## **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: SR6-12L: 1200 lumens, SR6-18L: 1800 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: 10 Years†

## Ordering Information

Example: SR6H-A-120V + 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	<b>12L</b> 17W 1200 Lumens - 71 LPW	A Type A Input	<b>30K</b> 3000 Kelvin
	<b>18L</b> 24W 1800 Lumens - 75 LPW		<b>35K</b> 3500 Kelvin
			<b>40K</b> 4000 Kelvin

Product	Shield	Fir		Flange Finish	Option
SR6T 6" Reflector	30° Shield Angle 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

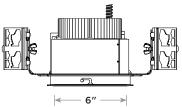
- \* Reference www.cree.com/lighting for recommended dimmers. † See www.cree.com/lighting for warranty terms. \*\*Available May 2013

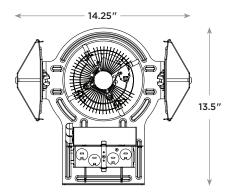




Rev. Date 03/19/2013







NOTE: Reference opposite page for detailed dimensions.

The SR6 downlight ships as three components: a housing, light engine, and 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 Unity<sup>TM</sup> 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.

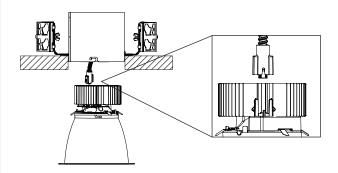
#### **ELECTRICAL SYSTEM**

- 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

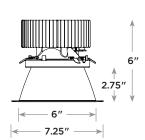


- One-click electrical connection allows for easy, below ceiling, connection of power supply and light engine.
- Flip-clip installation technique accommodates ceiling thickness up to the height of the reflector.

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

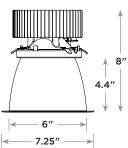
# SR6

30° Shield Angle



## SR6

45° Shield Angle





#### **Reflector Accessories**

C-Clear

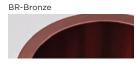
High-quality anodized aluminum reflector finishes, available in  $30^\circ$  and  $45^\circ$  shield angles and wall wash options.







SSGC-Clear Satin

















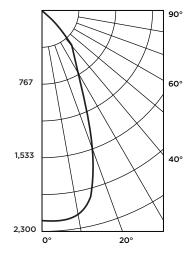




W-White Paint

# **Photometry**

## SR6E-18L WITH SR6T-45-C



Intensity (Candlepower) Summary			
Angle	Mean CP		
O°	2177		
5°	2196		
15°	2012		
25°	1116		
35°	523		
45°	67		
55°	17		
65°	10		
75°	8		
85°	6		
90°	5		

#### 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.

