

HH4SQ-LED 4" Architectural High Lumen Square LED Downlight





LED-4607 Wall Wash Reflector with **Diffuse Lens**

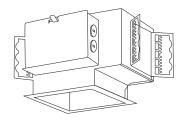


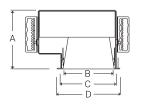
HH4SQ-TL-LED-4607 Trimless Wall Wash Reflector with Diffuse Lens



HH4SQ-TL-LED-4614 Trimless Reflector with Frosted Glass Lens

REFLECTOR/ FLANGE COLORS CL-WH CL-SCH SHZ-WH SHZ-SHZ WT-WH W-WH





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	2039	20 W
1500	1488	15 W
1000	1040	10W
900	894	9 W

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

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LISTED

FEATURES

MB-BK

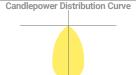
A highly sustainable and ultra-efficient architectural LED downlight that provides even, glare-free illumination. Available in a range of finishes and lumen packages, it is ideally suited for use in corporate office space, hospitality, healthcare, commercial, academic, churches and retail.

OPTICS AND REFLECTOR

The reflector has a 45° 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 selfflanged and white painted flange.

LUMENS	900, 1000, 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	MD (Medium Distribution), WD (Wide 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, LUTFTB, LUT2W, ELDO10.1, ELDODMX.1, ELDODALI.1, DIMTR
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

Candlepower Distribution Curve



Reference IES files for additional distribution curve information.

CONSULT FACTORY



elite

AMERICA

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

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CHICAGO





THERMAL MANAGEMENT SYSTEM

Passive cooling die-cast aluminum heatsink. LED light engine and driver are replaceable, upgradeable, and can be accessed from below the ceiling. A unique locking mechanism aligns the reflector with the light engine for precise, uniform aiming.

MOUNTING FRAME & BRACKETS

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, 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.

WARRANTY

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

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)

LISTINGS

c-UL-us - Listed for Wet Location. c-UL-us - Listed for Feed Through Wiring. U.S Patent No. - D685,118S

SERIES	LU	IMENS	DRIVER	VOLTAGE	ССТ	EMERGENCY	TRIM TYPE	REFLECTOR/FLANGE COLOR
H4SQ-LED		900L	DIM10	🖵 120	🗅 22K	EMG-LED-10W	LED-4614	CL-WH
		1000L	DIMTR 1	2 77	🖵 27K	EMG-LED-20W	Reflector with Frosted Glass Lens	CL-SCH
		1500L	□ LUTH 2	MVOLT	🖵 30K	INTG-EMG-LED-10W	LED-4607	G SHZ-WH
		2000L	LUTFTB 5	3 47	🖵 35K	INTG-EMG-LED-20W	Wall Wash Reflector with Diffuse Lens	G SHZ-SHZ
	-	20002	🖵 ELD0101 ²	(DIM10 only)	🖵 40K	EMG-LED-G2-10W-SDT*		🗅 WT-WH
			ELDODALI1 2		🖵 50K ³	Typical lumen output of the luminaire is up to 1000L with EMG-LED-10W option & 2000L		🗅 WH-WH
			ELDODMX1			with EMG-LED-20W option in emergency mode. Contact the factory for details.		🗅 MB-WH
			2			Remote mounted installation *Consult Factory for Self Diagnostic		CL-BK
				OPTICS	CRI			🖵 MB-BK
					90+			
				U WD	□ 98+ ⁴		TRIMLESS	
							HH4SQ-TL-4614	
							Glass Lens	
							HH4SQ-TL-4607 Trimless Wall Wash Reflector with Diffuse Lens	
MTR are available in 120	/ onl	V 4	98+ CRI is² LUTH, EL	D0101. ELDO	DALI1. and ELD	ODMX1 are available in 120V and 277V	³ 50K series are available w	ith 85+ CRI only

