

**BKSSL**  
SOLID STATE LIGHTING



**NITE STAR™**

<b>PROJECT:</b>	
<b>TYPE:</b>	
<b>CATALOG NUMBER:</b>	
<b>SOURCE:</b>	
<b>NOTES:</b>	

**CATALOG NUMBER LOGIC**



**Example** - NS - LED - e23 - SP - A5 - BZW - 12 - 11 - 360SL

Material

- Blank - Aluminum
- B - Brass
- S - Stainless Steel

Series

NS - Nite Star™

Source

LED - 'e' Technology with Integral Driver

LED Type

- e36 - 8WLED/2.7K
- e22 - 8WLED/3K
- e23 - 8WLED/4K
- e24 - 8WLED/Red
- e25 - 8WLED/Green
- e26 - 8WLED/Blue
- e27 - 8WLED/Amber

Optics\*

- NSP - Narrow Spot (Red Indicator)
- SP - Spot (Green Indicator)
- MFL - Medium Flood (Yellow Indicator)
- WFL - Wide Flood (Blue Indicator)

Adjust-e-Lume™ Output Intensity\*\* (Choose factory setting)

A9 (Standard), A8, A7, A6, A5, A4, A3, A2, A1

\*\*Please see Adjust-e-Lume™ photometry to determine desired intensity.

Finish

**Aluminum Finish**

Powder Coat Color	Satin	Wrinkle
Bronze	<b>BZP</b>	<b>BZW</b>
Black	<b>BLP</b>	<b>BLW</b>
White (Gloss)	<b>WHP</b>	<b>WHW</b>
Aluminum	<b>SAP</b>	—
Verde	—	<b>VER</b>

**Brass Finish**

Machined	<b>MAC</b>
Polished	<b>POL</b>
Mitique™	<b>MIT</b>

**Stainless Finish**

Machined	<b>MAC</b>
Polished	<b>POL</b>
Brushed	<b>BRU</b> <small>Interior use only.</small>

**Premium Finish**

<b>ABP</b> Antique Brass Powder	<b>CMG</b> Cascade Mountain Granite	<b>RMG</b> Rocky Mountain Granite
<b>AMG</b> Aleutian Mountain Granite	<b>CRI</b> Cracked Ice	<b>SDS</b> Sonoran Desert Sandstone
<b>AQW</b> Antique White	<b>CRM</b> Cream	<b>SMG</b> Sierra Mountain Granite
<b>BCM</b> Black Chrome	<b>HUG</b> Hunter Green	<b>TXF</b> Textured Forest
<b>BGE</b> Beige	<b>MDS</b> Mojave Desert Sandstone	<b>WCP</b> Weathered Copper
<b>BPP</b> Brown Patina Powder	<b>NBP</b> Natural Brass Powder	<b>WIR</b> Weathered Iron
<b>CAP</b> Clear Anodized Powder	<b>OCP</b> Old Copper	<small>Also available in RAL Finishes See submittal SUB-1439-00</small>

Lens Type

- 12 - Soft Focus Lens
- 13 - Rectilinear Lens

Shielding

- 11 - Honeycomb Baffle

Option

- 360SL - 360SL™ Rotational Knuckle Mounting System

**LM79 DATA**

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e36	2700K	8.4	90
e22	3100K	8.4	90
e23	4100K	8.4	75
e24	Red (627nm)	7.9	~
e25	Green (530nm)	8.4	~
e26	Blue (470nm)	8.4	~
e27	Amber (590nm)	7.9	~

**L70 DATA**

Minimum Rated Life (hrs.) 70% of initial lumens (L70)
50,000
50,000
50,000
50,000
50,000
50,000
50,000

**\*OPTICAL DATA**

Beam Type	Angle	Visual Indicator
Narrow Spot	14°	Red Dot
Spot	18°	Green Dot
Medium Flood	25°	Yellow Dot
Wide Flood	36°	Blue Dot

