ECOSENSE®

EcoSpec® Floodlight Bullet

EcoSpec® Floodlight Bullet is a powerful architectural floodlight and landscape luminaire offering superior binning and a full range of optical solutions. The EcoSpec Floodlight Bullet is indoor and outdoor rated with a robust cast aluminum housing and glare control options that include flush or angled snoots.

The EcoSpec Floodlight Bullet offers field interchangeable optical lenses in a wide range of beam angle distributions to allow for simple optical design modifications without the need to replace the entire fixture. The integral driver connects directly to AC, line voltage power, and is dimmable through ELV or TRIAC dimming hardware. This luminaire also has great flexibility with 150deg vertical aiming and 358deg horizontal rotation making it ideal for any application.

Features:

- Dimmable: TRIAC / ELV (RP)
- Integral Driver / AC Power
- Flicker-Free
- Long Life (L70)
- Gore® Vent
- Field Interchangeable Accessory Lenses
- 358° Horizontal Rotation
- 150° Vertical Aiming

SPECIFICATIONS

PERFORMANCE	Correlated Color Temperature (K)	Lumen Output / Input Power (IES Measurements)	Efficacy (lm/W)
	2700K	1614 lm / 27.0W	60 lm/W
	3000K	1828 lm / 27.7W	66 lm/W
	3500K	1937 lm / 28.9W	67 lm/W
	4000K	2048 lm / 28.4W	72 lm/W
	Color Rendering Index	Min. 80	
	Color Consistency	2 Step MacAdam Ellipse	
	Rated Life	L_{70}>100,000 hours @ 25°C* / L_{70} 50,000 hours @ 50°C*	
		* Calculations for LED fixtures are based on measurements that comply with IES LM-80 testing procedures and IES TM-21 Calculator.	
ELECTRICAL	Power Consumption	27W Typical, 30W Maximum	
	Power Factor	Min. 0.90	
	Operating Voltage	100-120VAC, 220-240VAC, 277VAC (ETL), 50-60 Hz	
	Operating /Startup Temperature	–40°F to 122°F (–40°C to 50°C) [Storage: –40°F to 176°F (–40°C to 80°C)]	
CONTROL	Dimming	100-120VAC - TRIAC/ELV-RP*; 220-240VAC - TRIAC/ELV-RP*; 277VAC Non-Dim	
		*ELV-RP = Electronic Low Voltage, Reverse Phase	
PHYSICAL	Dimensions	Dia. 5.8" x H 10.95" x L 9.33" (147mm x 278mm x 237mm)	
	Housing	Cast Aluminium; Clear Glass Lens	
	Weight	6.6 lbs (3 kg)	
	Cable	Flying Lead	
	Shielding	Optional 45° Cutoff Snoot, with 360° locking rotation	
	Environment	Indoor / Outdoor; CE Certified IP66 / ETL Certified for Wet Locations	
	Beam Angle	Native: 11°x 11° / Accessory Lens: 20° / 30° / 40° / 60° / 80° / 10°x 60° / 30°x 60°	
	Mounting	Mounting Bolt with 1/2" NPT/M20 Threaded Stem	
FIXTURE RATING & CERTIFICATIONS	CE, ENEC, C-Tick Certified		
	ETL Certified		
	RoHS Compliant		
WARRANTY	5 Year Warranty		

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ORDERING INFORMATION

Choose the option that best suits your needs and write its corresponding code on the appropriate line to form the product code.

BUL-L	-		-		-		-		-	11

MODEL	COLOR	VOLTAGE	FINISH	OPTIC
BUL-L (Large)	**27** - 2700K	**120-IC** - 100-120VAC*	**BZ** - Bronze	**11** - 11° x 11°
	30 - 3000K	**220-EC** - 220-240VAC**	**BK** - Black	(Sealed Base Optic)
	35 - 3500K	**277-IC** - 277VAC*	**WH** - White	
	40 - 4000K			

EXAMPLE: BUL-L - 40 - 120-IC - BK - 11

Mounting / Wiring Notes:

* 120VAC / 277VAC
1) Internal Cable with 8" Lead
2) 1/2"NPT Mounting Thread
3) 120/277VAC Product comes standard with one 5" Architectural Mounting Canopy in the same finish as the ordered fixture.

