

# T24M MAGNETIC ZOOM TRACK HEAD, 2 CIRCUIT

## LED 24VDC, ADJUSTABLE BEAM SPREAD

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 06.03.24



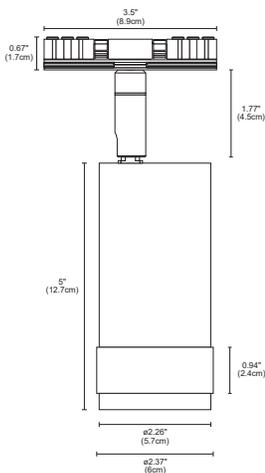
5/8" E DRYWALL CROSS SECTION



T24M-2C-ZOOM-Z1-30K-WH



T24M-2C-ZOOM-Z1-30K-BK



### DESCRIPTION

The T24 Zoom is a 24VDC, 16 watt track head with integral LED that features adjustable beam spreads with up to 1260 lumens. Zoom is offered in two adjustable ranges: **Z1** is adjustable from 15° to 55°, **Z2** ranges from 20° to 50°. As with all PureEdge track heads, Zoom is available in 5 color temperatures including Warm Dim (**30D**) with up to 98 CRI. The fixture design is of a flat-backed tube heat sink with 360° horizontal and 90° vertical rotation. The low voltage track connector is compatible with Magnetic TruTrack and Magnetic Surface Track. The minimal design of the Zoom Track Head offers maximum illumination and low wattage within a small package. Fixture includes a 5 year pro-rated warranty. For custom designs and layout assistance, email our design team [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com).

### MOUNTING OPTIONS

Compatible with PureEdge T24M Track Heads are Compatible with TruTrack® (TR24M-2C) and Surface Mount track (TS24M-2C).

### REMOTE POWER SUPPLIES (SOLD SEPARATELY)

24VDC, Class 2 wiring

- [Uni Trim Power Supply](#) Universal Dimming (TRIAC, ELV, 0-10V)  
ELV & TRIAC [Smart Dimmer & Switch](#)

### LAMPING

	Z1		Z2		Z2	
BEAM ANGLE	15°	55°	20°	50°	20°	50°
COLOR TEMPERATURE	30K	30K	30K	30K	30D	30D
TOTAL LUMENS	686	873	795	1188	727	879
WATTS	16	16	16	16	15	15
LUMENS PER WATT (lm/w)	46	61	69	89	50	61
CRI	93	93	94	94	97	97
TM-30 DATA	R9: 66 Rf: 92 Rg: 101	R9: 66 Rf: 92 Rg: 101	R9: 74 Rf: 92 Rg: 102	R9: 74 Rf: 92 Rg: 102	R9: 66 Rf: 94 Rg: 101	R9: 66 Rf: 94 Rg: 101

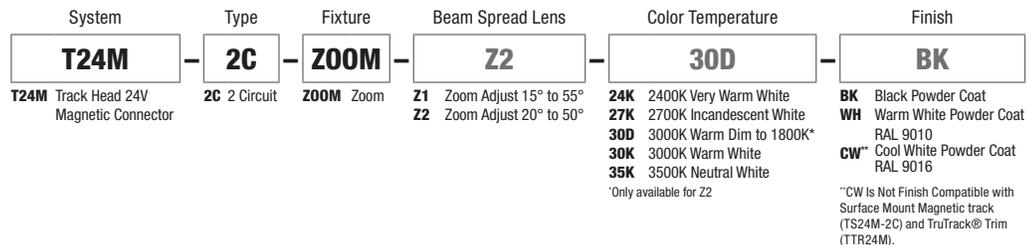
### APPLICATIONS

Designed for indoor use only, dry and damp locations. Ideal applications in Commercial, Retail, Residential, Hospitality, Education and Healthcare Institutions.

### WARRANTY / LABELS

Pro-rated 5 year warranty. Assembled in America, ETL (Conforms to UL1598 and CSA 22.2 #250.0) RoHs.

