

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
6000	6147	52 W
5000	5076	41 W
4000	4153	32 W
3400	3281	25 W

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

FEATURES

The Architectural NV-LED luminaire adopts the latest in optical and LED technology, resulting in extraordinary lighting uniformity and performance. The distinct design of the luminaire utilizes a micro-prism optical lens and angled backlit lens to create a volumetric, uniform appearance to complement any architectural space. With a high angled distribution, it provides a higher intensity of illumination across the work plane, while delivering a shadow-free, soft glow across the entire surface, blending seamlessly into the ceiling. The high efficiency, sustainability, and exceptional quality of the luminaire makes it the ideal source for corporate offices, educational, healthcare, and retail applications.

LUMENS	3400, 4000, 5000, 6000
CCT & DYNAMIC PLATFORMS	30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White
CRI	85+
COLOR QUALITY	3 Step MacAdam Ellipse
SIZE	2'x2', 2'x4'
MOUNTING	Recessed
DIMMING & CONTROL	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, 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 and lamp shields 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-NV-LED-4000L-DIM10-MVOLT-30K-85**

22	NV	LED								
FIXTURE SIZE	SERIES	TYPE	LUMENS	DIMMING	VOLTAGE	CCT	CRI	EMERGENCY	OTHER OPTIONS	
22 - 2' X2'	NV - 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.1 - EldoLED DALI ELDODMX.1 - EldoLED DMX	MVOLT 347* 120 277 *Consult factory for details	30K 35K 40K 50K	85	O-EMG-LED-10W O-EMG-LED-20W O-EMG-LED-G2-10W-SDT O-EMG-LED-G2-20W-SDT *Consult factory for details	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-NV-LED-3400L-DIM10-MVOLT-40K-85

INPUT WATTS: **25.8**

LUMENS: **3281**

CRI: **85**

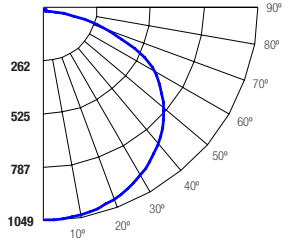
EFFICACY: **127**

CCT: **4000K**

TEST NO.: **EL111829**

SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Cone of Light			
2	262	9	5.3
4	65.5	17.9	10.6
6	29.1	26.9	15.8
8	16.4	35.8	21.1
10	10.5	44.8	26.4
12	7.28	53.8	31.7
(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	384.22	N.A.	11.70
0-30	819.11	N.A.	25.00
0-40	1352.64	N.A.	41.20
0-60	2465.75	N.A.	75.20
0-80	3175.82	N.A.	96.80
0-90	3249.74	N.A.	99.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	3175	2878	2434
55	3375	2943	2285
65	3539	3072	2132
75	2794	2927	1883
85	1601	1946	1610

Lumens Per Zone

Zone	Lumens
0-10	99.23
10-20	284.98
20-30	434.90
30-40	533.53
40-50	571.14
50-60	541.97
60-70	445.29
70-80	264.79
80-90	73.91

Candela Tabulation

0	0	0
0	1048.581	0
5	1047.440	5
15	1026.627	15
25	985.196	25
35	921.332	35
45	834.991	45
55	720.090	55
65	556.298	65
75	268.993	75
85	51.913	85
90	5.199	90

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%	50%	30%	10%	50%	30%	10%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	101	101	101	99	99	99
1	108	103	98	94	94	105	101	96	93	96	93	90	92	89	87	88	86	86	86	86	84	82	82	82
2	98	89	82	76	76	95	87	81	75	83	78	73	80	75	71	77	73	73	73	73	69	67	67	67
3	89	78	69	62	62	86	76	68	62	73	66	61	70	64	59	67	62	62	62	58	56	56	56	56
4	81	69	59	53	53	79	67	59	52	64	57	51	62	56	50	60	54	50	50	48	43	41	41	41
5	74	61	52	45	45	72	60	51	45	58	50	44	55	49	43	53	48	43	43	42	37	35	35	35
6	68	55	46	39	39	66	54	45	39	52	44	38	50	43	38	48	42	42	42	37	35	35	35	35
7	63	50	41	34	34	62	49	40	34	47	39	34	45	39	33	44	38	38	38	33	31	31	31	31
8	59	45	36	30	30	57	44	36	30	43	35	30	42	35	30	40	34	34	34	30	28	28	28	28
9	55	41	33	27	27	54	41	33	27	39	32	27	38	32	27	37	31	31	31	27	25	25	25	25
10	52	38	30	25	25	50	38	30	25	36	29	24	35	29	24	35	28	28	28	24	22	22	22	22

