DESCRIPTION

The CHF Series is designed to deliver highly efficient H.I.D. lighting to clean areas. These H.I.D. units are ideal for ceiling heights up to 18'. Lower wattages are also available for standard 8' to 9' ceilings. Units are enclosed and gasketed to protect against the chance of foreign matter entering high tech environments through the light fixture. The housing and one-piece flanged door are designed to work with conventional sheet rock or plaster ceilings. Door frames include a gasket which eliminates ledge or crevice exposure preventing the harboring of contaminants. These luminaires are U.L. listed and C.S.A. certified for wet locations.

SPECIFICATION FEATURES

Application

The CHF Series is suitable for use in I.E.S. Clas 100, 1000, 10,000 and 100,000 clean room environments. Fixtures are manufactured in accordance with U.S.D.A., F.D.A., N.S.F. and Federal Standard 209E. 200 PSI Hose Down Rating is standard. Applications include clean rooms, technical and biomedical labs, food processing/ testing centers and pharmaceutical labs.

A ... Lens

One-piece, clear prismatic, tempered Corning lens with internal prism pattern. Choice of clear polycarbonate or clear tempered glass on environmental side.

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, 18 ga. CRS with tightly butted and spot 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.

D ... Lamps

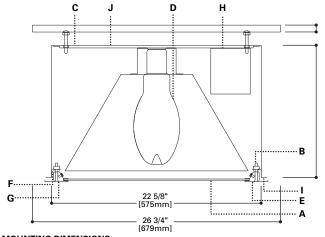
(By Others)

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

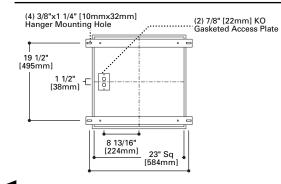
Two braided, stainless steel cables on one side of door provide hinging.



MOUNTING DIMENSIONS

COOPER Lighting

www.cooperlighting.com



G ... Door

Catalog #

Comments

Prepared by

Project

One-piece, 18 ga. door with baked white polyester powder coat, fully gasketed, outside door with dieformed edges eliminates seams which could entrap microscopic contaminants. Optional doors available.

H ... Ballast

Copper wound, HPF ballast is standard.

I ... 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 housing. Another layer seals fixture to ceiling system after installation.

J ... Access

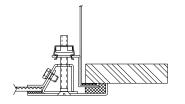
A gasketed access plate on top of the housing with two flattened, 7/8" diameter knockouts allows connection of vapor tight conduit fitting. Optional, above ceiling, top access door for luminaire maintenance is available and ideal for food processing and cleanroom applications.

Labels

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

DOOR FRAME

Flange Type-One-piece Door





CHF

250W - 400W Metal Halide

250W - 400W High Pressure Sodium

> 165W QL Induction

H.I.D. FLANGE One-Piece Door

ENERGY DATA

Input Watts:

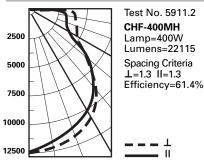
250W Metal Halide: 295W 400W Metal Halide: 458W 250W High Pressure Sodium: 295W 400W High Pressure Sodium: 457W

FAIL-SAFE®

Date

Specifications and Dimensions subject to change without notice. Consult your representative for additional options and finishes.

