

SIMPLESEAL™

HSESO SERIES – HAZARDOUS LOCATION – SURFACE MOUNT

PRODUCT FEATURES:

- » Surface ceiling mount – 1'x4', 2'x2, 2'x4'
- » One-piece overlapping doorframe secured to housing with aircraft cables
- » 20-gauge, hole-free one-piece cold rolled steel housing
- » Closed cell extruded silicone gasket seals doorframe to housing
- » Class I, Division 2, Groups A, B, C, D Hazardous Location Listing



PROJECT INFORMATION

Job Name _____

Fixture Type _____

Catalog Number _____

Approved by _____

SPECIFICATIONS:

HOUSING: 20-gauge CRS. Hole-free one-piece seam welded construction. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

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

DOORFRAME: 20-gauge CRS. One-piece 60° beveled perimeter construction. Continuous angle lens retention system. Mechanical guide for doorframe fastener alignment. Doorframe secured to housing with stainless steel aircraft cables and (8) for 2x2 (60.96cmx60.96cm), (10) for 1x4 (30.48cmx121.92cm), or (12) for 2x4 (60.96cmx121.92cm) captive flush mounted Phillips head stainless steel fasteners. White TGIC polyester powder coat finish – 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Doorframe Gasket one-piece closed cell extruded silicone gasket seals doorframe to housing.

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 (<15% THD, >0.90 PF). Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities. 1.2mA maximum source current.

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

INSTALLATION: See page 2 for T Code rating and maximum ambient temperature. Four .312" (.79cm) holes for surface mounting. Hazardous location hub (1/2" trade size) provided for field installation.

WARRANTY: Limited five (5) year LED warranty.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location and Hazardous Locations Class I, Division 2 Groups A,B,C,D, and IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. FED-STD-209E/Class 100 (ISO 5) Cleanrooms.



ORDERING INFORMATION (Ex: HSESO24-120L40K-DCC-DV-2F-2H-SYM)

| Model | Lamp Type | Driver | Voltage | Doorframe Option | Housing | Lens Type | Options |
|------------------|-----------------------------|--------------------|---------------------------------|--------------------------|--------------------------------------|----------------|---|
| DCC | | | | | | | |
| Model | | 2x4 | | Doorframe Options | | Options | |
| HSESO14 | 1'x4' | 60L30K | 60 Watt 3000K LED (82 CRI) | 2F | 20-Ga CRS (STD) | HEL* | Integral 10W Emergency Battery Pack for Haz Locations (0°C - 40°C ambient temperatures) |
| HSESO22 | 2'x2' | 60L35K | 60 Watt 3500K LED (82 CRI) | 5F | 20-Ga Type 304 SS | FS | Fuse & Holder |
| HSESO24 | 2'x4' | 60L40K | 60 Watt 4000K LED (82 CRI) | XF | 20-Ga Type 316 SS | RF | Radio Frequency Filter |
| | | 60L50K | 60 Watt 5000K LED (82 CRI) | PAF | .063" Painted Fabricated Aluminum | SFC | Silicone Free Construction |
| Lamp Type | | 120L30K | 120 Watt 3000K LED (82 CRI) | Housing Options | | | |
| 1x4 | | 120L35K | 120 Watt 3500K LED (82 CRI) | 2H | 20-Ga CRS (STD) | | * n/a with 347 Volts |
| 50L30K | 50 Watt 3000K LED (82 CRI) | 120L40K | 120 Watt 4000K LED (82 CRI) | 5H | 20-Ga Type 304 SS | | ▼ n/a with HEL option |
| 50L35K | 50 Watt 3500K LED (82 CRI) | 120L50K | 120 Watt 5000K LED (82 CRI) | XH | 20-Ga Type 316 SS | | |
| 50L40K | 50 Watt 4000K LED (82 CRI) | 166L30K | 166 Watt 3000K LED (82 CRI) | PAH | .050" Painted Aluminum | | |
| 50L50K | 50 Watt 5000K LED (82 CRI) | 166L35K | 166 Watt 3500K LED (82 CRI) | Lens Type | | | |
| 70L30K | 70 Watt 3000K LED (82 CRI) | 166L40K | 166 Watt 4000K LED (82 CRI) | Acrylic | | | |
| 70L35K | 70 Watt 3500K LED (82 CRI) | 166L50K | 166 Watt 5000K LED (82 CRI) | SYM | Symmetric, Diffused DR Acrylic (STD) | | |
| 70L40K | 70 Watt 4000K LED (82 CRI) | | | Polycarbonate | | | |
| 70L50K | 70 Watt 5000K LED (82 CRI) | Driver Type | | 2 | .125" #12 Prismatic | | |
| 83L30K | 83 Watt 3000K LED (82 CRI) | DCC | Dimming Constant Current Driver | | | | |
| 83L35K | 83 Watt 3500K LED (82 CRI) | Voltage | | | | | |
| 83L40K | 83 Watt 4000K LED (82 CRI) | 120 | 120 Volts | | | | |
| 83L50K | 83 Watt 5000K LED (82 CRI) | 277 | 277 Volts | | | | |
| | | 347* | 347 Volts | | | | |
| | | DV | 120-277 Volts | | | | |
| 2x2 | | | | | | | |
| 50L30K | 50 Watt 3000K LED (82 CRI) | | | | | | |
| 50L35K | 50 Watt 3500K LED (82 CRI) | | | | | | |
| 50L40K | 50 Watt 4000K LED (82 CRI) | | | | | | |
| 50L50K | 50 Watt 5000K LED (82 CRI) | | | | | | |
| 100L30K | 100 Watt 3000K LED (82 CRI) | | | | | | |
| 100L35K | 100 Watt 3500K LED (82 CRI) | | | | | | |
| 100L40K | 100 Watt 4000K LED (82 CRI) | | | | | | |
| 100L50K | 100 Watt 5000K LED (82 CRI) | | | | | | |
| 120L30K | 120 Watt 3000K LED (82 CRI) | | | | | | |
| 120L35K | 120 Watt 3500K LED (82 CRI) | | | | | | |
| 120L40K | 120 Watt 4000K LED (82 CRI) | | | | | | |
| 120L50K | 120 Watt 5000K LED (82 CRI) | | | | | | |