** 220VAC
1) External Cable with 4'-0" (1.2m) Lead
2) M20x1.5P Mounting Thread
3) 220VAC Product comes standard with one 5" Architectural Mounting Canopy in the same finish as the ordered fixture.

Special Order Cable: Consult EcoSense Representative

120-EC   **External Cable** for 100-120VAC / 277VAC product   (Example: BUL-L-CCT-**120-EC-**FINISH-11)

220-IC   **Internal Cable** for 220-240VAC product   (Example: BUL-L-CCT-**220-IC-**FINISH-11)

277-EC   **External Cable** for 277VAC product   (Example: BUL-L-CCT-**277-EC-**FINISH-11)

ACCESSORIES

Order accessories as separate catalogue numbers in addition to the product above.

Shielding Options		
90° Cap (Standard with base fixture)		
45° Snoot, Bronze	**BUL-L-45S-BZ**	
45° Snoot, Black	**BUL-L-45S-BK**	
45° Snoot, White	**BUL-L-45S-WH**	

Optical Film Lens (Light Shaping Diffuser)			
Standard Lens Distributions		**Built-to-order Lens Distributions**	
Optical Lens 20° x 20°	**BUL-L-LSD-20**	Optical Lens 30° x 30°	**BUL-L-LSD-30**
Optical Lens 40° x 40°	**BUL-L-LSD-40**	Optical Lens 80° x 80°	**BUL-L-LSD-80**
Optical Lens 60° x 60°	**BUL-L-LSD-60**	Optical Lens 30° x 60°	**BUL-L-LSD-30x60**
Optical Lens 10° x 60°	**BUL-L-LSD-10x60**		

EcoSense Lighting Inc.
915 Wilshire Boulevard
Suite 2175
Los Angeles, CA 90017

Phone   310-496-6255
Fax   310-496-6256
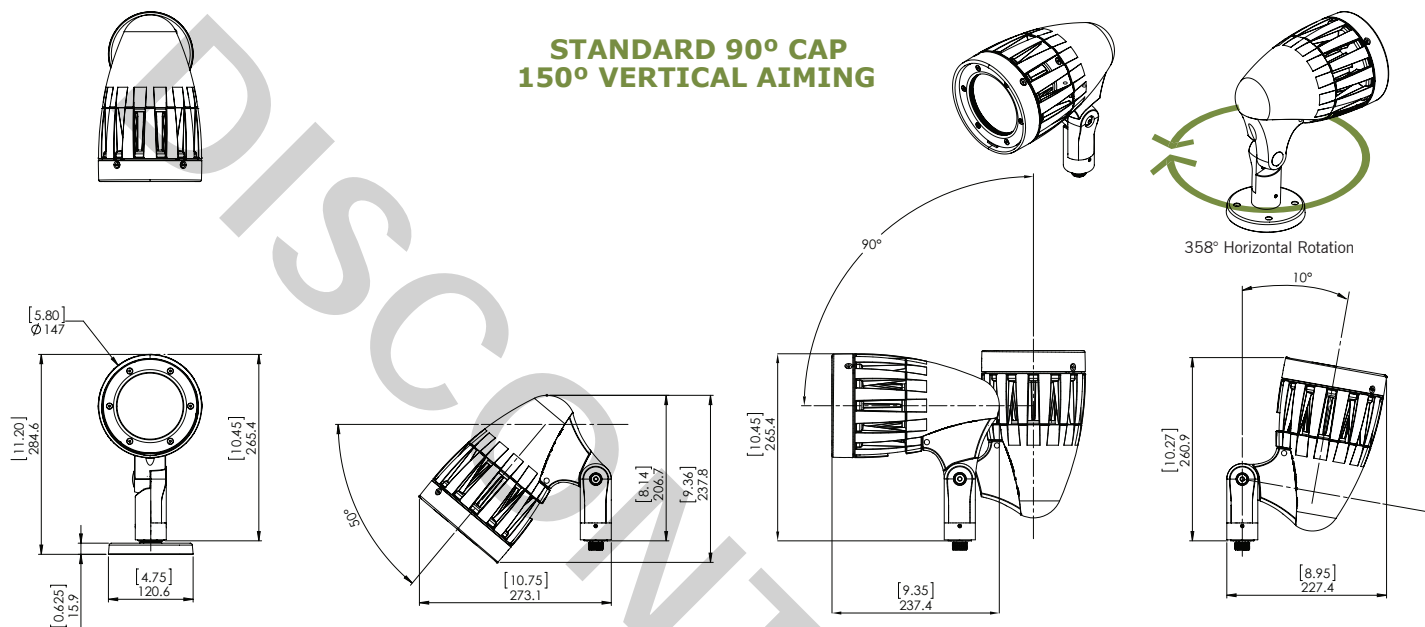Toll Free   855-632-6736
   855-6-ECOSEN

ECOSENSELIGHTING.COM

DIMENSIONS

For complete dimensional submittal drawings and full scale CAD drawings, please visit ecosenselighting.com.

