



OVERVIEW

The BU Series is one of the most versatile bulbs on the market. Physically compact with a modern look. These units deliver up to 5285 lumens and multiple color temperatures which allow for a variety of different solutions to fit your needs. Some applications for this bulb include: Recessed Lighting, Wall Packs, Canopies, some enclosed outdoor fixtures.

- Limited Warranty: 3 Years
- Efficacy: up to 112.6 LPW
- Lumen Output: 2890- 5285 L
- Wattage: 30 -50 W
- 70/100/150W MH/HPS Replacement
- High Performance LEDs
- Compact Design
- Active Thermal Management
- Self Ballasted
- Energy Saving at Affordable Cost

Project:

Type:

Prepared By:

Date:

Models

Color Temp.	Lumen Output (Lm)			Efficacy (LPW)		
	(30 W) BU150	(40 W) BU200	(50 W) BU250	(30 W) BU150	(40 W) BU200	(50 W) BU250
WW (3000K)	2890	4235	5040	107.8	104.5	101.9
NW (4000K)	2930	4320	5120	109.5	106.5	103.5
DW (5000K)	2970	4400	5200	111.0	108.8	105.2
CW (6000K)	3020	4490	5285	112.6	110.7	106.9

Technical Specifications

Warranty

Paclights warrants these LED products will be free from defects in materials and workmanship for a period of three (3) 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

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.

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

LED Characteristics (cont.)

Color Stability:

LED color temperature is warranted to shift no more than 200K in CCT over a 3 year period.

Color Uniformity:

PacLight's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2011

Color Rendering Index (CRI):

>83

R9:

19 (for BU150 and BU200) and 18 (for BU250)

Construction

Light Beam Angle:

160°

Ambient Temperature:

Suitable for 55°C (131°F) ambient temperature

Cold Weather Starting:

The minimum starting temperature is -4 F°/-20° C

Construction (cont.)

Install:

Replace MH/HPS lamps, bypass ballast or starter. Lamp can be installed in any direction.

Thermal Management:

Active thermal management (Fan) with external Heatsink

Dimensions:

3.5 in x 5.87 in.

Weight:

0.58 lb (BU150)
0.66 lb (BU200/250)

Base:

E26 (Medium Base)

Electrical

Driver:

100-277v, 50-60 Hz, Power Factor >0.90
Non Dimmable

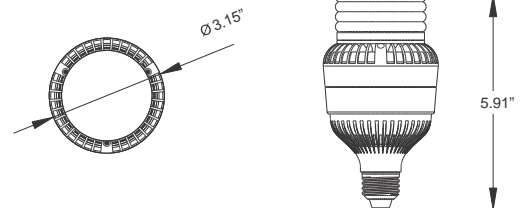
Application Suggestion

Any applicable lighting fixture with ballast and starter bypassed.

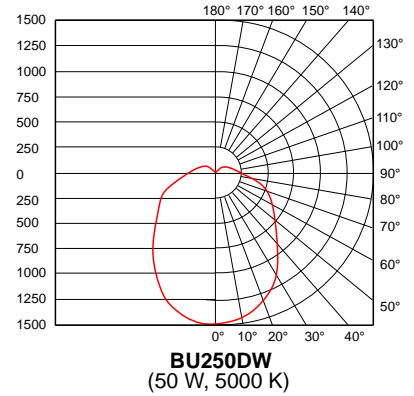
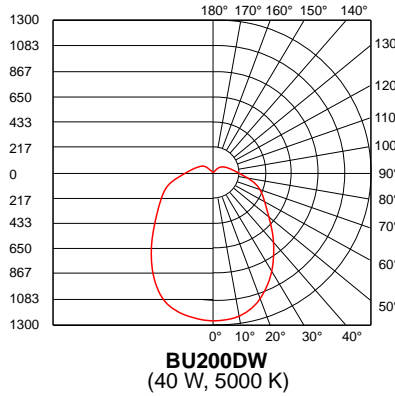
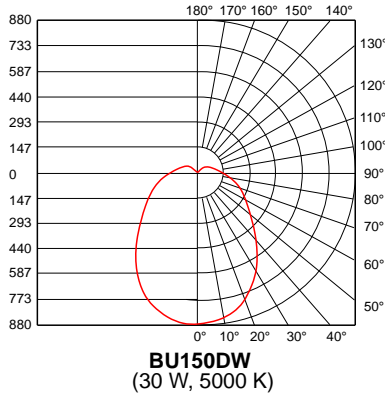
Ordering Matrix

