

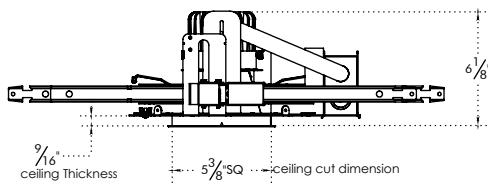
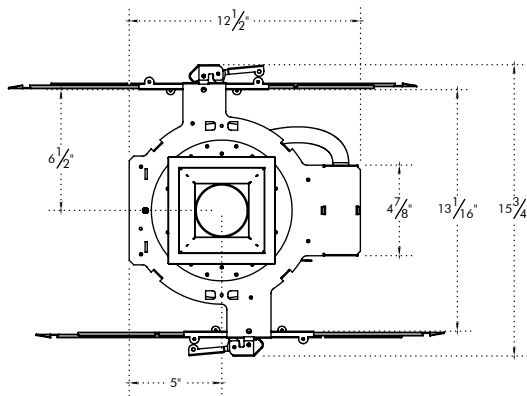


HL4SQ-4501
Flanged Downlight



HL4SQ-TL-4501
Trimless Downlight

REFLECTOR/
FLANGE COLORS



NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
3000	3579	32W
2000	2144	24W
1500	1699	18W
1200	1341	14W
900	995	10W
NOMINAL LUMENS (HP)	DELIVERED LUMENS (HP)	WATTAGE (HP)
1200	1401	12W
2000	2059	18W

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

FEATURES

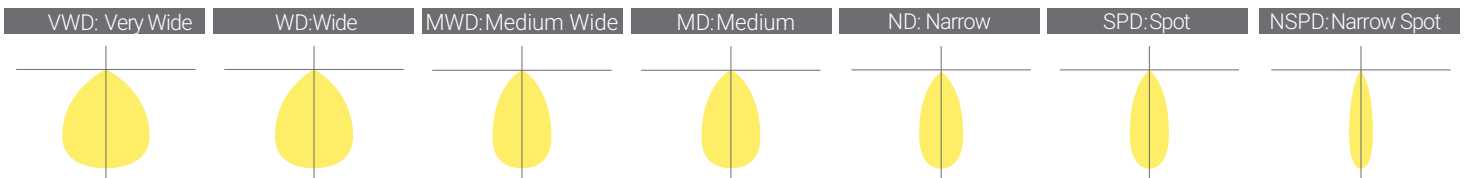
A highly sustainable and ultra-efficient architectural LED downlight that provides even, glare-free illumination. Available in a range of finishes, distributions, and lumen packages, it is ideally suited for use in corporate office space, hospitality, healthcare, commercial, academic, churches and retail.

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), HL4-IP-VR, HL4-LED
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	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), W (White), MB (Black), BZ (Bronze) WAM(White Anti Macrobia), Custom RAL
FLANGE COLORS	Self-Flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), BK (Black), BZ (Bronze)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, ELD010.1-LIN, ELD0DMX.1, ELD0DALI.1, DIMTR, BLE,POE,ELD010-LOG, XSR, DIM10-AUX, DIM10-0-Off
EMERGENCY	10W - Up to 1000L Output 20W - Up to 2000L Output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory) GTD-UL924
LIFETIME	L70>72,000-hour reported lifetime for Standard models L70>50,000-hour reported lifetime for HP models
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21
UGR	UGR <19

* Only Available on 85+ CRI



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.

LUTH - Lutron LDE1 Hi-Lume 1% Eco System LED driver with Soft-on, Fade to Black dimming technology.

LUTFB - Lutron PEQOE 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 with linear 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 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 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)

OPTICAL

Modular Optics Available with 15°, 24°, 30°, 36°, 52°, 60° and 70° field interchangeable optics design with 45° cutoff to source. Top-down flash characteristic for superior glare control. The optics attached directly the light engine to the Trim for complete optical alignment and sufficient efficacy. A UGR (Unified Glare Rating) of less than 19 minimizes the effect of glare, enhancing well-being and reducing discomfort.

WARRANTY

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

LISTINGS

c-UL-us - Listed for Damp Location .

