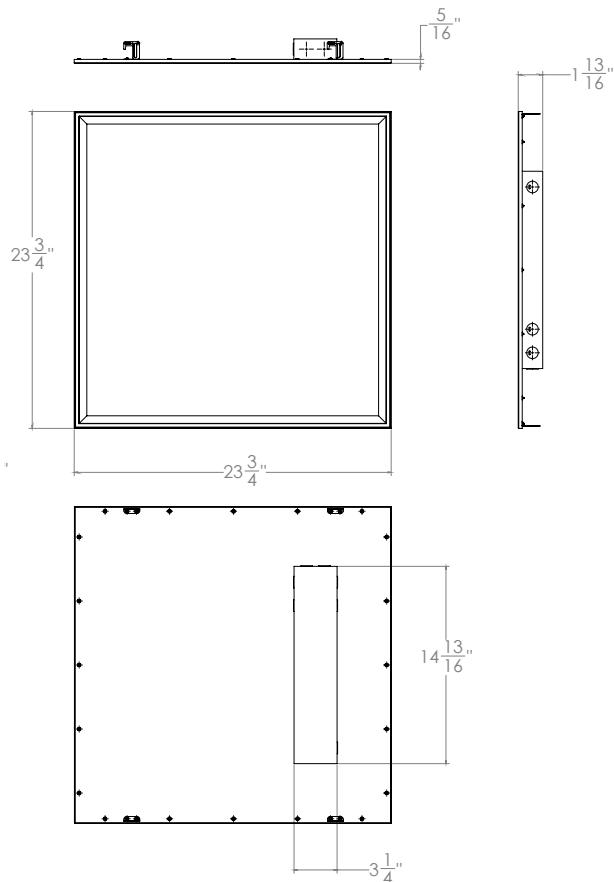
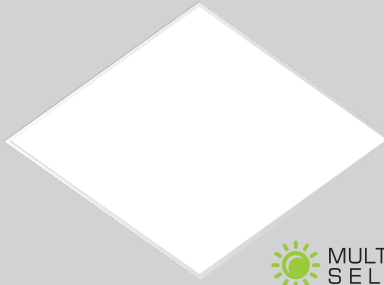




NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
5000	5022	53 W
4000	4678	42 W
3000	3632	31 W
2000	2434	19 W

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	2000/ 3000/ 4000 3000/ 4000/ 5000
CCT	30K, 35K, 40K, 50K
CRI	85+
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 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 guide plate laser allows high density pixels to shine, creating an even illumination with no glare, while maintaining a 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 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.

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

Example: 22-FPL1-LED-2000/3000/4000L-DIM10-MVOLT-30K-85

22	FPL1	LED							
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
22 - 2' X 2'	FPL1 - LED Flat Panel	LED	2000/3000/4000L 3000/4000/5000L	DIM10 - 0-10V Dimming	MVOLT	30K 35K 40K 50K	85	0-EMG-LED-10W 0-EMG-LED-20W	22FK 2'x2' Flange Kit 22-FPL1-LED-SMK 2'x2' Surface Mount Kit FBF Internal Fast Blow Fuse SBF Internal Slow Blow Fuse RIS Radio Interference Suppressor USA Made in America Compliance

22-FPL1-LED-2000L-3000L-4000L-DIM10-MVOLT-40K-85(2000L)

TEST NO.: EL10041917

INPUT WATTS: 19.9684

LUMENS: 2434

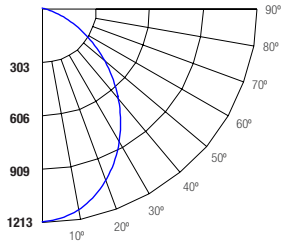
CRI: 85

EFFICACY: 122

CCT: 4000K

SPACING CRITERIA: 1.22

Candle Power Distribution (Candelas)



Cone of Light			
2	303	3.9	3.9
4	75.8	7.9	7.9
6	33.7	11.8	11.8
8	18.9	15.8	15.8
10	12.1	19.7	19.6
12	8.42	23.6	23.6
(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	431.17	17.70	17.70
0-30	885.63	36.40	36.40
0-40	1387.64	57.00	57.00
0-60	2191.15	90.00	90.00
0-80	2431.94	99.90	99.90
0-90	2432.07	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	2792	2790	2868
55	2182	2201	2307
65	1417	1467	1588
75	374	450	622
85	2	2	2

Lumens Per Zone

Zone	Lumens
0-10	113.88
10-20	317.29
20-30	454.46
30-40	502.02
40-50	459.01
50-60	344.50
60-70	192.04
70-80	48.74
80-90	0.13

Candela Tabulation

0	0
0	1212.06
5	1199.34
15	1119.33
25	975.63
35	787.36
45	576.78
55	365.66
65	174.93
75	28.25
85	0.05
90	0.06

