

SIMPLESEAL™

CSERO SERIES – OVERLAPPING 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 152 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 overlapping 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%).

DOORFRAME: Standard 20-gauge Type 304 brushed stainless steel. One-piece overlapping style construction with welded corners and 60 degree beveled perimeter. Cold rolled steel and Aluminum selections are finished with gloss white TGIC polyester powder coat finish with 5-stage pre-treatment. Doorframe secured to housing with stainless steel aircraft cables and captive flush mounted Phillips head stainless steel fasteners (10) for 1x4, (8) for 2x2, (12) for 2x4.

DOORFRAME GASKET: One-piece closed-cell, NSF listed extruded Nitrile gasket with vulcanized corners seals doorframe to housing and ceiling structure.

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 Options below for install frames.

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 IP66 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved. Suitable for biosafety labs rated BSL 1 thru 4. 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: CSERO-24-60L-40K8-DIM1-DV-5F-4H-SYMW)

Model	Size	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Optics	Options	Accessories
CSERO				DIM1				SYMW		
Size			Lamp Color				Housing Options			
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.			P5H	20-Ga Type 304 SS in White		
			40K8	4000K / 80 CRI min.			PXH	20-Ga Type 316 SS in White		
			40K9	4000K / 90 CRI min.			PAH	.050" Aluminum in White		
			50K8	5000K / 80 CRI min.						
Lamp Power				Driver Type			Optics			
1'x4'				DIM1	0-10V Dimming to 1% with Dim-to-Dark (non dim-to-dark with 347V)		SYMW	Wide Symmetric, Diffused DR Acrylic		
14L	14 Watt LED			Voltage			Options			
24L	24 Watt LED			DV	120-277VAC, 50/60Hz		LEL	10W Emergency Battery Pack (n/a with 347V; 0°C/32°F min operating environment)		
30L	30 Watt LED			347	347VAC, 60Hz		FN	Food Zone Non-Contact (no thumb screws)		
48L	48 Watt LED			Doorframe Options			AMF▲	Antimicrobial Finish		
60L	60 Watt LED			5F	20-Ga Type 304 SS with 4B Brushed Finish (STD)		FS	Fuse & Holder		
				2F	20-Ga CRS in Gloss White		HJ	Sealed Wireway		
				XF	20-Ga Type 316 SS with 4B Brushed Finish		Accessories			
				PAF	Fabricated Aluminum in Gloss White		IF*†	Install Frame		
2'x2'										
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'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)



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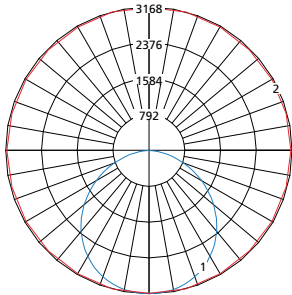
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PERFORMANCE		Initial Delivered Lumens, By Lamp Color (lm)						Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
Size	Lamp Power	30K8	35K8	35K9	40K8	40K9	50K8			
1' x 4'	14L	2,099	2,121	1,801	2,195	1,854	2,217	100 - 123	18	>72,000
	24L	3,457	3,492	2,966	3,615	3,054	3,650	104 - 128	28	
	30L	4,184	4,226	3,589	4,375	3,695	4,417	108 - 132	33	
	48L	6,606	6,673	5,667	6,908	5,835	6,975	105 - 130	54	
	60L	8,114	8,197	6,961	8,485	7,167	8,567	104 - 128	67	
2' x 2'	14L	2,154	2,176	1,848	2,252	1,902	2,274	103 - 126	18	>72,000
	24L	3,467	3,502	2,974	3,626	3,062	3,661	108 - 133	27	
	30L	4,238	4,281	3,636	4,432	3,743	4,475	109 - 134	33	
	42L	5,940	6,000	5,096	6,212	5,247	6,272	109 - 135	47	
	48L	6,739	6,807	5,781	7,046	5,952	7,115	106 - 130	55	
2' x 4'	60L	8,281	8,365	7,104	8,659	7,314	8,743	104 - 128	68	>72,000
	28L	4,782	4,831	4,103	5,001	4,224	5,049	121 - 149	34	
	48L	8,015	8,096	6,875	8,381	7,079	8,462	124 - 152	56	
	60L	9,723	9,822	8,341	10,168	8,588	10,266	123 - 151	68	
	84L	13,192	13,326	11,317	13,795	11,652	13,929	122 - 150	93	
	96L	15,022	15,175	12,887	15,708	13,268	15,861	118 - 145	110	
120L	18,388	18,574	15,774	19,228	16,241	19,414	115 - 142	137		

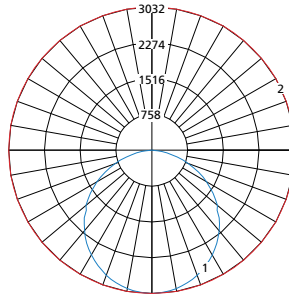
NOTE: Information subject to change without notice. All testing conducted by an ILAC/ISO17025 accredited laboratory. Please visit www.kenall.com for IES files and additional information.

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



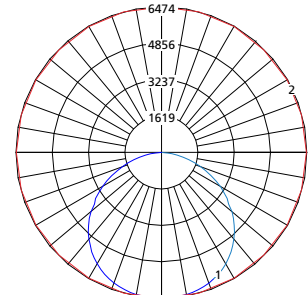
Maximum Candela = 3168 Located At Horizontal Angle = 75, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (75-255) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

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



Maximum Candela = 3032 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.)

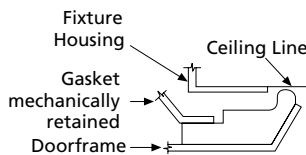
Model: CSERO-24-120L-40K8-DIM1-xxx-yyy-SYMW-zzz



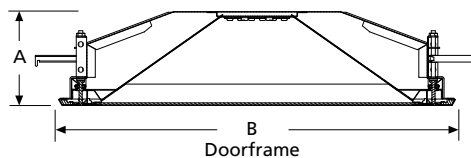
Max Candela = 6474 Located At Horizontal Angle = 90, Vertical Angle = 2.5
 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DIMENSIONAL DATA

GASKET PROFILE



CROSS SECTION



CEILING CUTOUT



DIMENSIONAL DATA (IN INCHES)

	A	B	C	D
1x4	5.50	11.94 x 47.94	10.85	46.85
2x2	5.50	23.94 x 23.94	22.85	22.85
2x4	5.50	23.94 x 47.94	22.85	46.85

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



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