

# SIMPLESEAL™

## CSEFL SERIES – EXTENDED FLANGE

### PRODUCT FEATURES:

- » Recessed ceiling mount – flange; 1'x4', 2'x2', 2'x4'
- » One-piece seam welded housing with extended flange assures seal against rough ceilings
- » One-piece doorframe provides air-tight integrity of luminaire
- » Suitable for Class 100 (ISO 5) environments
- » Flanged for drywall or plaster ceilings— not suitable for grid ceilings



### PROJECT INFORMATION

Job Name \_\_\_\_\_

Fixture Type \_\_\_\_\_

Catalog Number \_\_\_\_\_

Approved by \_\_\_\_\_

### SPECIFICATIONS:

**HOUSING:** Standard 20-gauge cold rolled steel, hole-free, one-piece, seam-welded construction. White TGIC polyester powder coat finish with 5-step pre-treatment. Salt spray test: 1,000 hours; Reflectance: 92%. Housing flange is 18-gauge stainless steel or aluminum with mitered and welded corners. Flange finish matches doorframe except when PAH Housing Option (flange is painted white aluminum).

**DOORFRAME:** 20-gauge type 304 stainless steel (#4 finish-post fabrication) or .063 fabricated aluminum painted. 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 captive flush mounted phillips head stainless steel fasteners (8) for 2x2, (12) for 2x4; thumb screws optional.

**LENS:** Impact-resistant diffused acrylic lens sealed to perimeter ledge of lens aperture with silicone sealant and secured with continuous lens retention system. See Options for alternate lens selections. Lens orientation – smooth side out. Can be combined with prismatic inner lens; specify type in Lens Type field - overlay combination inner/outer (example: 2/SYM).

**ELECTRICAL:** Available 3000K, 3500K, 4000K and 5000K color temperatures, 82 CRI; maximum 3-step MacAdam variation allowance. 120-277VAC, 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); 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:** Adjustable swing-out mounting brackets standard. See Options for continuous row mounting and plaster frames. Fixture designed for hard ceilings only.  
**Not suitable for grid ceilings.**

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

**LISTINGS:** Luminaire is certified to UL standards by Intertek Testing Laboratories for Wet Location. Certified IP65 per IEC 60598. NSF2 Splash/Non-Food Zone. CCEA Approved. Suitable for BSL 1-4 laboratories. Build America, Buy America Act compliant.



