PROJECT | FIXTURE TYPE

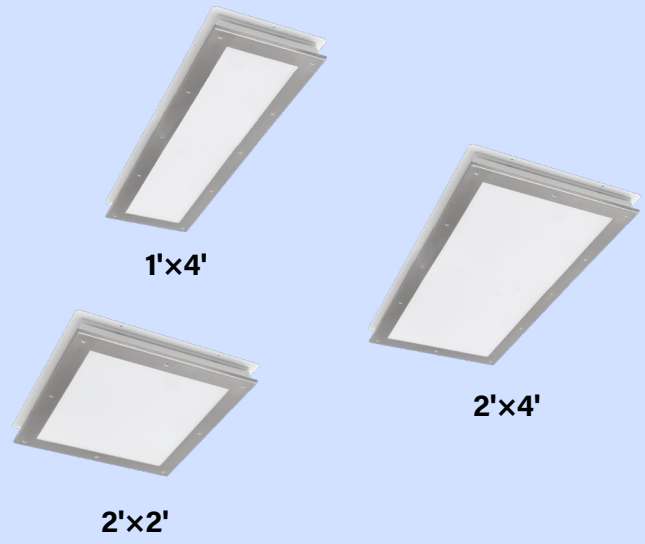
CATALOG #

# SIMPLESEAL® CSSETO

## RECESSED WALKABLE TROFFER

## Luminaires for Cleanroom Applications

IP66 NSF2 ISO3-9 BABA




## PRODUCT FEATURES

- Flush walkable top surface; 1'x4', 2'x2' and 2'x4' Sizes
- Side or top conduit entry available
- Designed for 2, 3 or 4" modular ceilings
- Enhanced lens luminance and 90CRI standard for better visual performance
- Serviceable from above or below

## SPECIFICATIONS

**HOUSING:** Internal housing and room-side ceiling flange constructed of seam-welded, die-formed 18-gauge CRS. Walkable side ceiling flange constructed of die-formed and seam-welded 16-gauge CRS, secured to housing during installation with provided hardware dependent on ceiling thickness. See Ordering Information for ceiling thickness selection - for use with 2"-4" ceiling systems.

**TOP ACCESS DOOR:** 16-gauge door with welded stiffening rails and die-formed perimeter. One-piece, closed cell extruded Nitrile gasketing seals doorframe to housing. Secured to housing with stainless steel counter-sunk flush-head screws. Single, hinged D-ring flush with walkable surface provides lifting point. Closed cell silicone gasket seals door to housing. Provides access to service all internal electrical components.

**ROOM-SIDE DOOR:** Standard one-piece, 18-gauge Type 304 stainless steel with 4B brushed finish. Other materials available. Die-formed with welded corners and a 60° progressive perimeter bend construction. Secured by countersunk flush-head stainless steel screws. Self-retracting safety cable supports doorframe during room-side servicing.

**LENS:** High impact diffuse acrylic lens, nominal .125" thick. Sealed to perimeter ledge of door aperture using RTV silicone and secured with continuous brackets.

**FINISH:** All painted metal surfaces finished after fabrication in gloss white TGIC polyester powder coat with 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%.

**LED MODULE:** Serviceable back-lit LED array. Standard 90CRI min. (R9>50). See Ordering Information for available color temperature options. Serviceable from above or below ceiling structure.

**DRIVER:** 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant-current drivers (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities. 0.4mA maximum driver source current. Serviceable from above or below ceiling structure.

**INSTALLATION:** Recessed installation into 2", 3" or 4" thick modular structural ceiling panels. One 7/8" KO on each side of housing for conduit runs internal to ceiling system. One 7/8" KO on top of luminaire for vertical conduit entry into luminaire, or horizontal surface run conduit entry via TCE option which provides a surface junction box and sealed feed into luminaire. Tested to 900lbs of uniform loading without damage or deflection of the luminaire structure. Suitable for -30°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.

**WARRANTY:** Limited five (5) year LED warranty.

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for recessed ceiling insulation contact (IC-rated) and Indoor Wet Location installations. IP66 rating per IEC60598. NSF2 Splash/Non-Food Zone rated. For use in spaces that are ISO 14644-1 rated ISO3-9. Build America, Buy America Act. Compliant.

