

SIMPLESEAL™ NARROW SPECTRUM CSEDI SERIES – RED & WHITE LED – INSET DOOR

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 inset doorframe, secured to housing with aircraft cables
- » Suitable for universal installation into 1.0" and 1.5" grid or flange (drywall) ceilings



1'x4'

2'x2'

2'x4'

SPECIFICATIONS

HOUSING: Standard 24-gauge (optional 20-gauge) cold rolled steel, hole-free, one-piece, seam-welded construction. 18-gauge housing flange with mitered and welded corners. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

DOORFRAME: 18-gauge CRS. One-piece inset-style construction with welded corners. Gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Doorframe secured to housing with stainless steel aircraft cables and captive, flush-mounted Phillips-head fasteners. Closed-cell silicone gasket seals doorframe to housing.

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 with dim-to-dark capabilities on white and red circuit (non dim-to-dark with 347V; 495 µA maximum source current per circuit). Optional 0-10V dimming with 0.1-100% range and dim-to-dark capabilities via eldoLED SOLdrive series driver (n/a 347V input; ≤0.5V required from dimming control for dim-to-dark operation; 600µA max. source current). White circuit and red circuit can be independently powered and dimmed.

INSTALLATION: Non-IC recessed ceiling mounting into grid and flange application types. Flange installation utilizes included adjustable swing-out mounting brackets. Grid installation suitable for 1" and 1.5" T-bar ceilings. Universal installation into grid or flange (drywall) ceiling applications. See Options for continuous row mounting and install frames.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please go to www.kenall.com

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. Meets K230 Leakage Standard for luminaire leakage in pressurized environments and FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Suitable for BSL 1-2 laboratories. Suitable for EU GMP Grade A cleanrooms. CSEDI is participating in Declare. Build America, Buy America Act compliant.



ORDERING INFORMATION (Ex: CSEDI-24-23RD/67L-40K8-DIM1-DV-2F-2H-SYM)

Model	Size	Lamp Power	Lamp Color / CRI	Driver	Voltage	Doorframe	Housing	Optics	Options
CSEDI								SYM	
Size				Driver Type		Housing Options			
14	1'x4'			DIM1	0-10V Dimming to 1%	4H	24-Ga CRS (STD)		
22	2'x2'			DIM01	0-10V Dimming to 0.1% (n/a with 347V)	2H	20-Ga CRS		
24	2'x4'					5H	20-Ga Type 304 SS		
Lamp Power				Voltage		Optics			
	1'x4'			DV	120-277VAC, 50/60Hz	SYM Symmetric, Diffused DR Acrylic			
	23R/45L	23 Watt Red/45 Watt White LED		120	120VAC				
	23R/67L	23 Watt Red/67 Watt White LED		277	277VAC				
	23R	23 Watt Red LED		347	347VAC				
2'x2'				Doorframe Options		Options			
	23RD/45LD	23 Watt Red/45 Watt White LED		2F	18-Ga CRS (STD)	LEL ▲	10W Emergency Battery Pack		
	23RD/67L	23 Watt Red/67 Watt White LED		5F	20-Ga Type 304 SS Brushed	20KV	20KV/KA Surge Protection per IEEE/ANSI C62.41.2 Cat. A		
	23RD	23 Watt Red LED		AF	Anodized Aluminum	AMF ▼	Antimicrobial Finish		
				PAF	Painted Fabricated Aluminum	FS	Fuse & Holder		
2'x4'						HJ	Sealed Wireway		
	23RD/67L	23 Watt Red/67 Watt White LED				RF •	Radio Frequency Filter		
	23RD/90L	23 Watt Red/90 Watt White LED				RM †	Continuous Row Mounting		
	23RD/135L	23 Watt Red/135 Watt White LED				Accessories			
	46R	46 Watt Red LED				IF *† Install Frame			
Lamp Color / CRI‡									
	35K8	3500K / 82 CRI							
	35K8	3500K / 90 CRI							
	40K8	4000K / 82 CRI							
	40K8	4000K / 90 CRI							
	50K8	5000K / 82 CRI							
	50K8	5000K / 90 CRI							

* Add .375" to ceiling cut out dimensions
 † Only available when installed in drywall ceilings (flange mount), Consult factory for ceiling layout assistance
 • Voltage specific selection required. n/a with 23R/67L lamp on 1'x4' and 2'x2' sizes
 ▲ n/a with 347V input. 0°C/32°F min. ambient. Wired to white LED when red/white lamping is selected.
 ‡ Not applicable for all-red configurations
 ▼ Applied only to exposed painted surfaces of luminaire (not available on stainless steel doorframes)



www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA
 This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Act (TAA), Build America, Buy America Act (BABA), and others. It may be covered by patents found at www.kenall.com/patents. Content of specification sheets is subject to change; please consult www.kenall.com for current product details. ©2025 Kenall Mfg. Co.

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CSEDI SERIES – TECHNICAL DATA