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

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%	50%	30%	10%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100	88	88	88
	1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	84	81	78	77	77	77
	2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	77	74	70	67	69	67	67
	3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67	65	61	58	58	58	58
	4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58	64	58	54	51	51	51
	5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51	60	54	49	46	46	46
	6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46	54	48	43	41	41	41
	7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41	50	44	39	37	37	37
	8	65	53	45	40	64	52	45	39	51	44	39	50	43	39	49	43	39	37	46	40	35	34	34	34
	9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	43	37	32	32	32	32
	10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31	42	36	32	31	31	31

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

22-FPL1-LED-2000L-3000L-4000L-DIM10-MVOLT-40K-85(3000L)

TEST NO.: EL10041918

INPUT WATTS: 31.2207

LUMENS: 3624

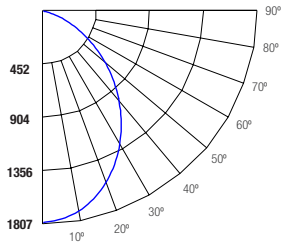
CRI: 85

EFFICACY: 116

CCT: 4000K

SPACING CRITERIA: 1.22

Candle Power Distribution (Candelas)



Cone of Light			
2	451	3.9	3.9
4	113	7.9	7.9
6	50.2	11.8	11.8
8	28.2	15.8	15.8
10	18.1	19.7	19.6
12	12.5	23.6	23.6
(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	642.48	17.70	17.70
0-30	1319.49	36.40	36.40
0-40	2067.08	57.00	57.00
0-60	3262.81	90.00	90.00
0-80	3620.3	99.90	99.90
0-90	3620.45	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3265	3264	3357
55	2550	2572	2700
65	1655	1713	1862
75	437	522	723
85	2	2	2

Lumens Per Zone

Zone	Lumens
0-10	169.71
10-20	472.77
20-30	677.01
30-40	747.59
40-50	683.30
50-60	512.43
60-70	285.29
70-80	72.20
80-90	0.16

Candela Tabulation

0	0
0	1805.91
5	1787.30
15	1667.60
25	1453.36
35	1172.59
45	858.68
55	543.99
65	260.13
75	42.10
85	0.07
90	0.09

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

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%	50%	30%	10%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100	88	88	88
	1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88	84	81	79	77	77	77
	2	102	96	90	85	100	94	88	84	90	86	82	87	83	80	84	81	78	77	74	70	67	69	67	67
	3	95	85	78	73	92	84	77	72	81	75	71	78	74	70	76	72	69	67	65	61	58	58	58	58
	4	87	77	69	63	85	75	68	63	73	67	62	71	65	61	69	64	60	58	64	58	54	51	51	51
	5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51	60	54	49	46	46	46
	6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	48	46	54	48	43	41	41	41
	7	70	58	49	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41	50	44	39	37	37	37
	8	65	53	45	40	64	52	45	39	51	44	39	50	43	39	49	43	39	37	46	40	35	34	34	34
	9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	34	43	37	32	32	32	32
	10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31	42	36	32	31	31	31

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

22-FPL1-LED-2000L-3000L-4000L-DIM10-MVOLT-40K-85(4000L)

TEST NO.: EL10041919

INPUT WATTS: 42.5013

LUMENS: 4678

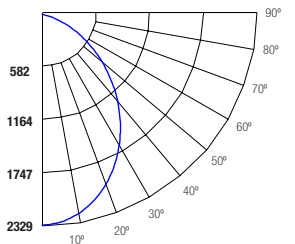
CRI: 85

EFFICACY: 110

CCT: 4000K

SPACING CRITERIA: 1.22

Candle Power Distribution (Candelas)



Cone of Light			
2	582	3.9	3.9
4	145	7.9	7.9
6	64.7	11.8	11.8
8	36.4	15.8	15.8
10	23.3	19.7	19.6
12	16.2	23.6	23.6
(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	828.15	17.70	17.70
0-30	1701.17	36.40	36.40
0-40	2665.7	57.00	57.00
0-60	4209.95	90.00	90.00
0-80	4673.55	99.90	99.90
0-90	4673.81	99.90	99.90

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	536839	537086	552529
55	419974	423739	444436
65	272690	282580	306166
75	73442	87898	120182
85	353	314	353

Lumens Per Zone

Zone	Lumens
0-10	218.73
10-20	609.42
20-30	873.02
30-40	964.53
40-50	882.09
50-60	662.16
60-70	369.30
70-80	94.29
80-90	0.27

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 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 (Luminaire 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 -NOW Intellect Power Control Module ^{1 6} ☐ ZL027 -NOW 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-E0 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-E0 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 -TOW Intellect Intelligent Fixture Control System ³ (Must be specified with ZL027 -NOW 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
ACCESSORIES	N/A	N/A	☐ TMC-SU-5E Tile Mount Carrier ☐ CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT Ready™ drivers ☐ 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 orderd through Legrand.