

SIMPLESEAL™

CSEFL SERIES – EXTENDED FLANGE

PRODUCT FEATURES:

- » Recessed ceiling mount – flange; 1'x4', 2'x2', 2'x4'
- » One-piece seam welded housing with extruded aluminum extended flange assures seal against rough ceilings
- » One-piece doorframe provides air-tight integrity of luminaire
- » Suitable for Class 100 (ISO 5) environments



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS:

HOUSING: 20-gauge CRS. Hole-free one-piece seam welded construction. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Housing Flange: Heavy duty extruded marine grade aluminum with anodized finish.

DOORFRAME: Heavy duty extruded marine grade aluminum with anodized finish. 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. (12) for 1x4, (10) for 2x2, (14) for 2x4. Doorframe Gasket: One-piece closed cell extruded nitrile gasket seals doorframe to housing flange.

LENS: .125" #12 high impact acrylic (FL) or impact-resistant diffused acrylic (LED) lens sealed to perimeter ledge of lens aperture with silicone sealant and secured with continuous lens retention system. Lens orientation – smooth side out. See Options for alternate lens selections. If required, specify lens overlay combinations inner/outer (Example: R/T).

ELECTRICAL: LED: Available 3500K, 4000K and 5000K color temperatures, 82 CRI; maximum 3-step MacAdam variation allowance. 120-277VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant-current driver (<20% THD, >0.95 PF). Standard 0-10V dimming with 1-100% range; 400µA maximum source current. LF: Electronic ballast <10% THD standard. See Ordering Information for alternate or multiple ballasts, sealed wireway and optional equipment. Lamps by others.

INSTALLATION: Adjustable swing-out mounting brackets standard. See Options for continuous row mounting and plaster frames.

WARRANTY: Limited five (5) year warranty.

LISTINGS: UL and CUL Listed for Wet Locations. UL Classified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved. Suitable for BSL 1-4 laboratories.



ORDERING INFORMATION (Ex: CSEFL14-1-54-RS-1-277-PAF-2H-U-FS)

Model	Lamp Qty/Type	Ballast Type	Ballast Qty	Voltage	Doorframe Option	Housing	Lens Type	Options
Model		2x4			Ballast Quantity		Lens Type	
CSEFL14 1'x4'		45L35K 45 Watt 3500K LED			1 One		Acrylic	
CSEFL22 2'x2'		45L40K 45 Watt 4000K LED			2 Two		T* .125" Clear	
CSEFL24 2'x4'		45L50K 45 Watt 5000K LED					U .125" #12 Prismatic High Impact Acrylic (STD - FL)	
		67L35K 67 Watt 3500K LED			Voltage		SYM Symmetric, Diffused DR Acrylic (STD - LED)	
		67L40K 67 Watt 4000K LED			120 120 Volts			
		67L50K 67 Watt 5000K LED			277 277 Volts			
Lamp Quantity/Type		90L35K 90 Watt 3500K LED			347 347 Volts			
1x4		90L40K 90 Watt 4000K LED			DV 120-277 Volts			
45L35K 45 Watt 3500K LED		90L50K 90 Watt 5000K LED					Polycarbonate	
45L40K 45 Watt 4000K LED		2-32 Two F32T8					2 .125" #12 Prismatic	
45L50K 45 Watt 5000K LED		3-32 Three F32T8					G* .125" Clear	
67L35K 67 Watt 3500K LED		4-32 Four F32T8			Doorframe/Flange Options		Tempered Glass	
67L40K 67 Watt 4000K LED		6-32 Six F32T8			PAF .063" Painted Fabricated Aluminum		TG .156" Textured Tempered Glass	
67L50K 67 Watt 5000K LED		2-44 Two F48T8HO			5F 20-Ga/18-Ga Type 304 SS			
1-32 One F32T8		3-44 Three F48T8HO			XF 20-Ga/18-Ga Type 316 SS		Specified Lens	
2-32 Two F32T8		4-44 Four F48T8HO					SL Specified Lens	
3-32 Three F32T8		2-54 Two F54T5HO			Housing Options			
1-44 One F48T8HO		3-54 Three F54T5HO			2H 20-Ga CRS (STD)		Options	
2-44 Two F48T8HO		4-54 Four F54T5HO			5H 20-Ga Type 304 SS		EL* Standard Lumen EL Pack	
1-54 One F54T5HO					XH 20-Ga Type 316 SS		LEL LED Emergency Battery Backup (LED only)	
2-54 Two F54T5HO					PAH .050" Painted Aluminum		PEL* High Lumen EL Pack	
							SEL Specified EL Pack	
2x2		Ballast/Driver Type					DLN LED Night Light w/Light Level Control (100% - 20%; Voltage specific selection required; n/a 347V)	
45L35K 45 Watt 3500K LED		IS Instant Start Electronic <10% THD (T8,T8HO)					FS Fuse & Holder	
45L40K 45 Watt 4000K LED		RS Rapid Start Electronic <10% THD (T8,T8HO,T5HO)					FN Food Zone/Non-Contact	
45L50K 45 Watt 5000K LED		SB Specified Ballast					HJ Sealed Wireway	
67L35K 67 Watt 3500K LED		DCC Dimming Constant Current Driver (LED only)					PA* Plenum Access (2x2' & 2x4' only)	
67L40K 67 Watt 4000K LED							PF Plaster Frame	
67L50K 67 Watt 5000K LED							RF Radio Frequency Filter	
2-17 Two F17T8							RM Continuous Row Mounting (consult factory for ceiling cut-out)	
3-17 Three F17T8							TH 1/2" Trade Size Threaded Hub	
4-17 Four F17T8							TN* 5/7/9 Watt Night Light (Lamp supplied by others; Voltage specific selection required; n/a 347V)	
6-17 Six F17T8							UV UV Filtering Lens (Specify)	

