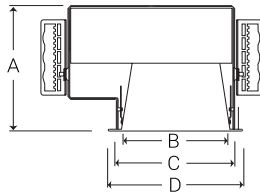
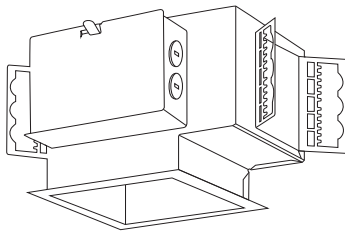


REFLECTOR/
FLANGE COLORS



A: Height = 5-1/2"
B: Trim Aperture = 4-1/2"
C: Cut-Out = 5-1/8"
D: Trim Outside Dia = 5-3/4"

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
2000	1995	29 W
1500	1473	22 W
1200	1203	18 W
900	910	14W

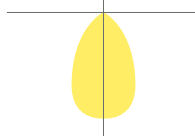
Based on 3000K, 90+CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

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, 1500, 2000
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	MD (Medium Distribution)
TRIM OPTIONS	Downlight, 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, ELDO10-1, ELDODALI-1 ELDODMX-1
EMERGENCY	10W - Up to 1000L Output 20W - Up to 2000L Output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory)
LIFETIME	L70 at 102,000 Hours
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

MD: Medium
Candlepower Distribution Curve



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 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° cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. It is spun from 0.05" thick aluminum, has a 1-step anodized finish, and is available in different colors or custom RAL finishes. Reflector trim options include self-flanged and white painted flange.

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

Constructed from 16 gauge steel. Can be installed with 3/4" or 1-1/2" lathing channel, 1/2" EMT, or with optional C-channel mounting bars (Part# BP31) ordered separately. Housing can be adjusted from the inside of the ceiling.

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.

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.

WARRANTY

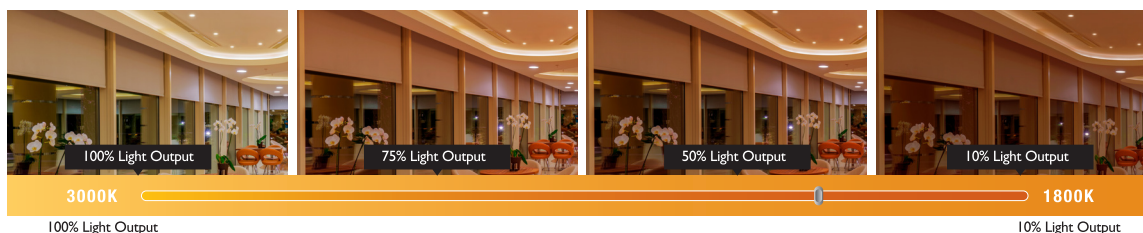
Five-year warranty for parts and components. (Labor not included)

LISTINGS

c-UL-us - Listed for Wet Location.

c-UL-us - Listed for Feed Through Wiring.

U.S Patent No. - D685,118S



Example: **HH4SQ-LED-WDM-30K-18K-900L-DIM10-120-MD-90-LED-4607-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE		EMERGENCY	TRIM TYPE	REFLECTOR/TRIM- FINISH						
HH4SQ-LED-WDM-30K-18K	<input type="checkbox"/> 900L <input type="checkbox"/> 1200L <input type="checkbox"/> 1500L <input type="checkbox"/> 2000L	<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 <input type="checkbox"/> INTG-EMG-LED-10W <input type="checkbox"/> INTG-EMG-LED-20W <input type="checkbox"/> EMG-LED-G2-10W-SDT* 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 *Consult Factory for Self Diagnostic	<input type="checkbox"/> LED-4607 <input type="checkbox"/> LED-4614 <input type="checkbox"/> LED-4615	<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						
							<table><tr><th>OPTICS</th><th>CRI</th></tr><tr><td><input type="checkbox"/> MD</td><td><input type="checkbox"/> 90+</td></tr></table>	OPTICS	CRI	<input type="checkbox"/> MD	<input type="checkbox"/> 90+		<table><tr><th>TRIMLESS</th><th>TRIMLESS FINISH</th></tr><tr><td><input type="checkbox"/> HH4SQTL-4607 <input type="checkbox"/> HH4SQTL-4614 <input type="checkbox"/> HH4SQTL-4615</td><td><input type="checkbox"/> SHZ <input type="checkbox"/> CL</td></tr></table>
OPTICS	CRI												
<input type="checkbox"/> MD	<input type="checkbox"/> 90+												
TRIMLESS	TRIMLESS FINISH												
<input type="checkbox"/> HH4SQTL-4607 <input type="checkbox"/> HH4SQTL-4614 <input type="checkbox"/> HH4SQTL-4615	<input type="checkbox"/> SHZ <input type="checkbox"/> CL												

