Product Description

The SR6[™] LED architectural downlight delivers up to 1800 lumens of exceptional 90+ CRI light with efficacy up to 75 lumens per watt. It features Light Source-Reflector Unity[™], a highly effective luminaire design approach that enables exceptional aperture aesthetics, by eliminating before-lamp images and creating a uniform light distribution. Combined with Cree TrueWhite* Technology, the SR6 delivers beautiful, high-quality light with greater optical control than ever before. Available in variety of color temperatures, with high-quality anodized aluminum reflector finishes, and out-of-the-box controls compatibility, the SR6 is an ideal solution for architectural quality downlighting.

Performance Summary

Utilizes Cree TrueWhite® Technology

Light Source-Reflector Unity™ Design

Delivered Light Output: SR6-12 Lwith SR6T30SSGC trim: 1231 lumens; SR6-18 Lwith SR6T30SSGC trim: 1241 lumens; SR6-18 Lwith SR6T30SSGC trim: 1231 lumens; SR6-18 Lwith SR6T30SSGC trim: 1241 lumens; SR6T30SSGC trim: 1241 lumens; SR6-18 Lwith SR6T30SSGC trim: 1241 lumens; SR6-18 Lwith

trim: 1824 lumens.

Input Power: SR6-12L: 17 watts, SR6-18L: 24 watts

CRI: 90

CCT: 3000K, 3500K, 4000K

Shield Angles: 30°, 45° (complementary wall wash option available)

Dimming: 0-10V dimming to 5%

Lifetime: Designed to last minimum 75,000 hours

Warranty: 5Years

Ordering Information

Example: SR6H-A-12OV + SR6E-12L-A-30K + SR6T-30-SSGC-FF-WW Fully assembled luminaire is composed of three components that must be ordered separately: SR6H: Housing SR6E: Light Engine SR6T: Reflector Kit

| Product | PSU Type | Voltage | Controls |
|------------|---------------|---------|---------------|
| SR6H | A | 120V | 10V |
| 6" Housing | Type A Output | 277V | 0-10V Dimming |

| Product | Options | Input Power | Color Temperature |
|--------------------------------|--|--------------------------|---------------------------|
| SR6E 6" Light Engine | 12L 17W 1200 Lumens - 71 LPW | A Type A Input | 30K 3000 Kelvin |
| | 18L 24W 1800 Lumens - 75 LPW | | 35K 3500 Kelvin |
| | | | 40K 4000 Kelvin |

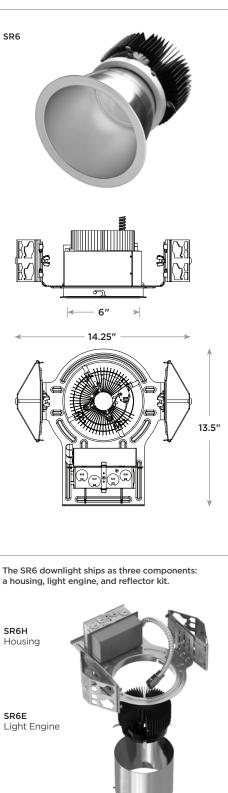
| Product | Shield | Fi | | Flange Finish | Option |
|----------------------|--|--|---|-------------------------------|---------------------------------------|
| SR6T 6" Reflector | 30 30° Shield Angle 45 45° Shield Angle | W White Paint C Clear GR Graphite BR Bronze CG Champagne Gold PE Pewter WH Wheat B Black * | SSGC Clear Satin SSGGR Graphite Satin SSGBR Bronze Satin SSGCG Champagne Gold Satin SSGPE Pewter Satin SSGWH Wheat Satin SSGB Black Satin * | FF Matching WF White | Blank Standard WW* Wall wash |

NOTE: SSG - Soft Satin Glow * Target Availability Mid 2012.





* Black and Black Satin finish do not qualify for Energy Star



SR6T Reflector Kit



Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite* Technology mixes the light from the highest performing red and unsaturated yellow LEDs. This patented approach delivers an exclusive combination of 90+ CRI, beautiful light characteristics, and lifelong color consistency, all while maintaining high luminous efficacy—a true no compromise solution.

