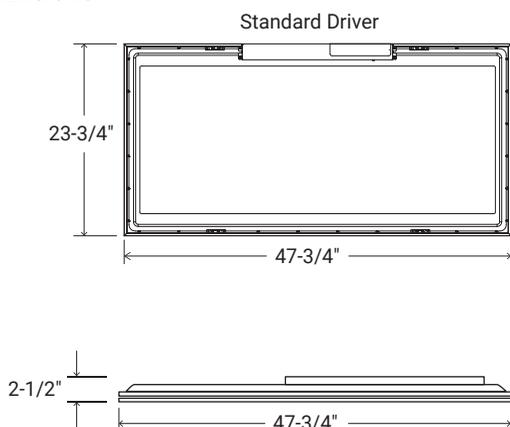




DIMENSIONS



3000L/4000L/5000L/6000L

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	6264	47W
5000	5218	38W
4000	4163	30W
3000	3242	22W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

5000L/6000L/7000L/8000L

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
8000	7980	60W
7000	6997	53W
6000	6264	47W
5000	5218	38W

Based on 4000K, 85+ CRI. Actual wattage may vary +/- 5%

FEATURES

The FPL-BL-SFZ-LED is a sealed, high-efficiency LED troffer engineered for sterile and controlled environments. It delivers uniform, dimmable, and glare-free illumination while preventing contamination transfer between the fixture and its surroundings.

Certified for IP65, NSF/ANSI Standard 2, and ISO 3-9 rated cleanroom use, the FPL-BL-SFZ-LED is ideal for pharmaceutical, healthcare, and laboratory applications. Its sealed, gasketed construction and recessed mounting options ensure airtight performance.

Available in 1' x 4', 2'x2' and 2'x4' sizes with multi-lumen and multi-CCT configurations, the fixture is IC-rated, wet-location approved, and suitable for direct insulation contact.

LUMENS	3000L/4000L/5000L/6000L 5000L/6000L/7000L/8000L
CCT	30K/35K/40K/50K
CRI	85+, 90
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	1'X4', 2'X2', 2'X4'
MOUNTING	Recessed Mount
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10)
WORKING TEMP.	-25°C (-13°F) - 40°C (104°F)
RELATIVE HUMIDITY	10%-90%RH
EMERGENCY	EMG-LED-G4-120-347V-CP-16W-HV-FLEX EMG-LED-G4-120-347V-CP-25W-HV-FLEX
LIFETIME	L70: 120000 Hours, L85: 60000 Hours
PHOTOMETRIC TESTS	In accordance with IES LM79-08, LM80 and TM-30, TM-21



OPTICAL SYSTEM

The fixture utilizes precision micro-optics to ensure uniform LED distribution and consistent lens illumination. A frosted smooth lens enhances surface uniformity, while a textured finish minimizes visible scratches and mitigates impact damage.

For added protection, a clear outer lens—available in either acrylic or polycarbonate—is included as standard, with a clear polycarbonate 0.125 inch option providing excellent ingress resistance.

CONSTRUCTION

Built for durability, the fixture features a die-formed steel backplate designed for long-term performance. The sealed housing prevents dust, debris, and insect intrusion.

An expertly welded and ground aluminum frame delivers a smooth, seamless appearance for a clean, professional finish.

FINISH

For antimicrobial protection, specify the “AM” matte white finish option in place of the standard white. This coating inhibits bacterial growth, making it ideal for healthcare facilities, cleanrooms, and other hygiene-critical environments.

MOUNTING

Integral grid/EQ clips are included, featuring built-in suspension points and wire retention functionality. Fold-up hang points are incorporated into the clip design for simplified installation.

DIMMING & DRIVER INFORMATION

DIM10 – 0–10V dimming to 1% of initial lumens, compatible with 120V, 277V,

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120, 277.

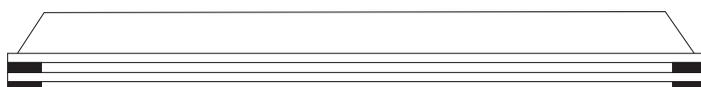
WARRANTY

5-year warranty for parts and components (labor not included).