### FINISHES & MATERIAL



PROJECT	FIXTURE TYPE	DATE
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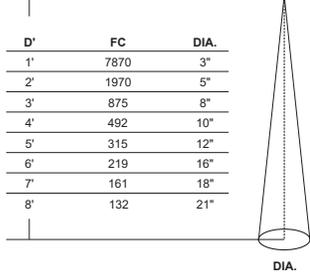
# T24M MAGNETIC ZOOM TRACK HEAD, 2 CIRCUIT

LED 24VDC, ADJUSTABLE BEAM SPREAD

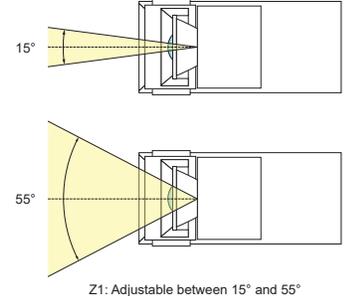
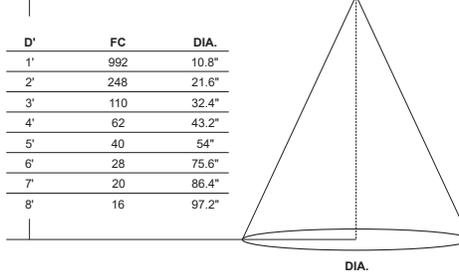
## ZOOM Z1 Photometric Data

**D** - Distance from fixture  
**FC** - Initial foot candles at the center of beam  
**DIA** - Diameter

15° BEAM ANGLE



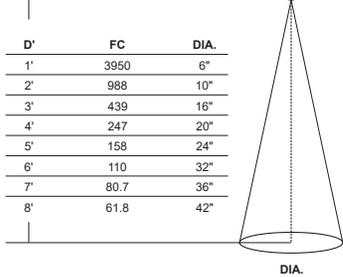
55° BEAM ANGLE



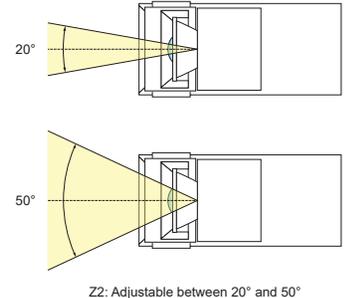
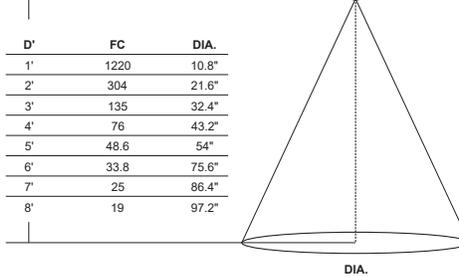
## ZOOM Z2 Photometric Data

**D** - Distance from fixture  
**FC** - Initial foot candles at the center of beam  
**DIA** - Diameter

20° BEAM ANGLE



50° BEAM ANGLE



PROJECT		FIXTURE TYPE		DATE	
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# UNIVERSAL POWER SUPPLIES WITH TRIM

24VDC, UNIVERSAL DIMMING (ELV, TRIAC, 0-10V) STATIC WHITE & WARM DIM FOR TRACK HEADS



### DESCRIPTION

The Uni TRIM Power Supply is designed for 24 Volt Track Heads, accepts input voltage in a range of 120 - 277VAC and outputs 24VDC power up to 96 watts. Can be used as a dimmable or non-dim Power Supply. Dims down 7% with an ELV dimmer or a 0-10 volt dimmer when two additional wires are connected to the dimmer. The enclosure provides a space inside for electrical connections. Power Supply features short circuit and overload and over temperature protection. Indoor applications only. For custom quotes and layout assistance, send your drawings and ideas to our design team: [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com).

### MOUNTING

Surface mounted with conduit access

### COMPATIBILITY

Compatible with PureEdge 24VDC Track heads (T24, T24M), Vanishing Point and Mono-point/Multi-point heads (FJ24, VR, V2MR, MR2R, M44R, 2RRE, 3R8R).

