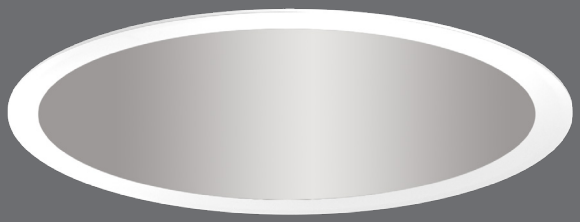
MAXILUME ARCHITECTURAL LIGHTING
By Elite Lighting

Dims to Warm **HHJ10-LED** 10”
10” Architectural High Lumen LED Downlight - Retrofit

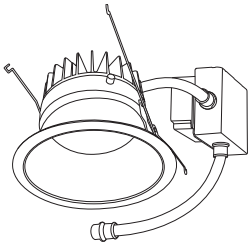


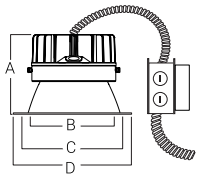
HH10-1501
Flanged Downlight

HH10-1507
Flanged Wall Wash

HH10-1577
Flanged Double Wall Wash

REFLECTOR/ TRIM COLOR





A: Height = 9-1/8”
B: Trim Aperture = 9-5/8”
C: Cut-Out = 10-5/8”
D: Trim Outside Dia = 11-5/32”

NOMINAL LUMENS	WATTAGE
2000	34 W
1500	24 W
1200	18 W
900	13 W

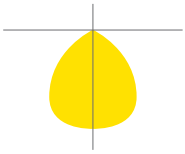
Based on 3000K, 90+CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

DYNAMIC PLATFORM

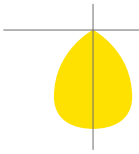
SMART DIM - Dims to Warm with Smart Dim technology simulates traditional incandescent halogen lighting through dimming, while providing the energy efficiency, high performance and longevity of LED luminaires. When the luminaire dims to warm, it makes a smooth transition across the black body radiator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

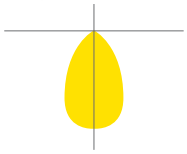
VWD: Very Wide Candlepower Distribution Curve



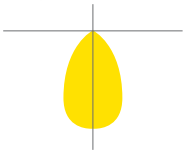
WD:Wide Candlepower Distribution Curve



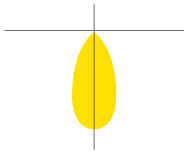
MWD:Medium Wide Candlepower Distribution Curve



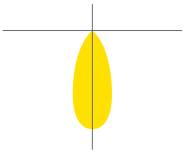
MD:Medium Candlepower Distribution Curve



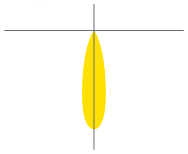
ND: Narrow Candlepower Distribution Curve



SPD:Spot Candlepower Distribution Curve



NSPD:Narrow Spot 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

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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.
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 HH10-1501 Trim.
c-UL-us - Listed for Feed Through Wiring.

U.S Patent No. - D685,118S

Example: **HHJ10-LED-WDM-30K-18K-900L-DIM10-120-MD-90-HH10-1501-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE	EMERGENCY	TRIM TYPE	REFLECTOR/TRIM- FINISH
HHJ10-LED-WDM-30K-18K	❑ 900L ❑ 1200L ❑ 1500L ❑ 2000L	❑ DIMTR [1] ❑ DIM10 ❑ LUTH [2] ❑ 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	❑ HH10-1501 Flanged Downlight ❑ HH10-1507 Flanged Wall Wash ❑ HH10-1577 Flanged Double Wall Wash	❑ CL-WH ❑ CL-SCH ❑ SHZ-WH ❑ SHZ-SHZ ❑ WT-WH ❑ WH-WH ❑ MB-WH ❑ CL-BK ❑ MB-BK

OPTICS	CRI
❑ VWD 70° ❑ WD 60° ❑ MWD 52° ❑ MD 36° ❑ ND 30° ❑ SPD 24° ❑ NSPD 15°	❑ 90+

[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**

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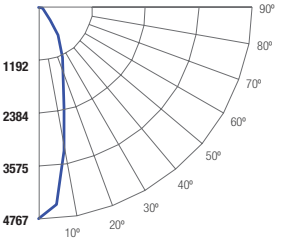
HHJ10-LED-WDM-30K-18K-2000L-MD-HH10-1501-CL-WH TEST NO.: **EL1218150**

