

# SIMPLESEAL™

## CSESI SERIES – SURFACE MOUNT – INSET DOOR

### PRODUCT FEATURES:

- » Surface ceiling mount – 1'x4', 2'x2', 2'x4'
- » One-piece inset door
- » Closed cell extruded silicone gasket seals doorframe to housing



### PROJECT INFORMATION

Job Name \_\_\_\_\_  
Fixture Type \_\_\_\_\_  
Catalog Number \_\_\_\_\_  
Approved by \_\_\_\_\_

### SPECIFICATIONS

**HOUSING:** 18-gauge CRS. Hole-free one-piece seam welded construction. White TGIC polyester powder coat – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

**DOORFRAME:** 18-gauge CRS. One-piece inset construction welded corners. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Doorframe secured to housing with aircraft cables and (8) for 1x4, 2x2, (10) for 2x4 captive mounted Phillips head stainless steel fasteners.

**OPTICS:** Symmetric optic includes diffused, impact-resistant acrylic lens.

**DOORFRAME GASKET:** Closed cell extruded silicone gasket seals doorframe to housing.

**ELECTRICAL:** Available 3000K, 3500K, 4000K and 5000K color temperatures, 82 CRI; maximum 3-step MacAdam variation allowance. 120-277VAC and 347VAC, 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 and dim-to-dark capabilities (non dim-to-dark with 347V; 600µA maximum source current per circuit). Optional 0-10V dimming with 0.1-100% range and dim-to-dark capabilities via eldoLED SOLOdrive series driver (n/a 347V input; ≤0.5V required from dimming control for dim-to-dark operation; 800µA max. source current). Consult factory for fluorescent options.

**SENSOR & CONTROLS:** Optional sensor available with compatible third party controls. To see the full list of compatible controls, [click here](#).

**WIRING ACCESS:** Standard wiring access hole on end of luminaire. See TWA Option for Top Access Wiring hole.

**INSTALLATION:** Four .312" (.79cm) holes for surface mounting. Standard with side feed hole, see options for Top Wiring Access (TWA).

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

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. Certified IP65 per IEC 60598. FED-STD-209E/Class 1 (ISO 3) Cleanrooms. NSF2 Splash/Non-Food Zone. Suitable for biosafety labs rated BSL 1 and 2.



### ORDERING INFORMATION (Ex: CSESI14-67L-40K8-DIM1-120-2F-2H-SYM-DLN)

Model	Lamp Qty/Type	Driver Type	Voltage	Doorframe Option	Housing	Optics	Options
SYM							
<b>Model</b>		<b>Lamp Color</b>			<b>Housing Options†</b>		<b>Options</b>
CSESI14	1'x4'	30K8	3000K / 82 CRI min.		2H	18-Ga CRS (STD)	LEL‡ 8.4W Emergency Battery Pack
CSESI22	2'x2'	35K8	3500K / 82 CRI min.		5H	18-Ga Type 304 SS Brushed	DLN LED Night Light w/Light Level Control (100%-20%, voltage-specific selection required, n/a with 347V)
CSESI24	2'x4'	40K8	4000K / 82 CRI min.		PAH	.050" Painted Aluminum	AMF▼ Antimicrobial Finish
		50K8	5000K / 82 CRI min.				HJ Sealed Wireway
<b>Lamp Power</b>		<b>Driver Type</b>			<b>Optics</b>		MS Motion Sensor (n/a with 347V)
1'x4'		DIM1	0-10V Dimming to 1%		SYM	Symmetric, Diffused DR Acrylic (STD)	PM▲ Pendant Mounting Holes
45L	45 Watt LED	DIM01	0-10V Dimming to 0.1% (n/a with 347V)				TH 1/2" Trade Size Threaded Hub
67L	67 Watt LED						TWA Top Access Wiring Hole
90L	90 Watt LED						
<b>2'x2'</b>		<b>Voltage</b>					
45LD	45 Watt Dual-Row LED	DV	120-277VAC, 50/60Hz				* LEL n/a with 347V option
67L	67 Watt LED	120	120VAC				‡ n/a with 135L or 180L Lamp Type. Voltage-specific selection required; n/a with 347V. 0°C/32°F min. operating environment.
90L	90 Watt LED	277	277VAC				▲ n/a in 1x4
		347*	347VAC				† Matching finishes and materials are recommended
<b>2'x4'</b>		<b>Doorframe Options†</b>					▼ Applied only to exposed painted surfaces of luminaire (not available on stainless steel doorframes or housings)
45LD	45 Watt Dual-Row LED	2F	18-Ga CRS Painted (STD)				
67L	67 Watt LED	PAF	.063" Painted Fabricated Aluminum				
90L	90 Watt LED						
135L	135 Watt LED						
180L	180 Watt LED	5F	20-Ga Type 304 SS Brushed				



