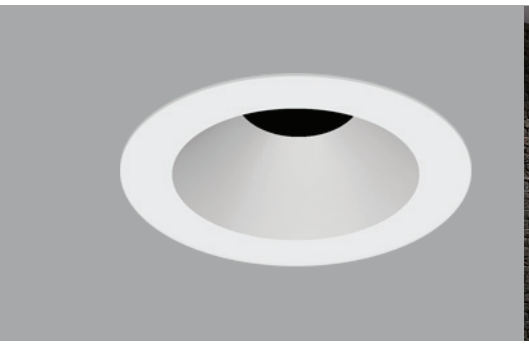
fusion LIGHTING
By Elite Lighting

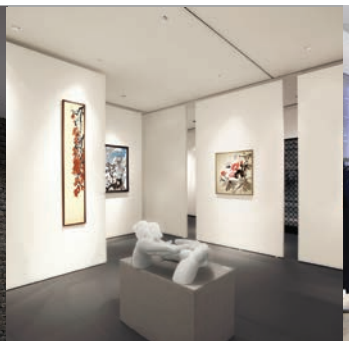
Tunable White

ER3-LED

3" Architectural High Lumen Adjustable LED Downlight

3"





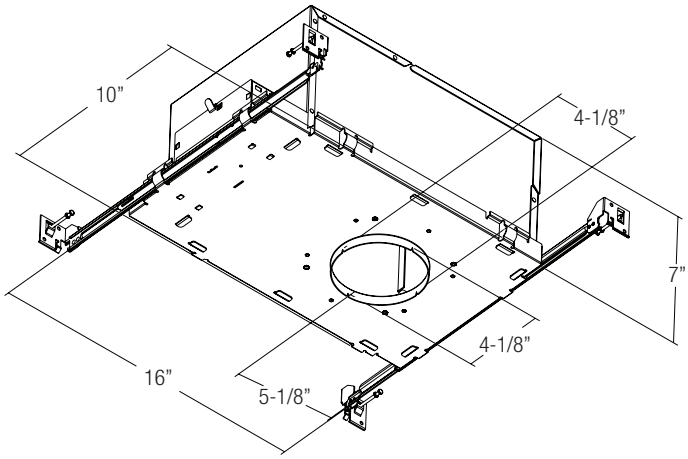
TRIM OPTIONS

ROUND FLANGED

ROUND TRIMLESS

SQUARE FLANGED

SQUARE TRIMLESS



NOMINAL LUMENS	ELITE	LED Engine
1500	18W	-
1200	16W	-
1100	-	11W
900	12W	-

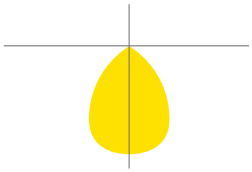
Based on 4000K, 90+ CRI. Actual wattage may vary +/- 5%

FEATURES

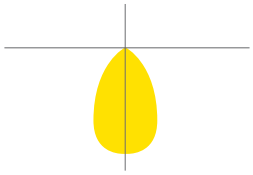
A small aperture, architectural LED downlight that delivers the ultimate in uncompromised quality and performance, with precise, glare-free illumination, and unmatched flexibility. With the use of a single universal housing, it utilizes a multitude of trims, field changeable optics, and is fully adjustable to any beam angle, up to 45 degrees, with a full 365-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.

LUMENS	Elite Platform: 900, 1200, 1500 LED Engin Platform: 1100
TUNABLE WHITE PLATFORMS	Elite Platform: TWH-50K-27K (50K to 27K) LED Engin: TWH-LENGN-65K-18K (65K to 18K)
CRI	90+ Standard
COLOR QUALITY	2 Step MacAdam Ellipse
DISTRIBUTION PATTERNS	SPD(Sport-15°),ND(Narrow-24°), MD(Medium-35°), MWD(Medium Wide-45°), WD(Wide-52°)
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, LUTECO, 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.

