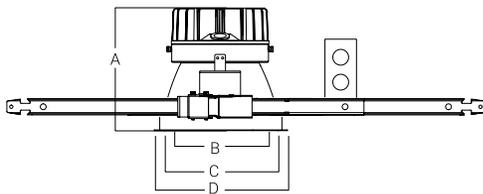
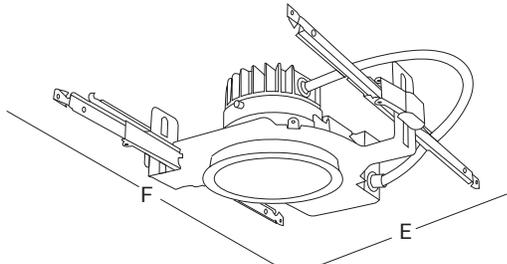




REFLECTOR/
TRIM COLOR



A: Height = 5-3/4"
B: Trim Aperture = 5"
C: Cut-Out = 5-1/2"
D: Trim Outside Dia = 6-3/8"
E: Width = 10"
F: Length = 18-1/8"

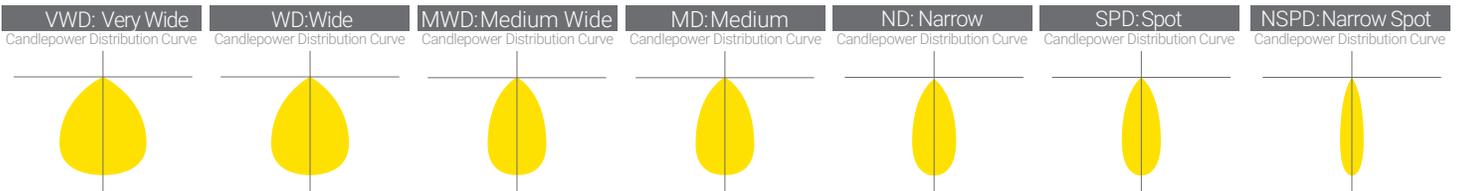
NOMINAL LUMENS	WATTAGE
1200	25 W
900	18 W

Based on 3000K, 90+CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

DYNAMIC PLATFORM

SMART DIM - Dims to Warm with Smart Dim technology simulates traditional incandescent halogen lighting through dimming, while providing the energy efficiency, high performance and longevity of LED luminaires. When the luminaire dims to warm, it makes a smooth transition across the black body radiator curve. Starting with a 100% lumen output at 3000K, down to a 1% lumen output at 1800K, and maintaining a constant CRI of 90+. It results in rich amber tones as the light dims, encouraging relaxation. An ideal source for hospitality, residential, and assisted living applications.

LUMENS	900, 1200
DIMS TO WARM PLATFORMS	100% lumen output at 3000K, down to a 1% lumen output at 1800K
CRI	90+ Standard
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTIONS	VWD, WD, MWD, MD, ND, SPD, NSPD
TRIM OPTIONS	Downlight, Wall Wash, Double Wall Wash, Wet Location
REFLECTOR COLORS	CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WT (Wheat), WH (White), MB (Black)
FLANGE COLORS	Self-flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), BK(Black)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, DIMTR, ELD010-.1, ELD0DALI-.1 ELDODMX-.1
EMERGENCY	10W - Up to 1000L Output (Bodine BSL310) 20W - Up to 2000L Output (Bodine BSL20)
LIFETIME	L70 at 102,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21



Reference IES files for additional distribution curve information.





FEATURES

A highly sustainable and ultra-efficient architectural LED downlight that provides even, glare-free illumination. Available in a range of finishes, distributions, and lumen packages, it is ideally suited for use in corporate office space, hospitality, healthcare, commercial, academic, churches and retail.

OPTICS AND REFLECTOR

The reflector has a 45° visual cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. Spun from 0.05" thick aluminum, with a 1-step anodized finish, and available in different colors or custom RAL finishes. Reflector flange options include self-flanged and white painted flange. Various distribution options are available, and all optics are field changeable.

