Project		Catalog #		Type	
Prepared by		Notes		Date	
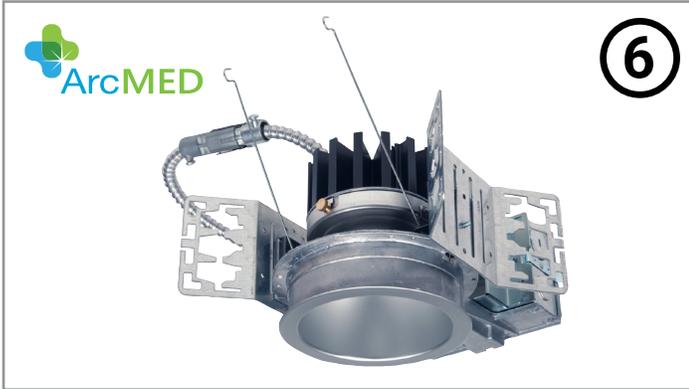
ArcMED ⑥

Fail-Safe
FLD6C

ArcMED

Vandal Resistant / High Abuse
Sealed/Medical
6" Round Downlight
250-9,000 lumens

Typical Applications:
Sealed / Medical • Vandal Resistant • Behavioral Health • Patient Rooms • Food Service
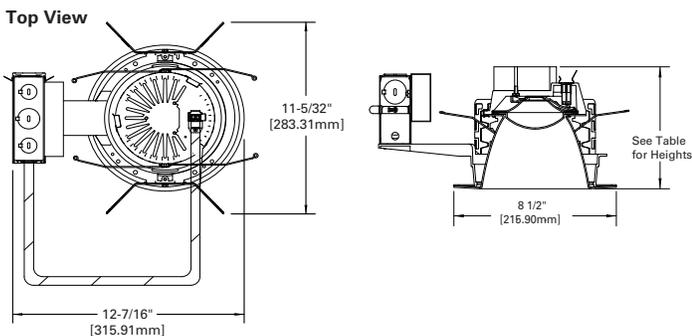
🖈 Interactive Menu

Product Certification

UL CERTIFIED · RoHS COMPLIANT · ENERGY STAR · T24 Efficiency Standards Can be used to comply with California Title 24 Non-Residential · IK10 · IP65 · IP66 · NSF · LIGATURE RESISTANT · ISO SYSTEMS CERTIFIED

Product features

wet location · D2W · IALDLIRC · BioUp Melanopic Lighting · BAA BUY AMERICAN ACT AVAILABLE

LINEAR DISCONNECT
Designed to provide safe and convenient means of disconnecting power

Top Product Features

- From 250 to 9,000 lumens for design flexibility
- Wet location standard (under covered ceiling)
- NSF listed for easy cleaning and wipe-down
- Choice of 6 reflector finishes
- Glass, acrylic, or polycarbonate bottom lens available for additional protection. Ligature resistant.
- IK10 impact resistant rated with polycarbonate bottom lens
- BioUp available for a 30% Biological Impact boost, compared to traditional LED sources
- Vandal resistant/high abuse, open or enclosed; Ligature resistant
- Options to meet Buy American and other domestic preference requirements

Dimensional and Mounting Details

Top View

11-5/32" [283.31mm]

See Table for Heights

8 1/2" [216.90mm]

12-7/16" [315.91mm]

See page 6 for dimnsional details.

🖈 **additional product diagrams**

Below are SKUs that typically ship within 15-20 days.

	Open Housing	Lumens	Module	CCT
15 Days	FLD6C-10-D010	1000	FEU6C-1025-90-30	3000K
	FLD6C-15-D010	1500	FEU6C-1025-90-35	3500K
	FLD6C-20-D010	2000	FEU6C-1025-90-40	4000K
	FLD6C-30-D010	3000	FEU6C-3040-90-30	3000K
	FLD6C-40-D010	4000	FEU6C-3040-90-35	3500K
			FEU6C-3040-90-40	4000K

	Enclosed Housing	Lumens	Module	CCT
20 Days	FLD6CX-10-D010	1000	FEU6C-1025-90-30	3000K
	FLD6CX-15-D010	1500	FEU6C-1025-90-35	3500K
	FLD6CX-20-D010	2000	FEU6C-1025-90-40	4000K
	FLD6CX-30-D010	3000	FEU6C-3040-90-30	3000K
	FLD6CX-40-D010	4000	FEU6C-3040-90-35	3500K
			FEU6C-3040-90-40	4000K

Notes: Housing is 1% dimming, UNV

COOPER
Lighting Solutions
a Signify business

1. HOUSING

SAMPLE: **FLD6CX-20-D010**
FLD6CX-40-DE010-IEM14 (housing to accept enclosed reflector - 4 brackets - vandal or sealed/medical)
FLD6C-80-1D5LT (housing to accept open reflector - no brackets - sealed/medical)

Domestic Preferences (1)	Vandal/ High Abuse Housing	Sealed/Medical Housing	Lumens (2)	Color Control
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**Vandal Open** **FLD6CX**=Housing, used with extended flanged reflector **FLD6CXCP**=Housing, used with extended flanged reflector, Chicago Plenum **Vandal Enclosed** **FLD6CX**=Housing, used with extended flanged reflector **FLD6CXCP**=Housing, used with extended flanged reflector, Chicago Plenum	**Sealed/Medical Open** **FLD6C**=Housing, used with standard flanged reflector **FLD6CCP**=Housing, used with standard flanged reflector, Chicago Plenum **Sealed/Medical Enclosed** **FLD6CX**=Housing, used with extended flanged reflector **FLD6CXCP**=Housing, used with extended flanged reflector, Chicago Plenum	**02**=250 lumens **50**=5000 lumens (3) **05**=500 lumens **55**=5500 lumens (3) **08**=800 lumens **60**=6000 lumens (3) **10**=1000 lumens **65**=6500 lumens (3) **15**=1500 lumens **70**=7000 lumens (3) **20**=2000 lumens **75**=7500 lumens (3) **25**=2500 lumens **80**=8000 lumens (3) **30**=3000 lumens **90**=9000 lumens (3) **35**=3500 lumens **40**=4000 lumens **45**=4500 lumens (3)	**D2W**=Dim to warm (blank for all others)
Notes (1) 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 DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.	**Vandal Open** — FLD6CX **Vandal Enclosed** — FLD6CX **VANDAL/HIGH ABUSE**	**Sealed/Medical Open** — FLD6C **Sealed/Medical Enclosed** — FLD6CX **SEALED/MEDICAL**	**Notes** (2) Nominal Lumens will vary depending on selected color, driver and reflector finish. (3) Product is marked spacing. Reference table on page 7 for the spacing details.	**Notes** D2W Max. 7000 lumens. Available 800-2500, 3500 to 5000, and 7000 lumens. See power module, next page.

