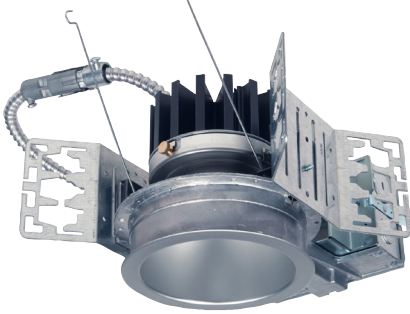


Project		Catalog #		Type	
Prepared by		Notes		Date	

***\*FLD6B is being replaced with FLD6C\****  
***Limited availability of FLD6B components***



## Fail-Safe

### FLD6B / FEU6B F6LB | LED

Vandal Resistant Sealed/Medical  
 1000-7000 lumens  
 Open Bottom Lens, Bottom Trim Ring  
 Class 100 (ISO 5-8), NSF Rated

#### Typical Applications:

Sealed / Medical • Vandal Resistant

#### Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Energy Data page 5
- Product Warranty

#### Product Certification



#### Product features



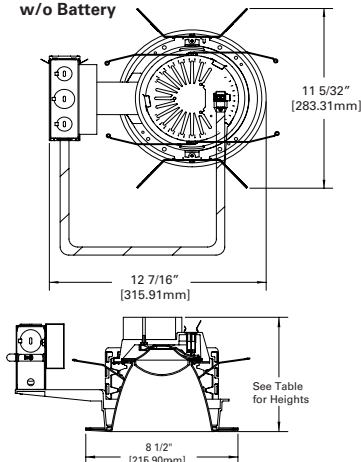
#### Top Product Features

- Bottom lens, bottom trim ring, or open styles
- Bottom lens thickness up to 0.375"
- Polycarbonate, acrylic, or glass lenses
- Stainless steel, countersunk screws
- Low glare for visual comfort
- Variety of reflector finishes
- Wet location standard
- Options to meet Buy American and other domestic preference requirements

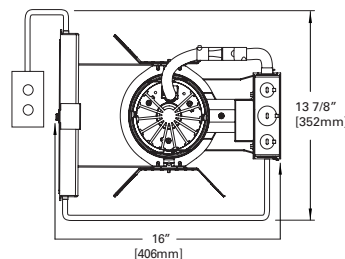
***FLD6B is being replaced with FLD6C.***  
***Limited availability of FLD6B components.***  
***Please refer to FLD6C for specifying and ordering.***  
***Use the FLD6B spec sheet for "B" to "C" conversion.***  
***June, 2023***

#### Dimensional and Mounting Details

Top View  
w/o Battery



Top View  
w/ Battery



Lumens	1000-2000 Lumens	3000-5000 Lumens	6000-7000 Lumens
Fixture Height	5-7/32" [132.46mm]	6 1/64" [152.65mm]	7-3/4" [197.10mm]

additional product diagrams

## Order Information

SAMPLE ORDER NUMBER: **FLD6B15D010EMBOD** (SEE PAGE 4 TO VERIFY HOUSING & TRIM COMPATABILITY)

