HH4-4501 Flanged Downlight

HH4-4507 Flanged Wall Wash

HH4-4577 Flanged Double Wall Wash
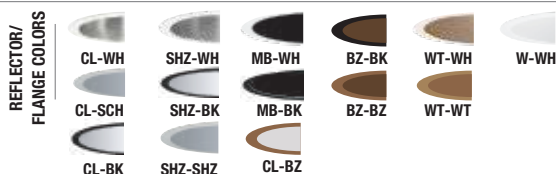
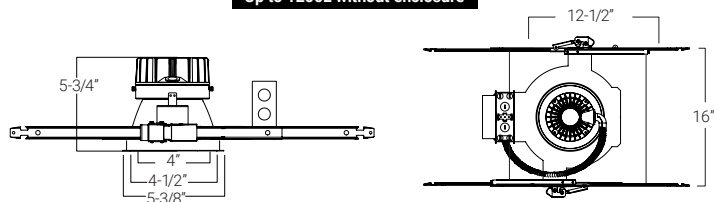**HH4-TL-4501** Trimless Downlight

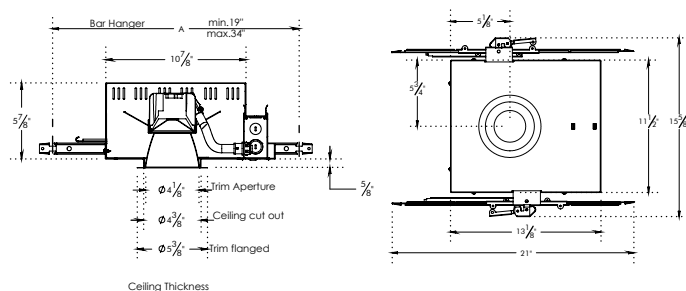**HH4-TL-4507** Trimless Wall Wash

HH4-4535-WH Polycarbonate

REFLECTOR/ FLANGE COLORS

CL-WH   SHZ-WH   MB-WH   BZ-BK   WT-WH   W-WH

CL-SCH   SHZ-BK   MB-BK   BZ-BZ   WT-WT

CL-BK   SHZ-SHZ   CL-BZ

Up to 1200L without enclosure

5-3/4"
12-1/2"
16"
4"
4-1/2"
5-3/8"

Up to 2000L with enclosure

Bar Hanger
min.19"
max.34"
10 7/8"
5 7/8"
5 7/8"
11 1/2"   15 5/8"
5/8"

Φ 4 1/8" — Trim Aperture
Φ 4 3/8" — Ceiling cut out
Φ 5 3/8" — Trim flanged
5/8"

Ceiling Thickness

13 5/8"
21"

NOMINAL LUMENS	DELIVERED LUMENS	WATTAGE
2000	2144	24W
1500	1699	18W
1200	1341	14W
900	995	10W
NOMINAL LUMENS (HP)	DELIVERED LUMENS (HP)	WATTAGE (HP)
1200	1401	12W
2000	2059	18W

Based on 4000K, 90+CRI with semi-specular chrome reflector.
Actual wattage may vary +/-5%

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.
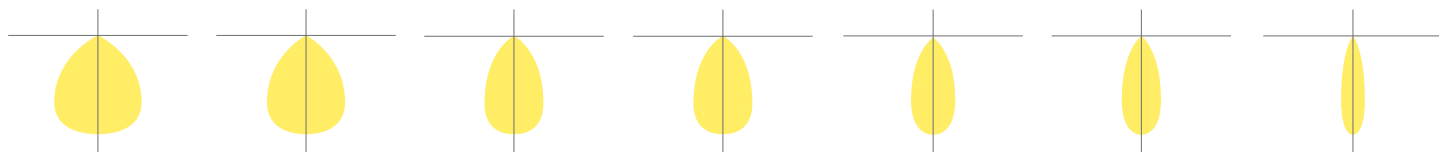
OPTICS AND REFLECTOR

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.