INPUT WATTS: **34.6** LUMENS: **2103** CRI: **90+** EFFICACY: **61** CCT: **3000K** SPACING CRITERIA: **0.54**

Candle Power Distribution (Candelas)



Cone of Light		
4.0	298	2.0 ft
8.0	74.5	4.0 ft
12.0	33.1	6.0 ft
16.0	18.6	8.0 ft
20.0	11.9	10.0 ft
24.0	8.28	12.0 ft
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	955.36	46.20	45.40
0-30	1498.75	72.40	71.30
0-40	1902.14	91.90	90.50
0-60	2093.87	101.20	99.60
0-80	2101.89	101.50	100.00
0-90	2102.89	101.60	100.00

Luminance (Average candela/M^2)

Angle in Degrees	Average 0º	Average 45º	Average 90º
45	3903	2532	7392
55	641	647	1205
65	129	179	629
75	84	151	182
85	52	322	401

Lumens Per Zone

Zone	Lumens
0-10	356.12
10-20	599.23
20-30	543.39
30-40	403.39
40-50	162.97
50-60	28.77
60-70	6.29
70-80	1.73
80-90	0.99

Candela Tabulation

	0
0	4767.32
5	4477.71
15	2200.10
25	1216.25
35	721.84
45	138.85
55	18.51
65	2.74
75	1.09
85	0.23
90	0.05

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	121	121	121	121	118	118	118	118	113	113	113	108	108	108	104	104	104	102
	1	116	113	110	108	113	111	108	106	106	105	103	103	101	100	99	98	97	95
	2	110	105	101	98	108	104	100	97	100	97	95	97	95	93	94	93	91	89
	3	105	98	94	90	103	97	93	89	94	91	88	92	89	86	90	87	85	83
	4	100	92	87	83	98	91	86	82	89	85	81	87	83	80	85	82	79	78
	5	95	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
	6	91	82	76	72	89	81	76	72	80	75	71	78	74	71	77	73	70	69
	7	86	77	72	67	85	77	71	67	75	70	67	74	70	67	73	69	66	65
	8	83	73	68	64	81	73	67	63	72	67	63	71	66	63	70	66	63	61
	9	79	70	64	60	78	69	64	60	68	63	60	67	63	60	66	62	59	58
	10	76	66	61	57	75	66	60	57	65	60	57	64	60	57	64	59	56	55