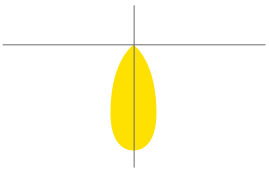
WD: WIDE
Candlepower Distribution Curve



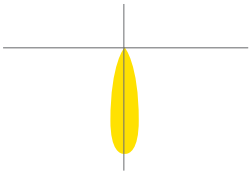
MWD: MEDIUM WIDE
Candlepower Distribution Curve



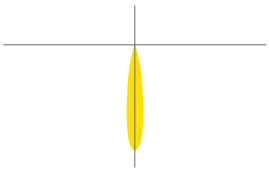
MD: MEDIUM
Candlepower Distribution Curve



ND: NARROW
Candlepower Distribution Curve



SPD: SPOT
Candlepower Distribution Curve



Reference IES files for additional distribution curve information.

PROUDLY ASSEMBLED in AMERICA
c UL us LISTED
5 YEARS LIMITED WARRANTY
FOR WET LOCATION
CHICAGO APPROVED

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.

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 opening 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

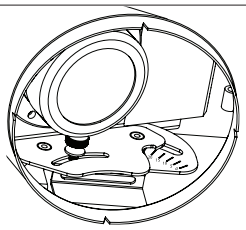
c-UL-us - Listed for Wet Location if used with 1328 or 1307 Trims.
CP - City of Chicago Environmental Air (CCEA) marking for plenum applications (option).

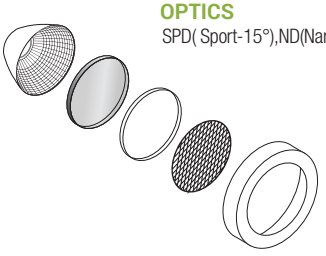
DIMMING & DRIVER INFORMATION

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
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

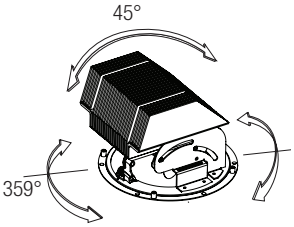
Tunable White with Smart White technology allows the tuning of luminaires to mimic the natural color patterns throughout the day, enhancing interior office spaces, hospitality, and architectural elements. Tuning of intensity and color in classrooms enables a diversification in student activities, while 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),





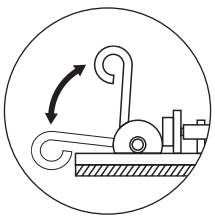
OPTICS

SPD(Sport-15°),ND(Narrow-24°), MD(Medium-35°), MWD(Medium Wide-45°), WD(Wide-52°)



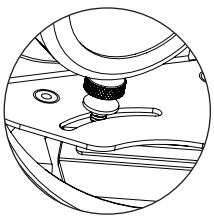
AIMING

Proprietary hot aiming system allows the lamp to be positioned at the perfect setting to ensure the proper position of the beam of light before trim is installed. Lamp holder is designed to ensure that the center beam of the light source emerges out of luminaire at any angled position from 0° to 45°.



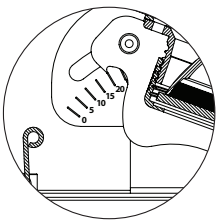
365° HORIZONTAL LOCKING

Effortlessly rotates on a 365° horizontal rotational smooth slotted groove track system



TOOL-LESS ADJUSTABILITY

Of the luminaire is to ensure whatever position is desired up to 45 degrees the beam and maximum lumen power is exiting the luminaire accordingly



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.

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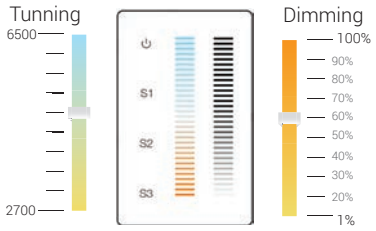
CONTROL OPTIONS

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 fixtures enable your customer's facility to run smarter, with the use of an easily controlled system through any platform.

