# 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. and F.D.A. All fixtures have been tested and reported in compliance with Federal Standard 209E, Class 100 (M3.5).

# Fail-Safe

Catalog #	Туре
Project	
Comments	Date
Prepared by	

## 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



Labels UL/cUL listed for wet locations under covered ceiling.



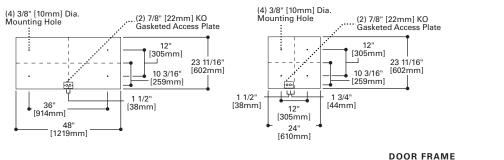
# CFS24

2x2 2x4 Cleanroom

SURFACE Overlapping Door



# MOUNTING DIMENSIONS





Surface Type-One-piece Door





#### SAMPLE NUMBER: CFS-24-432-120-IP12-EB82-SSP-EL4

Product Family	Width	Lamp Type	Voltage 1	Lens Type 4	Ballast	Overlapping Door/Finish Options	Options	
CFS	24							
CFS=Fluorescen Surface Ty			<b>120=</b> 120V <b>277</b> =277V <b>347</b> =347V <b>UNV</b> =120V	<i>I-</i> 277V	Electronic Ballast <sup>3</sup> EB51= (1) Ballast for use with T5 Lamp EB52=(2) Ballasts for use with	BLANK=Steel, overlapping, powde ALP=Aluminum, powder coat pain SSN=Stainless Steel Brushed finist SSP=Stainless Steel, Polyester pow	ed finish	
<b>l</b> =24″			IK12=Patte	rn 12 Prismatic	T5 Lamp EB81= (1) Ballast for use with	<b>337</b> =Stamless Steel, Polyester pow	der coat misn	
2' Fixture Leng	th <sup>5</sup>	4' Fixture Length	Acrylic, 0.1	10" thick rn 12 Prismatic	T8 Lamp EB82=(2) Ballasts for use with	EL4=EM Pack, T8, BX		
T5 Fluorescent 214=(2) 14W La 314=(3) 14W La 414=(4) 14W La 224=(2) 24W La 324=(3) 24W La 424=(4) 24W La	imps imps imps imps imps	T5 Fluorescent 228=(2) 28W Lamps 328=(3) 28W Lamps 428=(4) 28W Lamps 254=(2) 54W Lamps 354=(3) 54W Lamps 454=(4) 54W Lamps	Polycarbor <b>KSH25</b> = Li Acrylic, 0.1	nate, 0.110" thick near Ribbed 15" thick <sup>2</sup> tic Tempered		EL5-EM Pack, 75, T5HO GLR=Fuse and Holder RIF=Radio Frequency Interference AM=Anti-microbial matte white fin Housing Options SHN=Stainless Steel, Brushed finit	ish <sup>6</sup> sh	
T8 Fluorescent		654=(4) 54W Lamps				SHP=Stainless Steel, powder coat ALH=Aluminum, powder coat pair		
217=(2) 17W La 317=(3) 17W La 417=(4) 17W La 617=(6) 17W La Biaxial Fluores 240BX=(2) 40W 340BX=(3) 40W 440BX=(4) 40W	imps imps imps cent / Lamps / Lamps	T8 Fluorescent 232=(2) 32W Lamps 332=(3) 32W Lamps 432=(4) 32W Lamps 632=(6) 32W Lamps	<ul> <li>NOTES:</li> <li>1 Products also available in non-US voltages and 50Hz for international markets. Consult your Cooper Lighting Solutions Representative for availability and ordering information.</li> <li>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 environment.</li> <li>3 For specific electronic ballast, specify brand and catalog number.</li> <li>4 Refer to Lens Ordering Guide for additional lens choices.</li> <li>5 Em Pack not available with brushed finish stainless steel.</li> </ul>					
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