

SIMPLESEAL™ ENVIRONMENTAL ESEDI SERIES – LED – INSET DOOR

PROJECT INFORMATION

Job Name _____
 Fixture Type _____
 Catalog Number _____
 Approved by _____

PRODUCT FEATURES:

- » High-output, high-CRI LED lamp sources for accurate color rendition and lighting performance
- » Diffused high-efficiency lens for reduced glare
- » Recessed ceiling mount; grid or flange - 1'x4', 2'x2', 2'x4'
- » Closed cell extruded silicone gasket seals doorframe to housing
- » ETL certified IP65 per IEC 60598
- » Continuous piano hinge



1'x4'

2'x2'

2'x4'

SPECIFICATIONS

HOUSING: Standard 24-gauge (optional 20-gauge) cold rolled steel, hole-free, one-piece, seam-welded construction. 18-gauge housing flange with mitered and welded corners. White TGIC polyester powder coat finish – 5-step 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 – 5-stage pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Lens frame secured to housing with continuous hinge and (2) for 2x2, (3) for 1x4, 2x4 captive mounted Phillips head stainless steel fasteners. Closed cell extruded silicone gasket seals doorframe to housing.

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

ELECTRICAL: Available 3000K, 3500K, 4000K and 5000K color temperatures with maximum 3-step MacAdam variation allowance. 120-277VAC, or 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); 660 µA max. source current.

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

INSTALLATION: Non-IC 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 for continuous row mounting and 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 warranty.

LISTINGS: Certified to UL Standards by Intertek Testing Laboratory for Wet Location. ETL certified IP65 per IEC 60598. CCEA approved. ESEDI is participating in Declare.



ORDERING INFORMATION (Ex: ESEDI-24-67L-40K8-DIM1-DV-2F-4H-SYM)

| Model | Size | Lamp Power | Lamp Color | Driver | Voltage | Doorframe | Housing | Optics | Options | Accessories |
|-----------------|------|----------------------------------|------------|---|---------|-----------|---------|--|---------|-------------|
| ESEDI | | | | DIM1 | | | | SYM | | |
| Size | | Lamp Power | | Driver Type | | | | Options | | |
| 14 1'x4' | | 1'x4' | | DIM1 0-10V Dimming to 1% | | | | LEL † 8.4W Emergency Battery Pack | | |
| 22 2'x2' | | 45L 45 Watt LED | | Voltage | | | | 20KV 20KV/KA Surge Protection per IEEE/ANSI C62.41.2 Cat. A | | |
| 24 2'x4' | | 67L 67 Watt LED | | DV 120-277VAC, 50/60Hz | | | | AMF ▲ Antimicrobial Finish | | |
| | | 90L 90 Watt LED | | 120 120VAC | | | | FS Fuse & Holder | | |
| | | 2'x2' | | 277 277VAC | | | | HJ Sealed Wireway | | |
| | | 45LD 45 Watt Dual-Row LED | | 347 347VAC | | | | MS Motion Sensor (n/a with 347 Voltage Option) | | |
| | | 67L 67 Watt LED | | Doorframe Options | | | | RF • Radio Frequency Filter | | |
| | | 90L 90 Watt LED | | 2F 18-Ga CRS Painted (STD) | | | | RM † Continuous Row Mounting | | |
| | | 2'x4' | | AF Anodized Aluminum | | | | 2C Two Circuit Wiring | | |
| | | 45LD 45 Watt Dual-Row LED | | PAF Painted Fabricated Aluminum | | | | Accessories | | |
| | | 67L 67 Watt LED | | 5F 20-Ga Type 304 SS Brushed | | | | IF *† Install Frame | | |
| | | 90L 90 Watt LED | | Housing Options | | | | | | |
| | | 135L 135 Watt LED | | 4H 24-Ga CRS (STD) | | | | | | |
| | | 180L 180 Watt LED | | 2H 20-Ga CRS | | | | | | |
| | | Lamp Color | | 5H 20-Ga Type 304 SS | | | | | | |
| | | 30K8 3000K / 82 CRI min. | | PAH .050" Painted Aluminum | | | | | | |
| | | 35K8 3500K / 82 CRI min. | | Optics | | | | | | |
| | | 40K8 4000K / 82 CRI min. | | SYM Symmetric, Diffused DR Acrylic | | | | | | |
| | | 50K8 5000K / 82 CRI min. | | | | | | | | |