CONTROL PROTOCOLS	SMART WHITE	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, health care, 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 Con-troller, 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.	✔	✔
❑ **DLM** The combination of the Blanco 3 with DLM from Legrand Wattstopper enables simple commissioning, synonymous with DLM and the enhanced features and flexibility.	N/A	N/A

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Round Flanged Trim Options

ER3-F-1302 Open Downlight

ER3-F-1328 Lensed Downlight

ER3-F-1363 Adjustable Accent

ER3-F-1307 Lensed Wall Wash

ER3-F-1303 Slot

ER3-F-1314 Pinhole Downlight

ER3-SF-1302 Open Downlight Self-Flanged

Round Trim-less Options

ER3-TL-1302 Open Downlight

ER3-TL-1328 Lensed Downlight

ER3-TL-1363 Adjustable Accent

ER3-TL-1307 Lensed Wall Wash

ER3-TL-1303 Slot

ER3-TL-1314 Pinhole Downlight

ER3-TL Mud Ring

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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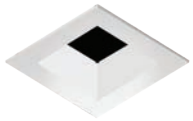
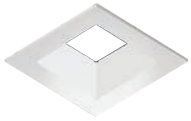
Square Flanged Trim Options

ES3-F-1302 Open Downlight

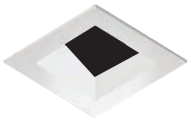


ES3-F-1328 Lensed Downlight



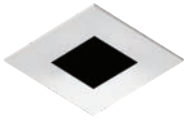
Shower wet location

ES3-F-1363 Adjustable Accent



ES3-F-1307 Lensed Wall Wash

ES3-F-1314 Pinhole Downlight



Square Trim-less Options

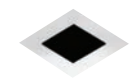
ES3-TL-1302 Open Downlight

ES3-TL-1328 Lensed Downlight

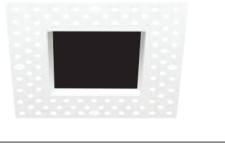
ES3-TL-1363 Adjustable Accent

ES3-TL-1307 Lensed Wall Wash

ES3-TL-1314 Pinhole Downlight



ES3-TL Mud Ring

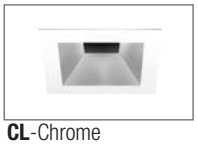


Square Trimless Option Only Offer With Ceiling Access

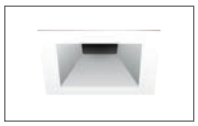
FLANGED OPTION:
Post-painted powder coated Die-Cast trim ring available in white and custom colors (Please consult factory for custom paint color options). Collar and trim rotate jointly, and a Solite frosted lens is standard on all trims (Please consult factory for additional lens options). Available 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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ORDERING GUIDE

		TYPE	LUMENS	DIMMING	VOLTAGE	OPTICS	CRI	EMERGENCY	OPTION	WALL MOUNT CONTROLLER
TUNABLE WHITE	ELITE	❑ **ER3-LED-TWH-50K-27K** ❑ **ER3-LED-TWH-65K-27K**	❑ **900L** ❑ **1200L** ❑ **1500L**	❑ **DIM10*** ❑ **DMX-512** ❑ **DMX-RDM** ❑ **LUTECO**	❑ **120** ❑ **277** (For 347V Consult Factory) ❑ **MVOLT**	❑ **SPD (15°)** ❑ **ND (24°)** ❑ **MD (35°)** ❑ **MWD (45°)** ❑ **WD (52°)**	❑ **90+**	❑ **EMG-LED-10W** ❑ **EMG-LED-10W** Only accessible from the top of the luminaire	❑ **Blank** - Standard bar hangers (included) ❑ **BP31** - 27" C-channel bar hangers. ❑ **RIF** - RIF filter ❑ **SF** - Spray Foam suitable for insulation. (Consult factory for details) ❑ **CP** - CCEA Chicago plenum	❑ **EC-WC-TWH-HW-MVOLT** [1]
	LED ENGIN	❑ **ER3-LED-TWH-LENGN-65K-18K**	❑ **1100L**	❑ **DIM10** ❑ **DALI** ❑ **DMX-512** ❑ **BLE** ❑ **DMX-RDM**						

