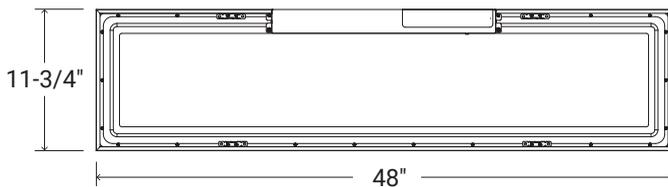


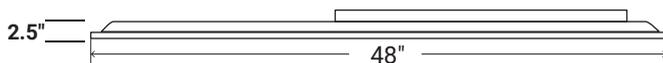
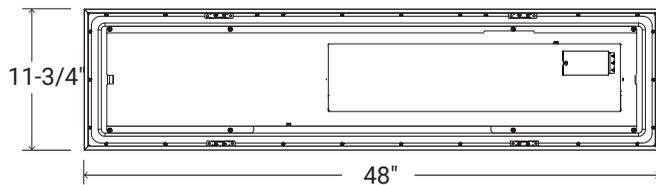


**DIMENSIONS**

*Standard Driver*



*Alternative Driver with control*



**2000L/3000L/4000L/5000L**

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	4959	38W
4000	4039	30W
3000	3023	22W
2000	2238	16W

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

**3000L/4000L/5000L/6000L**

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	5989	46W
5000	4959	38W
4000	4039	30W
3000	3023	22W

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

**FEATURES**

The FPL-BL-NSF-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-NSF-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.

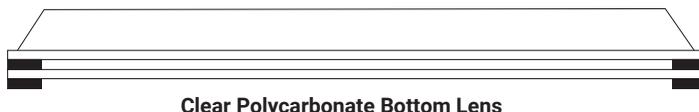
**WARRANTY**

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)

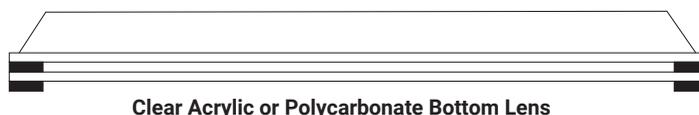
**FPL-BL-NSF-LED-HA**  
High Abuse



**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

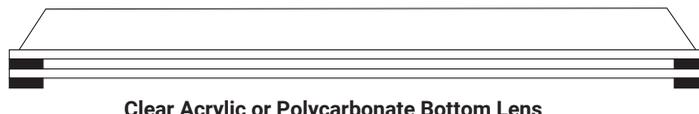
**FPL-BL-NSF-LED-WL**  
Wet Location



**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-NSF-LED-MC**  
Medical Cleanroom



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

<b>14</b>	<b>FPL-BL-NSF-LED</b>						
<b>SIZE</b>	<b>SERIES</b>	<b>LUMENS</b>	<b>DIMMING</b>	<b>VOLTAGE</b>	<b>CCT</b>	<b>CRI</b>	<b>IP</b>
14 - 1' X 4'	FPL-BL-NSF-LED	2000L/3000L/4000L/5000L 3000L/4000L/5000L/6000L	DIM10 - 0-10V Dimming	MVOLT	30K/35K/40K/50K	85	IP65 Standard

<b>EMERGENCY</b>	<b>OPTIONS</b>	<b>LENS OPTIONS</b>
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 14-FPL-BL-NSF-LED-SMK - 1'x4' surface Mount Kit AC125 - Clear Acrylic 0.125" thickness PC125 - Clear Polycarbonate 0.125" thickness	WL HA

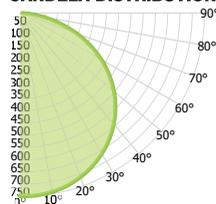
consult factory for sensor and control.