Housing Driver	Fixture (Housing) Options	Accessories (7)
D010=0-10V Dimming, 1% to 100%, 120V-277V, up to 7000 lumens **1D010**=0-10V Dimming, 1% to 100%, 120V, 7500 lumens & above **2D010**=0-10V Dimming, 1% to 100%, 277V, 7500 lumens & above **3D010**=0-10V Dimming, 1% to 100%, 347V, dedicated drivers, 800-4000 lumens, 250, 500, 4500 & above use step down transformer **1 driver:** 250-7000, **2 drivers:** 7500-12000 **DE010**=0-10V Dimming, 0% to 100%, 120V-277V, 500-7000 lumens **1DE010**=0-10V Dimming, 0% to 100%, 120V, 7500 lumens & above **2DE010**=0-10V Dimming, 0% to 100%, 277V, 7500 lumens & above **3DE010**=0-10V Dimming, 0% to 100%, 347V, step down transformer, 500-12000 lumens **1 driver:** 250-7000, **2 drivers:** 7500-12000 **D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V-277V, 500-7000 lumens **1D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 120V, 7500 lumens & above **2D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 277V, 7500 lumens & above **3D5LT**=Fifth Light® (DALI T6) Logarithmic Dimming, 0% to 100%, 347V, step down transformer, 500-12000 lumens **1 driver:** 250-7000, **2 drivers:** 7500-12000 **DLE**=Lutron Ecosystem Dimming, 1% to 100%, 120V-277V, 800-3500 lumens **1DLE**=Lutron Ecosystem Dimming, 1% to 100%, 120V, 4000-7500 lumens **2DLE**=Lutron Ecosystem dimming 1% to 100%, 277V, 800-4000-7500 lumens **3DLE**=Lutron Ecosystem dimming 1% to 100%, 347V, step down transformer, 800-7500 lumens **Tunable White** **DE010-W2N-2765**=Tunable white 2700-6500K, 0-10V Dimming, 0% to 100%, 120-277V 1000 lumens **1DE010-W2N-2765**=Tunable white 2700-6500K, 120V, 0-10V Dimming, 0% to 100%, 1500-5000 lumens **2DE010-W2N-2765**=Tunable white 2700-6500K, 277V, 0-10V Dimming, 0% to 100%, 1500-5000 lumens **3DE010-W2N-2765**=Tunable white 2700-6500K, 347V with step down transformer, 0-10V Dimming, 0% to 100%, 1000-5000 lumens **1 driver:** 1000-3500 lumens, **2 drivers:** 4000-5000 lumens **DE010-W2N-2050**=Tunable white 2000-5000K, 0-10V Dimming, 0% to 100%, 120-277V 1000 lumens **1DE010-W2N-2050**=Tunable white 2000-5000K, 120V, 0-10V Dimming, 0% to 100%, 1500-5000 lumens **2DE010-W2N-2050**=Tunable white 2000-5000K, 277V, 0-10V Dimming, 0% to 100%, 1500-5000 lumens **3DE010-W2N-2050**=Tunable white 2000-5000K, 347V with step down transformer, 0-10V Dimming, 0% to 100%, 1000-5000 lumens **1 driver:** 1000-3500 lumens, **2 drivers:** 4000-5000 lumens **D5LT-W2N-2765**=Tunable white 2700-6500K, 120V-277V Fifth Light® (DALI T6) Dimming, 0% to 100%, 120-277V 1000 lumens **1D5LT-W2N-2765**=Tunable white 2700-6500K, 120V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1500-5000 lumens **2D5LT-W2N-2765**=Tunable white 2700-6500K, 277V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1500-5000 lumens **3D5LT-W2N-2765**=Tunable white 2700-6500K, 347V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1000-5000 lumens **1 driver:** 1000-3500 lumens, **2 drivers:** 4000 lumens **D5LT-W2N-2050**=Tunable white 2000-5000K, 120V-277V Fifth Light® (DALI T6) Dimming, 0% to 100%, 120-277V 1000 lumens **1D5LT-W2N-2050**=Tunable white 2000-5000K, 120V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1500-5000 lumens **2D5LT-W2N-2050**=Tunable white 2000-5000K, 277V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1500-5000 lumens **3D5LT-W2N-2050**=Tunable white 2000-5000K, 347V with step down transformer Fifth Light® (DALI T6) Dimming, 0% to 100%, 1000-5000 lumens **1 driver:** 1000-3500 lumens, **2 drivers:** 4000-5000 lumens **BioUp** (see next page)	**EMBOD**=Bodine® Emergency Module with Remote Test Switch, 7 watt (10) **EM7**=7W Emergency Module with Remote Test Switch (4), (5), (6) **EM14**=14W Emergency Module with Remote Test Switch (4), (5), (6) **IEMBOD**=Bodine® Emergency Module with Integral Test Switch, 7 watt (4), (5) **IEM7**=7W Emergency Module with Integral Test Switch (4), (5) **IEM14**=14W Emergency Module with Integral Test Switch (4), (5) **ETRD**=Emergency Transfer Device (24)	**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 (4) Not available with Chicago Plenum. (5) ULus listed only. (6) Transfer time from normal to EM power > 1 second. (24) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others)	**Notes** (7) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult technical support for further information.

