

P14BR & PBLP LED BACKLIT PANEL

3 CCT AND 3 POWER SELECTABLE OPTIONAL EMERGENCY REMOTE

P14BR & PBLP LED panel lights utilize next-generation back-lit technology, ensuring high performance, superior uniformity, and reduced glare. Featuring a 120-347 V driver and the versatility to change the colour temperature and lumen output with a simple switch, the P14BR & PBLP series are the premier and cost-effective solution for reducing stocking inventory. These commercial grade LED panels lights are the ideal replacement for traditional fluorescent fixtures in offices, schools, and commercial buildings.

FEATURES & SPECIFICATIONS

CONSTRUCTION

Physical Characteristics

- White aluminum alloy frame
- PMMA LED lens
- CCT and Power Select switches are placed on the driver box

Mounting

- Recessed, suspended, surface

PERFORMANCE DATA

- Available in 4 000 K single color temperature or 3 500/4 000/5 000 K selectable color temperature
- 82+ CRI
- Electrical ratings: 120-347 V
- Estimated life of over 120 000 hours to L70
- 0-10 V dimming standard
- 1.5 kV surge protection
- Ambient temperature: -20 °C to 35 °C [-4 °F to 95 °F]
- Operating temperature with BRIDGE*: -20 °C to 25 °C [-4 °F to 77 °F]

OPTIONAL EMERGENCY LIGHTING*

BRIDGE Normally ON Emergency Remote LED backlit panel

- Consuming 11 W, 12 - 24 V DC
- 200 mA constant current
- Delivers 1 007 - 1 111 lumens in emergency mode
- Ease of maintenance when used with AimLite emergency lighting battery units complete with auto test function
- Complements AimLite's normally ON LED panel family
- Patent pending

Please view the **BRIDGE** specification section for more details on this technology

EMERGENCY LIGHTING COMPLIANCES*

- CSA certified as a C22.2 C141-15 emergency lighting luminaire
- Meets ICES-005 requirements

GENERAL LIGHTING COMPLIANCES

- cULus
- Suitable for damp location
- IC rated
- Meets requirements of ICES-005 issue 5 for Class B products
- Conforms to NSF STD.2 and certified to be used in food handling applications
- Conforms to:
 - CAN/ULC-S102.3-07 Standard method of fire test of light diffusers and lenses
 - CAN/ULC-S102.2-10 Standard method of test for surface burning characteristics of flooring, floor coverings, and miscellaneous materials and assemblies

* PBLP series excluded

OVERVIEW			
LIGHT SOURCE	LED	EFFICIENCY [LM/W]	110 - 138
WATTS [W]	20/30/40 30/40/50 40	COLOR TEMPERATURE [K]	3 500/4 000/5 000 4 000
LUMEN OUTPUT [LM]	2 400 - 6 600	CRI	82+

















Not all products are qualified on the DLC QPL. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/search.

* 5 year warranty for the BRIDGE module.

P14BR & PBLP

QUICK SHIP ORDERING GUIDE



PART NUMBER	WATTS [W]	VOLTS [VAC]	COLOR TEMP. [K] ¹	LUMEN OUTPUT [LM] ²	EFFICIENCY [LM/W]	CRI	LIFE L70 [HRS] ³	TESTED HOURS LM-80 [HRS] ³	DIMMING [YES/NO]	POWER FACTOR	THD [%]	CASE QTY [MASTER]
DLC Standard												
1'x4'												
P14BR-1LPS40-32/3C⁴	20/30/40	120-347	3 500/4 000/5 000	2 500/3 600/4 500	110	≥82	120 000	10 000	Yes	0.9	<25	2
2'x2'												
P14BR-2LA1-32/40K	40	120-347	4 000	4 500	113	≥82	120 000	10 000	Yes	0.9	<25	2
P14BR-2LPS-32/3C	20/30/40	120-347	3 500/4 000/5 000	2 500/3 600/4 500	110	≥82	120 000	10 000	Yes	0.9	<25	2
DLC Premium												
1'x4'												
PBLP-1LPS40P-32/3C⁴	20/30/40	120-347	3 500/4 000/5 000	2 750/4 000/5 100	127	82+	120 000	10 000	Yes	0.9	<20	2
2'x2'												
PBLP-2LPS40P-32/3C⁴	20/30/40	120-347	3 500/4 000/5 000	2 650/4 000/5 100	127	82+	120 000	10 000	Yes	0.9	<20	2
2'x4'												
PBLP-4LPS50P-32/3C⁴	30/40/50	120-347	3 500/4 000/5 000	4 100/5 400/6 600	132	82+	120 000	10 000	Yes	0.9	<20	2