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PERFORMANCE		Initial Delivered Lumens		Input Power (W)	Drive Current (mA)	Estd. L70 LED Life (Hrs)
Model	Lamp Type	@ 25°C	Efficacy (lm/W)			
CSESI14	45L-30K8	5,241	107	49	100	80,000
	45L-35K8	5,491	112			
	45L-40K8	5,587	114			
	45L-50K8	5,811	119			
	67L-30K8	8,028	112	72	75	80,000
	67L-35K8	8,412	117			
	67L-40K8	8,559	119			
	67L-50K8	8,901	124			
	90L-30K8	10,243	105	98	100	60,000
	90L-35K8	10,732	110			
	90L-40K8	10,920	111			
	90L-50K8	11,357	116			
CSESI22	45LD-30K8	5,069	103	49	100	80,000
	45LD-35K8	5,311	108			
	45LD-40K8	5,404	110			
	45LD-50K8	5,620	115			
	67L-30K8	7,765	108	72	75	80,000
	67L-35K8	8,136	113			
	67L-40K8	8,278	115			
	67L-50K8	8,609	120			
	90L-30K8	9,978	102	98	100	60,000
	90L-35K8	10,454	107			
	90L-40K8	10,637	109			
	90L-50K8	11,062	113			
CSESI24	45LD-30K8	5,953	129	46	50	100,000
	45LD-35K8	6,238	136			
	45LD-40K8	6,347	138			
	45LD-50K8	6,601	144			
	67L-30K8	8,281	115	72	75	80,000
	67L-35K8	8,677	121			
	67L-40K8	8,828	123			
	67L-50K8	9,181	128			
	90L-30K8	10,641	109	98	100	60,000
	90L-35K8	11,149	114			
	90L-40K8	11,344	116			
	90L-50K8	11,798	120			
	135L-30K8	15,084	103	147	100	60,000
	135L-35K8	15,805	108			
	135L-40K8	16,081	109			
	135L-50K8	16,724	114			
	180L-30K8	20,568	105	196	100	60,000
	180L-35K8	21,550	110			
	180L-40K8	21,927	112			
	180L-50K8	22,804	116			

Displayed information is for selected luminaires only. Additional wattages and color temperatures are also available. Visit [www.kenall.com](http://www.kenall.com) for additional information.



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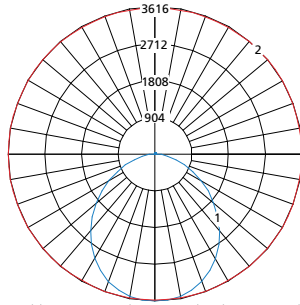
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### PERFORMANCE

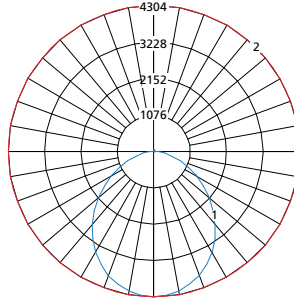
Model: CSESI-14-67L-40K8-DIM1-DV-2F-2H-SYM



Maximum Candela = 3616 Located At Horizontal Angle = 15, Vertical Angle = 5

1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)  
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

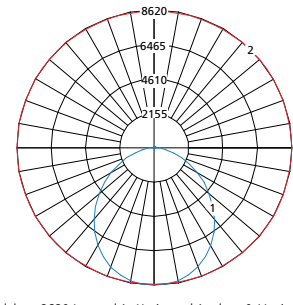
Model: CSESI-22-90L-40K8-DIM1-DV-2F-2H-SYM



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.)

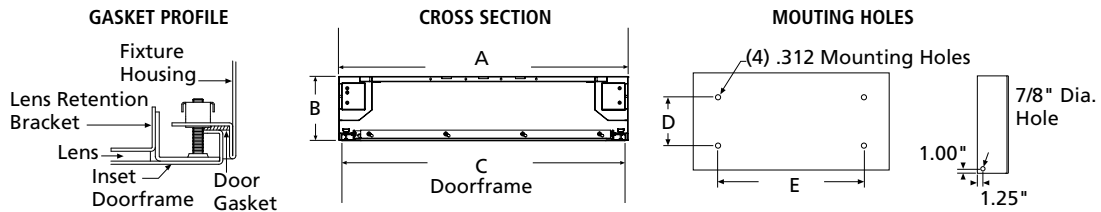
Model: CSESI-24-180L-40K8-DIM1-DV-2F-2H-SYM



Max Candela = 8620 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.)

### DIMENSIONAL DATA



Side wiring access shown  
See options for Top wiring access (TWA)

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

	A	B	C	D	E
<b>1x4</b>	10.60x48.13	5.00	10.20x47.70	6.00	36.00
<b>30.48cmx121.92cm</b>	26.92x122.25	12.70	25.91x121.16	15.24	71.12
<b>2x2</b>	22.60x24.13	5.00	22.20x23.70	17.00	13.00
<b>60.96cmx60.96cm</b>	57.40x61.29	12.70	56.39x60.20	43.18	33.02
<b>2x4</b>	22.60x48.13	5.00	22.20x47.70	17.00	36.00
<b>60.96cmx121.92cm</b>	57.40x122.25	12.70	56.39x121.16	43.18	91.44


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