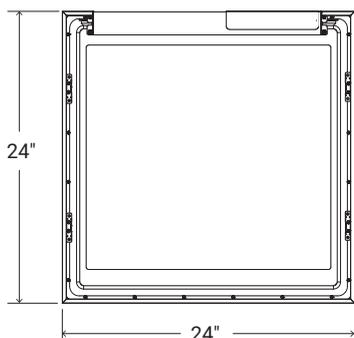
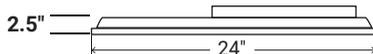
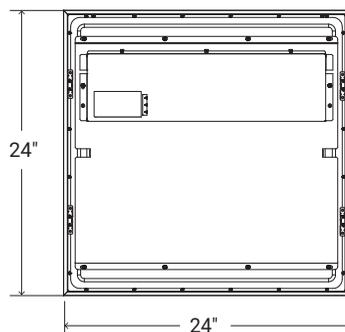


DIMENSIONS

Standard Driver



Alternative Driver with control



2000L/3000L/4000L/5000L

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	5007	38W
4000	4129	30W
3000	3107	22W
2000	2299	16W

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

3000L/4000L/5000L/6000L

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	5989	46W
5000	5007	38W
4000	4129	30W
3000	3107	22W

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 IP66, NSF/ANSI Standard 2, and ISO Class 3 (Class 1) 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	2000L/3000L/4000L/5000L 3000L/4000L/5000L/6000L
CCT	30K/35K/40K/50K
CRI	85+
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.

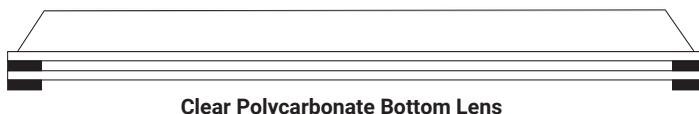
WARRANTY

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
 IP5X 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)

FPL-BL-SFZ-LED-HA
High Abuse

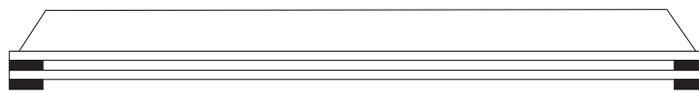


Clear Polycarbonate Bottom Lens

High Abuse

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

FPL-BL-SFZ-LED-WL
Wet Location

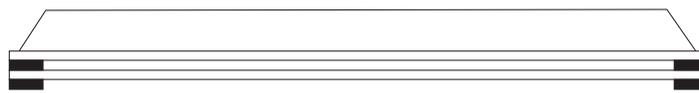


Clear Acrylic or Polycarbonate Bottom Lens

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

FPL-BL-SFZ-LED-MC
Medical Cleanroom



Clear Acrylic or Polycarbonate Bottom Lens

Medical Cleanroom

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: 22-FPL-BL-SFZ-LED-MC-LED-2000L/3000L/4000L/5000L-DIM10-MVOLT-30K/35K/40K/50K-85-IP65

22	FPL-BL-SFZ-LED						
SIZE	SERIES	LUMENS	DIMMING	VOLTAGE	CCT	CRI	IP
22 - 2'X 2'	FPL-BL-SFZ-LED	2000L/3000L/4000L/5000L 3000L/4000L/5000L/6000L	DIM10 - 0-10V Dimming	MVOLT	30K/35K/40K/50K	85	IP65 Standard

EMERGENCY	OPTIONS	LENS OPTIONS
EMG-LED-G4-120-347V-CP-16W-HV-FLEX EMG-LED-G4-120-347V-CP-25W-HV-FLEX	AM - Antimicrobial BAA - Buy American Act Compliant 22-FPL-BL-SFZ-LED-SMK - 2'x2' surface Mount Kit AC125 - Clear Acrylic 0.125" thickness PC125 - Clear Polycarbonate 0.125" thickness	MC - Medical Cleanroom (Standard) WL - Wet Location HA - High Abuse

consult factory for sensor and control.

