCB, surface mount | | | | | |
| PHCB | Cord with locking plug for use with power hook (UPH) only, 16-gauge, 3 conductors, white, 2ft (120-347V only), includes LPMD/PF-105 loop ‡ | UPH36 Thru-way powerhook for use with PHCB, pendant mount | | | | | |
| PHCBL8480 | Cord with locking plug for use with power hook (UPH) only, 16-gauge, 3 conductors, white, 2ft (480V only), includes LPMD/PF-105 loop ‡ | Other Options: | | | | | |
| Wet Location Cord Sets: # | | AO Field adjustable output ‡ | | | | | |
| CPTL16WWL | Cord with 15-amp twist lock plug, 16-gauge, 3 conductors, white, 6ft (120-277V only) | BAA Buy America(n) Act and/or Build America Buy America Qualified | | | | | |
| Wet Locations Cords (no plug): # | | DIM Dimming terminal ‡ | | | | | |
| CNP16WWL | Cord only, 16-gauge, 3 conductors, white, 6ft | DL Damp Location ‡ | | | | | |
| Modular Wiring: | | NSG Non-silicone gasket (EPDM) | | | | | |
| OCS | Reloc® One Pass® circuit selector system drop, 18-gauge, 3 conductors, 6ft (120-480V) (LINK) ‡ | SCKX X inch stainless steel safety chain factory installed ‡ | | | | | |
| Hooks: | | WGX Wire guard, factory installed | | | | | |
| HKMW | 3/4" wet listed hook male, PF-291 ‡ | | | | | | |
| HKMD | 3/4" damp listed hook male, PF-121-A ‡ | | | | | | |
| HKMAR | 3/4" damp listed anti rotational hook male, PF-129-A ‡ | | | | | | |
| LPMD | 3/4" damp listed loop male, PF-105-B ‡ | | | | | | |

| Accessories: Order as separate catalog number. | | | | | |
|---|---|----------------------|---|---------------|---|
| UPH 35SM XXX DWHXD | Thru-way powerhook for 120V, 208V, 240V, 277V and 347V (120, 208, 240, 277, 277X, 347 or 347X only) ‡ | HCRTLDW16WWL3FTL515R | Cord with Connector (Receptacle), Twist Lock, Daniel Woodhead, 16 Gauge, White, Wet Location, 3ft, NEMA L5-15R, (120V) ‡ | HKFD | Safety hook, 3/4" female PF-122-A |
| UPH 35SM L8480 DWHXD | Thru-way powerhook for 480V (480 or 480X only) ‡ | HCRTLDW16WWL3FTL615R | Cord with Connector (Receptacle), Twist Lock, Daniel Woodhead, 16 Gauge, White, Wet Location, 3ft, NEMA L6-15R (208V or 240V) ‡ | LPFD | Loop, 3/4" female PF-116-A |
| UPH 36PM XXX DWHXD | Pendant powerhook for 120V, 208V, 240V, 277V and 347V (120, 208, 240, 277, 277X, 347 or 347X only) ‡ | HCRTLDW16WWL3FTL715R | Cord with Connector (Receptacle), Twist Lock, Daniel Woodhead, 16 Gauge, White, Wet Location, 3ft, NEMA L7-15R (277V) ‡ | PHZLCHAIN XIN | X Inch stainless steel safety chain kit ‡ |
| UPH 36PM L8480 DWHXD | Pendant powerhook for 480V (480 or 480X only) ‡ | | | WGAPHZL | Wire guard accessory |

