

# SIMPLESEAL™

## CSERI SERIES – INSET DOOR USING KORE TECHNOLOGY™

### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

#### PRODUCT FEATURES:

- » Designed specifically to improve the visual performance while providing industry leading efficacy of up to 153 lm/W
- » Distribution provides uniform flat-field illumination, suppressing central hot spots and allowing greater ceiling spacing
- » Evenly illuminated diffuser with reduced surface brightness
- » 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



#### SPECIFICATIONS

**HOUSING:** Standard 24-gauge cold rolled steel with dust-tight, sealed construction. Alternate material options available. Rigid housing flange with mitered and welded corners. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours. Internal surfaces use a proprietary high reflectance coating (Reflectance: >92%). Flange finish matches housing, regardless of doorframe finish.

**DOORFRAME:** Standard 20-gauge cold rolled steel. One-piece onset style construction with welded corners. Steel and Aluminum selections are finished with gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Optional 20-gauge type 304 stainless steel (#4 finish-post fabrication). Doorframe secured to housing with stainless steel aircraft cables and captive flush mounted Phillips head stainless steel fasteners (8) for 1x4 and 2x2, (10) for 2x4.

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

**OPTICS:** Injection molded high refraction polycarbonate optics provided for each LED. Proprietary KORE Technology™ (Kenall Optical Radiance Engine) delivers improved visual performance and uniform diffuser luminance, impact-resistant acrylic lens (<1.5/1 max/min ratio within full lens area).

**ELECTRICAL:** Available 3000K, 3500K, 4000K and 5000K color temperatures with maximum 3-step MacAdam variation allowance. Minimum 80 CRI (R9 >0) or 90 CRI (R9 >50) options. 120-277VAC, 50/60Hz electrical input with room-side 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). 330µA maximum source current.

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

**INSTALLATION:** 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. Universal installation into grid or flange (drywall) ceiling applications. See below for install frames, optionally used for flange mount in hard ceilings (not required).

**PHOTOMETRICS:** Photometry tested to the IESNA LM-79-08 standard. For additional photometric data, please go to [www.kenall.com](http://www.kenall.com)

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

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location and IC recessed installations. Certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved. Suitable for biosafety labs rated BSL 1-2. Meets Standard for FED-STD-209E/Class 1 (ISO 3-9) Cleanrooms. Suitable for installation into -30°C to 40°C ambient environments, unless otherwise noted.



#### ORDERING INFORMATION (Ex: CSERI-24-60L-40K8-DIM1-DV-2F-4H-SYMW)

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options	Accessories
<b>CSERI</b>				<b>DIM1</b>				<b>SYMW</b>		
<b>Size</b>			<b>Lamp Color</b>					<b>Housing Options</b>		
14	1'x4'		30K8 3000K / 80 CRI min.					4H 24-Ga CRS in White (STD)		
22	2'x2'		35K8 3500K / 80 CRI min.					2H 20-Ga CRS in White		
24	2'x4'		35K9 3500K / 90 CRI min.					PSH 20-Ga Type 304 SS in White		
		<b>Lamp Power</b>	40K8 4000K / 80 CRI min.					PXH 20-Ga Type 316 SS in White		
		1'x4'	40K9 4000K / 90 CRI min.					PAH .050" Aluminum in White		
		14L 14 Watt LED	50K8 5000K / 80 CRI min.							
		24L 24 Watt LED		<b>Driver Type</b>				<b>Optics</b>		
		30L 30 Watt LED		DIM1 0-10V Dimming to 1% with Dim-to-Dark (non dim-to-dark with 347V)				SYMW Wide Symmetric, Diffused DR Acrylic		
		48L 48 Watt LED								
		60L 60 Watt LED						<b>Options</b>		
	2'x2'							LEL 10W Emergency Battery Pack (n/a with 347V; 0°C/32°F min operating environment)		
	14L 14 Watt LED			<b>Voltage</b>				AMF* Antimicrobial Finish		
	24L 24 Watt LED			DV 120-277VAC, 50/60Hz				FS Fuse & Holder		
	30L 30 Watt LED			347 347VAC, 60hz				HJ Sealed Wireway		
	42L 42 Watt LED									
	48L 48 Watt LED			<b>Doorframe Options</b>				<b>Accessories</b>		
	60L 60 Watt LED			2F 20-Ga CRS in Gloss White (STD)				IF*† Install Frame		
				5F 20-Ga Type 304 SS with 4B Brushed Finish						
				XF 20-Ga Type 316 SS with 4B Brushed Finish						
				PAF Fabricated Aluminum in Gloss White						
	2'x4'									
	28L 28 Watt LED									
	48L 48 Watt LED									
	60L 60 Watt LED									
	84L 84 Watt LED									
	96L 96 Watt LED									
	120L 120 Watt LED									

