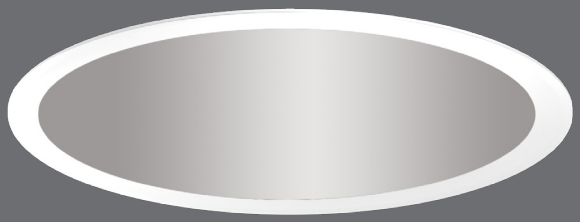
MAXILUME ARCHITECTURAL LIGHTING
By Elite Lighting

Dims to Warm **HHJ5-LED** 5”
5” Architectural High Lumen LED Downlight - Retrofit

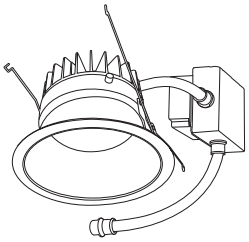


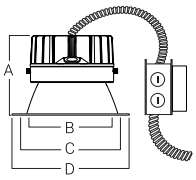
HH5-5501
Flanged Downlight

HH5-5507
Flanged Wall Wash

HH5-5577
Flanged Double Wall Wash

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”

NOMINAL LUMENS	WATTAGE
1200	25 W
900	18 W

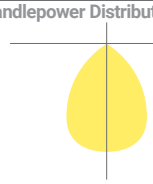
Based on 3000K, 90+CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

DYNAMIC PLATFORM

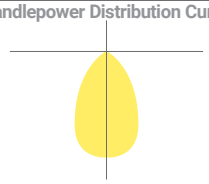
SMART DIM - Dims to Warm with Smart Dim technology simulates traditional incandescent halogen lighting through dimming, while providing the energy efficiency, high performance and longevity of LED luminaires. When the luminaire dims to warm, it makes a smooth transition across the black body radiator 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	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), 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, LUT2W, DIMTR, ELDO10-.1, ELDODALI-.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

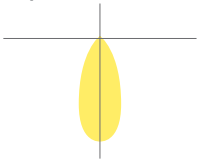
WD: Wide
Candlepower Distribution Curve



MD: Medium
Candlepower Distribution Curve



ND: Narrow
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.

c UL us LISTED
PROUDLY ASSEMBLED in AMERICA
SAMEDAY SHIPPING Consult with Factory
5 YEARS LIMITED WARRANTY

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

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
Designed for easy installation into an existing incandescent or CFL downlight mounting frame, converting the luminaire into an energy efficient LED downlight. Flex is designed to attach into the existing junction box, with additional brackets available for up to a 2-1/2” ceiling thickness.

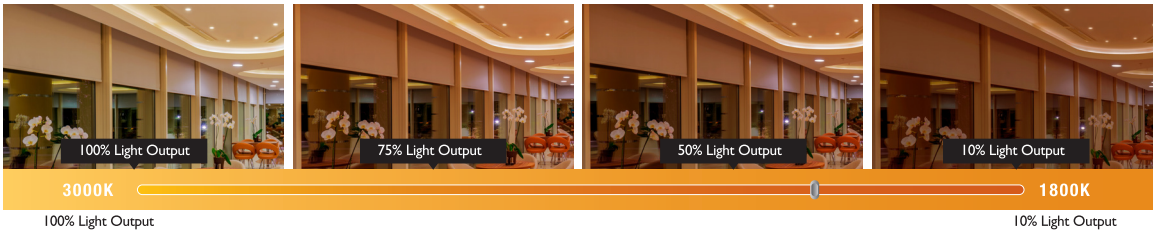
DRIVER ELECTRICAL INFORMATION
The LED driver is rated for 50 to 60Hz at 120V/277V input, produces less than 20%THD, has a power factor between 90% and 100%, and is thermally protected for additional safety. Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction 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.
LUT2W - Lutron LTEA2W Hi-Lume 1%. 2-wire LED Driver Forward Phase Control, 1% dimming in 120V only.
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 if used with HH5-5501 Trim.
c-UL-us - Listed for Feed Through Wiring.

U.S Patent No. - D685,118S



Example: **HHJ5-LED-WDM-30K-18K-900L-DIM10-120-MD-90-HH5-5501-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE	EMERGENCY	TRIM TYPE	REFLECTOR/TRIM- FINISH
HHJ5-LED-WDM-30K-18K	❑ 900L ❑ 1200L	❑ DIMTR [1] ❑ DIM10 ❑ LUTH [2] ❑ LUT2W [1] ❑ ELDO10-.1 [2] ❑ ELDODALI-.1 [2] ❑ ELDODMX-.1 [2]	❑ 120 ❑ 277 ❑ MVOLT	❑ EMG-LED-10W ❑ 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	❑ HH5-5501 Flanged Downlight ❑ HH5-5507 Flanged Wall Wash ❑ HH5-5577 Flanged Double Wall Wash	❑ CL-WH ❑ CL-SCH ❑ SHZ-WH ❑ SHZ-SHZ ❑ WT-WH ❑ WH-WH ❑ MB-WH ❑ CL-BK ❑ MB-BK

OPTICS	CRI
❑ WD ❑ MD ❑ ND	❑ 90+

[1] **DIMTR** and **LUT2W** are 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**

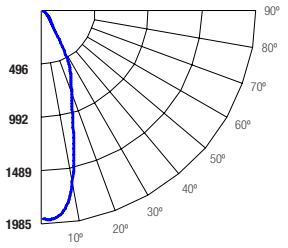
Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.

