

PROJECT: \_\_\_\_\_  
 TYPE: \_\_\_\_\_  
 PRODUCT: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_



SCS Series

## PRODUCT FEATURES

- Intended for Cleanrooms, BSL Labs, Hi-Tech Manufacturing, Laboratories, Food Processing Facilities, Commercial Kitchens, and more
- Surface Cleanroom troffer available in 1x2, 1x4, 2x2, 2x4
- ISO Class 3 (Fed Std. 209E/ Class 1), Certified IP65 per IEC60598 and NSF2 Splash/Non-Food Zone ratings. Suitable for Biosafety Labs rated BSL 1 to 2. BSL Levels 3 & 4 require optional NSF P442 rating under options.
- This product is Made in America and complies with the Buy American Act (BAA) and the Build American, Buy America Act (BABAA)



## ORDERING INFORMATION

Example: SCS14-HC/OC-L440-90C-1C-A-UN

SC	S	/					
<b>Series</b>	<b>Mounting</b> S = Surface	<b>Nominal Size*</b> 12 = 1x2 14 = 1x4 22 = 2x2 24 = 2x4  *Nominal size. Dimensional data on Page 2.	<b>Housing</b> HC = 20Ga. CRS Painted HS = 20Ga. 304 SS Brushed HP = 20Ga. 304 SS Painted HA = 16Ga. Alum. Painted	<b>Frame*</b> INSET (I)* or OVERLAP (O) OC = 18Ga. CRS Painted OS = 18Ga. 304 SS Brushed OP = 18Ga. 304 SS Painted OA = 16Ga. Alum. Painted IE = Extruded Alum** IP = Extruded Alum Painted** IC = 20Ga. CRS Painted* IA = 16Ga. Alum. Painted* IB = 20Ga. 304 SS Brushed* IS = 20Ga. 304 SS Painted*  *Inset frames (I) suitable for Biosafety Labs (BSL) rated 1-2 only. ** Not IP65. N/A with .187 Prismatic Poly. Lens. Inset frames (I) suitable for Biosafety Labs (BSL) rated 1-2 only.	<b>Lumen Output*</b> <b>SCS12-14:</b> L2 = Low L3 = Standard L4 = High CL = Custom Lumen Output**	<b>SCS22-24:</b> L2 = Low L4 = Standard L6 = Medium L8 = High CL = Custom Lumen Output**	<b>Color Temp.</b> 35 = 3500K 40 = 4000K 50 = 5000K

<b>CRI</b> 80C = 80 CRI 90C = 90 CRI	<b>Circuits</b> 1C = 1 Circuit 2C = 2 Circuits*  *Allows for Inboard/Outboard control.	<b>Lens</b> A = .125 Prismatic Acrylic B = .125 Prismatic Poly. C = 156 Prismatic Poly. D = 187 Prismatic Poly.* E = .125 White Frost Poly. G = .140 Prismatic DR Acrylic**  *Cannot be used with IE/IP. ** Not rated for Wet Locations	<b>Voltage</b> 12 = 120V 27 = 277V UN = Universal (120V-277V)	<b>Driver</b> Blank = DMI (0-10V Dimming with 1-100% range) SD2 = Step Dim. Driver (50-100%)* SD3 = Step Dim. Driver (30-70-100%)*  *Consult factory for 347V.	<b>Options</b> FZ1 = Fuse (120V) FZ2 = Fuse (277V) EL1 = Emerg. Batt. LED Low (10W)* EL2 = Emerg. Batt. LED High (20W)* RF = (RIF) Radio Interference Filter (277V) TH = Torx® Head screws (with center pin) IP66 = IP66 Rated (Overlapping frame only) P442 = NSF P442 Certified (Required for BSL 1-4)  *SCS12 Remote Battery. Consult factory for CA Title 24 options. If stored, batteries should be fully recharged every six months and kept between 0°C-25°C to maintain optimal battery capacity.
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**New Star Lighting**

2225 W Pershing Rd, Chicago, IL 60609  
 (773) 847-1400  
 www.newstarlighting.com

Specifications and dimensions are subject to change without notice. For additional options and dimensional details, please consult your New Star Lighting representative.

## SPECIFICATIONS

**HOUSING:** 20-Gauge formed cold rolled steel housing with continuous seam welds. Aluminum and stainless steel options available.

**FRAME:** Inset or overlapping doorframe available in aluminum, cold rolled steel, and stainless steel. Extruded inset door available in anodized aluminum or white painted aluminum. Frame held to housing via aircraft cable.

**LENS:** Acrylic or polycarbonate lens options - smooth side out. Inset and overlapping frame uses a rail hold down system.