### POWER INPUT

120-277 volts AC, 50/60Hz

### POWER OUTPUT

Class 2; 24 volts DC 4A, 96 watts maximum

### EFFICIENCY

85%

### AMBIENT OPERATING TEMPERATURE

-25C to 40C

### ELV DIMMER TYPE

Legrand: Adorne ADTP703TU  
Lutron: Diva DVELV-300P, Skylark SELV-300P, Maestro MAELV-600 and Radio RA 2

### MAKE IT SMART

ELV & TRIAC [Smart Dimmer & Switch](#)

### 0-10 DIMMER TYPE

Lutron: Radio RA2 (with GRX-TVI), Grafik Eye Qs (with GRX-TVI), Diva (with PP20); Nova T  
Philips: Sunrise SR1200ZTUNV  
Leviton: IP710-DL

### DIMMING CURVE

Linear, Logarithmic 100% - 7% (HydraDrive)

### APPLICATIONS: Indoor

To avoid overheating the power supply, install it in a ventilated remote location where air flows. Maintain proper spacing among power supplies when multiple power supplies are installed in the same remote location.

Product	Wattage	Dimming	Voltage	Type	Options
<b>PSB</b>	<b>96W</b>	<b>UNI</b>	<b>24VDC</b>	<b>T</b>	<b>STANDARD</b> (Leave Blank)
<b>PSB</b> Power Supply with Enclosure Box	<b>40W</b> 40 Watt <b>60W</b> 60 Watt <b>96W</b> 96 Watt <b>2X40W</b> 2x40 Watt <b>2X60W</b> 2x60 Watt <b>2X96W</b> 2x96 Watt	<b>UNI</b> Universal Power Supply	<b>24VDC</b> 24 Volt DC	<b>T</b> Trim	<b>TB</b> T-Bar <b>CP</b> Chicago Plenum

PROJECT		FIXTURE TYPE		DATE	
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# UNIVERSAL POWER SUPPLIES WITH TRIM

24VDC, UNIVERSAL DIMMING (ELV, TRIAC, 0-10V) STATIC WHITE & WARM DIM FOR TRACK HEADS

## UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

	PSB-40W-UNI-24VDC-T	PSB-60W-UNI-24VDC-T	PSB-96W-UNI-24VDC-T
<b>ORDERING CODE</b>			
<b>SPECIFICATIONS</b>			
<b>MAXIMUM LOAD</b>	40W	60W	96W
<b>INPUT VOLTAGE</b>	120-277VAC	120-277VAC	120-277VAC
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC
<b>DIMENSIONS</b>	15.65" X 6.37" X 3.43"	15.65" X 6.37" X 3.43"	15.65" X 6.37" X 3.43"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	PSB-40W-UNI-24VDC-T-TB	PSB-60W-UNI-24VDC-T-TB	PSB-96W-UNI-24VDC-T-TB
<b>T-BAR CHICAGO PLENUM</b>	PSB-40W-UNI-24VDC-T-CP	PSB-60W-UNI-24VDC-T-CP	PSB-96W-UNI-24VDC-T-CP

## UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

	PSB-2X40W-UNI-24VDC-T	PSB-2X60W-UNI-24VDC-T	PSB-2X96W-UNI-24VDC-T
<b>ORDERING CODE</b>			
<b>SPECIFICATIONS</b>			
<b>MAXIMUM LOAD</b>	2X40W	2X60W	2X96W
<b>INPUT VOLTAGE</b>	120-277VAC	120-277VAC	120-277VAC
<b>OUTPUT VOLTAGE</b>	24VDC	24VDC	24VDC
<b>DIMENSIONS</b>	15.4" X 9.73" X 3.43"	15.4" X 9.73" X 3.43"	15.4" X 9.73" X 3.43"
<b>CLASSIFICATION</b>	CLASS 2	CLASS 2	CLASS 2
<b>T-BAR MOUNTING</b>	PSB-2X40W-UNI-24VDC-T-TB	PSB-2X60W-UNI-24VDC-T-TB	PSB-2X96W-UNI-24VDC-T-TB
<b>T-BAR CHICAGO PLENUM</b>	PSB-2X40W-UNI-24VDC-T-CP	PSB-2X60W-UNI-24VDC-T-CP	PSB-2X96W-UNI-24VDC-T-CP