THERMAL MANAGEMENT SYSTEM

Passive cooling Diecast Aluminum Heat Sink, LED light engine and driver are replaceable, upgradeable, and can be accessed from below the ceiling. The consistency in the quality of light is delivered with precision performance by the use of a unique locking mechanism that aligns the reflector with the light engine.

MOUNTING FRAME & BRACKET

The downlight mounting frame is a fabricated assembly constructed of 16-gauge steel, with C-channel mounting brackets, included. The versatility of the mounting bracket allows for an adjustability of up to 28" horizontally, and 2-3/4" vertically, locking into place. With the added die-formed construction of the mounting frame, it provides maximum heat dissipation and rust protection.

DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V input, produces less than 20%THD, has a power factor between 90% and 100%, and is thermally protected for additional safety. Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

DIMMING & DRIVER INFORMATION

- DIM10** - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard.
 - DIMTR** - Triac & Electronic low voltage dimming.
 - LUTH** - Lutron LDE1 Hi-Lume Eco System. 1% dimming with Soft in Fade to Black dimming technology.
 - ELD010.1** - 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.

WARRANTY

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

LISTINGS

- c-UL-us - Listed for Wet Location if used with HH5-5501 Trim.
- c-UL-us - Listed for Feed Through Wiring.

U.S Patent No. - D685,118S



Example: **HH5-LED-WDM-30K-18K-900L-DIM10-120-MD-90-HH5-5501-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE		EMERGENCY	TRIM TYPE	REFLECTOR/TRIM- FINISH
HH5-LED-WDM-30K-18K	<input type="checkbox"/> 900L <input type="checkbox"/> 1200L	<input type="checkbox"/> DIMTR ¹ <input type="checkbox"/> DIM10 <input type="checkbox"/> LUTH ² <input type="checkbox"/> ELDO10-.1 ² <input type="checkbox"/> ELDODALI-.1 ² <input type="checkbox"/> ELDODMX-.1 ²	<input type="checkbox"/> 120 <input type="checkbox"/> 277 <input type="checkbox"/> MVOLT		<input type="checkbox"/> EMG-LED-10W <input type="checkbox"/> EMG-LED-20W Typical lumen output of the luminaire is up to 1000L with EMG-LED-10W option & 2000L with EMG-LED-20W option in emergency mode. Contact the factory for details. Remote mounted installation	<input type="checkbox"/> HH5-5501 Flanged Downlight <input type="checkbox"/> HH5-5507 Flanged Wall Wash <input type="checkbox"/> HH5-5577 Flanged Double Wall Wash	<input type="checkbox"/> CL-WH <input type="checkbox"/> CL-SCH <input type="checkbox"/> SHZ-WH <input type="checkbox"/> SHZ-SHZ <input type="checkbox"/> WT-WH <input type="checkbox"/> WH-WH <input type="checkbox"/> MB-WH <input type="checkbox"/> CL-BK <input type="checkbox"/> MB-BK
			<input type="checkbox"/> VWD 70° <input type="checkbox"/> WD 60° <input type="checkbox"/> MWD 52° <input type="checkbox"/> MD 36° <input type="checkbox"/> ND 30° <input type="checkbox"/> SPD 24° <input type="checkbox"/> NSPD 15°	<input type="checkbox"/> 90+	<input type="checkbox"/> CP (Chicago Plenum)	<input type="checkbox"/> HH5-TL-5501 Trimless Downlight- <input type="checkbox"/> HH5-TL-5507 Trimless Wall Wash	<input type="checkbox"/> SHZ <input type="checkbox"/> CL

¹ DIMTR is available in 120V only

² LUTH, ELDO10-.1, ELDODALI-.1, and ELDODMX-.1 are available in 120V and 277V

-Reference last page for Control Options



HH5-LED-WDM-30K-18K-900L-DIM10-MVOLT-ND-40K-90-HH5-5501-CL-WH

TEST NO.: **EL1218161**

INPUT WATTS: **11.6**

LUMENS: **975**

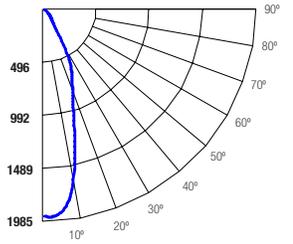
CRI: **90**

EFFICACY: **84**

CCT: **4000K**

SPACING CRITERIA: **0.66**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	499.32	N.A.	51.20
0-30	776.98	N.A.	79.70
0-40	896.23	N.A.	91.90
0-60	968.47	N.A.	99.30
0-80	974.55	N.A.	99.90
0-90	975.13	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	6607	7386	11844
55	1262	2506	3152
65	465	618	1657
75	222	348	478
85	82	714	889

