





PBL 4 | 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

Applications:

Suitable for most commercial, industrial and institutional applications

- Retail
- Warehouse
- Manufacturing
- Cold/Frozen Storage

Ambient Operating Temp.:

• -30°C to 40°C

Predicted L70 Lifetime:

- Up to 189,000 hrs (calculated) (L70 information for specific configurations available upon request)
- For BAA compliant configurations up to 189,000 hrs (calculated)

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/





Warranty:

- 5 year limited system warranty see www.LumenFocus.com for complete warranty terms and conditions
- specific models (Not available on all models. Certain conditions













Orden	Ordering Guide: example: PBL 4 HI UV 850 QC20 OSD C6									
Series	Length	Output	Performance	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options	Finish
PBL	4									
PBL	4 4'	SL Super Low	Blank Standard	UV 120-277	Blank No Lenses	835 80 CRI/3500K	Blank None	Blank No Controls	Blank No Options	Blank White
		VL Very Low	HE High Efficiency	34 347V ⁽¹⁾	FR Frosted Acrylic	840 80 CRI/4000K	QC 10' Quick Hang	ZOS Occupancy Sensor	EXT10 10-Year Extended	BK Matte Black
		LW	,	48	Diffusers	850	Cable Kit	(On/Off)	Warranty ⁽⁵⁾	SL
		Low MD		480V ⁽¹⁾		80 CRI/5000K	QC20 20' Quick Hang Cable Kit	ZOSD Occupancy Sensor (On/Off/Dim)	C6 6' Single Circuit Cord	Metallic Silver
		Medium					SM	Z221BL_	C65W	
		HI High					Surface Mount	Wattstopper Programmable Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾	6' Single Circuit Cord with Low Voltage Connections	
								Z321BL_	C10	
								Wattstopper Bluetooth- enabled Programmable	10' Single Circuit Cord	
Notes								Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾	C105W	
step-down	transforme	er in an appl	ntly only available ication where 347\					ZPC	10' Single Circuit Cord with Low	
(2) "_" = lens (3) Max ceilir	type. See ng height fo	Page 5 for le or Douglas F	ens descriptions. FMS sensor: 40 fee	t.				Photocell ZFMS	Voltage Connections D6	
See Page 4	for more of	details on ad	lvanced controls. Ruggedized senso		ee Page 4			Douglas FMS Sensor with Dimming/Occupancy/	6' Dual Circuit Cord	
for more de	etails on ac	lvanced con			J			Daylight Harvesting with Newtork Capabilities ⁽³⁾	D10 10' Dual Circuit Cord	
sales repres	sentative fo	or details.	C-50°C ambient.	ory. Consult	ractory or			ZENLO	P(NEMA)	
LIVIZ OP	10 10 10 10 12	.0 211 0 7 0	C 30 C diffibiliti.					Enlighted Ruggedized Sensor with Dimming/Occupancy/	Plug (Specify NEMA configuration)	
Contro	ols Ac	cessori	es (order sej	parately,)			Daylight Harvesting and Enlighted One System ⁽⁴⁾	WG	
Fo	r Douglas	Controls						ZENLC	Wire Guard WGE	
1 777	-DMSW-U -4BTSW-U		etooth 1 Zone Dim etooth 4-Button W					Enlighted Ruggedized Sensor with Dimming/Occupancy/ Daylight Harvesting and	Extended Wire Guard for End-	
ВТ	-8BTSW-U	-A Blue	etooth 8-Button W	'all Station				Enlighted Connected System ⁽⁴⁾	Mounted Sensor	
Fo	r Enlighte S-2-00	d Controls	Donasta Control IV	all Cuitale				ZENLI	SC Safety Cable	
		(for Enlight	Remote Control W ted Connected & I	oT)				Enlighted Ruggedized Sensor with Dimming/Occupancy/	F	
WS	S-2-00-IL	Enlighted I (for Enlight	Remote Control W ted One)	aii Switch				Daylight Harvesting and Enlighted IoT System ⁽⁴⁾	Fuse	
									EM2 Emergency Pack ⁽⁶⁾	



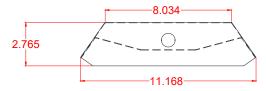
SDT(480V) 480V to 277V Step Down Transformer