## ORDERING INFORMATION (EX: CSSETO-24-162L-40K9-DIM1-DV-5F-2H-SYM-3IN-LEL)

| Model | Size | Lamp Power | Lamp Color | Driver | Voltage | Room-side Doorframe | Housing | Optics | Ceiling Options | Options |
|---|---|---|---|---|---|---|---|---|---|---|
| CSSETO | | | | DIM1 | | | 2H | SYM | | |

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

**Lamp Power**

1'×4'
- **44L** 44 Watt LED
- **63L** 63 Watt LED
- **80L** 80 Watt LED

2'×2'
- **44L** 44 Watt LED
- **63L** 63 Watt LED
- **80L** 80 Watt LED

2'×4'
- **44L** 44 Watt LED
- **63L** 63 Watt LED
- **80L** 80 Watt LED
- **120L** 120 Watt LED
- **162L** 162 Watt LED

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

**Driver Type**
- **DIM1** 0-10V Dimming to 1%

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

**Room-side Doorframe**
- **5F** 18-Ga Type 304 SS with 4B Brushed Finish (STD)
- **2F** 18-Ga CRS in Gloss White
- **XF** 18-Ga Type 316 SS with 4B Brushed Finish
- **PAF** .063" Fabricated Aluminum in Gloss White

**Housing Options**
- **2H** 18-Ga CRS in Gloss White

**Optics**
- **SYM** Diffuse DR Acrylic .125" thick

**Ceiling Options**
- **2IN** 2-2.5" thick (50-64mm)
- **3IN** 3-3.5" thick (75-89mm)
- **4IN** 4-4.5" thick (101-114mm)

**Options**
- **LEL**† Integral 10W Emergency Battery Pack
- **FS** Fuse & Holder
- **FN*** Food Zone/Non-Contact
- **TCE** Top Conduit Entry

† n/a 347V input; 0°C min. ambient

* Lensing consists of FDA approved Food Zone clear polycarbonate outer lens and diffused acrylic inner lens.

CSSETO-073125



This product is able to comply with the latest domestic preference legislation, such as the Buy America Act (BAA), Trade Agreement Act (TAA), Build America, Buy America Act (BABA), and others. It may be covered by patents found at www.kenall.com/patents. Content of specification sheets is subject to change; please consult www.kenall.com for current product details ©2025 Kenall Mfg. Co.

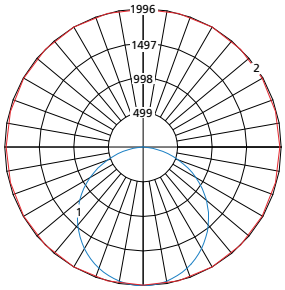
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## PERFORMANCE

| SIZE | LAMP CODE | Initial Delivered Lumens, By Lamp Color (lm) | | | | EFFICACY (LM/W) | INPUT POWER (W) | TM-21 REPORTED L70 (HRS) |
|---|---|---|---|---|---|---|---|---|
| | | 30K9 | 35K9 | 40K9 | 50K9 | | | |
| 1 x 4 | 44L | 5,405 | 5,606 | 5,738 | 6,046 | 114 - 128 | 47 | >102,000 |
| | 63L | 7,788 | 8,077 | 8,267 | 8,711 | 113 - 126 | 69 | |
| | 80L | 10,024 | 10,396 | 10,641 | 11,212 | 115 - 128 | 87 | |
| 2 x 2 | 44L | 5,877 | 6,096 | 6,239 | 6,574 | 118 - 132 | 50 | >102,000 |
| | 63L | 8,374 | 8,685 | 8,889 | 9,366 | 121 - 135 | 69 | |
| | 80L | 10,523 | 10,914 | 11,171 | 11,770 | 121 - 135 | 87 | |
| 2 x 4 | 44L | 6,307 | 6,542 | 6,696 | 7,055 | 130 - 146 | 48 | >102,000 |
| | 63L | 9,210 | 9,552 | 9,777 | 10,301 | 134 - 150 | 69 | |
| | 80L | 11,080 | 11,492 | 11,763 | 12,394 | 127 - 142 | 87 | |
| | 120L | 16,146 | 16,746 | 17,140 | 18,059 | 124 - 138 | 131 | |
| | 162L | 21,451 | 22,248 | 22,772 | 23,993 | 122 - 136 | 176 | |

NOTE: Lumen scaling factor for FN lens option is 0.93. 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.

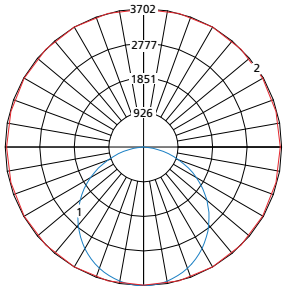
Model: CSSETO-14-44L-40K9-tt-uu-vv-ww-SYM-2IN-zz




Max Candela = 1996 Located At Horizontal Angle = 60, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

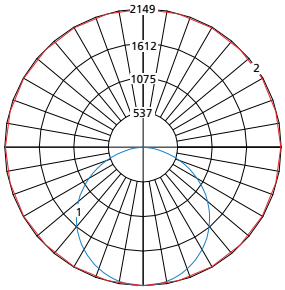
Model: CSSETO-14-82L-40K9-tt-uu-vv-ww-SYM-2IN-zz




Max Candela = 3702 Located At Horizontal Angle = 60, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (60 - 240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

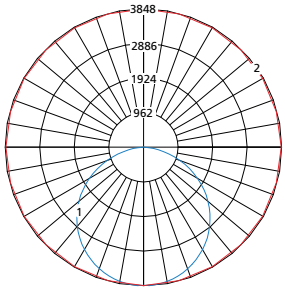
Model: CSSETO-22-44L-40K9-tt-uu-vv-ww-SYM-2IN-zz




Max Candela = 2149 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.)

