

REFLECTOR/ FLANGE COLORS

CL-WH

CL-SCH

CL-BK

CL-BZ

SHZ-WH

SHZ-BK

SHZ-SHZ

0

MB-WH

MB-BK

D







BZ-BK

BZ-BZ

B

A: Height = 5-3/4" B: Trim Aperture = 4" C: Cut-Out = 4-1/2" D: Trim Outside Dia = 5-3/8" E: Width = 16" F: Length = 12-1/2"

WATTAGES

24 W

18 W

14 W

10 W

Based on 4000K, 90CRI with semi-specular chrome reflector.

LUMENS

20001

1500L

1200L

9001

WT-WH

WT-WT

0

W-WH

F

00

HH4-4501 Flanged Downlight

HH4-TL-4501 Trimless Downlight HH4-4507 Flanged Wall Wash

HH4-TL-4507

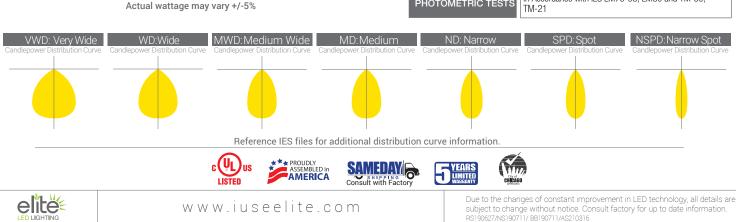


Trimless Wall Wash

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
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	WWD, WD, MWD, MD, ND, SPD, NSPD
TRIM OPTIONS	Downlight, Wall Wash, Double Wall Wash, Wet Location
REFLECTOR COLORS	CL (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), WT (Wheat), W (White), MB (Black). BZ (Bronze)
FLANGE COLORS	Self-Flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), BK (Black), BZ (Bronze)
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









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) and 6500K to 2700K (TWH-65K-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 HH4-4501 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

CP-City of Chicago Environmental Air (CCEA) marking for plenum applications.



Example: HH4-LED-TWH-50K-27K-900L-DIM10-120-MD-90-HH4-4501-CL-WH

SERIES	LUMENS	DRIVER	VOL	TAGE	EMERGENCY	TRIM TYPE	REFLECTOR/TRIM- FINISH	WALL MOUNT CONTROLLER
IH4-LED-TWH-50K-27K	 900L 1200L 1500L 2000L 	 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	 HH4-4501 Flanged Downlight HH4-4507 Flanged Wall Wash HH4-4577 Flanged Double Wall Wash TRIMLESS 	CL-WH SHZ-BK CL-SCH WT-WH CL-BK W-WH CL-BZ W-WH SHZ-WH MB-WH* SHZ-WH MB-W* SHZ-SHZ MB-BK* BZ-BK BZ-BK BZ-BZ TRIMLESS FINISH	EC-WC-TWH-HW-MVOLT 1
			OPTICS WWD 70° WWD 60° MWD 52° MD 36° ND 30° SPD 24° NSPD 15°		OTHER OPTIONS	 HH4-TL-4501 Trimless Downlight- HH4-TL-4507 Trimless Wall Wash 	CL MB SHZ WH	

* 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) * Black color trim is not ENERGYSTAR certified





INPUT WATTS: 18



Zonal Lumens Summary

Lumens Per Zone

CCT: 4000K



TEST NO.: LM-63-2002

SPACING CRITERIA: 0.64

Candela Tabulation

HH4-LED-TWH-50K-27K-1500L-ND-HH4-4501-CL CRI: 90+

LUMENS: 1543

	die Power D	Distribution	(Candelas)
792	$[] \) > \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ $	$\langle \cdot \rangle$	70°
1583	ΤŊ	\times	60°
2375	-TT	40°	50"
3166	10° 20	° 30°	
	С	one 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.

