

ARCEOS™ ARS SERIES

SURFACE/CEILING/GARAGE

| | |
|-------|------|
| Cat.# | |
| Job | Type |



Approvals

SPECIFICATIONS

Intended Use:

Ceiling applications from eight to eighteen feet for surface, box or pendant mount. Applications include parking garage, walkway or building canopies, corridors, tunnels, large stairwells and other interior applications with ambient 40°C. A wide range of lumen packages and optical distributions are available making the ARS Series luminaire both versatile and functional.

Construction:

- Die cast aluminum housing features vertical fins for two directional air flow that maximizes heat dissipation and ensures long electrical component life and luminaire performance
- LED light engines and electrical compartment are thermally isolated with an air gap for optimum component performance and long life
- One piece molded silicone gasket ensures weather proof seal around each individual LED; Stamped stainless steel bezel provides mechanical compression to seal the optical assembly; 18L and and 24L luminaires include finish (color) matching blanking bezel
- IP65 luminaire rating
- Vandal resistant polycarbonate and low brightness acrylic shield accessories available

LED/Optics:

- Light engine is hexagonal LED module containing 6 high output LEDs with PMMA acrylic lenses that create precise photometric performance
- Choice of multiple light outputs based on quantity of hexagonal LED arrays: 3 = 18 LEDs, 4 = 24 LEDs or 6 = 36 LEDs hexagonal LED modules, lumen range 4,000-8,600
- Three distribution types: Type V Square (5M), Type V Rectangular (5R) or Type IV (4)
- Type V Rectangular (5R) lenses provides low brightness "drive aisle optics" solution for low mounting height applications when the lens is oriented perpendicular to the flow of traffic
- Variety of color temperatures offered: 3000K (80CRI), 4000K (70CRI) or 5000K (70 CRI) CCT

- Each hexagonal light engine comes with a connector for easy replacement

Electrical:

- 120V-277V 50/60Hz, 54.4W, 57W or 86W 700mA configurations
- Drivers RoHS compliant and IP66
- 0-10V dimming drivers
- Lumens per watt > 92-102
- Designed and certified for 40°C ambient temperatures
- Thermal management protection device shuts driver/LED systems off when temperatures are too high
- Operating temperature range -30°C/-22°F – 40°C/104°F
- Surge protection – 20KA; Turns fixture off at end of life; Includes LED for end of life indication (see surge suppressor page 3)

Controls/Options:

- Occupancy Sensors, photocells controls available for on/off or dimming operation
- wiSCAPE in fixture wireless control module, features dimming, switching motion sensor
- Up light option available in 24L and 36L configurations

Installation:

Quick disconnect plate mounts over standard junction box and allows for simplified fixture installation. A 3/4" hub provides pendant stem mounting making the fixture adaptable to a variety of applications. Each mounting can be accomplished while maintaining a watertight seal. Four 1/2" conduit hubs allow side access as required. A pattern indicator on the mounting plate allows the installer to properly orient the fixture without energizing the light engines.

Listings:

Listed to UL 1598 for use in wet locations, 40° C ambient environments; Meets DesignLights Consortium (DLC) qualifications 4K & 5K models only, Consult DLC website for more details: <http://www.designlights.org/QPL>; IP65

Warranty:

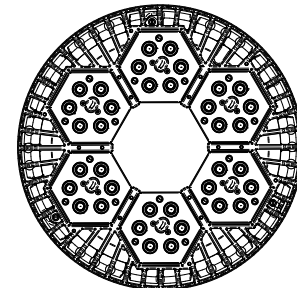
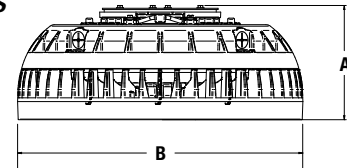
Five year limited warranty (for more information visit: <http://www.hubbellingighting.com/resources/warranty/>)

PRODUCT IMAGE(S)



Shown with motion control option

DIMENSIONS



| A | B | Weight: |
|-------------|------------|---------|
| 5.68" | 14.00" | 18 lbs |
| (144.22 mm) | (355.6 mm) | 8.16 kg |

CERTIFICATIONS/LISTINGS



ORDERING INFORMATION ORDERING EXAMPLE: ARS-36L5K-070-5M-1-DB-PC

ARS - [] - [] - [] - [] - [] - [] - []

| SERIES | NUMBER OF LEDS | LED COLOR | DRIVE CURRENT | IES DISTRIBUTION | VOLTAGE ² | FINISH | OPTIONS |
|--|----------------|-----------|---------------|---------------------|----------------------|------------------------------------|--|
| ARS Arceos™ surface/ceiling/garage luminaire | 18L 18 LEDs | 3K 3000K | 070 700mA | 5M Type V Square | U 120V-277V | DB Bronze | PC ² Photocontrol (voltage specified and determined by voltage field) |
| | 24L 24 LEDs | 4K 4000K | 083' 833mA | 5R Type V Rectangle | 1 120V | BL Black | F ² Fusing (voltage specified and determined by voltage field) |
| | 36L 36 LEDs | 5K 5000K | | 5W Type V Wide | 2 208V | WH White | UD Up light option, available in 24L and 36L only (see page 3) |
| | | | | 4 Type IV | 3 240V | PS Platinum Silver | WIR wiSCAPE, in-fixture wireless control module |
| | | | | | 4 277V | GR Gray | |
| | | | | | | FG Forest Green (premium color) | |
| | | | | | | RD Red (premium color) | |
| | | | | | | CC Custom Colors (Consult factory) | |

ACCESSORIES - Order separately

MOTION CONTROL OPTIONS

SCP^{2,3,5} High/low control - for up to 20' mounting heights user programmable settings; Factory default is 10%

SCPW^{2,3,5} High/low control - wide lens for up to 8' mounting heights

¹ 833 only available in 18L drive current
² Specify voltage for voltage specific options (only 120V-277V available for Fusing)
³ 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings; Must order minimum of one SCP-REMOTE to program dimming settings
⁴ One per LED module e.g. 3 – 18L, 4 – 24L, and 6 – 36L luminaires (see page 3)
⁵ PC option not applicable, included in sensor. For SCP, PC function turns on to lower setting until motion is detected

See page 2 and 3 for Accessories.