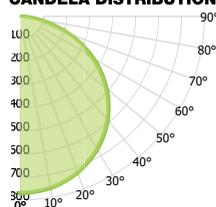
ISO Cleanroom Ratings

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 × 10 ⁹)				8,320,000	293,000

22-FPL-BL-SFZ-LED-LED-2000L/3000L/4000L/5000L-DIM10-MVOLT-30K/35K/40K/50K-85-IP65(2000L) TEST NO.: **EL06172519**

INPUT WATTS: **16.3** LUMENS: **2299** EFFICACY: **141** BEAM ANGLE: **116** SPACING CRITERIA: **1.29**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	769	768
10°	759	755
20°	725	720
30°	669	664
40°	590	585
50°	489	483
60°	367	360
70°	226	219
80°	84	79
90°	4	3

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	2070	2066
45.00°	2065	2042
55.00°	2022	1992
65.00°	1900	1853
75.00°	1587	1516
85.00°	980	834

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	77
10° - 20°	209
20° - 30°	321
30° - 40°	393
40° - 50°	414
50° - 60°	379
60° - 70°	287
70° - 80°	156
80° - 90°	38

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	287	12%
0° - 30°	608	26%
0° - 40°	1001	44%
0° - 60°	1794	78%
0° - 80°	2237	97%
0° - 90°	2275	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	21.4 fc	19.4 ft	19.5 ft
8.0 ft	12.0 fc	25.8 ft	26.0 ft
10.0 ft	7.7 fc	32.3 ft	32.5 ft
12.0 ft	5.3 fc	38.7 ft	39.0 ft
14.0 ft	3.9 fc	45.2 ft	45.5 ft
16.0 ft	3.0 fc	51.7 ft	52.0 ft
18.0 ft	2.4 fc	58.1 ft	58.5 ft
20.0 ft	1.9 fc	64.6 ft	65.0 ft

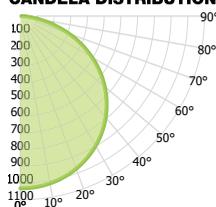
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	20%																0%	
		80%				70%				50%				30%					10%
		70%	50%	30%	10%	70%	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	101	99
1	109	104	99	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83	83
2	99	90	83	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69	69
3	90	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58	58
4	82	70	61	54	80	69	60	54	66	59	53	63	57	52	61	56	51	49	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	42	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24	24

22-FPL-BL-SFZ-LED-LED-2000L/3000L/4000L/5000L-DIM10-MVOLT-30K/35K/40K/50K-85-IP65(3000L) TEST NO.: **EL06172519**

INPUT WATTS: **22.5** LUMENS: **3107** EFFICACY: **138** BEAM ANGLE: **117** SPACING CRITERIA: **1.29 x 1.29**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1032	1028
10°	1017	1012
20°	973	965
30°	897	904
40°	792	796
50°	657	658
60°	493	490
70°	308	298
80°	114	107
90°	5	4

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	2776	2767
45.00°	2769	2781
55.00°	2716	2712
65.00°	2568	2525
75.00°	2164	2064
85.00°	1319	1130

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	104
10° - 20°	281
20° - 30°	431
30° - 40°	532
40° - 50°	561
50° - 60°	512
60° - 70°	390
70° - 80°	212
80° - 90°	52

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	385	12%
0° - 30°	816	26%
0° - 40°	1348	43%
0° - 60°	2420	78%
0° - 80°	3023	97%
0° - 90°	3075	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	28.7 fc	19.6 ft	19.7 ft
8.0 ft	16.1 fc	26.1 ft	26.3 ft
10.0 ft	10.3 fc	32.6 ft	32.8 ft
12.0 ft	7.2 fc	39.2 ft	39.4 ft
14.0 ft	5.3 fc	45.7 ft	45.9 ft
16.0 ft	4.0 fc	52.2 ft	52.5 ft
18.0 ft	3.2 fc	58.7 ft	59.1 ft
20.0 ft	2.6 fc	65.3 ft	65.6 ft