1. HOUSING (continued)

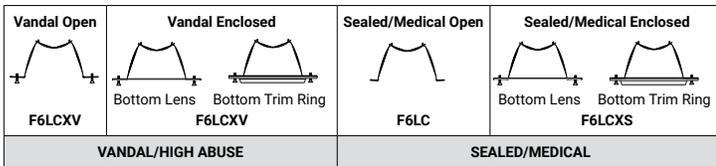| Housing Driver	Fixture (Housing) Options	Accessories [7]
BioUp (continued) **DE010B2750**=BioUp tunable white 2700-5000K, 0-10V Dimming, 0% to 100%, 120-277V 800 lumens **1DE010B2750**= BioUp tunable white 2700-5000K, 120V, 0-10V Dimming, 0% to 100%, 1000-4000 lumens **2DE010B2750**= BioUp tunable white 2700-5000K, 277V, 0-10V Dimming, 0% to 100%, 1000-4000 lumens **3DE010B2750**= BioUp tunable white 2700-5000K, 347V with step down transformer, 0-10V Dimming, 0% to 100%, 800-4000 lumens **1 driver:** 800-2500 lumens; **2 drivers:** 3000-4000 lumens **DE010B35, DE010B40, DE010B50** = BioUp Static White (choose 3500K, 4000K or 5000K), 0-10V Dimming, 0% to 100%, 120-277V 800 lumens **1DE010B35, 1DE010B40, 1DE010B50** = BioUp Static White (choose 3500K, 4000K or 5000K), 120V, 0-10V Dimming, 0% to 100%, 1000-4000 lumens **2DE010B35, DE010B40, DE010B50** = BioUp Static White (choose 3500K, 4000K or 5000K), 277V, 0-10V Dimming, 0% to 100%, 1000-4000 lumens **3DE010B35, 3DE010B40, 3DE010B50** = BioUp Static White (choose 3500K, 4000K or 5000K) 347V with step down transformer, 0-10V Dimming, 0% to 100%, 800-4000 lumens **1 driver:** 800-2500 lumens; **2 drivers:** 3000-4000 lumens **D5LTB2750**=BioUp Tunable white 2700-5000K, 120V-277V Fifth Light® (DALI T6) Dimming, 0% to 100%, 120-277V 800 lumens **1D5LTB2750**= BioUp Tunable white 2700-5000K, 120V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1000-4000 lumens **2D5LTB2750**= BioUp Tunable white 2700-5000K, 277V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1000-4000 lumens **3D5LTB2750**= BioUp Tunable white 2700-5000K, 347V with step down transformer Fifth Light® (DALI T6) Dimming, 0% to 100%, 800-4000 lumens **1 driver:** 800-2500 lumens; **2 drivers:** 3000-4000 lumens	**EMBOD**=Bodine® Emergency Module with Remote Test Switch, 7 watt [10] **EM7**=7W Emergency Module with Remote Test Switch [4], [5], [6] **EM14**=14W Emergency Module with Remote Test Switch [4], [5], [6] **IEMBOD**=Bodine® Emergency Module with Integral Test Switch, 7 watt [4], [5] **IEM7**=7W Emergency Module with Integral Test Switch [4], [5] **IEM14**=14W Emergency Module with Integral Test Switch [4], [5] **ETRD**=Emergency Transfer Device [24]	**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
D5LTB35, D5LTB40, D5LTB50= BioUp Static White (choose 3500K, 4000K or 5000K), 120V-277V Fifth Light® (DALI T6) Dimming, 0% to 100%, 120-277V 800 lumens **1D5LTB35, 1D5LTB40, 1D5LTB50**= BioUp Static White (choose 3500K, 4000K or 5000K), 120V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1000-4000 lumens **2D5LTB35, 2D5LTB40, 2D5LTB50**= BioUp Static White (choose 3500K, 4000K or 5000K), 277V Fifth Light® (DALI T6) Dimming, 0% to 100%, 1000-4000 lumens **3D5LTB35, 3D5LTB40, 3D5LTB50**= BioUp Static White (choose 3500K, 4000K or 5000K), 347V with step down transformer Fifth Light® (DALI T6) Dimming, 0% to 100%, 800-4000 lumens, **1 driver:** 800-2500 lumens; **2 drivers:** 3000-4000 lumens	**Notes** (4) Not available with Chicago Plenum. (5) ULus listed only. (6) Transfer time from normal to EM power > 1 second. (24) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others)	**Notes** (7) Accessories sold separately will be separately analyzed under domestic preference requirements. Consult technical support for further information.