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 control dimming. Also compatible with Lutron VIVE system by using two FCJS-010 PowPak modules per luminaire, one to tune and one to control dimming.
[1] Compatible with Elite 0-10V Platform and LED Engin 0-10V Platform

TRIM OPTIONS

TRIM & TRIM-LESS OPTIONS

ROUND TRIM OPTIONS

FLANGE-LESS TRIM OPTIONS		FINISH	LENS FILTERS	
❑ **ER3-TL-1328***- Lensed Downlight (wet Location) ❑ **ER3-TL-1307***- Lensed Wall Wash (wet Location) ❑ **ER3-TL-1314****- Pinhole Downlight ❑ **ER3-TL-1303***- Slot	❑ **ER3-TL-1302***- Open Downlight ❑ **ER3-TL-1363***- Open Adjustable Accent	❑ **W**- White ❑ **CL**- Chrome ❑ **SHZ**-Satin Haze ❑ **BK**-Black	❑ **BP8MR16-FR** - FROSTED ❑ **BP8MR16-SF** - SOFT FOCUS ❑ **BP8MR16-CL** - CLEAR ❑ **BP8MR16-UV** - ULTRAVIOLET ❑ **6BP8MR16-SP** - SPREAD ❑ **BPmr16-HC** - HONEY COMB ❑ **BPmr16-LI** - LINEAR ❑ **BPmr16-SOL** - SOLITE **Note:** Additional lens filters must only be used on open non-lensed downlight trim options	❑ **BP8MR16-BL** - BLUE ❑ **BP8MR16-GR** - GREEN ❑ **BP8MR16-PI** - PINK ❑ **BP8MR16-PU** - PURPLE ❑ **BP8MR16-DL** - DAY LIGHT ❑ **BP8MR16-YE** - YELLOW ❑ **BP8MR16-AM**- AMBER ❑ **BP8MR16-OR** - ORANGE ❑ **BP8MR16-RE** - RED
FLANGED TRIM OPTIONS				
❑ **ER3-F-1328**- Lensed Downlight (wet Location) ❑ **ER3-F-1307**- Lensed Wall Wash (wet Location) ❑ **ER3-F-1314****- Pinhole Downlight ❑ **ER3-F-1303****- Slot	❑ **ER3-F-1302**- Open Downlight ❑ **ER3-F-1363**- Open Adjustable Accent ❑ **ER3-SF-1302**- Open Self-Flanged	❑ **W-WH** - White ❑ **CL-WH** - Chrome ❑ **SHZ-WH**-Satin Haze ❑ **BK-WH**-Black		