STANDARD 90º CAP
150º VERTICAL AIMING

358° Horizontal Rotation

[5.80] Ø 147

[11.20] 284.6

[10.45] 265.4

[4.75] 120.6

[0.625] 15.9

90°

50°

[8.14] 206.7

[9.36] 237.8

[10.75] 273.1

[10.45] 265.4

[9.35] 237.4

10°

[10.27] 260.9

[8.95] 227.4

ACCESSORY 45º SNOOT
150º VERTICAL AIMING

[5.80] Ø 147

[10.43] 265

[8.14] 206.7

[9.33] 237

[13.24] 336.2

[13.72] 348.5

[10.43] 265

[9.35] 237.5

[13.65] 346.7
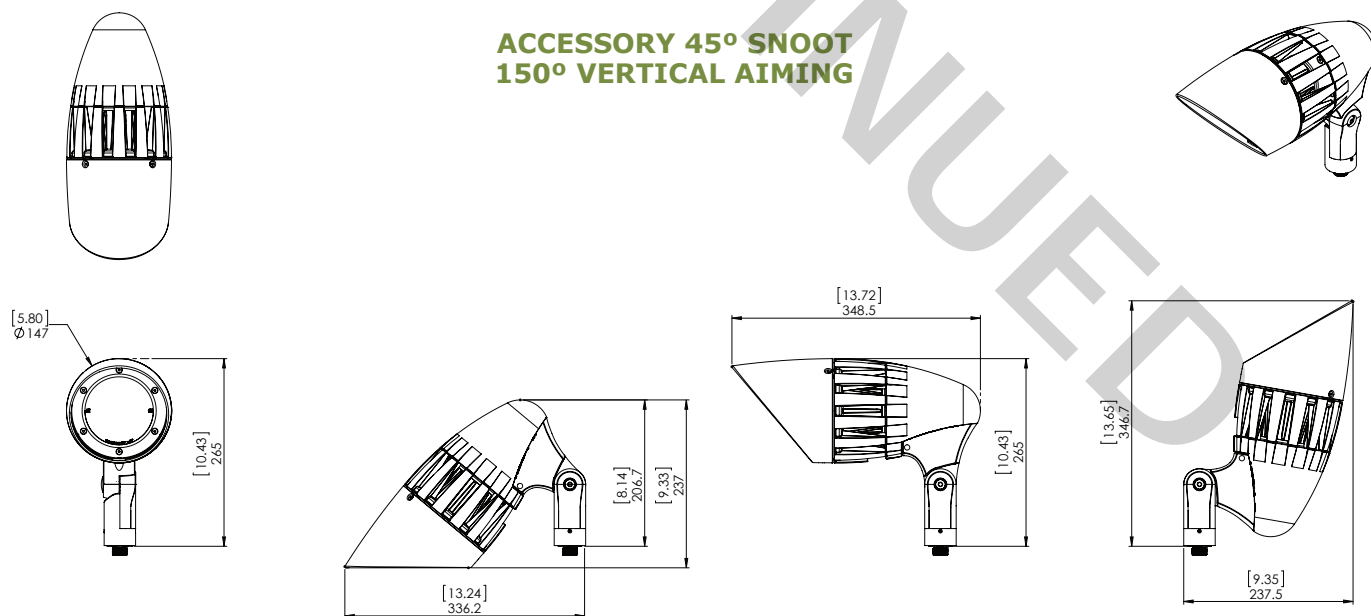
DIMENSION IN
[INCHES] / MM

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EcoSpec® Floodlight Bullet

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TYPE

DISTRIBUTIONS

11° | 11°
5.5° | 5.5° | 5.5° | 5.5°
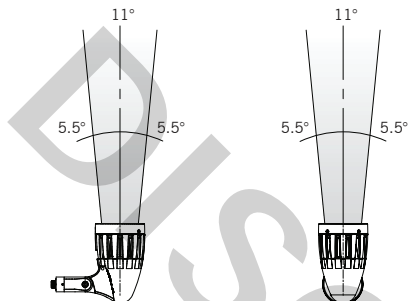
Native Distribution - Sealed within Fixture: **11° x 11°**