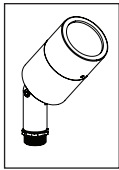
**B-K LIGHTING**

40429 Brickyard Drive • Madera, CA 93636 • USA  
559.438.5800 • FAX 559.438.5900  
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE  
12-13-11

DRAWING NUMBER  
SUB000929

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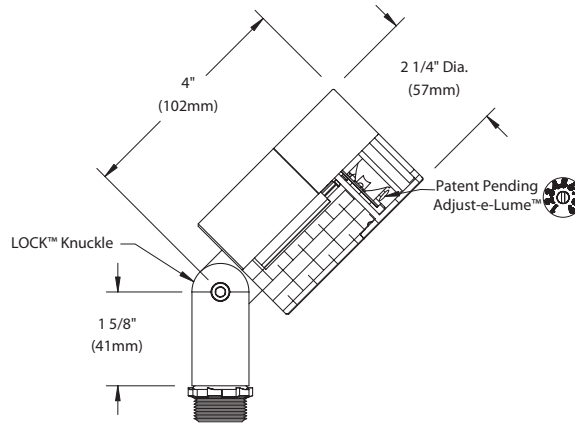
**BKSSL**  
SOLID STATE LIGHTING

the power of with **adjust-e-Lume™** TECHNOLOGY

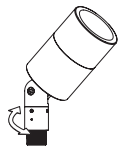
**NITE STAR™**

<b>PROJECT:</b>	
<b>TYPE:</b>	

**SIDE VIEW**



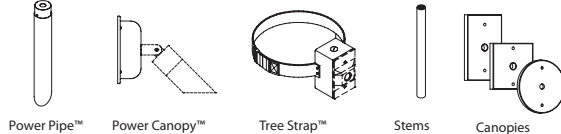
**360 SL™**



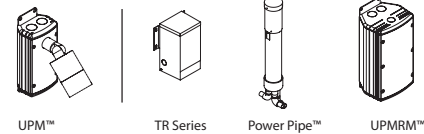
**Accessories (Configure separately)**

All dimensions indicated on this submittal are nominal. Contact Technical Sales if you require more stringent specifications.

**Mounting:**



**Remote Transformers:**



**Horizontal Rotation (Optional 360SL™ Knuckle)**

**SPECIFICATIONS**

**GreenSource Initiative™**

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced onsite. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult [www.bklighting.com/greensource](http://www.bklighting.com/greensource) for program requirements.

**Materials**

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 304).

**Body**

Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

**Knuckle**

The LOCK™ (Locking 'O' Ring Compression Knuckle) is comprised of two components. The first is integral to the body and features an interior, machined taper. The second is machined from solid billet and features a second, reverse angle taper. The resultant mechanical taper-lock allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. 1/2" pipe thread for mounting.

Optional 360SL™ additionally provides biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

**Cap**

Fully machined. Accommodates [1] lens or louver media. Flush lens.

**Lens**

Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment. Specify soft focus (#12) or rectilinear (#13) lens.

**BKSSL™**

Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified components.

Integral non-dimming driver. Minimum 50,000 hour rated life at 70% of initial lumens (L70). BKSSL technology provides long life, significant energy reduction and exceptional thermal management.

**Adjust-e-Lume™ (Pat. Pending)**

Integral electronics allows dynamic lumen response at the individual fixture. Indexed (100% to 25% nom.) lumen output. Maintains output at desired level or may be changed as conditions require. Specify factory preset *output intensity*.

**Optics**

Interchangeable OPTIKIT™ modules permit field changes to optical distribution. Color-coded for easy reference: Narrow Spot (NSP) = Red. Spot (SP) = Green. Medium Flood (MFL) = Yellow. Wide Flood = Blue.

**Remote Transformer**

For use with 12VAC remote transformer.

**Wiring**

Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

**Hardware**

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw is additionally black oxide treated for additional corrosion resistance.

**Finish**

StarGuard® (Pat. Pend.), a RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Brass components are available in powder coat or handcrafted metal finish. Stainless steel components are available in handcrafted metal finish. (Brushed finish for interior use only).