¹Typical color temperature range: +/- 5 %.

²Lumen values are derived from photometric testing. Initial lumens range: +/- 10 %.

³Life hours are derived from IESNA LM-80 testing report and projected per IESNA TM-21 extrapolations.

⁴Standard packaging is 2 panels per master case without individual box.

LUMEN SPECIFICATION TABLE

PART NUMBER	WATTS [W]	3 500 K		4 000 K		5 000 K	
		LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]	LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]	LUMEN OUTPUT [LM]	EFFICIENCY [LM/W]
DLC Standard							
P14BR-1LPS40-32/3C	20	2 400	120	2 500	125	2 500	125
	30	3 500	117	3 600	120	3 600	120
	40	4 400	110	4 500	113	4 500	113
P14BR-2LPS-32/3C	20	2 400	120	2 500	125	2 500	125
	30	3 500	117	3 600	120	3 600	120
	40	4 400	110	4 500	113	4 500	113
DLC Premium							
PBLP-1LPS40P-32/3C	20	2 650	133	2 750	138	2 750	138
	30	3 900	130	4 000	133	4 000	133
	40	5 000	125	5 100	128	5 100	128
PBLP-2LPS40P-32/3C	20	2 650	133	2 750	138	2 750	138
	30	3 900	130	4 000	133	4 000	133
	40	5 000	125	5 100	128	5 100	128
PBLP-4LPS50P-32/3C	30	4 000	133	4 100	137	4 100	137
	40	5 300	130	5 400	135	5 400	135
	50	6 500	130	6 600	132	6 600	132

DEFAULT PROGRAMMING

P14BR-1LPS40-32/3C: 40 W / 4 000 K

P14BR-2LPS-32/3C: 40 W / 4 000 K

PBLP-1LPS40P-32/3C: 40 W / 4 000 K

PBLP-2LPS40P-32/3C: 40 W / 4 000 K

PBLP-4LPS50P-32/3C: 50 W / 4 000 K

DLC UNIQUE ID TABLE

PART NUMBER	DLC PREMIUM UNIQUE ID		DLC STANDARD UNIQUE ID
	AMBIENT LIGHTING	LOW BAY	AMBIENT LIGHTING
P14BR-1LPS40-32/3C	-	-	S-PJC3LN
P14BR-2LA1-32/40K	-	-	PLNMHEVOAZBE
P14BR-2LPS-32/3C	-	-	PLJC5L895FRG
PBLP-1LPS40P-32/3C	S-Y81X95	-	-
PBLP-2LPS40P-32/3C	S-DF3NLF	-	-
PBLP-4LPS50P-32/3C	S-KNQG79	S-68HXRJ	-

P14BR & PBLP

ORDERING GUIDE

P14BR	—	L	—	/	/	
SERIES	SIZE	LAMP TYPE	LUMEN PACKAGE [W] ¹	VOLTS [VAC]	COLOR TEMPERATURE [K] ³	OPTIONS
P14BR	1 - 1'X4' 2 - 2'X2'	L	A1 - 40 PS - 20/30/40	32 - 100-347 2 - 100-277 ²	40K - 4 000 ³ 3C - 3 500/4 000/5 000	DL - Emergency back up ^{4,6} EL - BRIDGE Normally ON emergency remote ^{4,5} OS - Occupancy Sensor ⁶

¹ See IES files or lumen specification table for more details.

