

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	5694	50W
5000	4910	41W
4000	4536	37.6W
3000	3638	28.6W
2000	2597	20W

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

FEATURES

The clean design of the FLP1-BL provides a modern alternative to traditional fluorescent troffers. Available in 1x4, 2x2, and 2x4. Backlit design delivers unmatched uniform light distribution. Easily adjust brightness level (multi-lumen) and color options (multi-CCT) in the field with multi-lumen and multi-CCT selectors. Perfect for offices, schools, healthcare, hospital, retail, among other applications.

LUMENS	2000/ 3000/ 4000 4000/ 5000/ 6000
CCT	35K/ 40K/ 50K
CRI	85+
UGR	<19
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x4', 2'x2', 1'x4'
MOUNTING	Recessed, Suspended, Surface Mount
DIMMING & CONTROL	0-10V Flicker Free 10% Dimming Standard (DIM10)
EMERGENCY	10W - Up to 1000L output (Bodine BSL310) 20W - Up to 2000L output (Bodine BSL20)
LIFETIME	L70 at 60,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



MAINTENANCE

The driver is removable and upgradable even after installation. Luminaire can be regularly and safely wiped down for peak performance.

OPTICAL SYSTEM

Backlit design provides exceptional light distribution. Illumination is spread across the entire surface of the panel, emitting soft, even light. A 110-degree beam angle ensures clear, shadow-free light.

CONSTRUCTION

20-gauge cold rolled steel body, post-painted for durability. White finish standard. All corners are rounded for safe handling. Multiple wiring entrances allow for easy access.

MOUNTING

Easy to install. Mounting hardware included. Accommodates lay-in ceilings, Slot T, and T-bar suspension systems for 5/8" and 3/8" ceiling widths. Four corner tie points and built-in earthquake clips come standard. Options for flange kits, surface mounted kits, and more.

OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems.

DRIVER ELECTRICAL INFORMATION

Powered by high-quality constant-current power LED drivers which are rated for 50 to 60Hz at 120/277V input. Available in 347V., produce less than 20% THD, and have a power factor of .90 to 1.00.

DIMMING & DRIVER INFORMATION

DIM10 - Flicker Free 10% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277V.

WARRANTY

Five-year warranty for parts and components. (Labor not included)

LISTINGS

c-UL-us - Listed for Feed Through Wiring.
Listed for DLC, California Title 24 compliant.
Damp location rated.

Example: **22-FPL-BL-LED-2000/3000/4000L-DIM10-MVOLT-35K/40K/50K-85**

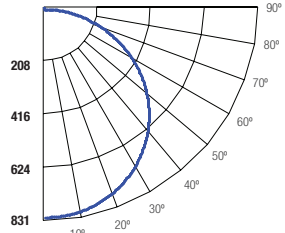
22	FPL-BL	LED							
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
22 - 2' X 2'	FPL-BL - LED Flat Panel Backlit	LED	2000/3000/4000L 4000/5000/6000L	DIM10 - 0-10V Dimming	MVOLT	35K/40K50K	85	0-EMG-LED-10W 0-EMG-LED-20W	22FK - 2'x2' Flange Kit 22-FPL1-LED-SMK - 2'x2' Surface Mount Kit USA - Made in America Compliance

22-FPL-BL-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(2000L)

TEST NO.: EL05212049

INPUT WATTS: **19.5** LUMENS: **2597** CRI: **85** EFFICACY: **133** CCT: **40k** SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	305.14	11.70	11.70
0-30	652.69	25.10	25.10
0-40	1079.38	41.60	41.60
0-60	1954.11	75.20	75.20
0-80	2497.12	96.20	96.20
0-90	2571.01	99.00	99.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	2226	2269	2283
55	2200	2262	2282
65	2136	2227	2256
75	2018	2162	2200
85	1945	2331	2444

Lumens Per Zone

Zone	Lumens
0-10	78.62
10-20	226.53
20-30	347.55
30-40	426.69
40-50	453.11
50-60	421.62
60-70	334.88
70-80	208.13
80-90	73.89

Candela Tabulation

Zone	Lumens	0	5	15	25	35	45	55	65	75	85	90	
0-10	78.62	0	829.942	5	827.490	15	802.200	25	753.010	35	680.450	45	585.350
10-20	226.53	5	827.490	15	802.200	25	753.010	35	680.450	45	585.350	55	469.270
20-30	347.55	15	802.200	25	753.010	35	680.450	45	585.350	55	469.270	65	335.710
30-40	426.69	25	753.010	35	680.450	45	585.350	55	469.270	65	335.710	75	194.290
40-50	453.11	35	680.450	45	585.350	55	469.270	65	335.710	75	194.290	85	63.040
50-60	421.62	45	585.350	55	469.270	65	335.710	75	194.290	85	63.040	90	10.750
60-70	334.88	55	469.270	65	335.710	75	194.290	85	63.040	90	10.750		
70-80	208.13	65	335.710	75	194.290	85	63.040	90	10.750				
80-90	73.89	75	194.290	85	63.040	90	10.750						

