

# T24M RADIANT LARGE 2-CIRCUIT MAGNETIC TRACK HEAD

24VDC, INTEGRATED LED, STATIC WHITE & WARM DIM TECHNOLOGY

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

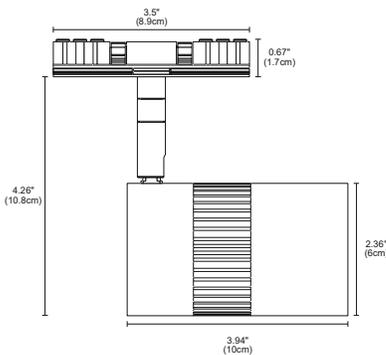
REV 05.29.24



T24M-2C-RADL-SP-30K-WH



T24M-2C-RADL-SP-30K-BK



Magnetic Track Heads Easily Click Into Place



## DESCRIPTION

Our 2-Circuit Magnetic Radiant Large track head forms the perfect marriage of technology and stealth design. This 14-watt, Low Voltage 24VDC fixture is offered with your choice of four beam spreads, optional field-changeable lenses available. The flat-back cylinder with a radiant heat sink swivels 90° vertically and 360° horizontally. Available in 5 color temperatures, including Warm Dim (30D), that dims from 3000K-1800K exhibiting designer-grade color rendering as high as 98 CRI and R9-92. The low voltage track connector is compatible with Magnetic TruTrack and Magnetic Surface Track. Made from Billet Aluminum, producing a high degree of precision and maximum light output within a small package. Radiant Large is ideal for upscale residential, commercial, and retail environments. 5-year pro-rated warranty. For custom quotes and layout assistance, send your drawings and ideas to 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

## DIMMING

- Compatible with Lutron Diva, Skylark and Legrand 0-10 Volt dimmers
- Dimmable to 1%, Flicker less than 2%

## LAMPING

BEAM ANGLE REFERENCE 45°					
COLOR TEMPERATURE	24K	27K	30K	30D	35K
TOTAL LUMENS	1389	1161	1199	838	1422
WATTS	14	14	14	14	14
LUMENS PER WATT (lm/w)	99	83	86	58	102
CRI	97	92	93	97	98
TM-30 DATA	R9: 60 Rf: 93 Rg: 98	R9: 97 Rf: 92 Rg: 100	R9: 64 Rf: 91 Rg: 98	R9: 90 Rf: 95 Rg: 102	R9: 92 Rf: 94 Rg: 101
LAMP LIFE	60,000 Hours, 70% Lumen Maintenance				

## ACCESSORIES

Additional lenses can be ordered and changed in the field offered in NS (10°), SP (20°), NF (35°), FL (45°), WF (60°) beam spread options.

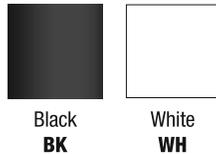
## APPLICATIONS

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

## WARRANTY / LABELS

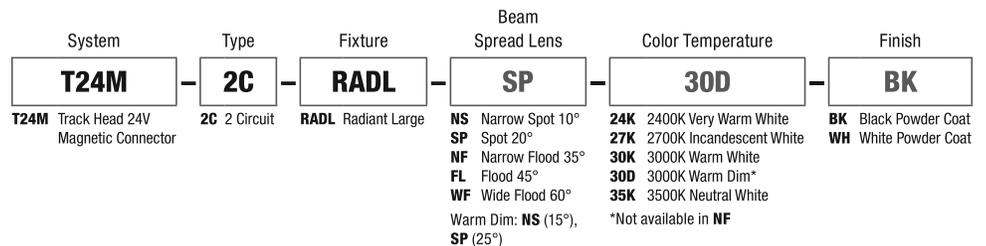
Pro-rated 5 year warranty. Assembled in America, ETL (Conforms to UL1598 and CSA 22.2 #250.0) RoHs, Title 24 JA8 with universal power supplies 27K> CCT.

