the power of e

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

Example: TF - 24 - C - MM - LED - e11 - SP - VER - 12 - 11 - A -

[TF] [24] [C] [MM] [LED] [ ] [SP] [VER] [ ] [ ] [A] [ ]

Series
   TF - Twin 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
   C - Straight Mount

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**	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	*Also available in RAL Finishes* *See submittal SUB-1439-00*	

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

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI
e38	2700K	3.0	90
e10	3100K	3.0	90
e11	4100K	3.0	75
e15	Amber (590nm)	2.8	~

L70 DATA

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

*OPTICAL DATA

Beam Type	Angle	CBCP	Visual Indicator
Spot	16°	780	Green Dot
Flood	33°	297	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	DRAWING NUMBER
01-16-15	SUB000995
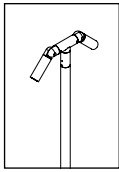
PROJECT:

TYPE:

ANCHOR BASE

4 1/8" (105mm)
3 1/4" (86mm)
3 1/8" (79mm)
1" (25mm)

Specify Length 72" Maximum (1829mm)

1" Dia. (25mm)

2 1/4" (57mm)

Available up to 72" Overall Heights (Remote Transformer)
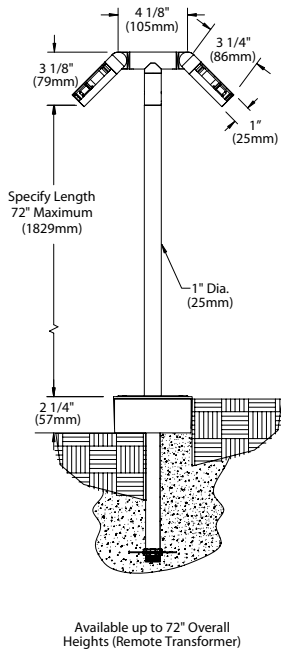
POWER PIPE 'T' (Mounting Option)

3 1/8" (79mm)

Specify Length 48" Maximum (1219mm)

4 3/4" (120mm)

18" Power Pipe™ Stake (457mm)

Optional Stability Flange

Available up to 48" Overall Heights (Integral Transformer)
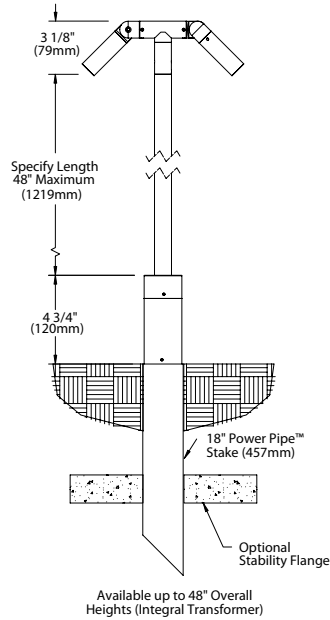
POWER PIPE™ (Mounting Option)

3 1/8" (79mm)

Specify Length 48" Maximum (1219mm)

1 3/8" (35mm)

18" Power Pipe™ Stake (457mm)

Optional Stability Flange

Available up to 48" Overall Heights (RemoteTransformer)

"A/D" CAP

3 7/8" (98mm)
1" (25mm)
1 1/4" (31mm)

"B/E" CAP

3" (76mm)
1/2" (11mm)

"C" CAP

2 3/4" (70mm)
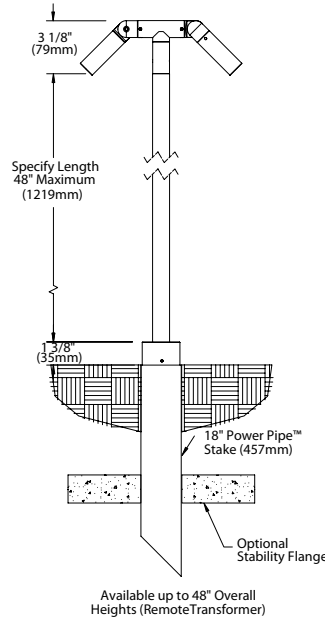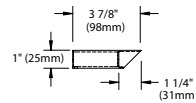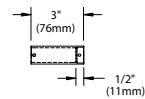
STABILITY FLANGE (optional)

5 7/8" Dia. (149mm)

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. Machined 'T' adapter enables independent fixture adjustment from a single mounting position.

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.

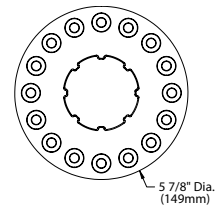Integral non-dimming driver. Minimum 50,000 hour rated life at 70% of initial lumens (L70). BKSSL technology provides long life, significant energy reduction and exceptional thermal management.

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 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
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). 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.

ETL Intertek   MADE IN THE USA   RoHS   lighting facts

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

B-K LIGHTING

SUBMITTAL DATE	DRAWING NUMBER
01-16-15	SUB000995

Label 1 — Flood

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

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

Color Accuracy
Color Rendering Index (CRI) — 68

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

Warm White | Bright White | Daylight
2700K | 3000K | 4500K | 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 for the *Label Reference Guide.*

Registration Number: GCXV-N4NFRH (3/19/2012)
Model Number: TF-MM-LED-e11-FL-12-C
Type: Outdoor path/step/rail light

Label 2 — Spot Rectilinear

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

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

Color Accuracy
Color Rendering Index (CRI) — 69

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

Warm White | Bright White | Daylight
2700K | 3000K | 4500K | 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 for the *Label Reference Guide.*

Registration Number: GCXV-K16R2A (3/19/2012)
Model Number: TF-MM-LED-e11-SP-13-C
Type: Outdoor path/step/rail light

Label 3 — Spot

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

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

Color Accuracy
Color Rendering Index (CRI) — 69

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

Warm White | Bright White | Daylight
2700K | 3000K | 4500K | 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 for the *Label Reference Guide.*

Registration Number: GCXV-MRES81 (3/19/2012)
Model Number: TF-MM-LED-e11-SP-12-C
Type: Outdoor path/step/rail light