1.6"
11.7"
3.1"

23.7"
21.34"
23.7"
21.34"

0.47"
2"

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	3500, 5000
CCT	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

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	5467	43W
3500	3293	31W

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

DLC QPL LISTED
c UL us LISTED
TITLE 24
PROUDLY ASSEMBLED in AMERICA
QUICKSHIP CONSULT FACTORY
5 YEARS LIMITED WARRANTY

elite LED LIGHTING
www.iuseelite.com
Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.

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.
Can be used to comply with Title 24, non residential lighting requirements.

Example: **22-FPL-P4-LED-5000L-DIM10-MVOLT-40K-85**

FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
22	**FPL-P4**	**LED**							
22 - 2' X 2'	**FPL-P4** - LED Flat Panel	**LED**	**3500L** **5000L**	**DIM10** - 0-10V Dimming	**MVOLT** **347*** *Consult factory for details	**40K** **50K**	**85**	**O-EMG-LED-10W** **O-EMG-LED-20W**	**22FK** - 2'x2' Flange Kit **22-FPL1-LED-SMK** - 2'x2' Surface Mount Kit **FBF** - Internal Slow Blow Fuse **SBF** - Radio Interference **RIS** Suppressor **USA** - Made in America Compliance **LMFC-011** - Digital Lighting Manager

22-FPL-P4-LED-5000L-DIM10-MVOLT-50K-85
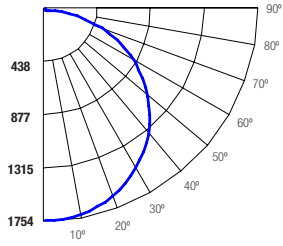TEST NO.: **EL101857**

| INPUT WATTS: **43.4** | LUMENS: **5467** | CRI: **85** | EFFICACY: **126** | CCT: **5000K** | SPACING CRITERIA: **1.42** |

Candle Power Distribution (Candelas)

438
877
1315
1754

90° 80° 70° 60° 50° 40° 30° 20° 10°

Cone of Light

2	437	6.7	6.8
4	109	13.3	13.7
6	48.6	20	20.5
8	27.3	26.7	27.3
10	17.5	33.3	34.1
12	12.2	40	41
(FT.) Distance to Plane	(FC.) Initial Footcandle at Nadir	(FT.) Beam Vert. Spread	(FT.) Beam Horiz. Spread

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	642.63	11.80	11.80
0-30	1373.75	25.10	25.10
0-40	2270.91	41.60	41.50
0-60	4113.49	75.30	75.20
0-80	5265.62	96.30	96.30
0-90	5419.61	99.20	99.10

Luminance (Average candela/M^2)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	2340	2351	2352
55	2318	2331	2333
65	2257	2269	2270
75	2126	2142	2136
85	2096	2127	2078

Lumens Per Zone

Zone	Lumens
0-10	165.66
10-20	476.97
20-30	731.12
30-40	897.16
40-50	953.29
50-60	889.29
60-70	711.85
70-80	440.27
80-90	153.99

Candela Tabulation

θ	
0	1749.679
5	1742.710
15	1688.520
25	1583.430
35	1428.910
45	1230.900
55	989.260
65	709.680
75	409.410
85	135.890
90	32.850

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20

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%**
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	93	89	92	89	86	88	86	84	82
2	98	89	82	76		95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	89	78	69	62		86	76	68	62	73	66	61	70	64	59	67	62	58	56
4	81	69	60	53		79	67	59	52	65	57	51	62	56	50	60	54	50	47
5	74	61	52	45		72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39		67	54	45	39	52	44	38	50	43	38	48	42	38	35
7	64	50	41	34		62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	59	45	37	31		57	45	36	30	43	36	30	42	35	30	41	34	30	28
9	55	41	33	27		54	41	33	27	40	32	27	38	32	27	37	31	27	25
10	52	38	30	25		50	38	30	25	37	29	25	36	29	24	35	29	24	22

ROOM CAVITY RATIO

RC - Ceiling Cavity Reflectance   *RW - Wall Reflectance*

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	LUTRON	enlighted	LEVITON	OSRAM	PHILIPS EasySense	legrand
CONTROL UNIT	❏ LEDRU LED Relay Zone Controller 0-10V [1] ❏ LEDDU LED Zone Controller 0-10V [1]	❏ FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) [1 4] ❏ FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminaire is shipped Vive Enabled) [1 4]	❏ CU-4E-FMH Fixture Mount Control Unit [1 5]	❏ ZL027 –N0W Intellect Power Control Module [1 6] ❏ ZL027 –N0W Intellect Power Control Module [1 6]	❏ EN-WCM2-ZB-DR Wireless Control Module [1 7] ❏ EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module [1 7] ❏ ZBHA-CLM-DIM-ENC Connected Lighting Module DIM [1 7]	❏ SBR -BS Xitanium SR Bridge [1 8]	❏ LMFC-011 ON/OFF/0-10V dimming fixture controller [1 9]
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 [3]
*WIRELESS DAYLIGHT SENSOR	❏ 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	❏ LMLS-400 Single zone switching and dimming digital photosensor [3]
*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 [3] **(Must be specified with ZL027 –N0W Control Unit)**	❏ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ❏ 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)**	❏ SNS200-CMP SNS200 for grouping [3]	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-OCR2B-P-WH Ceiling mount360° 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 orderd through Legrand.

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