### ELV DIMMING & CONTROLS

LUTRON DIVA: DVELV-300P	•	•	•
LUTRON SKYLARK: SELV-300P	•	•	•
LUTRON RADIO RA3: RR-PROC3-XX	•	•	•
LUTRON MAESTRO: MAELV-600	•	•	•
LEGRAND ADORNE: ADTP-703TUM4	•	•	•

### 0-10 DIMMING & CONTROLS

PHILIPS SUNRISE: SR1200ZTUNV	•	•	•
LUTRON DIVA: DVTV-WH, DVSTV-WH	•	•	•
LUTRON NOVA T: NTSTV-DV-XX	•	•	•
LUTRON GRAFIX EYE QS: QSGRJ-XP	•	•	•
LUTRON RADIO RA3: RR-PROC3-XX	•	•	•
LEVITON: LEV40050	•	•	•
LEVITON IP710-LFZ	•	•	•
LEGRAND: ADPD4FBL3P2W4	•	•	•
LEGRAND RADIANT: RH703PTUW	•	•	•

### TRIAC DIMMING & CONTROLS

LUTRON SKYLARK: S2-L-WH	•	•	•
LUTRON DIVA DVLV-600P-WH	•	•	•
LUTRON DIVA DVLV-603P-WH	•	•	•
LUTRON MAESTRO MALV-600-WH	•	•	•
LUTRON MAESTRO MALV-1000-WH	•	•	•
LUTRON MAESTRO MA-R-XX	•	•	•
PURE SMART DIMMER AND SWITCH	•	•	•

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per e and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements
- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90

- The Solid State Constant Voltage Uni-Power Supply is compatible with most commercially available Dimmers:
  - Triac Dimmer: (Forward Phase) Typically used for the dimming of Incandescent and Low Voltage Magnetic Transformers
  - ELV Dimmer: (Reverse Phase) Dimming of Electronic Low Voltage Transformers and Power Supplies used for LED lighting
  - 0-10 Dimmer : Dims the Low Voltage side of a 0-10 volt power supply commonly used in large scale lighting or commercial applications.
- The Uni-Power Supply is recommended with any Siemens/Murray brand of arc fault breaker to overcome the issues with tripping the breakers with ELV Low Voltage Drivers.

\*Title 24 with JA8 listed PureEdge products and systems

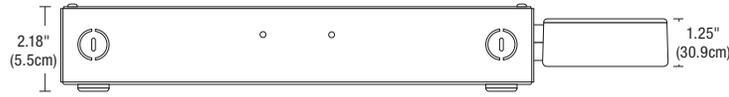
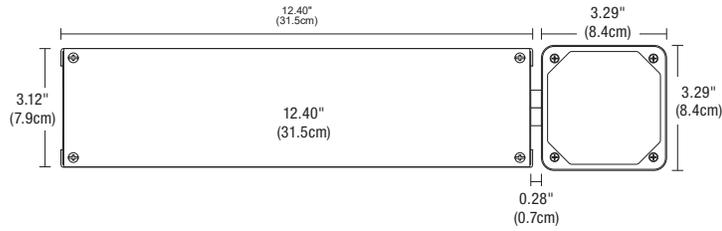
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# UNIVERSAL POWER SUPPLIES WITH TRIM

