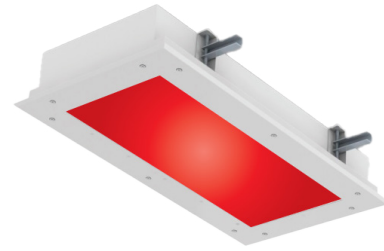


PROJECT: _____
 TYPE: _____
 PRODUCT: _____
 APPROVED BY: _____



SCR

PRODUCT FEATURES

- Intended for Vivariums, Cleanrooms, Laboratories, Research Facilities and more
- Narrow-spectrum 630nm red LEDs. Troffer can have all red LEDs or have alternating rows of red and white LEDs
- Surface or recessed ceiling mount; grid or flange
- Cleanroom troffer available in a 1x2, 1x4, 2x2, 2x4
- Fixture is certified to UL standards for Wet Location under covered ceiling. IP65 rated per IEC60598. Meets ISO 3/Class 1 Cleanroom Standards. Suitable for Biosafety Labs rated BSL 1 to 4 with NSF Protocol P442 rating.
- This product is Made in America and complies with the Buy American Act (BAA)

ORDERING INFORMATION

Example: STF24-HC/OC-L4401C-A-UN



SC					
Series	Mounting S = Surface R = Recessed (Grid/Flange)	Nominal Size 12 = 1x2 14 = 1x4 22 = 2x2 24 = 2x4 *Nominal size. Dimensional data on Page 2 and 3.	Housing HC = 20Ga. CRS Painted HS = 20Ga. SS Brushed HP = 20Ga. SS Painted HA = 16Ga. Alum. Painted	Frame INSET (I) or OVERLAP (O) OC = 18Ga. CRS Painted OS = 18Ga. SS Brushed OP = 18Ga. SS Painted OA = 16Ga. Alum. Painted IE = Extruded Alum* IP = Extruded Alum Painted* IC = 20Ga. CRS Painted IA = 16Ga. Alum Painted IB = 20Ga. SS Brushed IS = 20Ga. SS Painted *Not IP65. N/A with .187 Prismatic Poly. Lens.	SCR12-14: R1W2 = 1 Red/2 White R2W1 = 2 Red/1 White RD2 = 2 Red LEDs RD3 = 3 Red LEDs SCR22-24: R2W2 = 2 Red/2 White R2W4 = 2 Red/4 White R2W6 = 2 Red/6 White R4W2 = 4 Red/2 White R6W2 = 6 Red/2 White RD2 = 2 Red LEDs RD4 = 4 Red LEDs RD6 = 6 Red LEDs *Subject to change. Performance Data on Page 3.

Color Temp. 0 = No White LEDs 35 = 3500K 40 = 4000K 50 = 5000K	Circuits 1C = 1 Circuit* 2C = 2 Circuits** *N/A with Red and White configuration. **If only red is specified, it allows for inboard/outboard control. Red and White circuits will be independently powered.	Lens 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 H = .125 White Frost Acrylic *Cannot be used with IE/IP.	Voltage 12 = 120V 27 = 277V 34 = 347V UN = Universal (120V-277V)	Options DM = 0-10V dimming with 10-100% range* DM1 = 0-10V dimming with 1-100% range* FZ1 = Fuse (120V) FZ2 = Fuse (277V) SD2 = Step Dim. Module (50-100%)** SD3 = Step Dim. Module (30-70-100%)** EL1 = Emerg. Batt. LED Low (10W)*** EL2 = Emerg. Batt. LED High (20W)*** EMI = (EMI) Electromagnetic Interference Filter TH = Torx® head screws with center pin RM = Row Mount* 90C = 90 CRI (White LED only) TGG = Triple Gasketing (Grid) TGF = Triple Gasketing (Flange) IP66 = IP66 Rated (Overlapping frame only) *Dimming for red and white circuits unless otherwise specified. **Consult factory for 347V. ***SCR12 Remote Battery. Consult factory for CA Title 24 options. ^Joiner bracket supplied. Fixture dimensions subject to change. Consult factory for custom wiring or knockouts.
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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 (cold rolled steel, stainless steel and 16 gauge alum) and overlapping frame uses a rail hold down system.