SQUARE TRIM OPTIONS

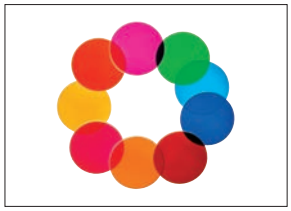
FLANGE-LESS TRIM OPTIONS		FINISH	LENS FILTERS	
❑ **ES3-TL-1328***- Lensed Downlight (wet Location) ❑ **ES3-TL-1307***- Lensed Wall Wash (wet Location)	❑ **ES3-TL-1302***- Open Downlight ❑ **ES3-TL-1363***- Open Adjustable Accent	❑ **W**- White ❑ **CL**- Chrome ❑ **SHZ**-Satin Haze ❑ **BK**-Black	❑ **BP8MR16-FR** - FROSTED ❑ **BP8MR16-SF** - SOFT FOCUS ❑ **BP8MR16-CL** - CLEAR ❑ **BP8MR16-UV** - ULTRAVIOLET ❑ **6BP8MR16-SP** - SPREAD ❑ **BPmr16-HC** - HONEY COMB ❑ **BPmr16-LI** - LINEAR ❑ **BPmr16-SOL** - SOLITE **Note:** Additional lens filters must only be used on open non-lensed downlight trim options	❑ **BP8MR16-BL** - BLUE ❑ **BP8MR16-GR** - GREEN ❑ **BP8MR16-PI** - PINK ❑ **BP8MR16-PU** - PURPLE ❑ **BP8MR16-DL** - DAY LIGHT ❑ **BP8MR16-YE** - YELLOW ❑ **BP8MR16-AM**- AMBER ❑ **BP8MR16-OR** - ORANGE ❑ **BP8MR16-RE** - RED
FLANGED TRIM OPTIONS				
❑ **ES3-F-1328**- Lensed Downlight (wet Location) ❑ **ES3-F-1307**- Lensed Wall Wash (wet Location) ❑ **ES3-F-1314****- Pinhole Downlight	❑ **ES3-F-1302**- Open Downlight ❑ **ES3-F-1363**- Open Adjustable Accent	❑ **W-WH** - White ❑ **CL-WH** - Chrome ❑ **SHZ-WH**-Satin Haze ❑ **BK-WH**-Black		

*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)

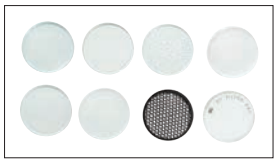
Emergency only accessible from the top of the luminaire

COLOR FILTERS & DISTRIBUTION FILTERS



MR16 LENS FILTER

CAT. #	COLOR
BP8MR16-BL	BLUE
BP8MR16-GR	GREEN
BP8MR16-PI	PINK
BP8MR16-PU	PURPLE
BP8MR16-DL	DAY LIGHT
BP8MR16-YE	YELLOW
BP8MR16-AM	AMBER
BP8MR16-OR	ORANGE
BP8MR16-RE	RED



MR16 SPECIALTY LENS FILTER

CAT. #	COLOR
1. BP8MR16-FR	FROSTED
2. BP8MR16-SF	SOFT FOCUS
3. BP8MR16-CL	CLEAR
4. BP8MR16-UV	ULTRAVIOLET
5. 6BP8MR16-SP	SPREAD
6. BPMR16-HC	HONEY COMB
7. BPMR16-LI	LINEAR
8. BPMR16-SOL	SOLITE

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

***Please consult factory**

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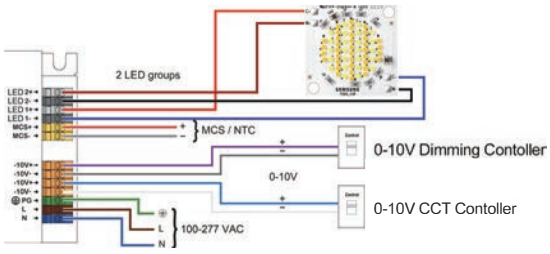
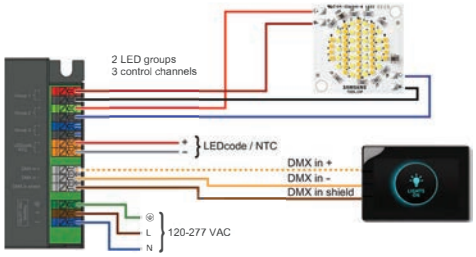
TWH-50K-27K



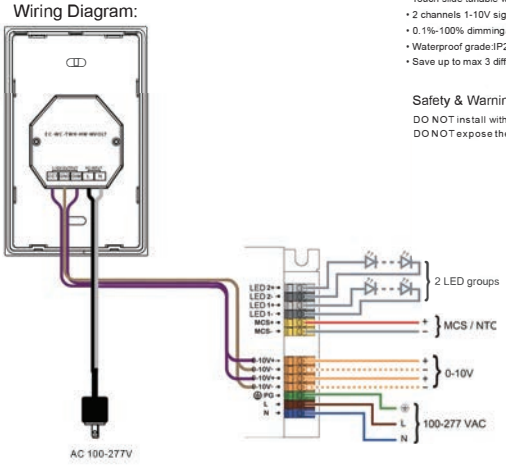
Solid or stranded copper wires only.



