

SIMPLESEAL™

CSEDI SERIES using Indigo-Clean Technology

PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

PRODUCT FEATURES:

- » Provides environmental disinfection and effective, efficient lighting performance via visible LED light
- » Dual-Mode Indigo-Clean Technology is independently tested to kill 94% of SARS CoV-2 and Influenza-A***, in addition to MRSA
- » Single-Mode Indigo-Clean Technology is independently tested to kill harmful bacteria, such as Staph*, including MRSA**
- » Suitable for universal installation into 1" and 1.5" grid and flange (drywall) ceilings



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: (Single- and Dual-Mode ICT) Serviceable mid-power white and 405nm Indigo LED array. Available 3200K, 3700K and 4300K color temperatures with 3-step MacAdam variation allowance. Minimum 82 CRI standard. 120-277VAC and 347VAC electrical input with serviceable high power factor electronic, constant-current drivers (<10% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities (non-dim-to-dark on Dual-Mode ICT). 495µA maximum source current. **Single-Mode ICT** provides a single, white disinfection operational mode. **Dual-Mode ICT** provides two operational modes based on room occupancy. White Disinfection Mode is a white LED array for ambient lighting plus a simultaneous low-power 405nm LED array for low-level, continuous and safe environmental disinfection. Indigo Disinfection Mode is a higher-level 405nm array for continuous safe environmental disinfection during periods of room vacancy. The operational mode is determined via internal low-voltage device based upon the input signal provided by an external control device/system, such as the IC150 product. Luminaires dimming is overridden in this operational state. Refer to the [Kenall Dual-Mode ICT Control Application Guide](#) for further description.

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" (2.54cm) and 1.5" (3.81cm) 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. Suitable for biosafety labs rated BSL 1 and 2. FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Suitable for EU GMP Grade A cleanrooms. EPA Est. No. 99283-WI-1. CSEDI is participating in Declare.

* Per independent lab report #5GS-09S17036476. Contact Kenall for a copy of this report.

**Antimicrobial Activity of a Continuous Visible Light Disinfection System by Rutala, et al, ID Week 2016.

***Refer to www.indigo-clean.com for details.



ORDERING INFORMATION (Ex: CSEDI-24-46I/110C-43K8-DIM1-DV-2F-2H-SYM)

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options	Accessories
CSEDI				DIM1				SYM		
Size		Lamp Power		Lamp Color			Optics			
14 1'x4'		1'x4'		32K8 3200K / 82 CRI min.			SYM Symmetric, Diffused DR Acrylic			
22 2'x2'		55C 55W Single-Mode ICT		37K8 3700K / 82 CRI min.			Options			
24 2'x4'		82C 82W Single-Mode ICT		43K8 4300K / 82 CRI min.			LEL † 8.4 W Emergency Battery Pack			
		110C 110W Single-Mode ICT		Driver Type			AMF ‡ Antimicrobial Finish			
		23I/55C 55W Dual-Mode ICT		DIM1 0-10V Dimming to 1%			FS Fuse & Holder			
		34I/82C 82W Dual-Mode ICT		Voltage			HJ Sealed Wireway			
		46I/110C 110W Dual-Mode ICT		DV 120-277VAC, 50/60Hz			RM † Continuous Row Mounting			
				120 120VAC			2C • Two Circuit Wiring			
		2'x2'		277 277VAC			Accessories			
		55CD 55W Single-Mode ICT		347 347VAC			IF *† Install Frame			
		82C 82W Single-Mode ICT		Doorframe Options						
		110C 110W Single-Mode ICT		5F 20-Ga Type 304 SS Brushed						
		23I/55CD 55W Dual-Mode ICT		2F 18-Ga CRS (STD)						
		34I/82C 82W Dual-Mode ICT		AF Anodized Aluminum						
		46I/110C 110W Dual-Mode ICT		PAF Painted Fabricated Aluminum						
		2'x4'		Housing Options						
		55CD 55W Single-Mode ICT		4H 24-Ga CRS (STD)						
		82C 82W Single-Mode ICT		2H 20-Ga CRS						
		110C 110W Single-Mode ICT		5H 20-Ga Type 304 SS						
		165C 165W Single-Mode ICT		PAH .050" Painted Aluminum						
		23I/55CD 55W Dual-Mode ICT								
		34I/82C 82W Dual-Mode ICT								
		46I/110C 110W Dual-Mode ICT								
		68I/165C 165W Dual-Mode ICT								

Click [HERE](#) for CSEDI-ICT 'Fast Track' Ordering Options
Ships in 10 days

ACCESSORIES ORDERED SEPARATELY
IC150 External Room Control System for Dual-Mode ICT Products
 (click [here](#) for Specifications)