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SIMPLESEAL™

HSESO SERIES – LF SURFACE MOUNT – OVERLAPPING DOOR

| PERFORMANCE | | Initial Delivered Lumens | | Input Power (W) | T Rating | Max Ambient Temperature | Drive Current (mA) | Estd L70 LED Life (Hrs) |
|-------------|-----------|--------------------------|-----------------|-----------------|----------|-------------------------|--------------------|-------------------------|
| Model | Lamp Type | @ 25°C | Efficacy (lm/W) | | | | | |
| HSESO14 | 50L30K | 5,424 | 92 | 59 | T6 | 40°C | 58 | 80,000 |
| | 50L35K | 5,609 | 95 | | | | | |
| | 50L40K | 5,782 | 98 | | | | | |
| | 50L50K | 6,013 | 102 | | | | | |
| | 70L30K | 7,295 | 89 | 82 | T5 | 40°C | 81 | 80,000 |
| | 70L35K | 7,544 | 92 | | | | | |
| | 70L40K | 7,777 | 95 | | | | | |
| | 70L50K | 8,088 | 99 | | | | | |
| | 83L30K | 8,447 | 92 | 92 | T6 | 25°C | 96 | 60,000 |
| | 83L35K | 8,735 | 95 | | | | | |
| | 83L40K | 9,005 | 98 | | | | | |
| 83L50K | 9,365 | 102 | | | | | | |
| HSESO22 | 50L30K | 6,014 | 102 | 59 | T6 | 40°C | 58 | 80,000 |
| | 50L35K | 6,220 | 105 | | | | | |
| | 50L40K | 6,412 | 109 | | | | | |
| | 50L50K | 6,668 | 113 | | | | | |
| | 100L30K | 11,121 | 99 | 112 | T5 | 40°C | 116 | 80,000 |
| | 100L35K | 11,500 | 103 | | | | | |
| | 100L40K | 11,856 | 106 | | | | | |
| | 100L50K | 12,330 | 110 | | | | | |
| | 120L30K | 13,510 | 100 | 135 | T6 | 25°C | 92 | 60,000 |
| | 120L35K | 13,971 | 103 | | | | | |
| | 120L40K | 14,403 | 107 | | | | | |
| 120L50K | 14,979 | 111 | | | | | | |
| HSESO24 | 60L30K | 7,406 | 109 | 68 | T6 | 40°C | 46 | 100,000 |
| | 60L35K | 7,658 | 113 | | | | | |
| | 60L40K | 7,895 | 116 | | | | | |
| | 60L50K | 8,211 | 121 | | | | | |
| | 120L30K | 14,346 | 106 | 135 | T5 | 40°C | 69 | 80,000 |
| | 120L35K | 14,835 | 110 | | | | | |
| | 120L40K | 15,294 | 113 | | | | | |
| | 120L50K | 15,906 | 118 | | | | | |
| | 166L30K | 19,153 | 104 | 184 | T6 | 25°C | 96 | 60,000 |
| | 166L35K | 19,806 | 107 | | | | | |
| | 166L40K | 20,419 | 111 | | | | | |
| 166L50K | 21,235 | 115 | | | | | | |