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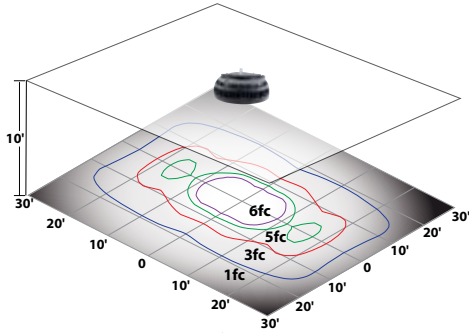
ACCESSORIES/REPLACEMENT PARTS - Order Separately

| Catalog Number | Description |
|-------------------------|--|
| ARS-SPC ⁴ | Vandal shield (1 per LED module) |
| ARS-BS-XX [*] | Bird shield |
| ARS-CS ⁴ | Comfort shield - Reduces source brightness and imaging P95 acrylic with nominal 10% lumen reduction (1 per LED module) |
| SCP-REMOTE ³ | Remote control for SCP option; order at least on per project to program and control |
| 93052458 | 20KA surge protection with an end of life LED indicator |

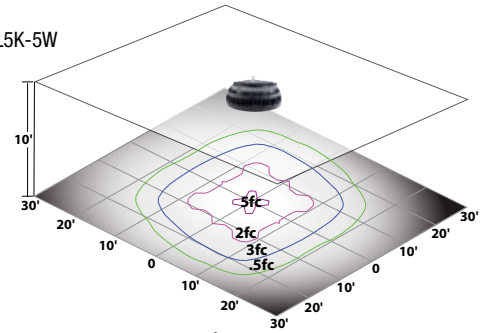
^{*}XX = Color Options: DB, BL, WH, PS and GR

PHOTOMETRICS

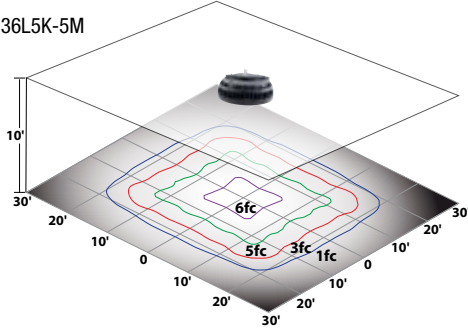
Type V Rectangle
Drive Aisle Optic
ARS-36L5K-5R



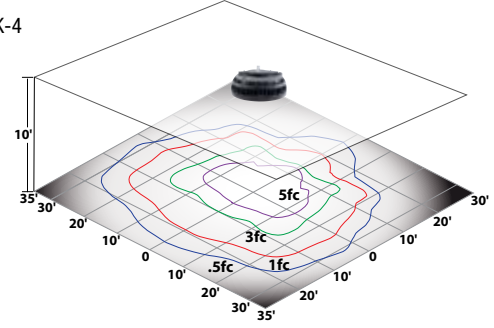
Type V Wide – ARS-36L5K-5W



Type V Square – ARS-36L5K-5M



Type IV – ARS-36L5K-4



PERFORMANCE DATA

| # LED'S | DRIVE CURRENT (MILLIAMPS) | SYSTEM WATTS | DISTRIBUTION TYPE | 5K (5000K nominal, 67 CRI) | | | | | 4K (4000K nominal, 70 CRI) | | | | |
|---------|---------------------------|--------------|-------------------|----------------------------|------------------|---|---|---|----------------------------|------------------|---|---|---|
| | | | | LUMENS | LPW ¹ | B | U | G | LUMENS | LPW ¹ | B | U | G |
| 18 | (833 MA) | 54.4W | 4 | 4300 | 79 | 1 | 0 | 2 | 4,083 | 75 | 1 | 0 | 2 |
| | | | 5M | 4425 | 81 | 1 | 0 | 2 | 4,208 | 77 | 1 | 0 | 2 |
| | | | 5R | 4725 | 87 | 1 | 0 | 2 | 4,508 | 83 | 1 | 0 | 2 |
| 24 | STD. (700 MA) | 57W | 4 | 5360 | 94 | 1 | 0 | 2 | 4986 | 87 | 1 | 0 | 2 |
| | | | 5M | 5485 | 96 | 2 | 0 | 1 | 5012 | 88 | 2 | 0 | 1 |
| | | | 5R | 5800 | 102 | 3 | 0 | 3 | 5375 | 94 | | | |
| 36 | | 86W | 4 | 7966 | 93 | 1 | 0 | 2 | 7522 | 87 | 1 | 0 | 2 |
| | | | 5M | 8203 | 95 | 3 | 0 | 1 | 7439 | 87 | 3 | 0 | 1 |
| | | | 5R | 8604 | 100 | 3 | 0 | 3 | 8030 | 93 | | | |

¹Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

PROJECTED LUMEN MAINTENANCE

| AMBIENT TEMP. | 0 | 25,000 | 50,000 | ¹ TM-21-11 60,000 | 100,000 | Calculated L70 (HOURS) |
|---------------|------|--------|--------|------------------------------|---------|------------------------|
| 10°C / 50°F | 1.01 | 1.00 | 0.99 | 0.99 | 0.97 | >1,085,000 |
| 25°C / 77°F | 1.00 | 0.99 | 0.98 | 0.98 | 0.96 | >1,085,000 |
| 40°C / 104°F | 0.97 | 0.96 | 0.96 | 0.95 | 0.94 | >782,000 |

¹ Projected per IESNA TM-21-11 Data references the extrapolated performance projections for the ARS-36LU-5K base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

ELECTRICAL DATA

| # OF LEDS | NUMBER OF DRIVERS | DRIVE CURRENT (mA) | INPUT VOLTAGE (V) | SYSTEM POWER (w) | CURRENT (Amps) |
|-----------|-------------------|--------------------|-------------------|------------------|----------------|
| 18 | 1 | (833 MA) | 120 | 54.5 | 0.50 |
| | | | 277 | 56.8 | 0.22 |
| 24 | 2 | STD. (700 MA) | 120 | 57 | 0.48 |
| | | | 277 | 59 | 0.24 |
| 36 | 3 | (700 MA) | 120 | 86 | 0.73 |
| | | | 277 | 89 | 0.35 |

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

| AMBIENT TEMPERATURE | LUMEN MULTIPLIER |
|---------------------|------------------|
| 0° C | 1.02 |
| 10° C | 1.01 |
| 20° C | 1.00 |
| 25° C | 1.00 |
| 30° C | 1.00 |
| 40° C | 0.99 |

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).



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VERSATILE CONFIGURATIONS



ARS-18LU



ARS-24LU



ARS-36LU

MOUNTING OPTIONS & ACCESSORIES



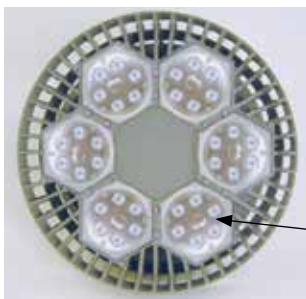
Specially designed internal hook and hinge allows easy access to wiring and internal components for easy installation



Pendant mount with 3/4" wiring hub; Bird shield accessory available; J-Box mounting slots and wire way accommodate 3 1/2" and 4" J-Box designs

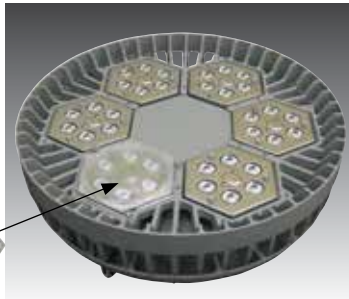


Four - 1/2" wiring hubs for surface conduit wiring and photocell option



ARS-SPC - Clear vandal shield installs over each hexagonal LED bezel with 3 provided screws, specify quantity when ordering:

- 3 for 18L
- 4 for 24L
- 6 for 36L



ARS-CS - Frosted comfort shield installs over each hexagonal LED bezel with 3 provided screws, improved uniformity and reduced LED brightness, specify quantity when ordering:

- 3 for 18L
- 4 for 24L
- 6 for 36L



Up light option provides ambient light reducing the "cave effect" in parking garage applications (available in 24L and 36L only)

SURGE PROTECTION

- Field replaceable surge protection device (SPD) provides 20KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3
- The SPD is designed with a clamping voltage of 1600V at 20KA using industry standard 8/20µs waveform
- Max surge current = 20,000 Amps (see table)
- LED Indicator – Green LED is unlit at end of life

| Pulse Rating (8 x 20 µSec) | |
|-------------------------------|----------|
| Strikes | Surge |
| 1 | 20,000 A |
| 2 | 15,000 A |
| 15 | 10,000 A |
| 120 | 3,000 A |

| | cRUus | CE |
|----------------|-------|-----|
| I _n | 10KA | 5KA |

CIMARRON LED CL1S

Cat.#

Job

Type



Approvals

SPECIFICATIONS

Construction:

- Stylish vertically finned die-cast solid top housing for maximum heat dissipation; Stops collection of unsightly debris
- Rugged lower die-cast aluminum heat sink optimizes thermal management and optical performance
- One piece die-cut silicone gasket with mechanically compressed stainless steel bezel ensures weather proof seal around each individual LED for IP65 rating
- Backlight Control (BC) option available for 85% spill light reduction, doesn't change fixture appearance or EPA, recommended for Type III and Type IV distributions
- Complements the Cimarron LED CL1 i
- Weight - 19 pounds, EPA - .45 ft²

Optics:

- Choice of 126 high brightness LED configurations with individual acrylic lenses specially designed for IES Type II, III, IV and V distributions
- 3000K, 80 CRI; 4000K, 70 CRI; 5000K, 67 CRI, Turtle friendly Amber

Electrical:

- Universal input voltage 120-277 VAC, 50/60 Hz
- Ambient operating temperature -40° C to 40° C
- Drivers have greater than 90% power factor and less than 10% THD
- 700mA drive current standard, 350mA and 525mA options available with 32L and 48L LED models
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Surge protection – 20KA; Turns fixture off at end of life; Includes LED for end of life indication (see surge suppressor page 3)
- Optional 0-10VDC continuous dimming to 10%
- Automatic thermal self-protection
- LED electrical assembly, including PR devices, consumes no power in the 'off' state

Controls:

- Drivers are 0-10V dimming standard. Photocell and occupancy sensors available for complete on/off and dimming control

Installation:

- Quick-mount plate included for easy installation
- The decorative integral arm houses two stage hinge mechanism
- Safety latch holds luminaire door to prevent "free swing"
- Quick-connect wiring for simplified, hassle-free installation
- Suitable for applications requiring 3G testing prescribed by ANSI @136.31

Finish:

- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

Warranty:

Five year limited warranty, for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>

Listings:

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
- 700mA models meet DesignLights Consortium (DLC) qualifications, consult DLC website for more details: <http://www.designlights.org/QPL>
- IDA approved
- IP66
- IES Progress Award Winner - 2013

PRODUCT IMAGE(S)



48 LED 3/4 VIEW



16 LED

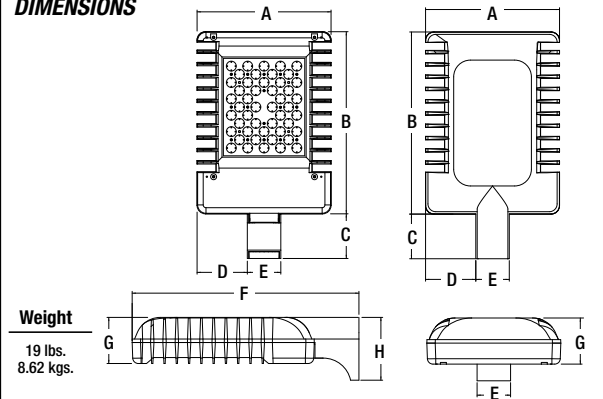


32 LED



48 LED

DIMENSIONS



Weight
19 lbs.
8.62 kgs.

| A | B | C | D | E | F | G | H |
|-------|---------|-------|-------|------|---------|-------|--------|
| 12" | 16.312" | 4" | 4.5" | 3" | 20.312" | 4.13" | 5.625" |
| 305mm | 414mm | 102mm | 114mm | 76mm | 515mm | 105mm | 143mm |

CERTIFICATIONS/LISTINGS



ORDERING INFORMATION ORDERING EXAMPLE: CL1S-A-48LU-5K-3-DB-RPA3

CL1S - A - [] - [] - [] - [] - [] - []

| SERIES | NO. OF LEDS | VOLTAGE | CCT | DRIVE CURRENT | OPTIONS |
|--|--|--|---|---|---|
| CL1S Cimarron LED Pedestrian Scale | 16L 16 High brightness LEDs 32L 32 High brightness LEDs 48L 48 High brightness LEDs | U¹ Universal 120V-277V, 50/60 Hz 1 120V 2 208V 3 240V 4 277V 5 480V, 60 Hz F 347V, 60 Hz E³ 220V, 50 Hz | 3K 3000K, 80 CRI 4K 4000K, 70 CRI 5K 5000K, 67 CRI | Leave blank for 700mA (standard) 035⁵ 350mA (32L, 48L) 053 525mA (32L) 520mA (48L) | BC³ Backlight control CD Continuous dimming F(X)² Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, F-347V) RPA3 3" Round pole adapter RPA4 4" Round pole adapter TB Terminal block WB Wall bracket 7PR Photocell receptacle |
| MOUNTING | | DISTRIBUTION | | | |
| A 4" straight arm attached to housing complete with quick-mount plate | | 2 Type II 3 Type III 4 Type IV 5M Type V Medium 5S Type V Short 5W Type V Wide 2L Type II rotated left 3L Type III rotated left 4L Type IV rotated left 2R Type II rotated right 3R Type III rotated right 4R Type IV rotated right | | | |
| | | COLOR | | | |
| | | DB Dark Bronze BL Black WH White GR Gray PS Platinum Silver RD Red (premium color) FG Forest Green (premium color) CC Custom Color | | | |

- Notes: 1 - Fuse option not available with universal voltage
 2 - Select F3 fusing option for 220V
 3 - Recommended for Type III and IV distributions only
 4 - 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, must order minimum of one SCP-REMOTE control to program dimming settings (see accessories)
 5 - Not available with WIR or WIRSC
 6 - Not available with SCO, SCL, SCP or SCPW

