

SIMPLESEAL™ NARROW SPECTRUM

CSEFL SERIES – RED & WHITE LED – LF EXTENDED FLANGE

PROJECT INFORMATION

Job Name _____

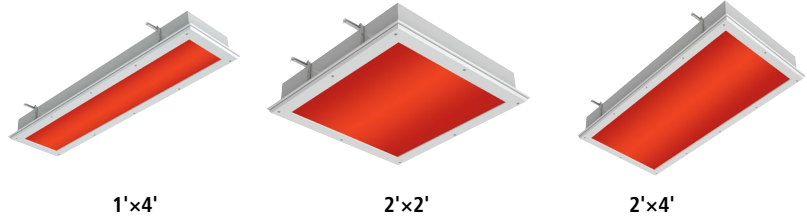
Fixture Type _____

Catalog Number _____

Approved by _____

PRODUCT FEATURES:

- » Narrow-spectrum 630nm red LED circuit provides only high-purity light for spectrally-sensitive applications.
- » High-output, high-CRI white LED circuit provides visual acuity and accurate color rendition.
- » Diffused high-efficiency lens for reduced glare
- » One-piece seam welded housing with extended flange assures seal against rough ceilings
- » One-piece lapping door provides air-tight integrity of luminaire
- » Flanged for drywall or plaster ceilings— Not suitable for grid ceilings



SPECIFICATIONS:

HOUSING: 20-gauge CRS. Hole-free one-piece seam welded construction. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Housing flange is 18-gauge stainless steel or aluminum with mitered and welded corners. Flange finish matches doorframe except when PAH Housing Option (flange is painted white aluminum).

DOORFRAME: Heavy duty extruded marine grade aluminum with anodized finish. Continuous angle lens retention system. Mechanical guide for doorframe fastener alignment. Doorframe secured to housing with stainless steel aircraft cables and captive flush mounted Phillips head stainless steel fasteners. (12) for 1x4, (10) for 2x2, (14) for 2x4; thumb screws optional. Doorframe Gasket: One-piece closed cell extruded nitrile gasket seals doorframe to housing flange.

OPTICS: Symmetric optic includes diffused, impact-resistant acrylic lens.

ELECTRICAL: Replaceable white mid-power LED array. Available 3500K, 4000K and 5000K color temperatures with maximum 3-step MacAdam variation allowance. Minimum 82 CRI, R9>0. 630nm red mid-power LED array (16nm FWHM bandwidth). 120/277VAC or 347VAC, 50/60Hz electrical input with replaceable high power factor electronic, constant-current driver (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities on white and red circuit (non dim-to-dark with 347V). 495 µA max. source current per circuit. White circuit and red circuit can be independently powered and dimmed.

INSTALLATION: Adjustable swing-out mounting brackets standard. See Options for continuous row mounting and plaster frames. Fixture designed for hard ceilings only.

Not suitable for grid ceilings.

WARRANTY: Limited five (5) year warranty.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. Certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved. Suitable for BSL 1-4 laboratories. Build America, Buy America Act compliant.



NOT FOR GRID CEILING INSTALLATIONS

ORDERING INFORMATION (Ex: CSEFL22-23RD-DIM1-DV-5F-2H-SYM)

Model	Lamp Type	Lamp Color	Driver Type	Voltage	Doorframe Option	Housing	Optics	Options	Accessories
			DIM1						
					SYM				
Model			Lamp Color ‡			Housing Options			
CSEFL14 1'x4'			35K8 3500K, 82 CRI			2H 20-Ga CRS (STD)			
CSEFL22 2'x2'			40K8 4000K, 82 CRI			5H 20-Ga Type 304 SS			
CSEFL24 2'x4'			50K8 5000K, 82 CRI			XH 20-Ga Type 316 SS			
						PAH .050" Painted Aluminum			
Lamp Type			Driver Type			Optics			
1'x4'			DIM1 0-10V Dimming to 1%			SYM Symmetric, Diffused DR Acrylic			
23R/45L	23 Watt Red/45 Watt White LED								
23R/67L	23 Watt Red/67 Watt White LED								
23R	23 Watt Red LED								
2'x2'			Voltage						
23RD/45LD	23 Watt Red/45 Watt White LED		120 120 Volts						
23RD/67L	23 Watt Red/67 Watt White LED		277 277 Volts						
23RD	23 Watt Red LED		347 347 Volts						
			DV 120-277 Volts						
2'x4'			Doorframe/Flange Options						
23RD/67L	23 Watt Red/67 Watt White LED		PAF .063" Painted Fabricated Aluminum						
23RD/90L	23 Watt Red/90 Watt White LED		5F 20-Ga/18-Ga Type 304 SS						
23RD/135L	23 Watt Red/135 Watt White LED		XF 20-Ga/18-Ga Type 316 SS						
46R	46 Watt Red LED								
							Options		
							LEL▲ 10W LED Emergency Battery Backup		
							NLW* 2700K White LED Night Light		
							NLA* Amber LED Night Light		
							FS Fuse & Holder		
							FN Food Zone/Non-Contact		
							TS Stainless Steel Doorframe Thumb Screws		
							HJ Sealed Wireway		
							RF Radio Frequency Filter		
							(voltage-specific selection required; n/a 347V)		
							RM Continuous Row Mounting		
							(consult factory for ceiling cut-out)		
							TH 1/2" Trade Size Threaded Hub		
							Accessories		
							PF Plaster Frame		
							‡ n/a for all-red configurations		
							▲ n/a with 347V; 0°C/32°F min. operating environment		
							▼ n/a with 347 input		



