

SIMPLESEAL™

CSEDI SERIES – TUNABLE WHITE LED – INSET DOOR

PRODUCT FEATURES:

- » High-output, high-CRI LED lamp sources with 2700K-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

PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____



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

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. CSEDI is participating in Declare. Build America, Buy America Act compliant.



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
CSEDI								SYM		
Size		Lamp Power			Voltage			Optics		
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			Options		
24 2'x4'		67T 67W Tunable White			277 277VAC			LEL ‡ 10W Emergency Battery Pack		
		90T 90W Tunable White						AMF ▲ Antimicrobial Finish		
		Lamp Color			Doorframe Options			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)		
		Driver Type			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			Housing Options			Accessories		
		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)

± 0°C/32°F min. ambient

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



www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA
 This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Act (TAA), Build America, Buy America Act (BABA), and others. 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. ©2025 Kenall Mfg. Co.

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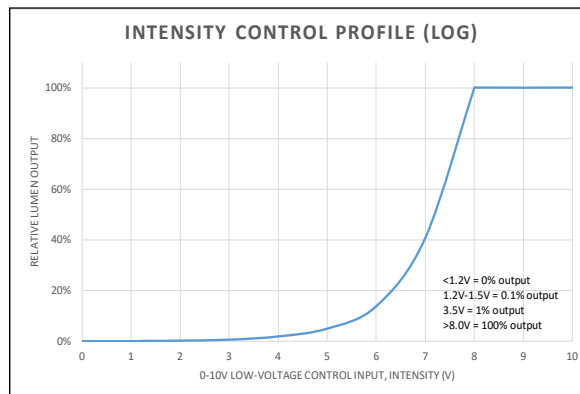
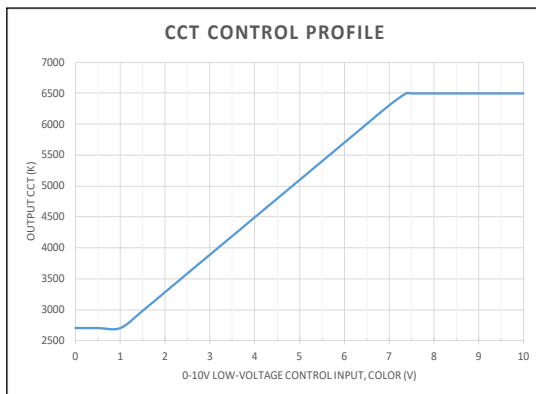
PERFORMANCE		Initial Delivered Lumens			
Model	Lamp Code	Lumen Output (lm)	Efficacy (lm/W)	Input Power (W)	Estd L70 LED Life (Hrs)
CSEDI14	45T-27/65K8	5,305	115	46	80,000
	45T-27/65K9	4,275	93	46	80,000
	67T-27/65K8	7,937	117	68	80,000
	67T-27/65K9	6,574	97	68	80,000
	90T-27/65K8	10,308	112	92	60,000
	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 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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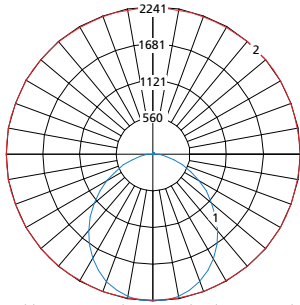
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PERFORMANCE

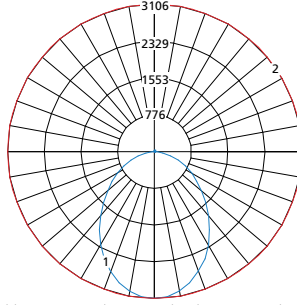
Model: CSEDI14-45T-27/65K8-ATW-120-2F-2H-SYM



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.)

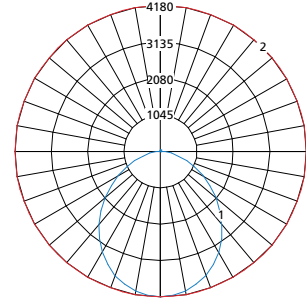
Model: CSEDI22-67T-27/65K8-ATW-120-2F-2H-SYM



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.)

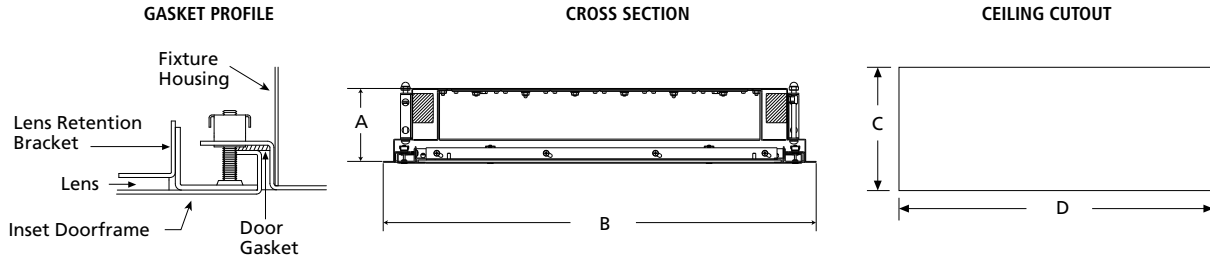
Model: CSEDI24-90T-27/65K8-ATW-120-2F-2H-SYM



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
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



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