

# SIMPLESEAL™

## CSEDI SERIES – TUNABLE WHITE LED – INSET DOOR

### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

#### PRODUCT FEATURES:

- » High-output, high-CRI LED lamp sources with 2700L-6500K white tuning capability (Click [here](#) for fixed white CCT Product)
- » Diffused high-efficiency lens for reduced glare
- » Recessed ceiling mount; grid or flange - 1'x4', 2'x2', 2'x4'
- » Suitable for universal installation into 1.0" and 1.5" grid or flange (drywall) ceilings
- » One piece inset doorframe, secured to housing with aircraft cables



#### 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.

**LED MODULE:** Serviceable tunable-white, mid-power LED array provides 2700K through 6500K CCT range with a two-point path. Minimum 82 CRI standard (R9 >20) with optional minimum 90 CRI (R9 >50).

**DRIVER:** 120-277VAC, 50/60Hz electrical input (PF ≥ 0.9, THD < 20%). Minimum 85% electrical efficiency. Serviceable, constant-current multi-channel programmable driver with dual analog (0-10V) control inputs for intensity and CCT. Optional DALI (Type 8) driver. Logarithmic intensity profile with 0.1-100% range, with dim-to-dark capabilities. Linear profile on CCT adjustment. Refer to charts on page 2 for further details.

**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](http://www.kenall.com)

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

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Locations and non-IC recessed installation. Certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved. Suitable for biosafety labs rated BSL 1-2 and FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Suitable for EU GMP Grade A cleanrooms.



#### ORDERING INFORMATION (Ex: CSEDI-24-67T-27/65K8-ATW-DV-2F-2H-SYM)

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options	Accessories
<b>CSEDI</b>								<b>SYM</b>		
<b>Size</b>		<b>Lamp Power</b>			<b>Voltage</b>			<b>Optics</b>		
14	1'x4'	45T	45W Tunable White (1'x4')		DV	120-277VAC, 50/60Hz		SYM	Symmetric, Diffused DR Acrylic	
22	2'x2'	45TD	45W Tunable White (2'x2', 2'x4')		120	120VAC		<b>Options</b>		
24	2'x4'	67T	67W Tunable White		277	277VAC		LEL†	8.4W Emergency Battery Pack	
		90T	90W Tunable White					AMF▲	Antimicrobial Finish	
			<b>Lamp Color</b>			<b>Doorframe Options</b>		FS	Fuse & Holder	
			27/65K8	2700-6500K CCT Range (82 CRI min)		5F	20-Ga Type 304 SS Brushed	HJ	Sealed Wireway	
			27/65K9	2700-6500K CCT Range (92 CRI min)		2F	18-Ga CRS (STD)	RF	Radio Frequency Filter (Voltage specific selection required)	
				<b>Driver Type</b>		AF	Anodized Aluminum	RM†	Continuous Row Mounting	
				ATW	Analog (0-10V) Dimming Tunable White Driver	PAF	Painted Fabricated Aluminum	2C	Two Circuit Wiring (n/a 45T Lamp Type)	
				DTW	DALI Tunable White Driver		<b>Housing Options</b>	<b>Accessories</b>		
				DMX	DMX Tunable White Driver (Consult Factory)		4H	24-Ga CRS (STD)	IF*†	Install Frame
							2H	20-Ga CRS		
							5H	20-Ga Type 304 SS		
							PAH	.050" Painted Aluminum		

\* Add .375" (.95cm) to ceiling cut out dimensions

† Only available when installed in drywall ceilings (flange mount)

‡ Height of fixture is 5.875" with LEL Option. Voltage-specific selection required. 0°C/32°F min. operating environment.

▲ Applied only to exposed painted surfaces of luminaire (not available on stainless steel doorframes)



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## CSEDI SERIES – TUNABLE WHITE LED

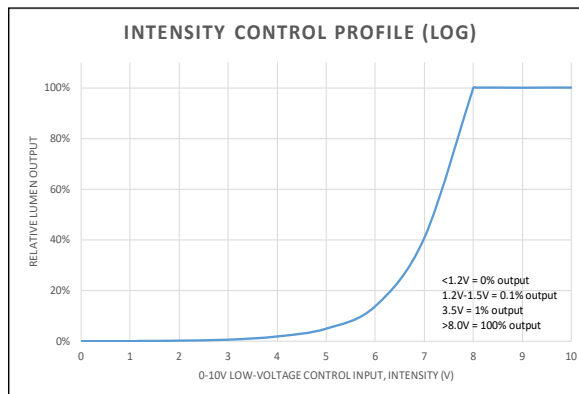
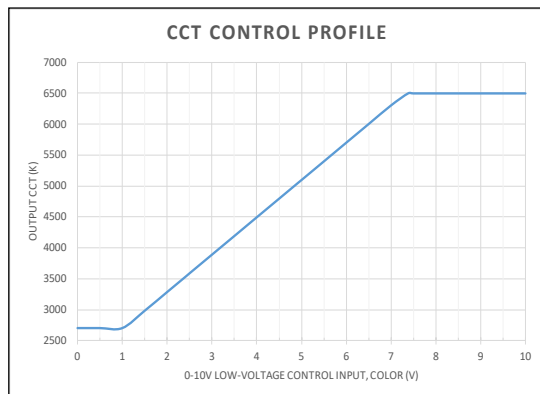
PERFORMANCE		Initial Delivered Lumens		Input Power (W)	Estd L70 LED Life (Hrs)
Model	Lamp Code	Lumen Output (lm)	Efficacy (lm/W)		
CSEDI14	45T-27/65K8	5,305	115	46	80,000
	45T-27/65K9	4,275	93	46	80,000
	67T-27/65K8	7,937	117	68	80,000
	67T-27/65K9	6,574	97	68	80,000
	90T-27/65K8	10,308	112	92	60,000
	90T-27/65K9	8,308	90	92	60,000
CSEDI22	45TD-27/65K8	5,131	112	46	80,000
	45TD-27/65K9	4,135	90	46	80,000
	67T-27/65K8	7,676	113	68	80,000
	67T-27/65K9	6,358	93	68	80,000
	90T-27/65K8	9,970	108	92	60,000
	90T-27/65K9	8,035	87	92	60,000
CSEDI24	45TD-27/65K8	6,153	137	45	80,000
	45TD-27/65K9	4,958	110	45	80,000
	67T-27/65K8	8,186	120	68	80,000
	67T-27/65K9	6,780	100	68	80,000
	90T-27/65K8	10,632	116	92	60,000
	90T-27/65K9	8,569	93	92	60,000

