

Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat. #: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Quantity: \_\_\_\_\_

LED

## PBL A G2 8N | LED Aisle High Bay

### Features:

- High performance LED technology
- 0-10V dimming drivers standard
- DALI drivers available
- Field replaceable LED boards and drivers
- A wide variety of lumen packages allows for flexibility in design and helps maximize energy savings
- Enhanced specular reflector designed to provide even vertical illumination on shelving and maximize lighting in the aiseways
- Buy American Act compliant *(All base luminaires are BAA compliant. Addition of options may change eligibility. Contact factory for details)*

### Applications:

- Suitable for most commercial, industrial and institutional applications
- Warehouse aisles
  - Corridors
  - Cold/Frozen Storage *(cold temperature rules apply. Refer to warranty document at [www.lumenfocus.com/support](http://www.lumenfocus.com/support) for details)*

### Ambient Operating Temp.:

- -30°C to 45°C

### Construction:

- Housing is precision brake formed from heavy gauge cold rolled steel with highly durable white finish
- LED tray is precision brake formed from highly reflective aluminum

### Certifications:

- UL 1598 listed for US and Canada, suitable for damp locations
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) <http://designlights.org/>



**10 YEAR**  
 EXTENDED  
 WARRANTY  
 AVAILABLE ON  
 CERTAIN MODELS

### Predicted L70 Lifetime:

- L70: 174,000 hrs (calculated)
- L80: 107,000 hrs (calculated)
- L90: 49,000 hrs (reported)
- 86% lumen maintenance @ 72,000 hrs *(based on LM80 and insitu laboratory testing)*

### Warranty:

- 5 year limited system warranty - see [www.LumenFocus.com](http://www.LumenFocus.com) for complete warranty terms and conditions
- 10 year warranty option available on specific models *(Not available on all models. Certain conditions apply. Consult factory or sales representative for details.)*



Ordering Guide:

example: PBL A G2 8N MD UV 850 QC C6 OS

| Series | Version     | Length                 | Output          | Voltage       | CRI/CCT             | Hanging                          | Controls   | Options   |
|--------|-------------|------------------------|-----------------|---------------|---------------------|----------------------------------|--|---|
| PBL A  | G2          | 8N                     |                 |               |                     |                                  |  |   |
| PBL A  | G2<br>Gen 2 | 8N<br>8' - Narrow Body | VL<br>Very Low  | UV<br>120-277 | 835<br>80 CRI/3500K | Blank<br>None                    | Blank<br>No Controls   | Blank<br>No Options   |
|        |             |                        | LW<br>Low       | 34<br>347V    | 840<br>80 CRI/4000K | QC<br>10' Quick Hang Cable Kit   | ZOS<br>Occupancy Sensor (On/Off)   | EXT10<br>10-Year Extended Warranty <sup>(5)</sup>           |
|        |             |                        | MD<br>Medium    | 48<br>480V    | 850<br>80 CRI/5000K | QC20<br>20' Quick Hang Cable Kit | ZOSD<br>Occupancy Sensor (On/Off/Dim)  | C6<br>6' Single Circuit Cord                                |
|        |             |                        | HI<br>High      |               |                     |                                  | ZOFD1<br>Leviton Bluetooth-enabled Programmable Dimming/Occupancy/Daylight Harvesting Sensor with Grouping (120-277V) <sup>(1)</sup> | C65W<br>6' Single Circuit Cord with Low Voltage Connections |
|        |             |                        | VH<br>Very High |               |                     |                                  | ZOFD1<br>Leviton Bluetooth-enabled Programmable Dimming/Occupancy/Daylight Harvesting Sensor with Grouping (120-277V) <sup>(1)</sup> | C10<br>10' Single Circuit Cord                              |


Notes

- <sup>(1)</sup> For 8' to 40' mounting heights. See Page 4 for more details.  
<sup>(2)</sup> " " = lens type. See Page 4 for lens descriptions.  
<sup>(3)</sup> 120-277V Only. Max ceiling height is 50 feet. See page 4 for more details.  
<sup>(4)</sup> Max ceiling height for Enlighted Ruggedized sensor 50 feet. See Page 5 for more details on advanced controls.  
<sup>(5)</sup> Not available on all models. Certain conditions apply. Consult factory or sales representative for details.  
<sup>(6)</sup> 120-277V / 0°C-55°C ambient. To estimate lumen output in emergency mode, multiply EM wattage by the Lumens per Watt of the luminaire it is installed in.  
ex. PBL A G2 8N MD UV 850 EM14 → 171.0 LPW x 14W = 2,394 lm


