

FEATURES

The ODVH-LED blends the traditional look of an architectural volumetric troffer with a center acrylic diffuser, resulting in unmatched optical performance that delivers the latest in LED technology and lens innovation. The integrated LEDs are strategically angled behind the center indirect acrylic diffuser to maximize lumen output and provide even illumination across the full face of the luminaire. The consistency of the volumetric effect results in optimized visual comfort, enhancing the quality of illumination. The combination of energy savings and optical performance creates the ideal choice for educational, medical, office and retail spaces.

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	5898	46 W
5000	5110	40 W
4000	3829	30 W
3400	3115	24 W

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

LUMENS	3400, 4000, 5000, 6000
CCT & DYNAMIC PLATFORMS	30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White
CRI	85+(standard), 90+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x2', 2'x4', 1'x4'
MOUNTING	Recessed
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, LUT2W, DIMST, ELDO10.1, ELDODMX.1, DALI.1
EMERGENCY	10W - Up to 1000L output 20W - Up to 2000L output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory) EMG-LED-G2-20W-SDT - Self Diagnostic (Consult Factory)
LIFETIME	L70 at 50,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



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

FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS
14 - 1' X 4'	ODVH - LED Volumetric Troffer	LED	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	14FK - 1'x4' 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 5000L
LUTH, **ELDO10.1**, **ELDODALI-1**, and **ELDODMX-1** are available in 120V and 277V
*Reference last page for Control Options

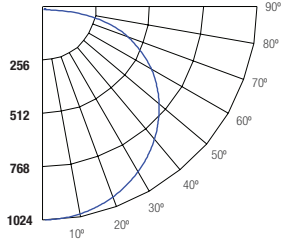
***FD-301** & **FS-205** require **FS-PPV2**- Power Pack

14-ODVH-LED-3400L-DIM10-MVOLT-40K-85

TEST NO.: **EL121818**

INPUT WATTS: **28.1** LUMENS: **3318** CRI: **85** EFFICACY: **118** CCT: **4000K**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	800.24	N.A.	24.10
0-40°	1321.51	N.A.	39.80
0-60°	2412.79	N.A.	72.70
0-90°	3293.44	N.A.	99.20
0-180°	3318.46	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	2528	2755	2979
55°	2395	2798	3152
65°	2260	2917	3418
75°	1997	3172	3903
85°	1457	3656	4338

Candela Tabulation

	0	45	90
0	1022.823	1022.823	1022.823
5	1018.157	1018.985	1019.608
15	977.694	986.624	992.948
25	901.983	924.928	943.722
35	792.110	835.696	873.582
45	664.787	724.546	783.393
55	511.032	596.995	672.463
65	355.323	458.478	537.290
75	192.295	305.322	375.721
85	47.242	118.537	140.646
90	5.046	5.191	13.893

Spacing Criteria

- O-180 : 1.24
- 90-270 : 1.34
- Diagonal : 1.42

EFFICACY: 118 LM/W

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%			70%			50%			30%			10%			0%		
		70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	101	101	101	99	99	99
1	107	102	97	93	104	100	95	91	95	91	88	85	87	85	83	80	80	80	80
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	75	71	68	66	66
3	88	77	68	61	85	75	67	60	72	65	59	63	58	66	61	57	54	54	54
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46	46
5	73	60	51	44	71	59	50	43	57	49	43	54	48	42	52	46	42	39	39
6	68	54	44	38	66	53	44	38	51	43	37	49	42	37	47	41	36	34	34
7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30	27
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	33	29	27	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24	24
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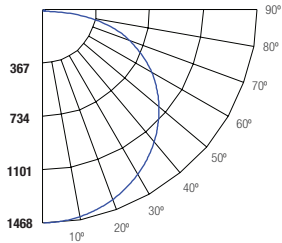
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

14-ODVH-LED-4000L-DIM10-MVOLT-40K-85

TEST NO.: **EL121818**

INPUT WATTS: **40.1** LUMENS: **4759** CRI: **85** EFFICACY: **119** CCT: **4000K**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1147.71	N.A.	24.10
0-40°	1895.33	N.A.	39.80
0-60°	3460.44	N.A.	72.70
0-90°	4723.49	N.A.	99.20
0-180°	4759.37	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	3625	3951	4272
55°	3435	4013	4521
65°	3242	4183	4902
75°	2865	4549	5597
85°	2090	5244	6222

Candela Tabulation

	0	45	90
0	1466.944	1466.944	1466.944
5	1460.251	1461.439	1462.333
15	1402.220	1415.027	1424.096
25	1293.634	1326.541	1353.497
35	1136.053	1198.564	1252.901
45	953.445	1039.152	1123.550
55	732.927	856.217	964.454
65	509.608	657.553	770.586
75	275.792	437.897	538.863
85	67.754	170.007	201.715
90	7.238	7.445	19.925

