

the power of



# TWIN SIGN STAR™ STYLE C

MICRO NITE™

PROJECT:

TYPE:

CATALOG  
NUMBER:

SOURCE:

NOTES:

## CATALOG NUMBER LOGIC

**Example:** **ST** - **24** - **C** - **MN** - **LED** - **e69** - **FL** - **BLW** - **12** - **11** - **A**

Series **ST** - Twin Sign Star™

Stem Length **24** - 18", 24", 30", 36", 42", or 48" (Specify in inches)

Style **C** - Straight Mount

Fixture **MN** - Micro Nite Star™

Source **LED** - 'e' Technology with Integral Dimming Driver (See Specifications for Dimming)  
Designed for use with remote 12VAC BKSSL® transformers. Requires magnetic Low Voltage dimmer.

LED Type **e67** - 7WLED/2.7K **e69** - 7WLED/4K  
**e68** - 7WLED/3K **e75** - 7WLED/Amber

Optics\* **SP** - Spot (Green Indicator)  
**NFL** - Narrow Flood (Yellow Indicator)  
**FL** - Flood (Blue Indicator)

Finish **Aluminum Finish** **Premium 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>

ABP	Antique Brass Powder	CMG	Cascade Mountain Granite	RMG	Rocky Mountain Granite
AMG	Aleutian Mountain Granite	CRI	Cracked Ice	SDS	Sonoran Desert Sandstone
AQW	Antique White	CRM	Cream	SMG	Sierra Mountain Granite
BCM	Black Chrome	HUG	Hunter Green	TXF	Textured Forest
BGE	Beige	MDS	Mojave Desert Sandstone	WCP	Weathered Copper
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)

### DRIVER DATA

Input Volts

12VAC/DC 50/60Hz

InRush Current

250mA Max. (non-dimmed)

Dimmable

Magnetic Low Voltage Dimmer

Operation Ambient Temperature

-22°F-194°F (-30°C - 90°C)

### LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e67	2700K	7	80
e68	3000K	7	80
e69	4000K	7	80
e75	Amber (590nm)	7	~

### L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> )
50,000
50,000
50,000
50,000

### \*OPTICAL DATA

Beam Type	Angle	CBCP	Visual Indicator
Spot	20°	3991	Green Dot
Narrow Flood	25°	1877	Yellow Dot
Flood	30°	1469	Blue Dot

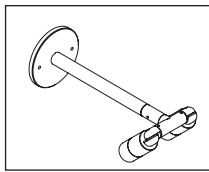
# B-K LIGHTING

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

RELEASED  
06-13-16

DRAWING NUMBER  
SUB-2223-00

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**BKSSL**  
SOLID STATE LIGHTING

the power of

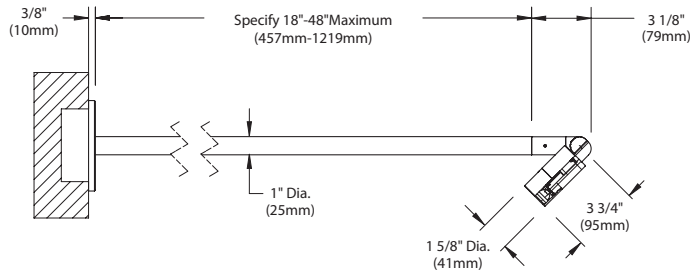


# MICRO NITE™ TWIN SIGN STAR™ STYLE C

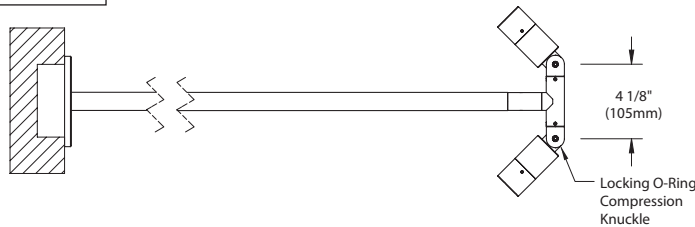
PROJECT:

TYPE:

## SIDE VIEW



## TOP VIEW



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.

### Materials

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

### Style

'C' Style provides straight profile. Machined 'T' adapter enables independent fixture adjustment from a single mounting position.

### 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'), 3/4" 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 48" maximum overall.