Zone	Lum		%Lan	•	%Fixt		in		Average	Average 45°	Average	Zon			imens	_	0	<u>0</u> 3037.
)-20	812.3		52.6		52.60		D	egrees	0-	45-	90-	0-1			77.64		5	3054.
)-30	1224.		79.4		79.40		_					10-			34.71		15	1853
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0-80	1542.	56	99.9	0	99.90			65	878	1148	3662	40-	50	9	1.62		30 45	231
)-90	1543.4	4	100.0	0	100.00			75	432	690	986	50-	60	2	3.27			
		·		-			_	85	159	1529	1991	60-	70	6	.93		55 65	10
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efficier	nts of U	tilizat	ion - Z	Zonal	Cavity	Met	hod										00	
	nts of U Floor Ca					Met	hod									_	90	
						70%				50%		30%)		10%	_	90	0
ective F		wity R	eflecta 80%				, 0	30%	10%		10%	30% 50%		10%	10% 50%	, D	90	0. 0% 0%
RC RC RW	loor Ca 70%	vity R 50%	eflecta 80% 30%	ance (10%	0.20	70% 70%	。 50%			50% 30		50%	30%		50%	30%	10%	0 0% 0%
ective F	Floor Ca	wity R	eflecta 80%	ance (0.20	70% 70%	, 0	30%	116		111			10%		, D		0%
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RC RC RW	Floor Ca 70% 119 114 109 104	50%	eflecta 80% 30% 119 109 101 93	10% 10% 119 107 97 90	0.20	70% 70%	50% 116 109 103 97	116 107 99 92	116 105 96 89	50% 30 111 111 105 104 99 97 94 91	111 102 94 88	50% 106 101 96 92	30% 106 100 94 89	106 99 92 86	50% 102 98 94 90	30% 102 97 92 87	102 96 90 85	0% 0% 100 94 89 84
RC RC RW	Floor Ca 70% 119 114 109 104 99 95	50% 119 111 104 98 92 87	eflecta 80% 30% 119 109 101 93 87 82	10% 119 107 97 90 84 78	0.20	70% 70% 116 111 107 102 98 93	50% 116 109 103 97 91 86	116 107 99 92 87 81	116 105 96 89 83 78	50% 30 111 111 105 104 99 97 94 91 89 85 85 80	111 102 94 88 82 77	50% 106 101 96 92 87 83	30% 106 100 94 89 84 79	106 99 92 86 81 76	50% 102 98 94 90 85 82	30% 102 97 92 87 83 78	102 96 90 85 80 76	0% 0% 100 94 89 84 79 74
RC RC RW	Floor Ca 70% 119 114 109 104 99 95 91	50% 50% 119 111 104 98 92 87 83	eflecta 80% 30% 119 109 101 93 87 82 77	119 107 97 90 84 78 73	0.20	70% 70% 116 111 107 102 98 93 39	50% 116 109 103 97 91 86 82	116 107 99 92 87 81 77	116 105 96 89 83 78 73	50% 30 111 111 105 104 99 97 94 91 89 85 85 80 81 76	111 102 94 88 82 77 73	50% 106 101 96 92 87 83 79	30% 106 100 94 89 84 79 75	106 99 92 86 81 76 72	50% 102 98 94 90 85 85 82 78	30% 102 97 92 87 83 78 78 74	102 96 90 85 80 76 72	0% 0% 100 94 89 84 79 74 70
ective F RC RW 0 1 2 3 4 5 6 7	Floor Ca 70% 119 114 109 104 99 95 91 87	50% 50% 119 111 104 98 92 87 87 83 79	eflecta 80% 30% 119 109 101 93 87 77 73	10% 119 107 97 90 84 78 73 69	0.20	70% 70% 116 111 107 102 98 93 93 39 36	50% 116 109 103 97 91 86 82 78	116 107 99 92 87 81 77 73	116 105 96 89 83 78 73 69	50% 30 111 111 105 104 99 97 94 91 89 85 85 80 81 76 77 72	111 102 94 88 82 77 73 69	50% 106 101 96 92 87 83 79 76	30% 106 100 94 89 84 79 75 75 72	106 99 92 86 81 76 72 68	50% 102 98 94 90 85 82 78 78 75	30% 102 97 92 87 83 78 74 71	10% 102 96 90 85 80 76 72 68	0% 0% 100 94 89 84 79 74 70 67
RC RC RW	Floor Ca 70% 119 114 109 104 99 95 91	50% 50% 119 111 104 98 92 87 83	eflecta 80% 30% 119 109 101 93 87 82 77	119 107 97 90 84 78 73	0.20	70% 70% 116 111 107 102 98 93 39	50% 116 109 103 97 91 86 82	116 107 99 92 87 81 77	116 105 96 89 83 78 73 69 66	50% 30 111 111 105 104 99 97 94 91 89 85 85 80 81 76	111 102 94 88 82 77 73	50% 106 101 96 92 87 83 79	30% 106 100 94 89 84 79 75	106 99 92 86 81 76 72	50% 102 98 94 90 85 85 82 78	30% 102 97 92 87 83 78 78 74	102 96 90 85 80 76 72	0% 0% 100 94 89 84 79 74 70

Luminance (Average candela/M²)

EFFICACY: 85

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 PR	SMARTWHITE	LEDENGIN	
□ 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 	~	~
 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 	*	*
DMX (Available on Elite, LED Engin) - Compatible wit two options: DMX-512: Standard DMX Controller and D Device Management.		~	~
LUTECO Compatible with Lutron EcoSystem. Compa Energi Saver node EcoSystem, or Lutron Quantum syst		~	N/A
DALI Compatible with Digital Addressable Lighting I	nterface, available with two options: DT6 and DT8.	~	~

