LumenFécus



Project:
Location:
Cat. #:
Туре:
Quantity:



PBL G2 2 | Premium LED 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

- Retail
- Warehouse
- Manufacturing

• Cold/Frozen Storage (cold temperature rules apply. Refer to warranty document at <u>www.lumenfocus.com/support</u> for details)

Ambient Operating Temp.:

• -30°C to 50°C

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
- DesignLights Consortium qualified on specific configurations (refer to DLC qualified products list for exact model numbers) http://designlights.org/



Predicted Lifetime:

- L70: 174,000 hrs (calculated)
- L80: 108,000 hrs (calculated)
- L90: 49,000 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)









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Ordering Guide:

BLG2 2	1							
BL G2 2 Gen 2 2'	MD Medium	UV 120-277	Blank No Lenses	835 80 CRI/3500K	Blank None	Blank No Controls	Blank No Options	Blank
Premium High Bay	мн	34	FR	840	QC	ZOS	EXT10	ВК
	Medium High	347V	Frosted Acrylic Diffusers	80 CRI/4000K	10' Quick Hang Cable Kit	Occupancy Sensor (On/Off)	10-Year Extended Warranty ⁽⁵⁾	Matte Bla
		48 480V		850 80 CRI/5000K	QC20 20' Quick Hang	ZOSD Occupancy Sensor	C6 6' Single Circuit Cord	SL Metallic Si
					Cable Kit	(On/Off/Dim)	C65W 6' Single Circuit Cord with Low	
						ZOFD1 Leviton Bluetooth-enabled	Voltage Connections	
						Programmable Dimming/ Occupancy/Daylight Harvesting	C10 10' Single Circuit Cord	
						Sensor with Grouping (120-277V) ⁽¹⁾	C105W	
						ZOFDU	10' Single Circuit Cord with Low Voltage Connections	
otes						Leviton Bluetooth-enabled Programmable Dimming/	D6	
or 8' to 40' mount	ing heights.	See Page 5	for more deta	ails.		Occupancy/Daylight Harvesting Sensor with Grouping, Scheduling	6' Dual Circuit Cord D10	
" = lens type. See 20-277V Only. Ma				for		(120-480V) ⁽¹⁾ Z221BL	10' Dual Circuit Cord	
nore details. Max ceiling height	for Enlighted	Ruggedize	d sensor 50 fe	et.		Wattstopper Programmable Photo/Motion Multi-Voltage	P(NEMA) Plug (Specify NEMA configuration)	
See Page 6 for mo Not available on al	re details on a I models. Cer	advanced c tain conditi	ontrols. ons apply.			Sensor (high/low/off) ⁽²⁾	SC	
Consult factory or M2 - Up to 16W. 1	sales represe	ntative for o	details.			Z321BL_ Wattstopper Bluetooth-enabled	Safety Cable	
	20 211 4 7 0	e so e anic				Programmable Dimming/ Occupancy/Daylight Harvesting	F Fuse	
						Multi-Voltage Sensor ⁽²⁾	EM2	
ccessories		eparatel	y)			ZOSMHB Leviton High Bay Microwave 0-10V	Emergency Pack ⁽⁶⁾	
· ·	Guard ded Wire Gu	ard for use	with end-mou	inted sensor		Multi-Level Occupancy Sensor with Photocell ⁽³⁾	SDT(480V) 480V to 277V Step Down Transformer	
						ZPC Photocell	CC	
ontrols Ac	cessori	es (ord	er separat	ely)		ZENLO	Conformal Coating	
For Enlight WS-2-00		Remote Co	ntrol Wall Swit	ch		Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight	LVL 0-10V Dimming Leads for Easy Field	
WS-2-00-IL	(for Enligh	ted Connec				Harvesting and Enlighted One System ⁽⁴⁾	Access	
W5 2 00 12	(for Enlight					ZENLC	BAA Buy American Act Compliant	
For Z221BL			- T I			Enlighted Ruggedized Sensor with Dimming/Occupancy/		
FSIR-100	wireless C	onfiguratio	1 1001			Daylight Harvesting and Enlighted Connected System ⁽⁴⁾		
For ZOSMH	IB Sensor					ZENLI Enlighted Ruggedized Sensor with		
ZLSOR		onfiguratio	n Tool			Dimming/Occupancy/Daylight Harvesting and Enlighted IoT		
						System ⁽⁴⁾		
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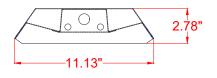
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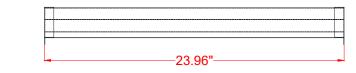
Performance Chart:

Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW
PBL G2 2 MD UV 835	11706	71	164.2	PBL G2 2 MD UV 840	12126	71	170.1	PBL G2 2 MD UV 850	12126	71	170.1
PBL G2 2 MH UV 835	13674	85	160.7	PBL G2 2 MH UV 840	14164	85	166.5	PBL G2 2 MH UV 850	14164	85	166.5
PBL G2 2 MD UV FR 835	11005	71	154.3	PBL G2 2 MD UV FR 840	11399	71	159.9	PBL G2 2 MD UV FR 850	11399	71	159.9
PBL G2 2 MH UV FR 835	12789	85	150.5	PBL G2 2 MH UV FR 840	13247	85	155.9	PBL G2 2 MH UV FR 850	13247	85	155.9

Lumen Adjustment Factors: WG: 0.95

Schematic:





Re-board ABILITY

The PBL 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 <u>Re-boardABILITY here.</u>





<u>Click here for a video demonstration of the</u> <u>re-boarding process on a PBL.</u> Note: Exact time varies depending on the model.





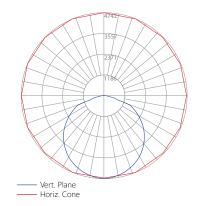
© 2023 LumenFocus, LLC. LumenFocus reserves the right to change specifications without notice. Consult factory for most up to date specifications. www.lumenfocus.com 880 Facet Rd. | Henderson, NC 27537 252-430-6970 PBL G2_2_LED_v2.9 Page 3 of 7

Photometric Data:

PBL G2 2 MH UV 835		e Data (cd/s Average	q.m) Average	Average
Test No.: LLIA001249-009-R01 Luminaire Lumens: 13,674 lm	Degrees	0-Deg	45-Deg	90-Deg
Luminaire Watts: 85.1W	45 55	27663 26763	27058 26395	27033 26671
Efficacy: 160.7 LPW Spacing Criterion (0-180): 1.30	65 75	24655 19869	24988 21636	26403 16470
Spacing Criterion (90-270): 1.28	85	7602	4777	5786

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	97	106	102	98	95	98	95	92	94	92	89
2		99	91	84	79	97	89	83	78	86	80	76	82	78	74
3		90	80	72	65	88	78	71	65	75	69	63	72	67	62
4		83	71	62	55	80	69	61	55	67	60	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	42	36	63	50	42	36	49	41	36	47	41	36
8		60	47	38	32	59	46	38	32	45	37	32	43	37	32
9		56	43	35	29	55	42	34	29	41	34	29	40	33	29
10		53	39	32	26	51	39	31	26	38	31	26	37	30	26



Zonal Lumen	Summary	
Zone	Lumens	%Fixt
0-20	1729.2	12.6
0-30	3686.1	27.0
0-40	6078.9	44.5
0-60	10908.7	79.8
0-80	13544.3	99.0
0-90	13670.3	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	13674.2	100.0

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

PBL G2 2 MH UV FR 835

Test No.: LLIA001249-007A Luminaire Lumens: 12,789 lm Luminaire Watts: 85.0W Efficacy: 150.5 LPW Spacing Criterion (0-180): 1.24 Spacing Criterion (90-270): 1.28

45 55 65 20405 16649 75 85 12551 7535

Luminance Data (cd/sq.m)

Average

0-Deg

23385

Angle In Degrees

Average 45-Deg

24877

23973 22990

21409

16214

Average

90-Deg

25922 25803

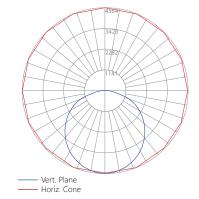
26028

18759

14061

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	94	91	88
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62
4	83	70	62	55	80	69	61	55	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



Zonal Lumen Summary %Fixt Zone Lumens 0-20 1661.5 13.0 0-30 3523.7 27.6 0-40 5759.9 45.0 0-60 10112.5 79.1 0-80 12549.2 98.1 12785.2 0-90 100.0 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 12789.0 100.0

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



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

* Additional equipment required. Contact LumenFocus representative for details

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

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



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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	~	✓	1
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: <u>www.lumenfocus.com/controls-overview</u>

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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).





Cable Mount The optional QC hanging kit 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 when ordered.

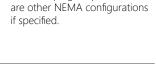
Other Options:



Shielding Frosted acrylic diffuser lenses minimize glare and improve aesthetics.



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



Cords are available in single

circuit or dual circuit, 6' or 10'.

Standard plug is optional, as



Finish

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







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