### 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®

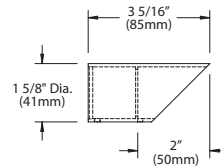
Integrated solid state system with 'e' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance. High power, forward throw source complies with ANSI C78.377 binning requirements. Exceeds ENERGY STAR® lumen maintenance requirements. LM-80 certified 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 (non-dimmed). Conforms to Safety Std. C22.2 No. 250.13-12.

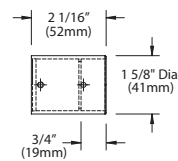
### Dimming

Line voltage dimmable via magnetic low voltage dimmer. For use with low voltage dimmer with dedicated neutral conductor. For purposes of dimming: Remote magnetic transformer with BKSSL® Power of 'e' technology loads should be loaded to 25% of the transformer VA (watts) rated value.

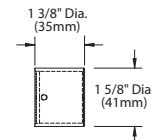
## "A/D" CAP



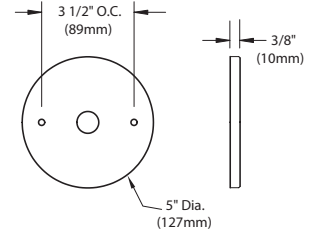
## "B/E" CAP



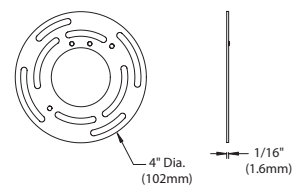
## "C" CAP



## CANOPY DETAIL



## UNIVERSAL RING



## Accessories (Configure separately)

### Remote Transformers:



TR Series



UPMRM™

### Optics

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

### Installation

5" dia., machined canopy permits mounting to 4" octagonal junction box. Junction box installation must be designed to hold full fulcrum weight of fixture (junction box and gasket by others).

### Remote Transformer

For use with 12VAC BKSSL remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.

### Wiring

PVC coated, 18AWG, 150V, 60°C rated and certified to UL 1838 standard.

### Hardware

Tamper-resistant, stainless steel hardware. LOCK™ aiming screw and canopy mounting screws are 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. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHS compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP 66 Rated. Made in USA.



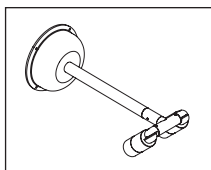
\*Energy Star is a registered trademark of the United States Environmental Protection Agency.

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# MICRO NITE™ TWIN SIGN STAR™ STYLE C with Power Canopy™

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

## CATALOG NUMBER LOGIC

	<b>ST</b>			<b>C</b>		<b>MN</b>		<b>LED</b>									<b>PC</b>																																																																		
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Transformer Style	PC - Power Canopy with TRe20 Electronic Transformer* *105-300 VAC, 50/60 Hz, Non-Dimming																																																																																		

## DRIVER DATA

Input Volts	InRush Current	Operation Ambient Temperature
12VAC/DC 50/60Hz	250mA Max. (non-dimmed)	-22°F-194°F (-30°C - 90°C)

## LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e67	2700K	7	80
e68	3000K	7	80
e69	4000K	7	80
e75	Amber (590nm)	7	~

## L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> )
50,000
50,000
50,000
50,000

## \*OPTICAL DATA

Beam Type	Angle	CBCP	Visual Indicator
Spot	20°	3991	Green Dot
Narrow Flood	25°	1877	Yellow Dot
Flood	30°	1469	Blue Dot

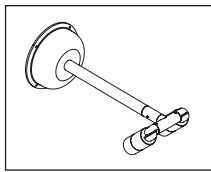
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RELEASED  
01-28-16

DRAWING NUMBER  
SUB-2224-00

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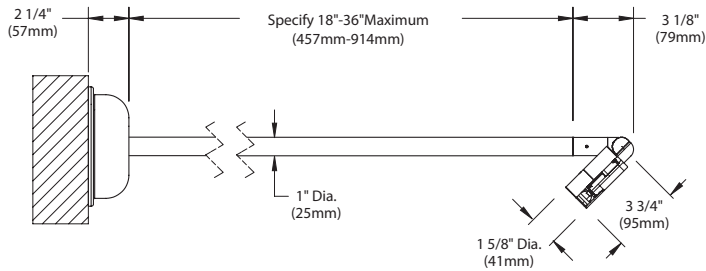
the power of 

