DESCRIPTION

The CFS Series 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. These luminaires are U.L. listed and C.S.A. certified for wet locations and are 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). 200 PSI Rating is standard.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Application

The CFS Series 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. Manufactured to IP65 Rating.

A ... Lens

(To be specified.) One-piece, clear extruded lens with internal prism pattern. Choice of prismatic acrylic, prismatic polycarbonate, Radialens or prismatic tempered glass on environmental side. See Lens Options.

B ... Fasteners

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

C ... Housing

Die-formed, 20 ga. CRS with tightly butted and seam welded, sealed

Housing Cont.

end caps. Contains no holes that would allow air passage. Standard white high reflectance polyester powder coat finish. Gloss: 85%; Reflectance: 93%; Hardness: 2H; Salt Spray: 500 Hours.

D ... Lamps

(By Others)

E ... 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.

F ... Hinge

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

G ... Door

(To be specified.) One-piece, 18 ga., fully gasketed, outside door

Door Cont.

with die-formed and beveled edges eliminates seams which could entrap microscopic contaminants.

H ... Ballast

Standard Class P, CBM/ETL ballast.

I ... 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.

J ... Access

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

Labels

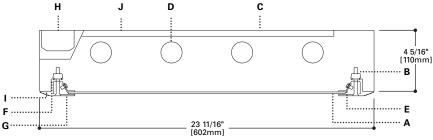
U.L. listed, C.S.A. certified, standard wet label.



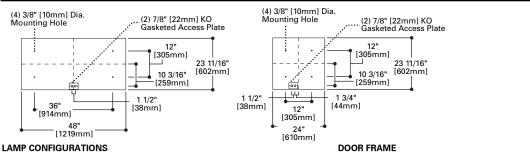
CFS

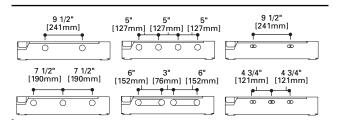
34W - 160W **Fluorescent**

2' X 2' **FLUORESCENT SURFACE One-Piece Door**



MOUNTING DIMENSIONS





Surface Type-One-piece Door TORX® is a registered trademark

of Camcar Division of Textron Inc.

ENERGY DATA

Input Watts:

STD Ballasts & STD Lamps

(2) 20W T12 Fluorescents: 53W (3) 20W T12 Fluorescents: 85W

(4) 20W T12 Fluorescents: 106W (2) 40W Biaxial Fluorescents: 82W

(3) 40W Biaxial Fluorescents: 127W

ES Ballasts & STD Lamps

(2) 17W T8 Fluorescents: 45W (3) 17W T8 Fluorescents: 68W

(4) 17W T8 Fluorescents: 90W (2) 32W T8 Fluorescents: 71W

(3) 32W T8 Fluorescents: 108W

(4) 32W T8 Fluorescents: 142W

(2) 40W T12 Fluorescents: 86W

(3) 40W T12 Fluorescents: 136W

(4) 40W T12 Fluorescents: 172W

(2) 40W U-Lamps: 86W

ES Ballasts & ES Lamps

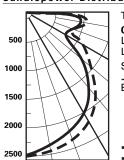
(2) 40W T12 Fluorescents: 76W (3) 40W T12 Fluorescents: 120W

(4) 40W T12 Fluorescents: 152W

(2) 40W U-Lamps: 76W

Electronic Ballast Data Consult Factory

Candlepower Distribution



Test No. ITL36036 CFS-24-440-IK12 Lamp=(4) 40WT12 Lumens=8526 Spacing Criteria ⊥=1.4 II=1.2 Efficiency=67.7%

Average Luminance De _5

g. <u>I</u> II							
g.	Т	II					
1 5	1595	1323					
55	1154	980					
35	822	779					
75	871	857					
35	1018	933					

Zonal Lumen Summary

Zone	Lumens	%Lamp	%Luminaire		
0-30	2728	21.7	32.0		
0-40	4499	35.7	52.8		
0-60	7316	58.1	85.8		
0-90	8526	67.7	100.0		
90-180	0	0.0	0.0		
0-180	8526	67.7	100.0		

Coefficient of Utilization

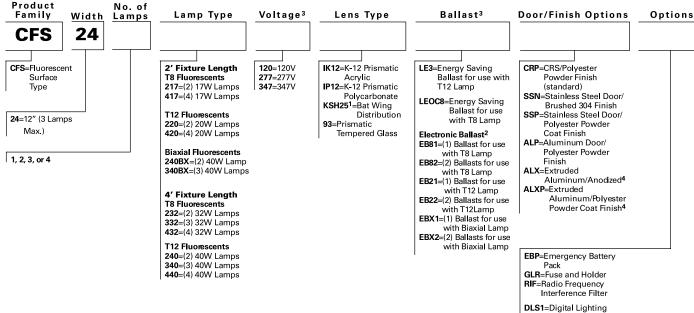
rc rw	80%				70%		50	50%		30%		10%		
	70	50	30	10	50	30	10	50	10	50	10	50	10	0
RCR														
0	81	81	81	81	79	79	79	75	75	72	72	69	69	68
1	75	72	69	67	70	68	66	67	64	65	62	62	60	59
2	69	64	60	57	63	59	56	61	55	58	54	56	52	51
3	64	58	53	49	57	52	48	55	48	53	47	51	46	45
4	59	52	46	42	51	46	42	49	42	48	41	46	40	39
5	54	46	41	37	46	40	36	44	36	43	36	42	35	34
6	50	42	36	32	41	36	32	40	32	39	31	38	31	30
7	46	38	32	28	37	32	28	36	28	35	28	34	28	26
8	43	34	28	25	33	28	24	33	24	32	24	31	24	23
9	39	30	25	21	30	25	21	29	21	29	21	28	21	20
10	37	28	22	19	27	22	19	27	19	26	19	25	19	17

rc=Ceiling reflectance, rw=Wall reflectance, RCR=Room cavity ratio

CU Data Based on 20% Effective Floor Cavity Reflectance.

ORDERING INFORMATION

SAMPLE NUMBER: CFS-24-440-120-IP12-LE3-SSP-EBP



For additional options, consult your Cooper Lighting Representative. Specifications and Dimensions subject to change without notice.

1 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.

² For specific electronic ballast, specify brand and catalog number.

³ Products also available in non-US voltages and 50Hz for international markets. Consult your Cooper Lighting Representative for availability and ordering information.

4 Not rated for 200 PSI hose down.

System Dimming

Housing Options

SHN=Stainless Steel, Brushed 304 Finish SHP=Stainless Steel

Polvester Powder

ALH=Aluminum, Polyester Powder Finish



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