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

22-NV-LED-4000L-DIM10-MVOLT-40K-85

INPUT WATTS: **32.9**

LUMENS: **4153**

CRI: **85**

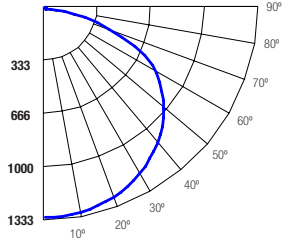
EFFICACY: **126**

CCT: **4000K**

TEST NO.: **EL111828**

SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Cone of Light			
2	333	9	5.3
4	83.1	17.9	10.5
6	37	26.9	15.8
8	20.8	35.8	21.1
10	13.3	44.8	26.3
12	9.24	53.8	31.6
(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	487.12	11.70	11.70
0-30	1038.56	25.00	25.00
0-40	1713.21	41.30	41.30
0-60	3120.28	75.20	75.10
0-80	4019.64	96.80	96.80
0-90	4113.28	99.10	99.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4035	3653	3089
55	4287	3739	2898
65	4497	3894	2675
75	3543	3710	2393
85	2038	2453	2050

Lumens Per Zone

Zone	Lumens
0-10	125.83
10-20	361.29
20-30	551.44
30-40	674.65
40-50	721.07
50-60	686.01
60-70	564.25
70-80	335.10
80-90	93.64

Candela Tabulation

0	0	0
0	1330.255	0
5	1330.660	5
15	1303.500	15
25	1251.300	25
35	1170.080	35
45	1061.250	45
55	914.610	55
65	706.840	65
75	341.060	75
85	66.070	85
90	6.630	90

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%	50%	30%	10%	50%	30%	10%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	101	101	101	99	99	99
1	108	103	98	94	94	105	101	96	93	96	93	90	92	89	87	88	86	86	86	84	82	82	82	82
2	98	89	82	76	76	95	87	81	75	83	78	73	80	75	71	77	73	73	73	69	67	67	67	67
3	89	78	69	62	62	86	76	68	62	73	66	61	70	64	59	67	62	62	62	58	56	56	56	56
4	81	69	59	53	53	79	67	59	52	65	57	51	62	56	50	60	54	50	50	47	41	41	41	41
5	74	61	52	45	45	72	60	51	45	58	50	44	55	49	43	53	48	43	43	42	37	35	35	35
6	69	55	46	39	39	67	54	45	39	52	44	38	50	43	38	48	42	42	42	37	35	35	35	35
7	63	50	41	34	34	62	49	40	34	47	39	34	45	39	33	44	38	38	38	33	31	31	31	31
8	59	45	36	30	30	57	44	36	30	43	35	30	42	35	30	40	34	34	34	30	28	28	28	28
9	55	41	33	27	27	54	41	33	27	40	32	27	38	32	27	37	31	31	31	27	25	25	25	25
10	52	38	30	25	25	50	38	30	25	37	29	24	35	29	24	35	28	28	28	24	22	22	22	22

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

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

INPUT WATTS: **41.8**

LUMENS: **5076**

CRI: **85**

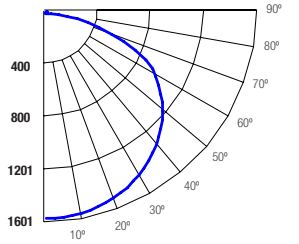
EFFICACY: **121**

CCT: **4000K**

TEST NO.: **EL111801**

SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Cone of Light			
2	400	9.2	5.4
4	100	18.4	10.7
6	44.5	27.5	16.1
8	25	36.7	21.4
10	16	45.9	26.8
12	11.1	55.1	32.1
(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	587.06	11.60	11.60
0-30	1252.98	24.70	24.70
0-40	2069.65	40.80	40.80
0-60	3777.02	74.40	74.40
0-80	4896.02	96.50	96.50
0-90	5026.00	99.00	99.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4833	4188	3717
55	5149	4204	3497
65	5466	4298	3237
75	4470	4385	2899
85	3074	3504	2491

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

TEST NO.: **EL1018122**

INPUT WATTS: **52.6**

LUMENS: **6147**

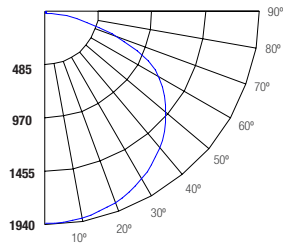
CRI: **85**

EFFICACY: **117**

CCT: **4000K**

SPACING CRITERIA: **1.42**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	711.28	N.A.	11.60
0-30	1518.14	N.A.	24.70
0-40	2507.83	N.A.	40.80
0-60	4574.5	N.A.	74.40
0-80	5928.75	N.A.	96.50
0-90	6086.31	N.A.	99.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	4506	5052	5878
55	4243	5053	6260
65	3933	5145	6619
75	3541	5274	5297
85	3123	4177	3519

Lumens Per Zone

Zone	Lumens
0-10	183.58
10-20	527.70
20-30	806.86
30-40	989.69
40-50	1058.26
50-60	1008.41
60-70	839.43
70-80	514.82
80-90	157.55

Candela Tabulation

Q	
0	1939.331
5	1926.061
15	1834.463
25	1669.228
35	1445.816
45	1185.260
55	905.311
65	618.301
75	340.924
85	101.253
90	21.176

