

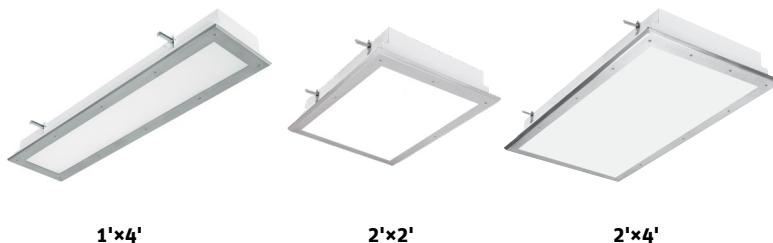
# INDIGO-CLEAN™ CSEDOIC SERIES

## Patented Continuous Environmental Disinfection System

### Dual Mode White and Indigo Disinfection LED

#### PRODUCT FEATURES:

- » Two operational modes: White Disinfection Mode & Indigo Disinfection Mode
- » USP 797 and 800 compliant
- » High performance LED arrays provide uniform lens appearance
- » Diffused high-efficiency lens for reduced glare
- » Symmetric optical distribution
- » Universal housing accommodates either flange (drywall) or grid ceiling applications
- » One-piece sealed housing; smooth exterior doorframe and lens for infection control and simplified cleaning protocols



PROJECT INFORMATION	
Job Name	_____
Fixture Type	_____
Catalog Number	_____
Approved by	_____

#### SPECIFICATIONS

**HOUSING:** 20-gauge CRS. Hole-free, one-piece, seam-welded construction. 18-gauge housing flange with mitered and welded corners. Gloss white TGIC polyester powder-coat finish with 5-stage pre-treatment. Antimicrobial finish on all exposed painted surfaces of installed luminaire.

**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 (10) for 1x4, (8) for 2x2, (12) for 2x4.

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

**ELECTRICAL:** Serviceable mid-power white LED array and high-power 405 nm indigo LED array. Available 3700K and 4300K color temperatures with maximum 3-step MacAdam variation allowance. Minimum 80 CRI standard with optional minimum 90 CRI available. 120-277VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant-current drivers (<20% THD, >0.88 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range with dim-to-dark capabilities in White Disinfection Mode. 1mA maximum source current. Two operational modes: White Disinfection Mode is a white LED array for ambient lighting plus simultaneous low-power 405nm indigo array for low-level continuous environmental disinfection. Indigo Disinfection Mode is a high power 405nm Indigo LED array for continuous environmental disinfection. Operational mode determined via internal low-voltage device based upon input provided by external IC150 room control system. EMC meets or exceeds MIL STD 461G conducted requirements.

**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 flange (drywall) or grid ceiling applications.

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please contact Indigo-Clean@Kenall.com.

**PATENT:** Indigo-Clean products and technology covered by U.S. Patent No. US 9,039,966 and US 8,398,264. Product may also be covered by patents found at www.kenall.com/patents. Other patents pending.

**WARRANTY:** Limited five (5) year Kenall LED warranty.

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for IC and Wet Location installations. ETL certified IP66 per IEC 60598. NSF2 Splash/Non-Food Zone. Meets FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Conducted emissions compliant with MIL-STD-461G limits. CCEA Approved. EPA Est. No. 99283-WI-1.



#### ORDERING INFORMATION (Ex: CSEDOIC-24-130I/125C-43K8-DIM1-DV-2F-2H-SYM)

Model	Size	Lamp Power	Lamp Color	Driver	Input Voltage	Doorframe	Housing	Optics	Options
<b>CSEDOIC</b>				<b>DIM1</b>	<b>DV</b>			<b>SYM</b>	
<b>Size</b>				<b>Driver Type</b>				<b>Optics</b>	
<b>14</b>	1'x4' Nominal			<b>DIM1</b>	0-10V Dimming to 1% with Dim-to-Dark Capabilities in White Mode			<b>SYM</b>	Symmetric, Diffused DR Acrylic
<b>22</b>	2'x2' Nominal			<b>Input Voltage</b>				<b>Options</b>	
<b>24</b>	2'x4' Nominal			<b>DV</b>	120-277VAC, 50/60Hz			<b>LEL</b>	8.4W Integral Emergency Battery Pack
<b>Lamp Power</b>				<b>Doorframe Options</b>				<b>FS</b>	Fuse & Holder
<b>1'x4'</b>				<b>5F</b>	20-Ga Type 304 SS (STD)			<b>RM*</b>	Continuous Row Mounting
<b>65I/62C</b>	65W Indigo/62W White Disinfection LED			<b>2F</b>	20-Ga CRS				
<b>2'x2'</b>				<b>XF</b>	20-Ga Type 316 SS				
<b>65I/62C</b>	65W Indigo/62W White Disinfection LED			<b>PAF</b>	.063" Painted Fabricated Aluminum				* Only available when installing in drywall ceilings (flange mount)
<b>2'x4'</b>				<b>Housing Options</b>					
<b>130I/125C</b>	130W Indigo/125W White Disinfection LED			<b>2H</b>	20-Ga CRS; Painted Antimicrobial (STD)				
<b>Lamp Color</b>				<b>5H</b>	20-Ga Type 304 SS				
<b>37K8</b>	3700K, 80 CRI			<b>PAH</b>	.050" Painted Antimicrobial Aluminum				
<b>37K9</b>	3700K, 90 CRI								
<b>43K8</b>	4300K, 80 CRI								
<b>43K9</b>	4300K, 90 CRI								