LUMENS	900, 1200, 1500, 2000
CCT & DYNAMIC PLATFORMS	22K, 27K, 30K, 35K, 40K, 50K, Tunable White, Dims to Warm, RGB + White
CRI	90+ Standard, 98+ Optional
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTIONS	VWD, 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) WAM(White Anti Macrobial), Custom RAL
FLANGE COLORS	Self-Flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), BK (Black), BZ (Bronze)
DIMMING	0-10V Flicker Free 1% Dimming Standard (DIM10), LUTH, LUTFTB, ELDO10.1-LIN, ELDODMX.1, ELDODALI.1, DIMTR, BLE,POE,ELDO10-LOG, XSR, DIM10-AUX, DIM10-0-Off
EMERGENCY	10W - Up to 1000L Output 20W - Up to 2000L Output EMG-LED-G2-10W-SDT - Self Diagnostic (Consult Factory) GTD-UL924
LIFETIME	L70>60,000-hour reported lifetime L70>200,000-hour calculated lifetime
PHOTOMETRIC TESTS	In Accordance with IES LM79-08, LM80 and TM-30, TM-21

[1] 3000 Lumens is not ENERGY STAR certified   * Only Available on 85+ CRI

VWD: Very Wide	WD: Wide	MWD: Medium Wide	MD: Medium	ND: Narrow	SPD: Spot	NSPD: Narrow Spot

Reference IES files for additional distribution curve information.

PROUDLY ASSEMBLED in AMERICA   QUICKSHIP CONSULT FACTORY   5 YEARS LIMITED WARRANTY   FOR WET LOCATION   ENERGY STAR   CITY OF CHICAGO APPROVED   BABAA BUILD AMERICA ACT

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 & BRACKETS

Housing is designed for IC and NON-IC rated installations with direct contact to insulation. The die-formed construction allows for heat dissipation and rust protection.

DRIVER ELECTRICAL INFORMATION

The LED driver is rated for 50 to 60Hz at 120V/277V, also available in 347V 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

DIM10 - 0-10V dimming on either MVOLT 120, 277 or 347V. Dimmable down to 1% of initial lumens, standard.

DIMTR - Triac & Electronic low voltage dimming. Available in 120V, and up to 6000 lumens only.

LUTH - Lutron LDE1 Hi-Lume 1% Eco System LED driver with Soft-on, Fade to Black dimming technology.

LUTFB - Lutron PEQ0E Hi-Lume Premier 1% Eco System LED Driver with Soft-on, Fade to Black dimming technology. Available on all luminaires up to 1500 lumens.

ELDO10.1-LIN - EldoLED SoloDrive 0-10V. Dimming down to 0.1%. Linear dimming curve.

DALI - DALI DT6, DT8 dimming down to 1%.

ELDODMX - EldoLED PowerDrive dimming down to 0.1%.

BLE - Luminaires may be controlled, grouped, scheduled or placed in scenes and or zones Via Cassambi Bluetooth 4.0 App.

DIM10-0-OFF - Program DIM10-to OFF with linear dimming curve 0.1%

ELDO10- LOG - ELDO10-LOG with logarithmic dimming curve.

POE - Power-over-Ethernet Depending on the PoE manufacturer selected, The Node will install the node in factory as either integral to the luminaire or as a remote module.

XSR - Xitanium SR Dimming

DIM10-AUX - 0-10V with Auxiliry power

LED DYNAMIC PLATFORM OPTIONS

Tunable White with Smart White Technology utilizing the Lumenetix Platform allows you to color tune the luminaire via various controls. Create the perfect environment for the desired use of the space, while maintaining a CRI of 90+ across the tunable range of 8000 to 1650K. (Click here for more details)

Dims to Warm with Smart Dimming Technology. At 100% full brightness the luminaire is at 3000K. When dimmed to 1%, the light transitions to 1800K, creating a warm ambiance within the space. (Click here for more details)

RGB+White with Smart Hue Technology provides full color mixing of RGB and white colors. Utilizing the Lumenetix Platform allows you to choose from unlimited RGB color options, via various controls. Ideal for Circadian Rhythm applications or to create the perfect human centric environment. (Click here for more details)

OPTICAL

Modular Optics Available with 15°, 24°, 30°, 36°, 52°, 60° and 70° field interchangeable optics design with 45° cutoff to source.
Top-down flash characteristic for superior glare control. The optics attached directly the light engine to the Trim for complete optical alignment and sufficient efficacy.

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.

