

the power of

# MINI-MICRO™ STAFF STAR STYLE L

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

## CATALOG NUMBER LOGIC

**Example:** **SF** - **24** - **L** - **MM** - **LED** - **e15** - **SP** - **WHW** - **12** - **11** - **A**

**Series** **SF** - Staff Star™ Pathlight

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

**Style** **L** - 90° Radius

**Fixture** **MM** - Mini-Micro™

**Source** **LED** - 'e' Technology with Integral Driver  
Designed for use with remote 12VAC BKSSL® transformers.

**LED Type**  
**e38** - 3WLED/2.7K      **e11** - 3WLED/4K  
**e10** - 3WLED/3K      **e15** - 3WLED/Amber

**Optics** **SP** - Spot (Green Indicator)      **FL** - Flood (Blue Indicator)

**Finish**

Aluminum Finish			Premium Finish		
Powder Coat Color	Satin	Wrinkle	ABP	CMG	RMG
Bronze	<b>BZP</b>	<b>BZW</b>	<b>AMG</b> Aleutian Mountain Granite	<b>CRI</b> Cracked Ice	<b>SDS</b> Sonoran Desert Sandstone
Black	<b>BLP</b>	<b>BLW</b>	<b>AQW</b> Antique White	<b>CRM</b> Cream	<b>SMG</b> Sierra Mountain Granite
White (Gloss)	<b>WHP</b>	<b>WHW</b>	<b>BCM</b> Black Chrome	<b>HUG</b> Hunter Green	<b>TXF</b> Textured Forest
Aluminum	<b>SAP</b>	—	<b>BGE</b> Beige	<b>MDS</b> Mojave Desert Sandstone	<b>WCP</b> Weathered Copper
Verde	—	<b>VER</b>	<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	<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°      **B** - 90°      **C** - Flush      **D** - 45° less Weep Hole (Interior Use Only)      **E** - 90° less Weep Hole (Interior Use Only)

**Options**

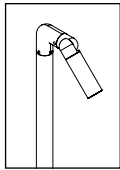
- Blank** - Anchor Base (Standard, for use with remote transformer)
- PP18B** - 18" Power Pipe™ stake with 'B' Cap (for use with remote transformer)
- PP-TRe20** - Power Pipe™ "T" option with 18" stake and TRe20 Electronic Transformer\*\* (105-300 VAC, 50/60 Hz, Non-Dimming)  
\*\*For use with up to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

DRIVER DATA	Input Volts	InRush Current	Operation Ambient Temperature
	12VAC/DC 50/60Hz	10A Max	-10°F-130°F

LM79 DATA				L70 DATA		*OPTICAL DATA			
BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI	Minimum Rated Life (hrs.) 70% of initial lumens (L70)		Beam Type	Angle	CBCP	Visual Indicator
e38	2700K	3.0	90	50,000		Spot	16°	780	Green Dot
e10	3100K	3.0	90	50,000		Flood	33°	297	Blue Dot
e11	4100K	3.0	75	50,000					
e15	Amber (590nm)	2.8	~	50,000					

<b>B-K LIGHTING</b>	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 www.bklighting.com • info@bklighting.com	SUBMITTAL DATE	DRAWING NUMBER
		01-16-15	SUB000978

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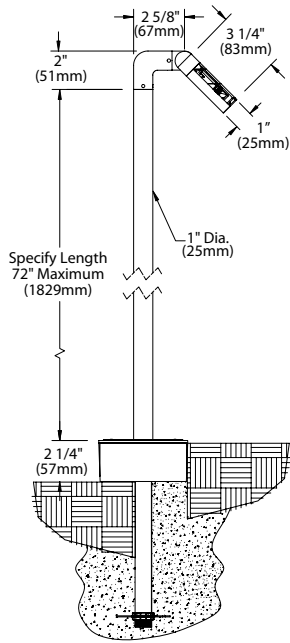


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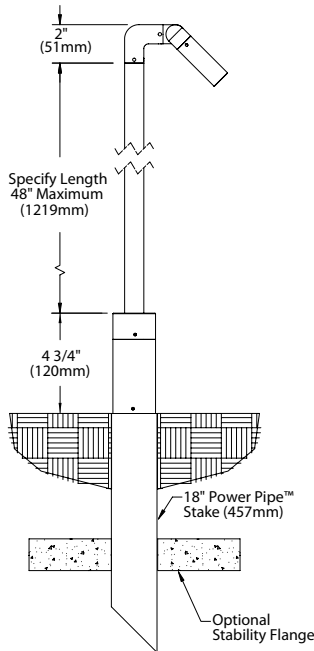
# MINI-MICRO™ STAFF STAR STYLE L