Accessories (order separately)

- WG(PBLA8N) Wire Guard  
WGE(PBLA8N) Extended Wire Guard for use with end-mounted sensor


Controls Accessories (order separately)



**For Enlighted Controls**  
WS-2-00 Enlighted Remote Control Wall Switch (for Enlighted Connected & IoT)



**For Z221BL\_ Sensor**  
FSIR-100 Wireless Configuration Tool



**For ZOSMHB Sensor**  
ZLSOR Wireless Configuration Tool

**Z221BL\_**  
Wattstopper Programmable Photo/Motion Multi-Voltage Sensor (high/low/off)<sup>(2)</sup>

**Z321BL\_**  
Wattstopper Bluetooth-enabled Programmable Photo/Motion Multi-Voltage Sensor (high/low/off)<sup>(2)</sup>

**ZPC**  
Photocell

**ZOSMHB**  
Leviton High Bay Microwave 0-10V Multi-Level Occupancy Sensor with Photocell <sup>(3)</sup>

**ZENLC**  
Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted Connected System<sup>(4)</sup>

**ZENLI**  
Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted IoT System<sup>(4)</sup>

**Blank**  
No Controls

**ZOS**  
Occupancy Sensor (On/Off)

**ZOSD**  
Occupancy Sensor (On/Off/Dim)

**ZOFD1**  
Leviton Bluetooth-enabled Programmable Dimming/Occupancy/Daylight Harvesting Sensor with Grouping (120-277V)<sup>(1)</sup>

**ZOFDU**  
Leviton Bluetooth-enabled Programmable Dimming/Occupancy/Daylight Harvesting Sensor with Grouping, Scheduling (120-480V)<sup>(1)</sup>

**D6**  
6' Dual Circuit Cord

**D10**  
10' Dual Circuit Cord

**P(NEMA)**  
Plug (Specify NEMA configuration)

**SC**  
Safety Cable

**F**  
Fuse

**EM6**  
6.5W Emergency Pack<sup>(6)</sup>

**EM10**  
10W Emergency Pack<sup>(6)</sup>

**EM14**  
14W Emergency Pack<sup>(6)</sup>

**SDT(480V)**  
480V to 277V Step Down Transformer

**CC**  
Conformal Coating

**LVL**  
0-10V Dimming Leads for Easy Field Access

**AC**  
Aligner Clips for Continuous Row Mounting

**BAA**  
Buy American Act Compliant



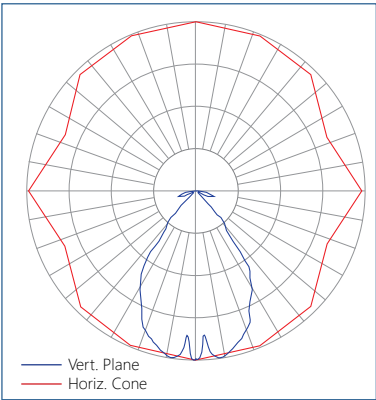
Performance Chart:

| Catalog #             | Watts | Lumens (835) | LPW (835) | Lumens (840) | LPW (840) | Lumens (850) | LPW (850) |
|-----------------------|-------|--------------|-----------|--------------|-----------|--------------|-----------|
| PBL A G2 8N VL UV 8xx | 66.8  | 11356.4      | 170.1     | 11966.7      | 179.2     | 11966.7      | 179.2     |
| PBL A G2 8N LW UV 8xx | 91.9  | 15100.9      | 164.3     | 15912.4      | 173.1     | 15912.4      | 173.1     |
| PBL A G2 8N MD UV 8xx | 117.2 | 19014.6      | 162.2     | 20036.5      | 171.0     | 20036.5      | 171.0     |
| PBL A G2 8N HI UV 8xx | 141.5 | 22786.7      | 161.0     | 24011.3      | 169.7     | 24011.3      | 169.7     |
| PBL A G2 8N VH UV 8xx | 172.5 | 27228.4      | 157.8     | 28691.6      | 166.3     | 28691.6      | 166.3     |