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. 22K and 27K are not Energy Star Listed and won't meet the requirement. Please consult with Elite lighting to confirm Energy Star listing.

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

Example:

SERIES	LUMENS	DRIVER	VOLTAGE	CCT	EMERGENCY	TRIM TYPE	REFLECTOR COLORS
	<input type="checkbox"/> 900L <input type="checkbox"/> 1200L <input type="checkbox"/> 1500L <input type="checkbox"/> 2000L <input type="checkbox"/> 3000L* ⁴ <input type="checkbox"/> 1200L-HP <input type="checkbox"/> 2000L-HP	<input type="checkbox"/> DIM10 <input type="checkbox"/> DIMTR ^{3 5} <input type="checkbox"/> LUTH ³ <input type="checkbox"/> LUTFB ⁴ <input type="checkbox"/> ELDO10-1-LIN <input type="checkbox"/> ELDO10-1 <input type="checkbox"/> ELDO10-LOG <input type="checkbox"/> BLE <input type="checkbox"/> POE <input type="checkbox"/> DIM10-0-OFF <input type="checkbox"/> ELDO10-LOG <input type="checkbox"/> XSR <input type="checkbox"/> DIM10-AUX	<input type="checkbox"/> 120 <input type="checkbox"/> 277 <input type="checkbox"/> MVOLT <input type="checkbox"/> 347 (DIM10 only)	<input type="checkbox"/> 22K <input type="checkbox"/> 27K <input type="checkbox"/> 30K <input type="checkbox"/> 35K <input type="checkbox"/> 40K <input type="checkbox"/> 50K ²	<input type="checkbox"/> EMG-LED-10W <input type="checkbox"/> EMG-LED-20W <input type="checkbox"/> INTG-EMG-LED-10W <input type="checkbox"/> INTG-EMG-LED-20W <input type="checkbox"/> EMG-LED-G2-10W-SDT* <input type="checkbox"/> 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 * Consult Factory for Self Diagnostic	<input type="checkbox"/> HL4SQ-4501 Flanged Downlight	<input type="checkbox"/> CL-WH <input type="checkbox"/> WH-WH <input type="checkbox"/> SHZ-SHZ <input type="checkbox"/> CL-SCH <input type="checkbox"/> MB-WH* <input type="checkbox"/> SHZ-BK <input type="checkbox"/> CL-BK <input type="checkbox"/> MB-BK* <input type="checkbox"/> WT-WH <input type="checkbox"/> CL-BZ <input type="checkbox"/> BZ-BK <input type="checkbox"/> WT-WT <input type="checkbox"/> SHZ-WH <input type="checkbox"/> BZ-BZ <input type="checkbox"/> WT-WT <input type="checkbox"/> RAL <input type="checkbox"/> WAM * Black color trim is not ENERGYSTAR certified White Anti Microbial
							FLANGE COLORS
							<input type="checkbox"/> WH <input type="checkbox"/> BZ <input type="checkbox"/> BK <input type="checkbox"/> SCH <input type="checkbox"/> SHZ
							TRIMLESS FINISH
						<input type="checkbox"/> HL4SQ-TL-4501 Trimless Downlight	<input type="checkbox"/> CL <input type="checkbox"/> MB <input type="checkbox"/> SHZ <input type="checkbox"/> WH

