### DESCRIPTION

The Halo Surface LED Downlight (SLD) incorporates WaveStream™ technology to create an ultra-low profile surface mounting luminaire with the performance and look of a traditional downlight. SLD6 is designed for installation in many 3-1/2" and 4" square, octagon or round junction boxes. And may also retrofit in 5" and 6" IC and Non-IC recessed housings.\* Suitable for residential or commercial installations. Ideal for closets, storage areas, attics and basements. Compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5).

### SPECIFICATION FEATURES

### CONSTRUCTION

• Die cast aluminum trim ring, and die formed aluminum frame

### OPTICS

- WaveStream<sup>™</sup> technology provides uniform luminance from a low profile flat lens
- AccuAim<sup>™</sup> optics provide directional control for the "cone-of-light" beam distribution of a traditional downlight.
- Precision molded lens features high transmission polymer with UV stabilized protecting film

### DESIGNER TRIMS

Accessories (sold separately) SLD designer trims are accessory rings that attach to the SLD for a permanent finish.\* Refer to SLD accessories specification sheet for details.

- White (Paintable)
- Satin Nickel
- Tuscan Bronze
- \*SLD accessory trims attach with permanent adhesion and are not interchangeable after installation.

### ELECTRICAL JUNCTION BOX MOUNTING

- SLD may be used in compatible electrical junction boxes in direct contact with insulation including spray foam insulation
- Suitable for installation in many 3-1/2" and 4" square, octagon, and round electrical junction boxes

Note: Driver consumes 3 cubic inches of junction box

 Installer must ensure compatibility of fit, wiring and proper mounting in the electrical junction box. This includes all applicable national and local electrical and building codes.

- Proprietary Slot-N-Lock quick installation system for junction box installation
- T-bracket with Slot-N-Lock mounting tabs included

### **RECESSED HOUSING MOUNTING**

- May be installed in IC recessed housings in direct contact with insulation
- \* Note: Not for use in recessed housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013
- Torsion Spring 5" & 6"
- Optional precision formed torsion spring bracket kit is included
- The torsion springs adjust on the frame to fit 5" or 6" compatible housings
- Friction Blade 5" & 6"
- Optional precision formed friction blades included
- For retrofit in 5" and 6" housings without torsion spring mounting tabs
- Friction blade design allows the SLD to be installed in any position within the housing aperture (360 degrees)

### LED

- Linear LED arrays are
- integrated in trim perimeter ColorTemperature: 2700K, 3000K,
- 3500K, 4000K • CRI options: 80 and 90
  - 90 CRI can be used for California Title 24 compliance/ certified to Title 20
  - 80 CRI can be used to comply with California Title 24 Non-**Residential Lighting Controls** as a LED luminaire.

### WARRANTY

**Cooper Lighting Solutions provides** a five year limited warranty on the SLD LED



Refer to ENERGY STAR® Certified Products List.

IECC

## 3000K 3500K 4000K





Can be used to comply with California Title 24 High Efficacy requirements. Certified to California Appliance Efficiency Database under JA8. Indoor LED nominal CCT of 4000K or less.

### Catalog # Туре Project Date Comments Prepared by

LED CHROMATICITY

ensures LED color uniformity,

sustainable Color Rendering

ColorTemperature (CCT) over

Index (CRI) and Correlated

the useful life of the LED

exceeds ENERGY STAR®

color standards per ANSI.

90 CRI model features high

greater than 50

over time

•

Junction Box

color performance with R9

Every Halo LED is quality tested,

measured, and serialized in a

permanent record to register

lumens, wattage, CRI and CCT.