¹ DIMTR is available in 120V only

-Reference last page for Control Options

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



HH4SQ-LED-WDM-30K-18K-900L-DIM10-MVOLT-MD-40K-90-LED-4607-CL-WH

TEST NO.: **EL011933**

INPUT WATTS: **11.3**

LUMENS: **860**

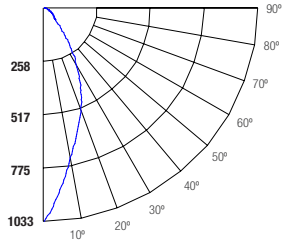
CRI: **90**

EFFICACY: **76**

CCT: **4000K**

SPACING CRITERIA: **0.92**

Candle Power Distribution (Candelas)



Cone of Light			
Beam Dia.	2"	4"	6"
2	220	2.1	1.8
4	55	4.2	3.6
6	24.4	6.4	5.4
8	13.8	8.5	7.3
10	8.8	10.6	9.1
12	6.11	12.7	10.9
BEAM DIA. MEASURED AT 50% OF NADIR F.C.			

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	281.18	N.A.	32.70
0-30	518.04	N.A.	60.20
0-40	687.43	N.A.	79.90
0-60	822.14	N.A.	95.60
0-80	856.69	N.A.	99.60
0-90	859.83	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	8724	18656	28746
55	6961	11163	13443
65	3362	9755	11999
75	1072	7398	10927
85	227	7059	11274

Lumens Per Zone

Zone	Lumens
0-10	80.80
10-20	200.38
20-30	236.85
30-40	169.39
40-50	90.38
50-60	44.33
60-70	24.46
70-80	10.09
80-90	3.14

Candela Tabulation

Q	
0	880.14
5	890.75
15	696.52
25	548.83
35	114.04
45	62.47
55	40.43
65	14.39
75	2.81
85	0.20
90	0.09

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%	0%			
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	102	102	102	100		
	1	112	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	95	93	91		
	2	106	100	96	92	104	99	94	91	95	92	89	87	89	87	89	87	87	85	83		
	3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76	76		
	4	94	85	79	74	92	84	78	74	82	77	73	76	72	72	74	70	71	70	70		
	5	89	79	73	68	87	78	72	67	76	71	67	75	70	66	73	69	66	64	64		
	6	84	74	67	62	82	73	67	62	71	66	62	70	65	61	68	64	61	59	59		
	7	79	69	62	57	78	68	62	57	67	61	57	65	60	57	64	60	56	55	55		
	8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51	51		
	9	71	61	54	50	70	60	54	50	59	53	49	58	53	49	57	53	49	48	48		
10	68	57	51	47	66	57	51	46	56	50	46	55	50	46	54	49	46	45	45			

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HH4SQ-LED-WDM-30K-18K-900L-DIM10-MVOLT-MD-40K-90-LED-4614-CL-WH

