



PRODUCT SPECIFICATION

The HFD series is designed for dust-free operation in surgical suites where maximum illumination is required in the operating zone.

Mounting

Mounts recessed in ceiling via swing brackets that extend and clamp with a single screw action.

Optical System

Precisely engineered V-Shaped reflector provides perfect asymmetrical/symmetrical distribution.

Lens

Optic Plus lens completely hides diode image while providing excellent light transmission.

Housing

18 gauge cold rolled steel die-formed to shape with ends welded and ground smooth.

Door

One-piece 18 gauge cold rolled steel, gasketed and sealed overlapping door. Full length adjustable brackets secure the lens to the door. Aluminum and stainless steel available.

Finish

Antimicrobial white powder-coat applied after phosphate pretreatment for superior adhesion and corrosion resistance. Brushed stainless steel door available.

Hardware

Stainless steel fasteners.

Driver

0-10Vdc dimming, Range 1%-100%
-40°C Min. starting temperature, >0.9 PF, <20% THD
or Tested and Certified MIL461 driver. See driver options.

Certifications

UL Listed wet location and IP65 rated.
Suitable for use in ISO 5 cleanrooms (209E Class 100).
Tested and Certified MIL461-F



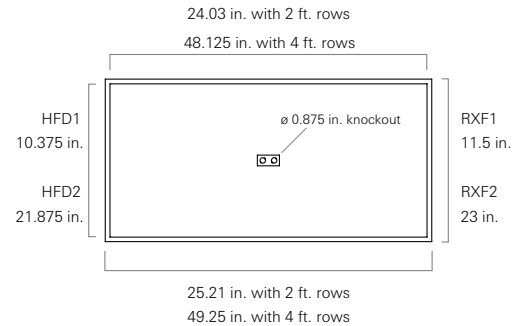
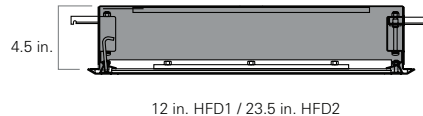
Job Name

Fixture Type

Catalog No.

Approval

Date



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one two three four five six seven eight nine ten eleven

- one Luminaire Size**
- 14 1 x 4 - three rows
- 22 2 x 2 - six rows
- 24 2 x 4 - six rows

- two LED Source**
- Refer to the LED Source Table on Page 2 for available options.

- three Color Temperature**
- 35 3500K
- 40 4000K
- 50 5000K

- four CRI**
- 80 Min 80 CRI
- 90 Min 90 CRI

- five Driver**
- DM 0-10VDC 1% Dimming, std
- MIL MIL461 Tested and Certified

- six Voltage**
- 120 120 V, 60 Hz
- 277 277 V, 60 Hz
- VAR Variable, 120-277 V, 50/60Hz

- seven Door Material**
- A Aluminum
- C Cold rolled steel, std
- S Stainless steel

- eight Door Finish**
- R Brushed stainless steel
- W White

- nine Internal Lens**
- 122 Optic Plus diffusing acrylic lens, std

- ten External Lens**
- 00 None (Not required with MIL461 driver)
- 123 RF Grid acrylic lens (Used with 122 lens for RF Filter projects)

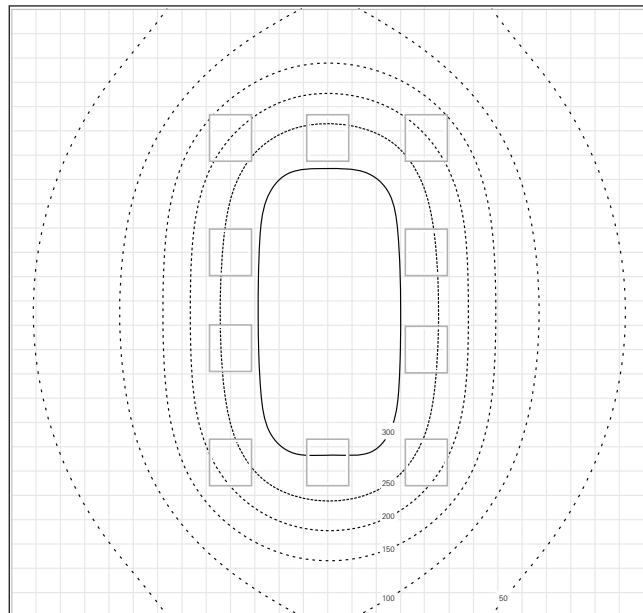
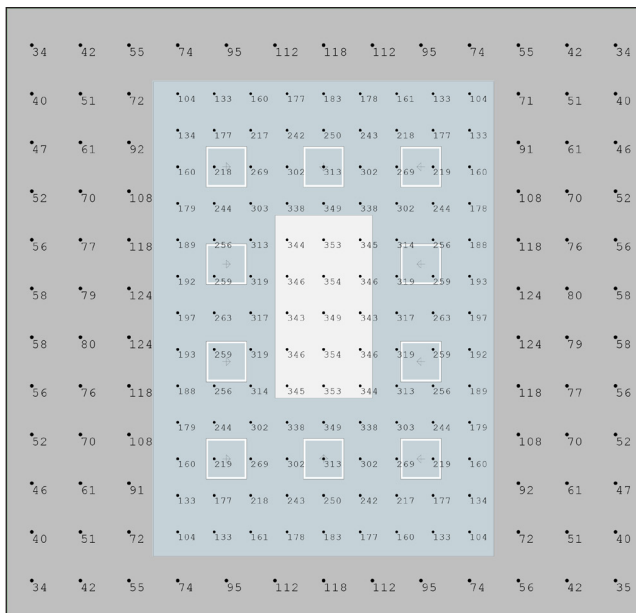
- eleven Options**
- CU Canadian UL Listing
- EM Emergency ballast
- FH Fuse and holder
- RF Radio interference filter, one per circuit (RF Not required with MIL461 Driver)

Modifications are available to meet custom requirements.

LED Source Values at 4000K / 90CRI

Option	DM - Output / Power			MIL - Output / Power		
	Delivered Lumens	Input Watts	Lumens / Watt	Delivered Lumens	Input Watts	Lumens / Watt
1 x 4						
HI	10769	100	107.7	9182	96	95.5
MD	8761	81	108.2	--	--	--
LO	6326	59	107.2	6152	64	96
2 x 2						
HI	10769	100	107.7	9182	96	95.5
MD	8761	81	108.2	--	--	--
LO	6326	59	107.2	6152	64	95.5
2 x 4						
HI	21138	191	110.7	18350	192	95.5
MD	16311	148	110.2	--	--	--
LO	11427	104	109.9	12300	128	96

Zone Values



luminaire	Zone 1		Zone 2		Zone 3	
(10) HFD-0002	average	347 fc	average	228 fc	average	73 fc
	max	354 fc	max	349 fc	max	124 fc
	min	343 fc	min	104 fc	min	34 fc
	average / min	1.01	average / min	2.20	average / min	2.16
	max / min	1.03	max / min	3.36	max / min	3.65