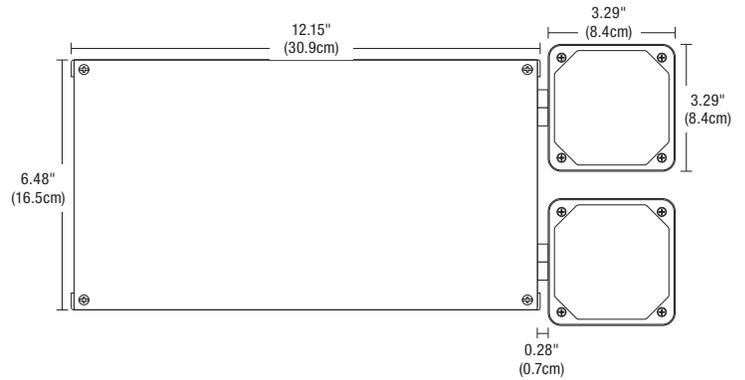
24VDC, UNIVERSAL DIMMING (ELV, TRIAC, 0-10V) STATIC WHITE & WARM DIM FOR TRACK HEADS

## POWER SUPPLY DIMENSIONS & DIAGRAMS

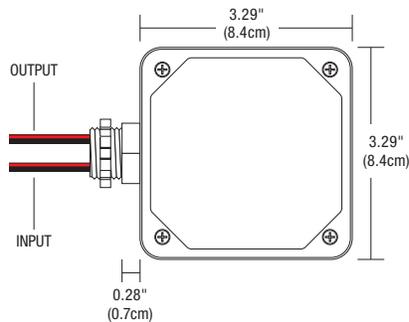
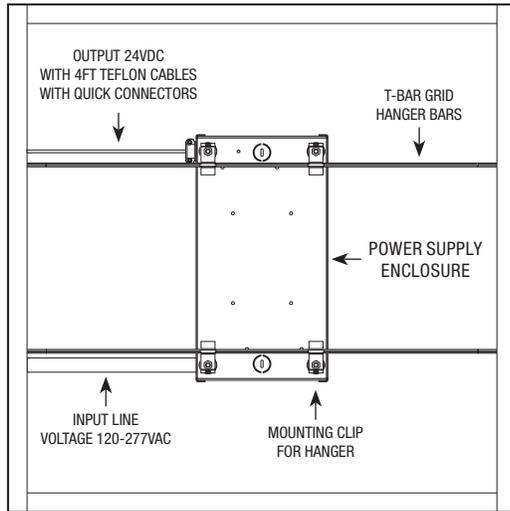
### 40W, 60W, 96W



### 2X40W, 2X60W, 2X96W



### T-BAR GRID CEILING



### VOLTAGE TRIM BOX

Voltage Trim Box is included with power supply. Mounts in 1/2" knock-outs. The part number below is to be used for replacement only.

Product	Voltage	Type
<b>PSB</b>	<b>24VDC</b>	<b>TRIM</b>
PSB Power Supply with Enclosure Box	24VDC 24 Volt DC	TRIM Voltage Trim Box

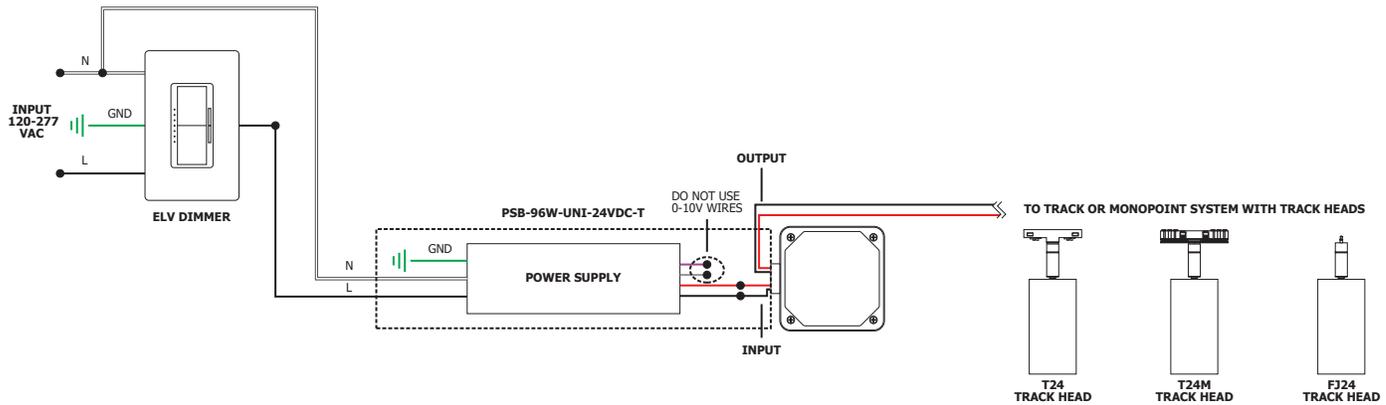
PROJECT	FIXTURE TYPE	DATE
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# UNIVERSAL POWER SUPPLIES WITH TRIM