TEST NO.: **EL011932**

INPUT WATTS: **11.3**

LUMENS: **894**

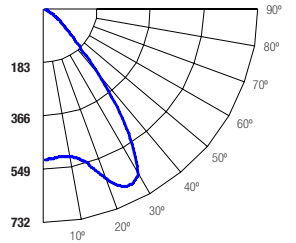
CRI: **90**

EFFICACY: **79**

CCT: **4000K**

SPACING CRITERIA: **1.24**

Candle Power Distribution (Candelas)



Cone of Light			
Beam Dia.	2"	4"	6"
2	125	2.5	2.8
4	31.2	5	5.5
6	13.9	7.5	8.3
8	7.8	10.1	11
10	4.99	12.6	13.8
12	3.47	15.1	16.6
BEAM DIA. MEASURED AT 50% OF NADIR F.C.			

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	199.67	N.A.	22.30
0-30	464.44	N.A.	52.00
0-40	705.54	N.A.	79.00
0-60	880.40	N.A.	98.50
0-80	892.85	N.A.	99.90
0-90	893.59	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	14719	22980	25867
55	3662	6353	11924
65	601	1192	5776
75	385	652	740
85	363	940	1054

Lumens Per Zone

Zone	Lumens
0-10	47.24
10-20	152.43
20-30	264.77
30-40	241.10
40-50	131.29
50-60	43.57
60-70	10.75
70-80	1.70
80-90	0.74

Candela Tabulation

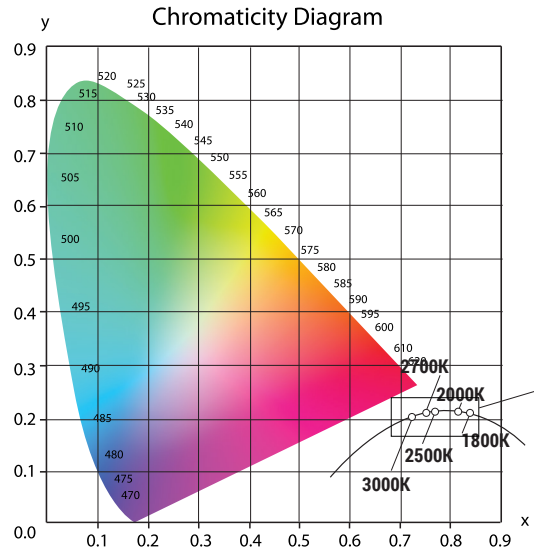
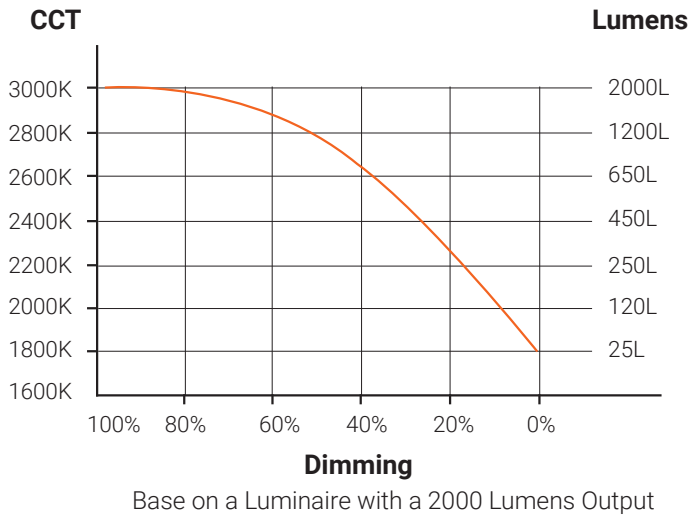
Q	
0	499.26
5	491.18
15	573.25
25	518.62
35	199.45
45	105.40
55	21.27
65	2.57
75	1.01
85	0.32
90	0.06