² Offered with DL and OS options.

³ 4 000 K offered only with A1 lumen package, 3C offered with PS lumen package.

⁴ Suspended and surface mounting is not available when DL and EL options are selected.

⁵ When in emergency mode, luminaire only consumes 11 W.

⁶ Only available for 120-277 V.

For emergency lighting spacing, please see page 7.

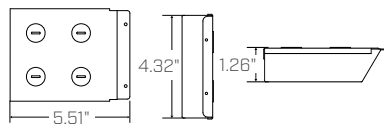
BRIDGE TECHNICAL SPECIFICATION TABLE

LUMEN PACKAGE	WATTS [W]	BRIDGEWATTS [W]	BRIDGE LUMEN OUTPUT [LM]
1'X4'			
1LPS	20	11	1 111
	30		1 007
	40		1 035
2'X2'			
2LA1	40	11	1 035
2LPS	20		1 111
	30		1 108
	40		1 034

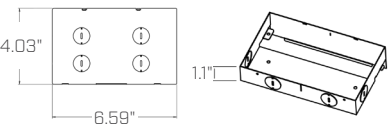
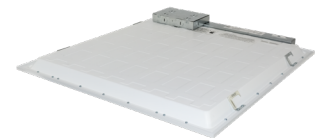
ACCESSORIES (ORDER SEPARATELY)

ORDER CODE	TYPE	COMPATIBLE WITH
PF-DWK-1X4-A	Drywall Kit	1X4
PF-DWK-2X2-A	Drywall Kit	2X2
PF-DWK-2X4-A	Drywall Kit	2X4
CAS973-1	Surface Mount Kit	1X4
CAS973-2	Surface Mount Kit	2X2
CAS973-3	Surface Mount Kit	2X4
KIT-SUS-CH	Suspension Kit	1X4, 2X2, 2X4
JB024-BP	Junction Box Gen. 1	P14BR-2LA1-30/40K, P14BR-2LPS-32/3C
JB027-BP	Junction Box Gen. 2	P14BR-1LPS40-32/3C