**Warranty**

5 year limited warranty.




**Certification and Listing**

ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE ([www.lightingfacts.com](http://www.lightingfacts.com)). ETL Listed to ANSI/UL Standard 1838 and UL Standard 8750. Certified to CAN/CSA Standard C22.2 No. 9, CSA TIL B-58B. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Suitable for installation within 4' of the ground. IP66 Rated. Made in USA.








\*Teflon is a registered trademark of DuPont Corporation. \*Energy Star is a registered trademark of the United States Environmental Protection Agency.

Select OptiKit™ for desired distribution

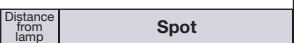

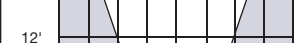


- RED**  **Narrow Spot (NSP)**
- GREEN**  **Spot (SP)**
- YELLOW**  **Medium Flood (MFL)**
- BLUE**  **Wide Flood (WFL)**

Set adjust-e-lume™ Dial to desired output


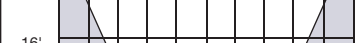
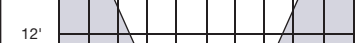
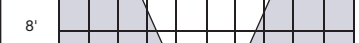



Distance from lamp	Narrow Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		2.4	3.1	5.0	6.3	7.6	8.9	9.2	9.3	9.3
16'		3.8	4.9	7.9	9.9	11.9	13.9	14.3	14.6	14.6
12'		6.7	8.6	14.0	17.6	21.2	24.7	25.5	25.9	25.9
8'		15.1	19.4	31.4	39.7	47.6	55.5	57.3	58.3	58.3
4'		60.4	77.7	125.8	158.6	190.4	222.1	229.2	233.0	233.2
	4' 2' 0' 2' 4'									


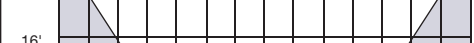
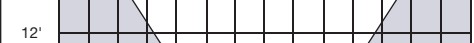


Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		1.6	2.1	3.3	4.3	5.3	5.9	6.1	6.3	6.3
16'		2.6	3.3	5.2	6.7	8.2	9.3	9.6	9.8	9.9
12'		4.5	5.8	9.3	12.0	14.7	16.5	17.0	17.5	17.5
8'		10.2	13.0	20.9	26.9	33.0	37.0	38.3	39.4	39.4
4'		40.9	52.1	83.4	107.8	131.9	148.1	153.1	157.5	157.8
	8' 6' 4' 2' 0' 2' 4' 6' 8'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80




Distance from lamp	Medium Flood	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		0.9	1.3	2.0	2.5	3.1	3.4	3.6	3.6	3.6
16'		1.5	2.0	3.1	3.9	4.8	5.4	5.6	5.6	5.7
12'		2.6	3.6	5.5	6.9	8.6	9.5	9.9	9.9	10.1
8'		5.9	8.0	12.3	15.5	19.3	21.5	22.2	22.4	22.6
4'		23.6	32.1	49.3	62.2	77.1	85.8	88.9	89.5	90.5
	10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Wide Flood	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		0.4	0.6	0.9	1.1	1.4	1.6	1.6	1.7	1.7
16'		0.7	0.9	1.4	1.8	2.1	2.5	2.6	2.6	2.6
12'		1.2	1.6	2.5	3.2	3.8	4.4	4.6	4.7	4.7
8'		2.7	3.7	5.6	7.2	8.6	10.0	10.3	10.5	10.6
4'		10.9	14.8	22.3	28.6	34.3	39.9	41.1	42.2	42.3
	14' 12' 10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10' 12' 14'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Select OptiKit™ for desired distribution

- RED**  **Narrow Spot (NSP)**
- GREEN**  **Spot (SP)**
- YELLOW**  **Medium Flood (MFL)**
- BLUE**  **Wide Flood (WFL)**