Lumens Per Zone

Zone	Lumens
0-10	169.42
10-20	329.90
20-30	277.66
30-40	119.25
40-50	56.44
50-60	15.81
60-70	4.86
70-80	1.23
80-90	0.58

Candela Tabulation

0	0	5	15	25	35	45	55	65	75	85	90
0	1971.309										
5	1944.104										
15	1143.866										
25	633.443										
35	137.778										
45	57.359										
55	8.889										
65	2.411										
75	0.706										
85	0.088										
90	0.029										

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%	0%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	102	100	100		
1	114	111	109	107	111	109	107	105	103	105	103	102	101	100	99	98	97	96	95	94	94	94		
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	92	90	89	89	89		
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	87	85	83	83	83		
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	82	80	79	79	79		
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	78	75	74	74	74		
6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	74	71	70	70	70		
7	87	78	73	69	86	78	73	69	76	72	68	75	71	68	74	71	68	66	66	66	66	66		
8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63	63	63	63	63		
9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	61	61	61	61	61		
10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	59	59	59	59	59	59		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light

Beam Dia.	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread
2	493	1.3	1.3
4	123	2.6	2.6
6	54.8	3.8	3.9
8	30.8	5.1	5.2
10	19.7	6.4	6.4
12	13.7	7.7	7.7

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

HH5-LED-WDM-30K-18K-900L-DIM10-MVOLT-MD-40K-90-HH5-5501-CL-WH

TEST NO.: **EL1218160**

INPUT WATTS: **11.6**

LUMENS: **942**

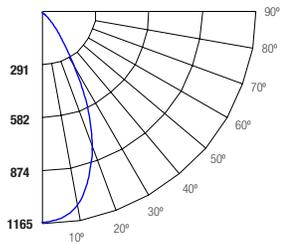
CRI: **90**

EFFICACY: **81**

CCT: **4000K**

SPACING CRITERIA: **0.82**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	378.70	N.A.	40.20
0-30	666.06	N.A.	70.70
0-40	837.76	N.A.	89.00
0-60	934.45	N.A.	99.20
0-80	940.98	N.A.	99.90
0-90	941.53	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	8473	10082	14960
55	1381	3087	3669
65	476	646	1893
75	225	358	472
85	82	660	806

Lumens Per Zone

Zone	Lumens
0-10	107.65
10-20	271.05
20-30	287.37
30-40	171.69
40-50	78.13
50-60	18.57
60-70	5.28
70-80	1.25
80-90	0.55

Candela Tabulation

0	0	5	15	25	35	45	55	65	75	85	90
0	1164.936										
5	1150.422										
15	983.009										
25	629.924										
35	229.320										
45	73.559										
55	9.722										
65	2.470										
75	0.715										
85	0.088										
90	0.020										

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%	0%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	102	100	100		
1	113	111	108	106	111	108	106	104	104	103	103	101	101	101	99	98	97	96	95	95	94	94		
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87	87	87	87	87		
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81	81	81	81	81		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75	75	75	75	75		
5	92	84	78	74	90	83	77	73	81	76	73	79	75	72	78	74	71	70	70	70	70	70		
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65	65	65	65	65		
7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	62	62	62	62	62		
8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57	57	57	57	57		
9	75	66	60	56	74	65	60	56	64	59	56	64	59	55	63	58	55	54	54	54	54	54		
10	72	62	57	53	71	62	56	53	61	56	52	60	56	52	60	55	52	52	52	52	52	52		

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

Cone of Light

Beam Dia.	(FC) Initial Footcandle at Nadir	(FT) Beam Vert. Spread	(FT) Beam Horiz. Spread
2	291	2	2
4	72.8	4	3.9
6	32.4	6	5.9
8	18.2	8	7.9
10	11.6	10	9.8
12	8.09	12	11.8

