

MAINTENANCE

The center acrylic diffuser can be removed, allowing easy access to LED boards and driver compartment, locking into place for secure closure of the luminaire. 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 LED light engine is secured to the body of the luminaire, with the body acting as a heat sink. A proprietary design of the lens results in zero pixilation, regardless of the viewing angle, with LEDs placed to promote a uniform appearance. The result is even illumination across the space, from luminaire to luminaire.

CONSTRUCTION

Body is constructed of heavy-duty 20-gauge cold rolled steel, 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.

LUT2W - Lutron LTEA2W Hi-Lume 1%. 2-wire LED driver (120V forward phase only).

LUTH - Lutron LDE1 Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.

ELDO10.1 - EldoLED SoloDrive 0-10V. Dimming down to 0.1%.

DALI - DALI DT6, DT8 dimming down to 1%.

ELDODMX - EldoLED PowerDrive dimming down to 0.1%.

Please see EldoLED website for wiring diagrams and a list of compatible DMX and DALI control systems.

DIMST - Step Dimming

WARRANTY

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

LED DYNAMIC PLATFORM OPTIONS



Tunable White with Smart White Technology utilizing the Lumenetix Platform allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K. (Click here for more details)



Dims to Warm with Smart Dimming Technology. At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space. (Click here for more details)



RGB+White with Smart Hue Technology provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment. (Click here for more details)

LISTINGS

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

Example: **22-ODVH-LED-4000L-DIM10-MVOLT-30K-85**

22	ODVH	LED								
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS	
22 - 2' X2'	ODVH - LED Volumetric Troffer	LED	2400L - 2400 lumens 3400L - 3400 lumens 4000L - 4000 lumens 5000L - 5000 lumens 6000L - 6000 lumens	DIM10 - 0-10V Dimming DIMST - Step Dimming LUTH - Lutron HiLume LUT2W - Lutron 2Wire ELDO10.1 - EldoLED 0-10V DALI - EldoLED DALI ELDODMX - EldoLED DMX	MVOLT 347* 120 277	30K 35K 40K 50K	85 90	O-EMG-LED-10W O-EMG-LED-20W O-EMG-LED-G2-10W-SDT O-EMG-LED-G2-20W-SDT	22FK - 2'x2' Flange Kit FBF - Internal Fast Blow Fuse SBF - Internal Slow Blow Fuse RIS - Radio Interference Suppressor USA - Made in America Compliance FS-PPV2 - Fixture Sensor Power Pack FD-301 - Low Voltage Daylight Dimming Photosensor LMFC-011 - Digital Lighting Manager FS-205 - Low Voltage Pir Fixture Integrated Occupancy Sensor	

LUT2W are available in 120V only **LUT2W** up to 4000L
LUTH, **ELDO10.1**, **ELDODALI-1**, and **ELDODMX-1** are available in 120V and 277V
 -Reference last page for Control Options

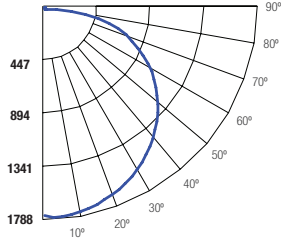
***FD-301** & **FS-205** require **FS-PPV2**- Power Pack

22-ODVH-LED-5000L-DIM10-MVOLT-40K-85

TEST NO.: **EL1118108**

INPUT WATTS: **47** LUMENS: **5657** CRI: **85** EFFICACY: **120** CCT: **4000K** SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	647.97	N.A.	11.50
0-30	1380.46	N.A.	24.40
0-40	2275.3	N.A.	40.20
0-60	4129.08	N.A.	73.00
0-80	5415.45	N.A.	95.70
0-90	5607.27	N.A.	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	5184	4778	4354
55	5485	4854	4167
65	5966	5044	3921
75	6829	5466	3556
85	7144	6139	2730

Lumens Per Zone

Zone	Lumens
0-10	167.42
10-20	480.55
20-30	732.49
30-40	894.84
40-50	950.97
50-60	902.81
60-70	759.54
70-80	526.82
80-90	191.82

Candela Tabulation

0	1	2	3	4	5	6	7	8	9
0	1770.025	5	1783.010	15	1734.550	25	1647.360	35	1522.990
45	1363.360	55	1170.250	65	937.910	75	657.390	85	231.600
90	13.800								

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light

Beam Dia. (ft)	Beam Dia. (m)	Beam Dia. (ft)	Beam Dia. (m)
2	443	9	5.5
4	111	18.1	11
6	49.2	27.1	16.5
8	27.7	36.1	22.1
10	17.7	45.2	27.6
12	12.3	54.2	33.1

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

ROOM CAVITY RATIO	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%	50%	30%	10%	0%				
0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99							
1	2	107	102	97	93	104	100	95	91	95	92	88	91	88	85	87	85	83	80							
2	3	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66							
3	4	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55							
4	5	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	48	46							
5	6	74	60	51	44	71	59	50	44	57	49	43	55	48	42	53	47	42	40							
6	7	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34							
7	8	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30							
8	9	58	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27							
9	10	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24							
10		51	38	30	24	50	37	29	24	36	29	24	35	28	24	34	28	24	22							

RC - Ceiling Cavity Reflectance

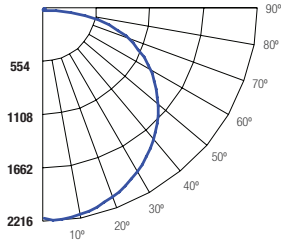
RW - Wall Reflectance

22-ODVH-LED-6000L-DIM10-MVOLT-40K-85

TEST NO.: **EL1118109**

INPUT WATTS: **59.4** LUMENS: **6996** CRI: **85** EFFICACY: **118** CCT: **4000K** SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	801.95	N.A.	11.50
0-30	1708.34	N.A.	24.40
0-40	2815.58	N.A.	40.20
0-60	5107.64	N.A.	73.00
0-80	6696.71	N.A.	95.70
0-90	6934.49	N.A.	99.10

