MAXILUME ARCHITECTURAL LIGHTING
By Elite Lighting

HH6IC-LED

6" Architectural High Lumen LED Downlight - IC Rated

6"

HH6-6501
Flanged Downlight

HH6-6507
Flanged Wall Wash

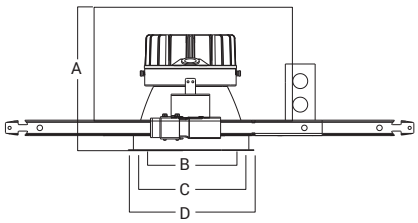
HH6-6577
Flanged Double Wall Wash

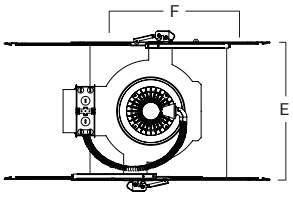
HH6-TL-6501
Trimless Downlight

HH6-TL-6507
Trimless Wall Wash

REFLECTOR/ FLANGE COLORS

CL-WH | CL-SCH | SHZ-WH | SHZ-SHZ | WT-WH | W-WH | MB-WH | CL-BK | MB-BK





A: Height = 9-5/8"
B: Trim Aperture = 6"
C: Cut-Out = 6-1/2"
D: Trim Outside Dia = 7-7/8"
E: Width = 16-5/8"
F: Length = 20-1/4"

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
2000	2252	22 W
1500	1785	20 W
1200	1422	16 W
900	1065	12 W
NOMINAL LUMENS (HP)	DELIVERED LUMENS (HP)	WATTAGE (HP)
1200	1398	12W
2000	2102	18W
3000	3259	28W

Based on 4000K, 90+CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

FEATURES

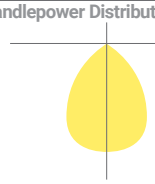
A highly sustainable and ultra-efficient architectural LED downlight that provides even, glare-free illumination. Available in a range of finishes, distributions, and lumen packages, it is ideally suited for use in corporate office space, hospitality, healthcare, commercial, academic, churches and retail.

OPTICS AND REFLECTOR

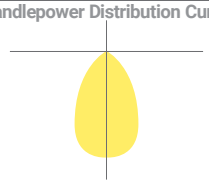
The reflector has a 45° visual cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. Spun from 0.05" thick aluminum, with a 1-step anodized finish, and available in different colors or custom RAL finishes. Reflector flange options include self-flanged and white painted flange.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

LUMENS	900, 1200, 1500, 2000 (Custom lumen packages available)
CCT & DYNAMIC PLATFORMS	22K, 27K, 30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White
CRI	90+ Standard, 98+ Optional
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTIONS	WD (Wide Distribution), MD (Medium Distribution) and ND (Narrow Distribution)
TRIM OPTIONS	Downlight, Wall Wash, Double Wall Wash, Wet Location
REFLECTOR COLORS	CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WT (Wheat), W (White), MB (Black). BZ (Bronze) WAM(White Anti Macrobial), Custom RAL
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, LUTFTB, ELDO10.1-LIN, ELDODMX.1, ELDODALI.1, DIMTR, BLE,POE,ELDO10-LOG, XSR, DIM10-AUX, DIM10-0-Off
EMERGENCY	10W - Up to 1000L Output (Bodine BSL310) 20W - Up to 2000L Output (Bodine BSL20) GTD-UL924
LIFETIME	L70>60,000-hour reported lifetime L70>250,000-hour calculated lifetime
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

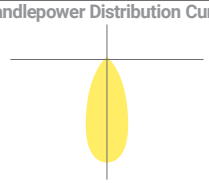
WD: Wide
Candlepower Distribution Curve



MD: Medium
Candlepower Distribution Curve



ND: Narrow
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.
RS190627/NS190711/ BB190711/AS210316

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 & BRACKETS

Housing is designed for IC and NON-IC rated installations with direct contact to insulation. The die-formed construction allows for heat dissipation and rust protection and can be installed in 2" x 8" joist construction.

DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V, also available in 347V 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. Available in 120V, and up to 6000 lumens only.
LUTH - Lutron LDE1 Hi-Lume 1% Eco System LED driver with Soft-on, Fade to Black dimming technology.
LUTFB - Lutron PEQ0E Hi-Lume Premier 1% Eco System LED Driver with Soft-on, Fade to Black dimming technology. Available on all luminaires up to 1500 lumens.
ELDO10.1-LIN - EldoLED SoloDrive 0-10V. Dimming down to 0.1%. Linear dimming curve.
DALI - DALI DT6, DT8 dimming down to 1%.
ELDODMX - EldoLED PowerDrive dimming down to 0.1%.
BLE - Luminaires may be controlled, grouped, scheduled or placed in scenes and or zones Via Cassambi Bluetooth 4.0 App.
DIM10-0-OFF - Program DIM10-to OFF withlinear dimming curve 0.1%
ELDO10- LOG - ELDO10-LOG with logarithmic dimming curve.
POE - Power-over-Ethernet Depending on the PoE manufacturer selected, The Node will install the node in factory as either integral to the luminaire or as a remote module.
XSR - Xitanium SR Dimming
DIM10-AUX - 0-10V with Auxiliry power

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)

WARRANTY

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

LISTINGS

c-UL-us - Listed for Wet Location if used with HH6-6501 Trim.
c-UL-us - Listed for Feed Through Wiring.

U.S Patent No. - D685,118S
Energy Star and California Title 24 compliant
Optional Black color trim is not ENERGYSTAR certified and won't meet the requirement.

BAA- Buy American Act Compliant government procurement requirements under FAR, DFARS and DOT regulations.

Example: **HH6IC-LED-2000L-DIM10-MVOLT-MD-40K-90-HH6-6501-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE	CCT	EMERGENCY	TRIM TYPE	REFLECTOR/FLANGE COLORS
HH6IC-LED	❑ 900L ❑ 1200L ❑ 1500L ❑ 2000L	❑ DIM10 ❑ DIMTR [1] [5] ❑ LUTH [3] ❑ LUTFTB [4] ❑ ELDO10-.1-LIN ❑ ELDODALI-.1 ❑ ELDODMX-.1 ❑ BLE ❑ POE ❑ DIM10-0-OFF ❑ ELDO10-LOG ❑ XSR ❑ DIM10-AUX	❑ 120 ❑ 277 ❑ MVOLT ❑ 347 (DIM10 only)	❑ 22K ❑ 27K ❑ 30K ❑ 35K ❑ 40K ❑ 50K [3]	❑ EMG-LED-10W ❑ EMG-LED-20W ❑ GTD-UL924 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	❑ HH6-6501 Flanged Downlight ❑ HH6-6507 Flanged Wall Wash ❑ HH6-6577 Flanged Double Wall Wash ❑ HH6-6535 Polycarbonate non conductive with "Dead Front" construction ❑ HH6-6534 Polycarbonate "Dead Front" Trim with Polycarbonate ClearLens	❑ CL-WH ❑ CL-SCH ❑ SHZ-WH ❑ SHZ-SHZ ❑ WT-WH ❑ WH-WH ❑ MB-WH* ❑ CL-BK ❑ MB-BK* ❑ RAL ❑ WAM White Anti Macrobial
			OPTICS	**CRI**	**OPTIONS**	**TRIMLESS**	
			❑ WD ❑ MD ❑ ND	❑ 90+ ❑ 98+ [4] ❑ Xicato 95 [7]	❑ CP (Chicago Plenum) ❑ BAA ❑ Slopped Ceiling Adopter ❑ HP (High Performance) [6] ❑ Remote LED Driver Mounting	❑ HH6-TL-6501 Trimless Downlight ❑ HH6-TL-6507 Trimless Wall Wash	* Black color trim is not ENERGYSTAR certified

[1] **DIMTR** is available in 120V only
[2] **LUTH**, **ELDO10-.1**, **ELDODALI-.1**, and **ELDODMX-.1** are available in 120V and 277V
[3] **50K** series are available with 85+ CRI only
[4] **98+** CRI is available in 27K, 30K and 40K only
[5] **LUTFTB** Available for luminaires up to 1500L
-**Reference last page for Control Options**
[7] Available on 30K, 35K, 40K
[6] 3000, 3500K and 4000K based on 90CRI

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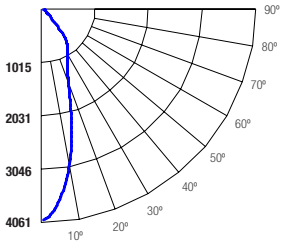
HH6IC-LED-2000L-DIM10-MVOLT-ND-40K-90-HH6-6501-CL-WH