JUNCTION BOX GEN. 1



JUNCTION BOX GEN. 2



FRAME VIEW



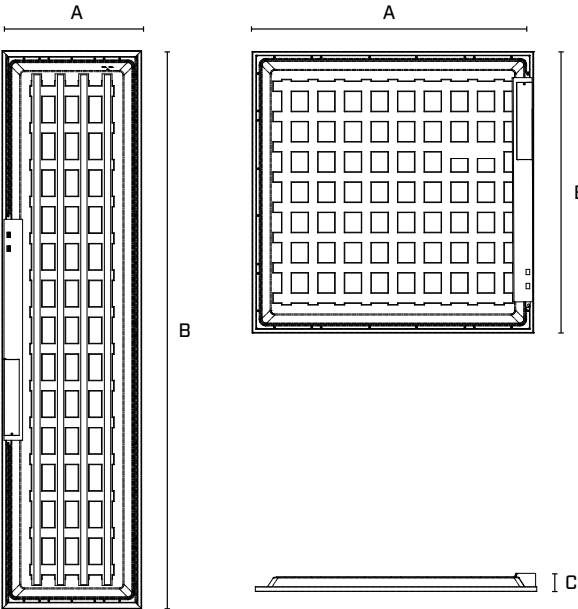
P14BR SERIES



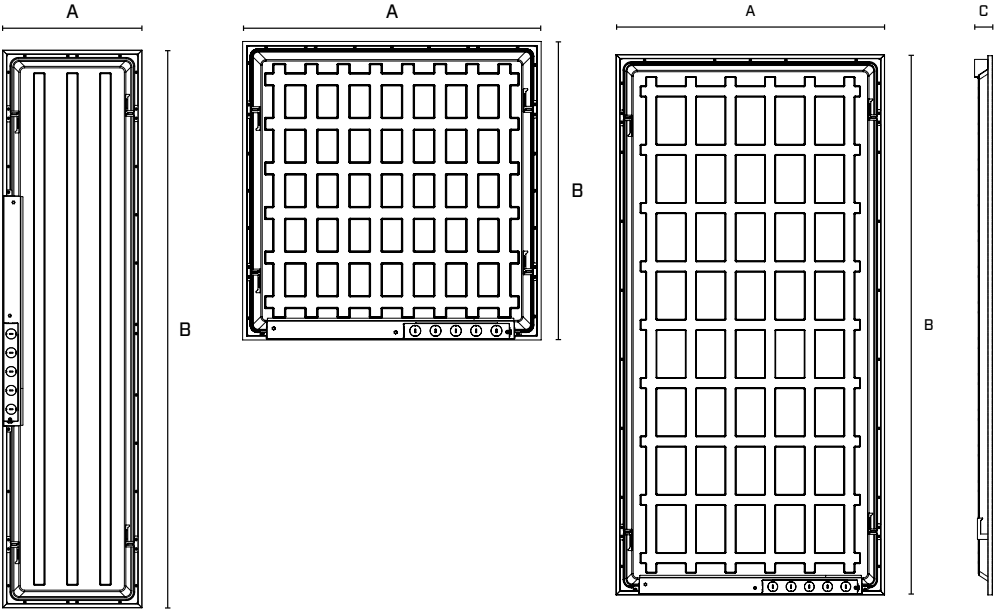
PBLP SERIES

P14BR & PBLP

DIMENSIONS AND WEIGHTS



	1'x4' P14BR-1LPS40-32/3C	2'x2' P14BR-2LA1-32/40K P14BR-2LPS-32/3C
A in. [cm]	11 7/8 [30.3]	23 3/4 [60.3]
B in. [cm]	47 3/4 [121.3]	23 3/4 [60.3]
C in. [cm]	1 5/8 [4]	1 5/8 [4]
Net weight [lbs]	4.6	4.4



	1'x4' PBLP-1LPS40P-32/3C	2'x2' PBLP-2LPS40P-32/3C	2'x4' PBLP-4LPS50P-32/3C
A in. [cm]	11 7/8 [30.3]	23 3/4 [60.3]	23 3/4 [60.3]
B in. [cm]	47 3/4 [121.3]	23 3/4 [60.3]	47 3/4 [121.3]
C in. [cm]	1 5/8 [4]	1 5/8 [4]	1 5/8 [4]
Net weight [lbs]	4.2	3.9	7.6

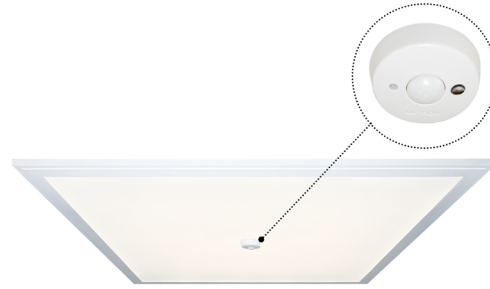
OCCUPANCY SENSOR

DEFAULT PROGRAMMING

TIMEOUT:	15 min
OCCUPANCY SENSOR:	Enabled
DAYLIGHT SENSOR:	Enabled
OCCUPANCY SENSOR SENSITIVITY:	Medium

DETECTION PATTERN

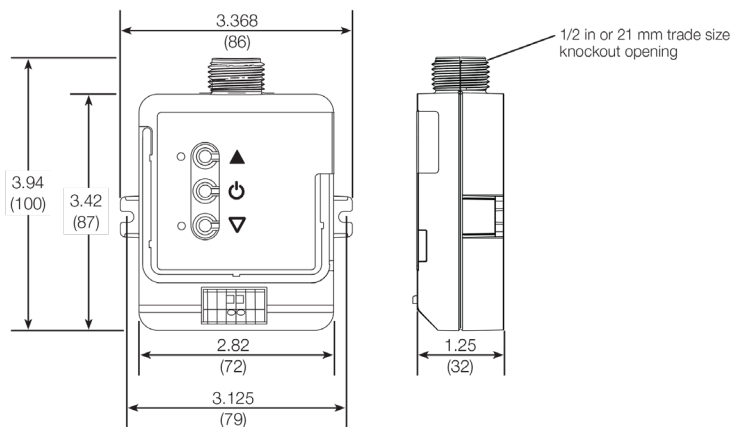
DETECTION DISTANCE:	Up to 300 ft ² (27.9 m ²) major motion coverage and 150 ft ² (13.9 m ²) minor motion coverage
DETECTION ANGLE:	360°