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

HH5-LED-WDM-30K-18K-900L-DIM10-MVOLT-WD-40K-90-HH5-5501-CL-WH

TEST NO.: **EL1218159**

INPUT WATTS: **11.7**

LUMENS: **891**

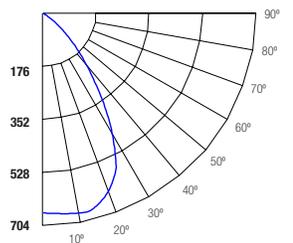
CRI: **90**

EFFICACY: **76**

CCT: **4000K**

SPACING CRITERIA: **1.04**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	259.90	N.A.	29.20
0-30	527.71	N.A.	59.20
0-40	752.03	N.A.	84.40
0-60	883.12	N.A.	99.10
0-80	890.69	N.A.	99.90
0-90	891.25	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	11387	14677	17337
55	1610	4018	4512
65	521	722	2282
75	240	370	487
85	82	641	815

Lumens Per Zone

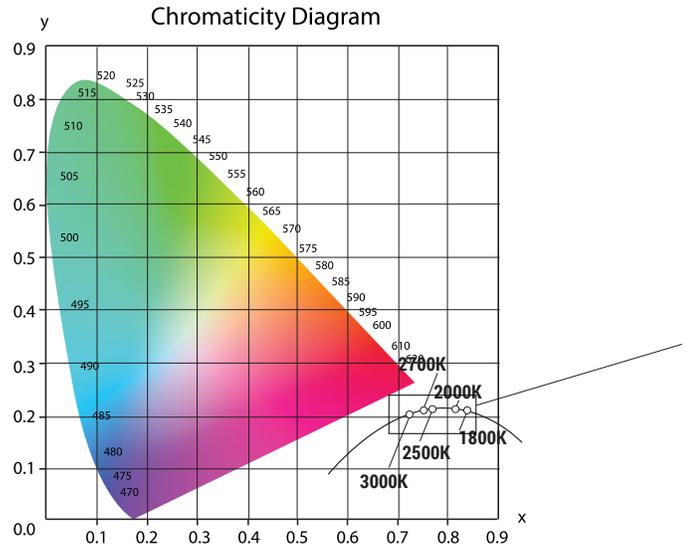
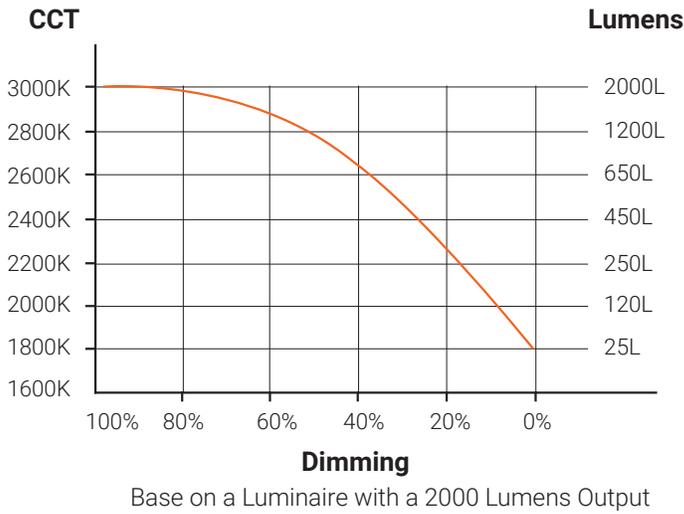
Zone	Lumens
0-10	66.23
10-20	193.67
20-30	267.81
30-40	224.32
40-50	107.54
50-60	23.55
60-70	6.22
70-80	1.34
80-90	0.57

