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Note: This product has been discontinued and replaced with the PBL V2 HD.

	Project:
	Location:
	Cat. #:
	Туре:
	Type: Quantity:
the second se	

PBL 2W 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



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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PBL 2W HD | LED HEAVY DUTY HIGH BAY

Ordering Guide:

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

Series	Length	Output	Performance	Voltage	Shielding	CRI/CCT	Gauge	Hanging	Controls	Options	Finish
PBL	2W						HDW				
PBL	2W 2'	MH Medium High HI High	Blank Standard HE High Efficiency	UV 120-277 34 347V ⁽¹⁾ 48 480V ⁽¹⁾	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	Blank No Controls ZOS Occupancy Sensor (On/Off) ZOSD Occupancy Sensor	Blank No Options EXT10 10-Year Extended Warranty ⁽⁵⁾ C6 6' Single Circuit Cord	Blanl White BK Matte Bla SL Metallic Si
otes						1		20 Quick Hang Cable Kit PM Pendant Mount ST(x) 3/4" Stem (Specify Length)	(On/Off/Dim) Z221BL_ Wattstopper Programmable Photo/ Motion Multi-Voltage Sensor (high/low/off) ⁽²⁾ Z321BL_ Wattstopper Bluetooth- enabled Programmable Photo/Motion Multi- Voltage Sensor	6' single Circuit Cord C65W 6' Single Circuit Cord with Low Voltage Connections C10 10' Single Circuit Cord C105W 10' Single Circuit Cord with Low Voltage Connections	
h step-d _" = lens Max ceilir tails on a Max ceilir more de Not availa es repres M2 - Up	own trar type. Se ng heigh advancec ng heigh etails on able on a sentative to 16W.	nsformer in a se Page 6 for t for Douglas d controls. t for Enlighte advanced cc all models. Cr for details. 120-277V / 0	HE currently o in application i lens descripti s FMS sensor: ed Ruggedizec ontrols. ertain conditic 0°C-50°C ambi	where 34 ons. 40 feet. 5 I sensor 5 ons apply. ent.	7V-480V is r iee Page 5 fc 50 feet. See F Consult fact	needed. or more Page 5			(high/low/off) ⁽²⁾ ZPC Photocell ZFMS Douglas FMS Sensor with Dimming/Occupancy/ Daylight Harvesting with Newtork Capabilities ⁽³⁾ ZENLO Enlighted Ruggedized Sensor with Dimming/ Occupancy/Daylight Harvesting and Enlighted One System ⁽⁴⁾	D6 6' Dual Circuit Cord D10 10' Dual Circuit Cord P(NEMA) Plug (Specify NEMA configuration) WG Wire Guard WGE Extended Wire Guard for End-Mounted	
BT BT BT	-DMSW- -4BTSW- -8BTSW-	-U-A BI -U-A BI ted Control	uetooth 1 Zon uetooth 4-But uetooth 8-But s d Remote Con	ton Wall ton Wall	Station Station				ZENLC Enlighted Ruggedized Sensor with Dimming/ Occupancy/Daylight Harvesting and Enlighted Connected System ⁽⁴⁾	Sensor SC Safety Cable F Fuse	
	5-2-00 5-2-00-11	(for Enlig Enlighted	hted Connect d Remote Con hted One)	ed & IoTj)				ZENLI Enlighted Ruggedized Sensor with Dimming/ Occupancy/Daylight Harvesting and Enlighted IoT System ⁽⁴⁾	EM2 Emergency Pack ⁽⁶⁾ SDT(480V) 480V to 277V Step Down Transformer CC Conformal Coating	
							2			LVL 0-10V Dimming Leads for Easy Field Access BAA Buy American Act Compliant	

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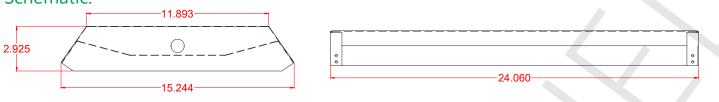
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PBL 2W HD | LED HEAVY DUTY HIGH BAY

Schematic:



Performance Chart:

Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW
PBL 2W MH HE UV 835	13766	100	137.7	PBL 2W MH HE UV 840	14221	100	142.2	PBL 2W MH HE UV 850	14648	100	146.5
PBL 2W HI HE UV 835	17003	106	160.4	PBL 2W HI HE UV 840	17475	106	164.9	PBL 2W HI HE UV 850	17947	106	169.3
PBL 2W MH UV 835	13432	104	129.2	PBL 2W MH UV 840	13876	104	133.4	PBL 2W MH UV 850	14292	104	137.4
PBL 2W HI UV 835	17889	119	150.3	PBL 2W HI UV 840	18385	119	154.4	PBL 2W HI UV 850	18881	119	158.2

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

Re-board ABILITY

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 <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.

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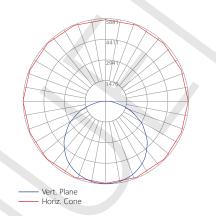
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Photometric Data:

PBL 2W HI UV 835		e Data (cd/s		A
Test No.: LLIA000621-001	Angle In	Average	Average	Average
	Degrees	0-Deg	45-Deg	90-Deg
Luminaire Lumens: 17,053 lm	45	25441	24725	24763
Luminaire Watts: 130.2W	55	24834	24268	24498
Efficacy: 131.0 LPW	65	23361	23138	21381
Spacing Criterion (0-180): 1.32	75	19268	14947	16254
Spacing Criterion (90-270): 1.28	85	9579	6721	7667

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	76	82	78	74
3	90	80	71	65	88	78	70	64	75	69	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	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	47	38	32	59	46	38	32	45	37	32	43	37	32
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26



Zonal Lume	n Summary	
Zone	Lumens	%Fixt
0-20	2136.96	12.50
0-30	4565.59	26.80
0-40	7540.00	44.20
0-60	13587.73	79.70
0-80	16853.12	98.80
0-90	17053.36	100.00
90-120	0.00	0.00
90-130	0.00	0.00
90-150	0.00	0.00
90-180	0.00	0.00
0-180	17053.36	100.00

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

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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 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)

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 One (ZENLO)	Enlighted Connected (ZENLC)	Enlighted IoT (ZENLI)
✓	\checkmark	1
✓	1	✓
	✓	✓
	✓	✓
	~	✓
	1	✓
		✓
		✓
		✓
	One (ŽENLO) ✓	Connected One (ZENLO)

Note: Additional equipment required for ZENLC and ZENLI

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

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

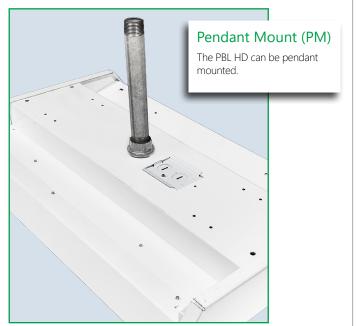
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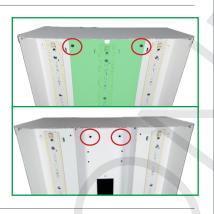
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Hanging Options Available:



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 wirequard 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:



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)



Phone app interface for Z321B

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

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.



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