





PBL X G2 4 | LED Lensed High Bay

Features:

- High performance LED technology
- 0-10V dimming drivers standard on all models
- Field replaceable LED boards and drivers through Re-boardABILITY (more info on Page 3)
- Multiple shielding options available to help minimize glare and improve aesthetics
- A wide variety of lumen packages allows for flexibility in design and helps maximize energy savings
- Multiple controls options available
- 90+ CRI standard
- 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

- Retail
- Warehouse
- Manufacturing
- Gymnasiums

Predicted Lifetime:

- L70 \geq 129,000 hrs (calculated)
- L90 ≥ 39,000 hrs (reported) (based on LM-80, TM-21 and in-situ laboratory testing)

Construction:

- Housing and LED tray is precision brake formed from aluminum
- Pre-painted with a highly durable, highly reflective white finish

Certifications:

 UL 1598 listed for US and Canada, suitable for damp locations



Warranty:

- 5 year limited system warranty see <u>www.LumenFocus.com</u> 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.)













Orderi	ing Gu	ide:						example: PBL X	(G2 4 MD UV A23F 94	0-QC20 C
Series	Version	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options	Finish
PBLX	G 2	4								
PBL X	G2 Gen 2	4 4'	VL Very Low LW Low MD Medium HI High VH Very High	UV 120-277 34 347V 48 480V	A23 High Efficiency 23 Pattern Acrylic A23F High Efficiency 23 Pattern Acrylic, Frosted L118 0.118' Impact Resistant Lexan	930 90 CRI/3000K 935 90 CRI/3500K 940 90 CRI/4000K 950 90 CRI/5000K	Blank None QC 10' Quick Hang Cable Kit QC20 20' Quick Hang Cable Kit	Blank Blank No Controls ZOS Occupancy Sensor (On/Off) ZOSD Occupancy Sensor (On/Off/Dim) ZOFD1 Leviton Bluetooth-enabled Programmable Dimming/	Blank No Options EXT10 10-Year Extended Warranty ⁽⁵⁾ C6 6' Single Circuit Cord C65W 6' Single Circuit Cord with Low Voltage Connections C10 10' Single Circuit Cord	Blank White BK Matte Black SL Metallic Silver
(5) Not availa Consult fa (6) 120-277V emergency of the lumi	type. See Pa Only. Max of ails. g height for 6 for more of able on all mactory or sal	age 5 for le ceiling heig Enlighted details on a nodels. Cert es represer ambient. To ciply EM wat alled in.	ens descripti ht is 50 feet Ruggedizec advanced co tain condition tative for do estimate lur tage by the	ons. t. See page d sensor 50 ontrols. ons apply. etails. men output i Lumens per	5 for feet. n Watt			Occupancy/Daylight Harvesting Sensor with Grouping (120-277V) ⁽¹⁾ ZOFDU Leviton Bluetooth-enabled Programmable Dimming/ Occupancy/Daylight Harvesting Sensor with Grouping, Scheduling (120- 480V) ⁽¹⁾ Z221BL_ Wattstopper Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾ Z321BL_	C105W 10' Single Circuit Cord with Low Voltage Connections D6 6' Dual Circuit Cord D10 10' Dual Circuit Cord P(NEMA) Plug (Specify NEMA configuration) WG Wire Guard WGE	
WS	r Enlighted -2-00 -2-00-IL r Z221BL_ S	Controls Enlighted F (for Enlight Enlighted F (for Enlight ensor	Remote Con ed Connect Remote Con	rtrol Wall Sw ed & IoT) trol Wall Sw	vitch			Wattstopper Bluetooth- enabled Programmable Dimming/Occupancy/ Daylight Harvesting Multi- Voltage Sensor (2) ZOSMHB Leviton High Bay Microwave 0-10V Multi-Level Occupancy Sensor with Photocell (3) ZPC Photocell	Extended Wire Guard for End-Mounted Sensor SC Safety Cable F Fuse EM6 6.5W Emergency Pack(6)	

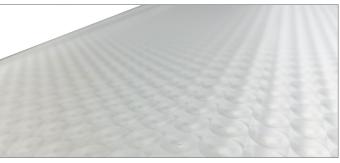






For ZOSMHB Sensor

ZLSOR Wireless Configuration Tool



ZENLO

Enlighted Ruggedized Sensor with Dimming/Occupancy/ Daylight Harvesting and Enlighted One System⁽⁴⁾