| ‡ Option Value Ordering Restrictions & Notes | |
|--|--|
| Option value | Restriction |
| 277X, 347X, 480X | Not available with 90000LM or 100000LM. |
| 90000LM, 100000LM | Not available with HVOLT, XVOLT, 277X, 347X or 480X. When ordered with either 347 or 480 voltage options, an MVOLT (120-177V) driver and step down transformer will be included. |
| A0 | Not available with DIM, dimming controls or dimming occupancy sensors. See chart on page 10 for output levels available. |
| Bluetooth® Sensors | Not available with A0, DIM, 90000LM, 100000LM, XVOLT, 277X, 347X, 480X, dimming controls or other occupancy sensors. For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". Ex: SBG6 OCC BTP |
| BSL722 | Available with PM, MVOLT, 120, 208, 240, 277, 277X, 50000LM, 60000LM or 70000LM. Not available with any cord that includes a plug. Not available with NPP16 D ER or RPP20 D ER. Customer to connect to unswitched power in fixture. Please note the fixture will be required to be on 24/7 unless controls are used to turn the fixture off. |
| BSL722R, BSL722RC | DL (damp location) option required. Available with PM, MVOLT, 120, 208, 240, 277 or 277X. Not available with any cord that includes a plug. Not available with NPP16 D ER or RPP20 D ER. Customer to connect to unswitched power in fixture. Please note the fixture will be required to be on 24/7 unless controls are used to turn the fixture off. |
| CNP165CD, CNP165CDW | DL (damp location) option required. Available with PM or NDT only. Not available with dimming controls, dimming sensors or HKMW. 6' is standard, but other lengths are available. Must specify length in nomenclature. Example: CNP165CD3FT |
| CNP16W | DL (damp location) option required. Available with PM, NDT or QD. 6' is standard, but other lengths are available. Must specify length in the nomenclature. Example: CNP16W10FT. Damp Listed. |
| Damp Location Cord Sets | DL (damp location) option required. Available with PM, NDT or QD. Must specify hook. 6' is standard, but other lengths are available. Must specify length in the nomenclature. Example: CPTL16W3FT. NEMA plug configurations: CPTL style with 120V = L5-15P, 208V or 240V = L6-15P, 277V = L7-15P, CPTL20A style with 347V = L24-20P, 480V = L8-20P, CPSB style with 120V = 5-15P. |
| DBXD, DGXD, DNXD, DWHXD | Corrosion resistant finish is standard. |
| DIM | DL (damp location) option required. Not available with A0, dimming controls or dimming occupancy sensors. Screw used to attached to fixture will not be stainless steel. |
| DL | Required when damp location options are chosen. Luminaire is wet location listed only when ordered with wet location options. If luminaire is ordered with wet and additional damp location options, luminaire is damp location listed only. If luminaire is ordered with damp and additional dry location options, luminaire is dry location listed. |
| E15WCPR | DL (damp location) option required. Available with PM, 120, 277, 277X only. Not available with any cord that includes a plug. Available with 4 conductor cord by special order, but not required. Customer to connect to switched & unswitched power in fixture. Customer must install test switch in remote junction box (not included). |
| ETS | Available with PM, NDT, NR, MVOLT, 120, 208, 240, 277, HKMAR, LPMD, HKMD, NLIGHTAIR2: RSBG6, RSBG40, RIO only. Not available with HKMW, 347, 480, HVOLT, 347X, 480X, XVOLT, QD, QR, any cords or emergency driver options. |
| HCRTLDW16WWL3FTL515R | Connector (Receptacle) and cord for CPTL16WWLXFT cordset. 3ft. is standard. 120V only. Ships Separately. |
| HCRTLDW16WWL3FTL615R | Connector (Receptacle) and cord for CPTL16WWLXFT cordset. 3ft. is standard. 208/240V only. Ships Separately. |
| HCRTLDW16WWL3FTL715R | Connector (Receptacle) and cord for CPTL16WWLXFT cordset. 3ft. is standard. 277V only. Ships Separately. |
| HKMAR, HKMD, LPMD | DL (damp location) option required. Available with PM, NDT, or QD only. |
| HKMW | Available with PM only. Gasketed hook for use in wet locations. If combined with damp listed options, DL (damp location) option will be required. |
| HVOLT | Not available with 90000LM or 100000LM. |
| IE30WCPHER | DL (damp location) option required. Available with PM mount and 347, 480 and HVOLT only. Not available with any cord that includes a plug. Available with 4 conductor cord by special order, but not required. |
| Individual Dimming Sensors | Not available with A0, DIM, XVOLT, dimming controls or other occupancy sensors. For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". Ex: SBG10 D 3V |
| Individual Non-Dimming Sensors | Not available with XVOLT or other occupancy sensors. For 360° integral Low Mount sensors, replace "6" in nomenclature with "10". Ex: SBG10 |
| NDT | DL (damp location) option required. 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 | DL (damp location) option required. Available with 120, 277, 277X, 347, 347X only. Not available with A0, DIM, dimming controls or other occupancy sensors. |
| NLTAIR2 RPP20D | DL (damp location) option required. Not available with A0, DIM or other occupancy sensors. 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 | DL (damp location) option required. Not available with A0, DIM or other occupancy sensors. |
| NLTAIR2 RSBG6, NLTAIR2 RSBG10, NLTAIR2 RSBG40, NLTAIR2 RIO | Not available with XVOLT, 277X, 347X, 480V, AO, DIM or other occupancy sensors. If 90000LM or 100000LM is chosen, not available with HVOLT, 347, 480, XVOLT, 277X, 347X or 480X. |
| NLTAIR2 RSBG6 ER, NLTAIR2 RSBG10 ER, NLTAIR2 RSBG40 ER, NLTAIR2 RIO ER | Not available with HVOLT, 347, 480, XVOLT, 347X, 480X, AO, DIM, HKMW or other occupancy sensors. 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 |
| NR | DL (damp location) option required. Fixture is shipped without the top hanger to match existing in the field. Ordering this option assumes the top hanger is already installed. This is a for retrofit applications only. |
| OCS | Please note all modular wiring options are dry listed and fixture will have a dry listed label. Available with PM or NDT only. Must specify voltage. Actual Reloc® System Drop Cable used depends upon voltage chosen in the fixture nomenclature. Example: 277V = OCS 277 |

Option Value Ordering Restrictions continue next page.

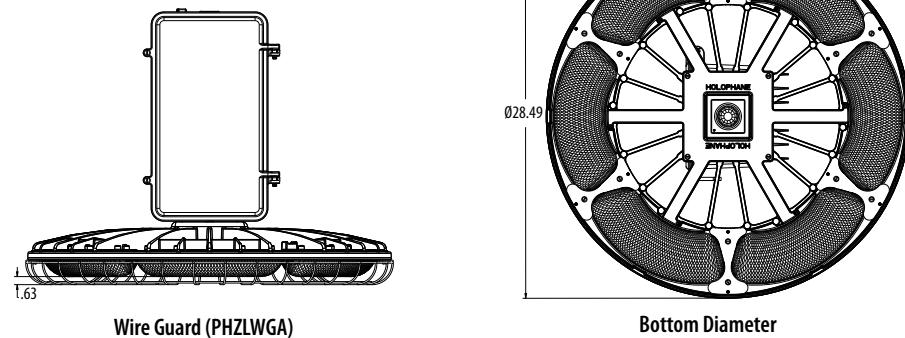
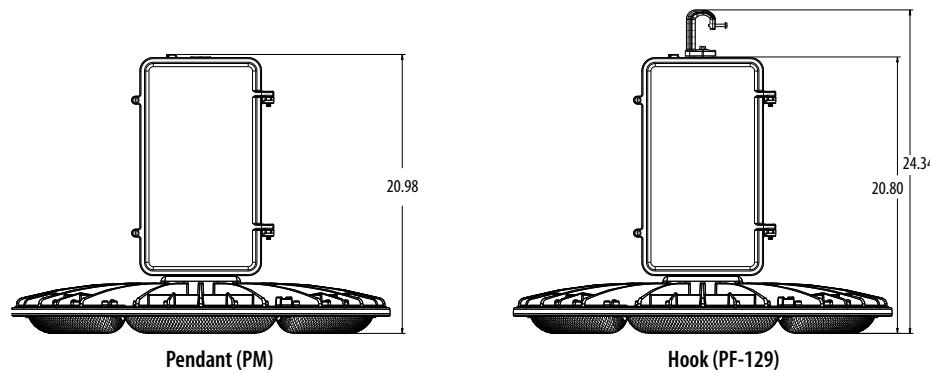
| ‡ Option Value Ordering Restrictions & Notes – continued | |
|---|--|
| Option value | Restriction |
| PHCB, PHCBL8480 | DL (damp location) option required. For new installations, order matching UPH accessory. For existing installations with UPH accessory, match PHCB voltage to existing UPH. |
| PHZLCHAIN XIN | X denotes length. Chain shipped separately as an accessory. Available in multiple sizes. Replace X with size in inches. Example: PHZLCHAIN 120IN = 120 inches or 10 feet. |
| PM | When ordered without a hook or loop, luminaire will be wet location listed. Customer will be responsible to ensure fixture is mounted appropriately to retain wet listing. |
| QD | DL (damp location) option required. Not available with E15WCPR, BSL722, BSL722R, BSL722RC or ETS. 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 on the fixture. The 2 part quick disconnect will include components to allow voltage to pass between the top and bottom portions. |
| QR | DL (damp location) option required. Shipped without top hanger (QDH). to match existing QDH in the field. Ordering this option assumes the top portion of the QD option (QDH) is already installed. This is for retrofit applications only. |
| SCKX | X denotes length. Available in multiple sizes. Replace X with size in inches. Example: SCK120 = 120 inches or 10 feet. |
| UPH 35SM L8480 DWHXD, UPH 36PM L8480 DWHXD | Available with 480 or 480X voltage only. PHCBL8480 option required on luminaire. |
| UPH 35SM XXX DWHXD, UPH 36PM XXX DWHXD | Must specify voltage. Not available MVOLT, HVOLT or XVOLT. XXX denotes voltage. PHCB option required on luminaire. |
| UPH Hangers | Must specify voltage. Damp Listed. Shipped separately from luminaire, requires PHCB. |
| Wet Location Cord Sets | Must specify voltage. Available with PM only. Must specify, HKMW hook required for wet location listing. 6' is standard, but other lengths are available. Must specify length in the nomenclature. Example: CPTL16WWL10FT. NEMA plug configurations: 120V = L5-15P, 208V or 240V = L6-15P, 277V = L7-15P. If combined with damp listed options, DL (damp location) option will be required. |
| Wet Location Cords (no plug) | Available with PM only. 6' is standard, but other lengths are available. Must specify length in the nomenclature. Example: CNP16WWL3FT. If combined with damp listed options, DL (damp location) option will be required. |
| XVOLT | Not available with 90000LM or 100000LM. |