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PERFORMANCE

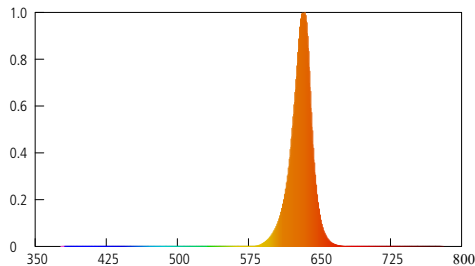
Red/White LED		Red Circuit			White Circuit			White/Red Estd. L ₇₀ LED Life (hrs)
Size	Lamp Code	Delivered Lumens @ 25°C (lm)	Efficacy (lm/W)	Input Power (W)	Delivered Lumens @ 25°C (lm)	Efficacy (lm/W)	Input Power (W)	
1' x 4'	23R/45L-35K8	954	34	28	5,140	105	49	>72,000 / >60,000
	23R/45L-40K8	954	34	28	5,230	107	49	>72,000 / >60,000
	23R/45L-50K8	954	34	28	5,439	111	49	>72,000 / >60,000
	23R/67L-35K8	954	34	28	7,874	109	72	>72,000 / >60,000
	23R/67L-40K8	954	34	28	8,011	111	72	>72,000 / >60,000
	23R/67L-50K8	954	34	28	8,332	116	72	>72,000 / >60,000
2' x 2'	23RD/45LD-35K8	1,021	36	28	5,461	111	49	>72,000 / >60,000
	23RD/45LD-40K8	1,021	36	28	5,556	113	49	>72,000 / >60,000
	23RD/45LD-50K8	1,021	36	28	5,779	118	49	>72,000 / >60,000
	23RD/67L-35K8	1,021	36	28	8,365	116	72	>72,000 / >60,000
	23RD/67L-40K8	1,021	36	28	8,511	118	72	>72,000 / >60,000
	23RD/67L-50K8	1,021	36	28	8,852	123	72	>72,000 / >60,000
2' x 4'	23RD/67L-35K8	1,171	53	22	9,171	127	72	>72,000 / >60,000
	23RD/67L-40K8	1,171	53	22	9,331	130	72	>72,000 / >60,000
	23RD/67L-50K8	1,171	53	22	9,704	135	72	>72,000 / >60,000
	23RD/90L-35K8	1,171	53	22	11,784	121	98	>72,000 / >60,000
	23RD/90L-40K8	1,171	53	22	11,990	124	98	>72,000 / >60,000
	23RD/90L-50K8	1,171	53	22	12,470	129	98	>72,000 / >60,000
	23RD/135L-35K8	1,171	53	22	16,705	114	147	>72,000 / >60,000
	23RD/135L-40K8	1,171	53	22	16,997	116	147	>72,000 / >60,000
23RD/135L-50K8	1,171	53	22	17,677	120	147	>72,000 / >60,000	

Red LED

Size	Lamp Type	Initial Delivered Lumens		Input Power Red (W)	Estd. L ₇₀ LED Life (hrs)
		Red Lamp @ 25°C (lm)	Efficacy - Red (lm/W)		
1' x 4'	23R	954	34	28	36,000
2' x 2'	23RD	1,021	36	28	36,000
2' x 4'	46R	2,042	36	56	36,000

Subject to change without notice. Visit www.kenall.com for .ies files and additional information.

