LUMENFOCUS

Project: _____

Location: _____

Cat. #: _____

Type: _____

Quantity: _____

LED

PBL 2 HD | 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

Applications:
Suitable for most commercial, industrial and institutional applications
- Gymnasiums
- Recreation Centers
- Manufacturing
- Warehouse
- 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 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/

Warranty:
- 5 year limited system warranty - see 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.)

MADE IN USA
USING DOMESTIC AND FOREIGN COMPONENTS

10 YEAR EXTENDED WARRANTY
AVAILABLE ON CERTAIN MODELS

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Ordering Guide:

example: PBL 2 MD UV FR 850 HDW PM ST(18") OS WG

Series	Length	Output	Performance	Voltage	Shielding	CRI/CCT	Gauge	Hanging	Controls	Options	Finish
PBL	2						HDW				
PBL	**2** 2'	**LW** Low	**Blank** Standard	**UV** 120-277	**Blank** No Lenses	**835** 80 CRI/3500K	**HDW** Heavy Duty 0.063" Aluminum Wide-Body Housing	**Blank** None	**Blank** No Controls	**Blank** No Options	**Blank** White
		MD Medium	**HE** High Efficiency	**34** 347V	**FR** Frosted Acrylic Diffusers	**840** 80 CRI/4000K		**QC** 10' Quick Hang Cable Kit	**ZOS** Occupancy Sensor (On/Off)	**EXT10** 10-Year Extended Warranty[4]	**BK** Matte Black
				48 480V		**850** 80 CRI/5000K		**QC20** 20' Quick Hang Cable Kit	**ZOSD** Occupancy Sensor (On/Off/Dim)	**C6** 6' Single Circuit Cord	**SL** Metallic Silver
								PM Pendant Mount	**Z221BL_** Wattstopper Programmable Photo/Motion Multi-Voltage Sensor (high/low/off)[1]	**C65W** 6' Single Circuit Cord with Low Voltage Connections	
								ST(x) 3/4" Stem (Specify Length)	**Z321BL_** Wattstopper Bluetooth-enabled Programmable Photo/Motion Multi-Voltage Sensor (high/low/off)[1]	**C10** 10' Single Circuit Cord	
									ZPC Photocell	**C105W** 10' Single Circuit Cord with Low Voltage Connections	
									ZFMS Douglas FMS Sensor with Dimming/Occupancy/Daylight Harvesting with Network Capabilities[2]	**D6** 6' Dual Circuit Cord	
									ZENLO Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted One System[3]	**D10** 10' Dual Circuit Cord	
									ZENLC Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted Connected System[3]	**P(NEMA)** Plug (Specify NEMA configuration)	
									ZENLI Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted IoT System[3]	**WG** Wire Guard	
										WGE Extended Wire Guard for End-Mounted Sensor	
										SC Safety Cable	
										F Fuse	
										EM2 Emergency Pack[5]	
										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	

Notes

[1] "_" = lens type. See Page 5 for lens descriptions.
[2] Max ceiling height for Douglas FMS sensor: 40 feet.
See Page 4 for more details on advanced controls.
[3] Max ceiling height for Enlighted Ruggedized sensor 50 feet.
See Page 4 for more details on advanced controls.
[4] Not available on all models. Certain conditions apply.
Consult factory or sales representative for details.
[5] EM2 - Up to 16W. 120-277V / 0°C-50°C ambient.

Controls Accessories *(order separately)*

For Douglas Controls
BT-DMSW-U-A   Bluetooth 1 Zone Dimmer
BT-4BTSW-U-A   Bluetooth 4-Button Wall Station
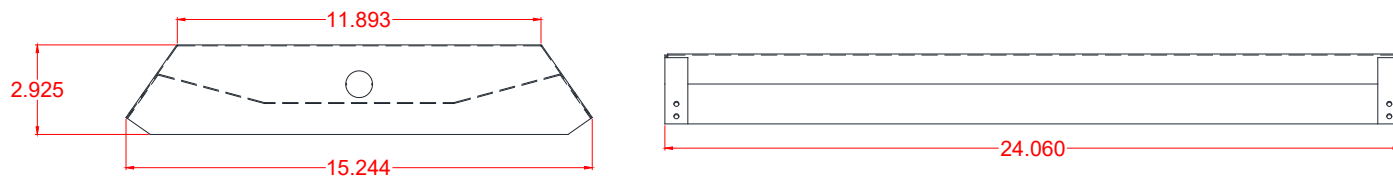BT-8BTSW-U-A   Bluetooth 8-Button Wall Station

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

Schematic:

11.893
2.925
15.244
24.060

Performance Chart:

Catalog #	Lumens	Watts	LPW
PBL 2 LW HE UV 835	8805	67	131.4
PBL 2 MD HE UV 835	11553	85	135.9
PBL 2 LW UV 835	9041	72	125.1
PBL 2 MD UV 835	11422	87	131.3

Catalog #	Lumens	Watts	LPW
PBL 2 LW HE UV 840	9096	67	135.8
PBL 2 MD HE UV 840	11934	85	140.4
PBL 2 LW UV 840	9340	72	129.2
PBL 2 MD UV 840	11799	87	135.6

Catalog #	Lumens	Watts	LPW
PBL 2 LW HE UV 850	9369	67	139.8
PBL 2 MD HE UV 850	12292	85	144.6
PBL 2 LW UV 850	9620	72	133.1
PBL 2 MD UV 850	12153	87	139.7

Lumen Adjustment Factors: FR lens: 0.93
WG: 0.90
FR w/ WG: 0.85

LumenFocus Re-boardABILITY

The PBL 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.