PERFORMANCE

Red/White LED

Size	Lamp Code	Red Circuit			White Circuit			White/Red Estd. L ₇₀ LED Life (hrs)
		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	1,019	46	22	5,403	110	49	36,000 / 80,000
	23R/45L-40K8	1,019	46	22	5,587	114	49	36,000 / 80,000
	23R/45L-50K8	1,019	46	22	5,810	119	49	36,000 / 80,000
	23R/67L-35K8	1,019	46	22	8,277	115	72	36,000 / 80,000
	23R/67L-40K8	1,019	46	22	8,559	119	72	36,000 / 80,000
	23R/67L-50K8	1,019	46	22	8,901	124	72	36,000 / 80,000
2' x 2'	23RD/45LD-35K8	993	45	22	5,226	107	49	36,000 / 80,000
	23RD/45LD-40K8	993	45	22	5,404	110	49	36,000 / 80,000
	23RD/45LD-50K8	993	45	22	5,620	115	49	36,000 / 80,000
	23RD/67L-35K8	993	45	22	8,005	111	72	36,000 / 80,000
	23RD/67L-40K8	993	45	22	8,278	115	72	36,000 / 80,000
	23RD/67L-50K8	993	45	22	8,609	120	72	36,000 / 80,000
2' x 4'	23RD/67L-35K8	1,108	50	22	8,677	121	72	36,000 / 80,000
	23RD/67L-40K8	1,108	50	22	8,828	123	72	36,000 / 80,000
	23RD/67L-50K8	1,108	50	22	9,181	128	72	36,000 / 80,000
	23RD/90L-35K8	1,108	50	22	10,970	112	98	36,000 / 60,000
	23RD/90L-40K8	1,108	50	22	11,344	116	98	36,000 / 60,000
	23RD/90L-50K8	1,108	50	22	11,798	120	98	36,000 / 60,000
	23RD/135L-35K8	1,108	50	22	15,550	106	147	36,000 / 60,000
	23RD/135L-40K8	1,108	50	22	16,081	109	147	36,000 / 60,000
	23RD/135L-50K8	1,108	50	22	16,724	114	147	36,000 / 60,000

90 CRI MULTIPLIER

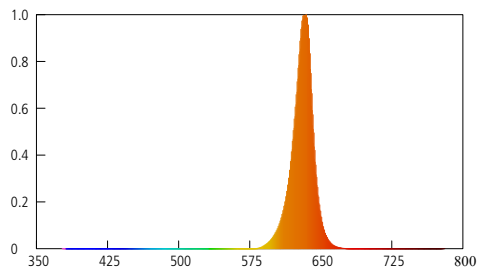
Lamp Color / CCT	Lumen Multiplier
30K9	0.83
35K9	0.87
40K9	0.89
50K9	0.89

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	1,019	46	22	36,000
2' x 2'	23RD	993	45	22	36,000
2' x 4'	46R	2,215	50	44	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: 0.0000%
 Bandwidth: 16nm
 Peak Wavelength: 630nm



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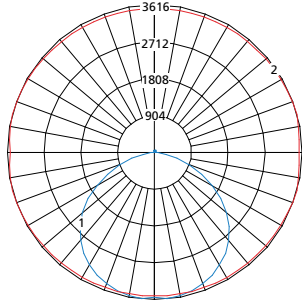
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CSEDI SERIES – TECHNICAL DATA

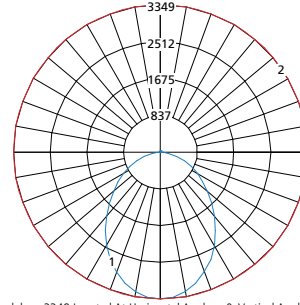
PERFORMANCE

Model: CSEDI14-23R/67L-40K8-DIM1-120-2F-2H-SYM (White Mode)



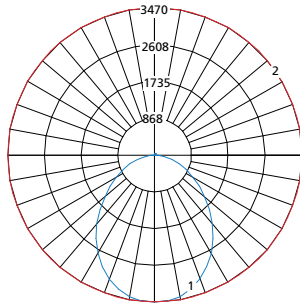
Maximum Candela = 3616 Located At Horizontal Angle = 15, Vertical Angle = 5
 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

Model: CSEDI22-23RD/67L-40K8-DIM1-120-2F-2H-SYM (White Mode)



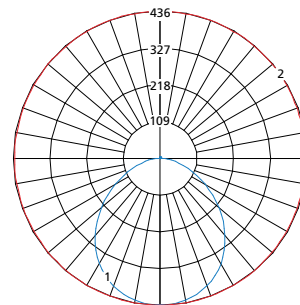
Maximum Candela = 3349 Located At Horizontal Angle = 0, Vertical Angle = 0
 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: CSEDI24-23RD/67L-40K8-DIM1-120-2F-2H-SYM (White Mode)



Maximum Candela = 3470 Located At Horizontal Angle = 0, Vertical Angle = 0
 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

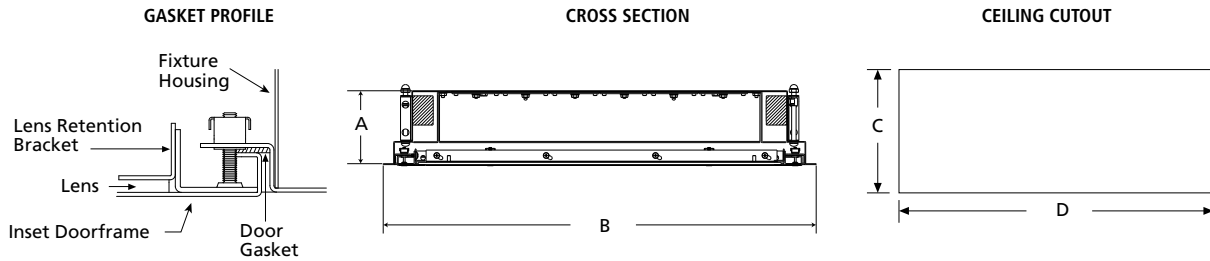
Model: CSEDI24-23RD/67L-40K8-DIM1-120-2F-2H-SYM (Red Mode)*



Maximum Candela = 436 Located At Horizontal Angle = 75, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (75-255) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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

DIMENSIONAL DATA



DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
1x4	4.20	11.75 x 47.75	10.85	46.85
2x2	4.20	23.75 x 23.75	22.85	22.85
2x4	4.20	23.75 x 47.75	22.85	46.85

* Add .375" to ceiling cut out dimensions when IF Option is specified



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