

DESCRIPTION

4 inch LED recessed medium beam downlight with 50° cut off specially designed for LED technology. Two-stage reflector system produces smooth distribution with excellent light control and low aperture brightness. Lumen packages include 900, 1300 and 1800 lumens with color temperatures of 2700K, 3000K, 3500K, 4000K. Polycarbonate lensed upper optical chamber, with or without bottom clear lens. Reflector attached to plaster frame with (4) philips head, counter sunk, stainless screws, when incorporating flush bottom lens.

SPECIFICATION FEATURES

Lower Shielding Reflector

Self-flanged, spun .050" thick aluminum lower reflector in combination with a lensed upper optical chamber provides superior lumen output with minimal source brightness.

Trim Retention

For flush lens, the lower reflector is retained with (4) counter sunk, philips head screws, holding the flange tightly to the plaster frame. Regress lens reflector uses torsion springs.

Plaster Frame / Collar

Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2".

Universal Mounting Bracket

Accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box

(4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring.

Thermal

Extruded aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED

High brightness LED's combined with a high reflectance upper reflector and convex lens for even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's turn off when safe operating temperatures exceeded. Color variation within 3-step MacAdam ellipses. Disconnect allows for tool-less replacement of LED engine from below ceiling. Available 80 or 90 CRI.

Driver

Combination 120-277V 0-10V or 120V trailing edge phase cut driver provides flicker free dimming from 100% to 10%. Optional 1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Catalog

Project

Comments

Prepared by

Type

Date

Lens

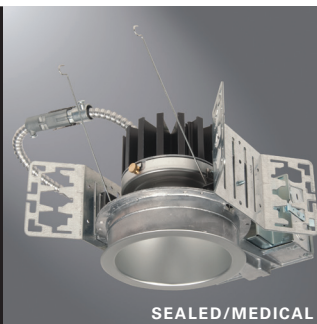
Regress lens is 0.060" thick frosted polycarbonate, flush bottom lens is either clear acrylic or polycarbonate up to 0.187" thick.

Code Compliance

Thermally protected and cULus listed for protected wet locations. Optional City of Chicago environmental air (CCEA) for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. Non-IC rated - insulation must be kept 3" from top and sides of housing. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 standards. LED life testing completed in accordance with LM 80 standards. IP65 standard, IP66 optional with flush lens. NSF Rated.

Warranty

5 Year Warranty.



SEALED/MEDICAL

**FLD4AX
FV/S4XLM1**

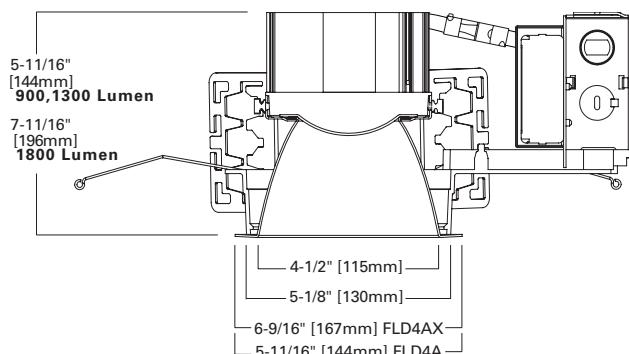
**FLD4A
FSR4LM1**

900, 1300, 1800 Lumen LED

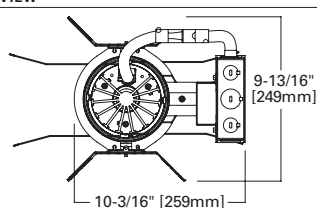
4-Inch

Medium Beam Downlight

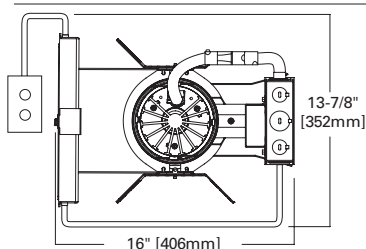
SEALED/MEDICAL



TOP VIEW



TOP VIEW - WITH BATTERY



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.



Powering Business Worldwide



powered by

fifthlight
technology



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ORDERING INFORMATION

EXAMPLE: Flush Bottom Lens

Housing: FLD4AX18DL3

Power Module: FERM4A18927

Reflector: FV/S4XLM1BL84 / IP66

Regress Lens

Housing: FLD4A13D010TR

Power Module: FERM4A13835

Reflector: FSR4LM1WMH

Housing	Lumens ¹	Driver	Options	Power Module	CRI	Color
Flush Bottom Lens FLD4AX =4" Aperture FLD4AXCP =4" Aperture, Chicago Plenum Regress Lens FLD4A =4" Aperture FLD4ACP =4" Aperture, Chicago Plenum 09 =900 Lumens 13 =1300 Lumens 18 =1800 Lumens		D010TE =120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming D5LT =Fifth Light® (DALI) Dimming 1-100% DE010 =1 to 100% Dimming, 120-277V 50/60Hz, 0-10V DL3 =1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3 Wire DLT =1 to 100% Dimming, 120V Lutron® Hi-Lume Forward Phase Dimming DMX =DMX Dimming 1-100% D010TR =120-277V 0-10V 10% Dimming or Leading Edge 120V Dimming	EMBOD =Bodine® Emergency Module with Remote Test Switch ² IEMBOD =Bodine® Emergency Module with Integral Test Switch ²	FERM4A09 =4,900 Lumen Module for Medium Beam Reflector FERM4A13 =4,1300 Lumen Module for Medium Beam Reflector FERM4A18 =4,1800 Lumen Module for Medium Beam Reflector	8 =80 CRI 9 =90 CRI	27 =2700° K 30 =3000° K 35 =3500° K 40 =4000° K 27CP =2700° K, Chicago Plenum 30CP =3000° K, Chicago Plenum 35CP =3500° K, Chicago Plenum 40CP =4000° K, Chicago Plenum

