SIMPLESEAL™

CSEDO SERIES – TUNABLE WHITE LED

PRODUCT FEATURES:

- » High-output, high-CRI LED lamp sources WITH 2700K-6500K white tuning capability
- » Diffused high-efficiency lens for reduced glare
- » Suitable for universal installation into 1.0" and 1.5" grid or flange (drywall) ceilings
- » One piece overlapping door provides air-tight integrity of luminaire
- » Optional Food Zone/Non-Contact listing, ideal for food processing applications
- » Optional NSF P442 Protocol assures a sealed cleanroom environment

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. Thumb screws optional.

1'×4'

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

OPTICS: Symmetric optic includes diffused, impact-resistant acrylic lens. FN option includes FDA approved Food Zone clear polycarbonate lens outer lens; diffused acrylic inner 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" and 1.5" T-bar ceilings. Housing is field-convertible 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 Locations and non-IC recessed installation. 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. Optional NSF2 Food Zone/Non-Contact.Suitable for EU GMP Grade A cleanrooms. CSEDO is participating in Declare. Build America, Buy America Act compliant.



ORDERING INFORMATION (Ex: CSEDO-24-90T-27/65K8-ATW-DV-2F-2H-SYM)

Model	20	Size	Lamp Power	Lamp Color	Driver	Volta	ge	Doorframe	Housing	Optics	Options	Accessories
22	1'×4' 2'×2' 2'×4'		45TD 67T 90T Lamp Color 27/65K8 27/65K9 Driver Type ATW Analo DTW DALI	45W Tunable White (1'×4 45W Tunable White (2'×2' 67W Tunable White 90W Tunable White 2700-6500K CCT Range (2700-6500K CCT Range (g (0-10V) Dimming Tunabl Funable White Driver Funable White Driver (Cons	, 2'×4') 82 CRI min) 92 CRI min) e White Driver	Volta DV 120 277 Doot 5F 2F XF PAF	120-277VA 120VAC 277VAC fframe Optio 20-Ga Type 3 20-Ga CRS 20-Ga Type 3	ns 804 SS (STD)	2H 20 5H 20 7AH 20 PAH 0.05 Optics SYM 20 Optics SYM 20 Optics LEL+ 10 AMF ⁴ Ar FN** Fo TS St FS Fu HJ Se RF Ra RF C	-Ga CRS (STD) -Ga CRS -Ga Type 304 SS -Ga Type 316 SS 30" Painted Alumin Symmetric, Diffused DW Emergency Batt ntimicrobial Finish tod Zone/Non-Cont anless Steel Doorfi se & Holder valed Wireway	d DR Acrylic tery Pack tact rame Thumb Scre er (voltage specif unting	ic selection required)
									* Add .3 ** Lensing outer l † 0°C/32	stall Frame 75" to ceiling cut o	pproved Food Zo crylic inner lens	one clear polycarbona

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

PROJECT INFORMATION

2'×4

Job Name

Fixture Type

Approved by

Catalog Number

2'x2

- P442 only available on CSEDO24
- Only available when installed in drywall ceilings (flange mount)



www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA A brand of Legrand This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Ace (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.

SIMPLESEAL[™]

CSEDO SERIES – TUNABLE WHITE LED

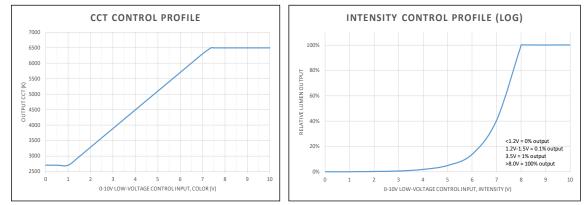
PERFORMANCE		Initial Delivere	ed Lumens			
Model	Model Lamp Code		Efficacy (lm/W)	Input Power (W)	Estd L70 LED Life (Hrs)	
	45T-27/65K8	5,676	123	46	80,000	
	45T-27/65K9	4,575	99	46	80,000	
CSEDO14	67T-27/65K8	8,493	125	68	80,000	
CSEDU14	67T-27/65K9	7,034 103 6		68	80,000	
	90T-27/65K8	11,031	120	92	60,000	
	90T-27/65K9	8,890	97	92	60,000	
	45TD-27/65K8	5,490	119	46	80,000	
	45TD-27/65K9	4,425	96	46	80,000	
CSEDO22	67T-27/65K8	8,214	121	68	80,000	
CSEDUZZ	67T-27/65K9	6,803	100	68	80,000	
	90T-27/65K8	10,668	116	92	60,000	
	90T-27/65K9	8,598	93	92	60,000	
	45TD-27/65K8	6,503	145	45	80,000	
	45TD-27/65K9	5,241	116	45	80,000	
CSED034	67T-27/65K8	8,760	129	68	80,000	
CSEDO24	67T-27/65K9	7,256	107	68	80,000	
	90T-27/65K8	11,377	124	92	60,000	
	90T-27/65K9	9,170	100	92	60,000	

Information subject to change without notice. Visit www.kenall.com for ies files additional information.

PERFORMANCE SCALING, BY LAMP COLOR

		27/65	К8		27/65K9					
CCT (K)	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.



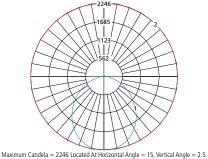
www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA A brand of Legrand This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Ace (TAA), Build America, Buy America Act (BABA),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

SIMPLESEAL[™]

CSEDO SERIES – TUNABLE WHITE LED

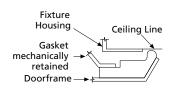
PERFORMANCE

Model: CSEDO14-45T-27/65K8-ATW-120-2F-2H-SYM



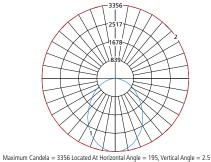
L - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DIMENSIONAL DATA



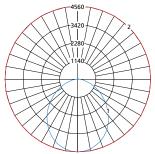
GASKET PROFILE





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

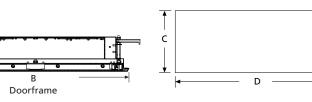
Model: CSEDO24-90T-27/65K8-ATW-120-2F-2H-SYM



Max Candela = 4560 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 (IN INCHES)

	Α	B	Ċ	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

* Add .375" to ceiling cut out dimensions when IF Option is specified



www.kenall.com | P: 800-4-Kenall | F: 262-891-9700 | 10200 55th Street Kenosha, Wisconsin 53144, USA A brand of Legrand This product is able to comply with the latest domestic preference legislation, such as the Buy American Act (BAA), Trade Agreement Ace (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.