## FINISHES



Black  
BK

White  
WH



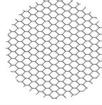
PROJECT	FIXTURE TYPE	DATE
---------	--------------	------

# T24M RADIANT LARGE 2-CIRCUIT MAGNETIC TRACK HEAD

24VDC, INTEGRATED LED, STATIC WHITE & WARM DIM TECHNOLOGY

REV 05.29.24

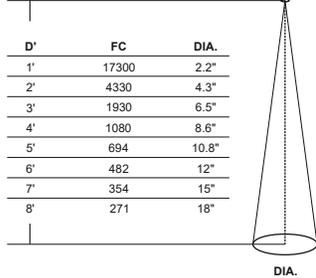
## Additional Lenses and Accessories

	RADIANT LARGE LENS		SNOOT	LOUVER	FOCUS LENS	LINEAR SPREAD FILM
						
<b>ORDERING CODE</b>	<b>STATIC WHITE</b> LEN-RADL-NS-SW LEN-RADL-SP-SW LEN-RADL-NF-SW LEN-RADL-FL-SW LEN-RADL-WF-SW	<b>WARM DIM</b> LEN-RADL-NS-WD LEN-RADL-SP-WD LEN-RADL-FL-WD LEN-RADL-WF-WD	<b>STB16-BK</b> <b>STB16-WH (WHITE SHELL)</b>	<b>LO16-H</b>	<b>LF-RADL-SF (SOFT FOCUS),</b> <b>MF (MEDIUM FOCUS),</b> <b>WF (WIDE FOCUS)</b>	<b>LF-RADL-LS</b>
<b>LENS SIZE</b>	2" (50mm) Diameter					
<b>BEAM SPREADS</b>	<b>NS (10°), SP (20°),</b> <b>NF (35°), FL (45°),</b> <b>WF (60°)</b>	<b>NS (15°), SP (25°),</b> <b>FL (45°), WF (60°)</b>	Conical snoot creates a 7° Beam spread and is designed to reduce spill and control glare. Spun aluminum.	Hexcell louver eliminates glare. 0.125" Thickness.	Soft focus lens is included with every track head. Diffuses the beam, providing uniform illumination.	Linear spread film: directs the light into an elongated beam. Typical applications using 10°, 15°, 25° include illuminating landscape oriented art. 35°, 40°, 60° create an elongated oval typically used for wall washing.

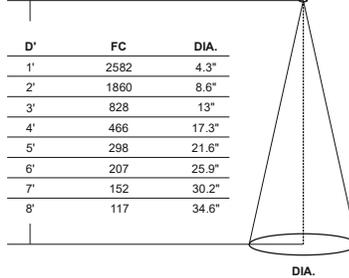
## RADIANT LARGE Photometric Data using 3000K CCT

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

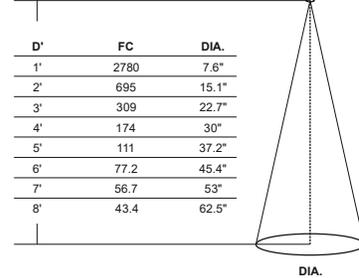
**NARROW SPOT BEAM ANGLE 10°**



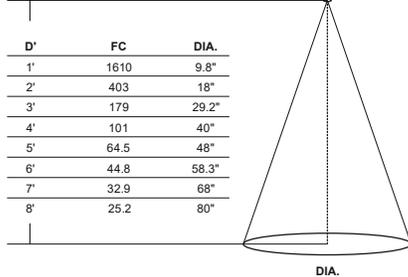
**SPOT BEAM ANGLE 20°**



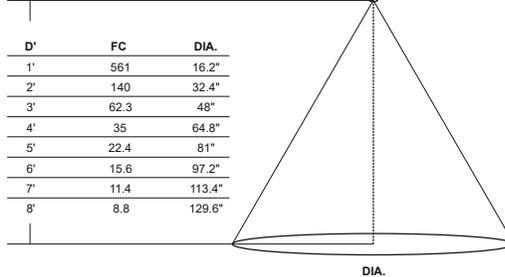
**NARROW FLOOD BEAM ANGLE 35°**



**FLOOD BEAM ANGLE 45°**



**WIDE FLOOD BEAM ANGLE 60°**



PROJECT		FIXTURE TYPE		DATE	
---------	--	--------------	--	------	--

# 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	
---------	--	--------------	--	------	--

# UNIVERSAL POWER SUPPLIES WITH TRIM

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

### UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

	<b>PSB-40W-UNI-24VDC-T</b>	<b>PSB-60W-UNI-24VDC-T</b>	<b>PSB-96W-UNI-24VDC-T</b>
<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>	<b>PSB-40W-UNI-24VDC-T-TB</b>	<b>PSB-60W-UNI-24VDC-T-TB</b>	<b>PSB-96W-UNI-24VDC-T-TB</b>
<b>T-BAR CHICAGO PLENUM</b>	<b>PSB-40W-UNI-24VDC-T-CP</b>	<b>PSB-60W-UNI-24VDC-T-CP</b>	<b>PSB-96W-UNI-24VDC-T-CP</b>

### UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS

	<b>PSB-2X40W-UNI-24VDC-T</b>	<b>PSB-2X60W-UNI-24VDC-T</b>	<b>PSB-2X96W-UNI-24VDC-T</b>
<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>	<b>PSB-2X40W-UNI-24VDC-T-TB</b>	<b>PSB-2X60W-UNI-24VDC-T-TB</b>	<b>PSB-2X96W-UNI-24VDC-T-TB</b>
<b>T-BAR CHICAGO PLENUM</b>	<b>PSB-2X40W-UNI-24VDC-T-CP</b>	<b>PSB-2X60W-UNI-24VDC-T-CP</b>	<b>PSB-2X96W-UNI-24VDC-T-CP</b>

### ELV DIMMING & CONTROLS

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

### 0-10 DIMMING & CONTROLS

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

### TRIAC DIMMING & CONTROLS

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

- 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

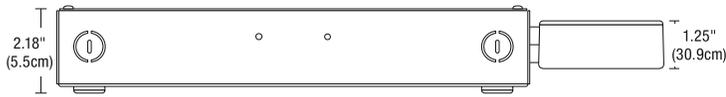
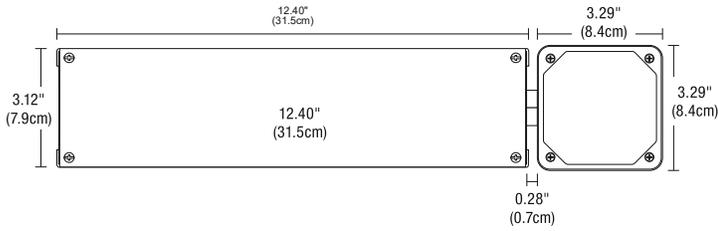
PROJECT		FIXTURE TYPE		DATE	
---------	--	--------------	--	------	--

# UNIVERSAL POWER SUPPLIES WITH TRIM

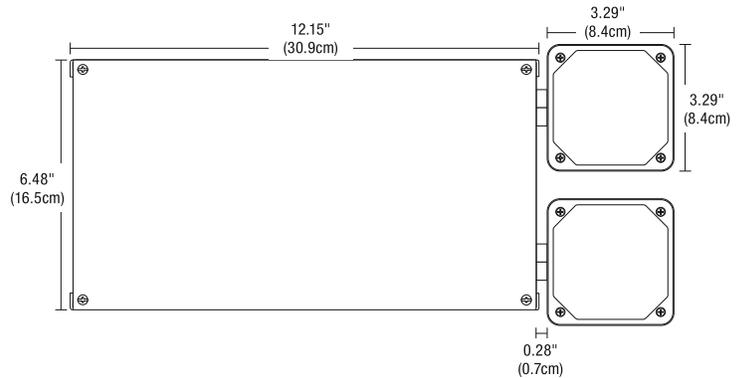
24VDC, UNIVERSAL DIMMING (ELV, TRIAC, 0-10V) STATIC WHITE & WARM DIM FOR TRACK HEADS

## POWER SUPPLY DIMENSIONS & DIAGRAMS

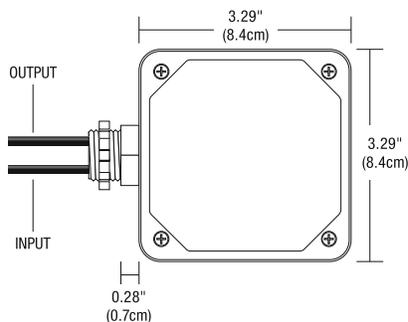
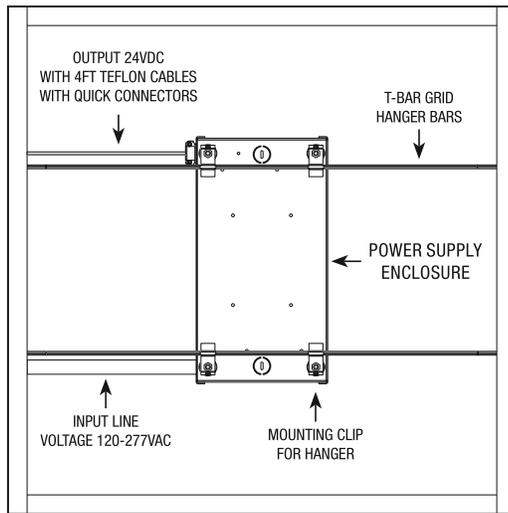
### 40W, 60W, 96W