BTP Default Settings

| Model | Default Operation | Occupancy Time Delay | Photocell Mode | Photocell Set-point | Low Trim | High Trim | Dim to Off Time Delay |
|------------------|--|----------------------|-------------------|---------------------|----------|-----------|-----------------------|
| SBG6 OCC BTP LT | On/Off Occupancy Only Disabled | 10 minutes | Disabled | n/a | n/a | 100% | Disabled |
| SBG10 OCC BTP LT | On/Off Occupancy Only Disabled | 10 minutes | Disabled | n/a | n/a | 100% | Disabled |
| SBG6 HL BTP LT | Occupancy w/ 0-10V Dimming (High/Low/Off) | 10 minutes | Disabled | n/a | 10% | 100% | 2.5 minutes |
| SBG10 HL BTP LT | Occupancy w/ 0-10V Dimming (High/Low/Off) | 10 minutes | Disabled | n/a | 10% | 100% | 2.5 minutes |
| SBG6 ADC BTP LT | Occupancy w/ Dim & Switch Photocell | 10 minutes | On/Off & Auto Dim | 50 fc | 10% | 100% | 0 seconds |
| SBG10 ADC BTP LT | Occupancy w/ Dim & Switch Photocell | 10 minutes | On/Off & Auto Dim | 50 fc | 10% | 100% | 0 seconds |
| SBG6 ANL BTP LT | Dim & Switch Photocell with High/Low Occupancy Operation | 10 minutes | On/Off & Auto Dim | 50 fc | 10% | 100% | Stay Dim/ Never Off |
| SBG10 ANL BTP LT | Dim & Switch Photocell with High/Low Occupancy Operation | 10 minutes | On/Off & Auto Dim | 50 fc | 10% | 100% | Stay Dim/ Never Off |

Number of LED Boards and Drivers Used

| Lumen Package | Number of LED Boards | Number of Drivers |
|---------------|----------------------|-------------------|
| 50000LM | 6 | 3 |
| 60000LM | 6 | 3 |
| 70000LM | 6 | 3 |
| 80000LM | 6 | 3 |
| 90000LM | 6 | 3 |
| 100000LM | 6 | 3 |

DIMENSIONAL DATA

2FT to Luminaire 2FT to Test Switch 2FT to Luminaire



E15WCPR Remote Battery
(self-diagnostic test switch can be mounted up
to 25' from battery, junction box not supplied)



IE30WCPR Remote Battery
(self-diagnostic test switch will be
installed on fixture)

OPERATIONAL DATA**Operating Characteristics**

| Lumen Package | Distribution | Input Watts | 3000K | | | 3500K | | | 4000K | | | 5000K | | | |
|---------------|--------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | | 70CRI | 80CRI | 90CRI | |
| 50000LM | FD | 322 | 43196 | 40373 | 31903 | 43196 | 41502 | 33314 | 47148 | 42914 | 36138 | 48560 | 43478 | 39526 | Lumens |
| | | | 134 | 125 | 99 | 134 | 129 | 103 | 146 | 133 | 112 | 151 | 135 | 123 | LPW |
| | FDFR | 322 | 39419 | 36843 | 29113 | 39419 | 37873 | 30402 | 43026 | 39161 | 32978 | 44314 | 39677 | 36070 | Lumens |
| | | | 122 | 114 | 90 | 122 | 118 | 94 | 134 | 122 | 102 | 138 | 123 | 112 | LPW |
| | FSMG | 322 | 43729 | 40871 | 43729 | 42014 | 33726 | 47730 | 43443 | 36584 | 49160 | 44015 | 40014 | 32297 | Lumens |
| | | | 136 | 127 | 136 | 130 | 105 | 148 | 135 | 114 | 153 | 137 | 124 | 100 | LPW |
| | MD | 322 | 46128 | 43113 | 34068 | 46128 | 44319 | 35576 | 50348 | 45826 | 38590 | 51856 | 46429 | 42208 | Lumens |
| | | | 143 | 134 | 106 | 143 | 138 | 110 | 156 | 142 | 120 | 161 | 144 | 131 | LPW |
| | MDFR | 322 | 42627 | 39841 | 31483 | 42627 | 40956 | 32876 | 46528 | 42349 | 35662 | 47921 | 42906 | 39005 | Lumens |
| | | | 132 | 124 | 98 | 132 | 127 | 102 | 144 | 132 | 111 | 149 | 133 | 121 | LPW |
| | ND | 322 | 46469 | 43432 | 34320 | 46469 | 44647 | 35839 | 50721 | 46165 | 38876 | 52240 | 46773 | 42521 | Lumens |
| | | | 144 | 135 | 107 | 144 | 139 | 111 | 158 | 143 | 121 | 162 | 145 | 132 | LPW |
| | NDA | 322 | 46881 | 43817 | 34625 | 46881 | 45043 | 36157 | 51171 | 46575 | 39221 | 52703 | 47188 | 42898 | Lumens |
| | | | 146 | 136 | 108 | 146 | 140 | 112 | 159 | 145 | 122 | 164 | 147 | 133 | LPW |
| | NDFR | 322 | 42651 | 39863 | 31500 | 42651 | 40978 | 32894 | 46554 | 42372 | 35682 | 47948 | 42930 | 39027 | Lumens |
| | | | 132 | 124 | 98 | 132 | 127 | 102 | 145 | 132 | 111 | 149 | 133 | 121 | LPW |
| | WD | 322 | 46153 | 43136 | 34087 | 46153 | 44343 | 35595 | 50376 | 45851 | 38611 | 51884 | 46454 | 42231 | Lumens |
| | | | 143 | 134 | 106 | 143 | 138 | 111 | 156 | 142 | 120 | 161 | 144 | 131 | LPW |
| | WDA | 322 | 47055 | 43980 | 34753 | 47055 | 45210 | 36291 | 51361 | 46748 | 39367 | 52899 | 47363 | 43057 | Lumens |
| | | | 146 | 137 | 108 | 146 | 140 | 113 | 160 | 145 | 122 | 164 | 147 | 134 | LPW |
| | WDFR | 322 | 40064 | 37445 | 29590 | 40064 | 38493 | 30899 | 43730 | 39802 | 33518 | 45039 | 40326 | 36660 | Lumens |
| | | | 124 | 116 | 92 | 124 | 120 | 96 | 136 | 124 | 104 | 140 | 125 | 114 | LPW |