PROJECT:	
TYPE:	

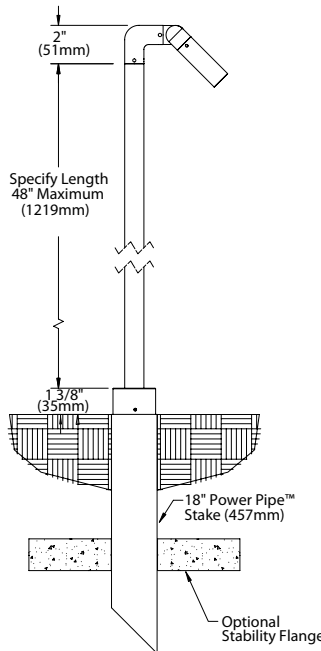
## ANCHOR BASE



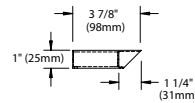
## POWER PIPE 'T' (Mounting Option)



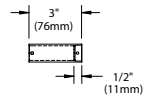
## POWER PIPE™ (Mounting Option)



## "A/D" CAP



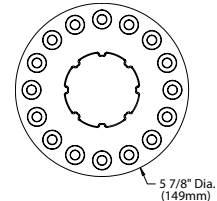
## "B/E" CAP



## "C" CAP



## 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](http://www.bklighting.com/greensource) for program requirements.

### Style

'L' Style provides clean, 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 louver media. Choose from 45° cutoff ('A' or 'D'), 3/8" deep bezel with 90° cutoff ('B' or 'E'), or flush lens ('C') cap styles. '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. 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.


### Optics

OPTIKIT™ modules are color-coded for easy reference: Spot (SP) = Green. Flood (FL) = 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  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  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

PVC coated, 18AWG, 150V, 60°C rated and certified to UL 1838 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](http://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.



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

<b>B-K LIGHTING</b>	40429 Brickyard Drive • Madera, CA 93636 • USA 559.438.5800 • FAX 559.438.5900 <a href="http://www.bklighting.com">www.bklighting.com</a> • <a href="mailto:info@bklighting.com">info@bklighting.com</a>	SUBMITTAL DATE	DRAWING NUMBER
		01-16-15	SUB000978

Mini Micro™ Path Light - Flood



# lighting facts®

A Program of the U.S. DOE


Light Output (Lumens)	111
Watts	2.96
Lumens per Watt (Efficacy)	37

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Color Accuracy	68
Color Rendering Index (CRI)	

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**Light Color**  
Correlated Color Temperature (CCT) **4090 (Bright White)**



2700K    3000K    4500K    6500K


Warm White    Bright White    Daylight

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-N27GMV (3/19/2012)  
 Model Number: SF-MM-LED-e11-FL-12-C  
 Type: Outdoor path/step/rail light

Mini Micro™ Path Light - Spot Rectilinear



# lighting facts®

A Program of the U.S. DOE


Light Output (Lumens)	98
Watts	3.01
Lumens per Watt (Efficacy)	32

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Color Accuracy	69
Color Rendering Index (CRI)	

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**Light Color**  
Correlated Color Temperature (CCT) **4169 (Bright White)**



2700K    3000K    4500K    6500K


Warm White    Bright White    Daylight

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-MPMRRL (3/19/2012)  
 Model Number: SF-MM-LED-e11-SP-13-C  
 Type: Outdoor path/step/rail light

Mini Micro™ Path Light - Spot



# lighting facts®

A Program of the U.S. DOE


Light Output (Lumens)	109
Watts	3.01
Lumens per Watt (Efficacy)	36

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Color Accuracy	69
Color Rendering Index (CRI)	

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**Light Color**  
Correlated Color Temperature (CCT) **4180 (Bright White)**



2700K    3000K    4500K    6500K

Warm White    Bright White    Daylight

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-WLP3RY (3/19/2012)  
 Model Number: SF-MM-LED-e11-SP-12-C  
 Type: Outdoor path/step/rail light