PIR MOTION/OCCUPANCY CONTROL OPTIONS

- SCO⁵** On/Off control (line voltage device not for use with 7PR receptacle option and external wireless control devices)
- SCL⁵** Add-on occupancy sensor for use with ext. wireless control device connected thru 7PR receptacle. Consult control manufacturer for compatibility.
- SCP^{4,5}** Programmable dimming control (line voltage device not for use with 7PR receptacle option and external wireless control devices). A minimum of one SCP-REMOTE accessory remote control required for configuration; (Standard lens with greater sensitivity; motion detection radius equal to .75 X luminaire mounting height (approx. distance))
- SCPW^{4,5}** Programmable dimming control wide lens

WIRELESS CONTROL OPTIONS

- WIR⁵** wiSCAPE Fixture Module, in-fixture relay for wireless lighting control
- WIRSC⁵** wiSCAPE Fixture Module, in-fixture relay for wireless lighting control and motion/occupancy control

CONTROLS GUIDE

As energy codes become more restrictive and we push for sustainable lighting designs, the integration of lighting controls and luminaires have become more and more important. Hubbell Lighting offers numerous outdoor lighting controls solutions for the most demanding applications. Visit the link below to learn more about energy-saving controls.

www.hubbellighting.com/solutions/controls/



PERFORMANCE DATA

| NUMBER OF LEDS | DRIVE CURRENT (MILLIAMPS) | SYSTEM WATTS | DISTRIBUTION TYPE | 5K (5000K NOMINAL, 67 CRI) | | | | | 4K (4000K NOMINAL, 70 CRI) | | | | | 3K (3000K NOMINAL, 80 CRI) | | | | |
|----------------|---------------------------|--------------|-------------------|-------------------------------|------|---|---|---|-------------------------------|------|---|---|---|-------------------------------|------|---|---|---|
| | | | | LUMENS | LPW* | B | U | G | LUMENS | LPW* | B | U | G | LUMENS | LPW* | B | U | G |
| 16 | 700mA | 38w | 2 | 3053 | 80 | 1 | 1 | 1 | 3077 | 81 | 1 | 2 | 2 | 2438 | 64 | 1 | 2 | 2 |
| | | | 3 | 3075 | 81 | 1 | 1 | 1 | 3099 | 82 | 1 | 1 | 1 | 2456 | 65 | 1 | 1 | 1 |
| | | | 4 | 3113 | 82 | 1 | 1 | 1 | 3136 | 83 | 1 | 1 | 1 | 2486 | 65 | 1 | 1 | 1 |
| | | | 5S | 3457 | 91 | 2 | 0 | 0 | 3484 | 92 | 2 | 0 | 0 | 2761 | 73 | 2 | 0 | 0 |
| | | | 5M | 3731 | 98 | 2 | 0 | 0 | 3454 | 91 | 2 | 0 | 1 | 2737 | 72 | 2 | 0 | 0 |
| | | | 5W | 3166 | 83 | 3 | 1 | 1 | 3160 | 83 | 2 | 1 | 1 | 2725 | 72 | 2 | 1 | 1 |
| 32 | 700mA | 76w | 2 | 6527 | 86 | 2 | 1 | 2 | 6042 | 80 | 2 | 1 | 2 | 4788 | 63 | 1 | 1 | 2 |
| | | | 3 | 6574 | 87 | 2 | 1 | 2 | 6085 | 80 | 2 | 1 | 2 | 4823 | 63 | 1 | 1 | 2 |
| | | | 4 | 6654 | 88 | 1 | 1 | 2 | 6159 | 81 | 1 | 1 | 2 | 4881 | 64 | 1 | 1 | 2 |
| | | | 5S | 7391 | 97 | 3 | 0 | 0 | 6841 | 90 | 3 | 0 | 0 | 5422 | 71 | 2 | 0 | 0 |
| | | | 5M | 7327 | 96 | 3 | 0 | 1 | 6782 | 89 | 3 | 0 | 1 | 5375 | 71 | 3 | 0 | 1 |
| | | | 5W | 6704 | 88 | 3 | 1 | 2 | 6206 | 82 | 3 | 1 | 2 | 4918 | 65 | 3 | 0 | 1 |
| | 525mA | 56w | 2 | 4930 | 88 | 2 | 1 | 2 | 4564 | 81 | 1 | 1 | 2 | 3617 | 65 | 1 | 1 | 2 |
| | | | 3 | 4966 | 89 | 1 | 1 | 2 | 4596 | 82 | 1 | 1 | 1 | 3643 | 65 | 1 | 1 | 1 |
| | | | 4 | 5026 | 90 | 1 | 1 | 2 | 4652 | 83 | 1 | 1 | 2 | 3687 | 66 | 1 | 1 | 1 |
| | | | 5S | 5583 | 100 | 2 | 0 | 0 | 5168 | 92 | 2 | 0 | 0 | 4096 | 73 | 2 | 0 | 0 |
| | | | 5M | 5535 | 99 | 2 | 0 | 1 | 5123 | 91 | 2 | 0 | 1 | 4060 | 73 | 2 | 0 | 1 |
| | | | 5W | 5064 | 90 | 3 | 1 | 1 | 4688 | 84 | 3 | 1 | 1 | 3715 | 66 | 2 | 1 | 1 |
| | 350mA | 38w | 2 | 3488 | 92 | 1 | 1 | 2 | 3229 | 85 | 1 | 1 | 1 | 2559 | 67 | 1 | 1 | 1 |
| | | | 3 | 3513 | 92 | 1 | 1 | 1 | 3252 | 86 | 1 | 1 | 1 | 2578 | 68 | 1 | 1 | 1 |
| | | | 4 | 3556 | 94 | 1 | 1 | 1 | 3292 | 87 | 1 | 1 | 1 | 2609 | 69 | 0 | 1 | 1 |
| | | | 5S | 3950 | 104 | 2 | 0 | 0 | 3656 | 96 | 2 | 0 | 0 | 2898 | 76 | 1 | 0 | 0 |
| | | | 5M | 3916 | 103 | 2 | 0 | 0 | 3625 | 95 | 2 | 0 | 0 | 2873 | 76 | 2 | 0 | 0 |
| | | | 5W | 3583 | 94 | 3 | 1 | 1 | 3317 | 87 | 2 | 1 | 1 | 2628 | 69 | 2 | 1 | 1 |
| 48 | 700mA | 110w | 2 | 9864 | 90 | 2 | 2 | 3 | 9131 | 83 | 2 | 2 | 3 | 7236 | 66 | 2 | 1 | 2 |
| | | | 3 | 9935 | 90 | 2 | 1 | 2 | 9593 | 87 | 2 | 1 | 2 | 7288 | 66 | 2 | 1 | 2 |
| | | | 4 | 10056 | 91 | 2 | 1 | 2 | 9309 | 85 | 1 | 1 | 2 | 7377 | 67 | 1 | 1 | 2 |
| | | | 5S | 11169 | 102 | 3 | 0 | 0 | 10339 | 94 | 3 | 0 | 0 | 8193 | 74 | 3 | 0 | 0 |
| | | | 5M | 11073 | 101 | 4 | 1 | 2 | 10250 | 93 | 4 | 1 | 2 | 8123 | 74 | 3 | 1 | 2 |
| | | | 5W | 10132 | 92 | 3 | 1 | 2 | 9379 | 85 | 3 | 1 | 2 | 9662 | 88 | 3 | 1 | 2 |
| | 525mA | 82w | 2 | 7230 | 88 | 2 | 1 | 2 | 6692 | 82 | 2 | 1 | 2 | 5303 | 65 | 1 | 1 | 2 |
| | | | 3 | 7282 | 89 | 2 | 1 | 2 | 7031 | 86 | 2 | 1 | 2 | 5342 | 65 | 1 | 1 | 2 |
| | | | 4 | 7370 | 90 | 1 | 1 | 2 | 6823 | 83 | 1 | 1 | 2 | 5407 | 66 | 1 | 1 | 2 |
| | | | 5S | 8186 | 100 | 3 | 0 | 0 | 7578 | 92 | 3 | 0 | 0 | 6005 | 73 | 3 | 0 | 0 |
| | | | 5M | 8116 | 99 | 3 | 1 | 2 | 7512 | 92 | 3 | 1 | 2 | 5954 | 73 | 3 | 1 | 1 |
| | | | 5W | 7426 | 91 | 3 | 1 | 1 | 6874 | 84 | 3 | 1 | 1 | 7081 | 86 | 2 | 1 | 1 |
| | 350mA | 55w | 2 | 5211 | 95 | 2 | 1 | 2 | 4823 | 88 | 1 | 1 | 2 | 3822 | 69 | 1 | 1 | 1 |
| | | | 3 | 5248 | 95 | 1 | 1 | 2 | 5067 | 92 | 1 | 1 | 1 | 3850 | 70 | 1 | 1 | 1 |
| | | | 4 | 5312 | 97 | 1 | 1 | 2 | 4917 | 89 | 1 | 1 | 2 | 3897 | 71 | 1 | 1 | 1 |
| | | | 5S | 5900 | 107 | 2 | 0 | 0 | 5462 | 99 | 2 | 0 | 0 | 4328 | 79 | 2 | 0 | 0 |
| | | | 5M | 5849 | 106 | 3 | 1 | 1 | 5415 | 98 | 3 | 1 | 1 | 4291 | 78 | 2 | 1 | 1 |
| | | | 5W | 5352 | 97 | 3 | 1 | 1 | 4954 | 90 | 2 | 1 | 1 | 5104 | 93 | 2 | 1 | 0 |