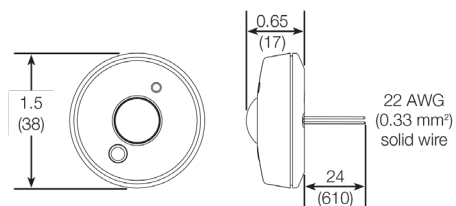
DIMENSIONS

Measurements shown as: in (mm)

Wireless Fixture Control



Sensor



Fixture Sensor Specifications:

- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC® 2014 300.22(C)(3)
- cULus Listed
- Operating voltage: 12 V, operating current: 25 mA
- IEC SELV / NEC® Class 2
- Ambient operating temperature: 32 °F to 104 °F (0 °C to 40 °C), 0%–90% humidity, non-condensing; indoor use only
- 5 Year Limited Warranty. For additional Warranty information, please visit: www.lutron.com/TechnicalDocumentLibrary/Sensor_Warranty.pdf
- Sensor wires are IEC SELV / NEC® Class 2 rated

BRIDGE

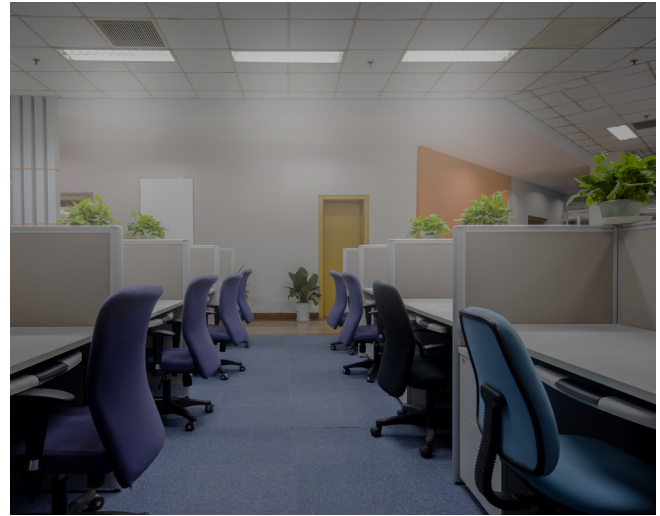
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

This luminaire can be used with an emergency backup powered by either a 12 V or 24 V DC AimLite battery unit, complete with or without auto test.

NORMAL MODE



EMERGENCY MODE



TYPICAL SPECIFICATION

Supply and install AimLite BRIDGE ____ft, LED backlit panel, Model number: _____ remote normally ON emergency luminaire, CSA C22.2 141-15 certified and meet the requirements prescribed by ICES-005. Normally ON when AC is present and when connected to an AimLite battery unit complete with or without auto test, the luminaire shall act as an emergency lighting remote and consume 11 W of DC power in ____ V producing 1 007 - 1 111 lumens in emergency mode.

The remote normally ON emergency luminaire shall be powered by an AimLite emergency lighting battery unit as described herein and shown on the drawings. The AimLite auto diagnostic micro-controller board shall supply the rated load for a minimum of a 1/2 hour to 87.5% of the rated battery voltage. The unit shall be rated 120 V, 277 V or 347 V, 60 Hz and be CSA listed. The unit shall have an output of: ____V and ____W.