| Lumen Package | Distribution | Input Watts | 3000K | | | 3500K | | | 4000K | | | 5000K | | | |
|---------------|--------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | | 70CRI | 80CRI | 90CRI | |
| 60000LM | FD | 390 | 51311 | 47957 | 37896 | 51311 | 49299 | 39573 | 56006 | 50976 | 42927 | 57683 | 51646 | 46951 | Lumens |
| | | | 132 | 123 | 97 | 132 | 126 | 101 | 144 | 131 | 110 | 148 | 132 | 120 | LPW |
| | FDFR | 390 | 46824 | 43764 | 34583 | 46824 | 44988 | 36113 | 51109 | 46518 | 39173 | 52639 | 47131 | 42846 | Lumens |
| | | | 120 | 112 | 89 | 120 | 115 | 93 | 131 | 119 | 100 | 135 | 121 | 110 | LPW |
| | FSMG | 390 | 51944 | 48549 | 38364 | 51944 | 49907 | 40062 | 56697 | 51605 | 43457 | 58395 | 52284 | 47531 | Lumens |
| | | | 133 | 124 | 98 | 133 | 128 | 103 | 145 | 132 | 111 | 150 | 134 | 122 | LPW |
| | MD | 390 | 54793 | 51212 | 40468 | 54793 | 52645 | 42259 | 59807 | 54435 | 45840 | 61598 | 55152 | 50138 | Lumens |
| | | | 140 | 131 | 104 | 140 | 135 | 108 | 153 | 140 | 118 | 158 | 141 | 129 | LPW |
| | MDFR | 390 | 50636 | 47326 | 37398 | 50636 | 48650 | 39052 | 55269 | 50305 | 42362 | 56924 | 50967 | 46333 | Lumens |
| | | | 130 | 121 | 96 | 130 | 125 | 100 | 142 | 129 | 109 | 146 | 131 | 119 | LPW |
| | ND | 390 | 55199 | 51591 | 40768 | 55199 | 53034 | 42572 | 60250 | 54838 | 46179 | 62054 | 55560 | 50509 | Lumens |
| | | | 142 | 132 | 105 | 142 | 136 | 109 | 154 | 141 | 118 | 159 | 142 | 130 | LPW |
| | NDA | 390 | 55689 | 52049 | 41130 | 55689 | 53505 | 42949 | 60784 | 55325 | 46589 | 62604 | 56053 | 50957 | Lumens |
| | | | 143 | 133 | 105 | 143 | 137 | 110 | 156 | 142 | 119 | 161 | 144 | 131 | LPW |
| | NDFR | 390 | 50664 | 47352 | 37418 | 50664 | 48677 | 39074 | 55300 | 50333 | 42385 | 56955 | 50995 | 46359 | Lumens |
| | | | 130 | 121 | 96 | 130 | 125 | 100 | 142 | 129 | 109 | 146 | 131 | 119 | LPW |
| | WD | 390 | 54823 | 51240 | 40490 | 54823 | 52673 | 42282 | 59840 | 54465 | 45865 | 61631 | 55182 | 50165 | Lumens |
| | | | 141 | 131 | 104 | 141 | 135 | 108 | 153 | 140 | 118 | 158 | 141 | 129 | LPW |
| | WDA | 390 | 55895 | 52242 | 41282 | 55895 | 53703 | 43109 | 61010 | 55530 | 46762 | 62837 | 56261 | 51146 | Lumens |
| | | | 143 | 134 | 106 | 143 | 138 | 111 | 156 | 142 | 120 | 161 | 144 | 131 | LPW |
| | WDFR | 390 | 47591 | 44480 | 35149 | 47591 | 45724 | 36704 | 51945 | 47280 | 39814 | 53501 | 47902 | 43547 | Lumens |
| | | | 122 | 114 | 90 | 122 | 117 | 94 | 133 | 121 | 102 | 137 | 123 | 112 | LPW |

