



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.

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

Has full adjustable aiming capability, allowing the double gimbal mechanism to rotate 360°, pivot 90°, and lock into place at any desired position.

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

LED Engine platform with tuning range of 6500K to 1800K (TWH-LENGN-65K-18K).

Control via DIM10, ELITE-CONNECT 0 10V, DMX512, DMX-RDM, BLE, DALI

LUMENETIX (Araya5 Module) platform with tuning range of 8000K to 1650K (TWH-LTX-80K-16K). For simple deployment, Lumenetix platform allows up to five scenes to be pre-programmed into the module and recalled at the venue using a 0 -10V. Lumenetix App. Commissioning of the module and re-programming of Scenes are done via the wireless Lumenetix App Via Smart Phone that connects to the embedded radio.

Control via DIM10, DMX512-RDM, LUTH, BLE, DALI, DLM
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 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: **HH4ADJ-LED-TWH-50K-27K-900L-DIM10-120-MD-90-HH4ADJ-4555-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE	EMERGENCY	TRIM TYPE	REFLECTOR/TRIM- FINISH	WALL MOUNT CONTROLLER
HH4ADJ-LED-TWH-50K-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 ¹	<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"/> HH4ADJ-4555	<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
HH4ADJ-LED-TWH-LTX-80K-16K	<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"/> BLE **	<input type="checkbox"/> WD <input type="checkbox"/> MD <input type="checkbox"/> ND	<input type="checkbox"/> 90+		TRIMLESS FINISH <input type="checkbox"/> SHZ <input type="checkbox"/> CL	
HH4ADJ-LED-TWH-LENGN-65K-18K	<input type="checkbox"/> 1100L	<input type="checkbox"/> DIM10 <input type="checkbox"/> DMX-512 <input type="checkbox"/> DMX-RDM	<input type="checkbox"/> WD <input type="checkbox"/> MD <input type="checkbox"/> ND	<input type="checkbox"/> 90+			

* 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 Engine 0-10V Platform ² (Lutron T Series 2 Channel Tunable White)

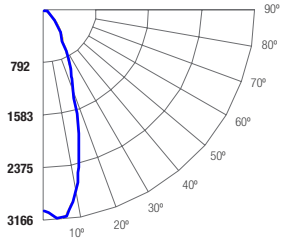


HH4ADJ-LED-TWH-50K-27K-1500L-ND-HH4-4501-CL

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

INPUT WATTS: **23.4** LUMENS: **1543** CRI: **90+** EFFICACY: **66** CCT: **4000K** SPACING CRITERIA: **0.64**

Candle Power Distribution (Candelas)



Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixt
0-20	812.35	52.60	52.60
0-30	1224.76	79.40	79.40
0-40	1419.04	91.90	91.90
0-60	1533.94	99.40	99.40
0-80	1542.56	99.90	99.90
0-90	1543.4	100.00	100.00

Luminance (Average candela/M²)

Angle in Degrees	Average		
	0°	45°	90°
45	16286	18146	29899
55	2328	5561	7063
65	878	1148	3662
75	432	690	986
85	159	1529	1991

Lumens Per Zone

Zone	Lumens
0-10	277.64
10-20	534.71
20-30	412.41
30-40	194.28
40-50	91.62
50-60	23.27
60-70	6.93
70-80	1.70
80-90	0.83

Candela Tabulation

0	
0	3037.50
5	3054.56
15	1853.85
25	910.23
35	231.33
45	91.59
55	10.62
65	2.95
75	0.89
85	0.11
90	0.04

Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

Cone of Light		
4.0	190	2.6 ft.
8.0	47.5	5.2 ft.
12.0	21.1	7.8 ft.
16.0	11.9	10.4 ft.
20.0	7.59	13.1 ft.
24.0	5.27	15.7 ft.
Distance to Plane	Initial Footcandle at Nadir	Beam diameter

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

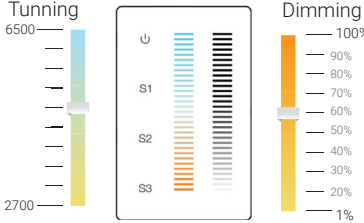


RC	80%				70%				50%				30%				10%				0%			
	RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	114	111	109	107	111	109	107	105	105	104	102	101	100	99	98	97	96	94						
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89						
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	90	87	85	84						
4	99	92	87	84	98	91	87	83	89	85	82	87	84	81	85	83	80	79						
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74						
6	91	83	77	73	89	82	77	73	81	76	73	79	75	72	78	74	72	70						
7	87	79	73	69	86	78	73	69	77	72	69	76	72	68	75	71	68	67						
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64						
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61						
10	77	68	63	60	76	68	63	59	67	62	59	66	62	59	66	62	59	58						

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	LUMENETIX	
<p><input type="checkbox"/> 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> 	✓	✓	N/A	
<p><input type="checkbox"/> 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><input type="checkbox"/> 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><input type="checkbox"/> DMX (Available on Elite, LED Engin and Lumenetix platforms) - 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><input type="checkbox"/> LUTECO Compatible with Lutron EcoSystem. Compatible with Lutron GRAFIK Eye EcoSystem, Lutron Energi Saver node EcoSystem, or Lutron Quantum systems.</p>	✓	N/A	✓	
<p><input type="checkbox"/> BLE - Dimming and CCT can be controlled via Bluetooth using an app, via Smartphones or tablets. Lumenetix (Araya5 Module) platform has a range of 8000K to 1650K (RGBW-LTX-80K-16K). For simple deployment, Lumenetix platform allows up to five scenes to be pre-programmed into the module and recalled at the venue using the Lumenetix App. Commissioning of the module and reprogramming of scenes are done via the wireless Lumenetix App, via Smartphone that connects to the embedded radio control via DMX512-RDM, LUTECO, BLE, DALI, DLM.</p>		N/A	✓	✓
<p><input type="checkbox"/> DALI Compatible with Digital Addressable Lighting Interface, available with two options: DT6 and DT8.</p>	✓	✓	✓	
<p><input type="checkbox"/> DLM The combination of the Blanco 3 with DLM from Legrand Wattstopper enables simple commissioning, synonymous with DLM and the enhanced features and flexibility.</p>	N/A	N/A	✓	