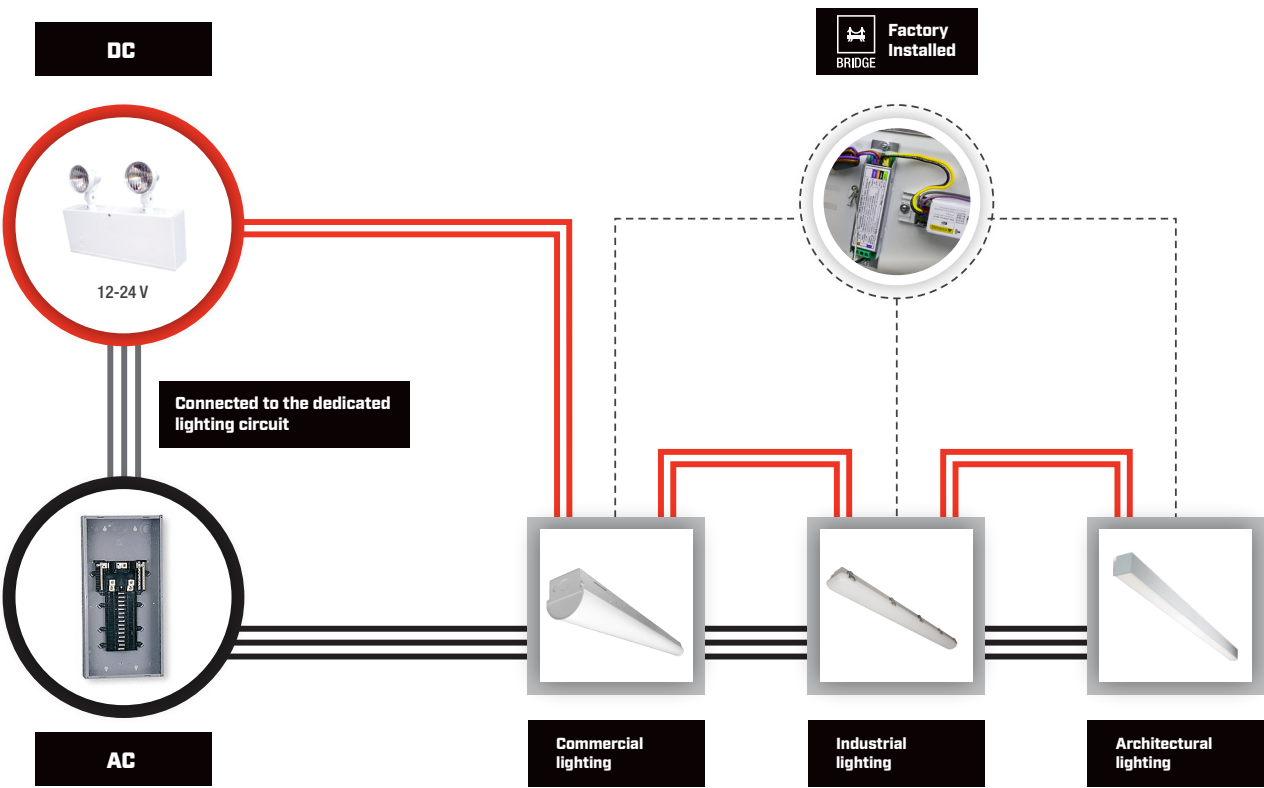
The charge voltage factory set to $\pm 1\%$ tolerance. High efficiency, rapid recovery, precision control charging system shall be employed to promote long battery life and reduce the potential for grid corrosion. The charger shall provide a continuous high charge to recharge the battery, when the battery is at full capacity, the charger will shut-off. Periodically the charger shall provide a pulse of energy to keep the battery topped off. The pulse charger shall be precisely regulated and shall charge the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger shall be current limited, temperature compensated, short-circuit proof and reverse polarity protected. The unit shall be furnished with an electronic lockout circuit, which will connect the battery when the AC circuit is activated, and an electronic brownout circuit, which will activate the emergency lights when utility power dips below 75% of nominal voltage. A low voltage battery protection circuit shall be provided and will disconnect the load when the battery reaches the end of discharge.

The automated testing performed by the AimLite auto test system has been designed to comply with all of the requirements of the National Fire Code. Every month, a 5 minute discharge and diagnostic test checks the operational status of the unit. Every 12 months, this test is extended to the full 30 minute, code required duration. This ensures that the battery charger is recharging the battery in accordance with code requirements.

