

STAFF STAR™ STYLE C

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example: **SF - 42 - C - LED - e27 - MFL - A3 - BZW - 13 - 11 - B - PP18B**

Series **SF** - Staff Star™ Pathlight

Stem Length **42** - 24", 30", 36", 42", 48", *54", *60", *66", or *72" (Specify in inches) *For use with Standard Anchor Base Only

Style **C** - Straight Mount

Source **LED** - 'e' Technology with Integral Dimming Driver (25W min. load when dimmed) Designed for use with remote 12VAC BKSSL® transformers. Requires magnetic Low Voltage dimmer.

LED Type
e36 - 8WLED/2.7K **e23** - 8WLED/4K
e22 - 8WLED/3K **e27** - 8WLED/Amber

Optics*
NSP - Narrow Spot (Red Indicator) **MFL** - Medium Flood (Yellow Indicator)
SP - Spot (Green 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			Premium Finish		
Powder Coat Color	Satin	Wrinkle	ABP Antique Brass Powder	CMG Cascade Mountain Granite	RMG Rocky Mountain Granite
Bronze	BZP	BZW	AMG Aleutian Mountain Granite	CRI Cracked Ice	SDS Sonoran Desert Sandstone
Black	BLP	BLW	AQW Antique White	CRM Cream	SMG Sierra Mountain Granite
White (Gloss)	WHP	WHW	BCM Black Chrome	HUG Hunter Green	TXF Textured Forest
Aluminum	SAP	—	BGE Beige	MDS Mojave Desert Sandstone	WCP Weathered Copper
Verde	—	VER	BPP Brown Patina Powder	NBP Natural Brass Powder	WIR Weathered Iron
			CAP Clear Anodized Powder	OCP Old Copper	<i>Also available in RAL Finishes See submittal SUB-1439-00</i>

Lens Type **12** - Soft Focus Lens **13** - Rectilinear Lens

Shielding **11** - Honeycomb Baffle

Cap Style
A - 45° **C** - Flush **E** - 45° less Weep Hole (Interior Use Only)
B - 90° **D** - 45° less Weep Hole (Interior Use Only) **F** - 90° cutoff with Flush Lens

- Options
- Blank** - Anchor Base (Standard, for use with remote transformer)
 - PP18B** - 18" Power Pipe™ stake with 'B' Cap (for use with remote transformer)**
 - PP-TRe20** - Power Pipe™ "T" option with 18" stake and TRe20 Electronic Transformer** (105-300 VAC, 50/60 Hz, Non-Dimming)
 - **For use with up to 48" maximum stem length
 - SF** - Stability Flange (for use with Power Pipe™)

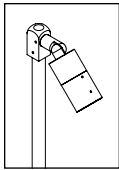
DRIVER DATA	Input Volts 12VAC/DC 50/60Hz	InRush Current <250mA MAX (non-dimmed)	Dimmable Magnetic Low Voltage Dimmer	Operation Ambient Temperature -10°F-130°F
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LM79 DATA				L70 DATA	
BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)	Minimum Rated Life (hrs.) 70% of initial lumens (L70)	
e36	2700K	8.4	90	50,000	
e22	3100K	8.4	90	50,000	
e23	4100K	8.4	75	50,000	
e27	Amber (590nm)	7.9	~	50,000	