LIGHT SOURCE-REFLECTOR UNITY™ DESIGN

Light Source-Reflector Unity[™] optical design is a highly effective luminaire design approach in which the LED light source is seamlessly integrated with the reflector to provide flawless aesthetics and enhanced optical control. Built around a uniform light source, uniquely crafted attachment features and specialized reflector optics, this design platform elevates the appearance of LED lighting to the highest tier. Dark, shadowy bands and before-lamp images are eliminated, providing an exceptionally smooth, non-distracting transition from ceiling to light source. The precisely formed contours and depth of the reflectors are engineered to carefully soften the light source and achieve a beautiful, quiet aperture appearance with optimal light distribution.

CONSTRUCTION & MATERIALS

- Durable light engine protects LEDs. Adjustable flip clips provide sturdy retention within the collar for flush ceiling fit. Extruded aluminum heat sink is integrated to conduct heat away from LEDs and transfer it to the plenum space for optimal performance.
- Rugged pan-style housing enables tool-less final assembly, featuring a high efficiency power supply with one-click electrical hook-up and adjustable engagement features to accommodate different hanger bar options.
- Field replaceable LED board and heat sink.

OPTICAL SYSTEM

- Within the light mixing chamber, a unique combination of reflective and refractive optical components achieves a uniform, comfortable appearance while eliminating pixelation and color fringing.
- Diffusing lens shields direct view of LEDs while the Light Source-Reflector UnityTM enabled design balances the brightness of the luminaire with the ceiling to ensure a low-glare, high angle appearance. Deep set diffusing lens also provides more precise optical control with greater visual cut-off.

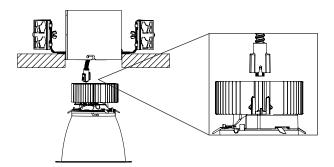
ELECTRICAL SYSTEM

- · Field replaceable, high-efficiency driver and power supply.
- Power Factor > 0.9 nominal
- Input Voltage: 120V or 277V, 60Hz
- Dimming: Dimmable to 5% with most 0-10V dimmers.

REGULATORY & VOLUNTARY QUALIFICATIONS

- Designed to exceed ENERGY STAR[®] requirements.
- cULus Listed
- Designed to exceed California Title-24 high efficacy luminaire requirements.
- Suitable for damp locations.

Installation

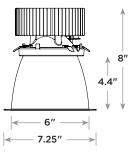


- One-click electrical connection allows for easy, below ceiling, connection of power supply and light engine.
- Flip-clip installation technique accommodates ceiling thickness up to the height of the reflector.

NOTE: Reference www.cree.com/lighting for detailed installation instructions.

SR6 30° Shield Angle

SR6 45° Shield Angle

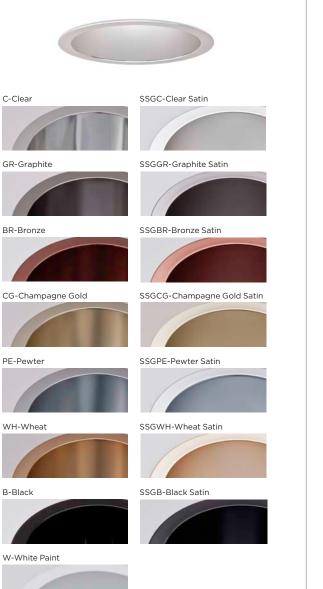




SR6™

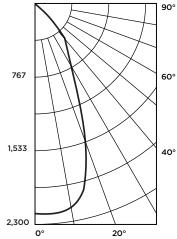
Reflector Accessories

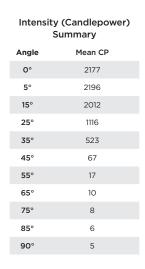
High-quality anodized aluminum reflector finishes, available in 30° and 45° shield angles and wall wash options.



Photometry

SR6E-18L WITH SR6T-45-C





Zonal Lumen Summary

| Zone | Lumens | % Lamp | Luminaire |
|------|---------|--------|-----------|
| 0-30 | 1,291.5 | 70.8% | 70.8% |
| 0-40 | 1,642.6 | 90% | 90% |
| 0-60 | 1,783.9 | 97.8% | 97.8% |
| 0-90 | 1,824.8 | 100% | 100% |

For SR6E-12L multiply by 0.67. Reference www.cree.com/lighting for detailed photometric data.

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