



HH5-5501
Flanged Downlight



HH5-5507
Flanged Wall Wash



HH5-5577
Flanged Double Wall Wash

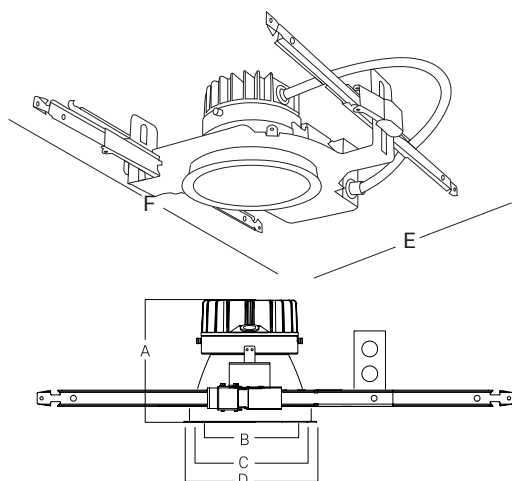


HH5-TL-5501
Trimless Downlight



HH5-TL-5507
Trimless Wall Wash

REFLECTOR/
FLANGE COLORS



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	DELIVERED LUMENS	WATTAGE
3000	3326	32 W
2000	2101	26 W
1500	1665	20 W
1200	1314	16 W
900	975	12 W

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

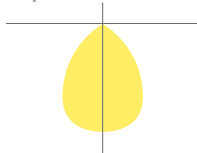
The reflector has a 45° visual cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. Spun from 0.05" thick aluminum, with a 1-step anodized finish, and available in different colors or custom RAL finishes. Reflector flange options include self-flanged and white painted flange.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

LUMENS	900, 1200, 1500, 2000, 3000* (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), 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, LUTFB, LUT2W, ELDO10.1, ELDDMX.1, ELDDALI.1, DIMTR
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

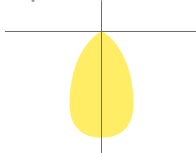
*3000 Lumens is not ENERGY STAR certified

* Only Available on 85+ CRI

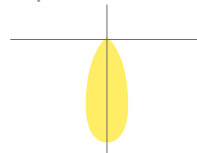
WD: Wide
Candlepower Distribution Curve



MD: Medium
Candlepower Distribution Curve



ND: Narrow
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.



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

The downlight mounting frame is a fabricated assembly constructed of 16-gauge steel, with C-channel mounting brackets, included. The versatility of the mounting brackets allow 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, 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 3000 lumens only.

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.

LUTFB - Lutron PEQ0 Hi-Lume Premier Eco System. 0.1% dimming with Soft in Fade to Black dimming technology. Available on all luminaires up to 20 watts.

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.

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 HH5-5501 Trim.

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

U.S Patent No. - D685,118S

CP-City of Chicago environmental air (CCEA) marking for plenum applications.

Energy Star and California Title 24 compliant

Optional Black color trim is not ENERGYSTAR certified and won't meet the requirement.

Example: **HH5-LED-3000L-DIM10-MVOLT-MD-40K-85-HH5-5501-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE	CCT	EMERGENCY	TRIM TYPE	REFLECTOR/FLANGED COLORS
HH5-LED	☐ 900L	☐ DIM10	☐ 120	☐ 22K	☐ EMG-LED-10W	☐ HH5-5501 Flanged Downlight	☐ CL-WH
	☐ 1200L	☐ DIMTR ¹	☐ 277	☐ 27K	☐ EMG-LED-20W	☐ HH5-5507 Flanged Wall Wash	☐ CL-SCH
	☐ 1500L	☐ LUTH ²	☐ MVOLT	☐ 30K	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	☐ HH5-5577 Flanged Double Wall Wash	☐ SHZ-WH
	☐ 2000L	☐ LUT2W ¹	☐ 347 (DIM10 only)	☐ 35K		☐ WT-WH	
	☐ 3000L* ⁵	☐ LUTFTB ⁶	☐ 40K	☐ 50K ³		☐ WH-WH	
		☐ ELDO10-.1 ²				☐ MB-WH*	
		☐ ELDODALI-.1 ²			☐ CL-BK		
		☐ ELDODMX-.1 ²			☐ MB-BK*		

¹ DIMTR and LUT2W are 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 3000 Lumens is not energy Star certified

⁶ LUTFB Available for luminaires up to 1500L

* Only Available on 85+ CRI

-Reference last page for Control Options

HH5-LED-3000L-DIM10-MVOLT-ND-40K-80-HH5-5501-CL-WH

TEST NO.: **EL011931**

INPUT WATTS: **32.5**

LUMENS: **3326**

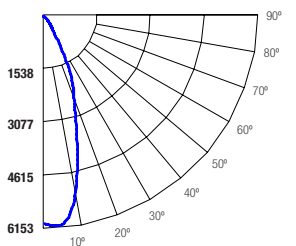
CRI: **90**

EFFICACY: **102**

CCT: **4000K**

SPACING CRITERIA: **0.68**

Candle Power Distribution (Candelas)



Cone of Light			
Beam Dia. (ft.)	Beam Angle (deg.)	Beam Dia. (ft.)	Beam Angle (deg.)
2	1512	1.4	1.4
4	378	2.8	2.7
6	168	4.2	4.1
8	94.5	5.6	5.5
10	60.5	7	6.8
12	42	8.5	8.2

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1667.9	N.A.	50.10
0-30	2615.82	N.A.	78.60
0-40	3050.62	N.A.	91.70
0-60	3303.94	N.A.	99.30
0-80	3324.44	N.A.	99.90
0-90	3326.39	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	22983	25594	37711
55	4579	8456	9530
65	1628	2082	5047
75	790	1187	1520
85	330	2391	2849

