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**Tunable White**

3” Architectural High Lumen Adjustable LED Downlight

**FEATURES**

A small aperture, architectural LED downlight that delivers the ultimate in uncompromised quality and performance, with precise, glare-free illumination, and unmatched flexibility. With the use of a single universal housing, it utilizes a multitude of trims, field changeable optics, and is fully adjustable to any beam angle, up to 45 degrees, with a full 360-degree horizontal rotation. Whether it’s high-end architectural, hospitality, commercial, residential, or retail, the ER3 provides the most innovative solution to any design application that requires a small aperture.

**TRIM OPTIONS**

- ROUND FLANGED
- ROUND TRIMLESS
- SQUARE FLANGED
- SQUARE TRIMLESS

**LUMENS**

<table>
<thead>
<tr>
<th>NOMINAL LUMENS</th>
<th>ELITE</th>
<th>LUMENETIX</th>
<th>LEDEngine</th>
</tr>
</thead>
<tbody>
<tr>
<td>1500</td>
<td>18W</td>
<td>20W</td>
<td>-</td>
</tr>
<tr>
<td>1200</td>
<td>16W</td>
<td>15W</td>
<td>-</td>
</tr>
<tr>
<td>1100</td>
<td>-</td>
<td>-</td>
<td>11W</td>
</tr>
<tr>
<td>900</td>
<td>12W</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

**TUNABLE WHITE PLATFORMS**

- Elite Platform: TWH-50K-27K (50K to 27K)
- Lumenetix: TWH-LTX-80K-16K (80K to 16K)
- LED Engin: TWH-LENGN-65K-18K (65K to 18K)

**CRI**

- 90+ Standard

**COLOR QUALITY**

- 2 Step MacAdam Ellipse

**DISTRIBUTION PATTERNS**

- WD (Wide Distribution), MD (Medium Distribution), and ND (Narrow Distribution), 45-degree visual cutoff

**TRIM OPTIONS**

- Downlight, Lensed Downlight, Wall Wash, Adjustable Accent, and Pinhole, Square and Round Trim and Trim-less Options

**REFLECTOR COLORS**

- WH (White), CL (Chrome), SHZ (Satin Haze), BK (Black)

**FLANGE COLORS**

- WH (White)

**DIMMING**

- 1% Dimming Standard, 0-10V (DIM10), DMX-512, DMX-RDM, BLE, LUTECON, DALI, DLM

**EMERGENCY**

- 10W - Up to 1000L Output (Bodine BSL310)
- 20W - Up to 2000L Output (Bodine BSL20)

**LIFETIME**

- L70 at 50,000 Hours

**PHOTOMETRIC TESTS**

- In Accordance with IES LM79-08, LM80 and TM-30, TM-21

**CCEA OPTION**

- For CCEA approved ER3 Family, please contact Elite Lighting for more information.

Reference IES files for additional distribution curve information.

W: Wide

M: Medium

N: Narrow

W: Wash
TRIM OPTION
Post painted powder coated Die-Cast trim ring available in white and custom colors. Please consult factory for custom paint color options. Collar and trim rotate jointly. Solite Frosted Lens is standard on all trims. Please consult factory for additional lens options. Available in Open Downlight, Lensed Downlight, Pinhole Downlight, Slot, adjustable downlight. Accent or lensed adjustable wall wash. Trims attach to the housing with piano springs for snug fit and zero light leakage.

TRIM-LESS OPTION
Die-Cast perforated mesh cover intended for installation in drywall or plaster ceilings. Mudding maybe applied right up to the edge of the luminaire to provide seamless appearance. TrimLess accessory is secured to the housing to prevent fractures in the ceiling and or drywall during and after installation. Trims attach to the housing with piano springs for snug fit and zero light leakage. Available in Open Downlight, Lensed Downlight, Pinhole Downlight, Slot, adjustable downlight. Accent or lensed adjustable wall wash.