HHJ5-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)



Cone of Light			
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
(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	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°	Average 45°	Average 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

Angle	0
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%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
	1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
	2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
	3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
	4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	79
	5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
	6	91	83	77	73	89	82	77	73	80	76	72	79	75	72	78	74	71	70
	7	87	78	73	69	86	78	73	69	76	72	68	75	71	68	74	71	68	66
	8	83	75	69	65	82	74	69	65	73	68	65	72	68	65	71	67	64	63
	9	80	71	66	62	79	71	65	62	70	65	62	69	65	62	68	64	61	60
	10	77	68	63	59	76	67	62	59	67	62	59	66	62	59	65	61	59	57

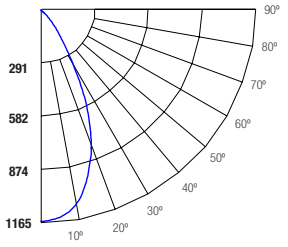
***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

HHJ5-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)



Cone of Light			
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
(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	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°	Average 45°	Average 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

Angle	0
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%	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	108	106	104	104	103	101	101	99	98	97	96	95	93
	2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87
	3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	81
	4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75
	5	92	84	78	74	90	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	70	67	74	70	67	65
	7	83	74	68	64	82	73	68	63	72	67	63	71	66	63	70	66	62	61
	8	79	70	64	60	78	69	63	59	68	63	59	67	62	59	66	62	59	57
	9	75	66	60	56	74	65	60	56	64	59	56	64	59	55	63	58	55	54
	10	72	62	57	53	71	62	56	53	61	56	52	60	56	52	60	55	52	51

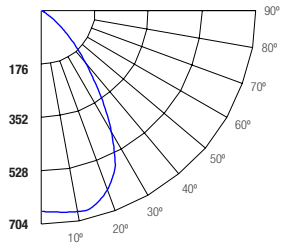
***RC** - Ceiling Cavity Reflectance* ***RW** - Wall Reflectance*

HHJ5-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)



Cone of Light			
2	173	2.8	2.8
4	43.1	5.6	5.6
6	19.2	8.4	8.3
8	10.8	11.2	11.1
10	6.9	14	13.9
12	4.79	16.8	16.7
(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	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°	Average 45°	Average 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

Angle	0
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

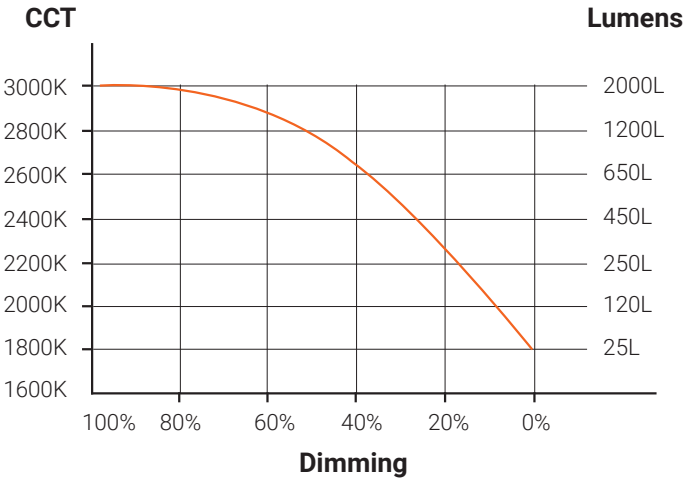
Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

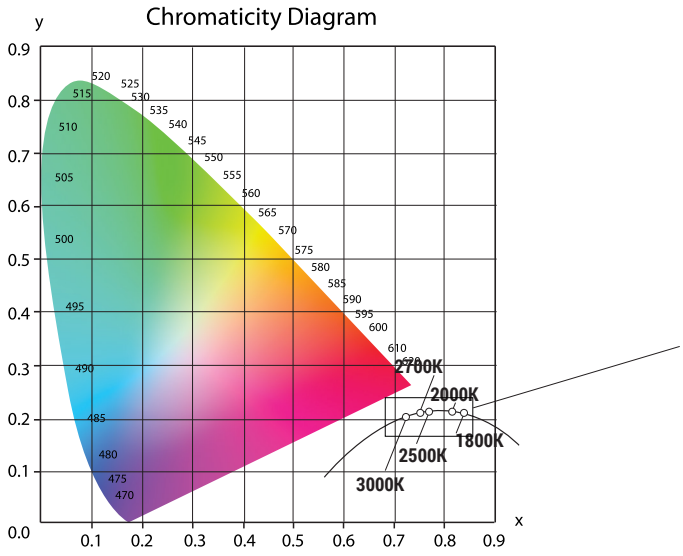
	RC	80%				70%				50%			30%			10%			0%
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
ROOM CAVITY RATIO	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
	1	113	110	107	105	111	108	105	103	104	102	100	100	98	97	97	95	94	92
	2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
	3	101	94	88	84	99	92	87	83	89	85	82	87	83	80	85	82	79	78
	4	95	87	80	76	93	85	80	75	83	78	74	81	77	74	79	76	73	71
	5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65
	6	84	74	68	63	83	74	67	63	72	67	63	71	66	62	69	65	62	60
	7	80	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55
	8	75	65	58	54	74	64	58	54	63	57	53	62	57	53	61	56	53	51
	9	71	61	54	50	70	60	54	50	59	53	49	58	53	49	57	53	49	48
	10	67	57	50	46	66	56	50	46	55	50	46	55	50	46	54	49	46	44