LED: Available with 630nm red LEDs only or alternating rows of red and white LEDs. White LEDs 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. Note, red LED boards will be installed every other row unless otherwise specified.

ELECTRICAL: Red LEDs and White LEDs are separately circuited for individual control. 0-10V dimming available with 10-100% range and 1-100% range on red and white circuits. Must specify dimming under options.

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

FINISH: White antimicrobial powder coat finish following multistage 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 contaminations from entering the fixture. Gasketing seals lens to doorframe and doorframe to housing. Optional triple gasketing, must specify Grid or Flange installation. Triple gasketing not applicable with Surface installation.

INSTALLATION: Surface or recessed mounting. Recessed mounting accommodates Grid and Flange installations. Recessed fixtures will be supplied with adjustable swing arms that can be used for Flange applications or taped to the side for Grid applications. Recessed install compatible with 1-1/2" and 15/16" Grid systems. Mounting for custom ceilings available, consult factory. Hardware by others.

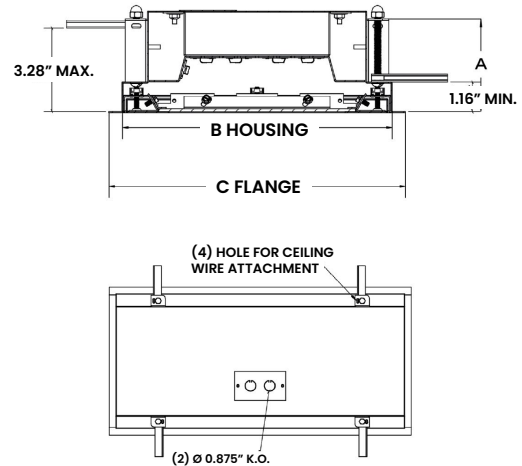
WARRANTY: Limited five (5) year warranty.

LABEL: Fixture is certified to UL standards for Wet Location under covered ceiling. IP65 rated per IEC60598. Meets ISO 3/Class 1 Cleanroom Standards. Suitable for Biosafety Labs rated BSL 1 to 4 with NSF Protocol P442 rating.

DIMENSIONAL DATA

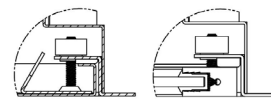
*Fixture weight varies and is dependent upon chosen specifications. Consult factory for additional information. Average weight of the SC14 is 27lb. Average weight of the SC24 is 48lb.

RECES:

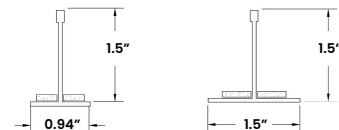
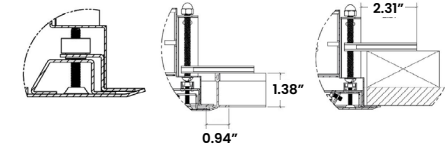


	A	B	C	REC. CEILING CUT-OUT
SCR12	4.00"	10.64" x 22.64"	11.69" x 23.69"	10.88" x 22.88"
SCR14	4.00"	10.64" x 46.64"	11.69" x 47.69"	10.88" x 46.88"
SCR22	4.00"	22.64" x 22.64"	23.69" x 23.69"	22.88" x 22.88"
SCR24	4.00"	22.64" x 46.64"	23.69" x 47.69"	22.88" x 46.88"

IC FRAME DETAIL IE FRAME DETAIL



OC FRAME DETAIL SCR (W/OC FRAME RECESSED GRID) SCR (W/OC FRAME RECESSED FLANGE)

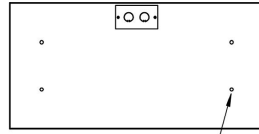
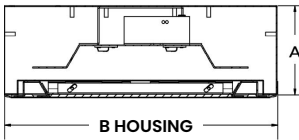


GRID COMPATIBILITY:

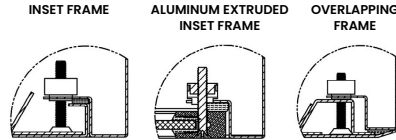
- SCR12: Spaced at 12" x 24" Centers
- SCR14: Spaced at 12" x 48" Centers
- SCR22: Spaced at 24" x 24" Centers

DIMENSIONAL DATA CONT.