LISTINGS

cULus listed for indoor applications, up to 25°C ambient
 IC-rated for direct contact with insulation
 UL wet-location rated for covered ceiling use
 IP65 rated (room side) without modification
 TM21, LM-79, and LM-80 tested
 Title 24 compliant (State of California high-efficacy)
 FCC Part 15 Class B compliant (standard dimming driver)
 NSF/ANSI Standard 2 rated – suitable for splash zones and non-food zones
 ISO 5 tested; compatible with ISO Class 3–9 environments when properly installed
 BAA compliant – Meets Buy American Act (FAR, DFARS, DOT)

High Abuse (HA)

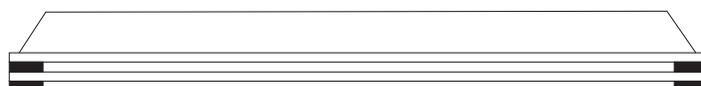


Clear Polycarbonate Bottom Lens

High Abuse (IK10 Lens)

0.050” thick gasket tape installed along the edge of the extruded frame
 Optional, Closed cell gasket provides stable support on the T-bar or drywall flange kit while maintaining an airtight barrier

Wet Location (WL)

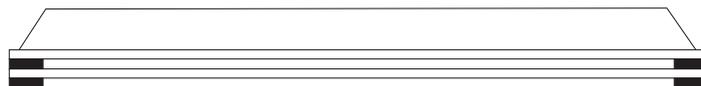


Clear Acrylic or Polycarbonate Bottom Lens

Wet Location

0.050” thick gasket tape installed along the edge of the extruded frame
 Include Closed cell gasket provides stable support on the T-bar or drywall flange kit while maintaining an airtight barrier

Medical Cleanroom (MC)



Clear Acrylic or Polycarbonate Bottom Lens

Medical Cleanroom (IK08 Rated)

0.050” thick gasket tape installed along the edge of the extruded frame
 Include Fully Closed cell gasket provides stable support on the T-bar or drywall flange kit while maintaining an airtight barrier

Example: 24-FPL-BL-SFZ-LED-3000L/4000L/5000L/6000L-DIM10-MVOLT-30K/35K/40K/50K-90-IP65

24	FPL-BL-SFZ-LED						
SIZE 24 - 2' X 4'	SERIES FPL-BL-SFZ-LED	LUMENS 3000L/4000L/5000L/6000L 5000L/6000L/7000L/8000L	DIMMING DIM10- 0-10V Dimming	VOLTAGE MVOLT	CCT 30K/35K/40K/50K	CRI 85 90	IP IP65 Standard
EMERGENCY EMG-LED-G4-120-347V-CP-16W-HV-FLEX EMG-LED-G4-120-347V-CP-25W-HV-FLEX		OPTIONS AM - Antimicrobial BAA - Buy American Act Compliant 35. FPL-BL-SF[-LED-SMK - 2'x4' Surface Mount Kit 35. FPL-BL-NF[-LED-FK - 2'x4' Flange Kit AC125 - Clear Acrylic 0.125" Thickness PC125 - Clear Polycarbonate 0.125" Thickness		LENS OPTIONS MC - Medical Cleanroom (Standard) WL - Wet Location HA - High Abuse			

consult factory for sensor and control.

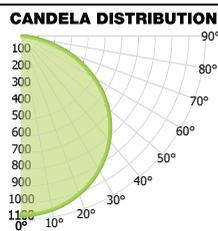
ISO Cleanroom Ratings

ISO Class	Maximum concentration limits (particles/m ³ of air) for particles equal to and larger than the size listed below					
	0.1 micron	0.2 micron	0.3 micron	0.5 micron	1 micron	5 micron
ISO 1		2				
ISO 2		24	10	4		
ISO 3	1	237	102	35	8	
ISO 4	10	2,370	1,020	352	83	
ISO 5	100	23,700	10,200	3,520	832	29
ISO 6	1,000	237,000	102,000	35,200	8,320	293
ISO 7	10,000		1,002,000	352,000	83,200	2,930
ISO 8	100,000			3,520,000	832,000	29,300
ISO 9	(1.0 x 10 ⁹)				8,320,000	293,000

24-FPL-BL-SFZ-LED-3000L-4000L-5000L-6000L-DIM10-MVOLT-30K-35K-40K-50K-85-IP65 (3000L)

TEST NO.: **EL06162515**

INPUT WATTS: **22.9** LUMENS: **3242** EFFICACY: **142** BEAM ANGLE: **117** SPACING CRITERIA: **1.27**



CANDELA TABLE	
0°	90°
0°	1073 1071
10°	1057 1052
20°	1007 1006
30°	927 929
40°	817 836
50°	676 695
60°	502 521
70°	306 316
80°	104 110
90°	4 4

LUMINANCE (cd/sq.m)	
0.00°	90.00°
0.00°	1444 1441
45.00°	1428 1464
55.00°	1392 1434
65.00°	1292 1344
75.00°	1042 1080
85.00°	543 559

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	108
10° - 20°	292
20° - 30°	449
30° - 40°	554
40° - 50°	588
50° - 60°	539
60° - 70°	409
70° - 80°	221
80° - 90°	53

