



- A: Height = 5-7/8"
- B: Trim Aperture = 4-1/8"
- C: Cut-Out = 4-3/8"
- D: Trim Outside Dia = 5-3/8"
- E: Width = 13-1/8"
- F: Length = 13-1/8"

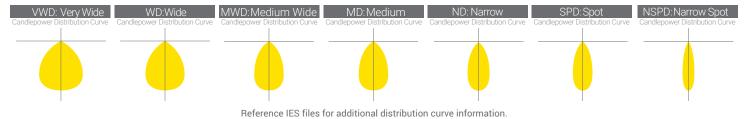
NOMINAL	ELITE	LED ENGIN
1500	18 W	-
1200	14 W	-
1100	-	15 W
900	10 W	-

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 Engin 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	VWD, WD, MWD, MD, ND, SPD, NSPD
TRIM OPTIONS	Adjustable, Wall Wash
REFLECTOR COLORS	CL (Semi-Specular Chrome), MB (Black), SHZ (Low Iridescent Satin Haze), WH (White)
FLANGE COLORS	Self-Flanged SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WH (White)
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













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

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 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 HH4ADJ-LED-TWH-65K-27K	□ 900L □ 1200L □ 1500L	□ DIM10* □ DMX-512 □ DMX-RDM □ DALI □ LUTH '	□ 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	□ HH4ADJ-4555	□ CL-WH □ CL-SCH □ SHZ-WH □ WH-WH □ WH-WH □ MB-WH □ CL-MB TRIMLESS FINISH	□ EC-WC-TWH-HW-MVOLT ¹
			OPTICS CRI □ VWD 70° □ 90+ □ WD 60° □ MWD 52° □ MD 36° □ ND 30° □ SPD 24° □ NSPD 15°			SHZ	

** 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)



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

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

TEST NO .: LM-63-2002 INPUT WATTS: 23.4 CRI: **90+** EFFICACY: 66 CCT: **4000K** SPACING CRITERIA: 0.64 LUMENS: **1543**

Candle Power Distribution (Candelas) 2375 3166

20° 10°

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						

Lumina	nce (Avera	age cande	ela/M²)	Lumens Pe	er Zone	Candela Tabulation		
Angle in Degrees	Average 0°	Average 45°	Average 90°	Zone 0-10 10-20	277.64 534.71	0 5	0 3037.50 3054.56	
45 55 65 75 85	16286 2328 878 432 159	18146 5561 1148 690 1529	29899 7063 3662 986 1991	20-30 30-40 40-50 50-60 60-70	412.41 194.28 91.62 23.27 6.93	15 25 35 45 55 65	1853.85 910.23 231.33 91.59 10.62 2.95	
ı				70-80 80-90	1.70 0.83	75 85 90	0.89 0.11 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%			80% 70%				50% 30%			6 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	99 95	119 111 104 98 92 87 83 79 75 71 68	119 109 101 93 87 82 77 73 69 66 63	119 107 97 90 84 78 73 69 66 62 60		82	116 107 99 92 87 81 77 73 69 66 63	116 105 96 89 83 78 73 69 66 62 59	94 89 85 81 77 73	80 76 72	111 102 94 88 82 77 73 69 65 62 59	106 101 96 92 87 83 79 76 72 69	106 100 94 89 84 79 75 72 68 65 62	106 99 92 86 81 76 72 68 65 62 59	98 94 90 85 82 78 75 71 68	102 97 92 87 83 78 74 71 68 65 62	102 96 90 85 80 76 72 68 65 62 59	100 94 89 84 79 74 70 67 64 61 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	SMARTWHITE	LEDENGIN
□ ELITE-CONNECT (EC-WC-TWH-HW-MVOLT) - Hardwired, 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. Dimming -100% -90% -90% -90% -50% -50% -50% -20% -20% -20% -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.	*	*
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.	*	*