Domestic Preferences	Housing	Lumens	Voltage	Driver	Options
Domestic Preferences <sup>(7)</sup>	Housing	Lumens <sup>(1)</sup>	Voltage	Driver	Options
<b>[Blank]</b> =Standard <b>BAA</b> =Buy American Act <b>TAA</b> =Trade Agreements Act	<b>Sealed/Medical Enclosed</b> <b>Vandal Open</b> <b>Vandal Enclosed</b> <b>FLD6BX</b> =Housing, Vandal open, Vandal enclosed, or Sealed /Medical enclosed, extended flange <b>FLD6BXC</b> =Housing, Vandal open, Vandal enclosed, or Sealed /Medical enclosed, extended flange, Chicago Plenum  <b>Sealed/Medical Open</b> <b>FLD6B</b> =Housing, Sealed Medical open, used with standard flanged reflector <b>FLD6BCP</b> =Housing, Sealed Medical open, used with standard flanged reflector, Chicago Plenum	<b>10</b> =1000 lumens <b>15</b> =1500 lumens <b>20</b> =2000 lumens <b>30</b> =3000 lumens <b>40</b> =4000 lumens <b>50</b> =5000 lumens <sup>(6)</sup> <b>60</b> =6000 lumens <sup>(6)</sup> <b>70</b> =7000 lumens <sup>(6)</sup>	<b>[Blank]</b> =120-277 Voltage <b>3</b> =347V (step down transformer)	<b>1000-4000 Lumen</b> <b>D010</b> =0-10V Dimming, 1% to 100%, 120V-277V <b>DE010</b> =0-10V Dimming, 0% to 100%, 120V-277V <b>DSL</b> =Fifth Light® (DALI) Dimming, 0% to 100%, 120V-277V <b>DL2</b> =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only <b>DLE</b> =Lutron Ecosystem dimming 1% to 100%, 120V-277V  <b>5000, 6000, and 7000 Lumen</b> <b>D010TE</b> =0-10V 1% or Trailing Edge, 10% to 100%, 120V-277V (120V Only for Trailing Edge Dimming)	<b>EMBOD</b> =Bodine® Emergency Module with Remote Test Switch <sup>(2), (3)</sup> <b>EM7</b> =7W Emergency Module with Remote Test Switch <sup>(2), (3)</sup> <b>EM14</b> =14W Emergency Module with Remote Test Switch <sup>(2), (3)</sup> <b>IEMBOD</b> =Bodine® Emergency Module with Integral Test Switch <sup>(2), (3)</sup> <b>IEM7</b> =7W Emergency Module with Integral Test Switch <sup>(2), (3)</sup> <b>IEM14</b> =14W Emergency Module with Integral Test Switch <sup>(2), (3)</sup>
<b>Notes</b> (7) Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to <a href="#">DOMESTIC PREFERENCES</a> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.		<b>Notes</b> (1) Nominal Lumens will vary depending on selected color, driver and reflector finish. (6) Product is marked spacing and must be installed with the following minimum spacing.			<b>Notes</b> (2) Not available with Chicago Plenum. (3) ULus listed only.

**FLD6B is being replaced with FLD6C.**  
**Limited availability of FLD6B components.**  
**Please refer to FLD6C for specifying and ordering.**  
**Use the FLD6B spec sheet for "B" to "C" conversion.**  
**June, 2023**

SAMPLE ORDER NUMBER: **FEU6B3/58035**

Power Module	Lumen Levels	CRI	Color
Power Module	Lumen Levels <sup>(1)</sup>	CRI	Color
<b>FEU6B</b> =6" Universal LED Module	<b>1/2</b> = 1000, 1500, 2000 lumens <b>3/5</b> =3000, 4000, 5000 lumens <b>6/7</b> =6000, 7000 lumens	<b>80</b> =80 CRI Minimum <b>90</b> =90 CRI Minimum <b>97</b> =97 CRI Minimum	<b>80 CRI</b> 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K  <b>90 CRI</b> 24=2400K 27=2700K 30=3000K 35=3500K 40=4000K 50=5000K  <b>97 CRI</b> 27=2700K 30=3000K
	<b>Dim 2 Warm</b> <b>109030D2W</b> =1000 lumen, 90 CRI, Dim 2 Warm <b>159030D2W</b> =1500 lumen, 90 CRI, Dim 2 Warm <b>209030D2W</b> =2000 lumen, 90 CRI, Dim 2 Warm		
	<b>Notes</b> (1) Nominal Lumens will vary depending on selected color, driver and reflector finish.		

SAMPLE ORDER NUMBER: **F6LBXVM1WMHBL84, F6LBXVM1HBTR84/66** (SEE PAGE 4 TO VERIFY HOUSING & TRIM COMPATABILITY)