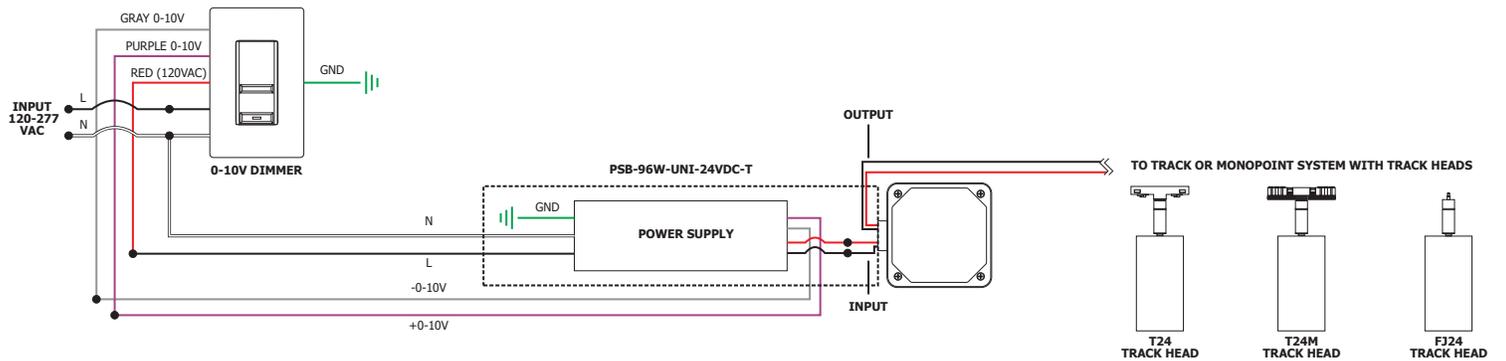
24VDC, UNIVERSAL DIMMING (ELV, TRIAC, 0-10V) STATIC WHITE & WARM DIM FOR TRACK HEADS

