



LED-4614
Reflector with
Frosted Glass Lens



LED-4607
Wall Wash Reflector
with Diffuse Lens



LED-4615
Reflector with
Tempered Glass Lens



HH4SQ-TL-4614
Trimless Reflector with
Frosted Glass Lens



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



HH4SQ-TL-4615
Trimless Reflector with
Tempered Glass Lens

REFLECTOR/
FLANGE COLORS



CL-WH



CL-SCH



SHZ-WH



SHZ-SHZ



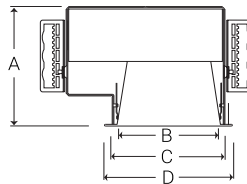
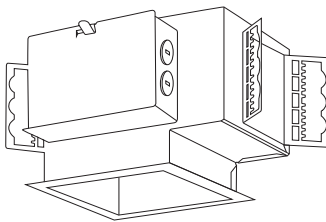
WT-WH



W-WH



MB-BK



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	ELITE	LED ENGINE
1500	18 W	-
1200	14 W	-
1100	-	15 W
900	10 W	-

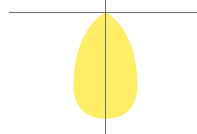
Based on 4000K, 90CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

DYNAMIC PLATFORM

SMART WHITE - Tunable White with Smart White technology allows the tuning of luminaires to mimic the natural color patterns throughout the day, enhancing interior office spaces, hospitality, and architectural elements. Tuning of intensity and color in classrooms enables a diversification in student activities, while the use of tunable white technology in healthcare stimulates circadian rhythm, accelerating the healing process. Complementing colors and textures in retail merchandising also has an impact on sales, utilizing the technology to adjust colors throughout the season. A CRI of 90+ is standard, and available on all three platforms. Elite Platform (50K-27K).

LUMENS	Elite Platform: 900, 1200, 1500 LED Engine Platform: 1100
TUNABLE WHITE PLATFORM	High Performance: TWH-50K-27K (50K to 27K) : TWH-65K-27K (65K to 27K)
CRI	90+ Standard
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTIONS	MD (Medium Distribution) - 45° visual cutoff
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), MB (Black) and TL (Trimless)
DIMMING	1% Dimming Standard, 0-10V (DIM10), DMX-512 DMX-RDM, BLE, LUTH, DALI, DLM
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

MD: Medium
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.





FEATURES

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° cutoff, and is shipped standard with a Solite lens in a smooth frosted finish. It is spun from 0.05" thick aluminum, has a 1-step anodized finish, and is available in different colors or custom RAL finishes. Reflector trim options include self-flanged and white painted flange.

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

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 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

SMART WHITE High Performance platform with a tuning range of 5000K to 2700K (TWH-50K-27K).

Control via DIM10 (0-10V), ELITE-CONNECT 0-10V, LUTRON, DMX512-RDM, DALI

Control via DIM10, ELITE-CONNECT 0 10V, DMX512, DMX-RDM, BLE, DALI Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

WARRANTY

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

LISTINGS

c-UL-us - Listed for Wet Location.

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

All LED luminaires are rated and tested to LM-79 and LM-80 standards by an independent laboratory.

U.S Patent No. - D685,118S



Example: **HH4SQ-LED-TWH-50K-27K-900L-DIM10-120-MD-90-LED-4607-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE		EMERGENCY	TRIM TYPE	REFLECTOR/TRIM- FINISH	WALL MOUNT CONTROLLER
HH4SQ-LED-TWH-50K-27K HH4SQ-LED-TWH-65K-27K	<input type="checkbox"/> 900L <input type="checkbox"/> 1200L <input type="checkbox"/> 1500L	<input type="checkbox"/> DIM10* <input type="checkbox"/> DMX-512 <input type="checkbox"/> DMX-RDM <input type="checkbox"/> DALI <input type="checkbox"/> LUTH ²	<input type="checkbox"/> 120 <input type="checkbox"/> 277 <input type="checkbox"/> MVOLT		<input type="checkbox"/> EMG-LED-10W <input type="checkbox"/> 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	<input type="checkbox"/> LED-4607 <input type="checkbox"/> LED-4614 <input type="checkbox"/> LED-4615	<input type="checkbox"/> CL-WH <input type="checkbox"/> CL-SCH <input type="checkbox"/> SHZ-WH <input type="checkbox"/> SHZ-SHZ <input type="checkbox"/> WT-WH <input type="checkbox"/> WH-WH <input type="checkbox"/> MB-WH <input type="checkbox"/> CL-MB	<input type="checkbox"/> EC-WC-TWH-HW-MVOLT ¹
			OPTICS	CRI		TRIMLESS	TRIMLESS FINISH	
			<input type="checkbox"/> MD	<input type="checkbox"/> 90+		<input type="checkbox"/> HH4SQTL-4607 <input type="checkbox"/> HH4SQTL-4614 <input type="checkbox"/> HH4SQTL-4615	<input type="checkbox"/> SHZ <input type="checkbox"/> CL	

* For 0-10V driver you must dedicate two control inputs, one for the Dimming Control and another for CCT Tuning.