HOUSING
Designed for new construction installations and suitable for use in IC and Non IC applications. Thermally protected, specification grade adjustable recessed housing. For new construction insulated ceilings where housing will be in direct contact with insulation. Die-formed all aluminum construction. Matt black painted for maximum heat dissipation, rust protection and glare free illumination.

MOUNTING
Preinstalled bar hangers allow housing to be positioned and locked at any point within a 24” joist span. They can be positioned on either the long or short axis of the housing and can be shortened for 12” joists. Bar hangers can fit onto T- Bar spline with additional slots and holes for special mounting methods if necessary. Butterfly brackets are also provided and are constructed from 18-gauge steel and can be adjusted vertically. Butterfly brackets may be installed with 3/4” or 1-1/2” lathing channel, 1/2” EMT, or optional C-Channel mounting bars are available.

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

LISTINGS
c-UL-us - Listed for Wet Location if used with 1328 or 1307 Trims.
CP - City of Chicago Environmental Air (CCEA) marking for plenum applications (option).

OPTICS
Optical variation and choices allow for a custom solution to any application. Narrow at 25°, Medium at 35° and Wide at 50°.

AIMING
Proprietary hot aiming system allows the lamp to be positioned at the perfect setting to ensure that the luminaire at any angled position from 0° to 45°.

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 (Lutron PSQ02U T-series 1% 2-channel tunable white driver), DMX512-RDM, DALI LED Engin platform with tuning range of 6500K to 1800K (TWH-LENGN-65K-18K).
Control via DIM10, ELITE-CONNECT 0 10V, DMX512, DMX-RDM, BLE, DALI LUMENETIX (Araya5 Module) platform with tuning range of 8000K to 1650K (TWH-LTX-80K-16K). For simple deployment, Lumenetix platform allows up to five scenes to be pre-programmed into the module and recalled at the venue using a 0 -10V. Lumenetix App. Commissioning of the module and re-programming of Scenes are done via the wireless Lumenetix App Via Smart Phone that connects to the embedded radio.
Control via DIM10, DMX512-RDM, LUTECO, BLE, DALI, DLM Junction box and Driver can be accessed from below the ceiling and above the ceiling. Junction Box is Listed for through branch circuit wiring.

LED DYNAMIC PLATFORM OPTIONS
- 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), Lumenetix Platform (80K-16K) and LED Engin Platform (65K-18K)

TOOL-LESS ADJUSTABILITY
Of the luminaire is to ensure whatever position is desired up to 45 degrees the beam angle to 1 degree increments, which are marked at 5 degree increments.

360° HORIZONTAL LOCKING
Effortlessly rotates on a 360° horizontal rotational smooth slotted groove track system.

NUMERICAL DEGREE
Allows for the luminaires to be easily field adjusted for precision, performance, and versatility. At installation, you have the ability to lock the beam angle to 1 degree increments, which are marked at 5 degree increments.
### 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 fixtures enable your customer’s facility to run smarter, with the use of an easily controlled system through any platform.

<table>
<thead>
<tr>
<th>CONTROL PROTOCOLS</th>
<th>SMART WHITE</th>
<th>LEDENGIN</th>
<th>LUMENETIX</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELITE-CONNECT (EC-WC-TWH-HW-MVOLT)</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>DIM10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IM10-LUTRON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DMX</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>LUTENO</td>
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<td></td>
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<tr>
<td>BLE</td>
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<td></td>
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<tr>
<td>DALI</td>
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<tr>
<td>DLM</td>
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<td></td>
</tr>
</tbody>
</table>