* Add .375" to ceiling cut out dimensions

† Only available when installed in drywall ceilings (flange mount)

• Voltage specific selection required

‡ n/a with 180L lamp option or 347V input; voltage-specific selection required and height of fixture is 5.875" when specified with 135L lamp option; 0°C/32°F min. operating environment.

▲ Applied only to exposed painted surfaces of luminaire (not available on stainless steel doorframes)



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| PERFORMANCE | | Initial Delivered Lumens | | Input Power (W) | Drive Current (mA) | Estd. L ₇₀ LED Life (Hrs) |
|-------------|-----------|--------------------------|-----------------|-----------------|--------------------|--------------------------------------|
| Model | Lamp Type | @ 25°C | Efficacy (lm/W) | | | |
| ESEDI-14 | 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 | | | |
| ESEDI-22 | 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 | | | |
| ESEDI-24 | 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 for additional information.



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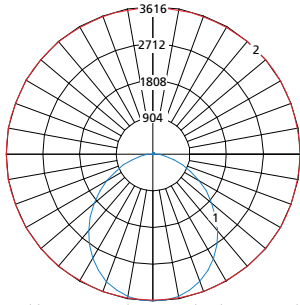
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PERFORMANCE

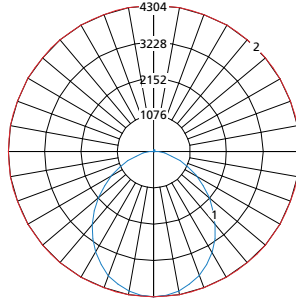
Model: ESEDI-14-67L-40K8-DIM1-DV-2F-2H-SYM



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.)

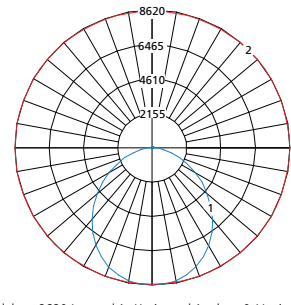
Model: ESEDI-22-90L-40K8-DIM1-DV-2F-2H-SYM



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

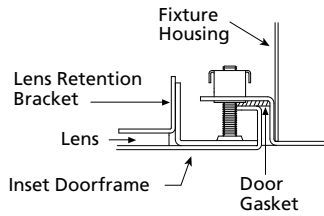


Max Candela = 8620 Located At Horizontal Angle = 0, Vertical Angle = 5

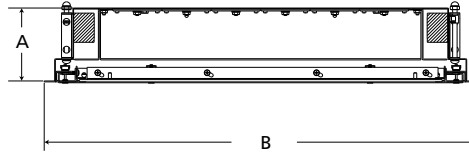
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)

DIMENSIONAL DATA

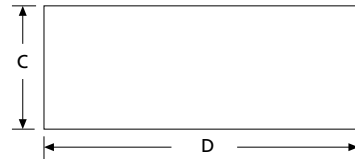
GASKET PROFILE



CROSS SECTION



CEILING CUTOUT



DIMENSIONAL DATA (IN INCHES)

| | A | B | C | D |
|-----|------|---------------|-------|-------|
| 1x4 | 4.20 | 11.75 x 47.75 | 10.85 | 46.85 |
| 2x2 | 4.20 | 23.75 x 23.75 | 22.85 | 22.85 |
| 2x4 | 4.20 | 23.75 x 47.75 | 22.85 | 46.85 |

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

** Height is 5.875" with 135L lamp option when ordered in conjunction with LEL option.



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