Trim	Distribution	Flange	Reflector Finish	Options
Trim	Distribution <sup>(6)</sup>	Flange	Reflector Finish	Options
<b>F6LB</b> =6" LED Sealed/Medical (Open) <sup>(8)</sup> <b>F6LBXV</b> =6" LED Vandal Resistant (Open and Enclosed) <sup>(8)</sup> <b>F6LBXS</b> = 6" LED Sealed Medical (Enclosed) <sup>(8)</sup>	<b>M</b> =Medium (50° Beam), Spun Aluminum <b>SW</b> =Single Wall Wash Spun Aluminum (not IP rated) (Sealed/Medical open only) <sup>(2), (7)</sup>	<b>1</b> =Self-flanged (recommended for all bottom trim rings and VR bottom lens) <b>2</b> =White Painted Self-flanged (recommended for Sealed/Medical bottom lens) (not available with bottom trim ring, MW, or AMF reflector finish)	<b>LI</b> =Specular Clear <b>H</b> =Semi-Specular Clear <b>WMH</b> =Warm Haze <b>MW</b> =Matte White <b>AMF</b> =Antimicrobial Matte White <b>GW</b> =Gloss White <sup>(9)</sup>	<b>[Blank]</b> =Open, no bottom lens, or trim ring <b>E</b> =Integral Emergency Test Switch Hole <sup>(5)</sup> <b>FP</b> =NSF rated, non-food, splash zone <b>HS</b> =High Security (F6LBXV only) <sup>(11)</sup>  <b>Bottom Lens</b> (must use F6LBXV or F6LBXS) <sup>(8), (10)</sup> <b>BL84</b> =Bottom lens, 0.125" clear polycarbonate <b>BL85</b> =Bottom lens, 0.187" clear polycarbonate <b>BL86</b> =Bottom lens, 0.250" clear polycarbonate <b>BL89AM</b> =Bottom lens, 0.125" smooth opal polycarbonate  <b>Bottom Trim Ring</b> (standard AMF), (must use F6LBXV or F6LBXS) *ordering logic examples below with additional lens options available on page 4 <sup>(8), (9), (10)</sup> <b>BTR84</b> =Bottom trim ring with 0.125" clear polycarbonate lens <b>BTR85</b> =Bottom trim ring with .187" clear polycarbonate lens <b>BTR86</b> =Bottom trim ring with 0.250" clear polycarbonate lens <b>BTR89BV</b> =Bottom trim ring with 0.125" smooth clear acrylic lens
<b>Notes</b> (8) For open style, do not specify either Bottom Lens or Bottom Trim. For enclosed units, specify either Bottom Lens or Bottom Trim but not both.	<b>Notes</b> (2) Not available with Chicago Plenum. (6) Product is marked spacing and must be installed with the following minimum spacing. Center to center of adjacent luminaires: 36"; Center of luminaire to side of building member: 18" Minimum overhead: 1/2". (7) Not available on Vandal Resistant Open.		<b>Notes</b> (9) Bottom Trim Ring (BTR) is AMF standard. For Gloss White Bottom Trim Ring, specify BTRGW then the lens designation. Example: BTRGW84.	<b>Notes</b> (5) Only available with medium bottom lens, and bottom trims. Required with all IEMBOD, IEM7, IEM14 housings. (8) For open style, do not specify either Bottom Lens or Bottom Trim. For enclosed units, specify either Bottom Lens or Bottom Trim but not both. (9) Bottom Trim Ring (BTR) is AMF standard. For Gloss White Bottom Trim Ring, specify BTRGW then the lens designation. Example: BTRGW84. (10) Additional lens options for the BL (bottom lens) and BTR (bottom trim ring), available, see Downlight Lens Guide on page 4. (11) HS only available on F6LBXV trim with BTR84, BTR85, or BTR86 bottom trim rings. F6LBXV bottom trim is only compatible with FLD6BX housing.

## Accessories

Accessories <sup>(13)</sup>

**HSA6**=Slope Adapter for 6" Aperture Housings, Specify Slope  
**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  
**PORLWTPD1**=LumaWatt Pro wireless sensor kit (0-10V only)  
**TMSWPD1**=WaveLinX tilemount daylight sensor (includes control module, sensor, cable and tile mount)

## Notes

(13) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.

## Product Specifications

## 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 sealed/medical and vandal resistant bottom lens and bottom trim ring, the lower reflector is retained with (4) counter sunk screws.
- Sealed/Medical versions utilize Philips head screws. Vandal Resistant versions utilize Torx ® T20 screws with center pin reject.
- Open Sealed/Medical reflector uses torsion springs.
- Bottom Trim Ring is standard anti-microbial matte white.