20° | 20°
10° | 10° | 10° | 10°
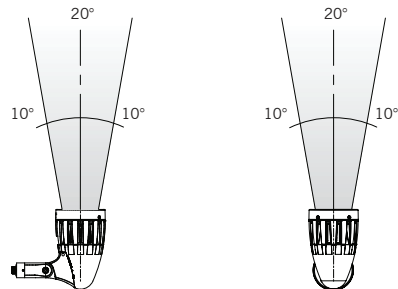
Accessory - Optical Film Panel: **20° x 20° # BUL-L-LSD-20**

30° | 30°
15° | 15° | 15° | 15°
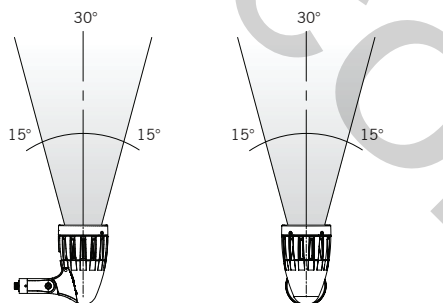
Accessory - Optical Film Panel: **30° x 30° # BUL-L-LSD-30**

40° | 40°
20° | 20° | 20° | 20°
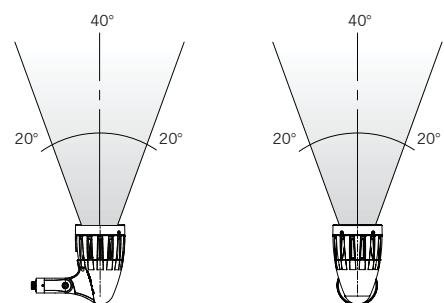
Accessory - Optical Film Panel: **40° x 40° # BUL-L-LSD-40**

60° | 60°
30° | 30° | 30° | 30°
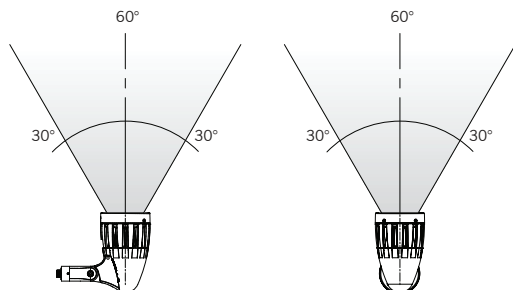
Accessory - Optical Film Panel: **60° x 60° # BUL-L-LSD-60**

80° | 80°
40° | 40° | 40° | 40°
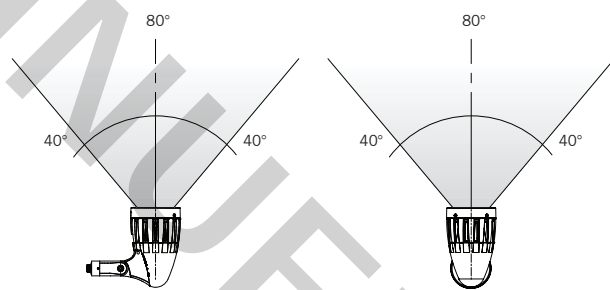
Accessory - Optical Film Panel: **80° x 80° # BUL-L-LSD-80**

10° | 60°
5° | 5° | 30° | 30°

*Note: Lens rotates 360° for correct asymmetric orientation
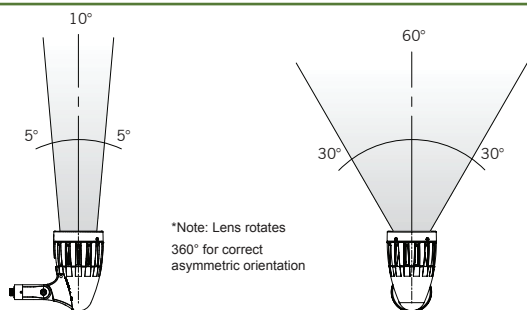
Accessory - Optical Film Panel*: **10° x 60° # BUL-L-LSD-10x60**