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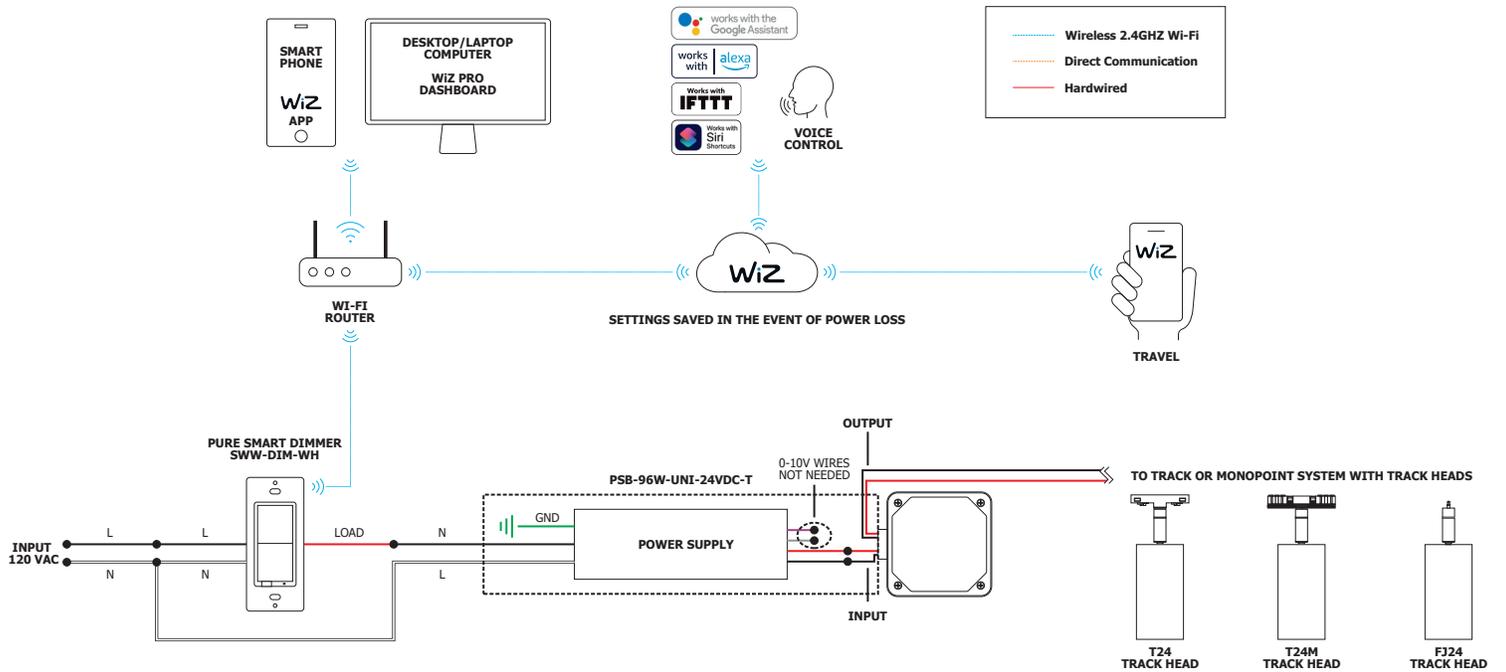
## ELV WIRING DIAGRAM



## 0-10V WIRING DIAGRAM



## SMART WIRING DIAGRAM & NETWORK TOPOGRAPHY



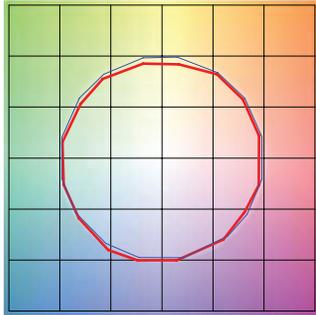
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# TM30 DATA

## LED 24VDC, ADJUSTABLE BEAM SPREAD

**TM-30-15 DATA:** The data below is for Tubo. Consistent color temperatures among multiple track heads is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

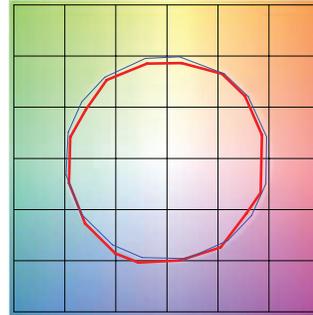
**2400K** | Rf: 91.2 | Rg: 96.8  
Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	92.0	-2.4%	1.5%
2	94.7	-2.1%	0.0%
3	95.4	-1.9%	-0.1%
4	88.7	-6.7%	-3.1%
5	92.8	-5.6%	1.0%
6	92.7	-3.4%	3.4%
7	89.9	-4.3%	4.1%
8	92.4	-1.4%	4.4%
9	89.0	-0.6%	5.8%
10	88.9	0.4%	6.2%
11	89.7	4.0%	5.4%
12	92.6	3.0%	-0.7%
13	90.9	1.1%	-7.0%
14	89.9	0.5%	-5.8%
15	92.1	-3.2%	0.1%
16	88.9	-1.7%	-6.3%