## LED

- High brightness LED's combined with a high reflectance upper reflector and convex lens for even distribution with no pixilation.
- Lumen output shall not decrease by more than 10% over the minimum life of 55,000 hours (L90 > 55,000 hours).
- 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, 90, or 97 CRI.

## Driver

- Combination 120-277V 0-10V or 120V trailing edge phase cut driver provides flicker free dimming from 100% to 10%.
- Optional for 1000-4000 lumens, 1% 0-10V, Fifth Light, or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

## Lenses

- All versions include a nonremovable upper lens, 0.060" thick frosted polycarbonate.
- Bottom lens is a single, smooth, acrylic or polycarbonate up to .500" thick.
- Bottom trim ring lens is acrylic, polycarbonate, or tempered glass up to .375" total thickness.
- Additional lens options are available on page 4.

## Code Compliance







- cULus listed for wet locations under covered ceiling standard.
- Class 100 (ISO 5-8 certified)
- NSF rated.
- Non-IC rated insulation must be kept 3" from top and sides of housing.
- NSF and IP options available, please reference chart on page 4.

## Warranty

- 5 Year Warranty.

**FLD6B is being replaced with FLD6C.**  
**Limited availability of FLD6B components.**  
**Please refer to FLD6C for specifying and ordering.**  
**Use the FLD6B spec sheet for "B" to "C" conversion.**  
**June, 2023**

## Housing, Trim Compatibility and Listings Chart

COMPATABILITY CHART						
SEALED/MEDICAL			VANDAL RESISTANT/HIGH ABUSE			
DIAGRAM						
Description	OPEN	ENCLOSED BOTTOM LENS	ENCLOSED BOTTOM TRIM RING	OPEN	ENCLOSED BOTTOM LENS	ENCLOSED BOTTOM TRIM RING
Housing	FLD6C FLD6CCP	FLD6CX, FLD6CXP		FLD6CX, FLD6CXP		
Wet Location	Standard	Standard	Standard	Standard	Standard	Standard
NSF	Available	Available	Available	Not Available	Not Available	Not Available
IP65/66	IP65 Standard	*IP65 Available	IP66 Standard	IP65 available	*IP65 Available	IP66 available
Class100/ISO	Standard	Not Available	Standard	Standard w/IP65	Not Available	Standard w/IP66
Ceiling Cut-Out Dimensions	5.688" - 6.325"	8.000" - 8.186"	8.000" - 8.186"	8.000" - 8.186"	8.000" - 8.186"	8.000" - 8.186"

IP65 & IP66 ratings are from the room-side only on all applications.

Sealed/Medical (Bottom Lens)

\*IP65 available. The sealed medical with bottom lens option is the IP65 compliant open reflector - with an attached bottom lens. During the IP65 test, no dust entered into the reflector from the bottom lens, but a miniscule amount of water did enter (on top of the bottom lens). However, no water can penetrate the upper reflector, and enter into the electrical - and there remains an impenetrable seal between the ceiling and the luminaire.  
For IP65, specify at end of logic. Ex: F6LCXSM1LIBL84/65

Sealed/Medical (Open & Bottom Trim Ring)

IP65 or IP66 is standard on open & enclosed bottom trim ring, no need to specify in the ordering logic.

Vandal Resistant/High Abuse (Open)

IP65 available  
For IP65, specify at end of logic. Ex: F6LCXVM1LI/65

Vandal Resistant/High Abuse (Bottom Lens)

\*IP65 available. The sealed medical with bottom lens option is the IP65 compliant open reflector - with an attached bottom lens. During the IP65 test, no dust entered into the reflector from the bottom lens, but a miniscule amount of water did enter (on top of the bottom lens). However, no water can penetrate the upper reflector, and enter into the electrical - and there remains an impenetrable seal between the ceiling and the luminaire.  
For IP65, specify at end of logic. Ex: F6LCXVM1LIBL85/65

Vandal Resistant/High Abuse (Bottom Trim Ring)