ZENLC

Enlighted Ruggedized Sensor with Dimming/Occupancy/ Daylight Harvesting and Enlighted Connected System⁽⁴⁾

ZENLI

Enlighted Ruggedized Sensor with Dimming/Occupancy/ Daylight Harvesting and Enlighted IoT System⁽⁴⁾

EM10 10W Emergency Pack⁽⁶⁾

EM14

14W Emergency Pack⁽⁶⁾

EM20

20W Emergency Pack⁽⁶⁾

SDT(480V)

480V to 277V Step Down Transformer

CC

Conformal Coating

0-10V Dimming Leads for Easy Field Access

BAA

Buy American Act Compliant



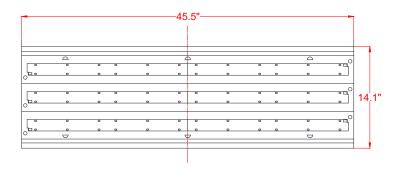


Performance Chart:

Catalog #	Watts	Lumens (930)	LPW (930)	Lumens (935)	LPW (935)	Lumens (940)	LPW (940)	Lumens (950)	LPW (950)
PBL X G2 4 VL UV A23F 9xx	82.7	11895.2	143.8	11945.3	144.4	12229.0	147.8	12229.0	147.8
PBL X G2 4 LW UV A23F 9xx	115.9	16069.1	138.7	16136.9	139.2	16520.1	142.5	16520.1	142.5
PBL X G2 4 MD UV A23F 9xx	148.4	19993.8	134.7	20078.1	135.3	20554.9	138.5	20554.9	138.5
PBL X G2 4 HI UV A23F 9xx	172.7	23769.1	137.6	23869.3	138.2	24436.2	141.5	24436.2	141.5
PBL X G2 4 VH UV A23F 9xx	197.8	27772.3	140.4	27889.4	141.0	28551.8	144.3	28551.8	144.3

Lumen Adjustment Factors: WG: 0.95

Schematic:







The PBL X 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.

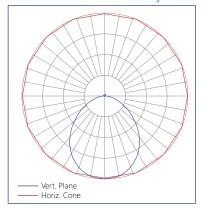


Click here for a video demonstration of the re-boarding process on a PBL.

Note: Exact time varies depending on the model.

Photometric Data:

Relative Luminous Intensity









Controls Summary:

Control Code	Туре	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 ZLSOR IR remote (sold separately)		
ZPC	Photosensor	On/Off	Wired		
ZENLO	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Upgradable to Connected (ZENLC) or IoT (ZENLI)	Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted Room Controller WS-2-00-IL (sold separately)		
ZENLC	Motion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitoring*, BMS Integration*, Upgradable to IoT (ZENLI), LLLC (Enlighted IoT)*	Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software		
ZENLI	MoMotion (PIR), Daylight Harvesting	High/Low/Off, High-End Trim, Grouping, Scheduling*, Energy Monitoring*, BMS Integration*, LLLC (Enlighted IoT)*, Space - Building Utilization*, Where - Real Time Location Services*	Wireless Bluetooth Low Energy Mesh, Programmable via Enlighted IoT Software		

LLLC = Luminaire Level Lighting Control

Programmable Dimming Sensors:

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



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.



Z221B, 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





Left: Phone app interface for Z321B

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 suffcient ambient light
- Control parameters selected manually via DIP switches, or using the optional ZLSOR 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





^{*} Additional equipment required. Contact LumenFocus representative for details



Enlighted: All-in-one sensors, upgradeable systems

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

Enlighted sensors come standard with the Enlighted
One system (the "ZENLO" option). Enlighted
Connected ("ZENLC") offers even more options.
The Enlighted IoT ("ZENLI") option allows the full
implementation of Enlighted's services. Each system
can be fully upgraded to the next tier in the future. So if
you start with Enlighted One but want to add energy reporting
or building management systems integration in the future, you can.

Enlighted Capabilities*	Enlighted One (ZENLO)	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 & Beaconing			✓
Future App & API Ready			✓

Note: Additional equipment required for ZENLC and ZENLI

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



Learn more about our available advanced controls options here:

www.lumenfocus.com/controls-overview

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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.



Shielding Available in a high efficiency 23 pattern acrylic lens (frosted or clear), and an impact resistant clear lexan lens



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



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.

