





PBL G2 HD-2W | Premium LED Heavy Duty High Bay

Features:

- High performance LED technology
- 0-10V dimming drivers standard on all models - dimmable to <10% on all models, with most dimmable to 1%
- DALI drivers available based on configuration
- Field replaceable LED boards and drivers through Re-boardABILITY (more info on Page 3)
- Frosted diffusers 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
- The PBL G2's unibody design is surface mountable with easy access to the driver compartment from below
- 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

- Gymnasiums
- Recreation Centers
- Manufacturing
- Warehouse
- Cold/Frozen Storage (cold temperature rules apply. Refer to warranty document at www.lumenfocus.com/support for details)

Ambient Operating Temp.:

• -30°C to 50°C

Construction:

- Housing is precision brake formed from heavy duty 0.063" aluminum
- Pre-painted with a highly durable, highly reflective white finish

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/





Predicted Lifetime:

- L70: 172,000 hrs (calculated)
- L80: 106,000 hrs (calculated)
- L90: 48,000 hrs (reported)
- 86% lumen maintenance @ 72,000 hrs (based on LM-80, TM-21 and in-situ laboratory testing)

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)











Occupancy/Daylight

Harvesting Sensor with Grouping, Scheduling

(120-480V)⁽¹⁾

Z221BL

Wattstopper Programmable

Photo/Motion Multi-Voltage

Sensor (high/low/off)⁽²⁾

Z321BL_

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

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⁾

Cord with Low

Voltage Connections

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⁽⁶⁾

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

LVL

0-10V Dimming Leads for Easy Field Access BAA Buy American Act Compliant



Ordering Guide:

example: PBL G2 2W HI UV 850 HDW PM ZOSD BK

									11ptc: 1 bz 0z z 11 0 1		2000 0
Series	Length	Output	Performance	Voltage	Shielding	CRI/CCT	Gauge	Hanging	Controls	Options	Finish
PBL G2	2W						HDW				
PBL G2 Gen 2 Premium High Bay	2W 2'	HI High VH Very High SH Super High	Blank Standard HE High Efficiency (Available in HI model only) Blank Standard	UV 120-277 34 347V 48 480V	Blank No Lenses FR Frosted Acrylic Diffusers	835 80 CRI/3500K 840 80 CRI/4000K 850 80 CRI/5000K	HDW Heavy Duty 0.063" Aluminum Wide-Body Housing	Blank None QC 10' Quick Hang Cable Kit QC20 20' Quick Hang Cable Kit PM Pendant Mount	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	Blank White BK Matte Black SL Metallic Silver
		super riigii						ST(x) 3/4" Stem (Specify Length)	Occupancy/Daylight Harvesting Sensor with Grouping (120-277V) ⁽¹⁾ ZOFDU Leviton Bluetooth-enabled Programmable Dimming/	C10 10' Single Circuit Cord C105W 10' Single Circuit	

Notes

- (1) For 8' to 40' mounting heights. See Page 5 for more details.
- (2) " " = lens type. See Page 5 for lens descriptions.
- (3) 120-277V Only. Max ceiling height is 50 feet. See page 5 for
- (4) Max ceiling height for Enlighted Ruggedized sensor 50 feet. See Page 6 for more details on advanced controls.
- (5) Not available on all models. Certain conditions apply. Consult factory or sales representative for details.

 (6) 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 G2 2W HI UV 850 HDW EM14 \rightarrow 172.4 LPW x 14W = 2,414 lm

Accessories (order separately)

WG(PBL2W) Wire Guard

WGE(PBL2W) Extended Wire Guard for use with end-mounted sensor

Controls Accessories (order separately)



For Enlighted Controls

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



For Z221BL_ Sensor

FSIR-100 Wireless Configuration Tool



For ZOSMHB Sensor

ZLSOR Wireless Configuration Tool





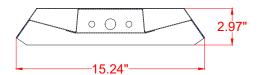


Performance Chart:

Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW
PBL G2 2W HI HE UV 835	17164	99	173.3	PBL G2 2W HI HE UV 840	17779	99	179.5	PBL G2 2W HI HE UV 850	17779	99	179.5
PBL G2 2W HI UV 835	17257	104	166.4	PBL G2 2W HI UV 840	17876	104	172.4	PBL G2 2W HI UV 850	17876	104	172.4
PBL G2 2W VH UV 835	19461	117	166.0	PBL G2 2W VH UV 840	20159	117	171.9	PBL G2 2W VH UV 850	20159	117	171.9
PBL G2 2W SH UV 835	23458	142	164.6	PBL G2 2W SH UV 840	24299	142	170.5	PBL G2 2W SH UV 850	24299	142	170.5
PBL G2 2W HI HE UV FR 835	16131	99	162.9	PBL G2 2W HI HE UV FR 840	16709	99	168.7	PBL G2 2W HI HE UV FR 850	16709	99	168.7
PBL G2 2W HI UV FR 835	16224	104	156.4	PBL G2 2W HI UV FR 840	16805	104	162.0	PBL G2 2W HI UV FR 850	16805	104	162.0
PBL G2 2W VH UV FR 835	18295	117	156.0	PBL G2 2W VH UV FR 840	18951	117	161.6	PBL G2 2W VH UV FR 850	18951	117	161.6
PBL G2 2W SH UV FR 835	22042	142	155.0	PBL G2 2W SH UV FR 840	22832	142	160.5	PBL G2 2W SH UV FR 850	22832	142	160.5