DMX512-A-RDM accessory board connects to an electrically isolated expansion port within the ALM

TWH Controller EC-WC-TWH-HW-MVOLT

Wiring Diagram:

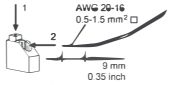


- 100-277VAC input.
- Touch slide tunable white and brightness control.
- 2 channels 1-10V signal output.
- 0.1%-100% dimming.
- Waterproof grade:IP20.
- Save up to max 3 different colors.

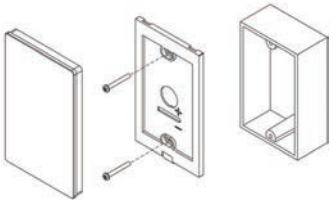
Safety & Warnings:

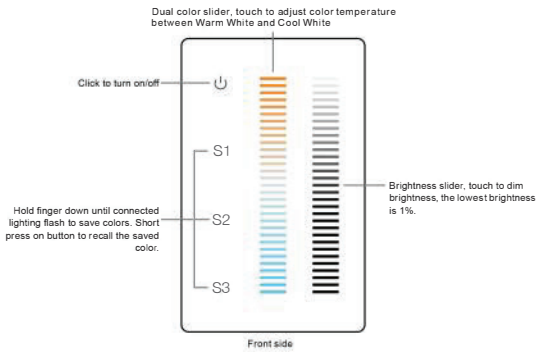
DO NOT install with power applied to device.
DO NOT expose the device to moisture.

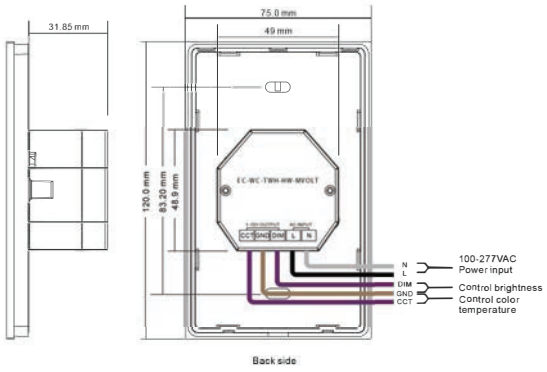
Output Signal	2x(1-10V) signal
Power Supply	100-277VAC
Power consumption	30 mA max
Operating temperature	0-40°C
Relative humidity	8% to 80%
Dimensions	75x120x40.8mm



Solid or stranded copper wires only.







