DESCRIPTION

The CFG is designed for use in horizontal or non-laminar air flow clean rooms. The enclosed and gasketed housing and one-piece, outside door protects against infiltration of particles and airborne bacteria. The housing and door are designed to work with standard 1" and 1 1/2" T-grid ceilings. The gasketed door frame's design eliminates ledge or crevice exposure preventing the harboring of contaminants. The CFG hole-free housing prevents air exchange between the fixture and plenum. UL/cUL listed for wet locations under covered ceilings.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

Application

The CFG is suitable for use in I.E.S. Class 100, 1,000, 10,000 and 100,000 clean room environments and manufactured in accordance with U.S.D.A., F.D.A., N.S.F. and Federal Standard 209E. 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. Gloss: 85%; Reflectance: 93%; Hardness: 2H; Salt Spray: 500 Hours.

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. door with baked white polyester powder coat, fully gasketed, outside door with die-formed and beveled edges eliminates seams which could entrap microscopic contaminants. Optional doors available.

Gasket

White, closed cell, Flexiseal(TM) gasketing surrounds perimeter of lens to seal lens to door frame and around perimeter of door to seal door to ceiling system. 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

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.

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.

Rallas

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.

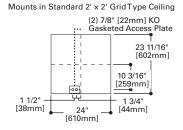


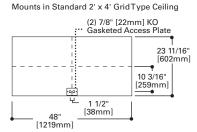
CFG

2x2 2x4 Cleanroom

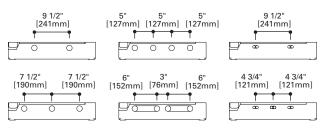
RECESSED GRID Overlapping Door 1" and 1-1/2" Grid

MOUNTING DIMENSIONS

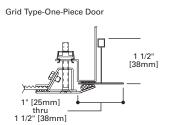




LAMP CONFIGURATIONS







ENERGY DATA

Input Watts:

STD Ballasts & STD Lamps

(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

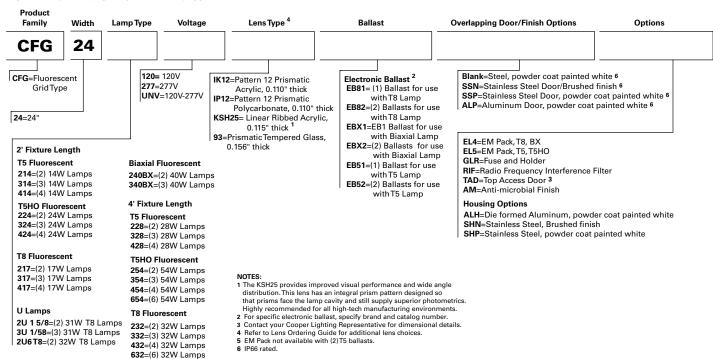
(3) 32W T8 Fluorescents: 108W (4) 32W T8 Fluorescents: 142W

Electronic Ballast Data

Consult Cooper Lighting Representative

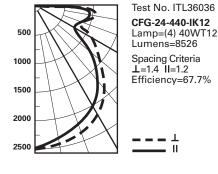
ORDERING INFORMATION

SAMPLE NUMBER: CFG-24-232-277-IK12-EB81-SSN



PHOTOMETRICS

Candlepower Distribution



Average Luminance

Deg.	Т	II								
45	1595	1323								
55	1154	980								
65	822	779								
75	871	857								
85	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		8	80%			70%		50)%	30%	6	10	0%	0%
rw	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=W all reflectance, RCR=Room cavity ratio

CU Data Based on 20% Effective Floor Cavity Reflectance.