2. MODULE

SAMPLE: **FEU6C-1025-90-24** **FEU6C-4080-97-27** **FEU6C-0820B-9035**
FEU6C-3545-90-30-D2W **FEU6C-4050-W2N-90-2050**

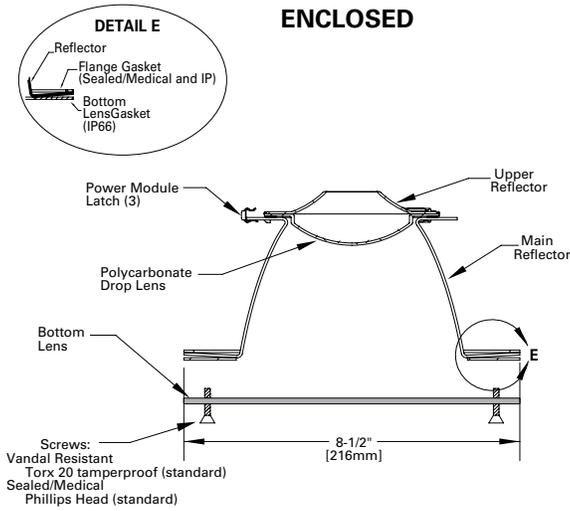| Domestic Preferences [1]	Power Module	Lumen Levels [2]	CRI	Color	
[Blank]=Standard **BAA**=Buy American Act **TAA**=Trade Agreements Act	**FEU6C**=6-inch Universal LED Module	**For use with one driver** **0208IC**=250, 500 and 800 lumens, IC Rated (for use with all drivers, min 500 lumens with DE010 and D5LT, min 800 lumens with Lutron) **1025**=1000, 1500, 2000, 2500 lumens **1015IC**=1000, 1500 lumens IC Rated **3040**=3000, 3500, 4000 lumens (for use with Lutron 3000-3500, D010, D5LT and DE010 3000-4000) **4560**=4500, 5000, 5500, 6000 lumens (for use with D010, D5LT and DE010 4500-6000) [3] **6570**=6500, 7000 lumens (for use with D010, D5LT and DE010) [3] **For use with two drivers** **4080**=4000, 4500, 5000, 5500, 6000, 6500, 7000, 7500, 8000 lumens, (for use with Lutron 4000-7500 D010, D5LT & DE010 7500-8000 lumens) [3] **90120**=9000, 10000, 11000, 12000 lumens (D010, D5LT, DE010 to 9000 lumens [3]	**90**=90 CRI Minimum **97**=97 CRI Minimum	**90 CRI** **24**=2400K **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	**97 CRI** **27**=2700K **30**=3000K
		98 CRI Thrive **0208IC**=250, 500 and 800 lumens 98 CRI, IC rated (For use with all drivers, min 500 lumens with DE010 and D5LT, min 800 lumens with Lutron) **1025**=1000, 1500, 2000 and 2500 lumens, 98 CRI (For use with D010, DE010 Lutron 1000-2500 lumens) **3045**=3000, 3500, 4000 and 4500 lumens, 98 CRI (For use with D010, D5LT and DE010 3000-4500 lumens)	**98**=98 CRI Minimum	**98 CRI** **27**=2700K **30**=3000K **35**=3500K **40**=4000K **50**=5000K	
		Dim 2 Warm [26] **0825-90-30-D2W**=800-2500 lumen, 90 CRI, Dim 2 Warm (1 driver and 1 LED) [24] **3545-90-30-D2W**=3500-4500 lumen, 90 CRI, Dim 2 Warm (2 drivers and LEDs) **70-90-30-D2W**=7000 lumens, 90 CRI, Dim 2 Warm (3 drivers and LEDs) [3] **Tunable white** **1030-W2N-90-2765**=1000, 1500, 2000, 2500, 3000 lumens, 90 CRI, tunable white 2700K-6500K [25] **1030-W2N-90-2050**=1000, 1500, 2000 , 2500, 3000 lumens, 90 CRI, tunable white 2000K-5000K [25] **35-W2N-90-2765**=3500 lumens, 90 CRI, tunable white 2700K-6500K [3] **35-W2N-90-2050**=3500 lumens, 90 CRI, tunable white 2000K-5000K [3] **4050-W2N-90-2765**=4000, 4500, 5000 lumens, 90 CRI, tunable white 2700K-6500K (2 drivers and LEDs) [3] **4050-W2N-90-2050**=4000, 4500, 5000 lumens, 90 CRI, tunable white 2000K-5000K (2 drivers and LEDs) [3]			
		BioUp Tunable White		**CRI / Color**	
		BioUp Tunable white **0820B**=800, 1000, 1500, 2000 lumens, 90 CRI [24] **2500B**=2500 lumens, 90 CRI [3] **3040B**=3000, 3500, 4000 lumens, 90 CRI [3]		**9035**= Static 3500K **9040**=Static 4000K **9050**=Static 5000K **902750**=BioUp Tunable White 2700K-5000K	
Notes (1) 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 DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.		**Notes** (2) Nominal Lumens will vary depending on selected color, CRI, driver and reflector finish. Reference IES files. (3) Product is marked spacing. Reference table on page 7 for the spacing details. (24) IC rated for 800 lumens. (25) IC rated for 1000 lumens. (26) 5000 lumen package unavailable in Dim 2 Warm.	Do not specify CRI or CCT with Dim 2 Warm. Dim 2 Warm is only available with 3000K and 90 CRI.		

3. TRIM/REFLECTOR

SAMPLES: **F6LC-M-1-LI** — (open reflector, sealed/medical)
F6LCXV-M-2-H-BL86 — (enclosed reflector, vandal, bottom lens, 0.25" clear polycarbonate lens)
F6LCXS-M-1-LI-BL89BV — (enclosed reflector, sealed/medical, bottom lens, 0.125" smooth clear acrylic lens)

Base Trim	Distribution [11]	Flange	Reflector Finish	Trim Options [24]
Vandal Resistant [9] **F6LCXV**=(open) **F6LCXV**=(enclosed) **Sealed/Medical** **F6LC**=(open) **F6LCXS**=(enclosed)	**All Trims** **M**=Medium (50° Beam), Spun Aluminum **Sealed/Medical Open Only (F6LC Only)** **W**=Wide (Sealed/Medical open only) **SW**=Single Wall Wash Spun Aluminum (not IP rated) (Sealed/Medical open only) [10], [12] **N**=Narrow, Spun Aluminum [13] **PS**=Non-conductive, Shallow (Dead Front) [16], [17]	**1**=Self-flanged [18] **2**=White Painted Self-flanged (not available with bottom trim ring, MW, or AMF reflector finish)	**LI**=Specular Clear [20] **H**=Semi-Specular Clear [20] **WMH**=Warm Haze [20] **MW**=Matte White **AMF**=Antimicrobial,Matte White **GW**=Gloss White [22]	**E**=Integral Emergency Test Switch Hole [14] **HS**=High Security (F6LCXV only) [23] **Bottom Lens (enclosed only)** [19], [21] **BL84**=Bottom lens, 0.125" clear polycarbonate **BL85**=Bottom lens, 0.187" clear polycarbonate **BL86**=Bottom lens, 0.250" clear polycarbonate **BL89AM**=Bottom lens, 0.125" smooth opal polycarbonate **BL89BV**=Bottom lens, 0.125" smooth clear acrylic **Bottom Trim Ring (enclosed only)** [19], [21], [22] **BTR84**=Bottom trim ring with 0.125" clear polycarbonate lens **BTR85**=Bottom trim ring with .187" clear polycarbonate lens **BTR86**=Bottom trim ring with 0.250" clear polycarbonate lens **BTR89BV**=Bottom trim ring with 0.125" smooth clear acrylic lens *For IP65 and IP66 - Refer to Compatibility Chart on Page 8
Notes (9) Vandal resistant open and enclosed, same trim catalog logic. The words vandal, vandal resistant, and high abuse are used interchangeably.	**Notes** (10) Not available with Chicago Plenum. (11) 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". (12) Not available on Vandal Resistant Open. (13) Use with single LED driver (16) PS available in self-flanged MW finish only (17) Offered up to 2000 lumens.	**Notes** (18) Flange is same finish as the reflector.	**Notes** (20) Anodized or spun reflectors.	**Notes** (14) Only available with medium bottom lens, and is required for all IEM housings.. (19) 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. (21) Additional lens options for the BL (bottom lens) and BTR (bottom trim ring), available, see Downlight Lens Guide on page 8. (22) Bottom Trim Ring (BTR) is AMF standard. For Gloss White Bottom Trim Ring, specify BTRGW then the lens designation. Example: BTRGW84. (23) HS only available on F6LCXV trim with BTR84, BTR85, or BTR86 bottom trim rings. F6LCXV bottom trim is only compatible with FLD6CX housing. (24) NSF listing is only available with the Sealed/Medical Open or Sealed/Medical Enclosed with Phillips head screws.