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	6428	5919	5384
55	6804	6012	5151
65	7406	6251	4847
75	8468	6778	4360
85	8863	7571	3363

Lumens Per Zone

Zone	Lumens
0-10	207.21
10-20	594.74
20-30	906.39
30-40	1107.24
40-50	1176.66
50-60	1115.41
60-70	937.35
70-80	651.71
80-90	237.78

Candela Tabulation

0	1	2	3	4	5	6	7	8	9
0	2190.970	5	2209.828	15	2149.940	25	2042.181	35	1888.507
45	1690.664	55	1451.583	65	1164.256	75	815.254	85	287.338
90	16.938								

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light

Beam Dia. (ft)	Beam Dia. (m)	Beam Dia. (ft)	Beam Dia. (m)
2	548	9	5.5
4	137	18	11
6	60.9	27	16.5
8	34.2	36	22
10	21.9	45	27.5
12	15.2	54	33

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

ROOM CAVITY RATIO	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%	50%	30%	10%	0%				
0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99							
1	2	107	102	97	93	104	100	95	91	95	92	88	91	88	85	87	85	83	80							
2	3	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66							
3	4	88	77	68	61	85	75	67	60	72	65	59	69	63	58	66	61	57	55							
4	5	80	68	58	51	78	66	58	51	64	56	50	61	55	49	59	53	48	46							
5	6	74	60	51	44	71	59	50	44	57	49	43	55	48	42	53	47	42	40							
6	7	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	41	37	34							
7	8	63	49	40	33	61	48	39	33	46	39	33	45	38	33	43	37	32	30							
8	9	58	45	36	30	57	44	35	30	42	35	29	41	34	29	40	34	29	27							
9	10	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24							
10		51	38	30	24	50	37	29	24	36	29	24	35	28	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"/> FCJS-0-10 Lutron Vive 0-10V Individual Control Models 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"/> EN-WCM2-ZB-DR Wireless Control Module ¹⁷	<input type="checkbox"/> XITANIUM SR LED DRIVER The Philips Advance Xitanium SR LED driver ¹⁸	<input type="checkbox"/> LMFC-011 ON/OFF/0-10V dimming fixture controller ¹⁹
	<input type="checkbox"/> LEDDU LED Zone Controller 0-10V ¹	<input type="checkbox"/> FCJS-ECO Lutron Vive Eco-system Individual Control Models ¹⁴		<input type="checkbox"/> ZL027 -DLE Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷		<input type="checkbox"/> FS-PP-V2 FS-PP Fixture Integrated Sensor Power Pack ¹⁹
INTEGRAT OCCUPANCY& DAYLIGHT SENSOR	N/A	<input type="checkbox"/> DFCSJ-OEM-OCC Clear Connect (RF) and Occupancy/ Daylight Sensing ²	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor <input type="checkbox"/> SU-5E-CL Connected Micro Sensor <input type="checkbox"/> SU-5E-IL Independent Micro Sensor <input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor (Must be Specified with CU- 4E-FMH Control Unit)²	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System ²	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor	<input type="checkbox"/> SNS200 SNS200 for grouping ²	<input type="checkbox"/> FD-301 Fixture integrated Daylight Dimming Sensor ²
			<input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System ²	<input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM ²	<input type="checkbox"/> SNS300 SNS300 for networks ²	<input type="checkbox"/> FS-205 Fixture integrated passive infrared occupancy sensor ²	
*WIRELESS OCCUPANCY SENSOR	<input type="checkbox"/> E0SCU-W-E0 Occupancy Sensor - Ceiling Mounted ³	<input type="checkbox"/> LRF2-OCR2B-P-WH Ceiling mount 360° ,occupancy/vacancy sensor ³	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	<input type="checkbox"/> LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	<input type="checkbox"/> ELLSU-W-E0 Light Level Sensor - Ceiling Mounted ³	<input type="checkbox"/> LRF2-DCRB-WH Ceiling-mount daylight sensor ³	N/A	N/A	<input type="checkbox"/> EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	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 <input type="checkbox"/> SU-5E-CL Connected Micro Sensor <input type="checkbox"/> SU-5E-IL Independent Micro Sensor <input type="checkbox"/> SU-5S-H(IoT/CL/IL) Surface Mount Sensor (Must be specified with CU- 4E-FMH Control Unit)³	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System <input type="checkbox"/> ZL00J-DOW Intellect Intelligent Fixture Control System (Must be specified with ZL027-NOW and ZL00J- DOW Control unit)³	<input type="checkbox"/> EN-CLM- PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor <input type="checkbox"/> ZBHA- CLM-DIM-ENC Connected Lighting Module DIM (Must be specified with EN-WCM2-ZB-DR or EN- ALC-ZB-BK-DR Control Unit)³	<input type="checkbox"/> SNS200-CMP SNS-200 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 <input type="checkbox"/> CBL-5E-CU4-7F 7 Foot sensor cable for CU-4 and IoT Ready Driver	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with LUTRON LRF2-OCR2B-PWH Ceiling mount 360deg occupancy/ vacancy sensor & LRF2-DCRB-WH ceiling mount daylight sensor. Sensors must be orderd through Lutron	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5SH, Sensors	6- Luminaire will be compatible with LEVITON I ntellect APP & Keypad room controller	7- Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless passive infrared occupancy and photo sensor	8- Luminaire will be compatible with philips field and wireless switch	9- Luminaire will be compatible with DLM Room control system LMPB-100. . Sensors must be orderd through Legrand.