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

### PERFORMANCE SCALING, BY LAMP COLOR

CCT (K)	27/65K8					27/65K9				
	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg	LUMEN SCALE FACTOR	Ra	R9	Rf	Rg
2700	0.92	83	10	83	97	0.95	92	57	89	98
3000	0.95	84	15	83	98	0.97	94	70	91	99
3500	0.99	86	23	84	98	0.99	95	77	92	99
4000	1.00	86	26	84	98	1.00	96	83	92	99
4600	1.00	86	28	84	98	1.00	96	90	92	100
5000	1.01	86	25	83	98	1.01	96	96	91	101
5700	0.99	85	23	82	98	0.99	96	96	91	100
6500	0.99	84	16	82	96	0.99	96	96	90	100

### CCT AND INTENSITY ADJUSTMENT PROFILE - ATW DRIVER TYPE



NOTE: The provided information is the typical expected performance of a single luminaire. Additional luminaires on the same 0-10V line may result in different control profiles. Fine tuning of system performance should be completed after installation is complete. To avoid CCT shift between luminaires, care should be taken to minimize voltage drop on the CCT Control line. It is recommended to limit the load on the CCT control circuit to twenty (20) 45T or ten (10) 67T/90T luminaires or less.



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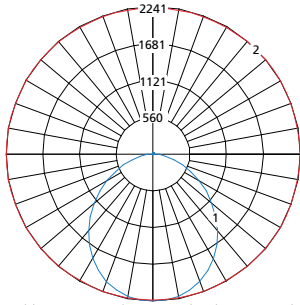
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### PERFORMANCE

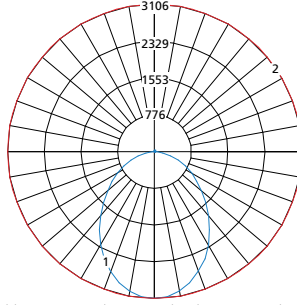
Model: CSEDI14-45T-27/65K8-ATW-120-2F-2H-SYM



Maximum Candela = 2241 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.)

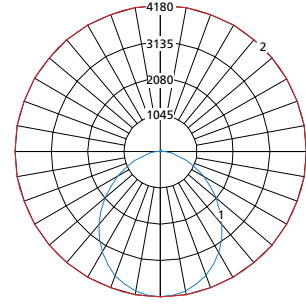
Model: CSEDI22-67T-27/65K8-ATW-120-2F-2H-SYM



Maximum Candela = 3106 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.)

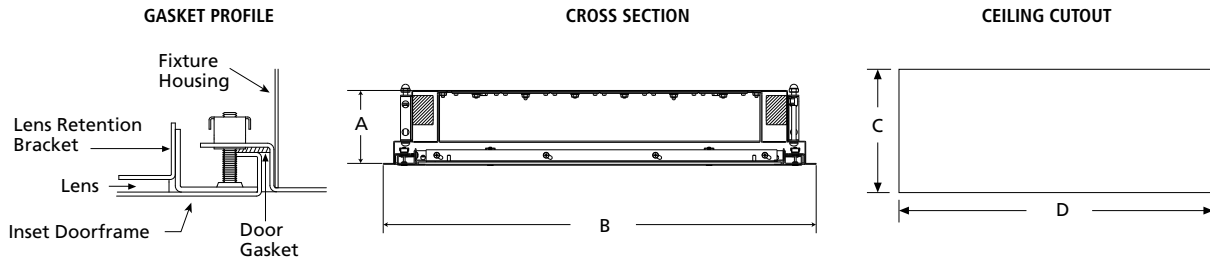
Model: CSEDI24-90T-27/65K8-ATW-120-2F-2H-SYM



Max Candela = 4304 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.)

### DIMENSIONAL DATA



#### DIMENSIONAL DATA (IN INCHES & CENTIMETERS)

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



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