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Note: This product has been discontinued and replaced with the PBL U G2.



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



PBL U 4 | LED Lensed High Bay

Features:

- High performance LED technology
- 0-10V dimming drivers standard on all models
- Field replaceable LED boards and drivers through Re-boardABILITY (more info on Page 3)
- Multiple sheilding options 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
- Gymnasiums

Ambient Operating Temp.:

• -30°C to 40°C

Predicted L70 Lifetime:

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

upon request)

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



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

Order	ing Gı	uide:					exampl	e: PBL U 4 MD UV A23F 84	0-QC20 C6
Series	Length	Output	Voltage	Shielding	CRI/CCT	Hanging	Controls	Options	Finish
PBLU	4								
PBL U	4 4'	VL Very Low	UV 120-277	A23 High Efficiency 23 Pattern Acrylic		Blank None	Blank No Controls	Blank No Options	Blank White
		LW Low	34 347V	A23F High Efficiency 23	840 80 CRI/4000K	QC 10' Quick Hang Cable Kit	ZOS Occupancy Sensor (On/Off)	EXT10 10-Year Extended Warranty ⁽⁴⁾	BK Matte Black
		MD Medium	48 480V	Pattern Acrylic, Frosted	850 80 CRI/5000K	QC20	ZOSD	C6 6' Single Circuit Cord	SL Metallic Silver
		HI High		L118 0.118" Impact Resistant Lexan		20' Quick Hang Cable Kit	Occupancy Sensor (On/Off/Dim) Z221BL_ Wattstopper Programmable	C65W 6' Single Circuit Cord with Low Voltage Connections	
							Photo/Motion Multi-Voltage Sensor (high/low/off) ⁽¹⁾	C10 10' Single Circuit Cord	
Notes							Z321BL_ Wattstopper Bluetooth-enabled Programmable Photo/Motion	C105W 10' Single Circuit Cord with Low Voltage Connections	
⁽²⁾ Max ceilir See Page 4	ng height f	Page 5 for le or Douglas I details on ac	FMS sensor dvanced cor	: 40 feet.	ot		Multi-Voltage Sensor (high/low/off) ⁽¹⁾ ZPC	D6 6' Dual Circuit Cord	
See Page 4 ⁽⁴⁾ Not avail	for more able on all	details on ac models. Cer	lvanced cor tain conditi	ntrols. ons apply.	et.		Photocell ZFMS	D10 10' Dual Circuit Cord	
Consult fac ⁽⁵⁾ EM2 - Up	tory or sale to 16W. 12	es represent 20-277V / 0°	ative for de 'C-50°C amb	tails. pient.			Douglas FMS Sensor with Dimming/Occupancy/Daylight Harvesting with Newtork	P(NEMA) Plug (Specify NEMA configuration)	
Contro	ols Ac	cessori	ies (ord	er separat	ely)		Capabilities ⁽²⁾	WG Wire Guard	
Fo	r Douglas -DMSW-U	Controls		ne Dimmer			Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight	WGE Extended Wire Guard for End-Mounted Sensor	
BT	-4BTSW-U -8BTSW-U	-A Blu	etooth 4-Bi	utton Wall Stati utton Wall Stati			Harvesting and Enlighted One System ⁽³⁾ ZENLC	sc	
	or Enlighte S-2-00	d Controls	Remote Co	ntrol Wall Swite	-h		Enlighted Ruggedized Sensor with Dimming/Occupancy/	Safety Cable F Fuse	
	S-2-00-IL	(for Enligh Enlighted	ted Connec Remote Co				Daylight Harvesting and Enlighted Connected System ⁽³⁾ ZENLI	EM2	
		(for Enligh	ted One)				Enlighted Ruggedized Sensor with Dimming/Occupancy/Daylight Harvesting and Enlighted IoT System ⁽³⁾	Emergency Pack ⁽⁵⁾ SDT(480V) 480V to 277V Step Down Transformer	
								CC Conformal Coating	
								LVL 0-10V Dimming Leads for Easy Field Access	
Schor								BAA Buy American Act Compliant	
Schem	auc.	-			—45.5"———				1
r 11.	6"		0	ō ō ō	• • • •	ō õ	<u></u>		
		3.5" [°]		<u> </u>	<u> </u>	0 0 0 0	 14,1"		
			•	0 0 0 0 0 0	0 0 0	0 0 0 0	•••••		

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PBL U 4 | LED LENSED HIGH BAY

Performance Chart:

Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW	Catalog #	Lumens	Watts	LPW
PBL U 4 VL UV A23F 835	11693	91	128.9	PBL U 4 VL UV A23F 840	12080	91	133.2	PBL U 4 VL UV A23F 850	12442	91	137.2
PBL U 4 LW UV A23F 835	15132	123	122.9	PBL U 4 LW UV A23F 840	15633	123	127.0	PBL U 4 LW UV A23F 850	16101	123	130.8
PBL U 4 MD UV A23F 835	19755	160	123.5	PBL U 4 MD UV A23F 840	20408	160	127.5	PBL U 4 MD UV A23F 850	21020	160	131.4
PBL U 4 HI UV A23F 835	21738	174	124.9	PBL U 4 HI UV A23F 840	22456	174	129.1	PBL U 4 HI UV A23F 850	23130	174	132.9

Lumen Adjustment Factors: WG: 0.95

Photometric Data: PBL U 4 LW UV A23F 840

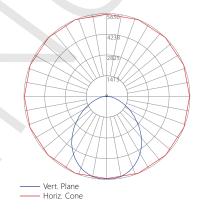
Test No.: LLIA000842-003 Luminaire Lumens: 15,132 lm Luminaire Watts: 123.1W Efficacy: 122.9 LPW Spacing Criterion (0-180): 1.22 Spacing Criterion (90-270): 1.22

Luminance Data (cd/sq.m)

Angle In	Average	Average	Average
Degrees	0-Deg	45-Deg	90-Deg
45	12142	43-Deg	10448
55	10265	8731	8401
65	8251	6711	6604
75	6086	4883	5236
85	3264	3353	4571

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	118	118	118	118	114	114	114		108	108	108	102	102	102
1	108	103	99	95	104	100	96	93	95	92	89	90	87	85
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71
3	90	80	72	65	87	78	70	64	74	68	63	70	65	61
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52
5	76	64	55	48	74	62	54	48	59	52	47	57	51	46
6	70	57	49	42	68	56	48	42	54	47	41	52	45	40
7	65	52	44	38	63	51	43	37	49	42	37	47	41	36
8	61	48	39	34	59	47	39	33	45	38	33	43	37	32
9	57	44	36	30	55	43	35	30	41	35	30	40	34	29
10	53	40	33	28	52	40	32	27	38	32	27	37	31	27



Zonal Lumen Summary

Zone	Lumens	%Fixt
0-20	2046.0	13.5
0-30	4300.4	28.4
0-40	6921.0	45.7
0-60	11542.7	76.3
0-80	13878.6	91.7
0-90	14280.4	94.4
90-120	456.5	3.0
90-130	568.3	3.8
90-150	742.9	4.9
90-180	851.6	5.6
0-180	15132.0	100.0

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

Re-board ABILITY

The PBL U 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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Douglas Lighting Controls, Inc.: Cloud-based controls

The PBL U 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)
~	1	~
✓	✓	✓
	~	✓
	~	✓
	~	✓
	✓	✓
		✓
		✓
		✓
	One (ZENLO)	One (ZENLO) Connected (ZENLC)

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



Shielding Available in a high efficiency 23 pattern acrylic lens (frosted or clear), and an impact resistant clear lexan lens



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.

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