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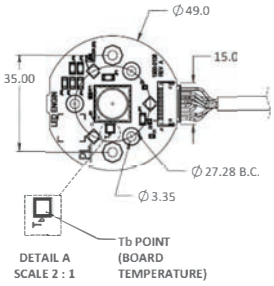
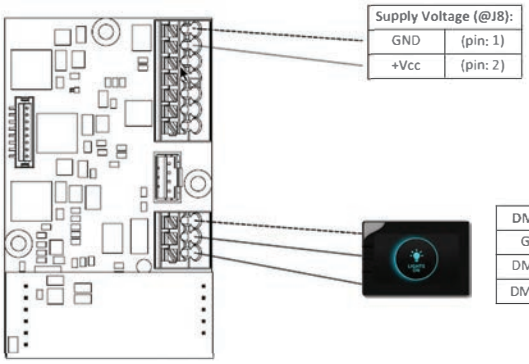
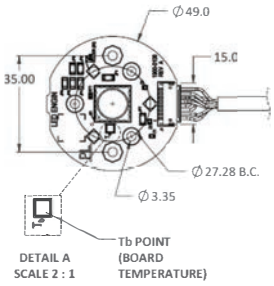
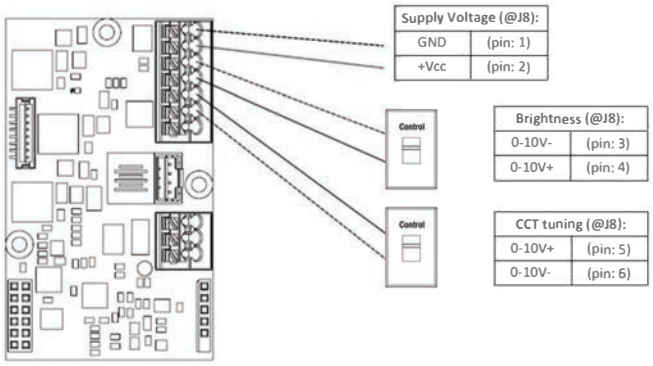
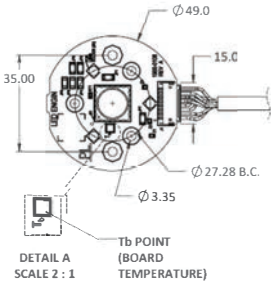
TWH-LENGN-65K-18K