Spacing Criteria

- O-180 : 1.24
- 90-270 : 1.34
- Diagonal : 1.42

EFFICACY: 119 LM/W

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%			70%			50%			30%			10%			0%		
		70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	101	101	101	99	99	99
1	107	102	97	93	104	100	95	91	95	91	88	85	87	85	83	80	80	80	80
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	75	71	68	66	66
3	88	77	68	61	85	75	67	60	72	65	59	63	58	66	61	57	54	54	54
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46	46
5	73	60	51	44	71	59	50	43	57	49	43	54	48	42	52	46	42	39	39
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9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24	24
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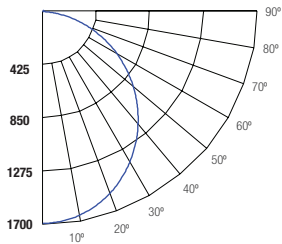
RC - Ceiling Cavity Reflectance RW - Wall Reflectance

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

TEST NO.: **EL121818**

INPUT WATTS: **47.2** LUMENS: **5496** CRI: **85** EFFICACY: **116** CCT: **4000K**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1327.56	N.A.	24.20
0-40°	2192.19	N.A.	39.90
0-60°	3996.05	N.A.	72.70
0-90°	5454.2	N.A.	99.20
0-180°	5495.81	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	4941	4498	4098
55°	5229	4565	3889
65°	5668	4758	3593
75°	6465	5208	3080
85°	7170	6427	1815

Candela Tabulation

	0	45	90
0	1696.971	1696.971	1696.971
5	1691.847	1686.779	1685.657
15	1647.691	1628.008	1615.071
25	1565.775	1520.321	1483.045
35	1449.488	1368.170	1299.118
45	1299.685	1183.068	1077.854
55	1115.572	974.030	829.799
65	891.043	747.904	564.852
75	622.357	501.332	296.475
85	232.430	208.338	58.854
90	25.060	24.370	3.636

Spacing Criteria

- O-180 : 1.34
- 90-270 : 1.24
- Diagonal : 1.42

EFFICACY: 116 LM/W

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 20% = PF

RC	RW	80%			70%			50%			30%			10%			0%		
		70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%	70%	50%	30%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	101	101	101	99	99	99
1	107	102	97	93	104	100	95	91	95	91	88	85	87	85	83	80	80	80	80
2	97	88	80	74	94	86	79	73	82	76	71	79	74	70	75	71	68	66	66
3	88	77	68	61	85	75	67	60	72	65	59	63	58	66	61	57	54	54	54
4	80	67	58	51	78	66	57	51	63	56	50	61	54	49	59	53	48	46	46
5	73	60	51	44	71	59	50	43	57	49	43	54	48	42	52	46	42	39	39
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7	63	49	40	33	61	48	39	33	46	38	33	45	38	32	43	37	32	30	27
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9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22	22

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

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

INPUT WATTS: **59.1**

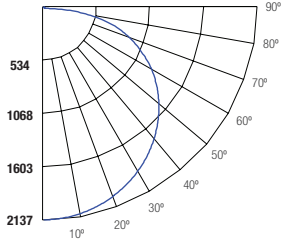
LUMENS: **6906**

CRI: **85**

EFFICACY: **117**

CCT: **4000K**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-30°	1669.76	N.A.	24.20
0-40°	2757.21	N.A.	39.90
0-60°	5023.49	N.A.	72.70
0-90°	6853.92	N.A.	99.20
0-180°	6906.39	N.A.	100.00

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	6209	5659	5155
55°	6570	5738	4893
65°	7125	5981	4521
75°	8117	6548	3860
85°	9018	8105	2253

Candela Tabulation

	0	45	90
0	2134.604	2134.604	2134.604
5	2127.861	2121.535	2120.475
15	2071.799	2047.390	2032.011
25	1968.752	1911.145	1865.760
35	1822.560	1719.579	1634.251
45	1633.081	1488.302	1355.778
55	1401.771	1224.104	1043.887
65	1120.085	940.155	710.623
75	781.422	630.417	371.562
85	292.339	262.741	73.052
90	32.833	31.795	4.659

Spacing Criteria

0-180	: 1.34
90-270	: 1.24
Diagonal	: 1.42

EFFICACY: 117 LM/W

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%		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	101	99	99	99	99	99	
1	107	102	97	93	104	100	95	91	95	92	88	91	88	85	87	85	83	80	80	80	80	80	80	
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8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	33	29	27	27	27	27	27	27	
9	54	41	32	27	53	40	32	26	39	31	26	38	31	26	37	30	26	24	24	24	24	24	24	
10	51	37	29	24	50	37	29	24	36	29	24	35	28	24	34	28	23	22	22	22	22	22	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 by EnOcean	LUTRON	enlighted	LEVITON®	OSRAM	PHILIPS EasySense	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.