PacLights

OVERVIEW

The BX Series Retrofit Light Bulb is designed to replace up to a 400 W MH or HPS vertically installed light bulb. Advanced thermal management allows the bulb to provide sufficient lumen output while keeping in a size that not exceeding the original bulb.

APPLICATION

Applications for the BX bulb include High Bays, Low Bays, and Street Lights, or any fixtures with HID bulbs that are vertically installed.

- Limited Warranty: 5 Years
- Lumen Output: 10,089-10,399 L
- Wattage: 100 W
- Active Thermal Management
- Self Ballasted

DLC QPL LISTED **c(UL)us E466044**

Project:	Type:
Prepared By:	Date:

Models

Model	Lumens (LM)	Color Temp (K)	Light Color
BX500WW	10089	3000	Warm White
BX500NW	10399	5000	Daylight

Technical Specifications

Warranty

Paclights warrants these LED products will be free from defects in materials and workmanship for a period of three (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. Please refer to our full warranty.

Qualifications

UL Listing:
E466044
FCC Approved:
IESNA LM-79 & LM-80 Testing:
Paclights LED luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.
DLC Qualification:
Selected models of this product are on the Design Lights Consortium (DLC) Qualified Products List and are eligible for rebates from DLC Member Utilities. To view our DLC qualified products, please consult the DLC Qualified Products List at www.designlights.org/qpl.

LED Characteristics

Lifespan:
100,000- hour LED lifespan based on IES LM-80 results and TM-21 calculations.
LEDs:
Multi-chip, high-output, long-life LEDs
Color Stability:
LED color temperautre is warranties to shift no more than 200K in CCT over a 5 year period.
Color Uniformity:
PacLight's range of CCT (Correlated Color Temperature) follows the guidelines of th American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011
Color Rendering Index (CRI):
>82
R9:
5 (for BX500WW) and 13 (for BX500NW)

Application Suggestion

Any applicable lighting fixture with ballast and starter bypassed.

Construction

IP Rating:
For Wet locations
Light Beam Angle:
120°
Ambient Temperature:
Suitable for 55°C (131°F) ambient temperature
Cold Weather Starting:
The minimum starting temperature is -4 F°/-20° C
Installation:
Replace MH/HPS lamps, bypass ballast or starter. Lamp can be installed in any direction.
Thermal Management:
Active thermal management with external Heatsink

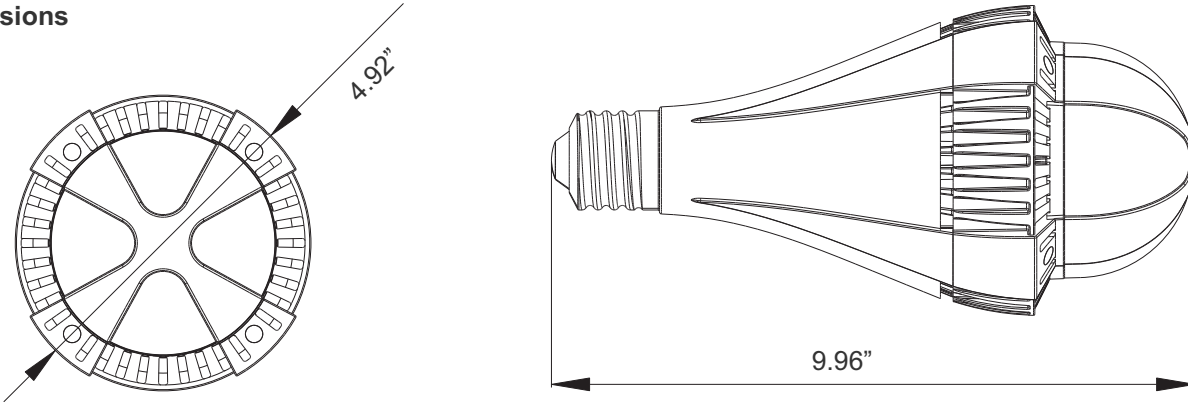| **Dimensions:**	**Base:**
Dia 4.94 in x L 9.96 in.	E39 (Modul Base)
	Net Weight:
	2.09 lb

Electrical

100w, 100-277v, 50-60 Hz, Power Factor >0.90
Not Dimmable (480V Option Available)

Ordering Matrix

Model	Color Temperature
BX500	NW

WW = 3000 K
NW = 5000 K

BX Series LED Light Bulb

Dimensions

4.92"

9.96"

Zonal Lumen Summary (BX500WW/ BX500NW)

Zone	0-30	0-40	0-60	0-90	0-120	0-180
Lumens	2628.4	4324.8	8034.8	10140	10144	10157
% Fixt	25.9%	42.6%	79.11%	99.8%	99.9%	100%
Zone	60-90	90-120	90-130	90-150	90-180	0-60.53
Lumens	3015.2	16.12	18.86	24.46	28.38	8125.7
% Fixt	29.69%	0.16%	0.19%	0.24%	0.28%	80%

Zone	Lumens	Zone	Lumens
0-10	321.14	90-100	0.89
10-20	919.17	100-110	1.32
20-30	1388.05	110-120	2.08
30-40	1696.43	120-130	2.73
40-50	1859.93	130-140	2.92
50-60	1850.12	140-150	2.68
60-70	1549.72	150-160	2.18
70-80	494.70	160-170	1.39
80-90	61.21	170-180	0.35

Light Distribution Curve
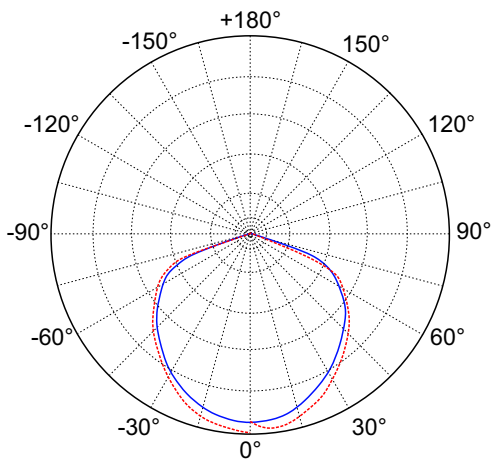
Illuminance at Distance

Distance	Center Beam	Beam Width
17 ft	10.2 fc	150 ft
34 ft	2.7 fc	203 ft
51 ft	1.2 fc	240 ft
68 ft	0.7 fc	280 ft
85 ft	0.5 fc	283 ft
102 ft	0.3 fc	320 ft