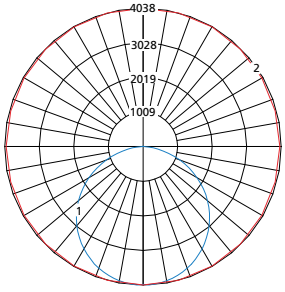
Model: CSSETO-22-82L-40K9-tt-uu-vv-ww-SYM-2IN-zz




Max Candela = 3848 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.)

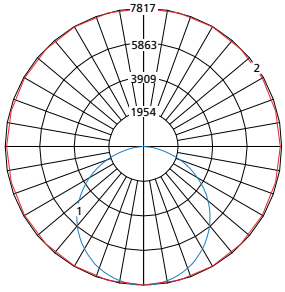
Model: CSSETO-24-80L-40K9-tt-uu-vv-ww-SYM-2IN-zz




Max Candela = 4038 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.)

Model: CSSETO-24-162L-40K9-tt-uu-vv-ww-SYM-2IN-zz




Max Candela = 7817 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.)

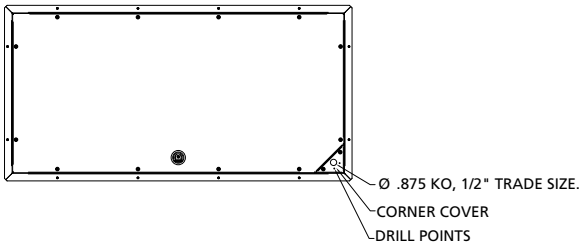


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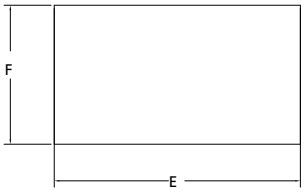
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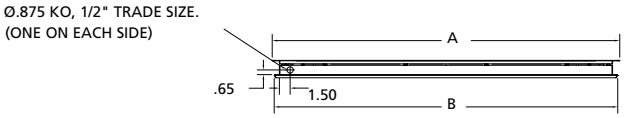
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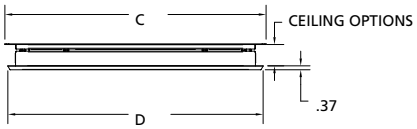
## DIMENSIONAL DATA



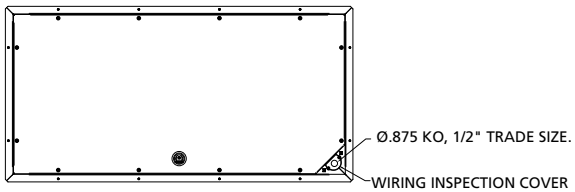

### RECOMMENDED CEILING CUTOUT

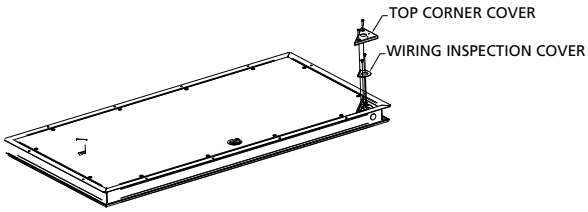


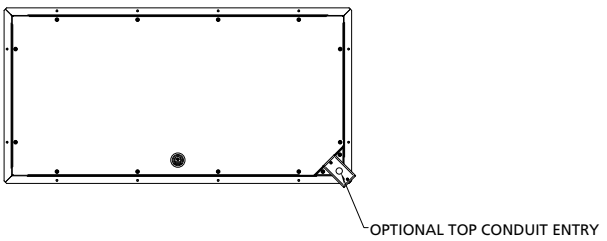



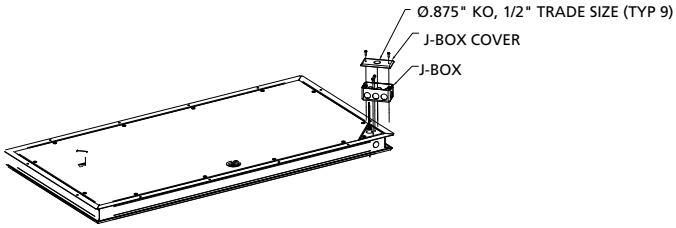

### TOP WIRING INSPECTION ACCESS




### TOP CONDUIT ENTRY OPTION




**DIMENSIONAL DATA (IN INCHES)**

| | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| 1×4 | 48.50 | 47.94 | 12.50 | 11.94 | 46.70 | 10.70 |
| 2×2 | 26.10 | 25.54 | 24.50 | 23.94 | 24.30 | 22.70 |
| 2×4 | 48.50 | 47.94 | 24.50 | 23.94 | 46.70 | 22.70 |



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