Model	Wattage	Color Temperature
BU	150	CW
	150 = 30 W	WW = 3000 K
	200 = 40 W	NW = 4000 K
	250 = 50 W	DW = 5000 K
		CW = 6000 K

Dimensions



Polar Candela Distribution



Illuminance at Distance

BU150DW (30 W, 5000K)

Distance	Center Beam	Beam Width
17 ft	3.03 fc	36.6 ft
34 ft	0.76 fc	73.1 ft
51 ft	0.34 fc	109.7 ft
68 ft	0.19 fc	146.3 ft
85 ft	0.12 fc	182.9 ft
102 ft	0.08 fc	219.4 ft

BU200DW (40 W, 5000K)

Distance	Center Beam	Beam Width
17 ft	4.36 fc	36.7 ft
34 ft	1.09 fc	73.5 ft
51 ft	0.48 fc	100.2 ft
68 ft	0.27 fc	146.9 ft
85 ft	0.17 fc	183.7 ft
102 ft	0.12 fc	220.4 ft

BU250DW (50 W, 5000K)

Distance	Center Beam	Beam Width
17 ft	5.14 fc	38.6 ft
34 ft	1.29 fc	77.2 ft
51 ft	0.57 fc	115.9 ft
68 ft	0.32 fc	154.5 ft
85 ft	0.21 fc	193.1 ft
102 ft	0.14 fc	231.7 ft

Zonal Lumen Summary

BU150DW

Zone	0-30	0-40	0-60	60-90	70-100
Lumens	658.3	1037.8	1720.9	722.3	573.7
Luminaire	22.8%	36%	59.7%	25.1%	19.9%
Zone	90-120	0-90	90-180	0-180	
Lumens	327.3	2443.2	440.0	2883.2	
Luminaire	11.4%	84.7%	15.3%	100%	

BU200DW

Zone	0-30	0-40	0-60	60-90	70-100
Lumens	943.6	1486.9	2478.2	1072.7	832.7
Luminaire	22.7%	35.8%	59.6%	25.8%	20%
Zone	90-120	0-90	90-180	0-180	
Lumens	450.5	3550	605.7	4156.6	
Luminaire	10.8%	85.4%	14.6%	100%	

BU250DW

Zone	0-30	0-40	0-60	60-90	70-100
Lumens	1109.8	1757.4	2973.8	1282.2	983.8
Luminaire	22.2%	35.1%	59.4%	25.6%	19.7%
Zone	90-120	0-90	90-180	0-180	
Lumens	553.2	4256.0	748.5	5004.6	
Luminaire	11.1%	85%	15%	100%	

Lumens Per Zone

BU150DW

Zone	Lumens	% Total
0-10	83.0	2.9%
10-20	234.8	8.1%
20-30	340.5	11.8%
30-40	379.5	13.2%
40-50	361.6	12.5%
50-60	321.6	11.2%
60-70	286.3	9.9%
70-80	247.3	8.6%
80-90	188.7	6.5%
90-100	137.7	4.8%
100-110	107.2	3.7%
110-120	82.4	2.9%
120-130	58.8	2%
130-140	30.8	1.1%
140-150	15.3	0.5%
150-160	6.6	0.2%
160-170	1.0	0%
170-180	0.1	0%

BU200DW

Zone	Lumens	% Total
0-10	119.7	2.9%
10-20	337.7	8.1%
20-30	486.2	11.7%
30-40	543.3	13.1%
40-50	521.4	12.5%
50-60	469.9	11.3%
60-70	432.1	10.4%
70-80	369.9	8.9%
80-90	270.7	6.5%
90-100	192.2	4.6%
100-110	147.1	3.5%
110-120	111.3	2.7%
120-130	80.0	1.9%
130-140	42.6	1%
140-150	21.5	0.5%
150-160	9.5	0.2%
160-170	1.4	0%
170-180	0.2	0%

BU250DW

Zone	Lumens	% Total
0-10	140.8	2.8%
10-20	395.5	7.9%
20-30	573.6	11.5%
30-40	647.6	12.9%
40-50	630.9	12.6%
50-60	585.5	11.7%
60-70	531.2	10.6%
70-80	431.8	8.6%
80-90	319.2	6.4%
90-100	232.8	4.7%
100-110	181.3	3.6%
110-120	139.2	2.8%
120-130	100.3	2%
130-140	54.4	1.1%
140-150	27.1	0.5%
150-160	11.6	0.2%
160-170	1.7	0%
170-180	0.2	0%