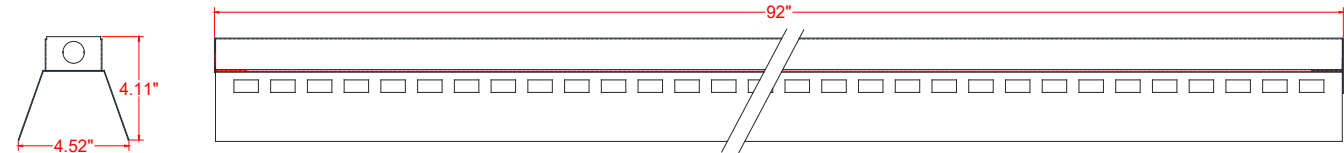
Lumen Adjustment Factors: WG: 0.95

Photometric Data:

Relative Luminous Intensity



Schematic:

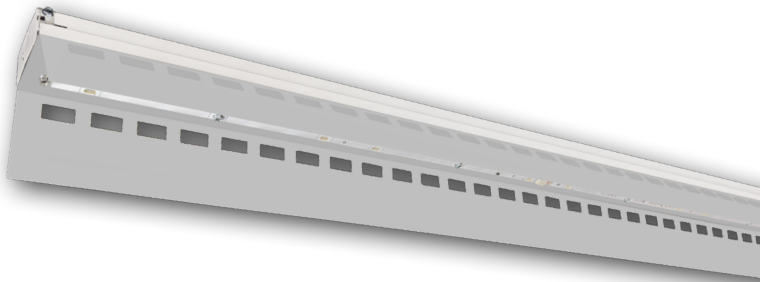


LUMENFOCUS  
Re-boardABILITY

The PBL A G2 features field replaceable boards and drivers. This allows you to upgrade to more efficient technology in the future. Or, in the rare event of a failure, you can rapidly replace defective components. Re-boardABILITY helps to ensure you won't get stuck with an obsolete light fixture. [Learn more about Re-boardABILITY here.](#)



[Click here for a video demonstration of the re-boarding process on a PBL.](#)  
Note: Exact time varies depending on the model.



## Controls Summary:

| Control Code | Type                              | Capabilities  | Communication   |
|--------------|-----------------------------------|---|---|
| ZOS          | Motion (PIR)                      | On/Off  | Wired   |
| ZOSD         | Motion (PIR), Photosensor         | On/Low/Off  | Wired 1-10V   |
| ZOFD1        | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim, Grouping   | Wired 0-10V, Programmable via Bluetooth App (iOS, Android)                  |
| ZOFDU        | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim, Grouping, Scheduling   | Wired 0-10V, Programmable via Bluetooth App (iOS, Android)                  |
| Z221BLx      | Motion (PIR), Photosensor         | High/Low/Off, High-End Trim   | Wired 0-10V, Programmable via IR remote (sold separately)                   |
| Z321BLx      | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim   | Wired 0-10V, Programmable via Bluetooth App (iOS, Android)                  |
| ZOSMHB       | Motion (Microwave), Photosensor   | On/Low/Off  | Wired 0-10V, Programmable via ZLS0R IR remote (sold separately)             |
| ZPC          | Photosensor                       | On/Off  | Wired   |
| ZENLC        | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitoring*, BMS Integration*, Upgradable to IoT (ZENLI), LLC (Enlighted IoT)*   | Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software |
| ZENLI        | Motion (PIR), Daylight Harvesting | High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitoring*, BMS Integration*, LLC (Enlighted IoT)*, Space - Building Utilization*, Where - Real Time Location Services* | Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software |

LLC = Luminaire Level Lighting Control

\* Additional equipment required. Contact LumenFocus representative for details



### ZOSMHB Sensor Option

- Provides occupancy detection and multi-level control with adjustable time-outs
- Tri-level dimming control
- Comes pre-installed on the end cap
- Suitable for cold storage locations
- Built-in photocell reads brightness values. Sensor does not switch luminaire on if there is sufficient ambient light
- Control parameters selected manually via DIP switches, or using the optional ZLS0R remote (sold separately) - adjustable parameters include sensitivity, hold time, lux level, stand-by light level, stand-by hold time
- Maximum mounting height of 50 feet, with adjustable coverage radius up to 30 feet



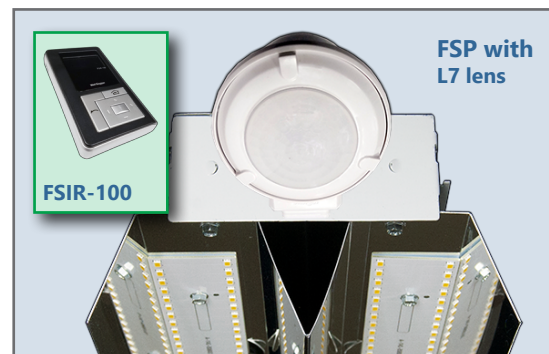
**ZLS0R**



The ZOFD option includes four sensor lenses that can easily be installed or swapped out in the field. From left: the high bay lens (20'-40' mounting), the high bay lens with aisleway mask, the low bay lens (8'-20' mounting), and the low bay lens with aisleway mask.