• Halo LED serialized testing and

measurement ensures color

and lumen consistency on a

per-unit basis, and validates

**ELECTRICAL CONNECTIONS** 

boxes recommended)

**Recessed Housings** 

Series LED Housings

The included E26 Edison

capability for retrofit\*

• LED connector is a non-

for tool-less installation

auick connector included

long-term product consistency

• Compatible with 3-1/2" x 2" and

4" x 1-1/2" deep round, square

Supply Wire Adapter with LED

and octagon boxes (2-1/8" deep

LED connector is compatible with

Halo 5" H550 Series and 6" H750

• LED Connector meets California

standard as a non-screw base

screw-base adapter provides

screwbase luminaire disconnect

Title-24 high-efficacy luminaire

• LED chromaticity of 3 SDCM

# A tight chromaticity specification

### SLD 1200 Series SLD6128xxWH

80CRI 2700K, 3000K, 3500K, and 4000K

### SLD6129xxWH

**90CRI** 2700K, 3000K, 3500K, and 4000K

> 6" Surface LED Downlight

**High Lumen 1200 Series** 

### Suitable for ceiling or wall electrical junction boxes

Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE<sup>™</sup>)

### ENERGY DATA

	80 CRI	90 CRI	
Lumens (4000K models)	1215 1000		
Input Voltage	120V	120V	
Frequency	50/60 Hz	50/60 Hz	
Input Current	0.12 A	0.12 A	
Input Power	14.8 W	14.8 W	
Efficiency (4000K models)	82 lm/W	68 lm/W	
THD	≤ 20%		
Power Factor	≥ 0.90		
T Ambient	-30 - +40°C		
Sound Rating	Class A		

### NOMENCLATURE

### SLD612830WH

612 = 6" SLD 1200 Series

8 = >80 CRI 30 = 3000K

WH = Matte White



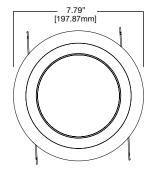
### LED DRIVER

- Driver is a 120V input, high efficiency, dimmable electronic power supply providing DC power to the LED arrays
- Driver features high power factor, low THD, and has integral thermal protection in the event of over temperature or internal failure
- Driver is replaceable if it should be required

### DIMMING

 Designed for continuous dimming
May be installed in IC recessed capability to nominally 5% with many 120V Leading Edge (LE) and Trailing Edge (TE) phase control dimmers. Dimming to 5% is best assured using dimmers with low end trim adjustment. Consult dimmer manufacturer for compatibility and conditions of use. (Note some dimmers require a neutral in the wallbox.)

### DIMENSIONS



### COMPLIANCE

- cULus Listed ceiling and wall cULus Damp Location listed
- ceiling and wall cULus Wet Location Listed, ceiling only (shower rated)
- Suitable for use in closets, compliant with NFPA® 70, NEC® Section 410.16 (A)(3) and 410.16 (C)(5)
- · SLD may be used in compatible electrical junction boxes in direct contact with insulation including
- housings in direct contact with housings in direct contact with spray foam insulation. Refer to NEMA LSD 57-2013)
- UL Classified when used in retrofit with listed housings (See Housing Compatibility)
- EMI/RFI: meets FCC 47CFR Part 15 Class B limits, and is suitable for use in residential and commercial installations

7.79"

[197.87mm]

- Airtight certified per ASTM E283 (not exceeding 2.0 CFM under 57 Pascals pressure difference)
- 90 CRI: Can be used to comply with California Title 24 High Efficacy requirements.
- Can be used for International **Energy Conservation Code (IECC)** and Washington State Energy Code high efficiency luminaire compliance
- ENERGY STAR® certified luminaire - consult ENERGY STAR® Certified Product List
- · Contains no mercury or lead and RoHS compliant.
- insulation (Not for use in recessed . Photometric testing in accordance with IES LM-79
  - Lumen maintenance projections in accordance with IES LM-80 and TM-21
- SLD6129xxWH

SLD 1200 Series

2700K, 3000K, 3500K,

SLD6128xxWH

80CRI

and 4000K

**90CRI** 2700K, 3000K, 3500K, and 4000K

> 6" Surface LED Downlight

### High Lumen 1200 Series

Suitable for ceiling or wall electrical junction boxes

Suitable for 5" & 6" recessed housing retrofit (IC, Non-IC & AIR-TITE™)

### **ORDERING INFORMATION**

SAMPLE NUMBER: SLD612927WH SLD6TRMSN

Junction Box Installation: Order junction box separately, as supplied by others, to complete installation. Recessed Installation: Order Halo recessed housing separately to complete installation.

