

FEATURES

This fully luminous LED flat panel delivers exceptional performance and aesthetically pleasing optics, optimizing shallow plenum spaces. Perfect for new construction applications or retrofitting existing fluorescent troffer luminaires. It offers a range of dimming, lumen and CCT options. Perfect for either recessed or surface mounted installations, it's an ideal choice for commercial office space, retail merchandising, educational, and healthcare facilities.

LUMENS	7500, 9000
CCT	35K, 40K, 50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x4'
MOUNTING	Recessed, Suspended, Surface Mount
DIMMING & CONTROL	0-10V Flicker Free 1% 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

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
9000	7678	67 W
7500	6593	68 W

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



MAINTENANCE

LED engines and drivers are removable and upgradable even after luminaire installation. Luminaire can be regularly and safely wiped down to ensure optimal performance.

OPTICAL SYSTEM

The proprietary optical system utilizes a unique combination of reflective and refractive optical components to achieve a uniform, aesthetically pleasing appearance. Use of a light guide plate creates even, glare-free illumination, while maintaining high efficiency.

CONSTRUCTION

Heavy duty 20-gauge cold rolled steel back panel and aluminum frame, post-painted and engineered for maximum strength and extended life. All corners interlock to prevent aesthetic damage to the luminaire, with sides and corners uniformly turned in and hemmed to remove sharp edges for safe handling and easy installation. Luminaire is supplied with multiple wiring entrances for easy daisy chain of luminaires, to add power packs, whips, or other accessories in the field, or for continuous row mounting.

FINISH

Post-painted with a 93% reflective white coat to improve luminaire efficacy, with all body components seamlessly interlocked for added structural strength.

MOUNTING

Luminaires accommodate lay-in ceilings, Slot T, and T-bar suspension systems for 5/8" and 3/8" ceiling thicknesses. Four corner tie points are standard for safety wire support when required, with built-in earthquake clips, standard. Luminaires may be available with flange kits, surface mounted kits, and other options.

OPTIONS

Luminaires can be shipped pre-installed with whips, modular wiring systems, daylight harvesting controls, occupancy sensors, and/or power packs for individual or room control applications.

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 1% Dimming Standard (DIM10) 0-10V dimming on either MVOLT 120, 277 or 347V.

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.

Example: 24-FPLA1-LED-7500L-DIM10-MVOLT-40K-85

24	FPLA1	LED							
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
24 - 2' X 4'	FPLA1 - LED Flat Panel	LED	7500L - 5000 lumens 9000L - 9000 lumens	DIM10 - 0-10V Dimming	MVOLT 347* <small>*Consult factory for details</small>	35K 40K 50K	85	0-EMG-LED-10W 0-EMG-LED-20W	24FK - 2'x4' Flange Kit 24-FPL1-LED-SMK - 2'x4' Surface Mount Kit FBF - Internal Slow Blow Fuse SBF - Radio Interference RIS - Suppressor USA - Made in America Compliance LMFC-011 - Digital Lighting Manager

24-FPLA1-LED-7500L-DIM10-MVOLT-40K-85

INPUT WATTS: **68.5**

LUMENS: **6593**

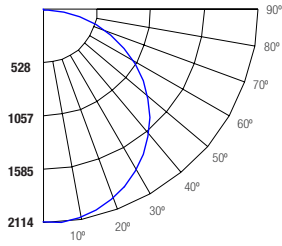
CRI: **85**

EFFICACY: **96**

CCT: **4000K**

TEST NO.: **EL101866**

Candle Power Distribution (Candelas)



Spacing Criteria

0-180 : **1.32**
 90-270 : **1.3**
 Diagonal : **1.42**

EFFICACY: 96 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1646.03	25.00	25.00
0-40°	2718.07	41.30	41.20
0-60°	4914.52	74.60	74.50
0-90°	6529.88	99.20	99.00
0-180°	6592.79	100.10	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	22915	22760	22525
55°	22877	22662	22326
65°	22756	22484	21974
75°	22665	22246	21490
85°	25716	24760	23039

Candela Tabulation

	0	45	90
0	2100.006	2100.006	2100.006
5	2113.610	2103.240	2096.430
15	2051.780	2042.360	2032.680
25	1926.620	1919.370	1907.500
35	1743.560	1735.070	1720.900
45	1506.750	1496.540	1481.110
55	1220.170	1208.700	1190.810
65	894.280	883.620	863.550
75	545.500	535.400	517.220
85	208.420	200.670	186.720
90	54.450	50.790	41.890

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC RW	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	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						
1	108	103	98	94	105	100	96	92	96	92	89	92	89	86	88	85	83	81						
2	97	89	81	75	95	87	80	74	83	77	73	79	75	71	76	72	69	67						
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56						
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47						
5	74	61	52	45	72	60	51	44	57	50	44	55	49	43	53	47	43	40						
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35						
7	63	50	41	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31						
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28						
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25						
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	35	28	24	22						