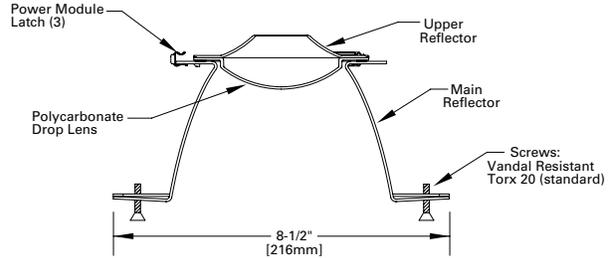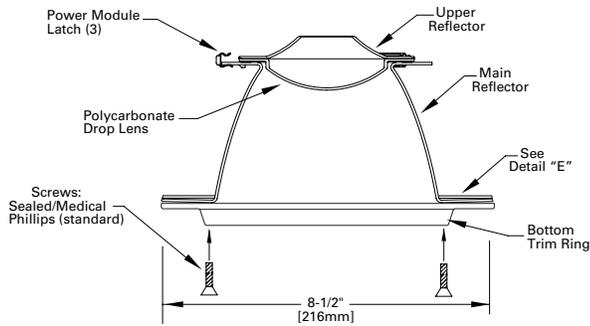| Vandal Open	Vandal Enclosed	Sealed/Medical Open	Sealed/Medical Enclosed
F6LCXV	Bottom Lens Bottom Trim Ring **F6LCXV**	**F6LC**	Bottom Lens Bottom Trim Ring **F6LCXS**
VANDAL/HIGH ABUSE		**SEALED/MEDICAL**	

Dimensional and Mounting Details

VANDAL RESISTANT/ HIGH ABUSE & SEALED/MEDICAL BOTTOM LENS
ENCLOSED

DETAIL E
- Reflector
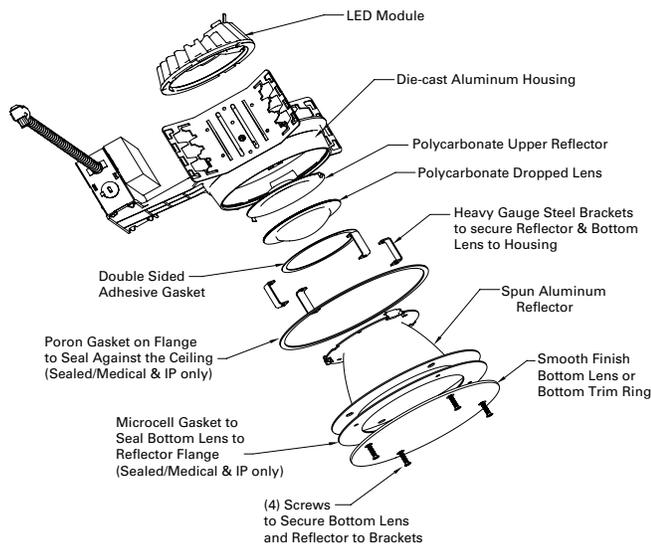- Flange Gasket (Sealed/Medical and IP)
- Bottom Lens Gasket (IP66)

- Power Module Latch (3)
- Upper Reflector
- Polycarbonate Drop Lens
- Main Reflector
- Bottom Lens
- E
- Screws: Vandal Resistant Torx 20 tamperproof (standard) Sealed/Medical Phillips Head (standard)

8-1/2" [216mm]

VANDAL RESISTANT/ HIGH ABUSE
OPEN

- Power Module Latch (3)
- Upper Reflector
- Polycarbonate Drop Lens
- Main Reflector
- Screws: Vandal Resistant Torx 20 (standard)

8-1/2" [216mm]

SEALED/MEDICAL BOTTOM TRIM RING
ENCLOSED

- Power Module Latch (3)
- Upper Reflector
- Polycarbonate Drop Lens
- Main Reflector
- See Detail "E"
- Screws: Sealed/Medical Phillips (standard)
- Bottom Trim Ring

8-1/2" [216mm]

SEALED/MEDICAL
OPEN

- Power Module Latch (3)
- Upper Reflector
- Torsion Springs (2)
- Polycarbonate Drop Lens
- Main Reflector
- Flange Gasket (standard)

7" [176mm]

ENCLOSED BOTTOM LENS or BOTTOM TRIM RING

- LED Module
- Die-cast Aluminum Housing
- Polycarbonate Upper Reflector
- Polycarbonate Dropped Lens
- Heavy Gauge Steel Brackets to secure Reflector & Bottom Lens to Housing
- Double Sided Adhesive Gasket
- Spun Aluminum Reflector
- Poron Gasket on Flange to Seal Against the Ceiling (Sealed/Medical & IP only)
- Smooth Finish Bottom Lens or Bottom Trim Ring
- Microcell Gasket to Seal Bottom Lens to Reflector Flange (Sealed/Medical & IP only)
- (4) Screws to Secure Bottom Lens and Reflector to Brackets

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

Below are SKUs that typically ship within 15 days.