SURFACE DIMENSIONAL DATA



SCS12: (4) Ø0.31" HOLE
 SCS14: (6) Ø0.31" HOLE
 SCS22: (4) Ø0.31" HOLE
 SCS24: (6) Ø0.31" HOLE



	A	B
SCS12	3.49"	12.00" x 24.07"
SCS14	3.49"	12.00" x 48.07"
SCS22	3.49"	24.00" x 24.07"
SCS24	3.94"	24.00" x 48.07"

PERFORMANCE DATA*

*Displayed information is with .125 Prismatic Polycarbonate lens and 80 CRI white LED chip. LEDs are frequently updated therefore values may change without notice.

MODEL	OUTPUT	LUMENS DELIVERED	EFFICACY (lm/W)	INPUT POWER (W)
SC12	RD2 = 2 Red LEDs	700	36	20
	RD3 = 3 Red LEDs	1050	36	30
SC14	RD2 = 2 Red LEDs	1400	36	40
	RD3 = 3 Red LEDs	2100	36	60
SC22	RD2 = 2 Red LEDs	825	43	19
	RD4 = 4 Red LEDs	1675	43	39
	RD6 = 6 Red LEDs	2500	43	58
SC24	RD2 = 2 Red LEDs	1650	42	39
	RD4 = 4 Red LEDs	3250	42	77
	RD6 = 6 Red LEDs	4850	42	116



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PERFORMANCE DATA CONT.*

MODEL	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/w)	INPUT POWER (W)
SC12	RIW2 1 Red/2 White	3500K	2875	115	25
		4000K	3000	120	25
		5000K	3125	125	25
		RED	350	35	10
	R2W1 2 Red/1 White	3500K	1438	115	12.5
		4000K	1500	120	12.5
		5000K	1563	125	12.5
		RED	700	36	20
SC14	RIW2 1 Red/2 White	3500K	5750	115	50
		4000K	6000	120	25
		5000K	6250	125	50
		RED	700	36	20
	R2W1 2 Red/1 White	3500K	2875	115	25
		4000K	3000	120	25
		5000K	3125	125	25
		RED	1400	36	40
SC22	R2W2 2 Red/2 White	3500K	3000	120	25
		4000K	3125	125	25
		5000K	3250	130	50
		RED	825	43	19
	R2W4 2 Red/4 White	3500K	6000	120	50
		4000K	6250	125	50
		5000K	6500	130	50
		RED	825	43	19
	R2W6 2 Red/6 White	3500K	8625	115	75
		4000K	9000	120	75
		5000K	9375	125	75
		RED	825	43	19
	R4W2 4 Red/2 White	3500K	3000	120	25
		4000K	3125	125	25
		5000K	3250	130	25
		RED	1675	43	39
	R6W2 2 Red/6 White	3500K	3000	120	25
		4000K	3125	125	25
		5000K	3250	130	25
		RED	2500	43	58



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PERFORMANCE DATA CONT.*

MODEL	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/w)	INPUT POWER (W)
SC24	R2W2 2 Red/2 White	3500K	6000	120	50
		4000K	6250	125	50
		5000K	6500	130	50
		RED	1650	42	39
	R2W4 2 Red/4 White	3500K	12000	120	100
		4000K	12500	125	100
		5000K	13000	130	100
		RED	1650	42	39
	R2W6 2 Red/6 White	3500K	17250	115	150
		4000K	18000	120	50
		5000K	18750	125	50
		RED	1650	42	77
	R4W2 4 Red/2 White	3500K	6000	120	50
		4000K	6250	125	50
		5000K	6500	130	50
		RED	3250	42	77
	R6W2 2 Red/6 White	3500K	6000	120	50
		4000K	6250	125	50
		5000K	6500	130	50
		RED	4850	42	116



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