OPERATIONAL DATA**Operating Characteristics**

| Lumen Package | Distribution | Input Watts | 3000K | | | 3500K | | | 4000K | | | 5000K | | | |
|---------------|--------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | | 70CRI | 80CRI | 90CRI | |
| 70000LM | FD | 477 | 61142 | 57146 | 45157 | 61142 | 58744 | 47155 | 66737 | 60743 | 51152 | 68735 | 61542 | 55947 | Lumens |
| | | | 128 | 120 | 95 | 128 | 123 | 99 | 140 | 127 | 107 | 144 | 129 | 117 | LPW |
| | FDFR | 477 | 55796 | 52149 | 41209 | 55796 | 53608 | 43032 | 60902 | 55431 | 46679 | 62725 | 56161 | 51055 | Lumens |
| | | | 117 | 109 | 86 | 117 | 112 | 90 | 128 | 116 | 98 | 131 | 118 | 107 | LPW |
| | FSMG | 477 | 61897 | 57851 | 45715 | 61897 | 59470 | 47738 | 67561 | 61492 | 51783 | 69584 | 62302 | 56638 | Lumens |
| | | | 130 | 121 | 96 | 130 | 125 | 100 | 142 | 129 | 109 | 146 | 131 | 119 | LPW |
| | MD | 477 | 65292 | 61025 | 48222 | 65292 | 62732 | 50356 | 71266 | 64865 | 54623 | 73400 | 65719 | 59744 | Lumens |
| | | | 137 | 128 | 101 | 137 | 132 | 106 | 149 | 136 | 115 | 154 | 138 | 125 | LPW |
| | MDFR | 477 | 60337 | 56394 | 44563 | 60337 | 57971 | 46535 | 65858 | 59943 | 50478 | 67830 | 60732 | 55211 | Lumens |
| | | | 126 | 118 | 93 | 126 | 122 | 98 | 138 | 126 | 106 | 142 | 127 | 116 | LPW |
| | ND | 477 | 65775 | 61476 | 48579 | 65775 | 63196 | 50728 | 71794 | 65345 | 55028 | 73943 | 66205 | 60186 | Lumens |
| | | | 138 | 129 | 102 | 138 | 132 | 106 | 151 | 137 | 115 | 155 | 139 | 126 | LPW |
| | NDA | 477 | 66359 | 62022 | 49010 | 66359 | 63756 | 51179 | 72431 | 65925 | 55516 | 74599 | 66792 | 60720 | Lumens |
| | | | 139 | 130 | 103 | 139 | 134 | 107 | 152 | 138 | 116 | 156 | 140 | 127 | LPW |
| | NDFR | 477 | 60371 | 56425 | 44588 | 60371 | 58004 | 46561 | 65895 | 59977 | 50507 | 67868 | 60766 | 55242 | Lumens |
| | | | 127 | 118 | 93 | 127 | 122 | 98 | 138 | 126 | 106 | 142 | 127 | 116 | LPW |
| | WD | 477 | 65327 | 61058 | 48248 | 65327 | 62766 | 50383 | 71305 | 64901 | 54653 | 73440 | 65754 | 59777 | Lumens |
| | | | 137 | 128 | 101 | 137 | 132 | 106 | 149 | 136 | 115 | 154 | 138 | 125 | LPW |
| | WDA | 477 | 66605 | 62252 | 49192 | 66605 | 63993 | 51369 | 72700 | 66170 | 55722 | 74876 | 67040 | 60946 | Lumens |
| | | | 140 | 131 | 103 | 140 | 134 | 108 | 152 | 139 | 117 | 157 | 141 | 128 | LPW |
| | WDFR | 477 | 56709 | 53003 | 41883 | 56709 | 54485 | 43736 | 61898 | 56338 | 47443 | 63751 | 57080 | 51891 | Lumens |
| | | | 119 | 111 | 88 | 119 | 114 | 92 | 130 | 118 | 99 | 134 | 120 | 109 | LPW |

| Lumen Package | Distribution | Input Watts | 3000K | | | 3500K | | | 4000K | | | 5000K | | | |
|---------------|--------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | | 70CRI | 80CRI | 90CRI | |
| 80000LM | FD | 549 | 68754 | 64261 | 50779 | 68754 | 66058 | 53026 | 75046 | 68305 | 57520 | 77293 | 69204 | 62913 | Lumens |
| | | | 125 | 117 | 92 | 125 | 120 | 97 | 137 | 124 | 105 | 141 | 126 | 115 | LPW |
| | FDFR | 549 | 62743 | 58642 | 46339 | 62743 | 60282 | 48390 | 68484 | 62333 | 52491 | 70534 | 63153 | 57412 | Lumens |
| | | | 114 | 107 | 84 | 114 | 110 | 88 | 125 | 114 | 96 | 128 | 115 | 105 | LPW |
| | FSMG | 549 | 69603 | 65054 | 51406 | 69603 | 66874 | 53681 | 75972 | 69148 | 58230 | 78247 | 70058 | 63689 | Lumens |
| | | | 127 | 118 | 94 | 127 | 122 | 98 | 138 | 126 | 106 | 143 | 128 | 116 | LPW |
| | MD | 549 | 73421 | 68622 | 54226 | 73421 | 70542 | 56625 | 80139 | 72941 | 61424 | 82538 | 73901 | 67182 | Lumens |
| | | | 134 | 125 | 99 | 134 | 128 | 103 | 146 | 133 | 112 | 150 | 135 | 122 | LPW |
| | MDFR | 549 | 67849 | 63415 | 50111 | 67849 | 65189 | 52328 | 74058 | 67406 | 56763 | 76275 | 68293 | 62084 | Lumens |
| | | | 124 | 116 | 91 | 124 | 119 | 95 | 135 | 123 | 103 | 139 | 124 | 113 | LPW |
| | ND | 549 | 73964 | 69130 | 54627 | 73964 | 71063 | 57044 | 80732 | 73481 | 61878 | 83149 | 74447 | 67680 | Lumens |
| | | | 135 | 126 | 100 | 135 | 129 | 104 | 147 | 134 | 113 | 151 | 136 | 123 | LPW |
| | NDA | 549 | 74620 | 69743 | 55112 | 74620 | 71694 | 57550 | 81448 | 74133 | 62427 | 83887 | 75108 | 68280 | Lumens |
| | | | 136 | 127 | 100 | 136 | 131 | 105 | 148 | 135 | 114 | 153 | 137 | 124 | LPW |
| | NDFR | 549 | 67887 | 63450 | 50139 | 67887 | 65225 | 52357 | 74099 | 67444 | 56795 | 76318 | 68331 | 62119 | Lumens |
| | | | 124 | 116 | 91 | 124 | 119 | 95 | 135 | 123 | 103 | 139 | 124 | 113 | LPW |
| | WD | 549 | 73461 | 68659 | 54255 | 73461 | 70580 | 56656 | 80183 | 72981 | 61457 | 82583 | 73941 | 67219 | Lumens |
| | | | 134 | 125 | 99 | 134 | 129 | 103 | 146 | 133 | 112 | 150 | 135 | 122 | LPW |
| | WDA | 549 | 74897 | 70002 | 55316 | 74897 | 71960 | 57764 | 81751 | 74408 | 62659 | 84198 | 75387 | 68534 | Lumens |
| | | | 136 | 128 | 101 | 136 | 131 | 105 | 149 | 136 | 114 | 153 | 137 | 125 | LPW |
| | WDFR | 549 | 63769 | 59601 | 47098 | 63769 | 61269 | 49182 | 69604 | 63352 | 53349 | 71688 | 64186 | 58351 | Lumens |
| | | | 116 | 109 | 86 | 116 | 112 | 90 | 127 | 115 | 97 | 131 | 117 | 106 | LPW |