** For Details Consult Factory

¹ Compatible with Elite 0-10V Platform and LED Engin 0-10V Platform ² (Lutron T Series 2 Channel Tunable White)



HH4SQ-LED-TWH-50K-27K-1200L-MD-HH4-4614-CL-WH

TEST NO.: **LM-63-2002**

INPUT WATTS: **21.8**

LUMENS: **1274**

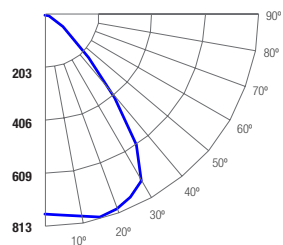
CRI: **90+**

EFFICACY: **58**

CCT: **4000K**

SPACING CRITERIA: **1.22**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	298.96	N.A.	23.50
0-30	636.30	N.A.	50.00
0-40	960.10	N.A.	75.40
0-60	1242.4	N.A.	97.50
0-80	1271.84	N.A.	99.90
0-90	1273.65	N.A.	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average 0°	Average 45°	Average 90°
45	34247	39080	24534
55	17658	12818	13229
65	8993	4126	2100
75	1975	1015	525
85	2993	1691	256

Lumens Per Zone

Zone	Lumens
0-10	74.71
10-20	224.25
20-30	337.34
30-40	323.80
40-50	197.44
50-60	84.85
60-70	25.26
70-80	4.18
80-90	1.82

Candela Tabulation

0	
0	771.83
5	775.73
15	773.44
25	674.50
35	475.00
45	249.71
55	104.44
65	39.19
75	5.27
85	2.69
90	1.40

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light		
4.0	48.2	6.5 ft.
8.0	12.1	13.0 ft.
12.0	5.36	19.4 ft.
16.0	3.01	25.9 ft.
20.0	1.93	32.4 ft.
24.0	1.34	38.9 ft.
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

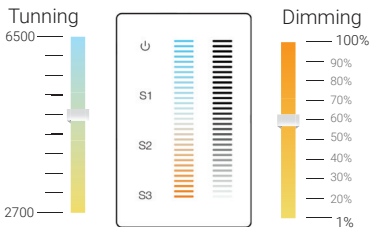

RC	RW	80%				70%				50%				30%				10%				0%			
		70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%		50%	30%	10%		50%	30%	10%		50%	30%	10%	0%
ROOM CAVITY RATIO	0	0	119	119	119	119	116	116	116	116	111	111	111	111	106	106	106	106	102	102	102	102	93	91	100
	1	1	112	109	106	104	110	107	104	102	103	101	101	99	99	97	96	96	94	94	93	84	82	82	82
	2	2	105	100	95	91	103	98	93	90	94	91	91	88	88	88	86	89	86	86	84	76	74	74	74
	3	3	99	91	85	80	96	89	84	80	87	82	82	78	84	80	77	82	79	76	76	69	67	67	67
	4	4	92	83	77	72	90	82	76	71	80	74	74	70	78	73	69	76	72	69	62	55	55	55	55
	5	5	86	76	69	64	85	75	69	64	74	68	68	63	72	67	63	70	66	62	57	50	50	50	50
	6	6	81	70	63	58	79	70	63	58	68	62	62	58	66	61	57	65	60	57	55	48	46	46	46
	7	7	76	65	58	53	75	64	58	53	63	57	57	52	62	56	52	60	56	52	50	44	42	42	42
	8	8	71	60	53	48	70	60	53	48	58	52	52	48	57	52	48	56	51	48	46	42	42	42	42
	9	9	67	56	49	44	66	55	49	44	54	48	48	44	53	48	44	53	48	44	42	42	42	42	42
	10	10	64	52	46	41	62	52	45	41	51	45	45	41	50	45	41	49	44	41	39	39	39	39	39

RC - Ceiling Cavity Reflectance RW - Wall Reflectance



CONTROL OPTIONS

With the integration of controls, Elite Lighting now offers its products with controls-ready performance that increases energy efficiency, smarter space planning, and the enhancement of safety and productivity in the workplace. By utilizing these controls, Elite Lighting luminaires enable your customer's facility to run smarter, with the use of an easily controlled system through any platform.

CONTROL PROTOCOLS	SMART WHITE	LEDENGIN
<p>ELITE-CONNECT (EC-WC-TWH-HW-MVOLT) - Hard-wired, 0-10V, 120/277V wall mounted controller for CCT Tuning and Intensity Dimming through Simple Touch screen pad, provided by Elite Lighting. Programmable for up to 3-scenes, with a dimming range down to 1%. Applicable for office spaces, hospitality, educational, healthcare, and retail merchandising.</p> 	✓	✓
<p>DIM10 (0-10V 1% Dimming Standard) In order to Control the Color Tuning and dimming option with 0-10V driver you must dedicate two control inputs, one for the Dimming Control and another for CCT Tuning. Can be dimmed and tuned with 2 wall box dimmers and compatible with most control systems and/or daylight harvesting systems.</p> <p>DIM10-LUTRON Compatible with Lutron GRAFIK Eye QS or GRAFIK Eye 3000 by using two GRX-TVI Lutron 0-10V Dimming interfaces; one to tune and another to control dimming. Also compatible with Lutron VIVE system by using two FCJS-010 PowPak or FCJS-ECO EcoSystem PowPak modules per fixture; one to tune and one to control dimming.</p> 	✓	✓
<p>DMX (Available on Elite, LED Engin) - Compatible with Digital Multiplex Controller, Available with two options: DMX-512: Standard DMX Controller and DMX-RDM: DMX Controller with Remote Device Management.</p>	✓	✓
<p>LUTECO Compatible with Lutron EcoSystem. Compatible with Lutron GRAFIK Eye EcoSystem, Lutron Energi Saver node EcoSystem, or Lutron Quantum systems.</p>	✓	N/A
<p>DALI Compatible with Digital Addressable Lighting Interface, available with two options: DT6 and DT8.</p>	✓	✓