TEST NO.: **EL1218120**

INPUT WATTS: **22.6** LUMENS: **2252** CRI: **90** EFFICACY: **100** CCT: **4000K** SPACING CRITERIA: **0.60**

Candle Power Distribution (Candelas)



Cone of Light			
2	1013	1.2	1.1
4	253	2.4	2.2
6	113	3.6	3.4
8	63.3	4.8	4.5
10	40.5	6	5.6
12	28.1	7.2	6.7
(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	946.09	42.00	42.00
0-30	1484.6	65.90	65.90
0-40	1982.43	88.00	88.00
0-60	2237.11	99.30	99.30
0-80	2250.88	100.00	100.00
0-90	2251.93	100.00	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	22917	25286	8443
55	4748	4403	3348
65	2366	1643	395
75	478	466	226
85	1068	993	113

Lumens Per Zone

Zone	Lumens
0-10	335.41
10-20	610.68
20-30	538.50
30-40	497.83
40-50	212.00
50-60	42.67
60-70	11.87
70-80	1.91
80-90	1.05

Candela Tabulation

0
0 4050.02
5 3930.80
15 2475.29
25 1275.54
35 756.75
45 295.88
55 49.72
65 18.26
75 2.26
85 1.70
90 1.42

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	111	108	106	111	109	106	104	104	103	101	101	99	98	97	96	95	93
	2	108	103	99	95	106	101	98	94	98	95	92	95	93	90	92	90	88	87
	3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	85	82	81
	4	97	90	84	80	95	88	83	79	86	82	78	84	80	77	82	79	77	75
	5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70
	6	88	79	73	68	86	78	72	68	76	71	68	75	71	67	74	70	67	65
	7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
	8	79	70	64	60	78	69	64	60	68	63	60	67	63	59	66	62	59	58
	9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
	10	72	63	57	53	71	62	57	53	62	57	53	61	56	53	60	56	53	51

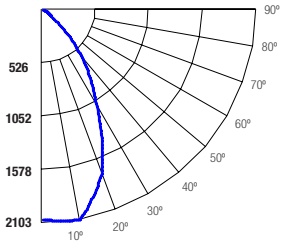
***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

HH6IC-LED-2000L-DIM10-MVOLT-MD-40K-90-HH6-6501-CL-WH

TEST NO.: **EL1218117**

INPUT WATTS: **22.9** LUMENS: **2168** CRI: **90** EFFICACY: **95** CCT: **4000K** SPACING CRITERIA: **0.94**

Candle Power Distribution (Candelas)



Cone of Light			
2	518	2.3	2.1
4	129	4.6	4.3
6	57.5	6.9	6.4
8	32.3	9.2	8.5
10	20.7	11.5	10.6
12	14.4	13.8	12.8
(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	730.90	33.70	33.70
0-30	1340.37	61.80	61.80
0-40	1833.96	84.60	84.60
0-60	2149.35	99.10	99.10
0-80	2167.32	100.00	100.00
0-90	2168.4	100.00	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	27035	27917	20189
55	8039	8246	4613
65	3879	1724	451
75	512	499	258
85	1056	961	132

Lumens Per Zone

Zone	Lumens
0-10	197.86
10-20	533.03
20-30	609.47
30-40	493.59
40-50	252.34
50-60	63.05
60-70	15.85
70-80	2.13
80-90	1.07

Candela Tabulation

0
0 2070.21
5 2089.36
15 1915.94
25 1396.23
35 824.47
45 349.04
55 84.19
65 29.93
75 2.42
85 1.68
90 1.31

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	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93
	2	107	102	97	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85
	3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	82	80	78
	4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
	5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67
	6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	70	66	63	62
	7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
	8	76	66	60	55	75	66	60	55	64	59	55	63	58	55	62	58	55	53
	9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50
	10	69	59	52	48	68	58	52	48	57	52	48	56	51	48	56	51	48	46

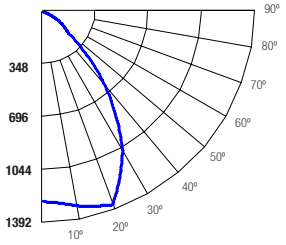
***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

HH6IC-LED-2000L-DIM10-MVOLT-WD-40K-90-HH6-6501-CL-WH

TEST NO.: **EL1218119**

INPUT WATTS: **22.7** LUMENS: **2013** CRI: **90** EFFICACY: **89** CCT: **4000K** SPACING CRITERIA: **1.12**

Candle Power Distribution (Candelas)



