

## DESCRIPTION

The CFS is designed for use in non-laminar air flow clean rooms. This surface mounted clean room luminaire has a hole-free design and is enclosed and gasketed to protect against infiltration of particles and airborne bacteria. The sealed housing and door frame allow relamping without contamination of the clean areas. An emergency battery pack is available as an option. UL/cUL listed for wet locations, and manufactured in accordance with U.S.D.A., F.D.A. and N.S.F. All fixtures have been tested and reported in compliance with Federal Standard 209E, Class 100 (M3.5).

<b>Catalog #</b>		<b>Type</b>
<b>Project</b>		
<b>Comments</b>		<b>Date</b>
<b>Prepared by</b>		

## SPECIFICATION FEATURES

### Application

The CFS is suitable for use in I.E.S. Class 100, 1,000, 10,000 and 100,000 clean room environments. Applications include clean rooms, technical and biomedical labs, food processing/testing centers and pharmaceutical labs.

### Fasteners

Flush mounted, stainless steel machine screws secure through captive cage nuts in housing and are evenly spaced to compress gasketing on all sides.

### Housing

Die-formed, 20 ga. CRS with tightly butted and seam welded, sealed end caps. Contains no holes that would allow air passage.

### Finish

High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%. 1000 hour salt spray test.

### Hinge

Two braided, stainless steel cables on one side of door provide hinging.

### Door

One-piece, 18 ga., fully gasketed, outside door with die-formed and beveled edges eliminates seams that could entrap microscopic contaminants.

### Gasket

White, closed cell, Flexiseal(TM) triple gasketing system surrounds perimeter of lens to seal lens to door frame and around perimeter of door to seal door to housing. Sealing from fixture to ceiling by others.

### Access

A gasketed access plate on top of the housing with two flattened, 7/8" diameter knockouts allows connection of vapor tight conduit fitting.

### Lens

One-piece, clear Pattern 12 acrylic lens with internal prism pattern. Choice of prismatic acrylic, prismatic polycarbonate, Radialens or prismatic tempered glass on environmental side. See Lens Options.

### Lamps

By others.

### Lens Retention

Unique, Particulock(TM) lens retention system utilizes continuous, 18 ga. media clampdowns to sandwich gasketing and integrate lens and door frame for even environmental seal.

### Ballast

Electronic Class P, CBM/ETL ballast.

### Labels

UL/cUL listed for wet location under covered ceiling.



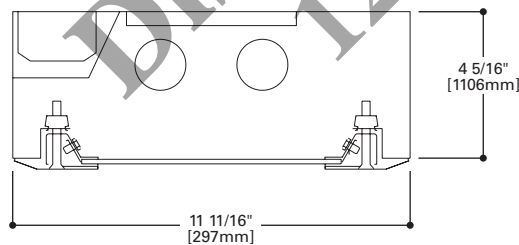
## CFS12

1x2

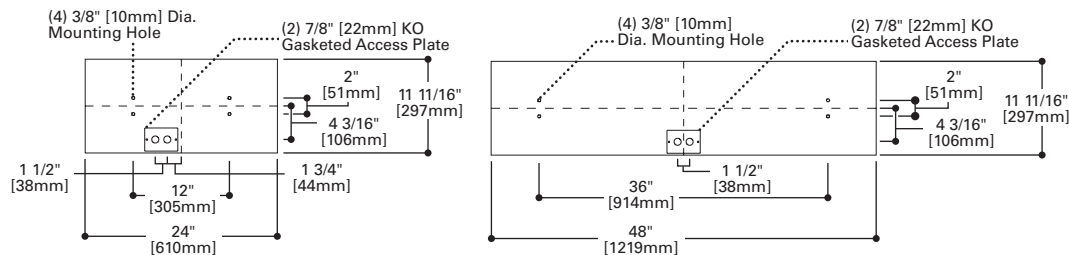
1x4

Cleanroom

**SURFACE**  
Overlapping Door



## MOUNTING DIMENSIONS



## DOOR FRAME

Surface Type One-piece Door



## ORDERING INFORMATION

Product Family	Width	No of Lamps	Lamp Type	Voltage 1	Lens Type 4	Ballast	Overlapping Door/Finish Options	Options
<b>CFS</b>	<b>12</b>							
CFS=Fluorescent Surface Type				120= 120V 277=277V 347=347V UNV=120V-277V		Electronic Ballast 3 EB51=(1) Ballast for use with T5 Lamp EB52=(2) Ballasts for use with T5 Lamp EB81=(1) Ballast for use with T8 Lamp EB82=(2) Ballasts for use with T8 Lamp EBX1=EB1 Ballast for use with Biaxial Lamp EBX2=(2) Ballast for use with Biaxial Lamp		BLANK=Steel, overlapping, powder coat painted white ALP=Aluminum, powder coat painted white SSN=Stainless Steel, Brushed finish SSP=Stainless Steel, Powder coat painted white
12=12" (3 Lamps Max.)				IK12=Pattern 12 Prismatic Acrylic, 0.110" thick IP12=Pattern 12 Prismatic Polycarbonate, 0.110" thick KSH25=Linear Ribbed Acrylic, 0.115" thick 2 93=Prismatic Tempered Glass, 0.156" thick				EL4=EM Pack, T8, BX EL5=EM Pack, T5, T5HO GLR=Fuse and Holder RIF=Radio Frequency Interference Filter AM=Anti-microbial, matte white finish 5
1, 2 or 3								
<b>2' Fixture Length</b>		<b>4' Fixture Length</b>						
<b>T5 Fluorescent</b>		<b>T5 Fluorescent</b>						
114=(1) 14W Lamps		128=(1) 28W Lamps						
214=(2) 14W Lamps		228=(2) 28W Lamps						
314=(3) 14W Lamps		328=(3) 28W Lamps						
124=(1) 24W Lamps		154=(1) 54W Lamps						
224=(2) 24W Lamps		254=(2) 54W Lamps						
<b>T8 Fluorescent</b>		<b>T8 Fluorescent</b>						
117=(1) 17W Lamps		132=(1) 32W Lamps						
217=(2) 17W Lamps		232=(2) 32W Lamps						
317=(3) 17W Lamps		332=(3) 32W Lamps						
<b>Biaxial Fluorescent</b>								
140BX=(1) 40W Lamps								
240BX=(2) 40W Lamps								

## NOTES:

- 1 Products also available in non-US voltages and 50Hz for international markets. Consult your Cooper Lighting Solutions Representative for availability and ordering information.
- 2 The KSH25 provides improved visual performance and wide angle distribution. This lens has an integral prism pattern designed so that prisms face the lamp cavity and still supply superior photometrics. Highly recommended for all high-tech manufacturing environments.
- 3 For specific electronic ballast, specify brand and catalog number.
- 4 Refer to Lens Ordering Guide for additional lens choices.
- 5 AM not available with brushed finish stainless steel.

Discontinued  
12-21-2022