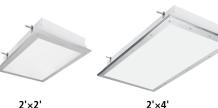
SIMPLESEAL™

CSEDO 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

1'×4'



Job Name

Fixture Type

Approved by

Catalog Number

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: 20-gauge type 304 stainless steel (#4 finish-post fabrication). One-piece 60° beveled perimeter construction. 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 (8) for 2×2, (12) for 2×4.

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

DOORFRAME GASKET: One-piece closed cell extruded Nitrile gasket seals doorframe to housing and ceiling structure.

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, 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" and 1.5" T-bar ceilings. Housing is universal between grid and flange-style mounting types. 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 IP66 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved. Suitable for biosafety labs rated BSL 3 and 4. Optional NSF Protocol P442 certified. 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-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: CSEDO-24-34I/82C-37K8-DIM1-DV-2F-2H-SYM)

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options	Accessories
CSEDO				DIM1				SYM	· 	
Size		Lamp Power		Lamp	Color		Optics			
14 1'×4'		<u>1'×4'</u>		32K8	3200K / 82 CRI	min.	SYM Syn	nmetric, Diffuse	d DR Acrylic	
22 2'×2'		55C 55W	Single-Mode ICT	37K8	3700K / 82 CRI	min.				
24 2'×4'		82C 82W	Single-Mode ICT	43K8	4300K / 82 CRI	min.	Options			
		110C 110W	/ Single-Mode ICT				LEL † 8.4V	/ Emergency Ba	ttery Pack	
		23I/55C 55W	Dual-Mode ICT	Drive	r Type		AMF [▲] Antir	nicrobial Finish		
		34I/82C 82W	Dual-Mode ICT	DIM1	0-10V Dimming	to 1%	FS Fuse	& Holder		
		46I/110C 110V	/ Dual-Mode ICT				HJ Seale	ed Wireway		
				Volta	ge		RM [◆] Cont	inuous Row Mo	unting	
		<u>2'×2'</u>		DV	120-277VAC, 5	50/60Hz	2C∙ Two	Circuit Wiring		
		55CD 55W	Single-Mode ICT	120	120VAC		P442 † Optio	onal NSF Protoc	ol P442 Certified	
		82C 82W	Single-Mode ICT	277	277VAC					
		110C 110V	/ Single-Mode ICT	347	347VAC		Accessorie	s		
		23I/55CD 55W	Dual-Mode ICT				IF* Insta	ll Frame		
		34I/82C 82W	Dual-Mode ICT	Door	rame Options					
		46I/110C 110W	/ Dual-Mode ICT	5F	20-Ga Type 304	SS (STD)	* Add .375	" to ceiling cut	out dimensions	
				2F	20-Ga CRS		† n/a with	165W lamp opt	ions or 347V inpu	t; voltage-specific
		<u>2'×4'</u>		XF	20-Ga Type 316	SS	selection	required and he	eight of fixture is !	5.875" when
		55CD 55W	Single-Mode ICT	PAF	.063" Painted F	abricated Aluminum	specified	with 110W lam	p options; 0°C/32	°F min.
		82C 82W	Single-Mode ICT				operating	environment.		
		110C 110V	/ Single-Mode ICT	Hous	ng Options		Applied of	nly to exposed	painted surfaces of	of luminaire
		165C 165W	/ Single-Mode ICT	4H	24-Ga CRS (STE))			ss steel doorframe	
		231/55CD 55W	Dual-Mode ICT	2H	20-Ga CRS		• 1'x4'-55C	single circuit o	peration will yield	uneven
		34I/82C 82W	Dual-Mode ICT	5H	20-Ga Type 304	SS	lens lumi		•	
		46I/110C 110W	/ Dual-Mode ICT	XH	20-Ga Type 316	SS	‡ P442 onl	y available on C	SEDO24	
		68I/165C 165W	/ Dual-Mode ICT	PAH	.050" Painted A		 Only avai 	lable when inst	alled in drywall ce	ilings (flange mount

Click <u>HERE</u> for CSEDO-ICT 'Fast Track' Ordering Options

Ships in 10 days

www.kenall.com | P: 800-4-Kenall | F: 262-891-9701 | 10200 55th Street Kenosha, Wisconsin 53144, USA

A brand of legrand

This product complies with the Buy American Act: manufactured in the United States with more than 50% of the component cost of US origin. 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. ©2022 Kenall Mfg.Co.