IP66 available  
For IP65, specify at end of logic. Ex: F6LCXVM1LIBTR86/66

## Lens Guide

Downlight Lens Guide				
Lens	Description	Bottom Trim (BTR) (Total Maximum Lens Thickness is .375")	Bottom Lens (BL) (Single Smooth Acrylic or Polycarbonate Lens Only)	Open
80	Acrylic, Prismatic Pattern 12, 0.125"		N/A	N/A
89AG	Acrylic, Prismatic Pattern 19, 0.156"		N/A	N/A
89BV	Acrylic, Smooth, Clear 0.125"			N/A
89BW	Acrylic, Smooth, Opal 0.125"			N/A
94	Glass, Tempered, Smooth, Clear, 0.187"		N/A	N/A
89AH	Polycarbonate, Prismatic Pattern 12, 0.125"		N/A	N/A
82	Polycarbonate, Prismatic Pattern 12, 0.187"		N/A	N/A
84	Polycarbonate, Smooth, Clear 0.125"			N/A
85	Polycarbonate, Smooth, Clear 0.187"			N/A
86	Polycarbonate, Smooth, Clear 0.250"			N/A
87	Polycarbonate, Smooth, Clear 0.375"			N/A
89AM	Polycarbonate, Smooth, Opal 0.125"			N/A

**FLD6B is being replaced with FLD6C.**  
**Limited availability of FLD6B components.**  
**Please refer to FLD6C for specifying and ordering.**  
**Use the FLD6B spec sheet for "B" to "C" conversion.**  
**June, 2023**

## Energy Data

[View IES files](#)

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)
Input Frequency: 50/60Hz

1000 Lumen D010		1500 Lumen D010	
Input Power: 11W	THD: <14%	Input Power: 15.5W	THD: <13%
120V Input Current: 0.09A	277V Input Current: 0.04A	120V Input Current: 0.13A	277V Input Current: 0.06A
2000 Lumen D010		3000 Lumen D010	
Input Power: 21.2W	THD: <9%	Input Power: 27.6W	THD: <10%
120V Input Current: 0.18A	277V Input Current: 0.08A	120V Input Current: 0.23A	277V Input Current: 0.10A
4000 Lumen D010		5000 Lumen D010TE	
Input Power: 41.6W	THD: <13%	Input Power: 57.9W	THD: <14%
120V Input Current: 0.35A	277V Input Current: 0.15A	120V Input Current: 0.49A	277V Input Current: 0.22A
6000 Lumen D010TE		7000 Lumen D010TE	
Input Power: 59.7W	THD: <14%	Input Power: 75.8W	THD: <13%
120V Input Current: 0.50A	277V Input Current: 0.22A	120V Input Current: 0.64A	277V Input Current: 0.29A

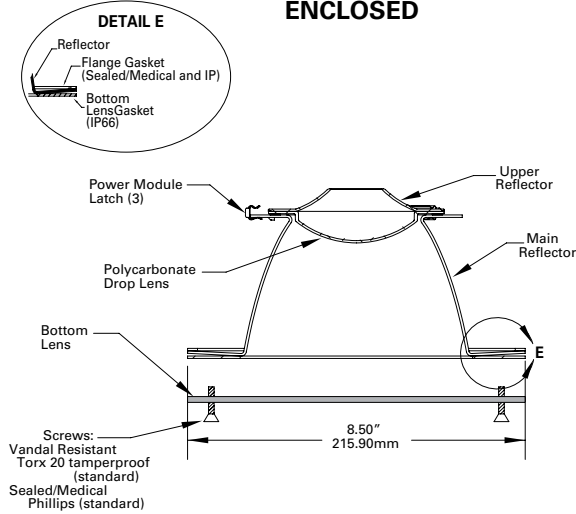
Lumens	120V		277V	
	Inrush (A)	Duration (ms)	Inrush (A)	Duration (ms)
1000 Lumen D010	1.02	0.041	2.18	0.021
1500 Lumen D010	1.02	0.042	2.24	0.064
2000 Lumen D010	1.02	0.077	2.43	0.027
3000 Lumen D010	1.15	0.067	3.26	0.027
4000 Lumen D010	1.2	0.088	3.9	0.03
5000 Lumen D010TE	5.1	0.132	10.2	0.153
6000 Lumen D010TE	5.4	0.123	10.8	0.154
7000 Lumen D010TE	4.9	0.13	9.8	0.156

