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
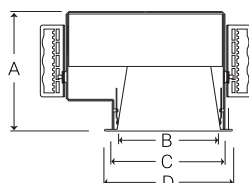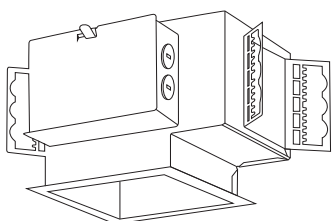
A: Height = 5-1/2"
B: Trim Aperture = 4-1/2"
C: Cut-Out = 5-1/8"
D: Trim Outside Dia = 5-3/4"

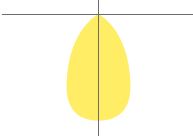| LUMENS	WATTAGES
1500L	18 W
1200L	14 W
900L	10 W

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
TUNABLE WHITE PLATFORM	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
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.

c(UL)us LISTED | PROUDLY ASSEMBLED in AMERICA | SAMEDAY SHIPPING Consult with Factory | 5 YEARS LIMITED WARRANTY

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	❏ 900L ❏ 1200L ❏ 1500L	❏ DIM10* ❏ DMX-512 ❏ DMX-RDM ❏ DALI ❏ BLE ❏ LUTH [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	❏ LED-4607 ❏ LED-4614 ❏ LED-4615	❏ CL-WH ❏ CL-SCH ❏ SHZ-WH ❏ SHZ-SHZ ❏ WT-WH ❏ WH-WH ❏ MB-WH ❏ CL-MB	❏ EC-WC-TWH-HW-MVOLT [1]

OPTICS	CRI		TRIMLESS	TRIMLESS FINISH
❏ MD	❏ 90+		❏ HH4SQTL-4607 ❏ HH4SQTL-4614 ❏ HH4SQTL-4615	❏ SHZ ❏ 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)

elite LED LIGHTING   w w w . i u s e e l i t e . c o m

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HH4SQ-LED-TWH-50K-27K-1200L-MD-HH4-4614-CL-WH TEST NO.: **LM-63-2002**

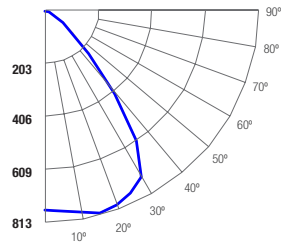| INPUT WATTS: **21.8**	LUMENS: **1274**	CRI: **90+**	EFFICACY: **58**	CCT: **4000K**	SPACING CRITERIA: **1.22**

Candle Power Distribution (Candelas)

203
406
609
813

90º 80º 70º 60º 50º 40º 30º 20º 10º

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/M^2)

Angle in Degrees	Average 0º	Average 45º	Average 90º
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

Cone of Light

Distance to Plane	Initial Footcandle at Nadir	Beam diameter
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.

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

Coefficients of Utilization - Zonal Cavity Method
Effective Floor Cavity Reflectance 0.20
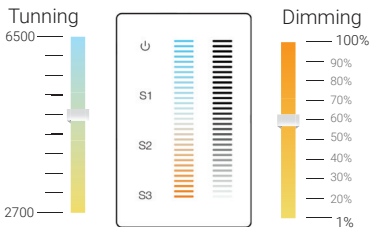
RC		80%			70%				50%			30%			10%			0%
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%
0	0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74
4	4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	69	67
5	5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	61
6	6	81	70	63	58	79	70	63	58	68	62	58	66	61	57	65	60	57	55
7	7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50
8	8	71	60	53	48	70	60	53	48	58	52	48	57	52	48	56	51	48	46
9	9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	53	48	44	42
10	10	64	52	46	41	62	52	45	41	51	45	41	50	45	41	49	44	41	39

ROOM CAVITY RATIO (left vertical axis label)

RC - Ceiling Cavity Reflectance RW - Wall Reflectance

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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	LED ENGIN
❏ **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.	Tunning 6500–2700 Dimming 100%-1%	✔	✔
❏ **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. ❏ **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.	Tunning 8000–1600 Dimming 100%-1%	✔	✔
❏ **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.		✔	✔
❏ **LUTECO** Compatible with Lutron EcoSystem. Compatible with Lutron GRAFIK Eye EcoSystem, Lutron Energi Saver node EcoSystem, or Lutron Quantum systems.		✔	N/A
❏ **DALI** Compatible with Digital Addressable Lighting Interface, available with two options: DT6 and DT8.		✔	✔

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