.8" [21.46mm]

[17.28mm]

	Color Rendering Index	Color Temperature (CCT)		Accessories
SLD612= 6" Surface LED Downlight, 120V 1200 Series California non-E26 Models SLD612927WH-CA SLD612930WH-CA SLD612935WH-CA SLD612940WH-CA	8=80 CRI 9=90 CRI	27=2700K 30=3000K 35=3500K 40=4000K	WH=White	Designer Trims     Fit over the SLD for a designer finish     SLD6TRMSN=6" SLD Satin Nickel     SLD6TRMTBZ=6" SLD Tuscan Bronze     SLD6TRMWH=6" SLD White (paintable)     "SLD accessory trims attach with permanent adhesion and are not interchangable after installation     J-Box Spacer Extension Ring     Add 15/16" depth when SLD driver cannot fit into installed junction box     SLD6EXT=6" Surface LED J-Box Extender, 9.5" O.D.     RAD Adapters     When junction box is mounted flat on a ceiling or beam surface (not recessed in ceiling)     SLD6FAD=6" SLD Round Surface J-Box Adapter, 7.92" O.D. (for 4-inch round or octagon junction boxes.)     SLD6SADPLT=6" SLD Square Surface J-Box Adapter Plate (For 4-inch square junction boxes, use with SLD6RAD.)     Spare Parts     SLD6ACCKIT=6" Accessory Parts Replacement Kit (Screwbase adapter, torsion springs, friction blades)     SLD6BRKT=6" Junction Box Bracket & Screws     Refer to SLD Accessories specification sheet for further information.
	1		1	



### HOUSING COMPATIBILITY

The SLD6 is UL Listed in Halo and All-Pro recessed housings, and is UL Classified for use with any 5 or 6 inch diameter recessed housing constructed of steel or aluminum with an internal volume that exceeds 107.9 in<sup>3</sup> in addition to those noted below. Note: Some other's housings require installation with included friction clips.

Compatible Halo LED Housings with LED luminaire connector (high-efficacy compliant)			
HALO	Recessed Can Size	Catalog Number	
LED	5"	H550ICAT, H550RICAT, E550RICAT, E550RICAT	
LLD	6"	H750ICAT, H750RICAT, H750T, H750RINTD010, H750TCP, H2750ICAT, H2750RICAT, E750ICAT, E750RICAT	

Halo LED Retrofit E	nclosures	
HALO	6"	ML7BXRFK, ML7E26RFK
Compatible Halo In	candescent E26	6 Screwbase Housings
	5"	H5ICAT, H5RICAT, H5ICATNB, H5T, H5RT, H25ICAT, H25ICATNB, E5TAT, E5RTAT, H5TNB, E5TATNB, E5ICAT, E5RICAT, E5ICATNB
HALO	6"	H7ICAT, H7RICAT, H7ICT, H7RICT, H7ICATNB, H7ICTNB, H7T, H7RT, H7TNB, H7TCP, H7UICT, H7UICAT, H27ICAT, H27RICAT, H27RT, E7ICAT, E7RICAT, E27RICAT, E7RICAT, E
·		

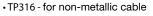
### COMPATIBLE WITH COOPER LIGHTING SOLUTIONS' CROUSE-HINDS JUNCTION BOXES



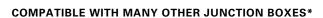
TP316 for non-metallic cable 4" x 4" x 2-1/8" (102mm x 102mm x 54mm)



TP317 for metal clad cable 4" x 4" x 2-1/8" (102mm x 102mm x 54mm)



- TP317 for metal clad cable
- UL Listed
- Refer to www.crouse-hinds.com





4" octagon light fixture/fan steel box 4" x 4" x 2-1/8" (102mm x 102mm x 54mm)