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

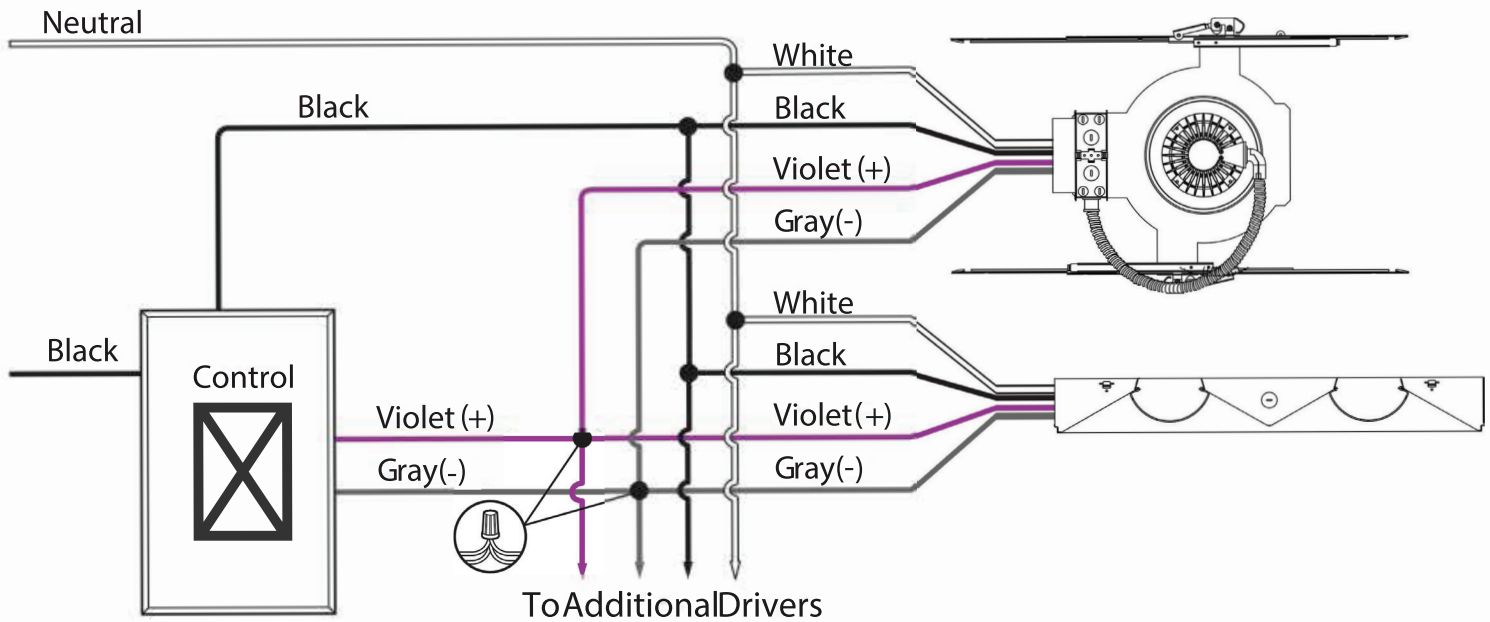
	RC	80%				70%				50%				30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
	1	113	109	106	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	
	2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83	
	3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	75	
	4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68	
	5	87	77	70	65	85	76	70	65	74	69	64	73	68	64	71	67	63	62	
	6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56	
	7	77	66	59	54	75	65	58	54	64	58	53	62	57	53	61	56	53	51	
	8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47	
	9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43	
	10	64	53	46	42	63	52	46	42	51	46	42	51	45	41	50	45	41	40	

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance



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 (Luminare is shipped Vive Enabled) ¹⁴	<input type="checkbox"/> CU-4E-FMH Fixture Mount Control Unit ¹⁵	<input type="checkbox"/> ZLO27 -NOW Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN-WCM2-ZB-DR Wireless Control Module ¹⁷	<input type="checkbox"/> SBR -BS Xitanium 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 (Luminare is shipped Vive Enabled) ¹⁴		<input type="checkbox"/> ZLO27 -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-EO 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-EO 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"/> ZLO0J -TOW Intellect Intelligent Fixture Control System ³ (Must be specified with ZLO27 -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 mount360° 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.