PBL Demonstration

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

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Douglas Lighting Controls, Inc.: Cloud-based controls

The PBL HD 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 bi-level light functionality. The daylight sensor provides additional savings by dimming the lights to work with the amount of natural available daylight.

FMS

• 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-in-one 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.
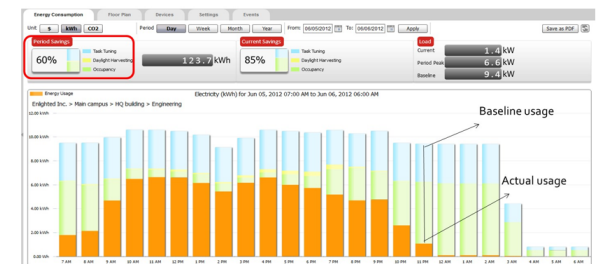
Enlighted Capabilities*	Enlighted One (ZENLO)	Enlighted Connected (ZENLC)	Enlighted IoT (ZENLI)
Motion and Switch Groups	✓	✓	✓
Daylight Harvesting	✓	✓	✓
Schedule Lighting		✓	✓
Energy Reporting & Optimization		✓	✓
Environment Data & Lighting Controls API		✓	✓
Building Management System Integration		✓	✓
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

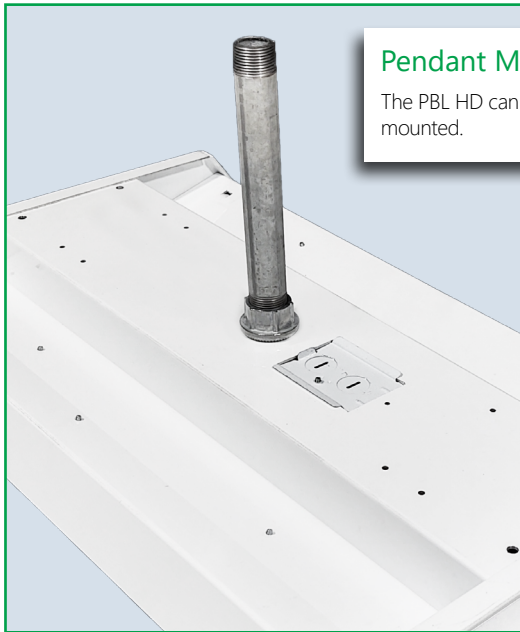Learn more about our available advanced controls options here:
www.lumenfocus.com/controls-overview

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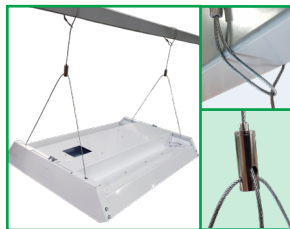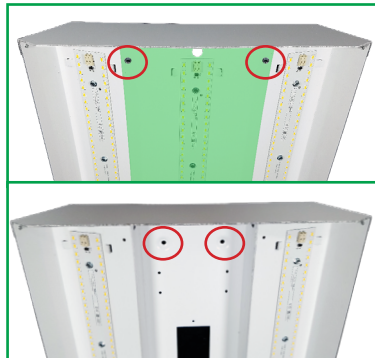Page 4 of 5

Hanging Options Available:

Pendant Mount (PM)
The PBL HD can be pendant mounted.

Surface Mount

The PBL HD is designed to be easily mounted to any sturdy surface. Simply remove the hex head screws holdingf 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 (QC, QC20)

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. A mechanically fastened safety cable (SC) is also optional.

Wireguard and shielding

Add an optional wireguard for added stability and protection - ideal for gymnasiums or other areas where the luminaire may be struck. Optional frosted acrylic diffuser lenses minimize glare and improve aesthetics.
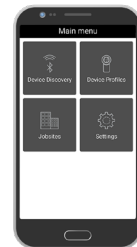

Other controls available:

FSIR-100

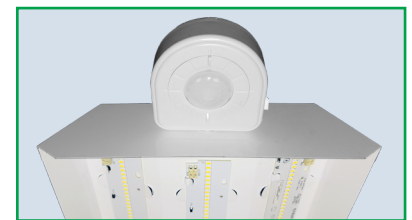**FSP with L7 lens**

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:** 360º lens, maximum coverage 48', diameter from 8' height
  - **L3:** 360º lens, maximum coverage 40', diameter from 20' height
  - **L7:** 360º lens, maximum coverage 100', diameter from 40' height

Phone app interface for Z321B

On/Off Occupancy Sensors (ZOS)

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

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.

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