Cone of Light			
2	321	3.2	2.5
4	80.4	6.3	5.1
6	35.7	9.5	7.6
8	20.1	12.7	10.2
10	12.9	15.9	12.7
12	8.93	19	15.2
(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	508.85	25.30	25.30
0-30	1070.34	53.20	53.20
0-40	1572.53	78.10	78.10
0-60	1984.35	98.60	98.60
0-80	2011.89	99.90	100.00
0-90	2012.87	100.00	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	34227	31569	28671
55	16327	11637	7459
65	7624	2099	459
75	489	493	254
85	905	842	119

Lumens Per Zone

Zone	Lumens
0-10	124.96
10-20	383.89
20-30	561.49
30-40	502.19
40-50	306.35
50-60	105.48
60-70	25.31
70-80	2.23
80-90	0.98

Candela Tabulation

0
0 1285.86
5 1301.79
15 1363.38
25 1239.12
35 871.55
45 441.89
55 170.99
65 58.83
75 2.31
85 1.44
90 1.00

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	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
	2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
	3	99	92	86	82	97	91	85	81	88	83	80	85	82	78	83	80	77	75
	4	93	84	78	73	91	83	77	73	81	76	72	79	75	71	77	73	70	68
	5	87	78	71	66	86	77	70	66	75	69	65	73	68	65	72	67	64	62
	6	82	72	65	60	81	71	64	60	69	64	59	68	63	59	66	62	58	57
	7	77	67	60	55	76	66	59	55	64	59	54	63	58	54	62	57	54	52
	8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	49	48
	9	69	58	51	46	67	57	51	46	56	50	46	55	50	46	54	49	46	44
	10	65	54	47	43	64	53	47	43	52	47	43	52	46	42	51	46	42	41

***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.

1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated contol 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	NX LIGHTING CONTROLS	LUTRON	enlighted	LEVITON	ENCELIUM	PHILIPS EasySense	legrand® WA
CONTROL UNIT	❏ NXFM-1R2D-0-UNV NX Fixture Module, Offset, 1 Relay, 2 0-10V Dimming Channels, 120-347VAC, Blue	❏ FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) [14] ❏ FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) ❏ A-WN-D01-RF-WH Athena wireless node (RF only) (White) ❏ A-WN-D01-OCC-WH Athena wireless node with sensor (White)	❏ CU-4E-FMH Fixture Mount Control Unit [15]	❏ ZL027 –N0W Intellect Power Control Module [16] ❏ ZL027 –N0W Intellect Power Control Module [16]	❏ EN-WCM2-ZB-DR Wireless Control Module [17] ❏ EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module [17] ❏ ZBHA-CLM-DIM-ENC Connected Lighting Module DIM [17]	❏ SBR -BS Xitanium SR Bridge [18]	❏ LMFC-011 ON/OFF/0-10V dimming fixture controller [19]
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	❏ NXSMP2-SMI NX Slide Mount Indoor Sensor Module	N/A	N/A	N/A	N/A	N/A	❏ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor [3]
*WIRELESS DAYLIGHT SENSOR	❏ LUXSTATLS Luxstat Light Sensor for Luxstat Control Modules, 3 to 6000 FC	N/A	N/A	N/A	N/A	N/A	❏ LMLS-400 Single zone switching and dimming digital photosensor [3]
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	❏ NXSMDT Indoor Ceiling Mount Sensor - OMNI	N/A	❏ SU-5E-IoT IoT Node Micro Sensor [3] ❏ SU-5E-CL Connected Lighting Micro Sensor [3] ❏ SU-5E-IL Independent Lighting / Enlighted One Micro Sensor [3] ❏ SU-5S-H-(IoT/CL/IL) Surface Mount Sensor [3] **(Must be specified with CU-4E-FMH Control Unit)**	❏ ZL00J -T0W Intellect Intelligent Fixture Control System [3] **(Must be specified with ZL027 –N0W Control Unit)**	❏ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ❏ 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)**	❏ SNS200-CMP SNS200 for grouping [3]	N/A
ACCESORIES	N/A	N/A	❏ TMC-SU-5E Tile Mount Carrier ❏ CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT ReadyTM drivers ❏ CBL-5E-CU4-7F 7 foot Sensor Cable for CU-4 and IoT ReadyTM 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/va-cancy 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 compatiable with DLM Room control system LMPB-100. DLM control system must be orderd through Legrand.

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.