Lumens Per Zone

Zone	Lumens
0-10	545.38
10-20	1122.52
20-30	947.92
30-40	434.80
40-50	200.05
50-60	53.27
60-70	16.34
70-80	4.18
80-90	1.94

Candela Tabulation

Zone	0
0-10	6047.482
10-20	6135.653
20-30	4033.317
30-40	2096.298
40-50	497.389
50-60	199.518
60-70	32.242
70-80	8.448
80-90	2.509
90	0.353

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	115	111	111	112	106	106	106	102	102	102	100		
	1	114	111	109	107	111	109	107	105	110	103	103	101	101	100	99	98	97	96	94		
	2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88			
	3	104	98	93	89	102	96	93	89	94	90	87	91	88	86	89	87	85	83			
	4	99	92	87	83	97	91	86	82	89	85	81	87	83	80	85	82	80	78			
	5	95	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74			
	6	90	82	77	73	89	81	76	72	80	75	72	78	74	71	77	74	71	70			
	7	86	78	72	68	85	77	72	68	76	71	68	75	71	68	74	70	67	66			
	8	83	74	68	65	82	73	68	65	72	68	64	71	67	64	70	67	64	62			
	9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	64	61	59			
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	65	61	58	57				

RC - Ceiling Cavity Reflectance

RW - Wall Reflectance

HH5-LED-3000L-DIM10-MVOLT-MD-40K-80-HH5-5501-CL-WH

TEST NO.: **EL011930**

INPUT WATTS: **32.5**

LUMENS: **3155**

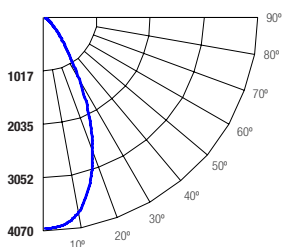
CRI: **90**

EFFICACY: **97**

CCT: **4000K**

SPACING CRITERIA: **0.80**

Candle Power Distribution (Candelas)



Cone of Light			
Beam Dia. (ft.)	Beam Angle (deg.)	Beam Dia. (ft.)	Beam Angle (deg.)
2	1017	1.9	1.9
4	254	3.9	3.8
6	113	5.8	5.7
8	63.6	7.7	7.6
10	40.7	9.6	9.5
12	28.3	11.6	11.4

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	1298.98	N.A.	41.20
0-30	2252.51	N.A.	71.40
0-40	2815.58	N.A.	89.20
0-60	3131.5	N.A.	99.30
0-80	3152.91	N.A.	99.90
0-90	3154.74	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	27364	31578	44386
55	4805	9608	10422
65	1626	2110	5442
75	793	1181	1474
85	330	2179	2583

Lumens Per Zone

Zone	Lumens
0-10	374.29
10-20	924.69
20-30	953.53
30-40	563.07
40-50	255.55
50-60	60.37
60-70	17.27
70-80	4.14
80-90	1.83

Candela Tabulation

Zone	0
0-10	4069.822
10-20	4020.313
20-30	3363.331
30-40	2032.363
40-50	745.231
50-60	237.552
60-70	33.839
70-80	8.438
80-90	2.519
90	0.353

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	96	106	101	98	94	98	95	92	95	93	90	92	90	89	87			
	3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81			
	4	97	90	80	80	95	89	83	79	87	82	79	84	81	78	83	75	77	75			
	5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			
	6	88	79	73	69	86	78	73	68	77	72	68	75	71	68	74	70	67	66			
	7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62			
	8	80	70	64	60	78	70	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

HH5-LED-3000L-DIM10-MVOLT-WD-40K-80-HH5-5501-CL-WH

TEST NO.: **EL011929**

INPUT WATTS: **32.6**

LUMENS: **2886**

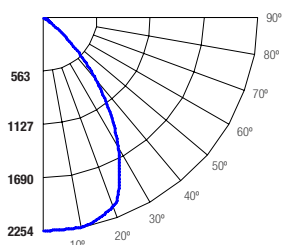
CRI: **90**

EFFICACY: **89**

CCT: **4000K**

SPACING CRITERIA: **1.04**

Candle Power Distribution (Candelas)



Cone of Light			
Beam Dia. (ft.)	Beam Angle (deg.)	Beam Dia. (ft.)	Beam Angle (deg.)
2	555	2.7	2.9
4	139	5.4	5.9
6	61.7	8.1	8.8
8	34.7	10.7	11.7
10	22.2	13.4	14.6
12	15.4	16.1	17.6

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

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	831.23	N.A.	28.80
0-30	1689.48	N.A.	58.50
0-40	2421.33	N.A.	83.90
0-60	2859.37	N.A.	99.10
0-80	2884.69	N.A.	99.90
0-90	2886.45	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	39530	49055	55055
55	5731	13328	13668
65	1766	2346	6920
75	830	1194	1462
85	348	1950	2290

Lumens Per Zone

Zone	Lumens
0-10	212.64
10-20	618.60
20-30	858.24
30-40	731.85
40-50	358.50
50-60	79.55
60-70	20.90
70-80	4.41
80-90	1.77

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 (Luminaire is shipped Vive Enabled) ¹⁴	☐ CU-4E-FMH Fixture Mount Control Unit ¹⁵	☐ ZL027 –NOW 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 (Luminaire is shipped Vive Enabled) ¹⁴		☐ ZL027 –NOW 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 -TOW Intellect Intelligent Fixture Control System ³ (Must be specified with ZL027 –NOW 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
ACCESSORIES	N/A	N/A	☐ TMC-SU-5E Tile Mount Carrier ☐ CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT Ready™ drivers ☐ 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 orderd through Legrand.