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment, application and inherent performance tolerances of the electrical components.

PROJECTED LUMEN MAINTENANCE

| AMBIENT TEMP. | 0 | 25,000 | 50,000 | *TM-21-11 60,000 | 100,000 | CALCULATED L70 (hours) |
|---------------|------|--------|--------|---------------------|---------|---------------------------|
| 25°C / 77°F | 1.00 | 0.98 | 0.96 | 0.96 | 0.94 | >675,000 |
| 40°C / 104°F | 0.98 | 0.96 | 0.95 | 0.94 | 0.92 | >556,000 |

* Nichia 219B, 700mA, 85°C Ts, 10,000hrs

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

| AMBIENT DATA | | |
|--------------|-------|-------------|
| TEMP | | LUMEN MULT. |
| 0°C | 32°F | 1.02 |
| 10°C | 50°F | 1.01 |
| 20°C | 68°F | 1.00 |
| 25°C | 77°F | 1.00 |
| 30°C | 86°F | 1.00 |
| 40°C | 104°F | 0.98 |
| 50°C | 122°F | 0.98 |



Spaulding Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000
 Due to our continued efforts to improve our products, product specifications are subject to change without notice.



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ELECTRICAL DATA

| NUMBER OF LED's | NUMBER OF DRIVERS | Drive Current [milliamps] | INPUT VOLTAGE (VOLTS) | OPER. CURRENT [AMPS] | SYSTEM POWER [WATTS] | IN-RUSH CURRENT (AMPS) |
|-----------------|-------------------|---------------------------|-----------------------|----------------------|----------------------|------------------------|
| 16 | 1 | std. (700mA) | 120 | 0.32 | 37.8 | |
| | | | 277 | 0.15 | 37.5 | |
| | | | 347 | | | |
| | | | 480 | | | |
| 32 | 2 | | 120 | 0.63 | 75.5 | |
| | | | 277 | 0.29 | 74.8 | |
| | | | 347 | | | |
| | | | 480 | | | |
| 48 | 3 | | 120 | 0.95 | 110.5 | |
| | | | 277 | 0.44 | 110.9 | |
| | | | 347 | | | |
| | | | 480 | | | |

Consult factory for 350mA and 520mA electrical data

ACCESSORIES/REPLACEMENT PARTS - Order Separately

| CATALOG NUMBER | DESCRIPTION |
|-------------------------|--|
| SCP-REMOTE ⁹ | Remote control for SCP option. Order at least one per project to program and control |
| 93052458 | 20KA surge protection with an end of life LED indicator |

PHOTOCONTROL EQUIPMENT

| CATALOG NUMBER | DESCRIPTION |
|----------------|---|
| PTL-1 | Photocontrol - twist-lock cell (120V) |
| PTL-8 | Photocontrol - twist-lock cell (120-277V) |
| PTL-5 | Photocontrol - twist-lock cell (480V) |
| PTL-6 | Photocontrol - twist-lock cell (347V) |
| PSC | Shorting cap - twist-lock |

MOUNTING ACCESSORIES

| CATALOG NUMBER | DESCRIPTION |
|-------------------------------|--|
| CL1S-RPA3-ACC-XX ¹ | Round pole adapter for straight arm (3¼ - 3¾") |
| CL1S-RPA4-ACC-XX ¹ | Round pole adapter for straight arm (3⅞ - 4½") |
| WB-CR-XX | Wall bracket |

¹ Replace XX with color choice, eg.: DB for Dark Bronze

TENON TOP POLE BRACKET ACCESSORIES

(2 3/8" OD tenon, RSS version requires 4" round pole adapter)

| Catalog Number | Description |
|----------------------|--|
| SETA-XX ¹ | Square pole tenon adapter (4 at 90 degrees) |
| RETA-XX ¹ | Round pole tenon adapter (4 at 90 degrees) |
| TETA-XX ¹ | Triangular pole tenon adapter (3 at 120 degrees) |

¹ Replace XX with color choice, eg.: DB for Dark Bronze

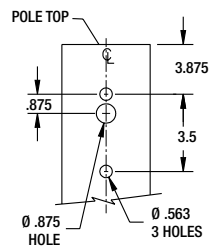
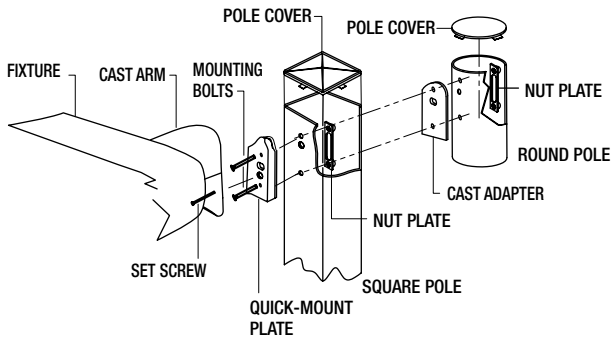
SURGE PROTECTION