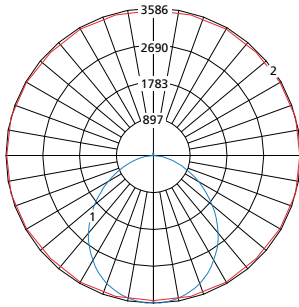
Provided information includes SYM Lens Type. Information subject to change without notice. Visit www.kenall.com for IES files and additional information.



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HSES0 SERIES – LF SURFACE MOUNT – OVERLAPPING DOOR

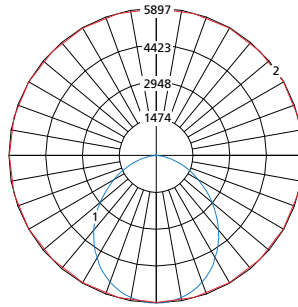
Model: HSES014-83L40K-DCC-DV



Maximum Candela = 3586 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.)

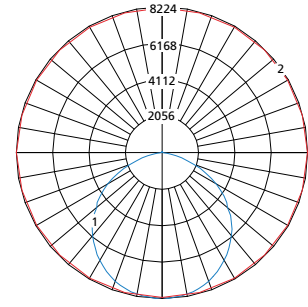
Model: HSES014-120L40K-DCC-DV



Maximum Candela = 5897 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.)

Model: HSES014-166L40K-DCC-DV

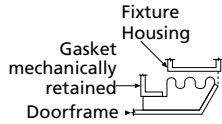


Max Candela = 8224 Located At Horizontal Angle = 0, Vertical Angle = 2.5

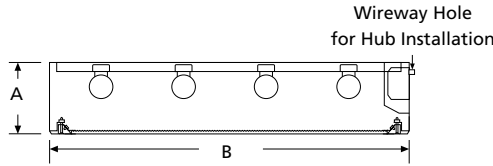
- 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
- 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

DIMENSIONAL DATA

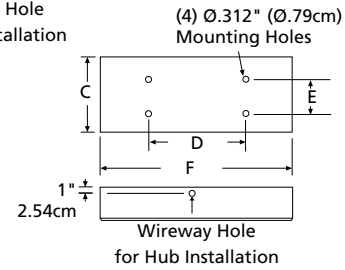
GASKET PROFILE



CROSS SECTION



MOUNTING HOLES



DIMENSIONAL DATA (IN INCHES & CENTIMETERS)

| | A | B | C | D | E | F |
|-------------------------|-------|--------------|-------|-------|-------|--------|
| 1x4 | 4.72 | 11.45x47.45 | 11.63 | 36 | 2 | 48.00 |
| 30.48cmx121.92cm | 11.99 | 29.08x120.52 | 29.54 | 91.44 | 5.08 | 121.92 |
| 2x2 | 4.72 | 23.45x23.45 | 23.63 | 12 | 12 | 24.00 |
| 60.96cmx60.96cm | 11.99 | 59.56x59.56 | 60.02 | 30.48 | 30.48 | 60.96 |
| 2x4 | 4.72 | 23.45x47.45 | 23.63 | 36 | 12 | 48.00 |
| 60.96cmx121.92cm | 11.99 | 59.56x120.52 | 60.02 | 91.44 | 30.48 | 121.92 |



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