**ISO Cleanroom Ratings**

ISO Class	Maximum concentration limits (particles/m <sup>3</sup> 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 <sup>9</sup> )				8,320,000	293,000

**14-FPL-BL-NSF-LED-2000L-3000L-4000L-5000L-DIM10-MVOLT-30K-35K-40K-50K-85-IP65(2000L)** TEST NO.: **EL06122511**  
 INPUT WATTS: **16.2** LUMENS: **2238** EFFICACY: **138** BEAM ANGLE: **117** SPACING CRITERIA: **1.31**

**CANDELA DISTRIBUTION**



**CANDELA TABLE**

	0°	90°
0°	749	745
10°	742	735
20°	713	706
30°	663	655
40°	591	582
50°	497	487
60°	381	370
70°	243	231
80°	97	88
90°	7	4

**LUMINANCE (cd/sq.m)**

	0.00°	90.00°
0.00°	2016	2004
45.00°	2082	2046
55.00°	2072	2023
65.00°	2000	1924
75.00°	1755	1634
85.00°	1225	1016

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	75
10° - 20°	204
20° - 30°	312
30° - 40°	383
40° - 50°	405
50° - 60°	370
60° - 70°	280
70° - 80°	150
80° - 90°	36

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	279	12%
0° - 30°	591	26%
0° - 40°	974	44%
0° - 60°	1749	78%
0° - 80°	2179	97%
0° - 90°	2215	99%

**CONE OF LIGHT**

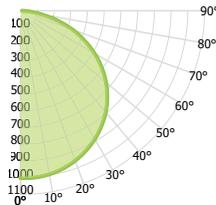
MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	20.8 fc	19.6 ft	19.9 ft
8.0 ft	11.7 fc	26.2 ft	26.5 ft
10.0 ft	7.5 fc	32.7 ft	33.1 ft
12.0 ft	5.2 fc	39.3 ft	39.7 ft
14.0 ft	3.8 fc	45.8 ft	46.4 ft
16.0 ft	2.9 fc	52.4 ft	53.0 ft
18.0 ft	2.3 fc	58.9 ft	59.6 ft
20.0 ft	1.9 fc	65.5 ft	66.2 ft

**INDOOR COEFFICIENTS OF UTILIZATION**

pf	pc	20%																0%
		80%				70%				50%				30%				
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	109	104	100	96	106	101	98	94	97	94	91	93	90	88	89	87	85	83
2	99	90	84	78	96	88	82	77	85	79	75	81	77	73	78	74	71	69
3	90	79	71	64	87	78	70	64	74	68	63	71	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	47	73	61	53	46	59	52	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	51	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	33	28	40	33	28	38	32	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24

**14-FPL-BL-NSF-LED-2000L-3000L-4000L-5000L-DIM10-MVOLT-30K-35K-40K-50K-85-IP65(3000L)** TEST NO.: **EL06122511**  
 INPUT WATTS: **22.2** LUMENS: **3023** EFFICACY: **136** BEAM ANGLE: **117** SPACING CRITERIA: **1.31 x 1.31**

**CANDELA DISTRIBUTION**



**CANDELA TABLE**

	0°	90°
0°	1002	997
10°	994	986
20°	956	944
30°	888	891
40°	793	792
50°	667	663
60°	511	504
70°	331	314
80°	132	121
90°	9	6

**LUMINANCE (cd/sq.m)**

	0.00°	90.00°
0.00°	2697	2683
45.00°	2791	2784
55.00°	2780	2758
65.00°	2685	2621
75.00°	2388	2230
85.00°	1637	1404

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	101
10° - 20°	273
20° - 30°	420
30° - 40°	518
40° - 50°	547
50° - 60°	501
60° - 70°	380
70° - 80°	204
80° - 90°	49

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	373	12%
0° - 30°	793	26%
0° - 40°	1311	43%
0° - 60°	2359	78%
0° - 80°	2942	97%
0° - 90°	2991	99%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	27.8 fc	19.8 ft	20.1 ft
8.0 ft	15.7 fc	26.4 ft	26.8 ft
10.0 ft	10.0 fc	33.1 ft	33.5 ft
12.0 ft	7.0 fc	39.7 ft	40.2 ft
14.0 ft	5.1 fc	46.3 ft	46.9 ft
16.0 ft	3.9 fc	52.9 ft	53.6 ft
18.0 ft	3.1 fc	59.5 ft	60.3 ft
20.0 ft	2.5 fc	66.1 ft	67.0 ft

