

SIMPLESEAL™

CSESO SERIES – SURFACE MOUNT – OVERLAPPING DOOR

PRODUCT FEATURES:

- » Ceiling mount; surface – 1'x4', 2'x2', 2'x4'
- » One-piece doorframe provides air-tight integrity of luminaire
- » For Hazardous applications please refer to the HSESO series
- » Optional Food Zone/Non-Contact listing ideal for food processing applications



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS:

HOUSING: 20-gauge type 304 stainless steel (#4 finish-post fabrication). Hole-free one-piece seam welded construction.

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 (8) for 2x2, (10) for 1x4, (12) for 2x4 captive flush mounted Phillips head stainless steel fasteners. Thumb screws used for FN option. Doorframe Gasket: One-piece closed cell extruded silicone gasket seals doorframe to housing.

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). FN option includes FDA approved Food Zone clear polycarbonate lens. Can be combined with prismatic inner lens (specify type in Lens Type field).

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; 800µA maximum source current. LE: Quantity and type as specified – see ordering information. All ballasts UL listed Class P. Wireway hole provided with hub/ring assembly. See Ordering Information for alternate or multiple ballasts, sealed wireway and optional equipment. Lamps by others.

INSTALLATION: Four .312" holes for surface mounting. See options for pendant mounting holes.

WARRANTY: Limited five (5) year warranty.

LISTINGS: UL and CUL Listed for Wet Location. UL certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. FED-STD-209E/Class 1 (ISO 3) Cleanrooms. Suitable for biosafety labs rated BSL 1 to 4. Optional NSF2 Food Zone/Non-Contact. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC listed. Please check the DLC Qualified Products List [here](#) for listed configuration details. Suitable for installation into -30°C to 40°C ambient environments, unless otherwise noted.



ORDERING INFORMATION (Ex: CSESO14-2-32-IS-1-120-2F-2H-T)

Model	Lamp Qty/Type	Ballast Type	Ballast Qty	Voltage	Doorframe Option	Housing	Lens Type	Options
Model	Lamp Qty/Type (cont.)	Ballast/Driver Type			Lens Type (cont.)			
CSESO14 1'x4'	2'x2'	IS	Instant Start Electronic <10% THD (T8,T8HO)		Polycarbonate			
CSESO22 2'x2'	2-24 Two F24T5HO (120-277V only)	RS	Rapid Start Electronic <10% THD (T8,T8HO,T5HO)		2 .125" #12 Prismatic			
CSESO24 2'x4'	3-24 Three F24T5HO (120-277V only)	SB	Specified Ballast		G .125" Clear			
	4-24 Four F24T5HO (120-277V only)	DCC	Dimming Constant Current Driver		Tempered Glass			
	2-17 Two F17T8				TG .156" Textured Tempered Glass			
	3-17 Three F17T8				Specified Lens			
	4-17 Four F17T8				SL Specified Lens			
	6-17 Six F17T8				Options			
Lamp Quantity/Type	2'x4'	Ballast Quantity			Voltage			
1'x4'	45L35K* 45 Watt 3500K LED	1	One		120	120 Volts		
45L40K* 45 Watt 4000K LED	45L50K* 45 Watt 5000K LED	2	Two		277	277 Volts		
67L35K 67 Watt 3500K LED	67L40K 67 Watt 4000K LED	347	347 Volts (Consult factory)		347	347 Volts (Consult factory)		
67L50K 67 Watt 5000K LED	90L35K 90 Watt 3500K LED	DV	120-277 Volts					
90L40K 90 Watt 4000K LED	90L50K 90 Watt 5000K LED	Doorframe Options			2F		20-Ga Type 304 SS (STD)	
90L50K 90 Watt 5000K LED	1-32 One F32T8	5F	20-Ga CRS		2H		20-Ga CRS	
1-32 One F32T8	2-32 Two F32T8	XF	20-Ga Type 316 SS		PAF		.063" Painted Fabricated Aluminum	
2-32 Two F32T8	3-32 Three F32T8	Housing Options			5H		20-Ga Type 304 SS (STD)	
3-32 Three F32T8	1-44 One F48T8HO	2H	20-Ga CRS		XH		20-Ga Type 316 SS	
1-44 One F48T8HO	2-44 Two F48T8HO	PAH	.050" Painted Aluminum		Lens Type			
2-44 Two F48T8HO	1-54 One F54T5HO	Acrylic			SYM†		Symmetric, Diffused DR Acrylic (STD - LED)	
1-54 One F54T5HO	2-54 Two F54T5HO	T			T		.125" Clear	
2-54 Two F54T5HO	135L35K 135 Watt 3500K LED	U			U		.125" #12 Prismatic High Impact Acrylic (STD - FL)	
	135L40K 135 Watt 4000K LED	2-32			2-32		Two F32T8	
	135L50K 135 Watt 5000K LED	3-32			3-32		Three F32T8	
		4-32			4-32		Four F32T8	
		6-32			6-32		Six F32T8	
		2-44			2-44		Two F48T8HO	
		3-44			3-44		Three F48T8HO	
		4-44			4-44		Four F48T8HO	
		2-54			2-54		Two F54T5HO	
		3-54			3-54		Three F54T5HO	
		4-54			4-54		Four F54T5HO	
		6-54			6-54		Six F54T5HO	