**NOT FOR GRID CEILING INSTALLATIONS**

### ORDERING INFORMATION (Ex: CSEFL24-45LD-35K8-DIM1-277-5F-2H-SYM-LEL)

| Model                     | Lamp Power | Lamp Color               | Driver Type | Voltage                                      | Doorframe Option | Housing | Lens Type  | Options |
|---------------------------|------------|--------------------------|-------------|--|------------------|---------|--|---------|
| <b>DIM1</b>               |            |                          |             |  |                  |         |  |         |
| <b>Model</b>              |            | <b>Lamp Color</b>        |             | <b>Voltage</b>                               |                  |         | <b>Lens Type</b>   |         |
| CSEFL14 1'x4'             |            | 30K8 3000K / 82 CRI min. |             | 120 120 Volts                                |                  |         | <b>Acrylic</b>   |         |
| CSEFL22 2'x2'             |            | 35K8 3500K / 82 CRI min. |             | 277 277 Volts                                |                  |         | <b>SYM</b> Symmetric, Diffused DR Acrylic (STD)                                  |         |
| CSEFL24 2'x4'             |            | 40K8 4000K / 82 CRI min. |             | 347 347 Volts                                |                  |         | <b>U</b> .125" #12 Prismatic High Impact Acrylic                                 |         |
|                           |            | 50K8 5000K / 82 CRI min. |             | DV 120-277 Volts                             |                  |         | <b>Polycarbonate</b>   |         |
| <b>Lamp Power</b>         |            | <b>Driver Type</b>       |             | <b>Doorframe Options</b>                     |                  |         | <b>2</b> .125" #12 Prismatic   |         |
| 1x4                       |            | DIM1 0-10V Dimming to 1% |             | <b>PAF</b> .063" Painted Fabricated Aluminum |                  |         | <b>Tempered Glass</b>  |         |
| 45L 45 Watt LED           |            |                          |             | <b>5F</b> 20-Ga Type 304 SS                  |                  |         | <b>TG</b> .250" Textured Tempered Glass  |         |
| 67L 67 Watt LED           |            |                          |             | <b>XF</b> 20-Ga Type 316 SS                  |                  |         | <b>Specified Lens</b>  |         |
| <b>2x2</b>                |            |                          |             | <b>Housing Options</b>                       |                  |         | <b>SL</b> Specified Lens   |         |
| 45LD 45 Watt Dual-Row LED |            |                          |             | <b>2H</b> 20-Ga CRS (STD)                    |                  |         | <b>Options</b>   |         |
| 67L 67 Watt LED           |            |                          |             | <b>5H</b> 20-Ga Type 304 SS                  |                  |         | <b>LEL▲</b> 10W LED Emergency Battery Backup                                     |         |
| <b>2x4</b>                |            |                          |             | <b>XH</b> 20-Ga Type 316 SS                  |                  |         | <b>NLW▼</b> 2700K White LED Night Light  |         |
| 45LD 45 Watt Dual-Row LED |            |                          |             | <b>PAH</b> .050" Painted Aluminum            |                  |         | <b>NLA▼</b> Amber LED Night Light  |         |
| 67L 67 Watt LED           |            |                          |             |  |                  |         | <b>FS</b> Fuse & Holder  |         |
| 90L 90 Watt LED           |            |                          |             |  |                  |         | <b>FN*</b> Food Zone/Non-Contact   |         |
|                           |            |                          |             |  |                  |         | <b>TS</b> Stainless Steel Doorframe Thumb Screws                                 |         |
|                           |            |                          |             |  |                  |         | <b>HJ</b> Sealed Wireway   |         |
|                           |            |                          |             |  |                  |         | <b>PF</b> Plaster Frame  |         |
|                           |            |                          |             |  |                  |         | <b>RF</b> Radio Frequency Filter (voltage-specific selection required; n/a 347V) |         |
|                           |            |                          |             |  |                  |         | <b>RM</b> Continuous Row Mounting (consult factory for ceiling cut-out)          |         |
|                           |            |                          |             |  |                  |         | <b>TH</b> 1/2" Trade Size Threaded Hub   |         |

- ▲ n/a with 347V; 0°C/32°F min. operating environment
- \* n/a with TG Option
- ▼ n/a with 347 input



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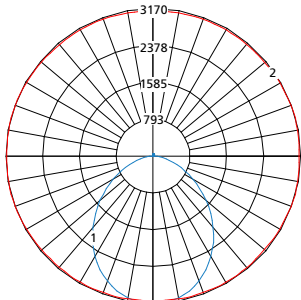
## CSEFL SERIES – Technical Data

### PERFORMANCE

| Model    | Lamp Type | Initial Delivered Lumens |                 | Input Power (W) | Drive Current (mA) | Estd. L70 LED Life (Hrs) |
|----------|-----------|--------------------------|-----------------|-----------------|--------------------|--------------------------|
|          |           | @ 25°C                   | Efficacy (lm/W) |                 |                    |                          |
| CSEFL14  | 45L-30K8  | 4,906                    | 100             | 49              | 100                | >72,000                  |
|          | 45L-35K8  | 5,140                    | 105             |                 |                    |                          |
|          | 45L-40K8  | 5,230                    | 107             |                 |                    |                          |
|          | 45L-50K8  | 5,439                    | 111             |                 |                    |                          |
|          | 67L-30K8  | 7,514                    | 104             | 72              | 75                 |                          |
|          | 67L-35K8  | 7,874                    | 109             |                 |                    |                          |
|          | 67L-40K8  | 8,011                    | 111             |                 |                    |                          |
|          | 67L-50K8  | 8,332                    | 116             |                 |                    |                          |
| CSEFL22  | 45LD-30K8 | 5,212                    | 106             | 46              | 50                 | >72,000                  |
|          | 45LD-35K8 | 5,461                    | 111             |                 |                    |                          |
|          | 45LD-40K8 | 5,556                    | 113             |                 |                    |                          |
|          | 45LD-50K8 | 5,779                    | 118             |                 |                    |                          |
|          | 67L-30K8  | 7,983                    | 111             | 72              | 75                 |                          |
|          | 67L-35K8  | 8,365                    | 116             |                 |                    |                          |
|          | 67L-40K8  | 8,511                    | 118             |                 |                    |                          |
|          | 67L-50K8  | 8,852                    | 123             |                 |                    |                          |
| CSEFL24  | 45LD-30K8 | 6,293                    | 137             | 46              | 50                 | >72,000                  |
|          | 45LD-35K8 | 6,593                    | 143             |                 |                    |                          |
|          | 45LD-40K8 | 6,709                    | 146             |                 |                    |                          |
|          | 45LD-50K8 | 6,977                    | 152             |                 |                    |                          |
|          | 67L-30K8  | 8,752                    | 122             | 72              | 75                 | >72,000                  |
|          | 67L-35K8  | 9,171                    | 127             |                 |                    |                          |
|          | 67L-40K8  | 9,331                    | 130             |                 |                    |                          |
|          | 67L-50K8  | 9,704                    | 135             |                 |                    |                          |
|          | 90L-30K8  | 11,247                   | 116             | 97              | 100                | >72,000                  |
|          | 90L-35K8  | 11,784                   | 121             |                 |                    |                          |
|          | 90L-40K8  | 11,990                   | 124             |                 |                    |                          |
| 90L-50K8 | 12,470    | 129                      |                 |                 |                    |                          |