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	400	12%
0° - 30°	849	26%
0° - 40°	1403	43%
0° - 60°	2530	78%
0° - 80°	3160	97%
0° - 90°	3213	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	29.8 fc	19.6 ft	20.4 ft
8.0 ft	16.8 fc	26.2 ft	27.2 ft
10.0 ft	10.7 fc	32.7 ft	34.0 ft
12.0 ft	7.5 fc	39.2 ft	40.8 ft
14.0 ft	5.5 fc	45.8 ft	47.6 ft
16.0 ft	4.2 fc	52.3 ft	54.4 ft
18.0 ft	3.3 fc	58.8 ft	61.2 ft
20.0 ft	2.7 fc	65.4 ft	68.0 ft

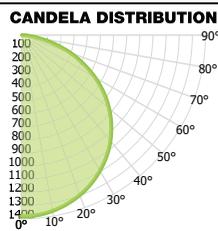
INDOOR COEFFICIENTS OF UTILIZATION

pf	20%																0%			
	80%			70%			50%			30%			10%							
pc	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
pw	0	119	119	119	119	116	116	116	111	111	111	106	106	106	101	101	101	99	0%	
	1	109	104	99	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83	0%
	2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69	0%
	3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58	0%
	4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49	0%
	5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42	0%
	6	70	56	47	41	68	55	46	40	53	46	40	51	45	39	50	44	39	37	0%
	7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	45	39	35	33	0%
	8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29	0%
	9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26	0%
	10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	36	30	25	23	0%

24-FPL-BL-SFZ-LED-3000L-4000L-5000L-6000L-DIM10-MVOLT-30K-35K-40K-50K-85-IP65 (4000L)

TEST NO.: **EL06162515**

INPUT WATTS: **30.2** LUMENS: **4163** EFFICACY: **138** BEAM ANGLE: **117** SPACING CRITERIA: **1.27 x 1.27**



CANDELA TABLE	
0°	90°
0°	1383 1379
10°	1361 1355
20°	1298 1295
30°	1194 1195
40°	1053 1058
50°	869 894
60°	646 669
70°	396 405
80°	134 141
90°	5 5

LUMINANCE (cd/sq.m)	
0.00°	90.00°
0.00°	1860 1855
45.00°	1838 1852
55.00°	1790 1846
65.00°	1658 1720
75.00°	1340 1388
85.00°	679 722

LUMENS PER ZONE	
ZONE	LUMENS
0° - 10°	139
10° - 20°	376
20° - 30°	578
30° - 40°	709
40° - 50°	752
50° - 60°	693
60° - 70°	526
70° - 80°	285
80° - 90°	68

ZONAL LUMEN SUMMARY		
ZONE	UMENS	% LUMINAIRE
0° - 20°	515	12%
0° - 30°	1093	26%
0° - 40°	1802	43%
0° - 60°	3248	78%
0° - 80°	4059	97%
0° - 90°	4126	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	38.4 fc	19.6 ft	20.4 ft
8.0 ft	21.6 fc	26.1 ft	27.2 ft
10.0 ft	13.8 fc	32.6 ft	33.9 ft
12.0 ft	9.6 fc	39.2 ft	40.7 ft
14.0 ft	7.1 fc	45.7 ft	47.5 ft
16.0 ft	5.4 fc	52.2 ft	54.3 ft
18.0 ft	4.3 fc	58.8 ft	61.1 ft
20.0 ft	3.5 fc	65.3 ft	67.9 ft

INDOOR COEFFICIENTS OF UTILIZATION

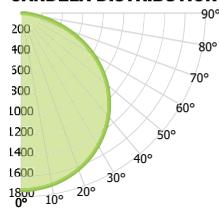
pf	20%																0%			
	80%			70%			50%			30%			10%							
pc	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%		
pw	0	119	119	119	119	116	116	116	111	111	111	106	106	106	101	101	101	99	0%	
	1	109	104	99	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83	0%
	2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69	0%
	3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58	0%
	4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49	0%
	5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	44	42	0%
	6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37	0%
	7	64	51	42	36	63	50	41	36	48	41	35	47	40	35	45	39	35	33	0%
	8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29	0%
	9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26	0%
	10	52	39	31	26	51	39	31	26	37	30	26	36	30	25	36	30	25	23	0%

24-FPL-BL-SFZ-LED-3000L-4000L-5000L-6000L-DIM10-MVOLT-30K-35K-40K-50K-85-IP65 (5000L)

TEST NO.: **EL06162515**

INPUT WATTS: **38.9** LUMENS: **5218** EFFICACY: **134** BEAM ANGLE: **117** SPACING CRITERIA: **1.27 x 1.27**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1737	1731
1°	1708	1701
2°	1629	1625
3°	1498	1500
4°	1321	1326
5°	1092	1103
6°	811	841
7°	487	510
8°	168	177
90°	6	6

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	2337	2330
45.00°	2305	2324
55.00°	2248	2275
65.00°	2083	2164
75.00°	1683	1747
85.00°	848	905