6" Round

Housing	Module
FLD6C-10-D010	FEU6C-1025-90-30
FLD6CX-10-D010	FEU6C-1025-90-35
FLD6C-15-D010	FEU6C-1025-90-40
FLD6CX-15-D010	
FLD6C-20-D010	
FLD6CX-20-D010	
FLD6C-30-D010	FEU6C-3040-90-30
FLD6CX-30-D010	FEU6C-3040-90-35
FLD6C-40-D010	FEU6C-3040-90-40
FLD6CX-40-D010	

Dimensional and Mounting Details

DOWNLIGHT

11-1/8" [283mm]

11-15/16" [303mm]

MAX HEIGHT (SEE TABLE)

Inside Diameter

6-3/8" [161mm]

Flange Diameter

EM OPTION

13-3/4" [349mm]

16-3/4" [426mm]

WALL WASH

11-1/8" [283mm]

11-15/16" [303mm]

MAX HEIGHT (SEE TABLE)

Inside Diameter

6-3/8" [161mm]

Flange Diameter

EM OPTION

13-3/4" [349mm]

16-3/4" [426mm]
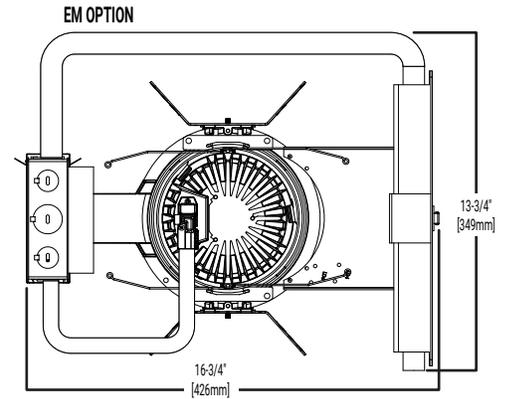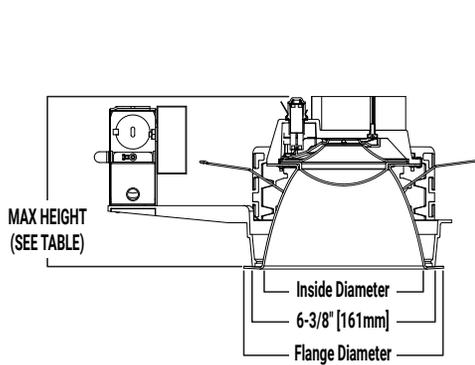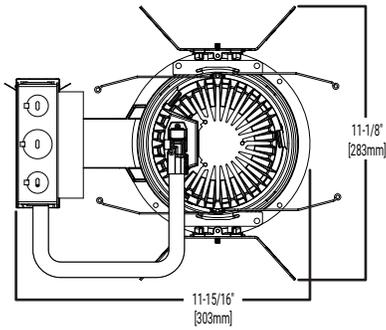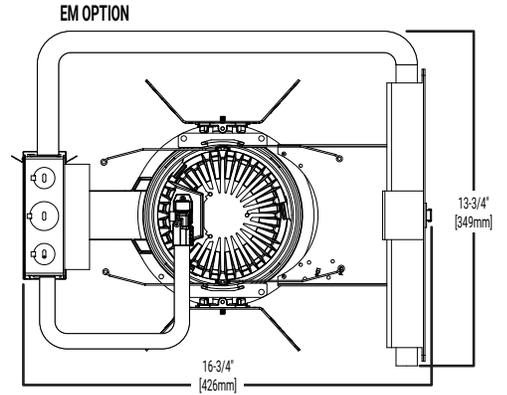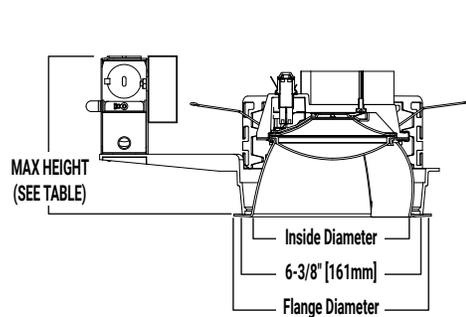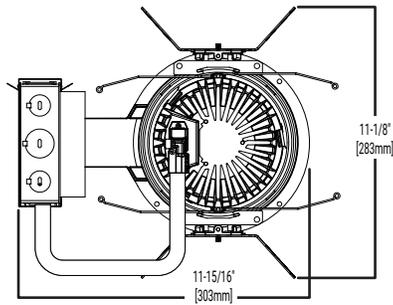
Trim Type	Flange DIAMETER [IN]	INSIDE DIAMETER [IN]	MAX HEIGHT				
			250-2500 LUMENS	3000-4000 LUMENS	1000-1500IC LUMENS	6500-7000 LUMENS	9000 LUMENS
Narrow	6.94	5.54	5.7	5.9	6.1	7.1	9.1
Medium	6.94	5.54	5.7	5.9	6.1	7.1	9.1
Wide	6.94	5.56	5.6	5.6	5.6	6.2	8.2
Plastic (Dead Front)	6.94	5.66	5.6	5.6	5.6	5.6	6.7
Wall Wash, Single	6.94	5.56	5.6	5.6	5.6	6.2	8.2

Energy and Performance Data

D010 DRIVER ENERGY DATA

Series	250 lumen		500 lumen		800 lumen		1000 lumen		1500 lumen		2000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.029	0.017	0.061	0.032	0.085	0.041	0.084	0.042	0.135	0.063	0.189	0.084
Input Power (W)	3.45	3.87	7.33	7.78	10.15	10.52	10.04	10.43	16.17	16.56	22.58	22.63
In-rush (A)	2.1	8.5	3.7	8.5	3.6	8.3	3.6	8.4	2.3	9.5	2.1	9.7
Inrush duration (µs)	250	131	190	136	220	135	226	136	230	125	243	132
THDi (%)	7.21	16.92	7.82	10.78	5.57	9.63	7.78	9.24	4.75	9.93	8.03	7.44
PF	≥ 0.98	≥ 0.9	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.96

