SIMPLESEAL™

CSEDI SERIES using Indigo-Clean Technology

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



Job Name

Fixture Type

PROJECT INFORMATION

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. Luminaire 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.

Per independent lab report #SGS-09517036476. 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)

Mode		Size	Lamp Power	Lamp Color	Driver DIM1	Voltage	Doorframe	Housir	ng	Optics SYM	Options	Accessories
				_	_							
Size			Lamp Power			p Color		Optics				
14	1'×4'		<u>1'×4'</u>			3 3200K / 82 C		SYM	Symn	netric, Diffuse	d DR Acrylic	
22	2'×2'			V Single-Mode ICT		3 3700K / 82 C						
24 2	2'×4'			V Single-Mode ICT	43K	3 4300K / 82 C	RI min.	Optio				
)W Single-Mode ICT						Emergency Ba	attery Pack	
			231/55C 55V	V Dual-Mode ICT	Driv	er Type		AMF ^	Antimi	crobial Finish		
			341/82C 82V	V Dual-Mode ICT	DIM	1 0-10V Dimmi	ng to 1%	FS	Fuse &	Holder		
			46I/110C 110	W Dual-Mode ICT				HJ	Sealed	Wireway		
					Volt	age		RM†	Contin	uous Row Mo	unting	
			2'×2'		DV	120-277VAC	, 50/60Hz	2C•	Two Ci	ircuit Wiring	_	
				V Single-Mode ICT	120	120VAC				3		
				V Single-Mode ICT	277	277VAC		Access	sories			
				W Single-Mode ICT	347	347VAC			Install	Frame		
				V Dual-Mode ICT								
				V Dual-Mode ICT	Doo	rframe Optior	ns					
				W Dual-Mode ICT	5F	•	04 SS Brushed	bhA *	375" to	o ceilina cut o	ut dimensions	
				The baar mode ici	2F	18-Ga CRS (S					led in drywall	
			2'×4'		AF	Anodized Alu				ge mount)	ica iii ai jiraii	
				V Single-Mode ICT	PAF		cated Aluminum				eration will yield	uneven
				V Single-Mode ICT	IAI	r dirited rubin	catea Ataminani		luminan		ciation will yield	uneven
				W Single-Mode ICT	Hou	sing Options					ons or 347V input	· voltage-specific
				W Single-Mode ICT	4H	24-Ga CRS (S	TD)				ght of fixture is 5	
				V Dual-Mode ICT	2H	20-Ga CRS	10)				options; 0°C/32°	
				V Dual-Mode ICT	5H	20-Ga CN3 20-Ga Type 3	ΛΛ CC			ivironment.	options, o C/32	1 111111.
				W Dual-Mode ICT	PAH						ainted curfaces of	Fluminaira
				5W Dual-Mode ICT	ГАП	.030 Faiiile	Alullillulli				ainted surfaces o steel doorframes	
				ow Dual-Ivioue ICT				(1101.)	avallabl	e on stainess	Steel doornames)
45			or CSEDI-ICT dering Option	•				ACC	ESSOR	IES ORDERE	D SEPARATELY	
<u> </u>											ol System for Dual-	Mode ICT Products
	Chi	nc in	10 days						7 10 1		\	



Ships in 10 days

(click here for Specifications)

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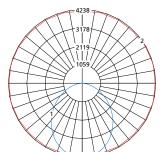
PERFORMANCE

	Length	Lamp Code	Lumen Output by Color (lm) ¹				Power Consumption ²			Estd L70
Technology			32K8	37K8	43K8	Efficacy (lm/W)	Occupied (W)	LPD (W)	Unoccupied (W)	LED Life (Hrs)
	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		
Circle Mede ICT		82C	7,673	7,872	7,952	83 - 86	93	77		
Single-Mode ICT		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		
	1 x 4	23I/55C	5,254	5,390	5,445	86 - 89	61	51	29	
		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	
D 114 1 16T		34I/82C	7,673	7,872	7,952	83 -86	93	77	44	80,000
Dual-Mode ICT		46I/110C	9,456	9,701	9,800	78 - 80	122	101	58	
		23I/55CD	6,167	6,327	6,392	106 - 110	58	48	29	
	2 4	34I/82C	7,576	7,773	7,852	81 - 84	93	77	46	
	2 x 4	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	

Lumen 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.

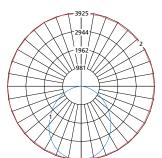
Model: CSEDI14-110C-37K8-DIM1-DV-2F-2H-SYM and CSEDI14-46I/110C-37K8-DIM1-DV-2F-2H-SYM



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.)

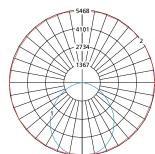
Model: CSEDI22-110C-37K8-DIM1-DV-2F-2H-SYM and CSEDI22-46I/110C-37K8-DIM1-DV-2F-2H-SYM



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

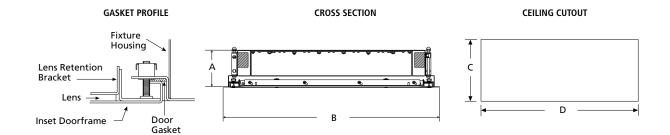
— 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
— 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)



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DIMENSIONAL DATA



DIMENSIONAL DATA (IN INCHES & CENTIMETERS)										
	Α	В	C	D						
12×48	4.20	11.75 × 47.75	10.85	46.85						
30.48cm×121.92cm	10.67	29.85 × 121.29	27.56	119.00						
24×24	4.20	23.75 × 23.75	22.85	22.85						
60.96cm×60.96cm	10.67	60.33×60.33	58.04	58.04						
24×48	4.20	23.75 × 47.75	22.85	46.85						
60.96cm×121.92cm	10.67	60.33 × 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) with110W lamp options when ordered in conjunction with LEL option