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

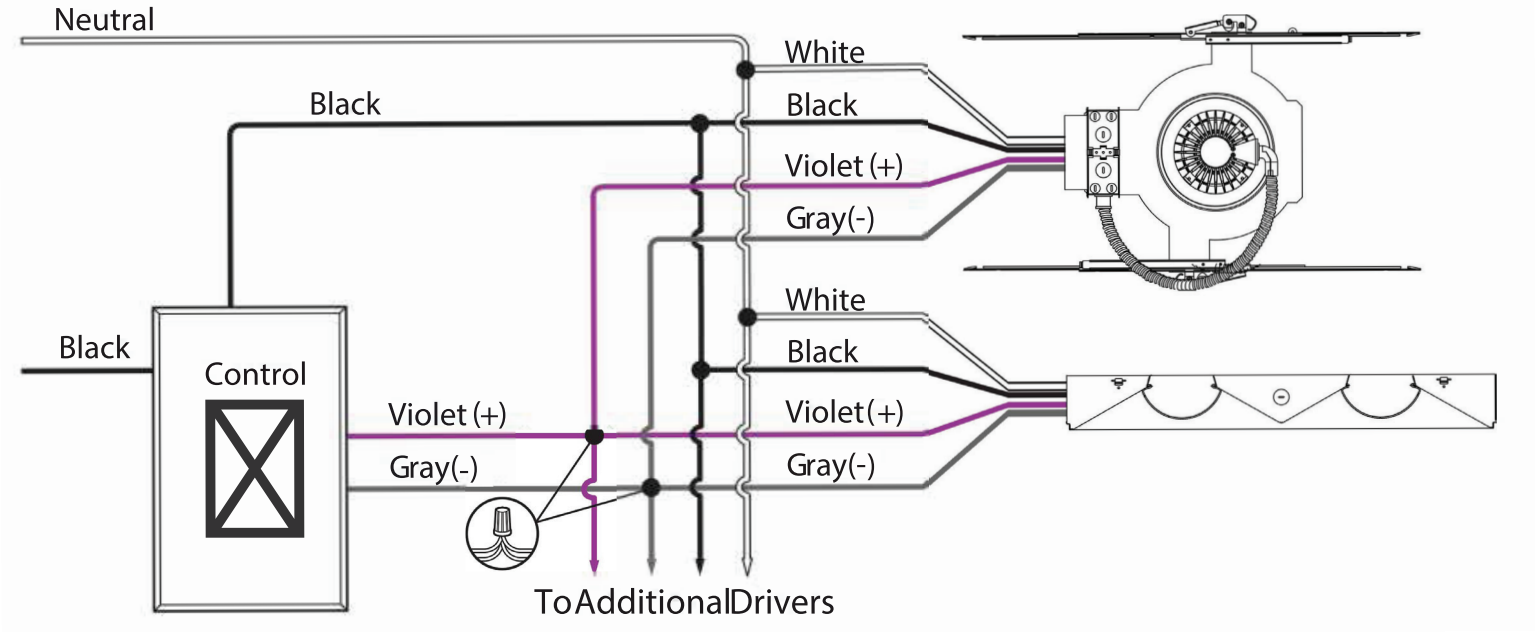
Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.



Base on a Luminaire with a 2000 Lumens Output



WDM-30K-18K



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	EASYFIT by EnOcean	LUTRON	enlighted	LEVITON	OSRAM	PHILIPS EasySense	legrand
CONTROL UNIT	❏ LEDRU LED Relay Zone Controller 0-10V [1]	❏ FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) [14]	❏ CU-4E-FMH Fixture Mount Control Unit [15]	❏ ZL027 –N0W Intellect Power Control Module [16]	❏ EN-WCM2-ZB-DR Wireless Control Module[17]	❏ SBR -BS Xitanium SR Bridge [18]	❏ LMFC-011 ON/OFF/0-10V dimming fixture controller [19]
	❏ LEDDU LED Zone Controller 0-10V [1]	❏ FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) [14]		❏ ZL027 –N0W Intellect Power Control Module [16]	❏ EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module [17]		
					❏ ZBHA-CLM-DIM-ENC Connected Lighting Module DIM [17]		
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	❏ 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	❏ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor [3]
*WIRELESS DAYLIGHT SENSOR	❏ 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	❏ 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 [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/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 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.