ACCESSORIES ORDERED SEPARATELY

(click here for Specifications)

IC150 External Room Control System for Dual-Mode ICT Products

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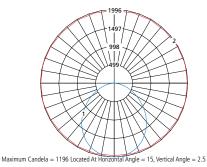
PERFORMANCE

Technology	Length	Lamp Code	Lumen Output by Color (lm) ¹			Cffice and	Power Consumption ²			Estd L70 LED
			32K8	37K8	43K8	Efficacy (lm/W)	Occupied (W)	LPD (W)	Unoccupied (W)	Life (Hrs)
	1 x 4	55C	4,917	5,045	5,096	81 - 84	61	51	n/a	80,000
		82C	7,425	7,618	7,696	80 - 83	93	77		
		110C	9,102	9,338	9,433	75 - 77	122	101		
	2 x 2	55CD	5,224	5,360	5,415	86 - 89	61	51		
Single-Mode ICT		82C	7,889	8,094	8,177	85 - 88	93	77		
Single-Wode ICT		110C	9,722	9,974	10,076	80 - 83	122	101		
		55CD	6,518	6,687	6,755	112 - 116	58	48		
	2 x 4	82C	8,008	8,216	8,300	86 - 89	93	77		
		110C	9,869	10,125	10,228	81 - 84	122	101		
		165C	14,331	14,703	14,853	78 - 81	183	152		
	1 x 4	23I/55C	4,917	5,045	5,096	81 - 84	61	51	29	80,000
		34I/82C	7,425	7,618	7,696	80 - 83	93	77	44	
		46I/110C	9,102	9,338	9,433	75 - 77	122	101	58	
	2 x 2	23I/55CD	5,224	5,360	5,415	86 - 89	61	51	29	
Dual-Mode ICT		34I/82C	7,889	8,094	8,177	85 -88	93	77	44	
Dual-Mode ICT		46I/110C	9,722	9,974	10,076	80 - 83	122	101	58	
	2 x 4	23I/55CD	6,518	6,687	6,755	112 - 116	58	48	29	
		34I/82C	8,008	8,216	8,300	86 - 89	93	77	46	
		46I/110C	9,869	10,125	10,228	81 - 84	122	101	61	
		68I/165C	14,331	14,703	14,853	78 - 81	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:

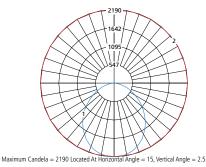
- Use Occupied Power for total electrical load calculations. Use this value to estimate branch circuit lighting loads.
- Use LPD Power for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-202X. Power used toward germicidal disinfection has been 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.





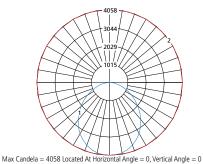
1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: CSEDO22-55CD-37K8-DIM1-DV-2F-2H-SYM and CSEDO22-23I/55CD-37K8-DIM1-DV-2F-2H-SYM



1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: CSEDO24-110C-37K8-DIM1-DV-2F-2H-SYM and CSEDO24-46I/110C-37K8-DIM1-DV-2F-2H-SYM



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

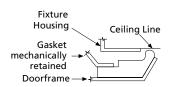


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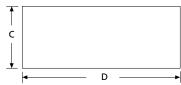
CSEDO SERIES using Indigo-Clean Technology

DIMENSIONAL DATA

GASKET PROFILE CROSS SECTION CEILING CUTOUT







DIMENSIONAL DATA (IN INCHES)								
	Α	В	C	D				
1×4	4.43	11.94×47.94	10.85	46.85				
2×2	4.43	23.94 × 23.94	22.85	22.85				
2×4	4.43	23.94 × 47.94	22.85	46.85				

 $^{^{\}star}$ Add .375" to ceiling cut out dimensions when IF Option is specified

^{**} Height is 5.875" with 110W lamp options when ordered in conjunction with LEL option.