¹ DIMTR is available in 120V only

² 50K series are available with 85+ CRI only

³ 98+ CRI is available in 27K, 30K and 40K only

⁴ 3000 Lumens is not energy Star certified

⁵ LUTFB Available for luminaires up to 1500L

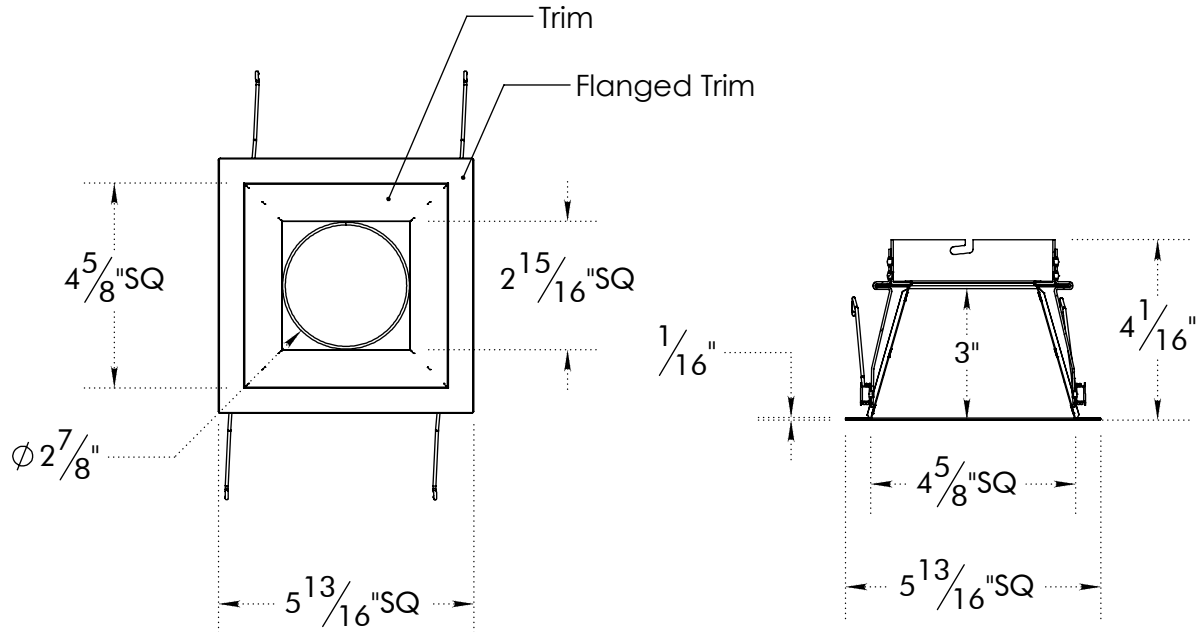
⁶ 3000K, 3500K and 4000K based on 90 CRI

⁷ Available on 30K, 35K, 40K

-Reference last page for Control Options

* Only Available on 85+ CRI

TRIM DIMENSION



HL4SQ-4501

HL4SQ-LED-3000L-DIM10-MVOLT-MD-40K-90-HL4-4501-CL-WH

TEST NO.: EL05022201

INPUT WATTS: 32.1

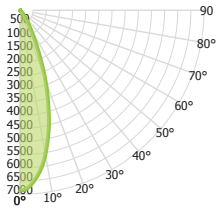
LUMENS: 3074

EFFICACY: 96

BEAM ANGLE: 37

SPACING CRITERIA: 0.57

CANDELA DISTRIBUTION



CANDELA TABLE

	0°	90°
0°	6865	6865
10°	5563	5499
20°	2816	2708
30°	777	740
40°	208	220
50°	32	36
60°	3	4
70°	0	0
80°	0	0
90°	0	0

LUMINANCE (cd/sq.m)

	0.00°	90.00°
0.00°	147009	147009
45.00°	2646	2904
55.00°	255	274
65.00°	98	106
75.00°	57	63
85.00°	10	15

LUMENS PER ZONE

ZONE	LUMENS
0° - 10°	604
10° - 20°	1224
20° - 30°	817
30° - 40°	313
40° - 50°	98
50° - 60°	14
60° - 70°	0
70° - 80°	0
80° - 90°	0

ZONAL LUMEN SUMMARY

ZONE	UMENS	% LUMINAIRE
0° - 20°	1828	59%
0° - 30°	2645	86%
0° - 40°	2958	96%
0° - 60°	3069	100%
0° - 80°	3072	100%
0° - 90°	3073	100%