U.S Patent No. - D685,118S
CP-City of Chicago environmental air (CCEA) marking for plenum applications.
Energy Star and California Title 24 compliant
Optional Black color trim is not ENERGYSTAR certified and won't meet the requirement.
BAA- Buy American Act Compliant government procurement requirements under FAR, DFARS and DOT regulations.

Example: **HH4IC-LED-2000L-DIM10-MVOLT-MD-40K-90-HH4-4501-CL-WH**

SERIES	LUMENS	DRIVER	VOLTAGE	CCT	EMERGENCY	TRIM TYPE	REFLECTOR/FLANGE COLORS		
HH4IC-LED	❏ 900L [1]	❏ DIM10	❏ 120	❏ 22K	❏ EMG-LED-10W	❏ HH4-4501	❏ CL-WH	❏ W-WH	❏ SHZ-SHZ
	❏ 1200L [1]	❏ DIMTR [3] [5]	❏ 277	❏ 27K	❏ EMG-LED-20W	Flanged Downlight	❏ CL-SCH	❏ MB-WH*	❏ SHZ-BK
	❏ 1500L [2]	❏ LUTH	❏ MVOLT	❏ 30K	❏ INTG-EMG-LED-10W	❏ HH4-4507	❏ CL-BK	❏ MB-BK*	❏ WT-WH
	❏ 2000L [2]	❏ LUTFTB [6]	❏ 347	❏ 35K	❏ INTG-EMG-LED-20W	Flanged Wall Wash	❏ CL-BZ	❏ BZ-BK	❏ WT-WT
	❏ 1200L-HP	❏ ELDO10-.1-LIN	(DIM10 only)	❏ 40K	❏ EMG-LED-G2-10W-SDT*	❏ HH4-4577	❏ SHZ-WH	❏ BZ-BZ	* Black color trim is not ENERGYSTAR certified
	❏ 2000L-HP	❏ ELDODALI-.1		❏ 50K [4]	❏ GTD-UL924	Flanged Double Wall Wash	❏ RAL	❏ WAM	
		❏ ELDODMX-.1			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.	❏ HH4-4535		White Anti Macrobial	
		❏ BLE			Remote mounted installation	Polycarbonate non conductive with "Dead Front" construction	**FLANGE COLORS**		
		❏ POE			• Consult Factory for Self Diagnostic		❏ WH	❏ BZ	❏ BK
		❏ DIM10-0-OFF					❏ SCH	❏ SHZ	
		❏ ELDO10-LOG	**OPTICS**	**CRI**	**OPTIONS**				
		❏ XSR	❏ VWD 70°	❏ 90+	❏ CP (Chicago Plenum)				
		❏ DIM10-AUX	❏ WD 60°	❏ 98+ [5]	❏ BAA				
			❏ MWD 52°	❏ Xicato 95 [7]	❏ HP (High Performance) [8]	**TRIMLESS**	**TRIMLESS FINISH**		
			❏ MD 36°		❏ Remote LED Driver Mounting	❏ HH4-TL-4501	❏ CL		
			❏ ND 30°			Trimless Downlight	❏ MB		
			❏ SPD 24°			❏ HH4-TL-4507	❏ SHZ		
			❏ NSPD 15°			Trimless Wall Wash	❏ WH		

[1] 900L, 1200 lumen without enclosure [2] 1500L, 2000 lumen with enclosure [3] **DIMTR** is available in 120V only [4] **50K** series are available with 85+ CRI only

[5] **98+**CRI is available in 27K, 30K and 40K only [6] LUTFTB Available for luminaires up to 1500L [7] Available on 30K, 35K, 40K [8] 3000K, 3500K and 4000K based on 90 CRI

-Reference last page for Control Options   * Only Available on 85+ CRI

elite LED LIGHTING
www.iuseelite.com

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.