- Field replaceable surge protection device (SPD) provides 20KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3
- The SPD is designed with a clamping voltage of 1600V at 20KA using industry standard 8/20µs waveform
- Max surge current = 20,000 Amps (see table)
- LED Indicator – Green LED is unlit at end of life

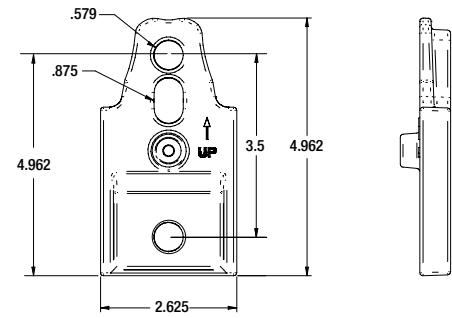
| Pulse Rating (8 x 20 µSec) | | cRUus | CE |
|-------------------------------|----------|----------------|-----|
| Strikes | Surge | I _n | |
| 1 | 20,000 A | 10KA | 5KA |
| 2 | 15,000 A | | |
| 15 | 10,000 A | | |
| 120 | 3,000 A | | |



FIXTURE MOUNTING



#2 DRILL PATTERN FOR POLES

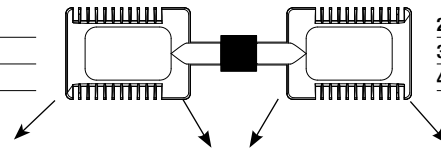


QUICK-MOUNT PLATE

FIXTURE MOUNTING – FACTORY ROTATED OPTICS

For proper light distribution and performance, rotated optics must be mounted as referenced in illustration. Consult instruction sheet included when mounting.

- 2L Type II rotated 90° left
- 3L Type III rotated 90° left
- 4L Type IV rotated 90° left

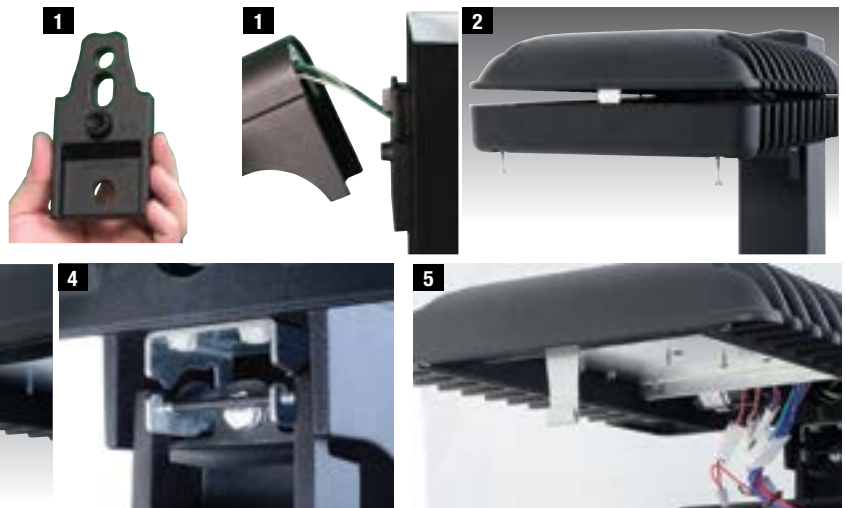


- 2R Type II rotated 90° right
- 3R Type III rotated 90° right
- 4R Type IV rotated 90° right

QUICK MOUNT INSTALLATION

The Cimarron CL1S installation features:

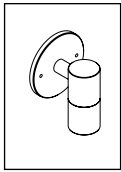
- 1 Quick-mount plate attaches to pole with two 3/4" bolts
- 2 4 - slot hex 1/4" captured screws secure luminaire door to top
- 3 Safety-latch holds luminaire door to prevent "free swing" door
- 4 Two stage hinge mechanism built into integral arm
- 5 Quick-connect wiring for a simplified, hassle-free installation



For installation video scan this code or visit link below:



<http://www.youtube.com/user/hubbelloutdoorbrands>



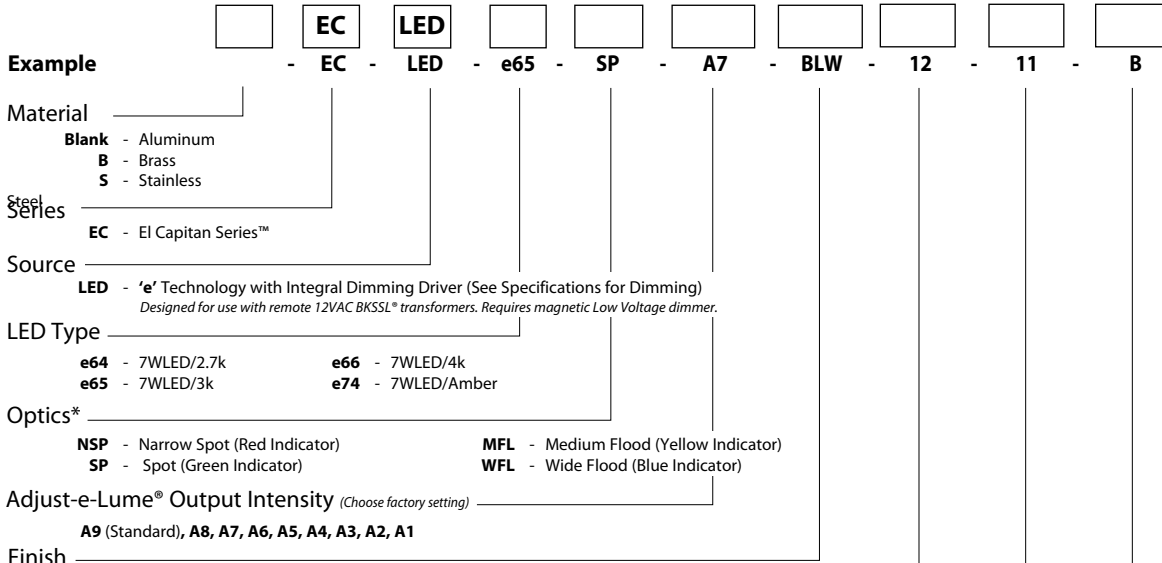
BKSSSL
SOLID STATE LIGHTING



EL CAPITAN™

| | |
|------------------------|--|
| PROJECT: | |
| TYPE: | |
| CATALOG NUMBER: | |
| SOURCE: | |
| NOTES: | |

CATALOG NUMBER LOGIC



| Aluminum Finish | | | Brass Finish | | Premium Finish | | |
|-------------------|------------|------------|------------------|---|--------------------------------------|------------------------------------|---|
| Powder Coat Color | Satin | Wrinkle | Machined | MAC | ABP | CMG | RMG |
| Bronze | BZP | BZW | Polished | POL | AMG Aleutian Mountain Granite | CRI Cracked Ice | SDS Sonoran Desert Sandstone |
| Black | BLP | BLW | Mitique™ | MIT | AQW Antique White | CRM Cream | SMG Sierra Mountain Granite |
| White (Gloss) | WHP | WHW | Stainless Finish | | BCM Black Chrome | HUG Hunter Green | TXF Textured Forest |
| Aluminum | SAP | — | Machined | MAC | BGE Beige | MDS Mojave Desert Sandstone | WCP Weathered Copper |
| Verde | — | VER | Polished | POL | BPP Brown Patina Powder | NBP Natural Brass Powder | WIR Weathered Iron |
| | | | Brushed | BRU <small>Interior use only.</small> | 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° **B** - 90° **C** - Flush **D** - 45° less Weep Hole (Interior Use Only) **E** - 90° less Weep Hole (Interior Use Only) **F** - 90° cutoff with Flush Lens

*Accommodates up to 2 Lens/Shielding media

| DRIVER DATA | Input Volts | InRush Current | Operating Current | Dimmable | Operation Ambient Temperature |
|-------------|------------------|--------------------|-------------------|-----------------------------|-------------------------------|
| | 12VAC/DC 50/60Hz | 250mA (non-dimmed) | 700mA | Magnetic Low Voltage Dimmer | -10°F-130°F |

LM79 DATA

| BK No. | CCT (Typ.) | Input Watts (Typ.) | CRI (Typ.) |
|--------|---------------|--------------------|------------|
| e64 | 2700K | 7.0 | 80 |
| e65 | 3000K | 7.0 | 80 |
| e66 | 4000K | 7.0 | 80 |
| e74 | Amber (590nm) | 7.0 | ~ |

L70 DATA

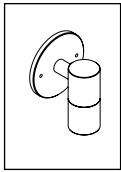
| Minimum Rated Life (hrs.) 70% of initial lumens(L70) |
|---|
| 50,000 |
| 50,000 |
| 50,000 |
| 50,000 |

*** OPTICAL DATA**

| Beam Type | Angle | e66 CBCP | Visual Indicator |
|--------------|-------|----------|------------------|
| Narrow Spot | 13° | 6889 | Red Dot |
| Spot | 15° | 5225 | Green Dot |
| Medium Flood | 23° | 1984 | Yellow Dot |
| Wide Flood | 31° | 1300 | 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 | RELEASED 06-06-16 | DRAWING NUMBER SUB000942 |
|---------------------|---|----------------------|-----------------------------|

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BKSSL
SOLID STATE LIGHTING

the power of
dimming with **adjust-e-lume**[®]
TECHNOLOGY

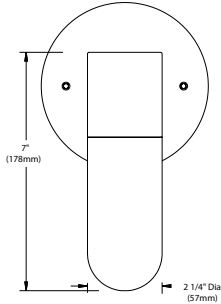
EL CAPITAN™

PROJECT:

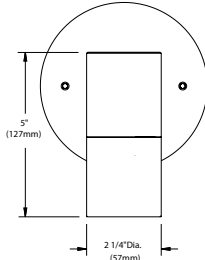
TYPE:

FRONT VIEW

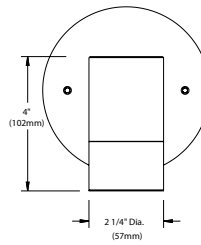
"A/D" CAP



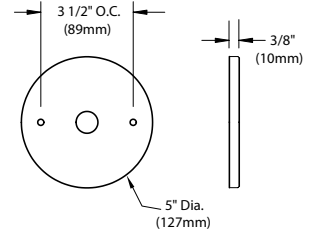
"B/E/F" CAP



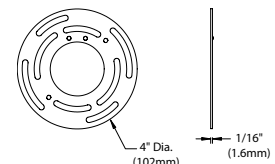
"C" CAP



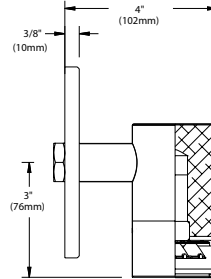
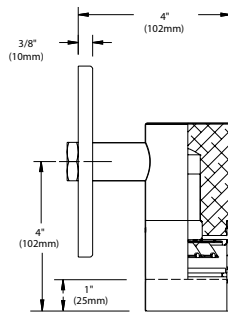
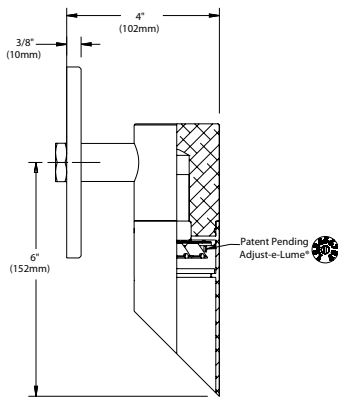
CANOPY DETAIL



UNIVERSAL RING



SIDE VIEW



Accessories (Configure separately)

Remote options:



TR Series



UPMRM™

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.

Materials

Furnished in Copper-Free Aluminum (Type 6061-T6), Brass (Type 360) or Stainless Steel (Type 316).

Body

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

Cap

Fully machined. Accommodates [1] lens or louver 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'). 'A' and 'B' caps include weephole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

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 <1A (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.

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.

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.

Installation

5" dia., machined canopy with stainless steel universal mounting ring permits mounting to 4" octagonal junction box (by others). Suitable for uplight or downlight installation.

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

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

Hardware

Tamper-resistant, stainless steel hardware. 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. 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. UL Listed. Certified to CAN/CSA/ANSI Standards. Suitable for indoor or outdoor use. Suitable for use in wet locations. RoHs compliant. Made in USA.



*Teflon is a registered trademark of DuPont Corporation.