page for Control Options







PUT WATTS: 11.3	LUM	1ENS	: 860			CRI: 90		El	FICA	ACY:	76	(CCT:	4000l	(SPA	ACING	G CRITE	RIA: 0.9
	90°	Zonal Lumens Summary						Lu	iminai	nce (Avera	age cai	ndela/	M ²)	Lume	ns Pe	er Zone		Ca	ndela Ta	bulation	
	80°		Zone	Lume	ens	%Lamp	%Fixt		An	ngle	Average	Avera	ge Av	erage	Zone	,	Lume	ens			<u>0</u>
	700		0-20 0-30	281.1 518.0		N.A. N.A.	32.70			egrees	0°	45°	1	90°	0-10		80.8		0		880.14 890.75
	/		0-30 0-40	687.4		N.A.	60.20 79.90		-4	45	8724	18656	28	746	10-2 20-3		200. 236.		1	5	696.52
X X	60°	C	0-60	822.1	4	N.A.	95.60			55	6961	11163			30-4		169.		2		548.83
		C	0-80	856.6	9	N.A.	99.60			65 75	3362	9755	119		40-5		90.3		3 4		114.04 62.47
		C	0-90	859.8	3	N.A.	100.00			75 35	1072 227	7398 7059	109 112		50-6		44.3		5		40.43
30°									_						60-7 70-8		24.4 10.0		6		14.39
10° 20°															80-9		3.14		7 8		2.81
10-							al Cavity	Meth	od										9		0.20 0.09
		Eff	ective F	loor Cav	vity Re	eflectance	e 0.20														
Cone of Light			RC			80%		70%				50%			30%			10%			0%
2 220 2.1	1.8		RW	70%	50%	30% 10	%	70%	50%	30%	10%	50%	30% 1	0%	50%	30%	10%	50%	30%	10%	0%
4 55 4.2	3.6	0	0	119 112	119	119 106	119	116	116 107	116 105	116 102	111	111	111	106	106	106	102	102	102	100 91
6 24.4 6.4	5.4	<i>ВООМ САVITY RATIO</i>	1 2	112 106 100	119 109 100 92 85 79 74	106 96 87	104 92 82 74 68 62 57	110 104	107 99 91	94	102 91	111 103 95 88 82 76 71	111 101 92 84 77 71 66	111 99 89 80 73 67 62 57	106 99 92 86 80 75 70	106 98 89 82 76 70 65	106 96 87 79 72 66 61 57	102 96 89 83 78 73 68 64	102 95 87 80	102 93 85 78	91 83
8 13.8 8.5	7.3	2	2 3 4 5 6	100 94	92 85	87 79	82 74	98 92	91 84	86 78	91 81 74 67 62	88 82	84 77	80 73	86 80	82 76	79 72	83 78	80 74	78 71	83 76 70
10 8.8 10.6	9.1	LIN	5	94 89 84 79 75	79 74	79 73 67	68	87 82	84 78 73	78 72 67	67	76	71	67	75	70	66	73	74 69 64	66 61	64 59
12 6.11 12.7	10.9	²	7	79	69	62	57	78	68	62	57	67	61	57	65 62	60 56	57	64	60	56	55 51
Distance (FC.) Initial (FT.) Beam Plane at Nadir Vert. Spread	(FT.) Beam Horiz. Spread	Ň	8 9	71	64 61	58 54	53 50	74 70	64 60	58 54	53 50	63 59	57 53	53 49	58	53	53 49	61 57	56 53	52 49	48
BEAM DIA. MEASURED AT 50% OF NADIR		_	10	68	57	51	47	66	57	51	46	56	50	46	55	50	46	54	49	46	45
			RC - Ceili	ing Cavity	Reflec	tance	RW - V	Vall Re	flectan	ice											
4SQ-LED-900L-DIM	10-MVO	<u>'LT-'</u>	WD-4	0K-90																	EL011
JT WATTS: 11.3	LUM	1ENS	: 894			CRI: 90		E	FICA	ACY:	79	(CCT:	4000l	(SPA	ACINO	G CRITE	RIA: 1.24
dle Power Distribution (Ca	indelas)	Zo	onal Lui	mens S	umma	ary			Lu	iminai	nce (Avera	age cai	ndela/	M ²)	Lume	ns Pe	er Zone		Ca	ndela Ta	bulation
	90°		Zone	Lume	ens	%Lamp	%Fixt		An	ngle	Average	Avera	ge Av	erage	Zone	,	Lume	ens			<u>0</u>
	80°		0-20	199.6		N.A.	22.30			egrees	0°	45°		90°	0-10)	47.2	4	0		499.26
TTNXX	/		0-30	464.4		N.A.	52.00					00000	050	007	10-2		152.		5 1		491.18 573.25
$ \times \times \times$	7 70°		0-40 0-60	705.5 880.4		N.A. N.A.	79.00 98.50			45 55	14719 3662	22980 6353	258 119		20-3		264.		2		518.62
\rightarrow	60°		0-60 0-80	892.8		N.A.	98.50 99.90			35 35	601	1192	57		30-4 40-5		241. 131.		3	5	199.45
$++(N \times \vee)$	00"		0-80 0-90	893.5		N.A.	100.00		7	75	385	652	740		50-6		43.5		4		105.40
++				030.0	0	N.A.	100.00		8	35	363	940	10	54	60-7		10.7		5		21.27
		_																	6	5	2 57
50'		_													70-8	30	1.70		6 7		2.57 1.01
40°				to of 14	-	on 7cm	al Cavity	Moth								30			6 7 8 9	5 5	2.57 1.01 0.32 0.06

549 732	20°	40°	
	Cone of	Light	
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

Cone of Light												
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									
(FT.)Distance	(FC.) Initial Footcandle	(FT.) Beam	(FT.) Beam									

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

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

RW - Wall Reflectance RC - Ceiling Cavity Reflectance







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		LUTRON	enlighted		OSRAM	PHILIPS EasySense	L 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	ZL027 –NOW Intellect Power Control Module ¹⁶	EN-WCM2-ZB-DR Wireless Control Module ¹⁷ EN- ALC-ZB-BK-DR	□ SBR -BS Xitanium SR	LMFC-011 ON/OFF/0-10V dimming	
CONTROL UNIT	LEDDU LED Zone Controller 0-10V ¹	□ FCJS-EC0 Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) ^{1.4}	Unit ¹⁵	ZL027 –NOW Intellect Power Control Module ¹⁶	Wireless Area Lighting Control Module ¹⁷ ZBHA-CLM-DIM-ENC Connected Lighting Module DIM ¹⁷	Bridge ¹⁸	fixture controller ¹⁹	
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	LLLSU-W-E0 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 A- Luminaire will be compatible with Lutron LRF2-0CR2B-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 an wireless switch.	9-Luminaire will be compatiable with DLM Room control system LMPB-100. DLM control system must be orderd through Legrand.	