**CONTROL PROTOCOLS**

- **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.
- **IM10-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.
- **LUTENO** Compatible with Lutron EcoSystem. Compatible with Lutron GRAFIK Eye EcoSystem, Lutron Energi Saver node EcoSystem, or Lutron Quantum systems.
- **BLE** - Dimming and CCT can be controlled via Bluetooth using an app, via smartphones or tablets. Lumenetix (Araya5 Module) platform has a range of 8000K to 1650K (RGBW-LTX-80K-16K). For simple deployment, Lumenetix platform allows up to five scenes to be pre-programmed into the module and recalled at the venue using the Lumenetix App. Commissioning of the module and reprogramming of scenes are done via the wireless Lumenetix App, via Smart Phone that connects to the embedded radio control via DMX512-RDM, LUTECO, BLE, DALI, DLM.
- **DALI** Compatible with Digital Addressable Lighting Interface, available with two options: DT6 and DT8.
- **DLM** The combination of the Blanco 3 with DLM from Legrand Wattstopper enables simple commissioning, synonymous with DLM and the enhanced features and flexibility.
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3" Architectural High Lumen Adjustable LED Downlight

Round Flanged Trim Options

FLANGED OPTION:
Post-painted powder coated Die-Cast trim ring available in white and custom colors (Please consult factory for custom paint color options). Collar and trim rotate jointly, and a Solite frosted lens is standard on all trims (Please consult factory for additional lens options). Available in Open Downlight, Lensed Downlight, Pinhole Downlight, Slot, Adjustable Downlight Accent or Lensed Adjustable Wall Wash. Trims attach to the housing with piano springs for snug fit and zero light leakage.

FINISH

WH-White
CL-Chrome
SHZ-Satin Haze
BK-Black

TRIMLESS OPTION:
Die-Cast perforated mesh cover intended for installation in drywall or plaster ceilings. Mudding may be applied right up to the edge of the luminaire opening to provide a seamless appearance. Trimless accessory is secured to the housing to prevent fractures in the ceiling and/or drywall during and after installation. Trims attach to the housing with piano springs for snug fit and zero light leakage. Available in Open Downlight, Lensed Downlight, Pinhole Downlight, Slot, Adjustable Downlight Accent or Lensed Adjustable Wall Wash.

Note:
Additional lens filters must only be used on open non-lensed downlight trim options
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3" Architectural High Lumen Adjustable LED Downlight

**Square Flanged Trim Options**

- **ES3-F-1302 Open Downlight**
- **ES3-F-1363 Adjustable Accent**
- **ES3-F-1314 Pinhole Downlight**

**Square Trim-less Options**

- **ES3-TL-1302 Open Downlight**
- **ES3-TL-1363 Adjustable Accent**
- **ES3-TL-1314 Pinhole Downlight**

**FLANGED OPTION:**
Post-painted powder coated Die-Cast trim ring available in white and custom colors (Please consult factory for custom paint color options). Collar and trim rotate jointly, and a Solite frosted lens is standard on all trims (Please consult factory for additional lens options). Available in Open Downlight, Lensed Downlight, Pinhole Downlight, Slot, Adjustable Downlight Accent or Lensed Adjustable Wall Wash. Trims attach to the housing with piano springs for snug fit and zero light leakage.

**FINISH**

- **WH-White**
- **CL-Chrome**
- **SHZ-Satin Haze**
- **BK-Black**

**TRIMLESS OPTION:**
Die-Cast perforated mesh cover intended for installation in drywall or plaster ceilings. Mudding may be applied right up to the edge of the luminaire opening to provide a seamless appearance. Trimless accessory is secured to the housing to prevent fractures in the ceiling and/or drywall during and after installation. Trims attach to the housing with piano springs for snug fit and zero light leakage. Available in Open Downlight, Lensed Downlight, Pinhole Downlight, Slot, Adjustable Downlight Accent or Lensed Adjustable Wall Wash.