*OPTICAL DATA			
Beam Type	Angle	e23 CBCP	Visual Indicator
Narrow Spot	14°	3594	Red Dot
Spot	18°	2456	Green Dot
Medium Flood	25°	1335	Yellow Dot
Wide Flood	36°	747	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 01-26-15	DRAWING NUMBER SUB001000
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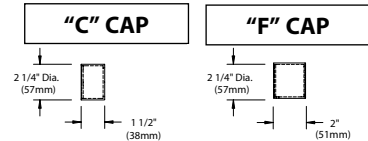
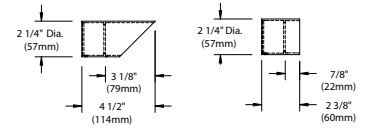
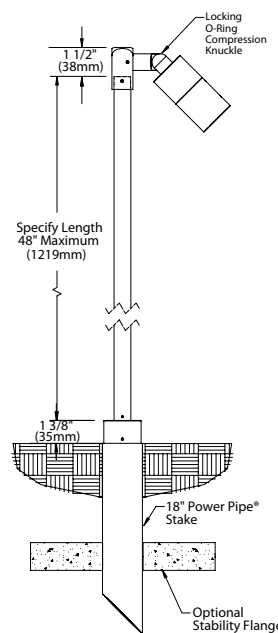
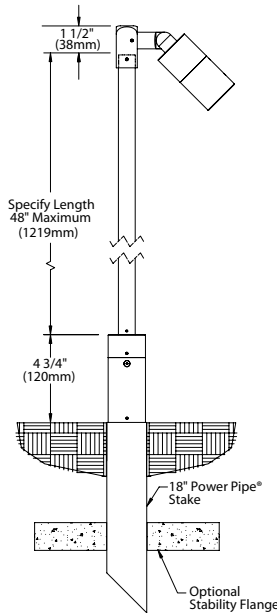
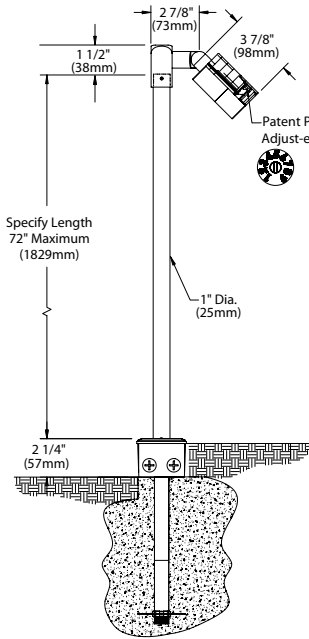
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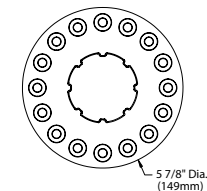
STAFF STAR™ STYLE C

PROJECT:	
TYPE:	

ANCHOR BASE	POWER PIPE 'T' (Mounting Option)	POWER PIPE™ (Mounting Option)	"A/D" CAP	"B/E" CAP
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STABILITY FLANGE (optional)



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

SPECIFICATIONS

GreenSource Initiative™

Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. 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 for program requirements.

Style

'C' Style provides straight profile with machined adapter for 90° transition from fixture to stem.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6).

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. Biaxial source control with 360° horizontal rotation in addition to vertical adjustment.

Cap

Fully machined. Accommodates [1] lens or louvers media. Choose from 45° cutoff ('A' or 'D'), 1° deep bezel with 90° cutoff ('B' or 'E'), flush lens ('C') cap styles, or 1° deep cutoff with flush mounted lens ('F'). Accommodates up to (2) lens or louvers media. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Stem

Fully machined, 1" dia. with internal threads for maximum visual appeal. Available in configurable lengths to 72" maximum overall (with Anchor Base) and 48" maximum overall (with Power Pipe™).

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, constant current driver. 12VAC/VDC input. 50/60Hz. Proprietary input control scheme achieves power factor correction and eliminates inrush current. Output, over-voltage, open-circuit, and short circuit protected. Inrush current limited to <250mA. Conforms to Safety Std. C22.2 No. 250.13-12.

Line dimmable. For use with low voltage dimmer with dedicated neutral conductor. Minimum 25 watt load required for dimming.

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 fixture 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 (WFL) = Blue.

Installation

Available for installation in three distinct mounting conditions:

Anchor Base (Standard)

Cast aluminum junction box with pass-through cover. 10" galvanized anchor stem for installation into soil or concrete. For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Power Pipe™ (Optional)

Provides a clean transition from wiring system to fixture. Schedule 80, 18" PVC housing for direct burial into soil or concrete. Machined 2-1/4" dia. cap for fixture mounting. Stainless steel hardware. Optional 6" diameter, molded stability flange, which simplifies installation and projects into substrate to reinforce housing stability. For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

Power Pipe™ with Transformer Housing (Optional)

Additionally features integral transformer housing fully machined from copper-free aluminum. High temperature, silicone 'O' Ring provides water-tight seal. Integral, Tre20 electronic transformer. 105-300VAC primary voltage. 50/60Hz. Non Dimming. 20VA maximum load.

Wiring

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

Hardware

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

Finish

StarGuard®, our exclusive RoHS compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating.

Warranty

5 year limited warranty.