Reflector	Finish	Options	Accessories
Flush Bottom Lens ⁴ FV/S4XLM1 =4" Medium Reflector, Extended, Self-flange FV/S4XLM1E =4" Medium Reflector Extended, Self-flange for Integral Emergency Option Regress Lens ⁴ FSR4LM1 =4" Medium Reflector, Sealed, Self-flange FSR4LM1E =4" Medium Reflector Self-flange, Emergency Option	LI =Specular Clear H =Semi-Specular Clear WMH =Warm Haze W =White, Anti-microbial Matte	Flush Bottom Lens BL84 =Bottom lens, 0.125" thick clear polycarbonate ⁴ BL89BV =Bottom lens, 0.125" thick clear acrylic ⁴ BL84/IP66 =Bottom lens, 0.125" thick clear polycarbonate, IP66 rated ³ BL89BV/IP66 =Bottom lens, 0.125" thick clear acrylic, IP66 rated ³ Regress Lens WF =White Painted Flange	HB26 =C-channel Bar Hanger, 26" Long, Pair HB50 =C-channel Bar Hanger, 50" Long, Pair RMB22 =Wood Joist Bar Hanger, 22" Long, Pair H347 = 347 to 120V Step Down Transformer, 75VA H347200 =347 to 120V Step Down Transformer, 200VA

Notes: 1 Nominal Lumens will vary depending on selected color, driver and reflector finish.

2 Not available with Chicago Plenum.

3 IP66 rating, white gasket applied to reflector between flanges and lens. Similar appearance to "WF" white flange option.

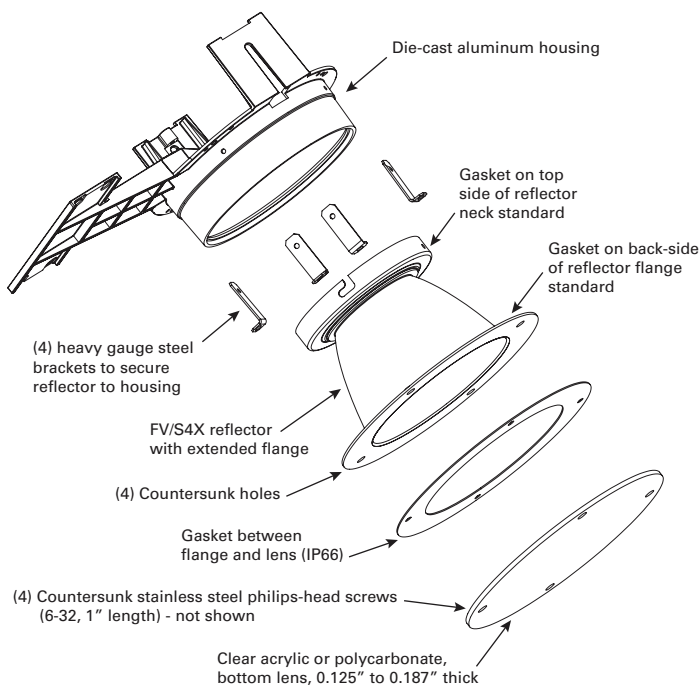
4 IP65 rated standard.

ENERGY

ENERGY DATA			
Sound Rating: Class A standards			
(Values at non-dimming line voltage)			
Minimum Starting Temperature: -30°C (-22°F)			
EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer)			
Input Voltage: UNV (120V - 277V)			
Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power)			
1800 Lumen D010TE		1300 Lumen D010TE	
Input Power: 31.5W	THD: <20%	Input Power: 22.4W	THD: <20%
120V Input Current: .27A	277V Input Current: .06A	120V Input Current: .12A	277V Input Current: .09A
Maximum Non-IC Ambient Continuous		Maximum Non-IC Ambient Continuous	
Input Frequency: 50/60Hz		Input Frequency: 50/60Hz	

900 Lumen D010TE			
Input Power: 14.1W	THD: <20%		
120V Input Current: .12A	277V Input Current: .06A		
Maximum Non-IC Ambient Continuous			
Input Frequency: 50/60Hz			

	120V		277V	
Lumens	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
900/1000	0.486	0.4	0.848	0.182
1300/1500	0.717	1.58	0.531	1.24
1800/2000	0.832	0.405	1.25	0.788



Note.

* Regress lens incorporates standard flange reflector with gasket on top-side of reflector neck and on back-side of reflector flange. Attached to housing with (2) torsion springs.

Flush Bottom Lens*