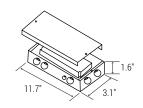
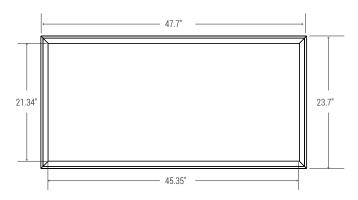
# 2' x 4' Architectural LED Flat Panel









NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	6440	51 W
4000	4397	37 W

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

# **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	4000, 6000
сст	40K, 50K
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x4', 2'x2'
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















# **MAINTENANCE**

The driver is 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.

# **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**

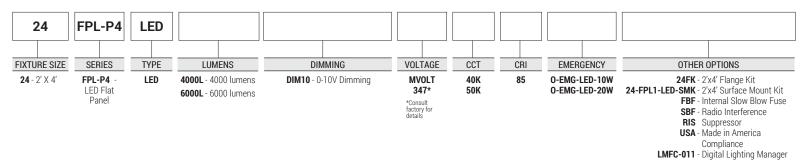
Five-year warranty for parts and components. (Labor not included)

#### LISTINGS

requirements.

c-UL-us - Listed for Feed Through Wiring. Listed for DLC. Can be used to comply with Title 24, non residential listing

# Example: 24-FPL-P4-LED-6000L-DIM10-MVOLT-40K-85

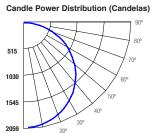






#### 24-FPL-P4-LED-6000L-DIM10-MVOLT-50K-85 TEST NO.: **EL101856**

CRI: **85** EFFICACY: 125 CCT: **5000K** SPACING CRITERIA: 1.42 INPUT WATTS: 51.6 LUMENS: **6440** 



Zone	Lumens	%Lamp	%Fixt
0-20	756.18	11.70	11.70
0-30	1616.79	25.10	25.10
0-40	2673.32	41.50	41.50
0-60	4844.21	75.20	75.20
0-80	6202.5	96.30	96.30
0-90	6386.46	99.20	99.10

**Zonal Lumens Summary** 

Zonal Lumens Summary				Lumina	nce (Aver	age cand	ela/M²)	Lumens Po	er Zone	Candela Tabulation		
Zone	Lumens	%Lamp	%Fixt	Angle	Average	Average	Average	Zone	Lumens		<u>0</u>	
0-20 0-30	756.18 1616.79	11.70 25.10	11.70 25.10	in Degrees	0°	45°	90°	0-10 10-20	194.93 561.25	0 5	2057.881 2043.680	
0-40	2673.32	41.50	41.50	45	2784	2771	2760	20-30	860.60	15	1984.030	
0-60	4844.21	75.20	75.20	55	2768	2750	2738	30-40	1056.53	25	1866.770	
0-80	6202.5	96.30	96.30	65 75	2706 2566	2681 2527	2670 2518	40-50	1123.4	35 45	1692.990 1464.690	
0-90	6386.46	99.20	99.10	85	2542	2482	2509	50-60 60-70	1047.49 837.63	55	1181.250	
`~ •#i-i-	-44    4	ation Zone	ol Cavity Mat					70-80 80-90	520.66 183.96	65 75 85	850.850 494.000 164.810	
oeniciei	nts of Utiliza	auon - Zona	al Cavity Metl	noa						90	34 530	

Cone of Light										
2	514	6.9	6.7							
4	129	13.7	13.3							
6	57.2	20.6	20							
8	32.2	27.5	26.7							
10	20.6	34.4	33.4							
12	14.3	41.2	40							
(FT.)Distance to Plane	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread								
BEAM	BEAM DIA, MEASURED AT 50% OF NADIR F.C.									