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

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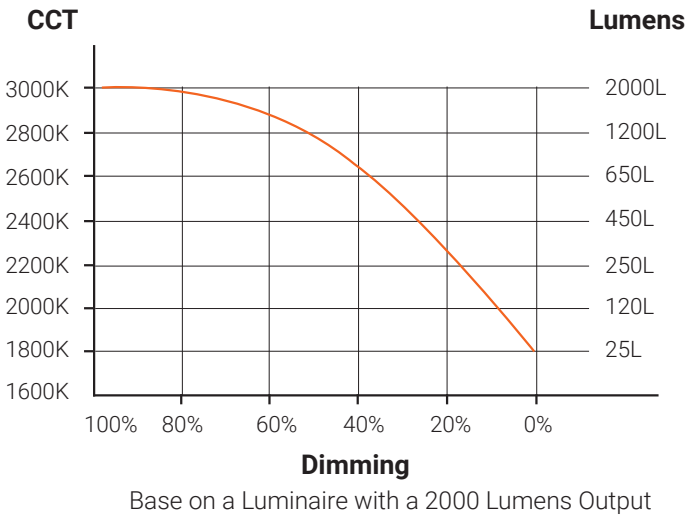
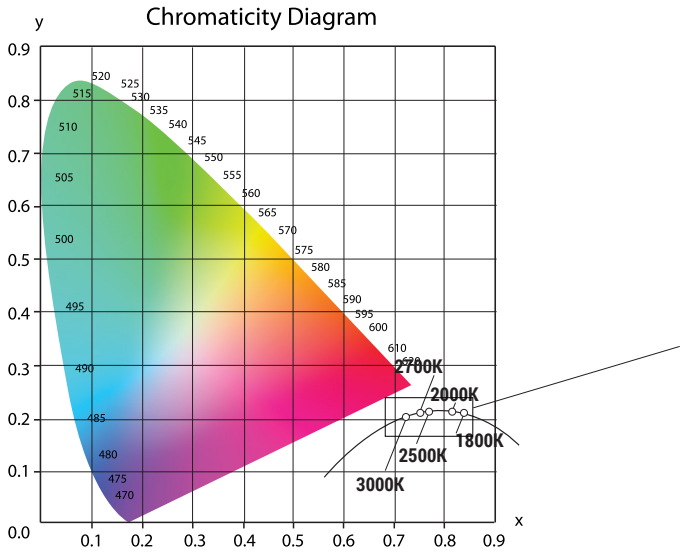
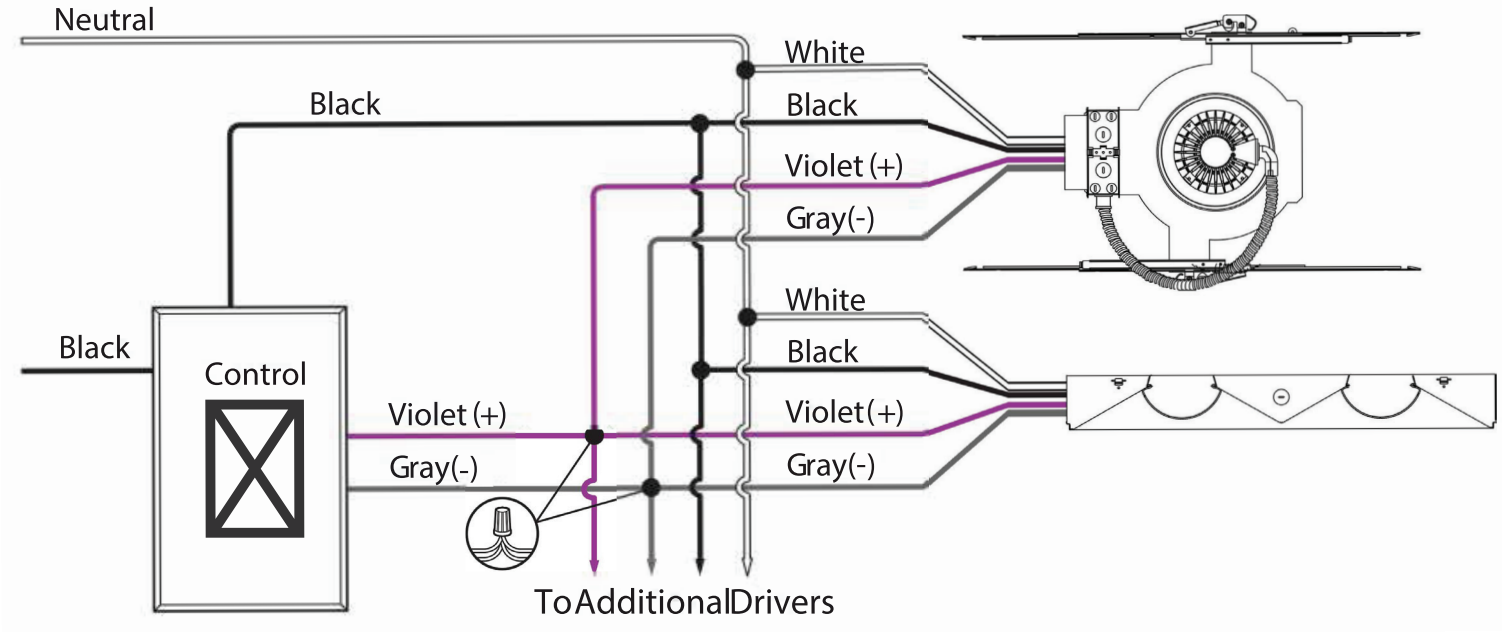


Base on a Luminaire with a 2000 Lumens Output



WDM-30K-18K



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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.

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