Fail-Safe

DESCRIPTION

The Fail-Safe CFF is designed for use in horizontal or non-laminar air flow clean rooms. The enclosed and gasketed housing and one-piece, outside flanged door protect against infiltration of airborne bacteria. The die formed edges on the door frame and the hole-free design of the housing prevent air exchange between the fixture and plenum, allowing relamping without contamination of the clean areas. UL/cUL listed for wet locations under covered ceilings.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Application
The CFF 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. Standard white high reflectance polyester powder coat finish. Stainless steel and aluminum available.

Finish
High gloss, electrostatically applied, white powder coat finish, average minimum reflectance 92%.

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

Door
One piece, 18 ga. steel door with baked white polyester powder coat, fully gasketed, outside door with dieformed edges eliminates seams which could entrap microscopic contaminants. Stainless steel and aluminum available.

Gasket
White, closed cell, Flexiseal™ gasketing surrounds perimeter of lens to seal lens to door frame and around perimeter of door to seal door to housing. Another layer seals fixture to ceiling system after installation.

Access
A gasketed access plate on top of the housing with two flattened, 7/8" diameter knockouts allows connection of vapor tight conduit fitting. Optional, above ceiling, top access door for luminaire maintenance is available and ideal for food processing and cleanroom applications.

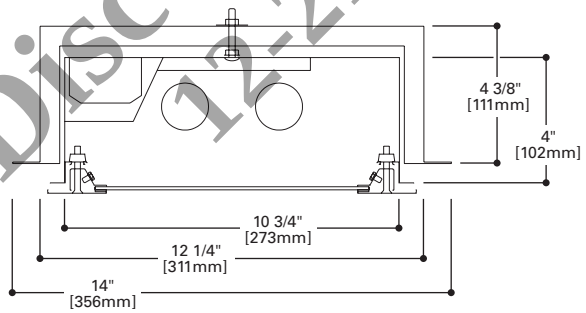
Lens
Lens is clear Pattern 12 acrylic with prisms positioned inside fixture and smooth surface on the outside for easy cleaning.

Lamps
(By others.)

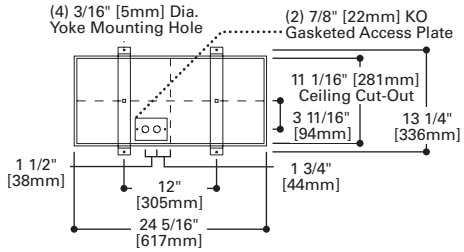
Lens Retention
Unique, Particulock™ lens retention system utilizes continuous, 18 ga. media clampdowns to sandwich gasketing and integrate lens and door frame for even environmental seal.

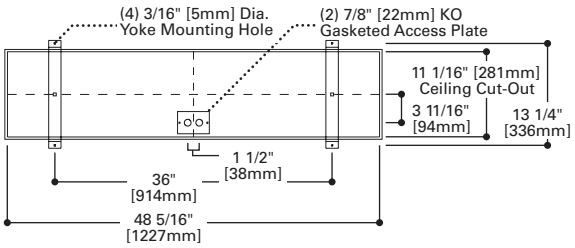
Ballast
Electronic Class P, CBM/ETL ballast.

Listings
UL/cUL listed for wet location under covered ceiling. IP66 rated for standard die-formed steel, stainless steel and aluminum doors.



MOUNTING DATA

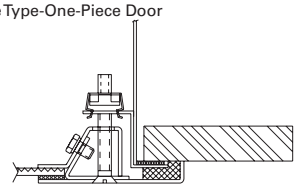




Cut out Dimensions
1x2 = 11 1/16" x 24 5/16"
1x4 = 11 1/16" x 48 5/16"

DOOR FRAME

Flange Type-One-Piece Door



CFF12

1x2
1x4
Cleanroom

RECESSED FLANGE
Overlapping Door

COOPER Lighting Solutions

ORDERING INFORMATION

SAMPLE NUMBER: CFF-12-332-277-IK12-EB81-GLR

Product Family	Width	Lamp Type	Voltage	Lens Type [1]	Ballast	Overlapping Door/Finish Options	Options
CFF	12						

CFF=Fluorescent Flange Type

12=12" (3 lamp max.)

2' Fixture Length

T5 Fluorescent
114=(1) 14W Lamp
214=(2) 14W Lamps
314=(3) 14W Lamps
124=(1) 24W Lamp
224=(2) 24W Lamps

2' Fixture Length

T8 Fluorescent
117=(1) 17W Lamp
217=(2) 17W Lamps
317=(3) 17W Lamps

Biaxial Fluorescent
140BX=(1) 40W Lamp
240BX=(2) 40W Lamps

4' Fixture Length

T5 Fluorescent
128=(1) 28W Lamp
228=(2) 28W Lamps
328=(3) 28W Lamps
154=(1) 54W Lamp
254=(2) 54W Lamps

T8 Fluorescent
132=(1) 32W Lamp
232=(2) 32W Lamps
332=(3) 32W Lamps

120= 120V
277=277V
UNV=120V-277V

IK12=Pattern 12 Prismatic Acrylic, 0.110" thick
IP12=Pattern 12 Prismatic Polycarbonate, 0.110" thick
KSH25= Linear Ribbed Acrylic, 0.115" thick
93=Prismatic Tempered Glass, 0.156" thick

Electronic Ballast [2]
EB51= (1) Ballast for use with T5 Lamp
EB52=(2) Ballasts for use with T5Lamp
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 Lamps

Blank=Steel, powder coat painted white
ALP=Aluminum die-formed, powder coat painted white
SSN=Stainless Steel brushed finish
SSP=Stainless Steel, powder coat painted white

EL4=EM Pack, T8, BX
EL5=EM Pack, T5, T5HO
GLR=Fuse and Holder
RIF=Radio Frequency Interference Filter
TAD=Top Access Door [3]
AM=Anti-microbial, matte white finish [4]

Housing Options
ALH=Die formed Aluminum, powder coat painted white
SHN=Stainless Steel, Brushed finish
SHP=Stainless Steel, powder coat painted white

Accessories (Order Separately)

MCF12-2FT=2FT Mounting Frame, not required for installation
MCF12-4FT=4FT Mounting Frame, not required for installation

Notes:
1 Refer to Lens Ordering Guide for additional lens choices.
2 For specific electronic ballast, specify brand and catalog number.
3 Consult your Cooper Lighting Solutions Representative for dimensional details.
4 AM finish not available with brushed finish stainless steel.