* n/a with LED



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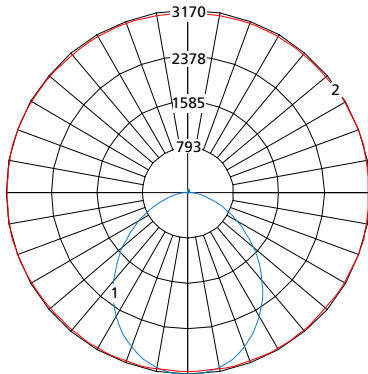
CSEFL SERIES – Technical Data

PERFORMANCE

Model	Lamp Type	Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
		@ 25°C	Efficacy (lm/W)			
CSEFL14	45L35K	5,057	103	49	100	80,000
	45L40K	5,230	107	49	100	80,000
	45L50K	5,588	114	49	100	80,000
	67L35K	7,747	108	72	75	80,000
	67L40K	8,011	111	72	75	80,000
	67L50K	8,559	119	72	75	80,000
CSEFL22	45L35K	5,373	110	49	100	80,000
	45L40K	5,556	113	49	100	80,000
	45L50K	5,936	121	49	100	80,000
	67L35K	8,231	114	72	75	80,000
	67L40K	8,511	118	72	75	80,000
	67L50K	9,094	126	72	75	80,000
CSEFL24	45L35K	5,454	111	49	100	80,000
	45L40K	5,640	115	49	100	80,000
	45L50K	6,026	123	49	100	80,000
	67L35K	9,023	125	72	75	80,000
	67L40K	9,331	130	72	75	80,000
	67L50K	9,969	138	72	75	80,000
	90L35K	11,594	120	97	100	60,000
	90L40K	11,990	124	97	100	60,000
	90L50K	12,810	132	97	100	60,000

Displayed information is for selected luminaires only. Additional wattages and color temperatures are also available. Visit www.kenall.com for additional information.

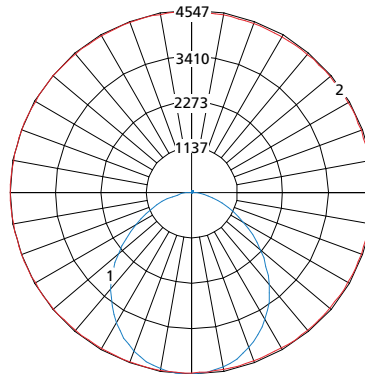
Model: CSEFL14-67L40K-DCC-DV-PAF-2H



Maximum Candela = 3170 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: CSEFL24-90L40K-DCC-DV-PAF-2H



Maximum Candela = 4547 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.)



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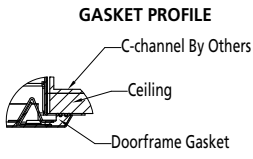
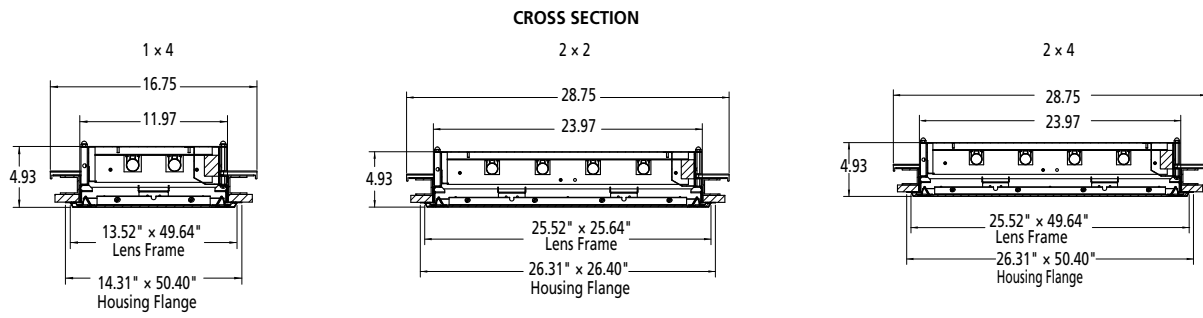
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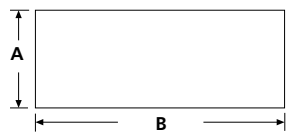
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CSEFL SERIES – Technical Data

DIMENSIONAL DATA



RECOMMENDED CEILING CUTOUT



NOTE: Ceiling cut-out dimensions with 5F Option: 24.125" x 48.25" (61.28cm x 122.56cm)

CEILING CUT-OUT DIMENSIONS		
	A	B
1x4	12.13	48.25
2x2	24.13	24.25
2x4	24.13	48.25



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