Lumen Adjustment Factors: WG: 0.95

Schematic:







The PBL G2 HD 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:

PBL	C2	214	CII	1111/	025
PDL	UZ.	$\angle VV$	ЭП	UV	033

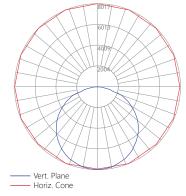
Average Angle In Áverage Average Test No.: LLIA001249-003 45-Deg Degrees 0-Deg 90-Deg Luminaire Lumens: 23,458 lm 34164 33914 33908 45 55 65 75 85 Luminaire Watts: 142.5W 33148 33328 33163 Efficacy: 164.6 LPW 32021 23235 30168 31125 Spacing Criterion (0-180): 1.30 24381 27439 Spacing Criterion (90-270): 1.28 9822 9476 10858

Luminance Data (cd/sq.m)

Coefficients Of Utilization - Zonal Cavity Method **Effective Floor Cavity Reflectance 0.20**

RC		80				70				50			30	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62
4	82	70	61	55	80	69	61	54	66	59	54	64	58	53
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35
8	60	46	38	32	59	46	38	32	44	37	32	43	36	31
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08



Zonal Lume	n Summary	
Zone	Lumens	%Fixt
0-20	2930.9	12.5
0-30	6261.2	26.7
0-40	10338.0	44.1
0-60	18583.9	79.2
0-80	23174.8	98.8
0-90	23454.0	100.0
90-120	3.9	0.0
90-130	3.9	0.0
90-150	3.9	0.0
90-180	3.9	0.0
0-180	23457.9	100.0

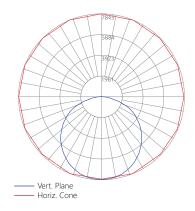
PBL G2 2W SH UV FR 835

Luminance Data (cd/sq.m) Angle In Average Áverage Average Test No.: LLIA001249-002A 45-Deg 90-Deg Degrees 0-Deg Luminaire Lumens: 22,042 lm 29407 31438 32685 Luminaire Watts: 142.3W 55 25611 30095 32308 Efficacy: 155.0 LPW 65 75 20794 28540 32133 Spacing Criterion (0-180): 1.24 15573 27340 25578 Spacing Criterion (90-270): 1.28 19841 19446 9624

Coefficients Of Utilization - Zonal Cavity Method **Effective Floor Cavity Reflectance 0.20**

RC		80				70				50			30	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29
10	53	40	32	26	52	39	32	26	38	31	26	37	31	26

Tested in accordance with IES standards utilizing absolute photometry per LM-79-08



Zonal Lumen	Summary	
Zone	Lumens	%Fixt
0-20	2861.1	13.0
0-30	6072.5	27.5
0-40	9929.1	45.0
0-60	17404.4	79.0
0-80	21600.3	98.0
0-90	22027.0	99.9
90-120	15.4	0.1
90-130	15.4	0.1
90-150	15.4	0.1
90-180	15.4	0.1
0-180	22042.3	100.0





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
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.



FSIR-100

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

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 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.

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 & Beaconing		✓
Future App & API Ready		✓

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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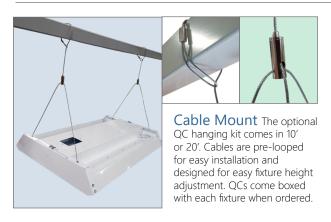


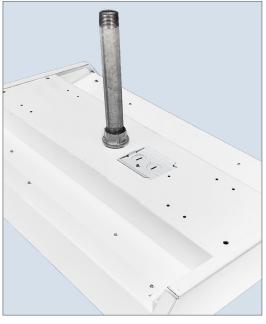
Mounting:



Surface Mount

The PBL G2 is designed to be easily mounted to any sturdy surface. Simply remove the hex head screws holding the driver cover (top picture, in green) to access the bottom of the housing below. The housing can be mounted to the surface from the four holes in each corner of the channel (bottom picture, circled).





Pendant Mount The PBL G2 HD can be pendant mounted with optional 3/4" hub. Stem also available as an option.

Other Options:



Shielding Frosted acrylic diffuser lenses minimize glare and improve aesthetics.



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

Conformal coating Grants LED boards added

protection from moisture and corrosion in more hazardous environments.



Finish

In addition to the standard white finish, the PBL G2 is also available in matte black (BK) and metallic silver (SL).