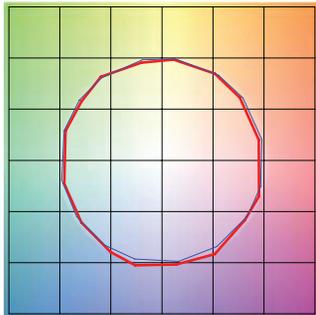
**2700K** | Rf: 87.7 | Rg: 96.1  
Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.0	-4.3%	2.6%
2	91.6	-2.4%	2.0%
3	93.7	-1.4%	1.9%
4	88.9	-5.6%	-3.1%
5	92.3	-5.5%	-0.5%
6	92.9	-3.5%	0.1%
7	84.5	-7.5%	4.6%
8	90.8	-3.0%	4.4%
9	84.5	-1.3%	8.3%
10	83.9	2.0%	9.8%
11	87.2	5.3%	7.1%
12	89.2	5.4%	-2.6%
13	88.7	0.3%	-7.8%
14	86.8	1.7%	-9.3%
15	87.6	-5.4%	-1.3%
16	83.6	-3.3%	-9.5%

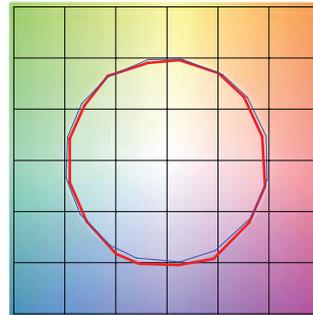
**3000K** | Rf: 88.1 | Rg: 99.7  
Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	92.5	-3.1%	0.3%
2	93.3	-2.3%	1.9%
3	90.9	-0.8%	3.9%
4	94.3	-1.1%	1.4%
5	92.5	-2.6%	1.5%
6	96.4	1.2%	-0.3%
7	92.6	-2.5%	-0.0%
8	96.9	-1.4%	0.2%
9	92.3	-1.8%	4.3%
10	86.6	-0.7%	7.0%
11	86.5	2.4%	8.2%
12	89.8	5.9%	1.7%
13	93.9	2.6%	-2.7%
14	89.4	5.1%	-5.8%
15	90.1	-0.1%	-4.7%
16	86.5	0.3%	-9.7%

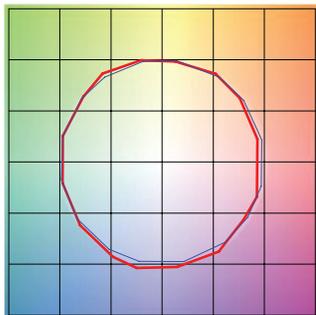
**3500K** | Rf: 86.1 | Rg: 95.5  
Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.8	-3.8%	0.3%
2	92.3	-2.8%	2.1%
3	89.7	-1.0%	4.3%
4	92.6	-1.4%	1.7%
5	91.8	-3.1%	1.3%
6	96.2	0.8%	-0.4%
7	92.9	-3.2%	0.2%
8	94.3	-2.5%	1.5%
9	90.4	-2.5%	5.2%
10	84.3	-1.4%	9.5%
11	83.1	3.5%	9.8%
12	88.2	4.8%	3.4%
13	94.0	2.7%	-2.0%
14	88.7	5.9%	-5.8%
15	88.7	0.7%	-5.9%
16	86.8	-0.7%	-6.7%

**3000D** | Rf: 89.8 | Rg: 101.4  
Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.2	-4.2%	1.5%
2	90.9	-2.0%	3.7%
3	87.9	0.8%	5.5%
4	92.1	-0.9%	0.6%
5	93.0	1.5%	1.6%
6	92.2	3.9%	-0.2%
7	92.1	-0.3%	-2.0%
8	96.7	0.0%	-1.2%
9	92.5	-0.6%	3.7%
10	88.3	1.1%	7.0%
11	87.2	4.1%	7.4%
12	87.2	6.7%	-1.0%
13	88.2	3.8%	-7.2%
14	85.3	4.3%	-9.9%
15	90.9	-2.2%	-3.6%
16	83.4	-2.2%	-11.2%

PROJECT		FIXTURE TYPE		DATE	
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