# MICRO NITE™ TWIN SIGN STAR™ STYLE C with Power Canopy™

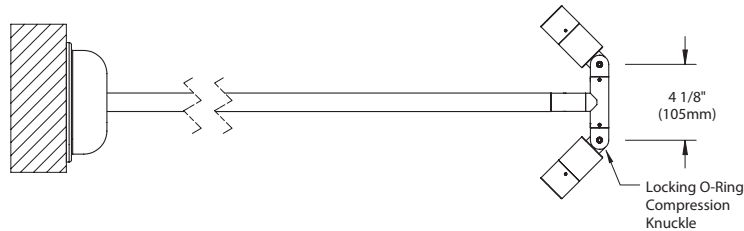
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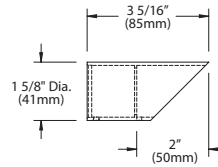
## SIDE VIEW



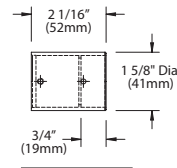
## TOP VIEW



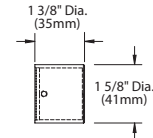
## "A/D" CAP



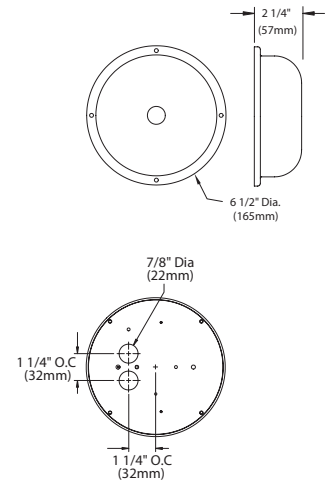
## "B/E" CAP



## "C" CAP



## POWER CANOPY DETAIL



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.

### Materials

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

### Style

'C' Style provides straight profile. Machined 'T' adapter enables independent fixture adjustment from a single mounting position.

### 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'), 3/4" 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 36" maximum overall.

### 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.

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 (non-dimmed). Conforms to Safety Std. C22.2 No. 250.13-12.

### Optics

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

### Installation

6-1/2" dia. Power Canopy™ features gasketed mounting plate for surface or junction box installation with two 1/2" KO's for wiring (hardware by others). Junction box installation must be designed to hold full fulcrum weight of fixture.

### Transformer

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 and canopy mounting screws are 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. UL Listed. Certified to CAN/CSA/ANSI Standards. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP 66 Rated. Made in USA.



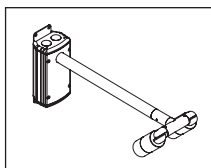
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RELEASED  
01-28-16

DRAWING NUMBER  
SUB-2224-00



the power of 

# TWIN SIGN STAR™ STYLE C with PM1

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

## CATALOG NUMBER LOGIC

ST		C	MN	LED								PM1		
----	--	---	----	-----	--	--	--	--	--	--	--	-----	--	--

Example: ST - 18 - C - MN - LED - e68 - NFL - BZP - 12 - 11 - B - PM1 - SM -

Series ST - Twin Sign Star™

Stem Length 18  
18", 24", 30", 36", 42", or 48"  
(Specify in inches)

Style C - Straight Mount

Fixture MN - Micro Nite Star™

Source LED - 'e' Technology with Integral Driver

LED Type e67 - 7WLED/2.7K      e69 - 7WLED/4K  
e68 - 7WLED/3K      e75 - 7WLED/Amber

Optics\* SP - Spot (Green Indicator)      NFL - Narrow Flood (Yellow 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)

Transformer Style PM1 - Universal Power Module™ with TRe20 Electronic Transformer (105-300 VAC, 50/60 Hz, Non-Dimming)

Mounting SM - Surface Mount      CR - Round Camlock™      CT - Rectangular Camlock™

Options MB - Mounting Brackets (for CR and CT only)

DRIVER DATA	Input Volts	InRush Current	Operation Ambient Temperature
	12VAC/DC 50/60Hz	250mA Max. (non-dimmed)	-22°F-194°F (-30°C - 90°C)