**Effective 5-2-23, FLD6B is being replaced with FLD6C**

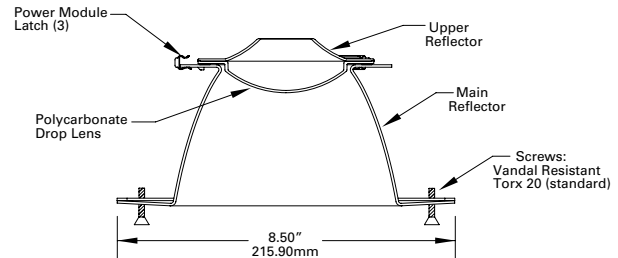
**Please refer to FLD6C for specifying and ordering.  
Use the FLD6B spec sheet for "B" to "C" conversion.**

## Dimensional and Mounting Details

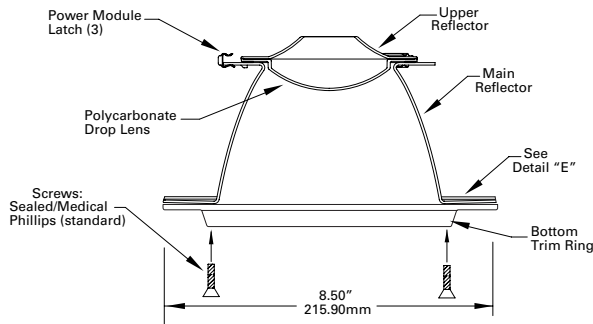
### VANDAL RESISTANT & SEALED/MEDICAL BOTTOM LENS ENCLOSED



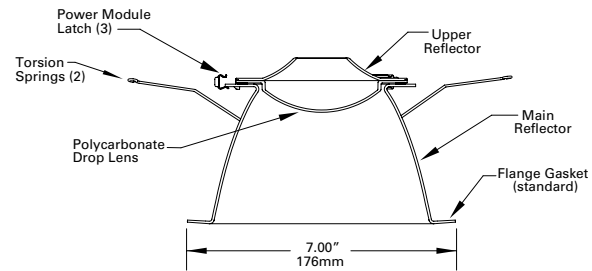
### VANDAL RESISTANT OPEN



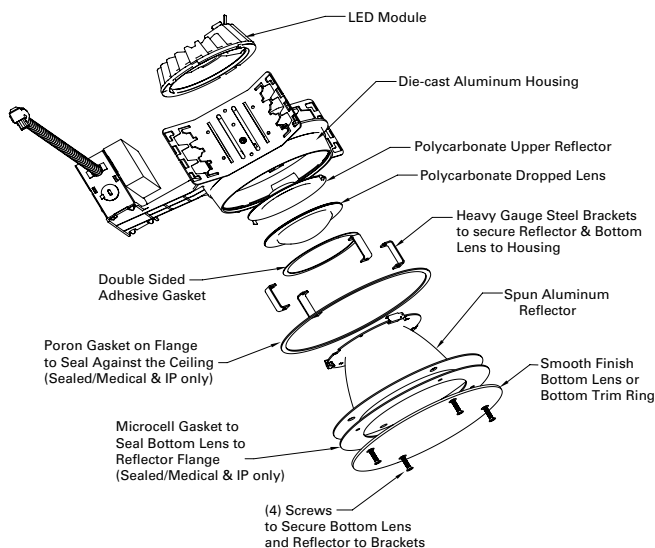
### SEALED/MEDICAL BOTTOM TRIM RING ENCLOSED



### SEALED/MEDICAL OPEN



### ENCLOSED BOTTOM LENS or BOTTOM TRIM RING



**NOTE:**  
Sealed Medical Regress Lens has gasket on flange to seal against ceiling and is attached to housing with torsion springs.

**Effective 5-2-23, FLD6B is being replaced with FLD6C**

**Please refer to FLD6C for specifying and ordering.  
Use the FLD6B spec sheet for "B" to "C" conversion.**