1- Luminaire will be shipped with Powerpacks pre-installed, ready to be integrated to designated contol systems
2- Luminaire will be shipped with Sensors installed on the luminaire, allowing for individual luminaire control. Luminaires will be ready to be integrated with designated control systems
3- Luminaire will be shipped with Sensors to be remotely installed on the ceiling. Luminaires will be ready to be integrated with designated control systems

BRAND	NX LIGHTING CONTROLS	LUTRON	enlighted	LEVITON	ENCELIUM	PHILIPS EasySense	legrand
CONTROL UNIT	❑ NXFM-1R2D-O-UNV NX Fixture Module, Offset, 1 Relay, 2 0-10V Dimming Channels, 120-347VAC, Blue	❑ FCJS-010 Lutron Vive 0-10V Individual Pow Pak (Luminare is shipped Vive Enabled) [14] ❑ FCJS-ECO Lutron Vive Eco-system Pow Pak (Luminare is shipped Vive Enabled) ❑ A-WN-D01-RF-WH Athena wireless node (RF only) (White) ❑ A-WN-D01-OCC-WH Athena wireless node with sensor (White)	❑ CU-4E-FMH Fixture Mount Control Unit [15]	❑ ZL027 –N0W Intellect Power Control Module [16] ❑ ZL027 –N0W Intellect Power Control Module [16]	❑ EN-WCM2-ZB-DR Wireless Control Module [17] ❑ EN- ALC-ZB-BK-DR Wireless Area Lighting Control Module [17] ❑ ZBHA-CLM-DIM-ENC Connected Lighting Module DIM [17]	❑ SBR -BS Xitanium SR Bridge [18]	❑ LMFC-011 ON/OFF/0-10V dimming fixture controller [19]
INTEGRAT SENSOR	N/A	N/A	N/A	N/A	N/A	N/A	N/A
*WIRELESS OCCUPANCY SENSOR	❑ NXSMP2-SMI NX Slide Mount Indoor Sensor Module	N/A	N/A	N/A	N/A	N/A	❑ LMDC-100 Dual technology PIR Ceiling Mount Occupancy Sensor [3]
*WIRELESS DAYLIGHT SENSOR	❑ LUXSTATLS Luxstat Light Sensor for Luxstat Control Modules, 3 to 6000 FC	N/A	N/A	N/A	N/A	N/A	❑ LMLS-400 Single zone switching and dimming digital photosensor [3]
*WIRELESS OCCUPANCY & DAYLIGHT SENSOR	❑ NXSMDT Indoor Ceiling Mount Sensor - OMNI	N/A	❑ SU-5E-IoT IoT Node Micro Sensor [3] ❑ SU-5E-CL Connected Lighting Micro Sensor [3] ❑ SU-5E-IL Independent Lighting / Enlighted One Micro Sensor [3] ❑ SU-5S-H-(IoT/CL/IL) Surface Mount Sensor [3] **(Must be specified with CU-4E-FMH Control Unit)**	❑ ZL00J -T0W Intellect Intelligent Fixture Control System [3] **(Must be specified with ZL027 –N0W Control Unit)**	❑ EN-CLM-PIR-DD-ZB SensiLUM™ Wireless Integrated Sensor ❑ EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors [3] **(Must be specified with EN-WCM2-ZB-DR or EN-ALC-ZB-BK-DR Control Unit)**	❑ SNS 212 EasyAir Daylight and Occupancy sensor	N/A
ACCESORIES	N/A	N/A	❑ TMC-SU-5E Tile Mount Carrier ❑ CBL-5E-CU4-30N 30 inch Sensor Cable for CU-4 and IoT ReadyTM drivers ❑ CBL-5E-CU4-7F 7 foot Sensor Cable for CU-4 and IoT ReadyTM drivers	N/A	N/A	N/A	N/A
NOTES	N/A	4- Luminaire will be compatible with Lutron LRF2-OCR2B-P-WH Ceiling mount360° occupancy/va-cancy sensor & LRF2-DCRB-WH Ceiling-mount daylight sensor. Sensors must be ordered through Lutron.	5- Luminaire will be compatible with ENLIGHTED SU-5E-IoT, SU-5E-CL, SU-5E-IL, SU-5S-H, Sensors.	6-Luminaire will be compatible with Leviton Intellect App & Keypad Room Controller	7-Luminaire will be compatible with EN-SCPPH-1500-ZB Wireless Passive Infrared Occupancy and Photo Sensors	8-Luminaire will be compatible with Philips field and wireless switch.	9-Luminaire will be compatiable with DLM Room control system LMPB-100. DLM control system must be orderd through Legrand.

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

Due to the changes of constant improvement in LED technology, all details are subject to change without notice. Consult factory for up to date information.