**ACCESSORIES ORDERED SEPARATELY**  
**IC150** External Room Control System  
 (click [here](#) for Specifications)



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

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### Dual Mode White and Indigo Disinfection LED

Size	Lamp Code	Delivered Lumens (lm)	Efficacy (lm/W)	Power Consumption <sup>1</sup>			Color Rendering		TM-30 Color Quality <sup>2</sup>		Est. L70 LED Life (Hrs, White/405)
				Occupied (W)	LPD (W)	Unoccupied (W)	R <sub>a</sub>	R <sub>g</sub>	R <sub>f</sub>	R <sub>g</sub>	
1'x4'	65I/62C-37K8	7,143	107	67	56	70	82	9	77	100	125,000 / 50,000
	65I/62C-37K9	6,327	94				94	61	86	104	
	65I/62C-43K8	7,484	112				83	10	80	99	
	65I/62C-43K9	6,405	96				93	61	88	103	
2'x2'	65I/62C-37K8	7,404	111	67	56	70	82	9	77	100	125,000 / 50,000
	65I/62C-37K9	6,558	98				94	61	86	104	
	65I/62C-43K8	7,757	116				83	10	80	99	
	65I/62C-43K9	6,639	99				93	61	88	103	
2'x4'	130I/125C-37K8	15,832	117	135	112	140	82	9	77	100	125,000 / 50,000
	130I/125C-37K9	14,022	104				94	61	86	104	
	130I/125C-43K8	16,586	123				83	10	80	99	
	130I/125C-43K9	14,196	105				93	61	88	103	

Information subject to change without notice. Visit [www.kenall.com](http://www.kenall.com) for .ies files and additional information.

<sup>1</sup>Lighting Power and Energy Calculations:

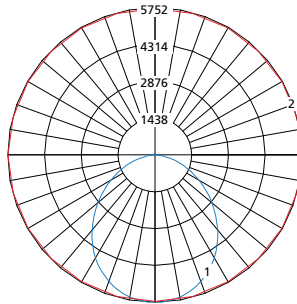
Use Occupied Power for total electrical load calculations. Use this value to estimate branch circuit lighting loads.

Use LPD Power for lighting power density calculations. Only the power attributed to white light is required per NEMA LSD EB 84-2021. Power used toward germicidal disinfection can be 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.

<sup>2</sup>TM-30 Color Vector Graphic available upon request.

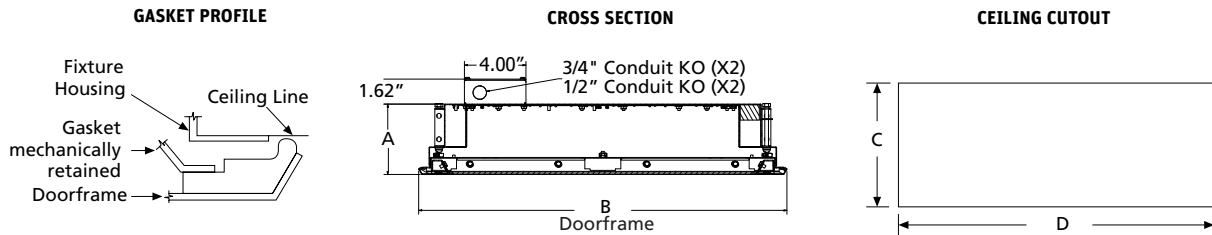
Model: CSEDOIC-24-130I/125C-43K9-DIM1-DV-2F-2H-SYM



Maximum Candela = 5752 Located At Horizontal Angle = 0, Vertical Angle = 2.5

— 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)  
 — 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

### DIMENSIONAL DATA



#### DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
<b>1x4</b>	4.43	11.94 x 47.94	10.85	46.85
<b>2x2</b>	4.43	23.94 x 23.94	22.85	22.85
<b>2x4</b>	4.43	23.94 x 47.94	22.85	46.85



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