## LM79 DATA

BK No.	CCT (Typ.)	Input Watts (Typ.)	CRI (Typ.)
e67	2700K	7	80
e68	3000K	7	80
e69	4000K	7	80
e75	Amber (590nm)	7	~

## L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L <sub>70</sub> )
50,000
50,000
50,000
50,000

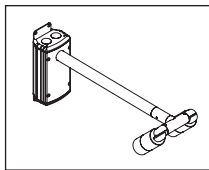
## \*OPTICAL DATA

Beam Type	Angle	CBCP	Visual Indicator
Spot	20°	3991	Green Dot
Narrow Flood	25°	1877	Yellow Dot
Flood	30°	1469	Blue Dot

<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	RELEASED 01-28-16	DRAWING NUMBER SUB-2225-00
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# MICRO NITE™ TWIN SIGN STAR™ STYLE C with PM1



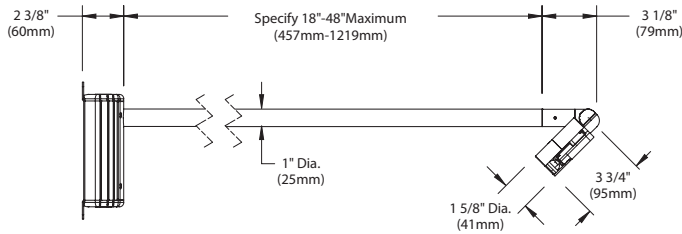
the power of 

**BKSL**  
SOLID STATE LIGHTING

PROJECT:

TYPE:

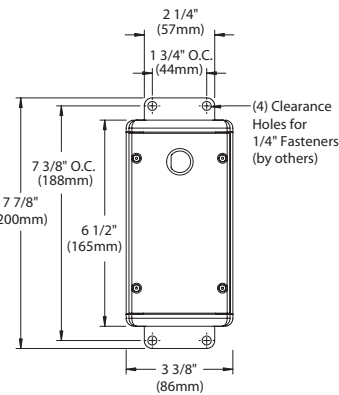
## SIDE VIEW



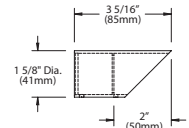
## TOP VIEW



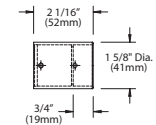
## SURFACE MOUNT WITH BRACKETS



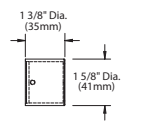
## "A/D" CAP



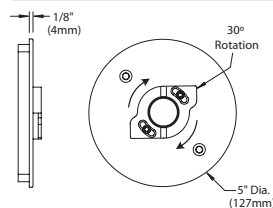
## "B/E" CAP



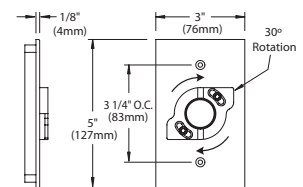
## "C" CAP



## ROUND CAMLOCK™ CANOPY



## RECTANGULAR CAMLOCK™ CANOPY



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 BkLighting 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).

### Style

'C' Style provides straight profile. Machined 'T' adapter enables independent fixture adjustment from a single mounting position.

### Body

Fully machined from solid billet. Unibody design provides enclosed, water-proof wiring 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'), 3/4" 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 48" maximum overall.

### 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 (non-dimmed). Conforms to Safety Std. C22.2 No. 250.13-12.

### Optics

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

### Installation

Universal Power Module™ (PM1) features aluminum extrusion with die cast end caps. Surface mounted with flow through back channel to prevent water and debris collection. Machined aluminum cover with countersunk holes for flush hardware installation. Front access for ease of installation and inspection. [2] 1/2" NPT female conduit entries per end cap for through wiring. Specify Surface Mount (SM), Round Camlock™ Canopy (CR) or Rectangular Camlock™ Canopy (CT).

### Transformer

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 and canopy mounting screws are 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

SignStar™: UL Listed. Certified to CAN/CSA/ANSI Standards. IP66 Rated. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations.

PM1™: NEMA 4X / IP-66 Rated Enclosure. UL Listed. Certified to CAN/CSA/ANSI Standards.

RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. IP 66 Rated. Made in USA.



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

**B-K LIGHTING**

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RELEASED  
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DRAWING NUMBER  
SUB-2225-00