**LED:** Available in three color temperatures 3500K, 4000K, and 5000K with maximum 3-step MacAdam variation allowance. Other color temperatures available, consult factory. Minimum 80 CRI standard with optional minimum 90 CRI available. Minimum 50,000 hours with 70% lumen maintenance in a 25°C temperature ambient environment, compliant with IES LM-80 testing standards.

**ELECTRICAL:** 120-277Vac 50/60Hz, constant current driver (<20% THD, >0.9 PF). Standard 0-10V Dimming with 1-100% range.

**FASTENERS:** Stainless steel Phillips flat head fasteners with captive cage nuts. Finish to match doorframe.

**FINISH:** White antimicrobial polyester powder coat finish following multi-stage iron phosphate pretreatment. Stainless steel brushed fixtures are brushed on all exposed room-side surfaces.

**GASKET:** Closed cell EPDM and closed cell silicone gaskets prevent air contaminants from entering the fixture. Gasketing seals lens to doorframe and doorframe to housing.

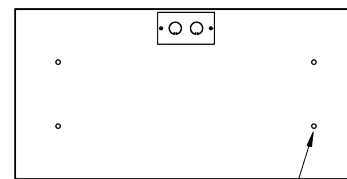
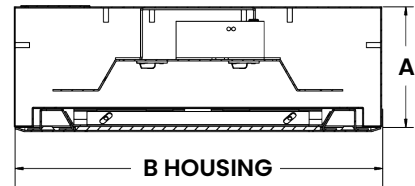
**INSTALLATION:** Surface installation. Hardware by others. Mounting for custom ceilings available, consult factory.

**WARRANTY:** 5 Year Warranty.

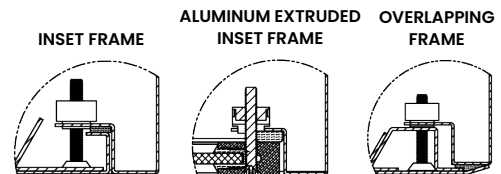
**LABEL:** Fixture is certified to UL standards for Wet Location. Meets standards for ISO3/Class 1 Cleanrooms. IP65 rating per IEC60598, and NSF2 Splash/Non-Food Zone listed. Suitable for Biosafety Labs rated BSL 1 to 2. BSL Levels 3 & 4 require optional NSF P442 rating under options. This product is Made in America and complies with the Buy American Act (BAA) and the Build American, Buy America Act (BABAA).

## DIMENSIONAL DATA

Fixture weight varies and is dependent upon chosen specifications. Consult factory for additional information. Average weight of the SCS14 is 27lb. Average weight of the SCS24 is 48lb.



SCS12: (4) Ø.31" HOLE  
 SCS14: (6) Ø.31" HOLE  
 SCS22: (4) Ø.31" HOLE  
 SCS24: (6) Ø.31" HOLE



	A	B
SCS12	3.94"	12.00" x 24.07"
SCS14	3.94"	12.00" x 48.07"
SCS22	3.94"	24.00" x 24.07"
SCS24	3.94"	24.00" x 48.07"



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## PERFORMANCE DATA

\*Displayed information is with a .125 Prismatic Polycarbonate. Data is with 80 CRI chip. LEDs are frequently updated therefore values may change without notice.

MODEL	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/w)	INPUT POWER (W)
SCS12	L2 = Low	3500K	2875	115	25
		4000K	3000	120	25
		5000K	3125	125	25
	L3 = Standard	3500K	4180	110	38
		4000K	4370	115	38
		5000K	4560	120	38
	L4 = High	3500K	5500	110	50
		4000K	5750	115	50
		5000K	6000	120	50
SCS14	L2 = Low	3500K	5750	115	50
		4000K	6000	120	50
		5000K	6250	125	50
	L3 = Standard	3500K	8250	110	75
		4000K	8625	115	75
		5000K	9000	120	75
	L4 = High	3500K	11000	110	100
		4000K	11500	115	100
		5000K	12000	120	100
SCS22	L2 = Low	3500K	3000	120	25
		4000K	3125	125	25
		5000K	3250	130	25
	L4 = Standard	3500K	6000	120	50
		4000K	6250	125	50
		5000K	6500	130	50
	L6 = Medium	3500K	8625	115	75
		4000K	9000	120	75
		5000K	9375	125	75
	L8 = High	3500K	11500	115	100
		4000K	12000	120	100
		5000K	12500	125	100



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## PERFORMANCE DATA CONTINUED

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MODEL	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/w)	INPUT POWER (W)
SCS24	L2 = Low	3500K	6000	120	50
		4000K	6250	125	50
		5000K	6500	130	50
	L4 = Standard	3500K	12000	120	100
		4000K	12500	125	100
		5000K	13000	130	100
	L6 = Medium	3500K	17250	115	150
		4000K	18000	120	150
		5000K	18750	125	150
	L8 = High	3500K	23000	115	200
		4000K	24000	120	200
		5000K	25000	125	200



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