Red Circuit Spectral Power Distribution (SPD)



Purity: 1.0
 UV: 0.0000% (<390nm)
 Radiant Flux < 575nm: 0.000%
 Bandwidth: 16nm
 Peak Wavelength: 630nm



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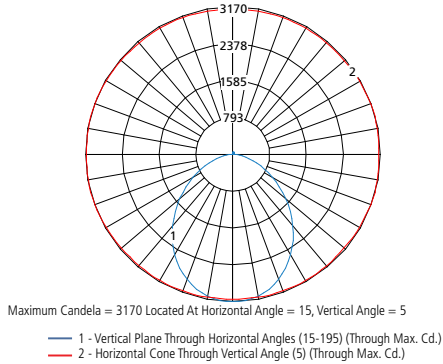
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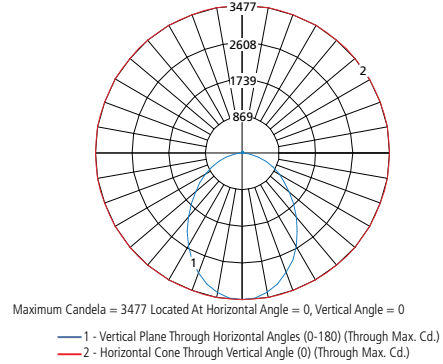
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PERFORMANCE

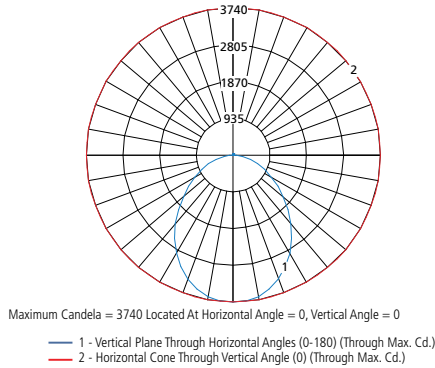
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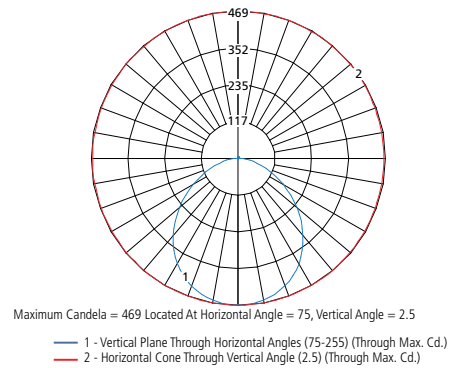
Model: CSEFL22-23RD/67L-40K8-DIM1-120-2F-2H-SYM (White Mode)



Model: CSEFL24-23RD/67L-40K8-DIM1-120-2F-2H-SYM (White Mode)

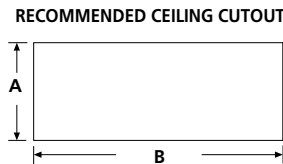
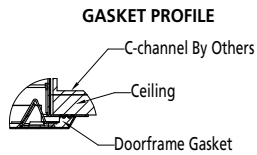
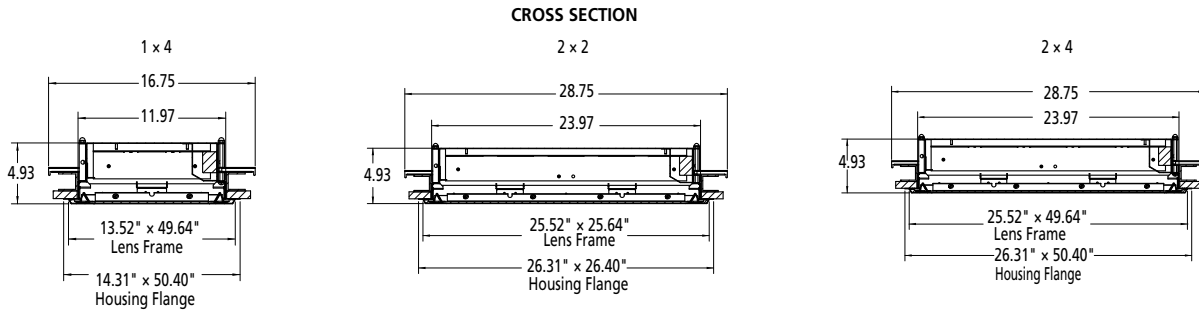


Model: CSEFL24-23RD/67L-40K8-DIM1-120-2F-2H-SYM (Red Mode)*



*Luminous intensity of "red" mode is equal across all product sizes

DIMENSIONAL DATA



CEILING CUT-OUT DIMENSIONS

	A	B
1x4	12.13	48.25
2x2	24.13	24.25
2x4	24.13	48.25