30° | 60°
15° | 15° | 30° | 30°

*Note: Lens rotates 360° for correct asymmetric orientation
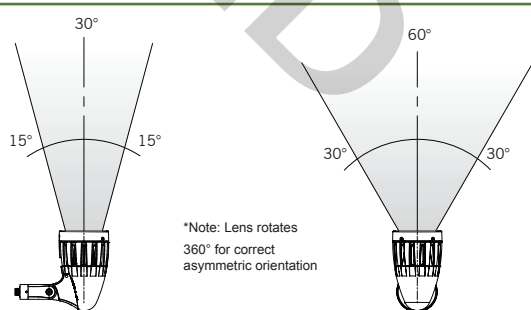
Accessory - Optical Film Panel*: **30° x 60° # BUL-L-LSD-30x60**

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TYPE
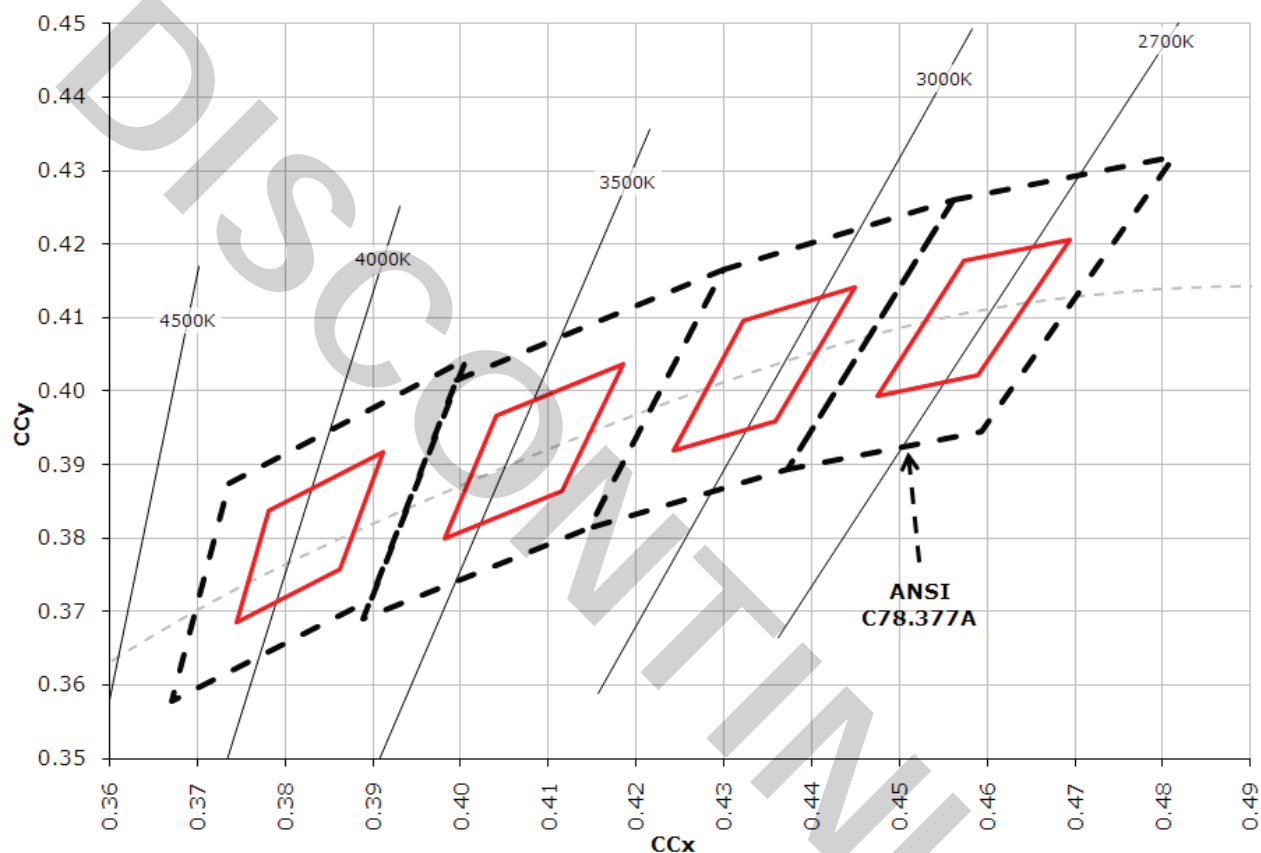
COLOR CONSISTENCY

EcoSense Lighting boasts exceptional color consistency across all products as a result of strict LED binning methods. First, EcoSense works closely with LED manufacture(s) to secure LEDs from the tightest binning, selecting only LEDs that fall within a bin standard that is ¼ the size of ANSI Standard (C78.377A). Secondly, EcoSense applies an internal binning process that ensures even more reliability and even tighter LED bins for the final product. In these bins, color temperature will be maintained within 2 MacAdam Ellipse, ensuring the most consistent light quality. The result is beautiful, uniform color consistency from fixture to fixture.