The unit shall be AimLite model: EBST _____

BRIDGE
NORMALLY ON EMERGENCY REMOTE LUMINAIRE

BRIDGE WIRING DIAGRAM



LEGEND

- ≡ AC wires ≡ Connected to the dedicated lighting circuit = DC wires - - - - BRIDGE Factory Installed

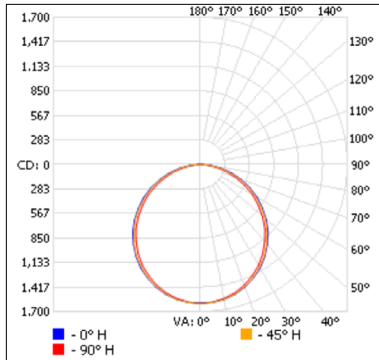
Emergency mode	Spacing
P14BR	Average spacing for 1 out of every 4 luminaires, normally ON in the path of egress, when at 8, 10, or 12 foot mounting heights.

P14BR & PBLP

GENERAL LIGHTING PHOTOMETRIC DATA¹

P14BR-1LPS40-32/3C • 40 W • 4 000 K • 4 724.9 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 249.5	26.4
0-40	2 051.0	43.4
0-60	3 649.2	77.2
60-90	1 074.4	22.7
70-100	480.5	10.2
90-120	1.3	0
0-90	4 723.7	100
90-180	1.3	0
0-180	4 724.9	100

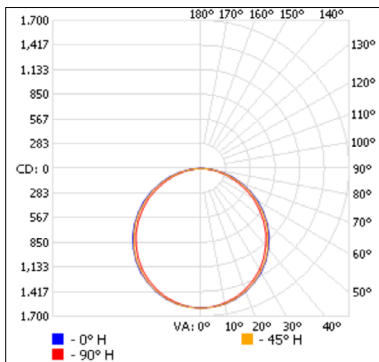
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	400.9	6.4'	5.8'
4.0'	100.2	12.9'	11.7'
6.0'	44.5	19.3'	17.5'
8.0'	25.1	25.7'	23.3'
10.0'	16.0	32.1'	29.2'

■ Vert. Spread: 116.2° ■ Hor. Spread: 111.1°

P14BR-2LA1-32/40K • 4 724.9 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 249.5	26.4
0-40	2 051.0	43.4
0-60	3 649.2	77.2
60-90	1 074.4	22.7
70-100	480.5	10.2
90-120	1.3	0
0-90	4 723.7	100
90-180	1.3	0
0-180	4 724.9	100

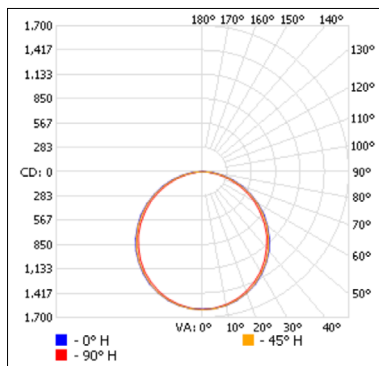
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	400.9	6.4'	5.8'
4.0'	100.2	12.9'	11.7'
6.0'	44.5	19.3'	17.5'
8.0'	25.1	25.7'	23.3'
10.0'	16.0	32.1'	29.2'

■ Vert. Spread: 116.2° ■ Hor. Spread: 111.1°

P14BR-2LPS-32/3C • 40 W • 4 000 K • 4 707.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 250.1	26.6
0-40	2 050.5	43.6
0-60	3 643.7	77.4
60-90	1 062.7	22.6
70-100	472.3	10
90-120	1.0	0
0-90	4 706.4	100
90-180	1.0	0
0-180	4 707.3	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	500.1	6.1'	6.1'
4.0'	125.0	12.2'	12.2'
6.0'	55.6	18.3'	18.3'
8.0'	31.3	24.3'	24.4'
10.0'	20.0	30.4'	30.5'

■ Vert. Spread: 113.4° ■ Hor. Spread: 113.5°

¹ Complete IES files available on our website.

