SIMPLESEAL™
CSERI SERIES – INSET DOOR USING KORE TECHNOLOGY™

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'×4', 2'×2', 2'×4'

» Suitable for universal installation into 1.0" and 1.5" grid or flange (drywall) ceilings

» One piece inset doorframe

1'×4'   **2'×2'**   **2'×4'**

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 1×4 and 2×2, (10) for 2×4.

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, underline 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

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.

LED | **KORE TECHNOLOGY™** | **ETL c/us** | **IP65** | **NSF** | **ISO 3 Class 1** | **CCEA Approved** | **BSL 1-2**

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
CSERI				DIM1				SYMW		

Size
- **14** 1'×4'
- **22** 2'×2'
- **24** 2'×4'

Lamp Power

1'×4'
- **14L** 14 Watt LED
- **24L** 24 Watt LED
- **30L** 30 Watt LED
- **48L** 48 Watt LED
- **60L** 60 Watt LED

2'×2'
- **14L** 14 Watt LED
- **24L** 24 Watt LED
- **30L** 30 Watt LED
- **42L** 42 Watt LED
- **48L** 48 Watt LED
- **60L** 60 Watt LED

2'×4'
- **28L** 28 Watt LED
- **48L** 48 Watt LED
- **60L** 60 Watt LED
- **84L** 84 Watt LED
- **96L** 96 Watt LED
- **120L** 120 Watt LED

Lamp Color
- **30K8** 3000K / 80 CRI min.
- **35K8** 3500K / 80 CRI min.
- **35K9** 3500K / 90 CRI min.
- **40K8** 4000K / 80 CRI min.
- **40K9** 4000K / 90 CRI min.
- **50K8** 5000K / 80 CRI min.

Driver Type
- **DIM1** 0-10V Dimming to 1% with Dim-to-Dark (non dim-to-dark with 347V)

Voltage
- **DV** 120-277VAC, 50/60Hz
- **347** 347VAC, 60hz

Doorframe Options
- **2F** 20-Ga CRS in Gloss White (STD)
- **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

Housing Options
- **4H** 24-Ga CRS in White (STD)
- **2H** 20-Ga CRS in White
- **P5H** 20-Ga Type 304 SS in White
- **PXH** 20-Ga Type 316 SS in White
- **PAH** .050" Aluminum in White

Optics
- **SYMW** Wide Symmetric, Diffused DR Acrylic

Options
- **LEL** 10W Emergency Battery Pack (n/a with 347V; 0°C/32°F min operating environment)
- **FN** Food Zone Non-Contact (no thumb screws)
- **AMF▲** Antimicrobial Finish
- **FS** Fuse & Holder
- **HJ** Sealed Wireway

Accessories
- **IF*†** Install Frame

* 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)

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PERFORMANCE

| Size	Lamp Power	Initial Delivered Lumens, By Lamp Color (lm)						Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
		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	
	60L	8,597	8,684	7,375	8,990	7,593	9,077	109 - 135	67	
2' x 4'	28L	4,811	4,859	4,127	5,030	4,249	5,079	122 - 150	34	>72,000
	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 for IES files and additional information.

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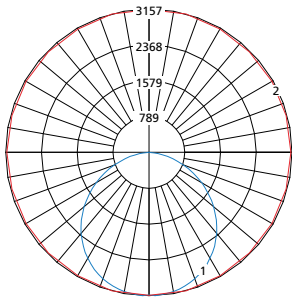
3157
2368
1579
789

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.)
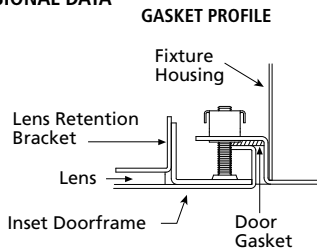
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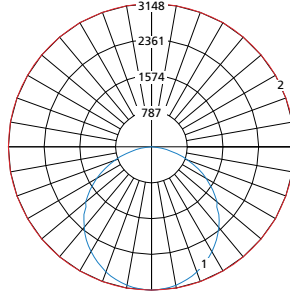
3148
2361
1574
787

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
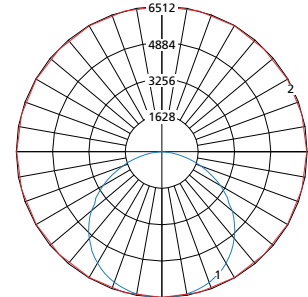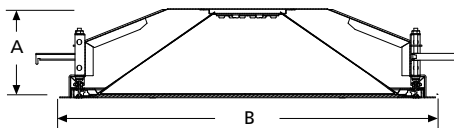

6512
4884
3256
1628

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

GASKET PROFILE

Fixture Housing
Lens Retention Bracket
Lens
Inset Doorframe
Door Gasket

CROSS SECTION

A
B

CEILING CUTOUT

C
D

DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
1×4	5.22	11.75 × 47.75	10.85	46.85
2×2	5.22	23.75 × 23.75	22.85	22.85
2×4	5.22	23.75 × 47.75	22.85	46.85

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