Series	2500 lumen		3000 lumen		3500 lumen		4000 lumen		4500 lumen		5000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.276	0.121	0.276	1.121	0.333	0.152	0.404	0.181	0.421	0.192	0.491	0.216
Input Power (W)	32.98	32.57	32	32.57	39.83	39.84	48.38	47.94	50.22	50.17	58.69	58.01
In-rush (A)	2.5	11.8	3.6	11.8	3.1	14.3	3.1	14.5	5.6	22.6	5.6	22.6
Inrush duration (µs)	215	111	220	111	200	94	197	95	215	120	213	135
THDi (%)	9.86	6.57	5.57	6.57	4.25	10.05	5.02	7.97	6.12	8.35	8.51	7.92
PF	≥ 0.99	≥ 0.97	≥ 0.99	≥ 0.99	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.95	≥ 0.99	≥ 0.96

Series	5500 lumen		6000 lumen		6500 lumen		7000 lumen		7500 lumen		8000 lumen	
Input Voltage 120-277VAC	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V
Input Current (A)	0.526	0.231	0.542	0.256	0.572	0.266	0.632	0.292	0.668	0.306	0.734	0.332
Input Power (W)	62.97	61.97	64.88	65.7	68.35	69.02	75.56	75.85	79.89	80.09	88.01	87.81
In-rush (A)	5.1	23.1	6.2	27.5	6.3	28.4	6.4	29.1	6.4	28.7	6.3	29.7
Inrush duration (µs)	217	138	188	101	189	92	187	90	185	100	187	123
THDi (%)	9.42	7.16	4.33	11.86	4.38	11.33	4.84	10.32	4.46	9.85	3.92	8.92
PF	≥ 0.99	≥ 0.96	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.93	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.94	≥ 0.99	≥ 0.95

Series	9000 lumen	
Input Voltage 120-277VAC	120V	277V
Input Current (A)	0.842	0.374
Input Power (W)	101.12	99.88
In-rush (A)	12.9	28.6
Inrush duration (µs)	170	97
THDi (%)	5.74	9.28
PF	≥ 0.99	≥ 0.95

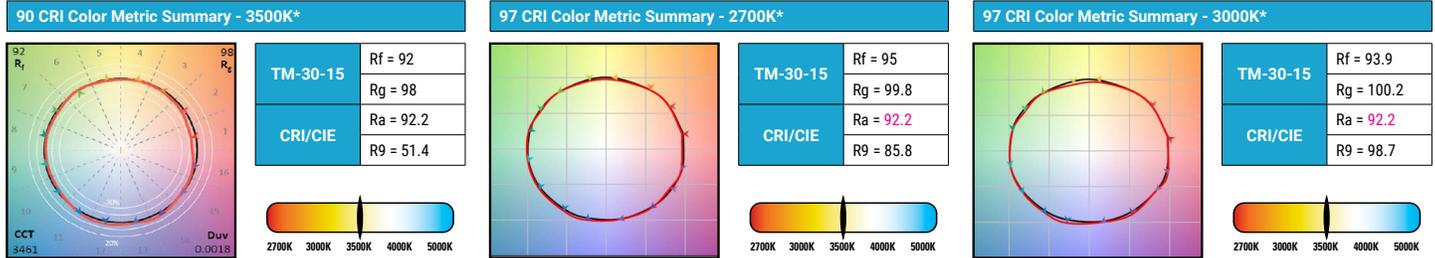| |
|---|
| Minimum starting temperature -30°C (-22°F)* (Nominal input 120-277VAC & 100% of rated output power) |
| Sound Rating: Class A standards |

Notes:
Emergency Battery packs are rated for a minimum starting temperature of 0°C.

Marked Spacing

6-inch Marked spacing for 90 and 97 CRI			
4500-6000	36"	36"	6
6500-9,000	36"	36"	8

COLOR METRICS - TM-30-15 & CRI/CIE

90 CRI Color Metric Summary - 3500K*

TM-30-15	Rf = 92
	Rg = 98
CRI/CIE	Ra = 92.2
	R9 = 51.4

97 CRI Color Metric Summary - 2700K*

TM-30-15	Rf = 95
	Rg = 99.8
CRI/CIE	Ra = 92.2
	R9 = 85.8

97 CRI Color Metric Summary - 3000K*

TM-30-15	Rf = 93.9
	Rg = 100.2
CRI/CIE	Ra = 92.2
	R9 = 98.7

* Color values are based on haze reflector, other finishes and field results may vary.

COLOR METRICS - TM-30-15 & CRI/CIE

98 CRI Color Metric Summary - 3500K*

TM-30-15	Rf = 97
	Rg = 100
CRI/CIE	Ra = 92.2
	R9 = 51.4
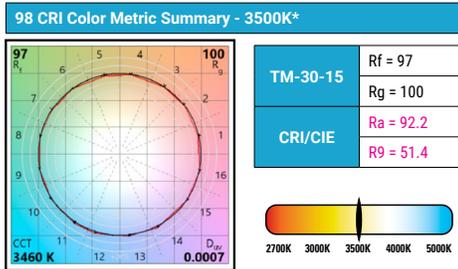
* Color values are based on haze reflector, other finishes and field results may vary.

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/high abuse 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 paint.