OPERATIONAL DATA**Operating Characteristics**

| Lumen Package | Distribution | Input Watts | 3000K | | | 3500K | | | 4000K | | | 5000K | | | |
|---------------|--------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| | | | 70CRI | 80CRI | 90CRI | |
| 90000LM | FD | 624 | 75297 | 70376 | 55612 | 75297 | 72344 | 58072 | 82187 | 74805 | 62994 | 84648 | 75789 | 68899 | Lumens |
| | | | 121 | 113 | 89 | 121 | 116 | 93 | 132 | 120 | 101 | 136 | 121 | 110 | LPW |
| | FDFR | 624 | 68713 | 64222 | 50749 | 68713 | 66019 | 52995 | 75001 | 68264 | 57486 | 77246 | 69162 | 62875 | Lumens |
| | | | 110 | 103 | 81 | 110 | 106 | 85 | 120 | 109 | 92 | 124 | 111 | 101 | LPW |
| | FSMG | 624 | 76227 | 71244 | 56298 | 76227 | 73237 | 58789 | 83202 | 75728 | 63771 | 85693 | 76725 | 69750 | Lumens |
| | | | 122 | 114 | 90 | 122 | 117 | 94 | 133 | 121 | 102 | 137 | 123 | 112 | LPW |
| | MD | 624 | 80408 | 75152 | 59386 | 80408 | 77254 | 62014 | 87765 | 79882 | 67269 | 90393 | 80933 | 73576 | Lumens |
| | | | 129 | 120 | 95 | 129 | 124 | 99 | 141 | 128 | 108 | 145 | 130 | 118 | LPW |
| | MDFR | 624 | 74306 | 69449 | 54880 | 74306 | 71392 | 57308 | 81105 | 73820 | 62165 | 83534 | 74792 | 67992 | Lumens |
| | | | 119 | 111 | 88 | 119 | 114 | 92 | 130 | 118 | 100 | 134 | 120 | 109 | LPW |
| | ND | 624 | 81003 | 75708 | 59825 | 81003 | 77826 | 62473 | 88415 | 80473 | 67767 | 91062 | 81532 | 74120 | Lumens |
| | | | 130 | 121 | 96 | 130 | 125 | 100 | 142 | 129 | 109 | 146 | 131 | 119 | LPW |
| | NDA | 624 | 81721 | 76380 | 60356 | 81721 | 78516 | 63027 | 89199 | 81187 | 68368 | 91870 | 82255 | 74778 | Lumens |
| | | | 131 | 122 | 97 | 131 | 126 | 101 | 143 | 130 | 110 | 147 | 132 | 120 | LPW |
| | NDFR | 624 | 74347 | 69488 | 54910 | 74347 | 71432 | 57340 | 81150 | 73862 | 62199 | 83580 | 74833 | 68030 | Lumens |
| | | | 119 | 111 | 88 | 119 | 114 | 92 | 130 | 118 | 100 | 134 | 120 | 109 | LPW |
| | WD | 624 | 80451 | 75193 | 59418 | 80451 | 77296 | 62047 | 87813 | 79925 | 67306 | 90442 | 80977 | 73616 | Lumens |
| | | | 129 | 121 | 95 | 129 | 124 | 99 | 141 | 128 | 108 | 145 | 130 | 118 | LPW |
| | WDA | 624 | 82025 | 76664 | 60580 | 82025 | 78808 | 63261 | 89530 | 81489 | 68622 | 92211 | 82561 | 75055 | Lumens |
| | | | 131 | 123 | 97 | 131 | 126 | 101 | 143 | 131 | 110 | 148 | 132 | 120 | LPW |
| | WDFR | 624 | 69838 | 65273 | 51579 | 69838 | 67099 | 53862 | 76228 | 69381 | 58426 | 78510 | 70294 | 70722 | Lumens |
| | | | 112 | 105 | 83 | 112 | 108 | 86 | 122 | 111 | 94 | 126 | 113 | 113 | LPW |

| Lumen Package | Distribution | Input Watts | 3000K | | | 3500K | | | 4000K | | | 5000K | | | |
|---------------|--------------|-------------|-------|-------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|--------|
| | | | 70CRI | 80CRI | 90CRI | 70CRI | 80CRI | 90CRI | 70CRI | 80CRI | 90CRI | 70CRI | 80CRI | 90CRI | |
| 100000LM | FD | 762 | 86855 | 81178 | 64148 | 86855 | 83449 | 66986 | 94803 | 86287 | 72663 | 97641 | 87423 | 79475 | Lumens |
| | | | 114 | 107 | 84 | 114 | 110 | 88 | 124 | 113 | 95 | 128 | 115 | 104 | LPW |
| | FDFR | 762 | 79261 | 74080 | 58539 | 79261 | 76153 | 61129 | 86513 | 78743 | 66310 | 89104 | 79779 | 72526 | Lumens |
| | | | 104 | 97 | 77 | 104 | 100 | 80 | 114 | 103 | 87 | 117 | 105 | 95 | LPW |
| | FSMG | 762 | 87927 | 82180 | 64940 | 87927 | 84479 | 67813 | 95973 | 87353 | 73560 | 98846 | 88502 | 80456 | Lumens |
| | | | 115 | 108 | 85 | 115 | 111 | 89 | 126 | 115 | 97 | 130 | 116 | 106 | LPW |
| | MD | 762 | 92750 | 86688 | 68502 | 92750 | 89113 | 71533 | 101237 | 92144 | 77595 | 104268 | 93356 | 84869 | Lumens |
| | | | 122 | 114 | 90 | 122 | 117 | 94 | 133 | 121 | 102 | 137 | 123 | 111 | LPW |
| | MDFR | 762 | 85712 | 80110 | 63304 | 88027 | 82351 | 66105 | 93555 | 85152 | 71707 | 96356 | 86272 | 78429 | Lumens |
| | | | 112 | 105 | 83 | 116 | 108 | 87 | 123 | 112 | 94 | 126 | 113 | 103 | LPW |
| | ND | 762 | 93436 | 87329 | 69008 | 93436 | 89772 | 72062 | 101986 | 92826 | 78169 | 105039 | 94047 | 85497 | Lumens |
| | | | 123 | 115 | 91 | 123 | 118 | 95 | 134 | 122 | 103 | 138 | 123 | 112 | LPW |
| | NDA | 762 | 94265 | 88104 | 69621 | 94265 | 90569 | 72701 | 102891 | 93649 | 78862 | 105971 | 94881 | 86256 | Lumens |
| | | | 124 | 116 | 91 | 124 | 119 | 95 | 135 | 123 | 103 | 139 | 125 | 113 | LPW |
| | NDFR | 762 | 85760 | 80154 | 63339 | 85760 | 82397 | 66141 | 93607 | 85199 | 71747 | 96410 | 86320 | 78473 | Lumens |
| | | | 113 | 105 | 83 | 113 | 108 | 87 | 123 | 112 | 94 | 127 | 113 | 103 | LPW |
| | WD | 762 | 92800 | 86735 | 68539 | 92800 | 89161 | 71572 | 101292 | 92194 | 77637 | 104325 | 93407 | 84915 | Lumens |
| | | | 122 | 114 | 90 | 122 | 117 | 94 | 133 | 121 | 102 | 137 | 123 | 111 | LPW |
| | WDA | 762 | 94615 | 88431 | 69879 | 94615 | 90905 | 72971 | 103273 | 93997 | 79155 | 106365 | 95234 | 86576 | Lumens |
| | | | 124 | 116 | 92 | 124 | 119 | 96 | 136 | 123 | 104 | 140 | 125 | 114 | LPW |
| | WDFR | 762 | 80558 | 75292 | 59497 | 80558 | 77398 | 62129 | 87929 | 80031 | 67395 | 90561 | 81084 | 73713 | Lumens |
| | | | 106 | 99 | 78 | 106 | 102 | 82 | 115 | 105 | 88 | 119 | 106 | 97 | LPW |