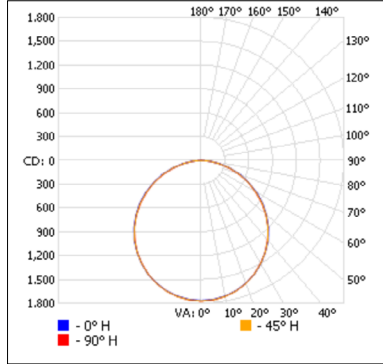
Data is based upon tests performed in a controlled environment. Actual performance can vary depending on operating conditions. All products are subject to change or may be discontinued any time without notice.

P14BR & PBLP

GENERAL LIGHTING PHOTOMETRIC DATA¹

PBLP-1LPS40P-32/3C • 40 W • 4 000 K • 5 177.8 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 375.2	26.6
0-40	2 256.3	43.6
0-60	4 013.0	77.5
60-90	1 163.9	22.5
70-100	514.7	9.9
90-120	0.9	0
0-90	5 176.9	100
90-180	0.9	0
0-180	5 177.8	100

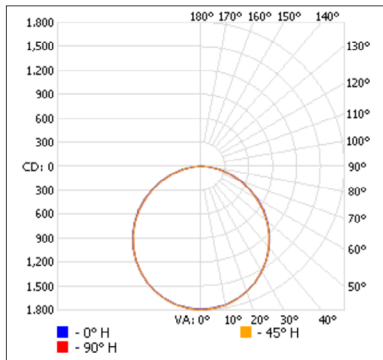
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	441.5	6.2'	6.1'
4.0'	110.4	12.4'	12.2'
6.0'	49.1	18.7'	18.3'
8.0'	27.6	24.9'	24.3'
10.0'	17.7	31.1'	30.4'

■ Vert. Spread: 114.5° ■ Hor. Spread: 113.4°

PBLP-2LPS40P-32/3C • 40 W • 4 000 K • 5 250.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 394.4	26.6
0-40	2 287.9	43.6
0-60	4 069.0	77.5
60-90	1 180.2	22.5
70-100	521.9	9.9
90-120	0.9	0
0-90	5 249.3	100
90-180	0.9	0
0-180	5 250.2	100

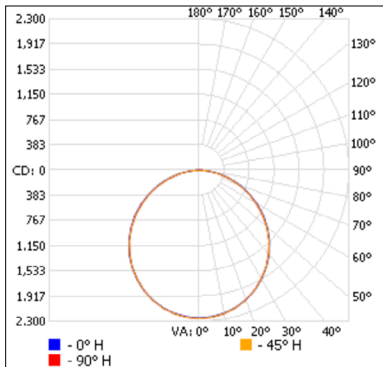
ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	447.7	6.2'	6.1'
4.0'	111.9	12.4'	12.2'
6.0'	49.7	18.7'	18.3'
8.0'	28.0	24.9'	24.3'
10.0'	17.9	31.1'	30.4'

■ Vert. Spread: 114.5° ■ Hor. Spread: 113.4°

PBLP-4LPS50P-32/3C • 50 W • 4 000 K • 6 596.4 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0-30	1 751.9	26.6
0-40	2 874.5	43.6
0-60	5 112.5	77.5
60-90	1 482.8	22.5
70-100	655.7	9.9
90-120	1.1	0
0-90	6 595.3	100
90-180	1.1	0
0-180	6 596.4	100

ILLUMINANCE AT A DISTANCE

CENTER BEAM FC		BEAM WIDTH	
2.0'	562.4	6.2'	6.1'
4.0'	140.6	12.4'	12.2'
6.0'	62.5	18.7'	18.3'
8.0'	35.2	24.9'	24.3'
10.0'	22.5	31.1'	30.4'

■ Vert. Spread: 114.5° ■ Hor. Spread: 113.4°

¹ Complete IES files available on our website.