### ZOFDx Sensor Option

- Leviton Smart IP66 passive infrared (PIR) sensors
- Features mesh grouping (16 devices per group), occupancy sensing, daylight harvesting, scheduling (for ZOSFDU only), single-level switching
- Comes pre-installed on the end cap
- Rated for cold locations
- Configurable through the Leviton Smart Sensor App using a smartphone or other Bluetooth-enabled iOS or Android device



### Z221B and Z321B Sensor Options

- The Wattstopper FSP sensor provides multi-level control based on motion and/or daylight contribution
- Comes pre-installed on the end cap
- Rated for cold locations
- Parameters for Bluetooth-enabled Z321B adjustable via phone app - iOS or Android
- Parameters for Z221B adjustable via wireless configuration tool (FSIR-100 - sold separately)
- Three lenses available, tailored for the ideal detection area and mounting height:
  - L2:** 360° lens, maximum coverage 48', diameter from 8' height
  - L3:** 360° lens, maximum coverage 40', diameter from 20' height
  - L7:** 360° lens, maximum coverage 100', diameter from 40' height



## Enlighted: All-in-one sensors, upgradeable systems

Enlighted's IP65-rated Ruggedized Sensor is an all-in-one unit: task tuning, high-end trimming, daylight harvesting, and occupancy/vacancy detection. Max installation height is 50 feet.

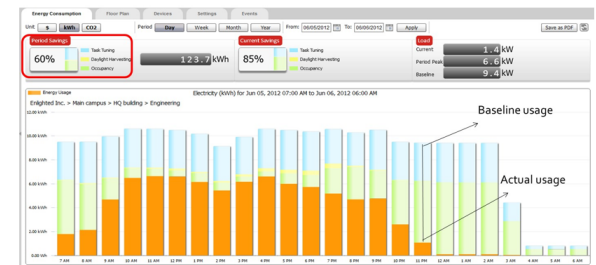
Enlighted Connected ("ZENLC") offers many features, including motion and switch groups, daylight harvesting, energy reporting, and more. The Enlighted IoT ("ZENLI") option allows the full implementation of Enlighted's services. Enlighted Connected can be fully upgraded to the next tier in the future. So if you start with ZENLC but want to add the functionality of the ZENLI option, you can.



## Real-time data analytics

Enlighted's control units compile data in real-time, which can be viewed via the Energy Manager. The Energy Manager is part of the Enlighted Connected and Enlighted IoT configurations.

- Real-time measurements and verification of energy savings
- Space analytics - data can be compiled into motion trails and heat maps
- Analyze traffic density and congestion in a space



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| Enlighted Capabilities*                  | Enlighted Connected (ZENLC) | Enlighted IoT (ZENLI) |
|--|-----------------------------|-----------------------|
| Motion and Switch Groups                 | ✓                           | ✓                     |
| Daylight Harvesting                      | ✓                           | ✓                     |
| Schedule Lighting                        | ✓                           | ✓                     |
| Energy Reporting & Optimization          | ✓                           | ✓                     |
| Environment Data & Lighting Controls API | ✓                           | ✓                     |
| Building Management System Integration   | ✓                           | ✓                     |
| Where & Space Applications               |                             | ✓                     |
| Location & Occupancy APIs & Beacons      |                             | ✓                     |
| Future App & API Ready                   |                             | ✓                     |

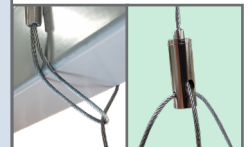
## Other Options:



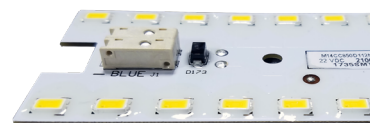
**Cords** are available in single circuit or dual circuit, 6' or 10'. Standard plug is optional, as are other NEMA configurations if specified.



**Safety cables** affix directly to the luminaire and provide a sturdy cable hanging alternative.



**Hanging** The QC hanging kit from ALP comes in 10' or 20'. Cables are pre-looped for easy installation and designed for easy fixture height adjustment. QCs come boxed with each fixture.



**Conformal coating** Grants LED boards added protection from moisture and corrosion in more hazardous environments.