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





B-K LIGHTING

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www.bklighting.com • info@bklighting.com

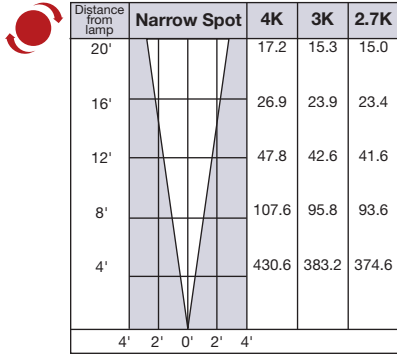
RELEASED
06-06-16

DRAWING NUMBER
SUB000942

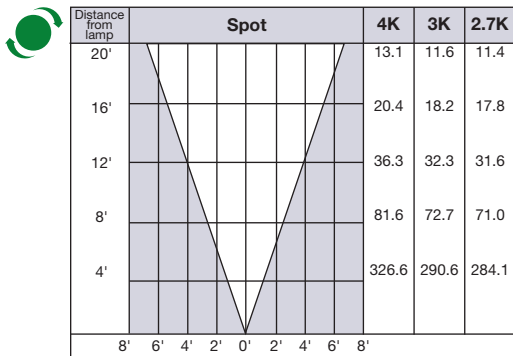
Select OptiKit™ for desired distribution

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

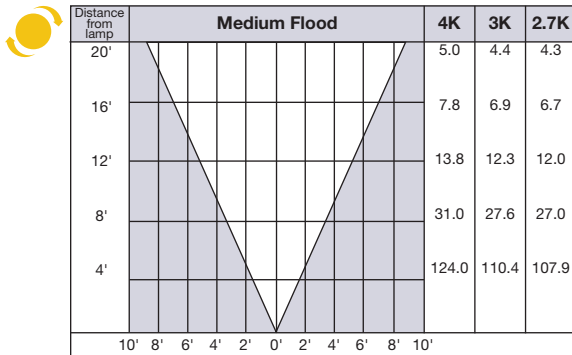
Set adjust-e-lume[®] Dial to desired output



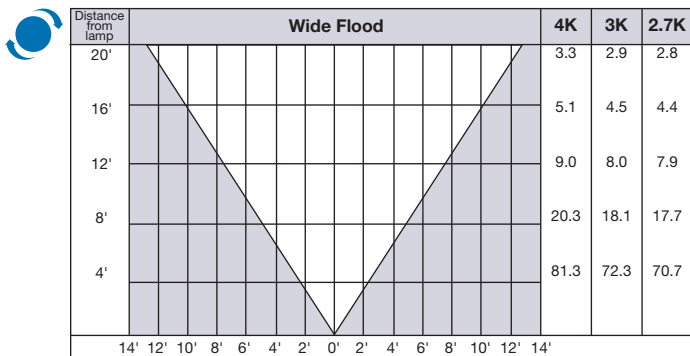
Note: If using No. 11 honeycomb baffle multiply footcandle values by .80



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



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



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

Type:
 Job:
 Fixture Catalog number:

Approvals:

 Fixture Mode Finish

Date:
 Page: 1 of 2

Specifications

Housing: Die-cast low copper alloy (<0.6% Cu) aluminum with clear anodized finish. Two 1/2" NPT in sides. Housing mounts into concrete, brick, or masonry (non-combustible materials). Internal splice area provided behind lamp plate.

Lens Frame: Die-cast aluminum, with silicone gasket, attaches to housing with two captive 10-32 stainless steel, hex socket cap screws.

Lens: Tempered prismatic glass with silicone gasket, concealed above lens frame opening.

Finish: On lens frame only, each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat finish. Standard colors are Black (**BL**), Dark Bronze (**DB**), and Verde Green (**GR**).

Optical System: A total of 3 or 9 LED emitters are configured together as a module. Available in 3000K, 4200K, and 5100K.

Driver: Universal Voltage from 120 to 277V with a ±10% tolerance. -40° F. starting temperature. All drivers are Underwriters Laboratories recognized.

ORDERING INFORMATION

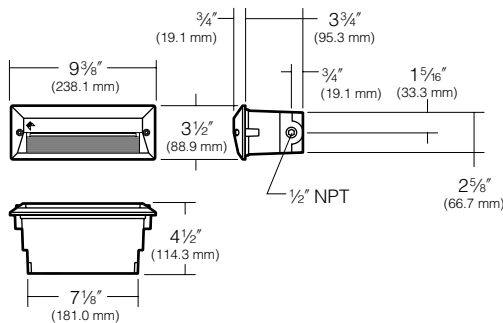
| Fixture | Source |
|--|----------------------|
| <input type="checkbox"/> EL807 / 3L3KUV ¹ | 5.3W, 3 LED's, 3000K |
| <input type="checkbox"/> EL807 / 3L4KUV ¹ | 5.3W, 3 LED's, 4200K |
| <input type="checkbox"/> EL807 / 3L5KUV ¹ | 5.3W, 3 LED's, 5100K |

| Fixture | Source |
|--|-----------------------|
| <input type="checkbox"/> EL807 / 9L3KUV ¹ | 10.5W, 9 LED's, 3000K |
| <input type="checkbox"/> EL807 / 9L4KUV ¹ | 10.5W, 9 LED's, 4200K |
| <input type="checkbox"/> EL807 / 9L5KUV ¹ | 10.5W, 9 LED's, 5100K |

¹ Universal Voltage from 120 to 277V with a ±10% tolerance.
 For 5.3W, Max Amps. are .13 for 120V, .080 for 208V, .080 for 240V, .060 for 277V. For 10.8W, Max Amps. are .090 for 120V, .050 for 208V, .040 for 240V, .040 for 277V..

Finish

- BL** - Black
- DB** - Dark Bronze
- GR** - Verde Green



Listings and Ratings

| | | |
|--------------------------|------------|-------------|
| UL cUL 1598 ¹ | IP66 Rated | 25C Ambient |
|--------------------------|------------|-------------|

¹Suitable for wet locations
 KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

Type:

Job:

Page: 2 of 2

Lumen Data

| Spectroradiometric | | | |
|--------------------------------|---------------|---------------|---------------|
| | 3000K | 4200K | 5100K |
| Correlated Color Temp. CCT (K) | 2800 to 3175K | 3800 to 4600K | 4600 to 5600K |
| Color Rendering Index (CRI) | ≥75 | ≥70 | ≥65 |

| ELECTRICAL - Drive Current @350mA (3 LEDs) | | |
|--|-----------|--------------|
| Volts -AC | Amps - AC | System Watts |
| 120 | 0.13 | 5.3 |
| 208 | 0.08 | 5.3 |
| 240 | 0.08 | 5.3 |
| 277 | 0.06 | 5.3 |

| ELECTRICAL - Drive Current @350mA (9 LEDs) | | |
|--|-----------|--------------|
| Volts -AC | Amps - AC | System Watts |
| 120 | 0.09 | 10.5 |
| 208 | 0.05 | 10.5 |
| 240 | 0.04 | 10.5 |
| 277 | 0.04 | 10.5 |

| Absolute Lumens (3 LEDs) | |
|--------------------------|------------|
| Temperature | EL807/3L*K |
| 3000K | 61 |
| 4200K | 71 |
| 5100K | 78 |

| Absolute Lumens (9 LEDs) | |
|--------------------------|------------|
| Temperature | EL807/9L*K |
| 3000K | 167 |
| 4200K | 188 |
| 5100K | 211 |

| Lumens Per Watt (3 LEDs) | |
|--------------------------|------------|
| Temperature | EL807/3L*K |
| 3000K | 11.5 |
| 4200K | 13.4 |
| 5100K | 14.7 |

| Lumens Per Watt (9 LEDs) | |
|--------------------------|------------|
| Temperature | EL807/9L*K |
| 3000K | 15.9 |
| 4200K | 17.9 |
| 5100K | 20.1 |