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

24-FPLA1-LED-9000L-DIM10-MVOLT-40K-80

INPUT WATTS: **67.1**

LUMENS: **7638**

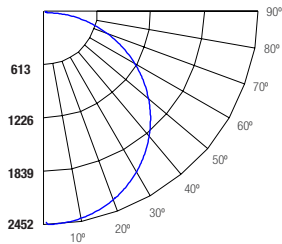
CRI: **80**

EFFICACY: **114**

CCT: **4000K**

TEST NO.: **EL081814**

Candle Power Distribution (Candelas)



Spacing Criteria

0-180 : **1.30**
 90-270 : **1.30**
 Diagonal : **1.42**

EFFICACY: 114 LM/W

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1907.45	N.A.	25.00
0-40°	3152.13	N.A.	41.30
0-60°	5701.09	N.A.	74.60
0-90°	7572.03	N.A.	99.10
0-180°	7638.49	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	3273	3242	3246
55°	3253	3202	3188
65°	3220	3138	3103
75°	3182	3035	2961
85°	3545	3168	3001

Candela Tabulation

	0	45	90
0	2427.953	2427.953	2427.953
5	2442.730	2432.220	2425.930
15	2366.690	2354.840	2351.660
25	2218.570	2206.010	2206.690
35	2001.100	1987.310	1990.470
45	1721.590	1705.600	1707.610
55	1387.970	1366.240	1360.260
65	1012.250	986.680	975.660
75	612.600	584.320	570.110
85	229.870	205.430	194.560
90	56.760	39.660	37.040

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20% = PF

RC RW	80%				70%				50%				30%				10%				0%			
	70%	50%	30%	10%	70%	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						
1	108	102	98	94	105	100	96	92	96	92	89	92	89	86	88	85	83	81						
2	97	89	81	75	95	87	80	74	83	77	73	79	75	71	76	72	69	67						
3	88	77	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56						
4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47						
5	74	61	52	45	72	60	51	44	57	50	44	55	49	43	53	47	43	40						
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35						
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31						
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	30	28						
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25						
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22						

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

- 1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated control systems
- 2- Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems
- 3- Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

BRAND	EASYFIT <small>by EnOcean</small>	LUTRON	enlighted	LEVITON	OSRAM	PHILIPS <small>EasySense</small>	legrand®
CONTROL UNIT	<input type="checkbox"/> LEDRU LED Relay Zone Controller 0-10V ¹ <input type="checkbox"/> LEDDU LED Zone Controller 0-10V ¹	<input type="checkbox"/> FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) ¹⁴ <input type="checkbox"/> FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) ¹⁴	<input type="checkbox"/> CU-4E-FMH Fixture Mount Control Unit ¹⁵	<input type="checkbox"/> ZL027 –NOW Intellect Power Control Module ¹⁶ <input type="checkbox"/> ZL027 –NOW Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN-WCM2-ZB-DR Wireless Control Module ¹⁷ <input type="checkbox"/> EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷ <input type="checkbox"/> ZBHA-CLM-DIM-ENC Connected Lighting Module DIM ¹⁷	<input type="checkbox"/> SBR -BS Xitanium SR Bridge ¹⁸	<input type="checkbox"/> LMFC-011 ON/OFF/0-10V dimming fixture controller ¹⁹
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	<input type="checkbox"/> EOSCU-W-EO Occupancy Sensor - Ceiling Mounted (Must be specified with LEDRU or LEDDU control unit) ³	N/A	N/A	N/A	N/A	N/A	<input type="checkbox"/> LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	<input type="checkbox"/> ELLSU-W-EO Light Level Sensor - Ceiling Mounted (Must be specified with LEDRU or LEDDU control unit) ³	N/A	N/A	N/A	N/A	N/A	<input type="checkbox"/> LMLS-400 Single zone switching and dimming digital photosensor ³
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor ³ <input type="checkbox"/> SU-5E-CL Connected Lighting Micro Sensor ³ <input type="checkbox"/> SU-5E-IL Independent Lighting / Enlighted One Micro Sensor ³ <input type="checkbox"/> SU-5S-H-(IoT/CL/IL) Surface Mount Sensor ³ (Must be specified with CU-4E-FMH Control Unit)	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System ³ (Must be specified with ZL027 –NOW Control Unit)	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor <input type="checkbox"/> EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³ (Must be specified with EN-WCM2-ZB-DR or EN-ALC-ZB-BK-DR Control Unit)	<input type="checkbox"/> SNS200-CMP SNS200 for grouping ³	N/A
ACCESORIES	N/A	N/A	<input type="checkbox"/> TMC-SU-5E Tile Mount Carrier <input type="checkbox"/> CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT Ready™ drivers <input type="checkbox"/> CBL-5E-CU4-7F 7 foot Sensor Cable for CU-4 and IoT Ready™ drivers	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with Lutron LRF2-OCR2B-P-WH Ceiling mount 360° occupancy/vacancy sensor & LRF2-DCRB-WH Ceiling-mount daylight sensor. Sensors must be ordered through Lutron.	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5S-H, Sensors.	6-Luminaire will be compatible with Leviton Intellect App & Keypad Room Controller	7-Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors	8-Luminaire will be compatible with Philips field and wireless switch.	9-Luminaire will be compatible with DLM Room control system LMPB-100. DLM control system must be order through Legrand.