Effe					ance 0.20	.,												30	34.530
	RC			80%		70%				50%			30%	)		10%	)		0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0 1 2 3 4 5 6 7 8 9	119 108 98 89 81 74 69 64 59 55	119 103 89 78 69 61 55 50 45 41 38	119 98 82 69 59 52 46 41 37 33 30	119 94 76 62 53 45 39 34 31 27 25	116 105 95 86 79 72 67 62 57 54 50	116 100 87 76 67 60 54 49 44 41 38	116 96 80 68 59 51 45 40 36 33 30	116 92 75 62 52 45 39 34 30 27 25	111 96 83 73 65 58 52 47 43 40 37	111 92 78 66 57 50 44 39 36 32 29	111 89 73 61 51 44 38 34 30 27 25	106 92 80 70 62 56 50 46 42 38 36	106 89 75 64 56 49 43 39 35 32 29	106 86 71 59 50 44 38 34 30 27 24	101 88 77 67 60 54 48 44 40 37 35	101 86 73 62 54 48 42 38 34 31 29	101 84 69 58 50 43 38 33 30 27 24	99 81 67 56 47 41 35 31 28 25 22

RC - Ceiling Cavity Reflectance RW - Wall Reflectance



- 24-FPL-P4-LED
- 1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated contol 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 by EnOcean	<b>%LUTRON</b>	enlighted	<b>LEVITON</b> <sub>8</sub>	OSRAM	PHILIPS EasySense	<b>La legrand</b> ®	
	LEDRU LED Relay Zone Controller 0-10V <sup>1</sup>	Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) 14	□ CU-4E-FMH	☐ ZL027 –N0W Intellect Power Control Module <sup>16</sup>	■ EN-WCM2-ZB-DR Wireless Control Module <sup>17</sup>	□ SBR -BS	□ LMFC-011	
CONTROL UNIT	LEDDU LED Zone Controller 0-10V 1	☐ FCJS-EC0 Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive	Fixture Mount Control Unit 15	□ ZL027 –N0W Intellect Power Control Module 16	Wireless Area Lighting Control Module 17  ZBHA-CLM-DIM-ENC Connected Lighting	Xitanium SR Bridge <sup>18</sup>	ON/OFF/0-10V dimming fixture controller 19	
	0 100	Enabled) 14		Wodulo	Module DIM 17			
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
*WIRELESS OCCUPANCY SENSOR	□ 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	□ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor <sup>3</sup>	
*WIRELESS Daylight Sensor	☐ ELLSU-W-EO Light Level Sensor - Ceiling Mounted (Must be specified with LEDRU or LEDDU control unit) <sup>3</sup>	N/A	N/A	N/A	N/A	N/A	LMLS-400 Single zone switching and dimming digital photosensor <sup>3</sup>	
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	N/A	N/A	□ SU-5E-IoT IoT Node Micro Sensor ³ □ SU-5E-CL Connected Lighting Micro Sensor ³ □ SU-5E-IL Independent Lighting / Enlighted One Micro Sensor ³ □ SU-5S-H-(IoT/CL/IL) Surface Mount Sensor ³ (Must be specified with CU-4E-FMH Control Unit)	☐ ZL00J -T0W Intellect Intelligent Fixture Control System <sup>3</sup> (Must be specified with ZL027 –N0W Control Unit)	□ EN-CLM-PIR-DD-ZB SensiLUM <sup>TM</sup> Wireless Integrated Sensor □ EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors <sup>3</sup> (Must be specified with EN-WCM2-ZB-DR or EN- ALC-ZB-BK-DR Control Unit)	SNS200-CMP SNS200 for grouping <sup>3</sup>	N/A	
ACCESORIES	N/A	N/A	□ TMC-SU-5E Tile Mount Carrier □ CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT ReadyTM drivers □ CBL-5E-CU4-7F 7 foot Sensor Cable for CU-4 and IoT ReadyTM drivers	N/A	N/A	N/A	N/A	
NOTES	N/A	4- Luminaire will be compatible with Lutron LRF2-0CR2B-P-WH Ceiling mount360° occupancy/va- cancy 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 compatiable with DLM Room control system LMPB-100. DLM control system must be orderd through Legrand.	