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PERFORMANCE

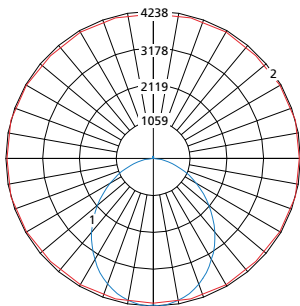
Technology	Length	Lamp Code	Lumen Output by Color (lm) ¹			Efficacy (lm/W)	Power Consumption ²			Estd L70 LED Life (Hrs)
			32K8	37K8	43K8		Occupied (W)	LPD (W)	Unoccupied (W)	
Single-Mode ICT	1 x 4	55C	5,254	5,390	5,445	86 - 89	61	51	n/a	80,000
		82C	7,933	8,139	8,222	85 - 88	93	77		
		110C	9,776	10,030	10,132	80 - 83	122	101		
	2 x 2	55CD	5,081	5,213	5,266	83 - 86	61	51		
		82C	7,673	7,872	7,952	83 - 86	93	77		
		110C	9,456	9,701	9,800	78 - 80	122	101		
	2 x 4	55CD	6,167	6,327	6,392	106 - 110	58	48		
		82C	7,576	7,773	7,852	81 - 84	93	77		
		110C	9,337	9,579	9,677	77 - 79	122	101		
		165C	13,558	13,910	14,052	74 - 77	183	152		
Dual-Mode ICT	1 x 4	23I/55C	5,254	5,390	5,445	86 - 89	61	51	29	80,000
		34I/82C	7,933	8,139	8,222	85 - 88	93	77	44	
		46I/110C	9,776	10,030	10,132	80 - 83	122	101	58	
	2 x 2	23I/55CD	5,081	5,213	5,266	83 - 86	61	51	29	
		34I/82C	7,673	7,872	7,952	83 - 86	93	77	44	
		46I/110C	9,456	9,701	9,800	78 - 80	122	101	58	
	2 x 4	23I/55CD	6,167	6,327	6,392	106 - 110	58	48	29	
		34I/82C	7,576	7,773	7,852	81 - 84	93	77	46	
		46I/110C	9,337	9,579	9,677	77 - 79	122	101	61	
		68I/165C	13,558	13,910	14,052	74 - 77	183	152	91	

¹Lumen output is with the SYM lens type. Information subject to change without notice. Visit www.kenall.com for IES files and additional information.

²Lighting Power and Energy Calculations:

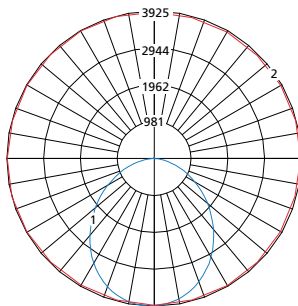
- Use **Occupied Power** for total electrical load calculations. Use this value to estimate branch circuit lighting loads.
- Use **LPD Power** for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-202X. Power used toward germicidal disinfection has been removed for this calculation.
- Use **Unoccupied** and **Occupied Power** for Energy calculations to determine the power consumed over time based on the use of the space.

Model: CSEDI14-110C-37K8-DIM1-DV-2F-2H-SYM and CSEDI14-46I/110C-37K8-DIM1-DV-2F-2H-SYM



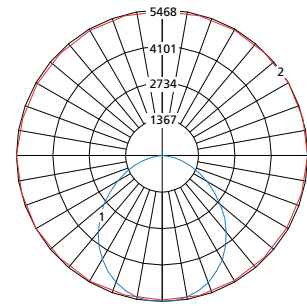
Maximum Candela = 4238 Located At Horizontal Angle = 15, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: CSEDI22-110C-37K8-DIM1-DV-2F-2H-SYM and CSEDI22-46I/110C-37K8-DIM1-DV-2F-2H-SYM



Maximum Candela = 3925 Located At Horizontal Angle = 195, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (195-15) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: CSEDI24-165C-37K8-DIM1-DV-2F-2H-SYM and CSEDI24-68I/165C-37K8-DIM1-DV-2F-2H-SYM

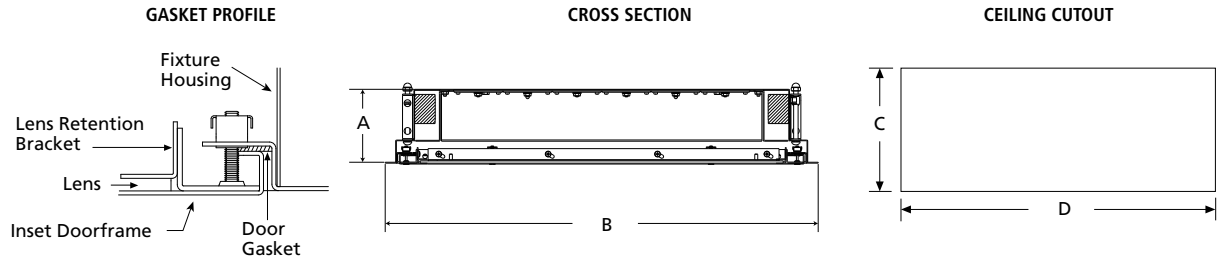


Max Candela = 5468 Located At Horizontal Angle = 0, Vertical Angle = 5
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)



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DIMENSIONAL DATA



DIMENSIONAL DATA (IN INCHES & CENTIMETERS)

	A	B	C	D
12x48	4.20	11.75 x 47.75	10.85	46.85
30.48cm x 121.92cm	10.67	29.85 x 121.29	27.56	119.00
24x24	4.20	23.75 x 23.75	22.85	22.85
60.96cm x 60.96cm	10.67	60.33 x 60.33	58.04	58.04
24x48	4.20	23.75 x 47.75	22.85	46.85
60.96cm x 121.92cm	10.67	60.33 x 121.29	58.04	119.00

* Add .375" (.95cm) to ceiling cut out dimensions when IF Option is specified
 ** Height is 5.875" (15 cm) with 110W lamp options when ordered in conjunction with LEL option



www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA
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