Candlepower Distribution



1

11

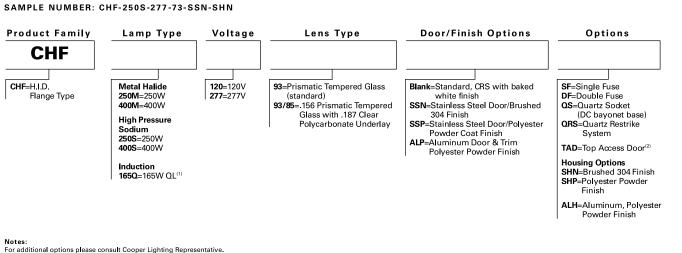
| age | | Zonal Lumen Summary | | | | | | | |
|-------|--|--|---|--|--|--|--|--|--|
| nance | | Zone | Lumens | %Lamp | %Luminaire | | | | |
| 1 | | 0-30 | 8404 | 23.3 | 38.0 | | | | |
| 8230 | 8120 | 0-40 | 13487 | 37.5 | 61.0 | | | | |
| 4758 | 4822 | 0-60 | 20037 | 55.7 | 90.6 | | | | |
| 3241 | 3011 | 0-90 | 22115 | 61.4 | 100.0 | | | | |
| 2539 | 2628 | 90-180 | 0 | 0.0 | 0.0 | | | | |
| 2021 | 2154 | 0-180 | 22115 | 61.4 | 100.0 | | | | |
| | nance ⊥ 8230 4758 3241 2539 | L II 8230 8120 4758 4822 3241 3011 2539 2628 | Zone L II 8230 8120 4758 4822 3241 3011 2539 2628 | Zone Lumens 1 II 0-30 8404 8230 8120 0-40 13487 4758 4822 0-60 20037 3241 3011 0-90 22115 2539 2628 90-180 0 | Zone Lumens %Lamp 1 II 0-30 8404 23.3 8230 8120 0-40 13487 37.5 4758 4822 0-60 20037 55.7 3241 3011 0-90 22115 61.4 90-180 0 0.0 0.0 | | | | |

Coefficient of Utilization

| rc | 80% | | | | 70% | | 50 | 50% | | 30% | | 10% | | |
|-----|-----|----|----|----|-----|----|----|-----|----|-----|----|-----|----|----|
| rw | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 10 | 50 | 10 | 50 | 10 | 0 |
| RCR | | | | | | | | | | | | | | |
| 0 | 73 | 73 | 73 | 73 | 71 | 71 | 71 | 68 | 68 | 65 | 65 | 63 | 63 | 61 |
| 1 | 68 | 66 | 64 | 62 | 65 | 63 | 61 | 62 | 59 | 60 | 58 | 58 | 56 | 55 |
| 2 | 64 | 60 | 57 | 54 | 59 | 56 | 53 | 57 | 52 | 55 | 51 | 53 | 50 | 49 |
| 3 | 59 | 54 | 50 | 47 | 53 | 50 | 47 | 52 | 46 | 50 | 45 | 49 | 44 | 43 |
| 4 | 55 | 49 | 45 | 41 | 48 | 44 | 41 | 47 | 40 | 46 | 40 | 44 | 39 | 38 |
| 5 | 51 | 44 | 40 | 36 | 44 | 39 | 36 | 42 | 36 | 41 | 35 | 40 | 35 | 34 |
| 6 | 47 | 40 | 36 | 32 | 40 | 35 | 32 | 39 | 32 | 38 | 32 | 37 | 31 | 30 |
| 7 | 44 | 37 | 32 | 29 | 36 | 32 | 28 | 35 | 28 | 34 | 28 | 34 | 28 | 27 |
| 8 | 41 | 33 | 28 | 25 | 33 | 28 | 25 | 32 | 25 | 31 | 25 | 30 | 25 | 24 |
| 9 | 38 | 30 | 25 | 22 | 29 | 25 | 22 | 29 | 22 | 28 | 22 | 28 | 22 | 21 |
| 10 | 35 | 27 | 23 | 20 | 27 | 23 | 20 | 26 | 19 | 26 | 19 | 25 | 19 | 18 |

rc=Ceiling reflectance, rw=W all reflectance, RCR=Room cavity ratio CU Data Based on 20% Effective Floor Cavity Reflectance.

ORDERING INFORMATION



Specifications and Dimensions subject to change without notice.

¹Available with 240V. For other voltages, consult your sales representative. ²Consult your Cooper Lighting Representative for dimensional details.