**Note:**
Additional lens filters must only be used on open non-lensed downlight trim options

Square Trimless Option Only Offer With Ceiling Access
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**SOFT FOCUS**
**FROSTED**
**ULTRAVIOLET**

**TRIM OPTIONS**

**ROUND TRIM OPTIONS**

<table>
<thead>
<tr>
<th>FLANGE-LESS TRIM OPTIONS</th>
<th>FINISH</th>
<th>LENS FILTERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ER3-TL-1328* <strong>- Lensed Downlight (wet Location)</strong></td>
<td>W-White</td>
<td>BP8MR16-FR - FROSTED</td>
</tr>
<tr>
<td>ER3-TL-1307** - Lensed Wall Wash (wet Location)**</td>
<td>CL - Chrome</td>
<td>BP8MR16-SF - SOFT FOCUS</td>
</tr>
<tr>
<td>ER3-TL-1314** - Pinhole Downlight</td>
<td>SHZ - Satin Haze</td>
<td>BP8MR16-CL - CLEAR</td>
</tr>
<tr>
<td>ER3-TL-1303** - Slot</td>
<td>BK - Black</td>
<td>BP8MR16-UV - ULTRAVIOLET</td>
</tr>
</tbody>
</table>

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<th>FINISH</th>
<th>LENS FILTERS</th>
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<tbody>
<tr>
<td>ER3-F-1302** - Lensed Downlight</td>
<td>W-WH - White</td>
<td>BP8MR16-FR - FROSTED</td>
</tr>
<tr>
<td>ER3-F-1363** - Open Adjustable Accent</td>
<td>CL-WH - Chrome</td>
<td>BP8MR16-SF - SOFT FOCUS</td>
</tr>
<tr>
<td>ER3-SF-1302 - Open Self-Flanged</td>
<td>SHZ-WH - Satin Haze</td>
<td>BP8MR16-CL - CLEAR</td>
</tr>
<tr>
<td>ER3-SF-1303** - Slot</td>
<td>BK-WH - Black</td>
<td>BP8MR16-UV - ULTRAVIOLET</td>
</tr>
</tbody>
</table>

**SQUARE TRIM OPTIONS**

<table>
<thead>
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<tr>
<td>ES3-TL-1328** - Lensed Downlight (wet Location)</td>
<td>W-White</td>
<td>BP8MR16-FR - FROSTED</td>
</tr>
<tr>
<td>ES3-TL-1307** - Lensed Wall Wash (wet Location)</td>
<td>CL - Chrome</td>
<td>BP8MR16-SF - SOFT FOCUS</td>
</tr>
<tr>
<td>ES3-TL-1314** - Pinhole Downlight</td>
<td>SHZ - Satin Haze</td>
<td>BP8MR16-CL - CLEAR</td>
</tr>
<tr>
<td>ES3-TL-1303** - Slot</td>
<td>BK - Black</td>
<td>BP8MR16-UV - ULTRAVIOLET</td>
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<tr>
<td>ES3-F-1302 - Lensed Downlight</td>
<td>W-WH - White</td>
<td>BP8MR16-FR - FROSTED</td>
</tr>
<tr>
<td>ES3-F-1363** - Open Adjustable Accent</td>
<td>CL-WH - Chrome</td>
<td>BP8MR16-SF - SOFT FOCUS</td>
</tr>
<tr>
<td>ES3-SF-1302 - Open Self-Flanged</td>
<td>SHZ-WH - Satin Haze</td>
<td>BP8MR16-CL - CLEAR</td>
</tr>
<tr>
<td>ES3-SF-1303** - Slot</td>
<td>BK-WH - Black</td>
<td>BP8MR16-UV - ULTRAVIOLET</td>
</tr>
</tbody>
</table>

**COLOR FILTERS & DISTRIBUTION FILTERS**

**MR16 Speciality Lens Filter**

<table>
<thead>
<tr>
<th>CAT. #</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP8MR16-FR</td>
<td>FROSTED</td>
</tr>
<tr>
<td>BP8MR16-SF</td>
<td>SOFT FOCUS</td>
</tr>
<tr>
<td>BP8MR16-CL</td>
<td>CLEAR</td>
</tr>
<tr>
<td>BP8MR16-UV</td>
<td>ULTRAVIOLET</td>
</tr>
<tr>
<td>BP8MR16-SP</td>
<td>SPREAD</td>
</tr>
<tr>
<td>BP8MR16-LI</td>
<td>LINEAR</td>
</tr>
<tr>
<td>BP8MR16-SOL</td>
<td>SOLITE</td>
</tr>
</tbody>
</table>