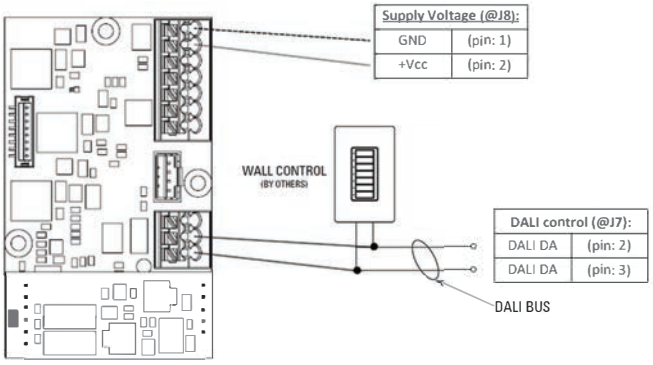


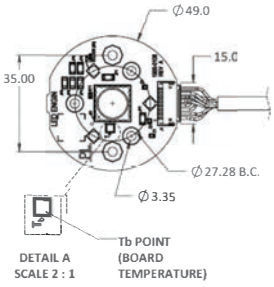


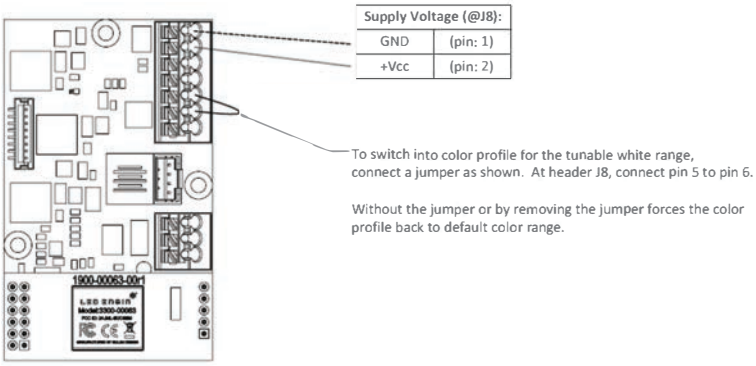












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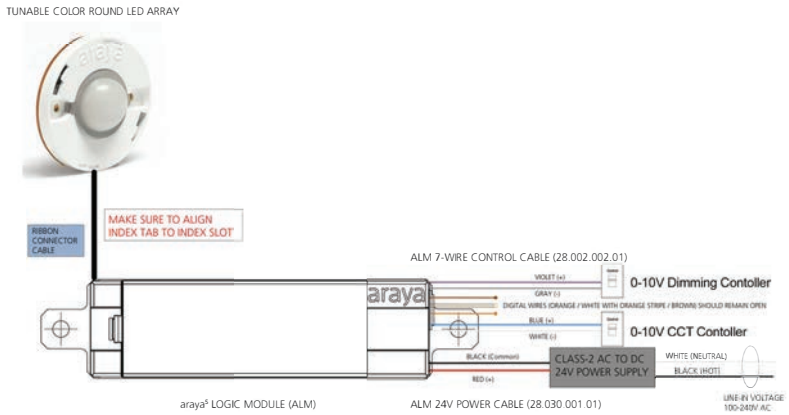
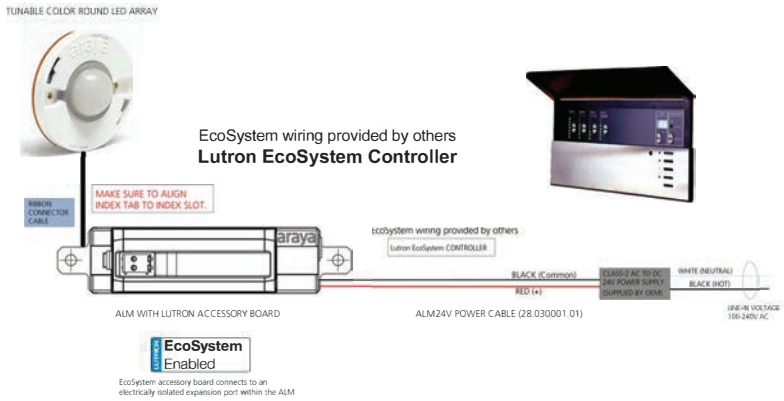
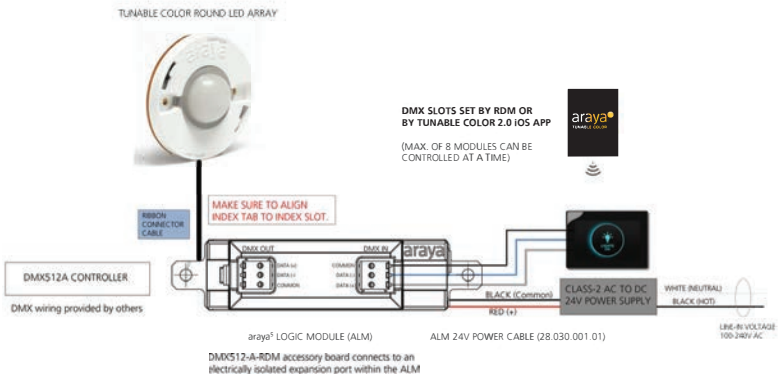
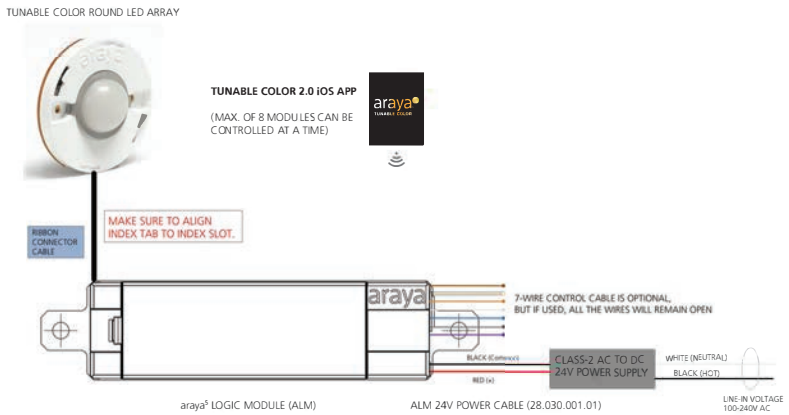
TWH-LTX-80K-16K









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