4" octagon steel box 4" x 4" x 1-1/2" (102mm x 102mm x 38mm)



4" square deep steel box 4" x 4" x 2-1/8" (102mm x 102mm x 54mm)



4" square standard steel box 4" x 4" x 1-1/2" (102mm x 102mm x 38mm)



4" round new work non-metallic light fixture/ fan box 4" diameter x 2-3/16" (102mm x 56mm)



3-1/2" round new work non-metallic ceiling box 3-1/2" diameter x 2-3/4" (89mm x 70mm)



3-1/2" round old work non-metallic box 4-1/4" O.D. flange, 3-1/2" I.D. x 2-5/8" (108mm O.D., 89mm I.D. x 67mm)



4" round surface mount box 4" diameter x 1-1/2" (102mm x 38mm) Requires SLD6RAD adapter



4" round new work non-metallic box with hanger bar assembly 4" diameter x 2-3/16" (102mm x 56mm)

\*This is a representative list of compatible junction boxes only. Information contained in this literature about other manufacturers' products is from published information made available by the manufacturer and is deemed to be reliable, but has not been verified. Cooper Lighting Solutions makes no specific recommendation on product selection and there are no warranties of performance or compatibility implied. Installer must determine that site conditions are suitable to allow proper installation of the SLD mounting bracket in the box.



### PRODUCT DATA

Cat No.	CRI	ССТ	Lumens	Power (W)	LPW
SLD612827WH	80	2700	1100	14.8	74
SLD612830WH	80	3000	1150	14.8	78
SLD612835WH	80	3500	1200	14.8	81
SLD612840WH	80	4000	1215	14.8	82
SLD612927WH	92	2700	880	14.8	59
SLD612930WH	92	3000	925	14.8	63
SLD612935WH	92	3500	965	14.8	65
SLD612940WH	92	4000	1000	14.8	68

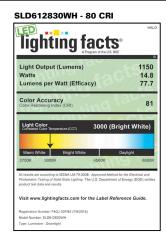
Performance values are presented as typical for the model(s) indicated. Field results may vary.

### LIGHTING FACTS®

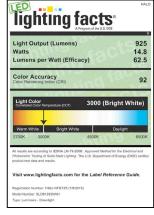
### SLD612827WH - 80 CRI lighting facts Light Output (Lumens) 1100 Watts 14.8 74.32 Lumens per Watt (Efficacy) Color Accuracy 81 Light Color 2700 (Warm White) Warm White Bright White DOB: Appro Visit www.lightingfacts.com for the Label Reference Guide tion Number: F4QJ-ZW8YLN (7/8/2015) lumber: SLD612827WH uminaire - Downlight

### SLD612927WH - 90 CRI

Tighting facts	
Light Output (Lumens) Watts Lumens per Watt (Efficacy)	880 14.8 59.46
Color Accuracy Color Rendering Index (CRI)	92
Light Color Correlated Color Temperature (CCT) 2700 (*	Warm White)
Warm White Bright White 2700K 3000K 4500K	Daylight 6500K
All results are according to IESNA LM-79-2008: Approved Meth Photometric Testing of Solid-State Lighting. The U.S. Departm product test data and results.	
Visit www.lightingfacts.com for the Label R	eference Guide.



### SLD612930WH - 90 CRI



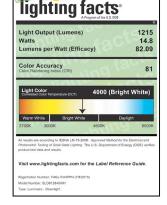
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SLD612835WH - 80 CRI

### SLD612935WH - 90 CRI



# SLD612840WH - 80 CRI



### SLD612940WH - 9 O CKI Variable Characterization of the subol Reference Guide Color Accuracy Color Accuracy Color Rememered Index (CRI) 0 000 Color Accuracy Color Rememered Index (CRI) 0 000 Color Accuracy Color Rememered Index (CRI) 0 000 0 0



Cooper Lighting Solutions 1121 Highway 74 South Peachtree City, GA 30269 P: 770-486-4800 www.cooperlighting.com

Specifications and dimensions subject to change without notice.