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Toll Free 855-632-6736
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PHOTOMETRY CHARACTERISTICS

For complete library of IES files, please visit:
ecosenselighting.com

11°x 11°

2700K*

CHARACTERISTICS:
Floodlight Bullet
2700K / 11°X 11°

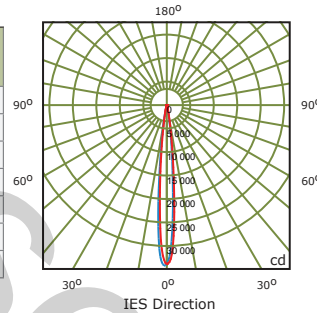|	
Total Rated Fixture Lumens	1614
Total Luminaire Efficiency	100%
Total Input Watts	27W
Horizontal Beam Angle (50%)	10.1
Vertical Beam Angle (50%)	10.3
Horizontal Field Angle (10%)	20.1
Vertical Field Angle (10%)	20.3

IES Direction

	0	15	45	60	90
0	33841.3	33789	33810.5	33774.6	33785.9
5	20613.8	20868.9	20173.3	19167.1	17642.7
15	830	847.2	787.3	741.8	695.6
25	168.5	169.9	162.9	155.5	148.3
35	55.5	55.2	54.8	54.2	53
45	36.2	36.3	36.1	35.5	35.2
55	23	23	23.1	23.2	22.8
65	10.7	11.3	10.4	11	10.2
75	2.4	2.3	2.2	2.1	2
85	0	0	0	0	0
90	0	0	0	0	0

Height	Eavg,Emax	Angle:9.97deg	Diameter
3.281ft / 1m	2304,3175fc / 24798,341731x		0.5724ft / 17.45cm
6.562ft / 2m	575.9,793.7fc / 6199,854311x		1.145ft / 34.89cm
9.843ft / 3m	256.0,352.8fc / 2755,379711x		1.717ft / 52.34cm
13.12ft / 4m	144.0,198.4fc / 1550,213611x		2.289ft / 69.78cm
16.4ft / 5m	92.15,127.0fc / 991.9,136711x		2.862ft / 87.23cm
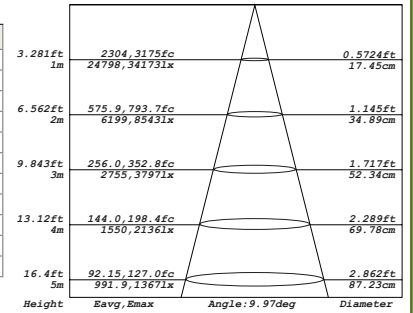
Photometrics by an independant lab in accordance with current IES published Procedures.
* Lumen measurements comply with IES LM-79-08.
IES data is available at www.ecosenselighting.com

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TYPE

LIGHTING FACTS LABELS

LED lighting facts®
A Program of the U.S. DOE

EcoSense Lighting

Light Output (Lumens)	**1615**
Watts	**27**
Lumens per Watt (Efficacy)	**59**
Color Accuracy Color Rendering Index (CRI)	**83**

Light Color
Correlated Color Temperature (CCT) **2700 (Warm White)**

Warm White	Bright White	Daylight
2700K 3000K	4500K	6500K

LED Lumen Maintenance Projection at 25,000 Hours at 25°C Ambient*	**90.1%**
Warranty**	**Yes**

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: *Approved Method for the Electrical and Photometric Testing of Solid-State Lighting.* The U.S. Department of Energy (DOE) verifies product test data and results.

* **Based on TM-21 projections for the light source.**

** **See www.lightingfacts.com/products for details.**

Registration Number: XNX5-CBDGTG (11/5/2013)

Model Number: BUL-L-27-120-**-**-11 [Upgrade : 10/16/2013]

Type: Luminaire - Other

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