**MR16 Lens Filter**

<table>
<thead>
<tr>
<th>CAT. #</th>
<th>COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP8MR16-BL</td>
<td>BLUE</td>
</tr>
<tr>
<td>BP8MR16-GR</td>
<td>GREEN</td>
</tr>
<tr>
<td>BP8MR16-PI</td>
<td>PINK</td>
</tr>
<tr>
<td>BP8MR16-PU</td>
<td>PURPLE</td>
</tr>
<tr>
<td>BP8MR16-YE</td>
<td>YELLOW</td>
</tr>
<tr>
<td>BP8MR16-AM</td>
<td>AMBER</td>
</tr>
<tr>
<td>BP8MR16-OR</td>
<td>ORANGE</td>
</tr>
<tr>
<td>BP8MR16-RE</td>
<td>RED</td>
</tr>
</tbody>
</table>

Note:
Additional lens filters must only be used on open non-lensed downlight trim options

*Driver only accessible from the top of the luminaire when using Trim-less application. Square trimless option only offer with ceiling access.

**Pinhole and Slot are only available in black (Reflector) and white (Trim)

Emergency only accessible from the top of the luminaire

---

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

LUTRON - Available on Elite platform 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 VE system by using two FCJS-010 PowPak modules per luminaire, one to tune and one to control dimming.

Compatible with Elite 0-10V Platform and LED Engin 0-10V Platform

*Compatible with Elite 0-10V Platform and LED Engin 0-10V Platform

ER3-LED - Tunable White

3" Architectural High Lumen Adjustable LED Downlight
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3” Architectural High Lumen Adjustable LED Downlight

Tunable White

ER3-LED

3”

TWH-50K-27K

- 100-277VAC input.
- Touch slide tunable white and brightness control.
- 2 channels: 1-10V signal output.
- 0-100% dimming.
- Waterproof grade IP65.
- Save up to max 3 different colors.

Safety & Warnings:
DO NOT install with power applied to device.
DO NOT expose the device to moisture.

TWH Controller EC-WC-TWH-HW-MVOLT

Wiring Diagram:
AC 100-277V

- Dual color slider: touch to adjust color temperature between Warm White and Cool White.
- Brightness slider, touch to dim brightness, the lowest brightness is 1%.

Output Signal 2x 1-10V signal
Power Supply 100-277VAC
Power consumption 30 mA max
Operating temperature 0-40°C
Relative humidity 6% to 80%
Dimensions 75x120x4.8 mm

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3" Architectural High Lumen Adjustable LED Downlight

3" ER3-LED

Supply Voltage (@J18):
- GND (pin: 1)
- +Vcc (pin: 2)

DMX control (@J7):
- GND (pin: 3)
- DMX D- (pin: 3)
- DMX D+ (pin: 3)

Supply Voltage (@J19):
- GND (pin: 1)
- +Vcc (pin: 2)

Brightness (@J18):
- 0-10V- (pin: 3)
- 0-10V+ (pin: 4)

CCT tuning (@J18):
- 0-10V+ (pin: 5)
- 0-10V- (pin: 6)

Supply Voltage (@J8):
- GND (pin: 1)
- +Vee (pin: 2)

DALI control (@J7):
- DALI DA (pin: 2)
- DALI DA (pin: 3)
- DALI BUS

DALI control (@J7):
- DALI DA (pin: 2)
- DALI DA (pin: 3)

WALL CONTROL (pin 1-20)

To switch into color profile for the tunable white range, connect a jumper as shown. At header J8, connect pin 5 to pin 6. Without the jumper or by removing the jumper forces the color profile back to default color range.

TWH-LEN6N-65K-18K

Supply Voltage (@J8):
- GND (pin: 1)
- +Vee (pin: 2)

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