CONE OF LIGHT

MOUNTING HEIGHT	FC AT BEAM CENTER	BEAM DIA. 0°-180°	BEAM DIA. 90°-270°
6.0 ft	190.7 fc	4.0 ft	4.0 ft
8.0 ft	107.3 fc	5.4 ft	5.4 ft
10.0 ft	68.7 fc	6.7 ft	6.7 ft
12.0 ft	47.7 fc	8.1 ft	8.1 ft
14.0 ft	35.0 fc	9.4 ft	9.4 ft
16.0 ft	26.8 fc	10.8 ft	10.8 ft
18.0 ft	21.2 fc	12.1 ft	12.1 ft
20.0 ft	17.2 fc	13.5 ft	13.4 ft








INDOOR COEFFICIENTS OF UTILIZATION

	20%										0%									
	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%
0	119	119	119	119	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95
2	110	105	102	99	107	104	101	98	100	98	96	98	95	94	95	93	92	90	90	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86	86	86
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81	81	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77	77	77
6	93	85	80	77	92	85	80	77	83	79	76	82	78	76	81	78	75	74	74	74
7	89	82	76	73	88	81	76	73	80	75	72	79	75	72	78	74	72	70	70	70
8	86	78	73	69	85	77	73	69	76	72	69	76	72	69	75	71	69	67	67	67
9	83	75	70	66	82	74	69	66	73	69	66	73	69	66	72	68	66	64	64	64
10	80	72	67	63	79	71	67	63	71	66	63	70	66	63	69	66	63	62	62	62

1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated control 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							
CONTROL UNIT	<input type="checkbox"/> NXFM-1R2D-0-UNV NX Fixture Module, Offset, 1 Relay, 2 0-10V Dimming Channels, 120-347VAC, Blue	<input type="checkbox"/> FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminaire is shipped Vive Enabled) ¹⁴ <input type="checkbox"/> FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminaire is shipped Vive Enabled) <input type="checkbox"/> A-WN-D01-RF-WH Athena wireless node (RF only) (White) <input type="checkbox"/> A-WN-D01-OCC-WH Athena wireless node with sensor (White)	<input type="checkbox"/> CU-4E-FMH Fixture Mount Control Unit ¹⁵	<input type="checkbox"/> ZL027 -NOW Intellect Power Control Module ¹⁶ <input type="checkbox"/> ZL027 -NOW Intellect Power Control Module ¹⁶	<input type="checkbox"/> EN-WCM2-ZB-DR Wireless Control Module ¹⁷ <input type="checkbox"/> EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module ¹⁷ <input type="checkbox"/> ZBHA-CLM-DIM-ENC Connected Lighting Module DIM ¹⁷	<input type="checkbox"/> SBR -BS Xitanium SR Bridge ¹⁸	<input type="checkbox"/> 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	<input type="checkbox"/> NXSMP2-SMI NX Slide Mount Indoor Sensor Module	N/A	N/A	N/A	N/A	N/A	<input type="checkbox"/> LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor ³
*WIRELESS DAYLIGHT SENSOR	<input type="checkbox"/> LUXSTATLS Luxstat Light Sensor for Luxstat Control Modules, 3 to 6000 FC	N/A	N/A	N/A	N/A	N/A	<input type="checkbox"/> LMLS-400 Single zone switching and dimming digital photosensor ³
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	<input type="checkbox"/> NXSMdT Indoor Ceiling Mount Sensor - OMNI	N/A	<input type="checkbox"/> SU-5E-IoT IoT Node Micro Sensor ³ <input type="checkbox"/> SU-5E-CL Connected Lighting Micro Sensor ³ <input type="checkbox"/> SU-5E-IL Independent Lighting / Enlighted One Micro Sensor ³ <input type="checkbox"/> SU-5S-H-(IoT/CL/IL) Surface Mount Sensor ³ (Must be specified with CU-4E-FMH Control Unit)	<input type="checkbox"/> ZL00J -TOW Intellect Intelligent Fixture Control System ³ (Must be specified with ZL027 -NOW Control Unit)	<input type="checkbox"/> EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor <input type="checkbox"/> 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)	<input type="checkbox"/> SNS212 EasyAir Daylight and Occupancy sensor	N/A
ACCESORIES	N/A	N/A	<input type="checkbox"/> TMC-SU-5E Tile Mount Carrier <input type="checkbox"/> CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT Ready™ drivers <input type="checkbox"/> 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 ordered through Legrand.