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, 97, or 98 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 0.250" thick.
- Bottom trim ring lens is acrylic, polycarbonate, or tempered glass up to .0.250" total thickness.
- Additional lens options are available on page 8.
- Bottom polycarbonate lens IK10 impact resistant rated

Code Compliance
- cULus listed for wet locations under covered ceiling standard.
- Non-IC rated insulation must be kept 3" from top and sides of housing.
- NSF/ANSI 2 certified for Splash/NonFood Zone. Typical rating for lighting equipment not subjected to direct food contact. This listing is only applicable with Sealed/Medical Open or Sealed/Medical Enclosed using Phillips head screws)
- FCC CFR Title 47 Part 15 Class B at 120VAC and Class A at 277VAC
- IP65 & 66 rated from below the luminaire/ceiling when specified in the ordering logic

Warranty
- 5 year limited warranty

View IES files

Downlight Lens Guide

| | | BTR | BL | |
| | | Bottom Trim (BTR) (Total Maximum Lens Thickness is .375") | Bottom Lens (BL) (Single Smooth Acrylic or Polycarbonate Lens Only) | |
Lens	Description			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"		IK10	N/A
85	Polycarbonate, Smooth, Clear 0.187"		IK10	N/A
86	Polycarbonate, Smooth, Clear 0.250"		IK10	N/A
87	Polycarbonate, Smooth, Clear 0.375"		IK10	N/A
89AM	Polycarbonate, Smooth, Opal 0.125"		IK10	N/A

The title row of the table reads: **Downlight Lens Guide**

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, FLD6CXCP		FLD6CX, FLD6CXCP		
Wet Location	Standard	Standard	Standard	Standard	Standard	Standard
NSF	Standard	Standard	Standard	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 inpenetrable 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 inpenetrable 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

Proven Research. Industry Recognized.
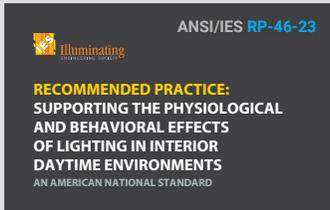
BioUp
Melanopic Lighting

See better   **Feel better**   **Function better**

See BioUp brochure for more details

ANSI/IES RP-46-23

RECOMMENDED PRACTICE: SUPPORTING THE PHYSIOLOGICAL AND BEHAVIORAL EFFECTS OF LIGHTING IN INTERIOR DAYTIME ENVIRONMENTS
AN AMERICAN NATIONAL STANDARD

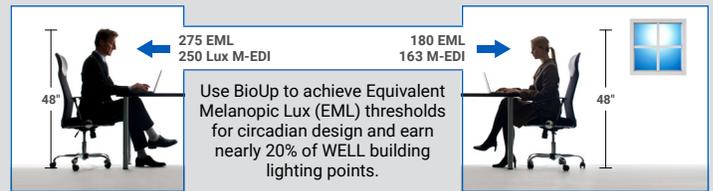ANSI/IES RP-46-23 / TM18 published March 2024 based on over 40 years of research.

"...circadian clock synchronization is paramount to the body's efficient and appropriate functioning." – TM18

INTERNATIONAL WELL BUILDING INSTITUTE™

BioUp solutions maximize WELL points for Circadian Lighting Design (L03):

275 EML
250 Lux M-EDI

180 EML
163 M-EDI

48"

Use BioUp to achieve Equivalent Melanopic Lux (EML) thresholds for circadian design and earn nearly 20% of WELL building lighting points.

48"

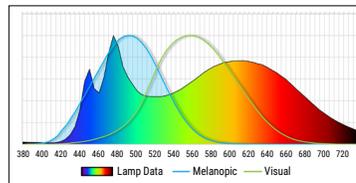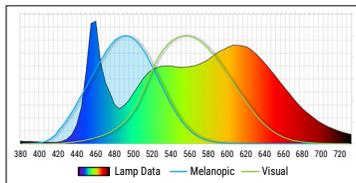**MDER, M-EDI** and **EML** are key metrics used to quantify non-visual performance of indoor lighting systems.

See BioUp white paper for more details

MDER - Melanopic Daylight Efficacy Ratio (MDER) measures the amount of light stimulating to the melanopsin receptors.

Standard 4000K LED
MDER = .62

BioUp 4000K LED
MDER = .82

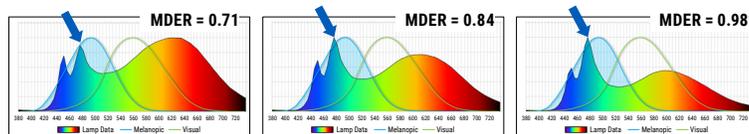## 30% boost Biological impact
compared to traditional LED sources

CCT	LED MDER ~83 CRI	BioUp Static		BioUp Dynamic	
		MDER	CRI	MDER	CRI
2700K	0.44	–	–	0.43	95
3000K	0.49	–	–	0.54	94
3500K	0.56	0.71	90	0.71	90
4000K	0.64	0.84	87	0.82	87
5000K	0.77	0.98	84	0.98	84

BioUp enhances the LED spectrum with cyan light at 475nm increasing the biological impact of the light to enhance our circadian rhythm which regulates our sleep/wake cycle, daytime engagement, and mood – *all without distorting visual color impression.*

Static (non-tunable)
Static BioUp is used when simple Melanopic Lighting is desired at all times.

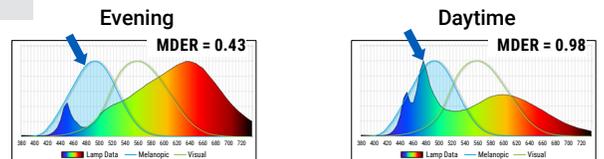**Arrow** in graph shows BioUp spectrum boost is at 475nm where non-visual biological response is enhanced.

Dynamic - (Tunable)
Dynamic BioUp is used when Melanopic Lighting is desired to adjust during the day.

MDER = 0.71

MDER = 0.84

MDER = 0.98

Evening
MDER = 0.43

Daytime
MDER = 0.98

3500K or **4000K** or **5000K**

Cyan light component always present

Dimming Control   0%   Intensity   100%

❯ no CCT control needed

Warmer CCT **Without** Cyan content

Cooler Light **With** Cyan content

2700K – 5000K

CCT Control   warm 2700K   CCT   cool 5000K

Dimming Control   0%   Intensity   100%

❯ Control with Wavelinx, 2ch 0-10V, or DALI

COOPER Lighting Solutions
a Signify business