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light			
2	485	5.4	9.2
4	121	10.8	18.4
6	53.9	16.2	27.5
8	30.3	21.7	36.7
10	19.4	27.1	45.9
12	13.5	32.5	55.1
BEAM DIA. MEASURED AT 50% OF NADIR F.C.			
(F.T.) Distance to Plane	(F.C.) Initial Footcandle at Nadir	(F.T.) Beam Vert. Spread	(F.T.) Beam Horiz. Spread

	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	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	92	89	92	89	86	88	86	84	81			
	2	97	89	82	75	95	87	80	74	83	77	73	80	75	71	76	72	69	67			
	3	88	77	69	62	86	76	68	61	73	66	60	64	59	67	62	58	56	56			
	4	81	68	59	52	78	67	58	52	64	57	51	62	55	50	59	54	49	47			
	5	74	61	51	45	72	60	51	44	57	50	44	55	48	43	53	47	42	40			
	6	68	55	45	39	66	53	45	38	52	44	38	50	43	38	48	42	37	35			
	7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31			
	8	59	45	36	30	57	44	36	30	43	35	30	41	35	30	40	34	29	27			
	9	55	41	33	27	53	40	32	27	39	32	27	38	31	27	37	31	26	24			
	10	51	38	30	24	50	37	30	24	36	29	24	35	29	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 by EnOcean	LUTRON	enlighted	LEVITON®	OSRAM	PHILIPS EasySense	legrand®
CONTROL UNIT	❑ LEDRU LED Relay Zone Controller 0-10V ¹	❑ FCJS-0-10 Lutron Vive 0-10V Individual Control Models ¹⁴	❑ CU-4E-FMH Fixture Mount Control Unit ¹⁵	❑ ZL027 –NOW Intellect Power Control Module ¹⁶	❑ EN-WCM2-ZB-DR Wireless Control Module ¹⁷	❑ XITANIUM SR LED DRIVER The Philips Advance Xitanium SR LED driver ¹⁸	❑ LMFC-011 ON/OFF/0-10V dimming fixture controller ¹⁹
	❑ LEDDU LED Zone Controller 0-10V ¹	❑ FCJS-ECO Lutron Vive Eco-system Individual Control Models ¹⁴		❑ ZL027 –DLE Intellect Power Control Module ¹⁶	❑ EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷		❑ FS-PP-V2 FS-PP Fixture Integrated Sensor Power Pack ¹⁹
INTEGRAT OCCUPANCY& DAYLIGHT SENSOR	N/A	❑ DFCSJ-OEM-OCC Clear Connect (RF) and Occupancy/ Daylight Sensing ²	❑ SU-5E-IoT IoT Node Micro Sensor ❑ SU-5E-CL Connected Micro Sensor ❑ SU-5E-IL Independent Micro Sensor ❑ SU-5S-H(IoT/CL/IL) Serface Mount Sensor (Must be Specified with CU- 4E-FMH Control Unit) ²	❑ ZL00J -TOW Intellect Intelligent Fixture Control System ²	❑ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor	❑ SNS200 SNS200 for grouping ²	❑ FD-301 Fixture integrated Daylight Dimming Sensor ²
			❑ ZL00J-DOW Intellect Intelligent Fixture Control System ²	❑ ZBHA- CLM-DIM-ENC Connected Lighting Module DIM ²	❑ SNS300 SNS300 for networks ²	❑ FS-205 Fixture integrated passive infrared occupancy sensor ²	
*WIRELESS OCCUPANCY SENSOR	❑ EOSCU-W-EO Occupancy Sensor - Ceiling Mounted ³	❑ LRF2-OCR2B-P-WH Ceiling mount360° ,occupancy/vacancy sensor ³	N/A	N/A	❑ EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	N/A	❑ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	❑ ELLSU-W-EO Light Level Sensor - Ceiling Mounted ³	❑ LRF2-DCRB-WH Ceiling-mount daylight sensor ³	N/A	N/A	❑ EN-SCPPH- 1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors ³	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 ❑ SU-5E-CL Connected Micro Sensor ❑ SU-5E-IL Independent Micro Sensor ❑ SU-5S-H(IoT/CL/IL) Serface Mount Sensor (Must be specified with CU- 4E-FMH Control Unit) ³	❑ ZL00J -TOW Intellect Intelligent Fixture Control System ❑ ZL00J-DOW Intellect Intelligent Fixture Control System (Must be specified with ZL027-NOW and ZL00J- DOW Control unit) ³	❑ EN-CLM- PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ❑ 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	❑ SNS200-CMP SNS-200 for Grouping ³	N/A
ACCESORIES	N/A	N/A	❑ TMC-SU-5E Tile Mount Carrier ❑ CBL-5E-CU4-30N 30 linch Sensor cable for CU-4 and IoT Ready ❑ 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 compatiable with philips field and wireless switch	9- Luminaire will be compatible with DLM Room control system LMPB-100. . Sensors must be orderd through Legrand.