\* Add .375" to ceiling cut out dimensions  
 † Optionally used for flange mount in hard ceilings (not required)  
 ▲ 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  
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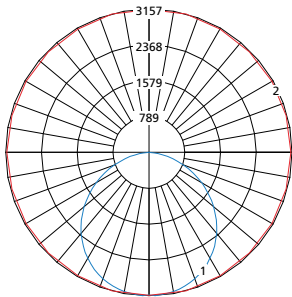
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## CSERI SERIES – INSET DOOR USING KORE TECHNOLOGY™

PERFORMANCE		Initial Delivered Lumens, By Lamp Color (lm)						Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
Size	Lamp Power	30K8	35K8	35K9	40K8	40K9	50K8			
1' x 4'	14L	2,092	2,113	1,795	2,188	1,848	2,209	100 - 123	18	>72,000
	24L	3,445	3,480	2,956	3,603	3,043	3,638	104 - 128	28	
	30L	4,169	4,211	3,577	4,360	3,682	4,402	107 - 132	33	
	48L	6,583	6,650	5,647	6,884	5,815	6,951	105 - 129	54	
	60L	8,086	8,168	6,937	8,456	7,142	8,538	105 - 129	66	
2' x 2'	14L	2,236	2,259	1,918	2,338	1,975	2,361	107 - 131	18	>72,000
	24L	3,600	3,636	3,088	3,764	3,179	3,801	112 - 138	27	
	30L	4,400	4,444	3,774	4,601	3,886	4,645	113 - 139	33	
	42L	6,167	6,230	5,291	6,449	5,447	6,511	114 - 140	47	
	48L	6,996	7,067	6,002	7,316	6,179	7,387	110 - 135	55	
2' x 4'	60L	8,597	8,684	7,375	8,990	7,593	9,077	109 - 135	67	>72,000
	28L	4,811	4,859	4,127	5,030	4,249	5,079	122 - 150	34	
	48L	8,062	8,144	6,916	8,430	7,121	8,512	124 - 153	56	
	60L	9,781	9,880	8,391	10,228	8,639	10,327	124 - 152	68	
	84L	13,270	13,405	11,384	13,876	11,721	14,011	122 - 151	93	
	96L	15,111	15,264	12,963	15,801	13,346	15,954	118 - 146	110	
120L	18,496	18,684	15,867	19,341	16,337	19,529	119 - 147	133		

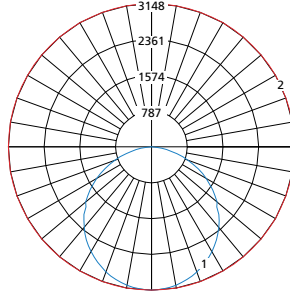
NOTE: Information subject to change without notice. All testing conducted by an ILAC/ISO17025 accredited laboratory. Please visit [www.kenall.com](http://www.kenall.com) for IES files and additional information.

Model: CSERI-14-60L-40K8-DIM1-xxx-yyy-SYMW-zzz



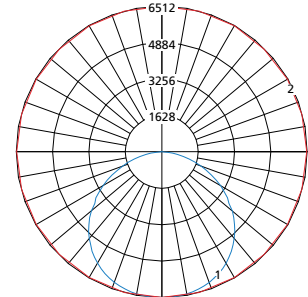
Maximum Candela = 3157 Located At Horizontal Angle = 75, Vertical Angle = 2.5  
 1 - Vertical Plane Through Horizontal Angles (75-255) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: CSERI-22-60L-40K8-DIM1-xxx-yyy-SYMW-zzz



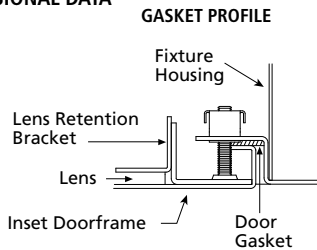
Maximum Candela = 3148 Located At Horizontal Angle = 0, Vertical Angle = 0  
 1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

Model: CSERI-24-120L-40K8-DIM1-xxx-yyy-SYMW-zzz

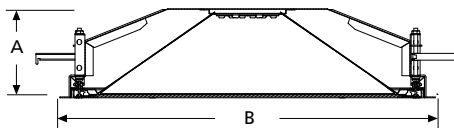


Max Candela = 6512 Located At Horizontal Angle = 90, Vertical Angle = 2.5  
 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

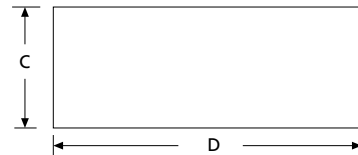
### DIMENSIONAL DATA



### CROSS SECTION



### CEILING CUTOUT



DIMENSIONAL DATA (IN INCHES)				
	A	B	C	D
1x4	5.22	11.75 x 47.75	10.85	46.85
2x2	5.22	23.75 x 23.75	22.85	22.85
2x4	5.22	23.75 x 47.75	22.85	46.85

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



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