Candela Tabulation

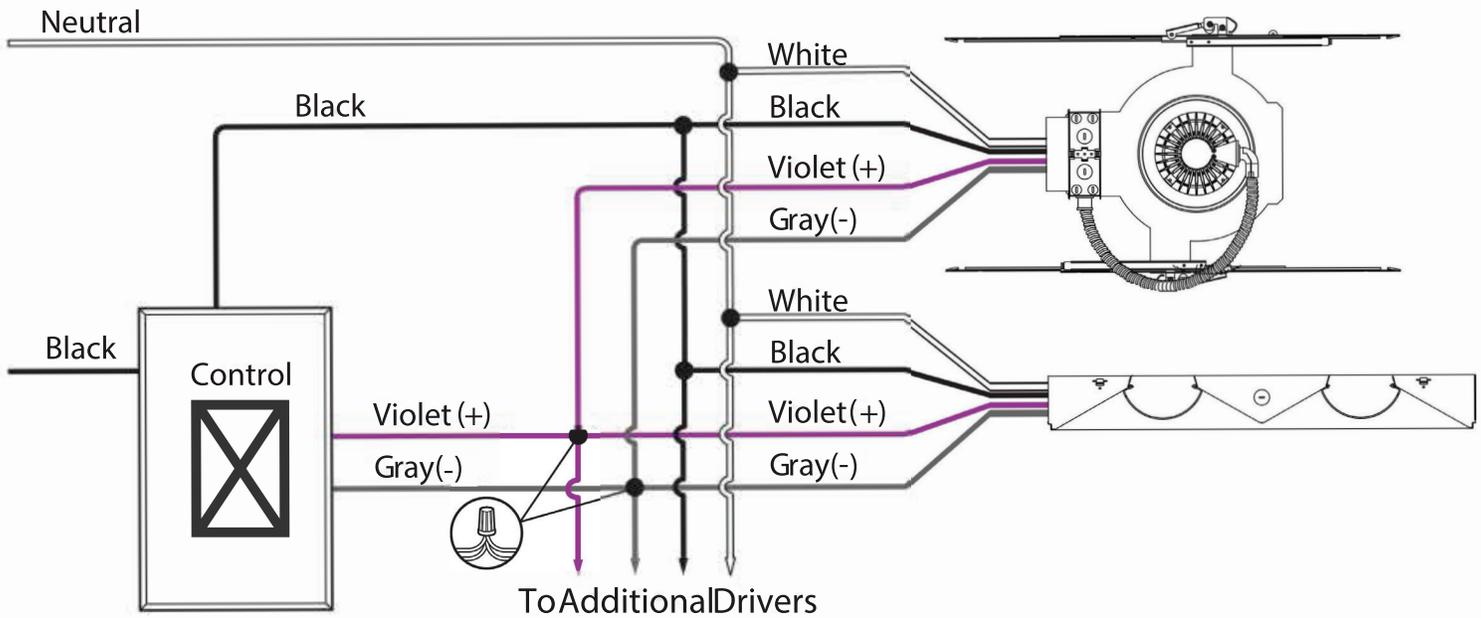
0	0	5	15	25	35	45	55	65	75	85	90
0	690.253										
5	694.271										
15	698.779										
25	592.949										
35	341.197										
45	98.853										
55	11.339										
65	2.705										
75	0.764										
85	0.088										
90	0.039										

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%	0%		
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116</																



WDM-30K-18K



- 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-010 Lutron Vive 0-10V Individual Pow Pak (Luminaire is shipped Vive Enabled) 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"/> SBR -BS Titanium SR Bridge 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 Pow Pak (Luminaire is shipped Vive Enabled) ¹⁴		<input type="checkbox"/> ZL027 -NOW Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷		
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	<input type="checkbox"/> 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	<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 (Must be specified with LEDRU or LEDDU control unit) ³	N/A	N/A	N/A	N/A	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 ³ <input type="checkbox"/> SU-5E-CL Connected Lighting Micro Sensor ³ <input type="checkbox"/> SU-5E-IL Independent Lighting / Enlighted One Micro Sensor ³ <input type="checkbox"/> SU-5S-H-(IoT/CL/IL) Surface Mount Sensor ³ (Must be specified with CU- 4E-FMH Control Unit)	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System ³ (Must be specified with ZL027 -NOW Control Unit)	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor <input type="checkbox"/> 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)	<input type="checkbox"/> SNS200- CMP SNS200 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™ drivers <input type="checkbox"/> 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 ordered through Legrand.