

Tunable White

5" Architectural High Lumen LED Downlight - Retrofit



















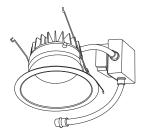


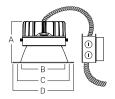












- A: Height = 5-3/4"
- B: Trim Aperture = 5" C: Cut-Out = 5-1/2"
- D: Trim Outside Dia = 6-3/8"

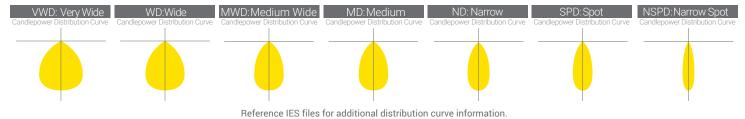
| NOMINAL | ELITE | LED ENGIN |
|---------|-------|-----------|
| 1500 | 18 W | - |
| 1200 | 14 W | - |
| 1100 | - | 15 W |
| 900 | 10 W | - |

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) |
| 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), WH (White), MB (Black) |
| FLANGE COLORS | Self-flanged WH (White), SCH (Semi-Specular Chrome), SHZ (Low Iridescent Satin Haze), MB (Black) |
| 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 |

















5" Architectural High Lumen LED Downlight - Retrofit

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

Designed for easy installation into an existing incandescent or CFL downlight mounting frame, converting the luminaire into an energy efficient LED downlight. Flex is designed to attach into the existing junction box, with additional brackets available for up to a 2-1/2" ceiling thickness.

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.

Five-year warranty for parts and components. (Labor not included)

LISTINGS

c-UL-us - Listed for Wet Location if used with HH5-5501 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: HHJ5-LED-TWH-50K-27K-900L-DIM10-120-MD-90-HH5-5501-CL-WH

| SERIES LUMER | NS DRIVER | VOLTAGE | EMERGENCY | TRIM TYPE | REFLECTOR/TRIM- FINISH | WALL MOUNT CONTROLLER |
|---|--------------|---|--|---|---|------------------------|
| HHJ5-LED-TWH-50K-27K □ 900L □ 1200 □ 1500 | OL □ DMX-512 | □ 120 □ 277 □ MVOLT OPTICS CRI □ VWD 70° □ 90+ □ WD 60° □ MWD 52° □ MWD 52° □ MD 36° □ ND 30° □ SPD 24° □ NSPD 15° | □ 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 | □ HH5-5501 Flanged Downlight □ HH5-5507 Flanged Wall Wash □ HH5-5577 Flanged Double Wall Wash | □ CL-WH □ CL-SCH □ SHZ-WH □ SHZ-SHZ □ WT-WH □ WH-WH □ MB-WH □ CL-MB | □ EC-WC-TWH-HW-MVOLT ¹ |

** 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.

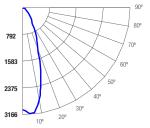


Zonal Lumens Summary

HHJ5-LED-TWH-50K-27K-1500L-ND-HH5-5501-CL

CCT: 4000K INPUT WATTS: 18 LUMENS: **1543** CRI: **90+** EFFICACY: 85 SPACING CRITERIA: 0.64

Candle Power Distribution (Candelas)



| 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 Po | er Zone |
|-------------|------------|-----------|---------|-----------|---------|
| Angle in | - | Average | • | Zone | Lum |
| Degrees | 0° | 45° | 90° | 0-10 | 277. |
| | | | | 10-20 | 534 |
| 45 | 16286 | 18146 | 29899 | 20-30 | 412 |
| 55 | 2328 | 5561 | 7063 | 30-40 | 194 |
| 65 | 878 | 1148 | 3662 | 40-50 | 91.6 |
| 75 | 432 | 690 | 986 | 50-60 | 23.2 |
| 85 | 159 | 1529 | 1991 | 60-70 | 6.93 |
| | | | | 70-80 | 1.70 |
| | | | | 80-90 | 0.83 |

| r Zone | Candela | a Tabulation |
|--|--|---|
| Lumens | | <u>0</u> |
| 277.64 534.71 412.41 194.28 91.62 23.27 6.93 1.70 | 0 5 15 25 35 45 55 65 75 | 3037.50 3054.56 1853.85 910.23 231.33 91.59 10.62 2.95 0.89 |
| 0.83 | 85 | 0.11 |
| | 90 | 0.04 |

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

| 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.

| | RC | | | 80% | | 709 | % | | | 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 | 119 114 109 104 99 95 91 87 83 80 77 | 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 | 116 111 107 102 98 93 89 86 82 79 76 | 116 109 103 97 91 86 82 78 74 71 68 | 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 | 111 104 97 91 85 80 76 72 69 65 62 | 111 102 94 88 82 77 73 69 65 62 59 | 106 101 96 92 87 83 79 76 72 69 66 | 106 100 94 89 84 79 75 72 68 65 62 | 106 99 92 86 81 76 72 68 65 62 59 | 94 90 85 82 78 75 71 | 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 |

RC - Ceiling Cavity Reflectance RW - Wall Reflectance



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HHJ5-LED 5" Architectural High Lumen LED Downlight - Retrofit

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 |
|--|------------|----------|
| Dimming 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. | ~ | ~ |
| □ 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 | * | ~ |