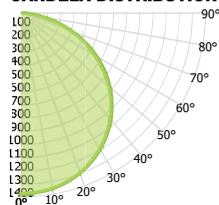
INDOOR COEFFICIENTS OF UTILIZATION

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

22-FPL-BL-SFZ-LED-LED-2000L/3000L/4000L/5000L-DIM10-MVOLT-30K/35K/40K/50K-85-IP65(4000L) TEST NO.: **EL06172519**

INPUT WATTS: **30.8** LUMENS: **4129** EFFICACY: **134** BEAM ANGLE: **117** SPACING CRITERIA: **1.29**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1376	1375
1°	1357	1352
10°	1296	1289
20°	1196	1187
30°	1056	1046
40°	877	880
50°	658	656
60°	405	399
70°	153	143
80°	7	5
90°		

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	3702	3701
45.00°	3698	3652
55.00°	3621	3623
65.00°	3413	3378
75.00°	2891	2756
85.00°	1731	1513

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	138
10° - 20°	375
20° - 30°	574
30° - 40°	703
40° - 50°	743
50° - 60°	683
60° - 70°	519
70° - 80°	283
80° - 90°	69

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	513	12%
0° - 30°	1087	26%
0° - 40°	1790	43%
0° - 60°	3216	78%
0° - 80°	4018	97%
0° - 90°	4087	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	38.2 fc	19.6 ft	19.8 ft
8.0 ft	21.5 fc	26.1 ft	26.4 ft
10.0 ft	13.8 fc	32.7 ft	32.9 ft
12.0 ft	9.6 fc	39.2 ft	39.5 ft
14.0 ft	7.0 fc	45.7 ft	46.1 ft
16.0 ft	5.4 fc	52.2 ft	52.7 ft
18.0 ft	4.2 fc	58.8 ft	59.3 ft
20.0 ft	3.4 fc	65.3 ft	65.9 ft

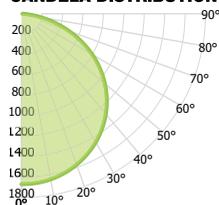
INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	80%																70%				20%				10%	0%
		pw	70%	50%	30%	10%	70%	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	0%								
1	109	104	99	96	106	101	97	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	42	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	38	30	26	37	30	25	36	30	25	24	0%								

22-FPL-BL-SFZ-LED-LED-2000L/3000L/4000L/5000L-DIM10-MVOLT-30K/35K/40K/50K-85-IP65(5000L) TEST NO.: **EL06172519**

INPUT WATTS: **38.3** LUMENS: **5007** EFFICACY: **131** BEAM ANGLE: **117** SPACING CRITERIA: **1.29**

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	1670	1672
10°	1647	1645
20°	1574	1569
30°	1453	1445
40°	1283	1272
50°	1064	1051
60°	799	798
70°	494	485
80°	186	174
90°	9	6

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	4493	4498
45.00°	4487	4444
55.00°	4398	4351
65.00°	4141	4109
75.00°	3514	3361
85.00°	2108	1845

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	168
10° - 20°	455
20° - 30°	697
30° - 40°	854
40° - 50°	900
50° - 60°	825
60° - 70°	629
70° - 80°	343
80° - 90°	84

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	623	12%
0° - 30°	1320	26%
0° - 40°	2174	43%
0° - 60°	3899	78%
0° - 80°	4872	97%
0° - 90°	4956	99%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	46.4 fc	19.6 ft	19.8 ft
8.0 ft	26.1 fc	26.1 ft	26.4 ft
10.0 ft	16.7 fc	32.6 ft	33.0 ft
12.0 ft	11.6 fc	39.1 ft	39.6 ft
14.0 ft	8.5 fc	45.7 ft	46.1 ft
16.0 ft	6.5 fc	52.2 ft	52.7 ft
18.0 ft	5.2 fc	58.7 ft	59.3 ft
20.0 ft	4.2 fc	65.2 ft	65.9 ft

INDOOR COEFFICIENTS OF UTILIZATION

pf	pc	80%																70%				20%				10%	0%
		pw	70%	50%	30%	10%	70%	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	0%								
1	109	104	99	96	106	101	97	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	45	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	42	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	55	42	34	28	41	33	28	39	33	28	38	32	28	26	0%								
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24	0%								