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	174
10° - 20°	472
20° - 30°	725
30° - 40°	890
40° - 50°	941
50° - 60°	865
60° - 70°	661
70° - 80°	357
80° - 90°	85

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	647	12%
0° - 30°	1372	26%
0° - 40°	2262	43%
0° - 60°	4068	78%
0° - 80°	5086	97%
0° - 90°	5171	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	48.3 fc	19.6 ft	20.3 ft
8.0 ft	27.1 fc	26.1 ft	27.1 ft
10.0 ft	17.4 fc	32.6 ft	33.8 ft
12.0 ft	12.1 fc	39.1 ft	40.6 ft
14.0 ft	8.9 fc	45.6 ft	47.4 ft
16.0 ft	6.8 fc	52.2 ft	54.1 ft
18.0 ft	5.4 fc	58.7 ft	60.9 ft
20.0 ft	4.3 fc	65.2 ft	67.7 ft

INDOOR COEFFICIENTS OF UTILIZATION

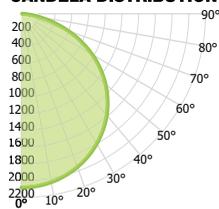
pf	pc	80%																70%																20%																0%
		80%				70%				50%				30%				10%				0%																												
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%																							
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99	99	99	99	99	99	99	99	99	99	0%																						
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2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69	69	69	69	69	69	69	69	69	69	0%																						
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58	58	58	58	58	58	58	58	58	58	0%																						
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49	49	49	49	49	49	49	49	49	49	0%																						
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42	42	42	42	42	42	42	42	42	0%																						
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37	37	37	37	37	37	37	37	37	37	0%																						
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33	33	33	33	33	33	33	33	33	33	0%																						
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29	29	29	29	29	29	29	29	29	29	0%																						
9	56	42	34	29	54	42	34	28	41	33	28	39	33	28	38	32	28	26	26	26	26	26	26	26	26	26	26	0%																						
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24	24	24	24	24	24	24	24	24	24	0%																						

24-FPL-BL-SFZ-LED-3000L-4000L-5000L-6000L-DIM10-MVOLT-30K-35K-40K-50K-85-IP65 (6000L)

TEST NO.: **EL06162515**

INPUT WATTS: **47.7** LUMENS: **6264** EFFICACY: **131** BEAM ANGLE: **116** SPACING CRITERIA: **1.27**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	2081	2099
1°	2048	2066
2°	1953	1972
3°	1797	1820
4°	1585	1609
5°	1310	1338
6°	975	1002
7°	586	620
8°	203	215
90°	8	7

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	5600	5648
45.00°	5536	5642
55.00°	5394	5530
65.00°	5000	5264
75.00°	4010	4247
85.00°	2088	2188

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	209
10° - 20°	568
20° - 30°	871
30° - 40°	1069
40° - 50°	1131
50° - 60°	1037
60° - 70°	792
70° - 80°	429
80° - 90°	103

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	777	12%
0° - 30°	1648	26%
0° - 40°	2717	43%
0° - 60°	4885	78%
0° - 80°	6106	97%
0° - 90°	6209	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	57.8 fc	19.2 ft	20.3 ft
8.0 ft	32.5 fc	25.6 ft	27.0 ft
10.0 ft	20.8 fc	32.0 ft	33.8 ft
12.0 ft	14.5 fc	38.4 ft	40.6 ft
14.0 ft	10.6 fc	44.8 ft	47.3 ft
16.0 ft	8.1 fc	51.2 ft	54.1 ft
18.0 ft	6.4 fc	57.6 ft	60.8 ft
20.0 ft	5.2 fc	64.0 ft	67.6 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	80%																70%																20%																0%
		80%				70%				50%				30%				10%				0%																												
pw	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%																							
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99	99	99	99	99	99	99	99	99	99	0%																						
1	109	104	99	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83	83	83	83	83	83	83	83	83	83	0%																						
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69	69	69	69	69	69	69	69	69	69	0%																						
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58	58	58	58	58	58	58	58	58	58	0%																						
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49	49	49	49	49	49	49	49	49	49	0%																						
5	75	62	53	47	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42	42	42	42	42	42	42	42	42	0%																						
6	70	56	47	41	68	55	47	40	53	46	40	51	45	39	50	44	39	37	37	37	37	37	37	37	37	37	37	0%																						
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33	33	33	33	33	33	33	33	33	33	0%																						
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	35	31	29	29	29	29	29	29	29	29	29	29	0%																						
9	56	42	34	29	55	42	34	28	41	33	28	39	33	28	38	32	28	26	26	26	26	26	26	26	26	26	26	0%																						
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24	24	24	24	24	24	24	24	24	24	0%																						