CC Conformal Coating

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



Schematic:





Performance Chart:

Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts
PBL 4 SL HE UV 835	12018	84	143.1	PBL 4 SL HE UV 840	12416	84	147.8	PBL 4 SL HE UV 850	12788	84
PBL 4 VL HE UV 835	13905	100	139.1	PBL 4 VL HE UV 840	14365	100	143.7	PBL 4 VL HE UV 850	14796	100
PBL 4 LW HE UV 835	15913	118	134.9	PBL 4 LW HE UV 840	16439	118	139.3	PBL 4 LW HE UV 850	16932	118
PBL 4 MD HE UV 835	19697	140	140.7	PBL 4 MD HE UV 840	20349	140	145.3	PBL 4 MD HE UV 850	20959	140
PBL 4 HI HE UV 835	23543	174	135.3	PBL 4 HI HE UV 840	24322	174	139.8	PBL 4 HI HE UV 850	25051	174
PBL 4 SL UV 835	11998	86	139.5	PBL 4 SL UV 840	12394	86	144.1	PBL 4 SL UV 850	12766	86
PBL 4 VL UV 835	13982	104	134.4	PBL 4 VL UV 840	14444	104	138.9	PBL 4 VL UV 850	14877	104
PBL 4 LW UV 835	17193	136	126.4	PBL 4 LW UV 840	17761	136	130.6	PBL 4 LW UV 850	18294	136
PBL 4 MD UV 835	20866	155	134.6	PBL 4 MD UV 840	21556	155	139.1	PBL 4 MD UV 850	22203	155
PBL 4 HI UV 835	22943	174	131.9	PBL 4 HI UV 840	23701	174	136.2	PBL 4 HI UV 850	24412	174

<u>Lumen Adjustment Factors:</u> FR lens: 0.93

WG: 0.90 FR w/ WG: 0.85

LPW 152.2 148.0

143.5

149.7

144.0 148.4 143.1 134.5

143.2 140.3



The PBL 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.





Douglas Lighting Controls, Inc.: Cloud-based controls

The PBL can be equipped with the Douglas FMS sensor, which is designed for high bay applications.

With a max sensor height up to 40 feet, the FMS is ideal for applications like warehouses and manufacturing facilities. It can be installed for on/off control or bilevel light functionality. The daylight sensor provides additional savings by dimming the lights to work with the amount of natural available daylight.



- Configuration from the floor via smartphone app
- Bluetooth mesh network is created between devices for control over a group of Douglas sensors
- · Occupancy and daylight sensing
- IP65-rated
- 0-10V dimming
- 150 feet clear line of site, 50 feet through standard walls (distances may vary based on location and environment)

CheckLight® Energy Management System

Douglas controls can be integrated with the CheckLight® Energy Management system. This system can help you uncover energy conversion opportunities, create conservation strategies, analyze lighting load inefficiencies, and make configuration changes from anywhere with Douglas' user-friendly interface. You can get measurements, reports, and control your system from a web-based application.

CheckLight® has the capability to look at different facilities within a portfolio and use data benchmarks to compare building performances.

- Find energy conservation opportunities
- Create energy saving strategies
- Analyze load inefficiencies
- Optimize energy management

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

© 2022 Enlighted for all Enlighted content and images.

© 2022 Douglas Lighting Controls, Inc. for all Douglas content and images. The Bluetooth® word, mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Douglas Lighting Controls is under license. Other trademarks and trade names are those of their respective owners.





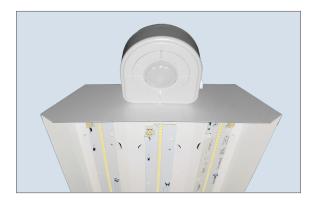


Dimming Sensors (Z221B/Z321B)

- 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



Phone app interface for Z321B



On/Off Occupancy Sensors (ZOS)

An optional occupancy sensor controls individual fixtures on or off based on occupancy in detection zone. Sensor used: Leviton OSFHU-ITW (pictured), or an equivalent.



Finish Options (BK, SL)

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

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 Frosted acrylic diffuser lenses minimize glare and improve aesthetics.



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.