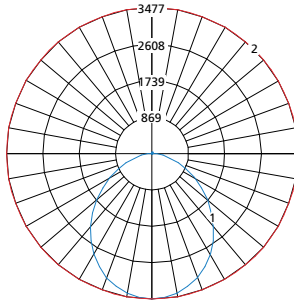
Displayed information is for selected luminaires only. Additional wattages and color temperatures are also available. Visit [www.kenall.com](http://www.kenall.com) for additional information.

Model: CSEFL14-67L-40K8-DIM1-DV-5F-2H-SYM



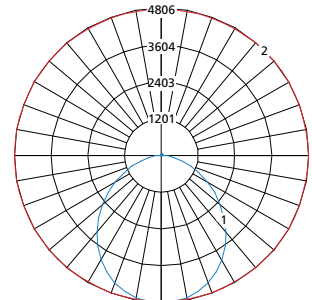
Maximum Candela = 3170 Located At Horizontal Angle = 15, Vertical Angle = 2.5  
 1 - Vertical Plane Through Horizontal Angles (15-195) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: CSEFL22-67L-40K8-DIM1-DV-5F-2H-SYM



Max Candela = 3477 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: CSEFL24-90L-40K8-DIM1-DV-5F-2H-SYM



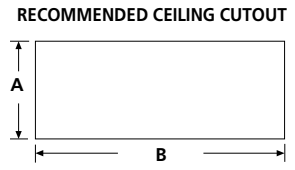
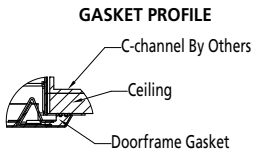
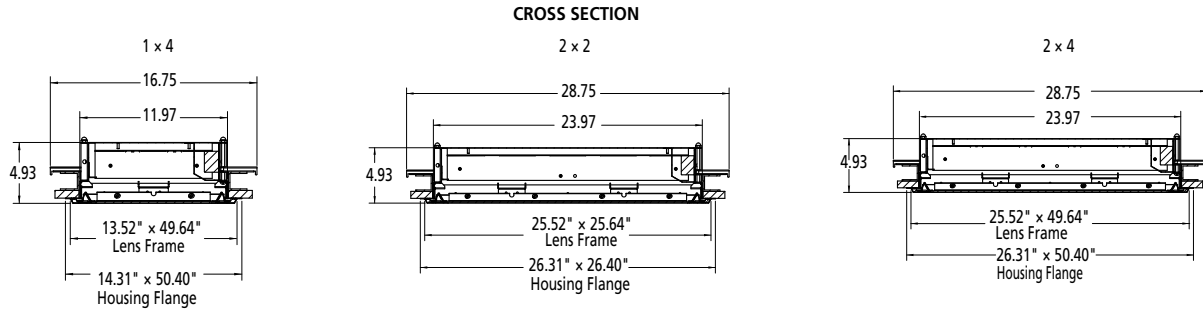
Max Candela = 4806 Located At Horizontal Angle = 0, Vertical Angle = 5  
 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
 2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)



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## CSEFL SERIES – Technical Data

### DIMENSIONAL DATA



**CEILING CUT-OUT DIMENSIONS**

|     | A     | B     |
|-----|-------|-------|
| 1x4 | 12.13 | 48.25 |
| 2x2 | 24.13 | 24.25 |
| 2x4 | 24.13 | 48.25 |



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