

Tunable White

10" Architectural High Lumen LED Downlight







HH10-1507 Flanged Wall Wash















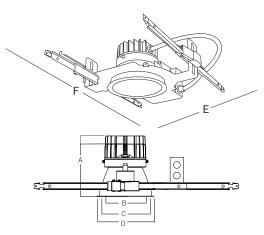












A 900L to 4000L: Height = 9" A 6000L to 8000L: Height = 12" B: Trim Aperture = 9-5/8" C: Cut-Out = 10-1/2" D: Trim Outside Dia = 11" E: Width = 17-1/2" F: Length = 16-1/2"

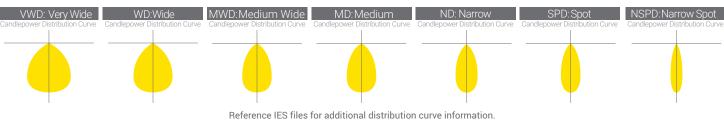
LUMENS	WATTAGES
2500L	30 W
2000L	24 W
1500L	18 W
1200L	14 W
900L	10 W

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, 2000 & 2500
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	VWD, WD, MWD, MD, ND, SPD, NSPD, 45°-50° visual cutoff
TRIM OPTIONS	Downlight, Wall Wash, Double 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















HH10-LE



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

The downlight mounting frame is a fabricated assembly constructed of 16-gauge steel, with C-channel mounting brackets, included. The versatility of the mounting bracket allows 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 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 if used with HH10-1501 Trim.

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: HH10-LED-TWH-50K-27K-900L-DIM10-120-MD-90-HH10-1501-CL-WH

SERIES	LUMENS	DRIVER	VOLTAGE		EMERGENCY	TRIM TYPE	REFLECTOR/TRIM- FINISH	WALL MOUNT CONTROLLER
HH10-LED-TWH-50K-27K	□ 900L	□ DIM10*	□ 120		☐ EMG-LED-10W	☐ HH10-1501	□ CL-WH	☐ EC-WC-TWH-HW-MVOLT 1
HH10-LED-TWH-65K-27K	□ 1200L □ 1500L	DMX-512 DMX-RDM	1 277		☐ EMG-LED-20W	Flanged Downlight	□ CL-SCH □ SHZ-WH	
	□ 2000L □ 2500L	DALI BLE	☐ MVOLT		Typical lumen output of the luminaire is up to 1000L	HH10-1507 Flanged Wall Wash	SHZ-SHZ WT-WH	
		□ LUTH ²			with EMG-LED-10W option & 2000L with EMG-LED-	HH10-1577 Flanged Double Wall	□ WH-WH	
					20W option in emergency mode. Contact the factory	Wash	□ MB-WH □ CL-MB	
			OPTICS	CRI	for details. Remote mounted installation	TRIMLESS	TRIMLESS FINISH	
			□ VWD 70°	□ 90+		☐ HH10-TL-1501	□ SHZ	
			□ WD 60°			Trimless Downlight-	□ CL	
			☐ MWD 52°			☐ HH10-TL-1507 Trimless Wall Wash		
			☐ MD 36°			Trittiess waii wasii		
			□ ND 30° □ SPD 24°					
			□ NSPD 15°					

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



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

^{**} For Details Consult Factory



6339

10°

8.0 12.0

16.0

20.0



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HH10-LED-TWH-50K-27K-2000L-ND-HH10-1501-CL-WH

TEST NO.: **LM-63-2002** CCT: **4000K** INPUT WATTS: 24.8 LUMENS: 2093 CRI: 90+ EFFICACY: 84 SPACING CRITERIA: 0.44

Candle Power Distribution (Candelas) 1585 3170 4754

Zone	Lumens	%Lamp	%Fixt
0-20	995.74	47.60	47.60
0-30	1502.05	71.80	71.80
0-40	1919.71	91.70	91.70
0-60	2085.57	99.60	99.60
0-80	2092.54	100.00	100.00
0-90	2093.37	100.00	100.00

Lumina	nce (Aver	age cand	ela/M²)	Lumens Po	er Zone	Candel	a Tabulation
Angle in Degrees	Average 0°	Average 45°	Average 90°	Zone 0-10 10-20	Lumens 412.84 582.89	0 5	0 6339.33 5150.18
45 55 65 75 85	3230 763 173 106 69	7321 1252 219 177 433	11944 2041 1029 232 537	20-30 30-40 40-50 50-60 60-70 70-80 80-90	506.31 417.66 142.87 22.99 5.65 1.33 0.83	15 25 35 45 55 65 75 85	1962.79 1044.09 752.22 72.67 13.92 2.32 0.87 0.19
1						90	0.05

Coefficients of Utilization - Zonal Cavity Method Effective Floor Cavity Reflectance 0.20

		RC		
1.5 ft.		RW	70%	
3.1 ft.	0	0	119	1
4.6 ft.	OM CAVITY RATIO	0 1 2 3 4 5 6 7	114 109	1
6.1 ft.	7	3	104 99	9
7.6 ft.	A V	5	94 90 86	200
9.2 ft.	ς V		86	1
Beam	ō	8 9	82 79	7

REAM DIA ME	ASURED AT 50% OF	NADIR F.C.
Distance to Plane	Initial Footcandle at Nadir	Beam diameter
24.0	11.0	9.2 ft.

99.1

44.0

24.8

15.8

	RC			80%		70%	ó			50%)		30%	ó		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	119 114 109 104 99 94 90 86 82 79 76	119 111 104 97 92 86 82 77 73 70 67	119 109 100 93 86 81 76 72 68 64 61	119 107 97 89 82 77 72 68 64 61 58	116 111 106 102 97 93 88 85 81 78	116 109 102 96 90 85 81 77 73 69 66	116 107 99 92 86 80 76 71 68 64 61	116 105 96 88 82 76 72 68 64 61 58	88 84 79 75 72 68	111 103 96 90 84 79 75 71 67 64 61	111 102 94 87 81 76 71 67 64 60 57	106 101 96 91 86 82 78 74 71 68 65	106 100 94 88 83 78 74 70 66 63 60	106 99 92 86 80 75 71 67 63 60 57	93 89 85 81 77 73 70 67	102 97 92 86 82 77 73 69 66 63 60	102 96 90 84 79 75 70 66 63 60 57	100 94 88 83 78 73 69 65 62 59

RC - Ceiling Cavity Reflectance RW - Wall Reflectance





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10"

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 PRO	TOCOLS	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.	Tunning 6500 U S1	•	~
□ 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 Dimming	*	*
□ DMX (Available on Elite, LED Engin) - Compatible with two options: DMX-512: Standard DMX Controller and DM Device Management.		•	~
□ LUTECO Compatible with Lutron EcoSystem. Compat Energi Saver node EcoSystem, or Lutron Quantum syste		*	N/A
□ DALI Compatible with Digital Addressable Lighting In	terface, available with two options: DT6 and DT8	s. 🗸	*