- * Not available with six F54T5HO lamps or LED lamps
- ** Not available in combination with lens type T or G. If clear only lens is needed, leave lens type blank. FN option comes standard with FDA approved clear polycarbonate outer lens.
- † LED Only
- ‡ Not available with 1x4 in LED
- ▲ n/a with 135L or 180L Lamp Type
- Voltage specific selection required
- ▼ n/a with 2C Option
- ◇ Matching finishes and materials are recommended



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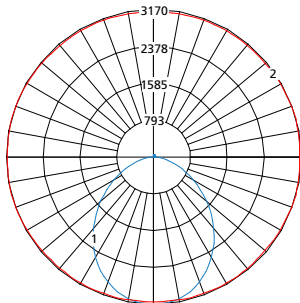
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PERFORMANCE

Model	Lamp Type	Initial Delivered Lumens				
		@ 25°C	Efficacy (lm/W)	Input Power (W)	Drive Current (mA)	Est'd. L70 LED Life (Hrs)
CSESO14	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
	90L35K	9,884	102	97	100	60,000
	90L40K	10,221	105	97	100	60,000
	90L50K	10,920	113	97	100	60,000
CSESO22	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
	90L35K	10,576	109	97	100	60,000
	90L40K	10,937	113	97	100	60,000
	90L50K	11,685	120	97	100	60,000
	135L35K	14,542	98	149	100	60,000
	135L40K	15,038	101	149	100	60,000
	135L50K	16,067	108	149	100	60,000
	CSESO24	45L35K	5,454	111	49	100
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
135L35K		16,436	112	147	100	60,000
135L40K		16,997	116	147	100	60,000
135L50K		18,160	124	147	100	60,000
180L35K		22,411	114	196	100	60,000
180L40K		23,176	118	196	100	60,000
180L50K	24,761	126	196	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.

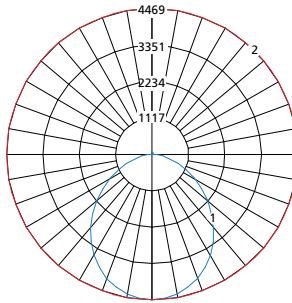
Model: CSESO14-67L40K-DCC-1-DV-2F-2H



Max 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.)

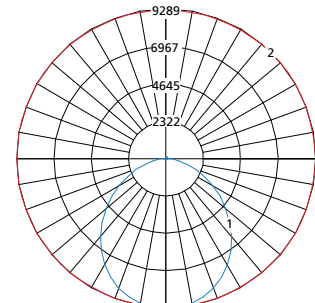
Model: CSESO22-90L40K-DCC-1-DV-2F-2H-SYM



Max Candela = 4469 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.)

Model: CSESO24-180L40K-DCC-1-DV-2F-2H-SYM



Max Candela = 9289 Located At Horizontal Angle = 0, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)



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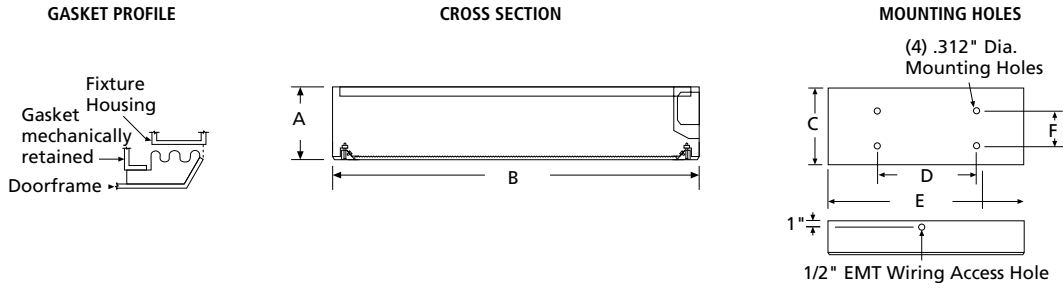
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DIMENSIONAL DATA



DIMENSIONAL DATA (IN INCHES)						
	A	B	C	D	E	F
1×4 (FL)	4.72	11.44×47.44	11.63	36.00	48.00	2.00
1×4(LED)	4.72	11.44×47.44	11.63	36.00	48.00	7.25
2×2 (FL)	4.72	23.44×23.44	23.63	12.00	24.00	12.00
2×2(LED)	4.72	23.44×23.44	23.63	12.00	24.00	19.25
2×4 (FL)	4.72	23.44×47.44	23.63	36.00	48.00	12.00
2×4(LED)	4.72	23.44×47.44	23.63	36.00	48.00	19.25



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