

# SIMPLESEAL™

## Luminaires for Cleanrooms ISO 5-8

### CSSGI SERIES – INSET DOOR

#### PRODUCT FEATURES:

- » Suitable for ISO 5-8 cleanroom spaces
- » Recessed grid installation - 2x2 and 2x4 size options
- » Edge-lit LED light engine for minimal luminaire intrusion into the plenum space (<2.0" depth)
- » Anodized extruded aluminum inset door construction allows for room-side servicing
- » High-output, high-CRI LED lamp sources provide up to 8,600lm output



#### SPECIFICATIONS

**HOUSING:** Precision-formed 24-gauge cold rolled steel. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

**DOORFRAME:** Extruded 6063-T5 aluminum construction with clear anodized finish as standard. Optional TGIC polyester powder coat finish in Gloss White. Doorframe serves as integral heat sink to the edge-lit LED light engine. Secured to housing via aircraft cables and flush-mounted Phillips-head fasteners.

**OPTICS:** Edge-lit, laser-etched light guide panel in acrylic with high-efficiency backing reflector. Outer diffuser in acrylic.

**ELECTRICAL:** Available 3000K, 3500K, 4000K and 5000K color temperatures with maximum 3-step MacAdam variation allowance. Standard min. 80 CRI, optional min 90 CRI. 120-277VAC and 347VAC, 50/60Hz electrical input with serviceable high power factor electronic, constant-current driver (<20% THD, >0.90 PF). Standard 0-10V dimming with 10-100% range without dim-to-dark capabilities; 0.4mA max. source current per luminaire. Optional 0-10V dimming to 1% with dim-to-dark capabilities; 0.2mA max. source current per luminaire. Optional DALI-2 DT6 driver with 1-100% dimming range without dim-to-dark capabilities.

**SENSOR & CONTROLS:** Optional embedded microwave motion sensor mounted behind light guide panel. Remote adjustment for dim level, timeout period and sensor sensitivity settings. Factory default is 30% dimming and 20min. timeout. Sensor operates at 5.8 GHz (continuous-wave radar) and provides 360° coverage at various mounting heights and coverage areas. To see the full list of third-party compatible controls, [click here](#).

**INSTALLATION:** Suitable for Type-IC recessed ceiling installation into 9/16" and 15/16" lay-in grid ceilings. Wire access panel on rear of housing allows wire connections without door removal. See Accessories for adapter kit for drywall ceiling installation. Suitable for -20°C to 40°C ambient environments, unless otherwise noted.

**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 Indoor Wet Locations. NSF2 Splash/Non-Food Zone. CCEA Approved. Suitable for ISO5-8 cleanroom environments.



#### ORDERING INFORMATION (Ex: CSSGI-24-46L-35K8-DIM10-DV-AF-4H-BA)

Model	Size	Ceiling Type	Lamp Power	Lamp Color	Driver	Voltage	Doorframe	Housing	Options	Accessories
<b>CSSGI</b>		<b>G</b>						<b>4H</b>		
<b>Size</b>	<b>22</b> 2'x2' <b>24</b> 2'x4'	<b>Lamp Power</b>	<b>20L</b> <sup>^</sup> 20 Watt LED <b>24L</b> 24 Watt LED <b>27L</b> 27 Watt LED <b>33L</b> 33 Watt LED <b>36L</b> 36 Watt LED	<b>Driver Type</b>	<b>DIM10</b> <sup>^</sup> 0-10V Dimming to 10% (STD) <b>DIM1</b> 0-10V Dimming to 1% with Dim-to-Dark Capabilities <b>DALI</b> <sup>^</sup> DALI Dimming to 1%	<b>Options</b>	<b>LEL</b> <sup>^</sup> Integral 10W Emergency Battery Backup with sealed test switch/indicator mounted at outer diffuser surface (0°C min. ambient) <b>20KV</b> 20KV/KV Surge Protection per IEEE/ANSI C62.41.2 Cat. A <b>AMF</b> <sup>^</sup> Antimicrobial Finish <b>FS</b> Fuse & Holder <b>MS</b> <sup>^</sup> Embedded Motion Sensor <b>TH</b> 1/2" Trade Size Threaded Sealed Hub <b>BA</b> Buy American Act Compliance	<b>26L</b> 26 Watt LED <b>46L</b> 46 Watt LED <b>54L</b> 54 Watt LED <b>65L</b> 65 Watt LED	<b>Accessories</b>	<b>FA</b> Flange Adapter Kit
<b>Ceiling Type</b>	<b>G</b> Grid Ceiling	<b>Lamp Color</b>	<b>30K8</b> 3000K / 80 CRI min. <b>35K8</b> 3500K / 80 CRI min. <b>35K9</b> 3500K / 90 CRI min. <b>40K8</b> 4000K / 80 CRI min. <b>40K9</b> 4000K / 90 CRI min. <b>50K8</b> 5000K / 80 CRI min.	<b>Voltage</b>	<b>DV</b> 120-277VAC, 50/60Hz <b>347</b> 347VAC	<b>Doorframe Options</b>	<b>AF</b> Anodized Aluminum (STD) <b>PAF</b> Painted Aluminum in Gloss White	<b>Housing Options</b>	<b>4H</b> 24-Ga CRS in Gloss White (STD)	<sup>^</sup> n/a with 347V input <sup>^</sup> Applied only to exposed painted surfaces of luminaire (requires PAF doorframe option)



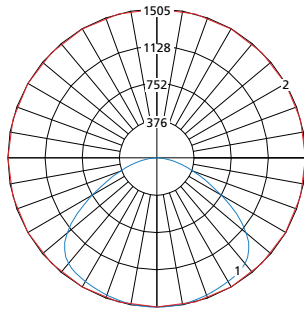
**CSSGI SERIES – TECHNICAL DATA**

**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			
2' x 2'	20L	2,561	2,587	2,197	2,678	2,262	2,704	97 - 119	23	>72,000
	24L	3,197	3,230	2,743	3,343	2,824	3,376	102 - 126	27	
	27L	3,421	3,456	2,935	3,577	3,021	3,612	102 - 126	29	
	33L	4,023	4,064	3,451	4,207	3,553	4,247	100 - 124	34	
	36L	4,486	4,531	3,848	4,691	3,962	4,736	102 - 125	38	
2' x 4'	26L	3,564	3,600	3,058	3,727	3,148	3,763	107 - 131	29	>72,000
	38L	5,320	5,374	4,564	5,563	4,699	5,617	107 - 132	43	
	46L	6,243	6,306	5,355	6,528	5,514	6,591	106 - 131	50	
	54L	6,725	6,794	5,769	7,033	5,940	7,101	101 - 124	57	
	65L	8,182	8,265	7,019	8,556	7,227	8,639	101 - 125	69	

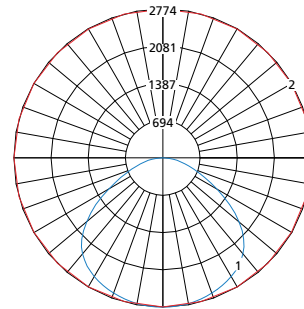
NOTE: Information subject to change without notice. All testing conducted by an ILAC/ISO17025 accredited laboratory. Please visit [www.kenall.com](http://www.kenall.com) for IES files and additional information.

Model: CSSGI-22-G-36L-40K8-uu-vv-ww-4H-yy-zz



Maximum Candela = 1505 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: CSSGI-24-G-65L-40K8-uu-vv-ww-4H-yy-zz



Maximum Candela = 2774 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.)

**DIMENSIONAL DATA**