OPERATIONAL DATA CONTINUED

| How to Estimate Delivered Lumens in Emergency Mode | | | | | | |
|---|--|--|--|--|--|--|
| Use the formula below to estimate the delivered lumens in emergency mode | | | | | | |
| Delivered Lumens = P x LPW | | | | | | |
| P = Output power of emergency driver. | | | | | | |
| LPW = Lumen per watt rating of the luminaire. (See charts on Page 6) | | | | | | |
| The LPW rating is also available at Designdlight Consortium . | | | | | | |
| P = 15W for E15WCPR | | | | | | |
| P = 23.1W for BSL722 | | | | | | |
| P = 23.1W for BSL722R | | | | | | |
| P = 23.1W for BSL722RC | | | | | | |
| P = 30W for IE30WCPR | | | | | | |

EMERGENCY LUMEN OUTPUT EXAMPLE - 15 WATT BATTERY

| Approximate Luminaire Efficacy | Approximate lumens at 1 Minute | Approximate lumens at 45 Minute | Approximate lumens at 90 Minutes |
|--------------------------------|--------------------------------|---------------------------------|----------------------------------|
| 100 LPW | 1500 | 1500 | 1500 |
| 110 LPW | 1650 | 1650 | 1650 |
| 120 LPW | 1800 | 1800 | 1800 |
| 130 LPW | 1950 | 1950 | 1950 |
| 140 LPW | 2100 | 2100 | 2100 |
| 150 LPW | 2250 | 2250 | 2250 |

LAT Factors

| Ambient | 50000LM | 60000LM | 70000LM | 80000LM | 90000LM | 100000LM |
|---------|---------|---------|---------|---------|---------|----------|
| 25 | 100% | 100% | 100% | 100% | 100% | 100% |
| 30 | 99% | 99% | 99% | 99% | 99% | 99% |
| 35 | 98% | 98% | 98% | 98% | 98% | 98% |
| 40 | 97% | 97% | 97% | 97% | 97% | 97% |
| 45 | 97% | 96% | 96% | 96% | NA | NA |
| 50 | 96% | 96% | 95% | 95% | NA | NA |
| 55 | 95% | 95% | 94% | NA | NA | NA |
| 60 | 94% | 94% | NA | NA | NA | NA |
| 65 | 93% | NA | NA | NA | NA | NA |

Impact Resistance (IK Ratings)

| Lens | Ratings |
|---------|---------|
| Glass | IK06 |
| Acrylic | IK07 |

Ambient Temperature Limit Chart ‡

| PHZL | Lumen Package | Voltage ‡ | Base Fixture | OCC Sensor | Field Adjustable Output | nLight | BSL722/BSL722C | BSL722R/BSL722RC | E15WCPR | ETS | IE30WCPR |
|-----------------|---------------|-----------|--------------|------------|-------------------------|--------|----------------|------------------|---------|-----|----------|
| Ceiling Pendant | 50000LM | 120-277V | 65 ‡ | 55 | 55 | 40 | 35 | 45 | 40 | 55 | NA |
| | | 347-480V | 65 ‡ | 55 | 55 | 40 | NA | NA | NA | NA | 45 |
| | 60000LM | 120-277V | 60 | 55 | 55 | 40 | 35 | 45 | 40 | 55 | NA |
| | | 347-480V | 60 | 55 | 55 | 40 | NA | NA | NA | NA | 45 |
| | 70000LM | 120-277V | 55 | 50 | 55 | 40 | 30 | 45 | 40 | 50 | NA |
| | | 347-480V | 55 | 50 | 55 | 40 | NA | NA | NA | NA | 45 |
| | 80000LM | 120-277V | 50 | 50 | 55 | 40 | NA | 45 | 35 | 50 | NA |
| | | 347-480V | 50 | 50 | 55 | 40 | NA | NA | NA | NA | 45 |
| | 90000LM | 120-277V | 40 | 40 | 40 | 25 | NA | 40 | NA | NA | NA |
| | | 347-480V | 40 | 40 | 30 | NA | NA | NA | NA | NA | 40 |
| | 100000LM | 120-277V | 40 | 40 | 40 | 25 | NA | 40 | NA | NA | NA |
| | | 347-480V | 40 | 40 | 30 | NA | NA | NA | NA | NA | 40 |