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%	10%	30%	10%	0%			
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	101	101	101	99			
1	108	103	98	94	105	100	96	92	96	92	89	89	92	89	86	88	86	84	81	81	81	81			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67	67	67	67	67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	67	62	58	56	56	56	56	56			
4	81	69	60	53	79	67	59	52	65	57	51	62	56	50	60	54	50	47	47	47	47	47			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41	41	41	41	41			
6	69	55	46	39	67	54	45	39	52	44	38	50	43	38	48	42	38	35	35	35	35	35			
7	64	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31	31	31	31	31			
8	59	45	37	31	57	45	36	30	43	36	30	42	35	30	40	34	30	28	28	28	28	28			
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25	25	25	25	25			
10	52	38	30	25	50	38	30	25	37	29	25	36	29	24	35	29	24	22	22	22	22	22			

Cone of Light

Beam Dia.	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread
2	287	5.7	5.7
4	76.2	11.1	11.1
6	33.2	16.9	16.8
8	18.5	22.6	22.6
10	12.0	28.0	27.9
12	8.30	33.7	33.7

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

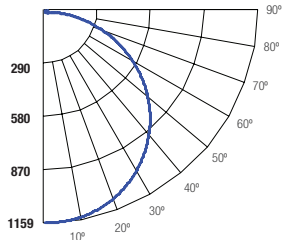
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

22-FPL-BL-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(3000L)

TEST NO.: EL05212050

INPUT WATTS: **28.8** LUMENS: **3638** CRI: **85** EFFICACY: **126** CCT: **40K** SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	424.85	11.70	11.70
0-30	908.79	25.00	25.00
0-40	1503.04	41.30	41.30
0-60	2730.86	75.10	75.10
0-80	3496.32	96.10	96.10
0-90	3600.78	99.00	99.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	3096	3153	3181
55	3061	3143	3184
65	2971	3094	3150
75	2838	3033	3117
85	2711	3244	3469

Lumens Per Zone

Zone	Lumens
0-10	109.45
10-20	315.39
20-30	483.94
30-40	594.25
40-50	635.45
50-60	592.37
60-70	470.92
70-80	294.54
80-90	104.46

Candela Tabulation

Zone	Lumens	0	5	15	25	35	45	55	65	75	85	90	
0-10	109.45	0	1155.504	5	1152.370	15	1116.480	25	1048.560	35	947.260	45	814.280
10-20	315.39	5	1152.370	15	1116.480	25	1048.560	35	947.260	45	814.280	55	653.000
20-30	483.94	15	1116.480	25	1048.560	35	947.260	45	814.280	55	653.000	65	467.050
30-40	594.25	25	1048.560	35	947.260	45	814.280	55	653.000	65	467.050	75	273.200
40-50	635.45	35	947.260	45	814.280	55	653.000	65	467.050	75	273.200	85	87.900
50-60	592.37	45	814.280	55	653.000	65	467.050	75	273.200	85	87.900	90	14.460
60-70	470.92	55	653.000	65	467.050	75	273.200	85	87.900	90	14.460		
70-80	294.54	65	467.050	75	273.200	85	87.900	90	14.460				
80-90	104.46	75	273.200	85	87.900	90	14.460						

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

ROOM CAVITY RATIO	RC	80%				70%				50%				30%				10%				0%			
		RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	30%	10%	50%	30%	10%	10%	30%	10%	0%			
0	119	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	101	101	101	99			
1	108	103	98	94	105	100	96	92	96	92	89	89	92	89	86	88	86	84	81	81	81	81			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	69	67	67	67	67	67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	67	62	58	56	56	56	56	56			
4	81	69	59	52	79	67	59	52	64	57	51	62	56	50	60	54	50	47	47	47	47	47			
5	74	61	52	45	72	60	51	45	58	50	44	55	49	43	53	48	43	41	41	41	41	41			
6	68	55	46	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35	35	35	35	35			
7	63	50	41	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31	31	31	31	31			
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28	28	28	28	28			
9	55	41	33	27	54	41	33	27	40	32	27	38	32	27	37	31	27	25	25	25	25	25			
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	35	28	24	22	22	22	22	22			

Cone of Light

Beam Dia.	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread
2	400	5.7	5.7
4	106	11.1	11.1
6	46.2	16.8	16.9
8	25.7	22.6	22.6
10	16.8	27.9	28.0
12	11.6	33.7	33.8

BEAM DIA. MEASURED AT 50% OF NADIR F.C.

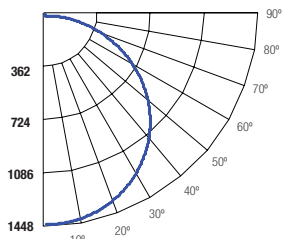
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

22-FPL-BL-LED-2000L-3000L-4000L-DIM10-MVOLT-35K-40K-50K-85(4000L)

TEST NO.: EL05212051

INPUT WATTS: **37.4** LUMENS: **4536** CRI: **85** EFFICACY: **121** CCT: **40K** SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	530.24	11.70	11.70
0-30	1134.29	25.00	25.00
0-40	1876.05	41.40	41.40
0-60	3402.22	75.00	75.00
0-80	4358.49	96.10	96.10
0-90	4489.77	99.00	99.00

Luminance (Average candela/M²)

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