**INDOOR COEFFICIENTS OF UTILIZATION**

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

**14-FPL-BL-NSF-LED-2000L-3000L-4000L-5000L-DIM10-MVOLT-30K-35K-40K-50K-85-IP65(4000L)**

TEST NO.: **EL06122511**

INPUT WATTS: **30.4**

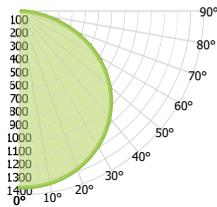
LUMENS: **4039**

EFFICACY: **133**

BEAM ANGLE: **118**

SPACING CRITERIA: **1.31**

**CANDELA DISTRIBUTION**



**CANDELA TABLE**

	0°	90°
0°	1344	1340
10°	1332	1323
20°	1281	1270
30°	1190	1178
40°	1062	1047
50°	894	892
60°	685	677
70°	438	423
80°	177	162
90°	12	8

**LUMINANCE (cd/sq.m)**

	0.00°	90.00°
0.00°	3618	3605
45.00°	3742	3679
55.00°	3728	3705
65.00°	3602	3526
75.00°	3201	3006
85.00°	2208	1892

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	135
10° - 20°	366
20° - 30°	561
30° - 40°	688
40° - 50°	729
50° - 60°	671
60° - 70°	508
70° - 80°	274
80° - 90°	66

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	500	12%
0° - 30°	1061	26%
0° - 40°	1750	43%
0° - 60°	3150	78%
0° - 80°	3931	97%
0° - 90°	3997	99%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	37.3 fc	19.9 ft	20.2 ft
8.0 ft	21.0 fc	26.5 ft	26.9 ft
10.0 ft	13.4 fc	33.1 ft	33.6 ft
12.0 ft	9.3 fc	39.7 ft	40.3 ft
14.0 ft	6.9 fc	46.3 ft	47.0 ft
16.0 ft	5.3 fc	52.9 ft	53.8 ft
18.0 ft	4.1 fc	59.6 ft	60.5 ft
20.0 ft	3.4 fc	66.2 ft	67.2 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
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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	36	30	25	36	30	25	23	23

**14-FPL-BL-NSF-LED-2000L-3000L-4000L-5000L-DIM10-MVOLT-30K-35K-40K-50K-85-IP65(5000L)**

TEST NO.: **EL06122511**

INPUT WATTS: **38.1**

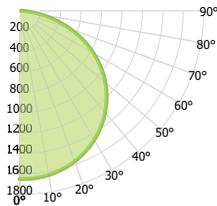
LUMENS: **4959**

EFFICACY: **130**

BEAM ANGLE: **117**

SPACING CRITERIA: **1.31**

**CANDELA DISTRIBUTION**



**CANDELA TABLE**

	0°	90°
0°	1649	1663
10°	1634	1642
20°	1571	1573
30°	1460	1457
40°	1300	1293
50°	1093	1080
60°	836	832
70°	533	515
80°	213	192
90°	14	8

**LUMINANCE (cd/sq.m)**

	0.00°	90.00°
0.00°	4437	4476
45.00°	4575	4540
55.00°	4554	4485
65.00°	4390	4310
75.00°	3872	3618
85.00°	2611	2158

**LUMENS PER ZONE**

ZONE	LUMENS
0° - 10°	166
10° - 20°	450
20° - 30°	690
30° - 40°	846
40° - 50°	894
50° - 60°	821
60° - 70°	624
70° - 80°	336
80° - 90°	80

**ZONAL LUMEN SUMMARY**

ZONE	UMENS	% LUMINAIRE
0° - 20°	615	12%
0° - 30°	1305	26%
0° - 40°	2151	43%
0° - 60°	3867	78%
0° - 80°	4827	97%
0° - 90°	4907	99%

**CONE OF LIGHT**

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0° -180°	BEAM DIA. 90° -270°
6.0 ft	45.8 fc	19.7 ft	20.2 ft
8.0 ft	25.8 fc	26.2 ft	26.9 ft
10.0 ft	16.5 fc	32.8 ft	33.7 ft
12.0 ft	11.5 fc	39.3 ft	40.4 ft
14.0 ft	8.4 fc	45.9 ft	47.2 ft
16.0 ft	6.4 fc	52.4 ft	53.9 ft
18.0 ft	5.1 fc	59.0 ft	60.6 ft
20.0 ft	4.1 fc	65.6 ft	67.4 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	45	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	55	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	23	23