‡ Notes

| | |
|---------------------------------|--|
| 65 | 149°F (65°C) max ambient with glass optics and 140°F (60°C) max ambient with acrylic optics. |
| Ambient Temperature Limit Chart | -40°F (-40°C) min ambient. |
| Voltage | Voltage shown includes MVOLT (120-277V), HVOLT (347-480V) and XVOLT (277-480V). |

OPERATIONAL DATA CONTINUED**PERFORMANCE WITH AO* Field Adjustable Output**

| Lumens | FAO Position | Light Output | Power Consumption |
|----------|--------------|--------------|-------------------|
| 50000LM | 1 | 22% | 18% |
| | 2 | 35% | 31% |
| | 3 | 47% | 43% |
| | 4 | 60% | 55% |
| | 5 | 71% | 68% |
| | 6 | 83% | 80% |
| | 7 | 94% | 93% |
| | 8 | 100% | 100% |
| 60000LM | 1 | 21% | 18% |
| | 2 | 35% | 30% |
| | 3 | 47% | 42% |
| | 4 | 60% | 54% |
| | 5 | 72% | 67% |
| | 6 | 83% | 80% |
| | 7 | 95% | 93% |
| | 8 | 100% | 100% |
| 70000LM | 1 | 22% | 17% |
| | 2 | 35% | 30% |
| | 3 | 48% | 41% |
| | 4 | 61% | 54% |
| | 5 | 73% | 67% |
| | 6 | 84% | 80% |
| | 7 | 95% | 93% |
| | 8 | 100% | 100% |
| 80000LM | 1 | 22% | 17% |
| | 2 | 36% | 29% |
| | 3 | 49% | 41% |
| | 4 | 61% | 54% |
| | 5 | 73% | 67% |
| | 6 | 84% | 80% |
| | 7 | 95% | 93% |
| | 8 | 100% | 100% |
| 90000LM | 1 | 22% | 16% |
| | 2 | 36% | 29% |
| | 3 | 50% | 41% |
| | 4 | 62% | 54% |
| | 5 | 74% | 67% |
| | 6 | 85% | 80% |
| | 7 | 95% | 93% |
| | 8 | 100% | 100% |
| 100000LM | 1 | 23% | 16% |
| | 2 | 37% | 28% |
| | 3 | 51% | 40% |
| | 4 | 64% | 53% |
| | 5 | 76% | 66% |
| | 6 | 86% | 80% |
| | 7 | 96% | 93% |
| | 8 | 100% | 100% |

OPERATIONAL DATA CONTINUED**Lumen Maintenance - PHZL 50000LM**

| Ambient | 0 Hours | 15,000 Hours | 30,000 Hours | 45,000 Hours | 60,000 Hours | 100,000 Hours |
|---------|---------|--------------|--------------|--------------|--------------|---------------|
| 25 | 1.00 | 0.97 | 0.96 | 0.96 | 0.95 | 0.93 |
| 30 | 1.00 | 0.97 | 0.96 | 0.96 | 0.95 | 0.93 |
| 35 | 1.00 | 0.97 | 0.96 | 0.95 | 0.95 | 0.93 |
| 40 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 45 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 50 | 1.00 | 0.96 | 0.95 | 0.95 | 0.94 | 0.91 |
| 55 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.91 |
| 60 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 65 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |

Lumen Maintenance - PHZL 80000LM

| Ambient | 0 Hours | 15,000 Hours | 30,000 Hours | 45,000 Hours | 60,000 Hours | 100,000 Hours |
|---------|---------|--------------|--------------|--------------|--------------|---------------|
| 25 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 30 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 35 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.91 |
| 40 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 45 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 50 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.89 |

Lumen Maintenance - PHZL 60000LM

| Ambient | 0 Hours | 15,000 Hours | 30,000 Hours | 45,000 Hours | 60,000 Hours | 100,000 Hours |
|---------|---------|--------------|--------------|--------------|--------------|---------------|
| 25 | 1.00 | 0.97 | 0.96 | 0.95 | 0.95 | 0.93 |
| 30 | 1.00 | 0.97 | 0.96 | 0.95 | 0.95 | 0.92 |
| 35 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 40 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 45 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.91 |
| 50 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 55 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 60 | 1.00 | 0.96 | 0.95 | 0.94 | 0.92 | 0.89 |

Lumen Maintenance - PHZL 90000LM

| Ambient | 0 Hours | 15,000 Hours | 30,000 Hours | 45,000 Hours | 60,000 Hours | 100,000 Hours |
|---------|---------|--------------|--------------|--------------|--------------|---------------|
| 25 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 30 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.91 |
| 35 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 40 | 1.00 | 0.96 | 0.95 | 0.95 | 0.94 | 0.90 |

Lumen Maintenance - PHZL 70000LM

| Ambient | 0 Hours | 15,000 Hours | 30,000 Hours | 45,000 Hours | 60,000 Hours | 100,000 Hours |
|---------|---------|--------------|--------------|--------------|--------------|---------------|
| 25 | 1.00 | 0.97 | 0.96 | 0.95 | 0.95 | 0.93 |
| 30 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 35 | 1.00 | 0.97 | 0.96 | 0.95 | 0.94 | 0.92 |
| 40 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.91 |
| 45 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 50 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 55 | 1.00 | 0.96 | 0.95 | 0.94 | 0.92 | 0.90 |

Lumen Maintenance - PHZL 100000LM

| Ambient | 0 Hours | 15,000 Hours | 30,000 Hours | 45,000 Hours | 60,000 Hours | 100,000 Hours |
|---------|---------|--------------|--------------|--------------|--------------|---------------|
| 25 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 30 | 1.00 | 0.96 | 0.95 | 0.94 | 0.93 | 0.90 |
| 35 | 1.00 | 0.96 | 0.94 | 0.93 | 0.92 | 0.89 |
| 40 | 1.00 | 0.95 | 0.93 | 0.91 | 0.89 | 0.84 |

COMPONENTS & OPTIONS DATA



LPFD (PF-116) Loop



HKFD (PF-122-A) Hook



HKMAR (PF-129-A) Hook



HKMW (PF-291) Hook

OCS Reloc® One Pass®
Drop Cable

SBGR Sensor

SBG BTP Sensor with SMHB
Smarthub BTP Control ModulenLight Wired NPP16 D
Power PacknLight Wired NPP16 D
ER Power PacknLight Air RPP20 D
Power PacknLight Air RPP20 D ER
Power Pack

nLight Air RSBG Sensor

nLight Air RIO Control
ModuleAO Adjustable
Output Module