Certification and Listing

ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standard 1838 and UL Subject 8750 and Certified to CAN/CSA Standard C22.2 No. 9. 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

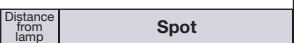

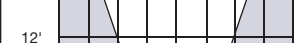


- RED**  **Narrow Spot (NSP)**
- GREEN**  **Spot (SP)**
- YELLOW**  **Medium Flood (MFL)**
- BLUE**  **Wide Flood (WFL)**

Set adjust-e-lume™ Dial to desired output


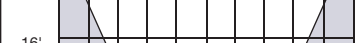
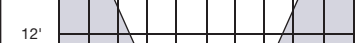
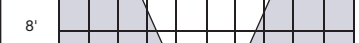



Distance from lamp	Narrow Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		2.4	3.1	5.0	6.3	7.6	8.9	9.2	9.3	9.3
16'		3.8	4.9	7.9	9.9	11.9	13.9	14.3	14.6	14.6
12'		6.7	8.6	14.0	17.6	21.2	24.7	25.5	25.9	25.9
8'		15.1	19.4	31.4	39.7	47.6	55.5	57.3	58.3	58.3
4'		60.4	77.7	125.8	158.6	190.4	222.1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


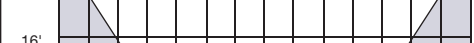
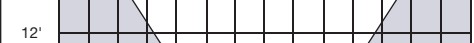


Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

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





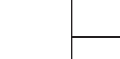


Distance from lamp	Narrow Spot	Adjust-e-Lume™ Setting								
		1	2	3	4	5	6	7	8	9
20'		2.4	2.9	4.9	6.1	7.3	8.8	9.1	9.3	9.3
16'		3.8	4.6	7.6	9.6	11.4	13.8	14.3	14.5	14.6
12'		6.7	8.2	13.5	17.0	20.3	24.5	25.4	25.7	25.9
8'		15.1	18.4	30.3	38.2	45.8	55.2	57.0	57.9	58.2
4'		60.3	73.6	121.3	152.8	183.1	220.9	228.2	231.6	232.8
	4' 2' 0' 2' 4'									





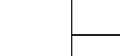
Note: If using No. 11 honeycomb baffle multiply footcandle values by .80

Distance from lamp	Spot	Adjust-e-Lume™ Setting								
		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





Distance from lamp	Medium Flood	Adjust-e-Lume™ Setting								
		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

Distance from lamp	Wide Flood	Adjust-e-Lume™ Setting								
		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

Staff Star™ - Narrow 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
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Light Color
Correlated Color Temperature (CCT)

2700K Warm White Bright White 4500K Daylight 6500K

4102 (Bright White)

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 for the Label Reference Guide.

Registration Number: GCXV-C535DL
Model Number: SF-LED-e23-NSP-12-C
Type: Outdoor path/step/rail light

Staff Star™ - 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
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Light Color
Correlated Color Temperature (CCT)

2700K Warm White Bright White 4500K Daylight 6500K

3981 (Bright White)

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 for the Label Reference Guide.

Registration Number: GCXV-4WBH4Y
Model Number: SF-LED-e23-WFL-12-C
Type: Outdoor path/step/rail light

Staff Star™ - 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
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Light Color
Correlated Color Temperature (CCT)

2700K Warm White Bright White 4500K Daylight 6500K

4080 (Bright White)

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 for the Label Reference Guide.

Registration Number: GCXV-4FTJW3
Model Number: SF-LED-e23-SP-12-C
Type: Outdoor path/step/rail light

Staff Star™ - Med. 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
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Light Color
Correlated Color Temperature (CCT)

2700K Warm White Bright White 4500K Daylight 6500K

4047 (Bright White)

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 for the Label Reference Guide.

Registration Number: GCXV-Z6GFTG
Model Number: SF-LED-e23-MFL-12-C
Type: Outdoor path/step/rail light

Staff Star™ - 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
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Light Color
Correlated Color Temperature (CCT)

2700K Warm White Bright White 4500K Daylight 6500K

3182 (Bright White)

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 for the Label Reference Guide.

Registration Number: GCXV-7GM4ZK
Model Number: SF-LED-e22-SP-12-C
Type: Outdoor path/step/rail light

Staff Star™ - Med. Flood - Recillinear

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
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Light Color
Correlated Color Temperature (CCT)

2700K Warm White Bright White 4500K Daylight 6500K

4022 (Bright White)

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 for the Label Reference Guide.

Registration Number: GCXV-DAPDHH
Model Number: SF-LED-e23-MFL-13-C
Type: Outdoor path/step/rail light