Set adjust-e-lume™ Dial to desired output



**Adjust-e-Lume™ Setting**

Distance from lamp	Narrow Spot	1	2	3	4	5	6	7	8	9
20'		2.4	2.9	4.9	6.1	7.3	8.8	9.1	9.3	9.3
16'		3.8	4.6	7.6	9.6	11.4	13.8	14.3	14.5	14.6
12'		6.7	8.2	13.5	17.0	20.3	24.5	25.4	25.7	25.9
8'		15.1	18.4	30.3	38.2	45.8	55.2	57.0	57.9	58.2
4'		60.3	73.6	121.3	152.8	183.1	220.9	228.2	231.6	232.8

4' 2' 0' 2' 4'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

**Adjust-e-Lume™ Setting**

Distance from lamp	Spot	1	2	3	4	5	6	7	8	9
20'		1.6	2.1	3.1	4.1	4.9	6.0	6.1	6.2	6.3
16'		2.5	3.3	4.9	6.4	7.6	9.3	9.6	9.8	9.9
12'		4.5	5.9	8.7	11.4	13.5	16.6	17.0	17.3	17.5
8'		10.2	13.2	19.5	25.6	30.5	37.3	38.3	39.0	39.4
4'		40.6	52.7	78.1	102.3	121.9	149.1	153.1	156.0	157.8

8' 6' 4' 2' 0' 2' 4' 6' 8'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

**Adjust-e-Lume™ Setting**

Distance from lamp	Medium Flood	1	2	3	4	5	6	7	8	9
20'		1.0	1.2	1.9	2.4	2.9	3.4	3.5	3.6	3.7
16'		1.5	1.8	2.9	3.8	4.6	5.3	5.4	5.7	5.8
12'		2.6	3.3	5.2	6.7	8.1	9.5	9.6	10.1	10.2
8'		6.0	7.4	11.8	15.0	18.3	21.3	21.6	22.8	23.0
4'		23.8	29.5	47.0	60.2	73.3	85.1	86.4	91.2	92.2

10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80





**Adjust-e-Lume™ Setting**

Distance from lamp	Wide Flood	1	2	3	4	5	6	7	8	9
20'		0.4	0.5	0.9	1.1	1.3	1.6	1.7	1.7	1.7
16'		0.7	0.8	1.4	1.7	2.0	2.4	2.6	2.7	2.7
12'		1.2	1.5	2.5	3.0	3.5	4.3	4.7	4.7	4.7
8'		2.8	3.4	5.5	6.7	7.9	9.8	10.5	10.7	10.7
4'		11.1	13.4	22.2	26.8	31.7	39.0	41.9	42.6	42.7

14' 12' 10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10' 12' 14'

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Select OptiKit™ for desired distribution

- RED**  **Narrow Spot (NSP)**
- GREEN**  **Spot (SP)**
- YELLOW**  **Medium Flood (MFL)**
- BLUE**  **Wide Flood (WFL)**

Set adjust-e-lume™ Dial to desired output



Distance from lamp	Narrow Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		2.7	3.7	5.5	6.9	8.5	10.1	10.4	10.6	10.6
16'		4.3	5.7	8.7	10.8	13.3	15.7	16.2	16.5	16.5
12'		7.6	10.2	15.4	19.2	23.6	27.9	28.8	29.3	29.4
8'		17.1	23.0	34.7	43.2	53.0	62.8	64.8	66.0	66.1
4'		68.6	91.9	138.6	172.9	212.1	251.3	259.2	263.8	264.3
	4' 2' 0' 2' 4'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		1.9	2.4	3.7	4.8	6.0	6.8	7.1	7.1	7.1
16'		2.9	3.7	5.9	7.4	9.4	10.6	11.0	11.1	11.2
12'		5.2	6.6	10.4	13.2	16.7	18.9	19.6	19.8	19.8
8'		11.8	14.9	23.4	29.7	37.6	42.5	44.1	44.6	44.6
4'		47.0	59.6	93.6	118.9	150.3	170.1	176.3	178.3	178.6
	8' 6' 4' 2' 0' 2' 4' 6' 8'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Medium Flood	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		1.1	1.4	2.2	2.8	3.3	3.8	4.0	4.1	4.1
16'		1.7	2.1	3.4	4.3	5.1	5.9	6.3	6.4	6.4
12'		3.0	3.8	6.1	7.7	9.1	10.5	11.2	11.3	11.4
8'		6.7	8.5	13.8	17.3	20.5	23.7	25.2	25.4	25.6
4'		26.9	34.2	55.0	69.3	81.9	94.7	100.6	101.6	102.4
	10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Wide Flood	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		0.5	0.6	1.0	1.2	1.4	1.7	1.8	1.8	1.8
16'		0.8	1.0	1.5	1.8	2.2	2.7	2.8	2.8	2.9
12'		1.3	1.8	2.7	3.3	3.9	4.7	4.9	5.0	5.1
8'		3.0	4.0	6.0	7.3	8.8	10.7	11.1	11.3	11.4
4'		12.0	15.9	23.9	29.3	35.1	42.6	44.4	45.1	45.7
	14' 12' 10' 8' 6' 4' 2' 0' 2' 4' 6' 8' 10' 12' 14'									

Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

NiteStar - N. Spot

# lighting facts

A Program of the U.S. DOE

**Light Output (Lumens)** 365  
**Watts** 8.2  
**Lumens per Watt (Efficacy)** 44

**Color Accuracy**  
 Color Rendering Index (CRI) 68

**Light Color**  
 Correlated Color Temperature (CCT) 4102 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results 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.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: GCXV-F8KBF2  
 Model Number: NS-LED-e23-NSP-12  
 Type: Other

NiteStar - W. Flood

# lighting facts

A Program of the U.S. DOE

**Light Output (Lumens)** 345  
**Watts** 8.3  
**Lumens per Watt (Efficacy)** 41

**Color Accuracy**  
 Color Rendering Index (CRI) 67

**Light Color**  
 Correlated Color Temperature (CCT) 3981 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results 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.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: GCXV-IM8TLS  
 Model Number: NS-LED-e23-WFL-12  
 Type: Other

NiteStar - Spot

# lighting facts

A Program of the U.S. DOE

**Light Output (Lumens)** 354  
**Watts** 8.1  
**Lumens per Watt (Efficacy)** 43

**Color Accuracy**  
 Color Rendering Index (CRI) 68

**Light Color**  
 Correlated Color Temperature (CCT) 4080 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results 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.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: GCXV-XKQZJR  
 Model Number: NS-LED-e23-SP-12  
 Type: Other

NiteStar - M. Flood

# lighting facts

A Program of the U.S. DOE

**Light Output (Lumens)** 346  
**Watts** 8.2  
**Lumens per Watt (Efficacy)** 42

**Color Accuracy**  
 Color Rendering Index (CRI) 68

**Light Color**  
 Correlated Color Temperature (CCT) 4047 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results 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.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: GCXV-VHBBTD  
 Model Number: NS-LED-e23-MFL-12  
 Type: Other

NiteStar - Spot

# lighting facts

A Program of the U.S. DOE

**Light Output (Lumens)** 253  
**Watts** 8.2  
**Lumens per Watt (Efficacy)** 30

**Color Accuracy**  
 Color Rendering Index (CRI) 83

**Light Color**  
 Correlated Color Temperature (CCT) 3182 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results 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.

Visit [www.lightingfacts.com](http://www.lightingfacts.com) for the Label Reference Guide.

Registration Number: GCXV-EK4LV4  
 Model Number: NS-LED-e22-SP-12  
 Type: Other

Nite Star™ - Med. Flood - Recllinear

# lighting facts

A Program of the U.S. DOE

**Light Output (Lumens)** 299  
**Watts** 8.5  
**Lumens per Watt (Efficacy)** 35

**Color Accuracy**  
 Color Rendering Index (CRI) 66

**Light Color**  
 Correlated Color Temperature (CCT) 4022 (Bright White)

2700K 3000K Bright White 4500K Daylight 6500K

All results 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.

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Registration Number: GCXV-AXCRJ4  
 Model Number: NS-LED-e23-MFL-13  
 Type: Other