### 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

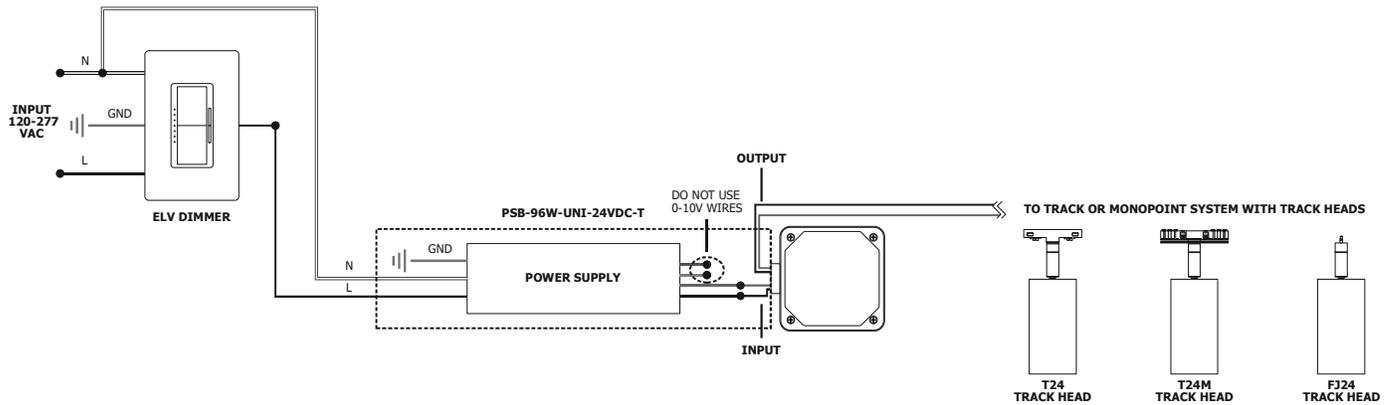
PROJECT	FIXTURE TYPE	DATE
---------	--------------	------

# UNIVERSAL POWER SUPPLIES WITH TRIM

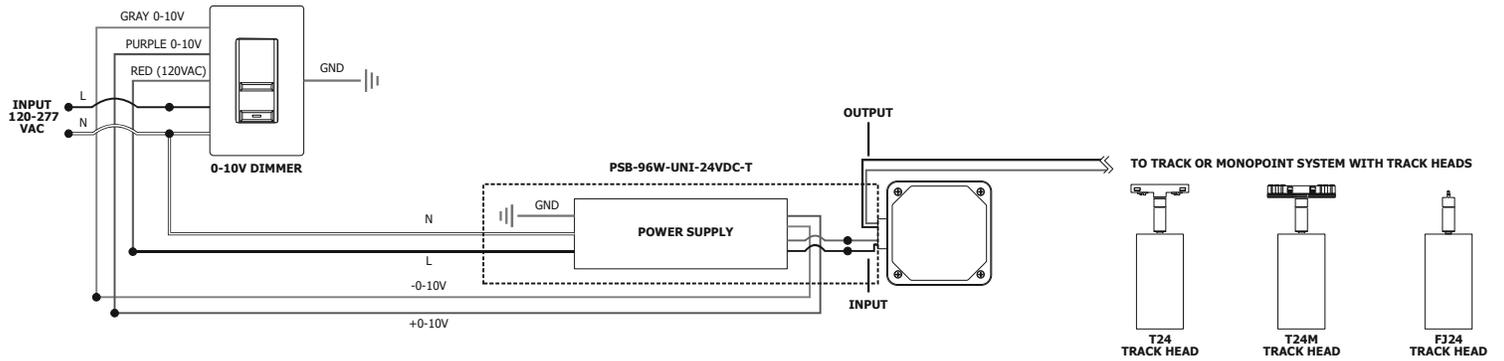
24VDC, UNIVERSAL DIMMING (ELV, TRIAC, 0-10V) STATIC WHITE & WARM DIM FOR TRACK HEADS

REV 05.29.24

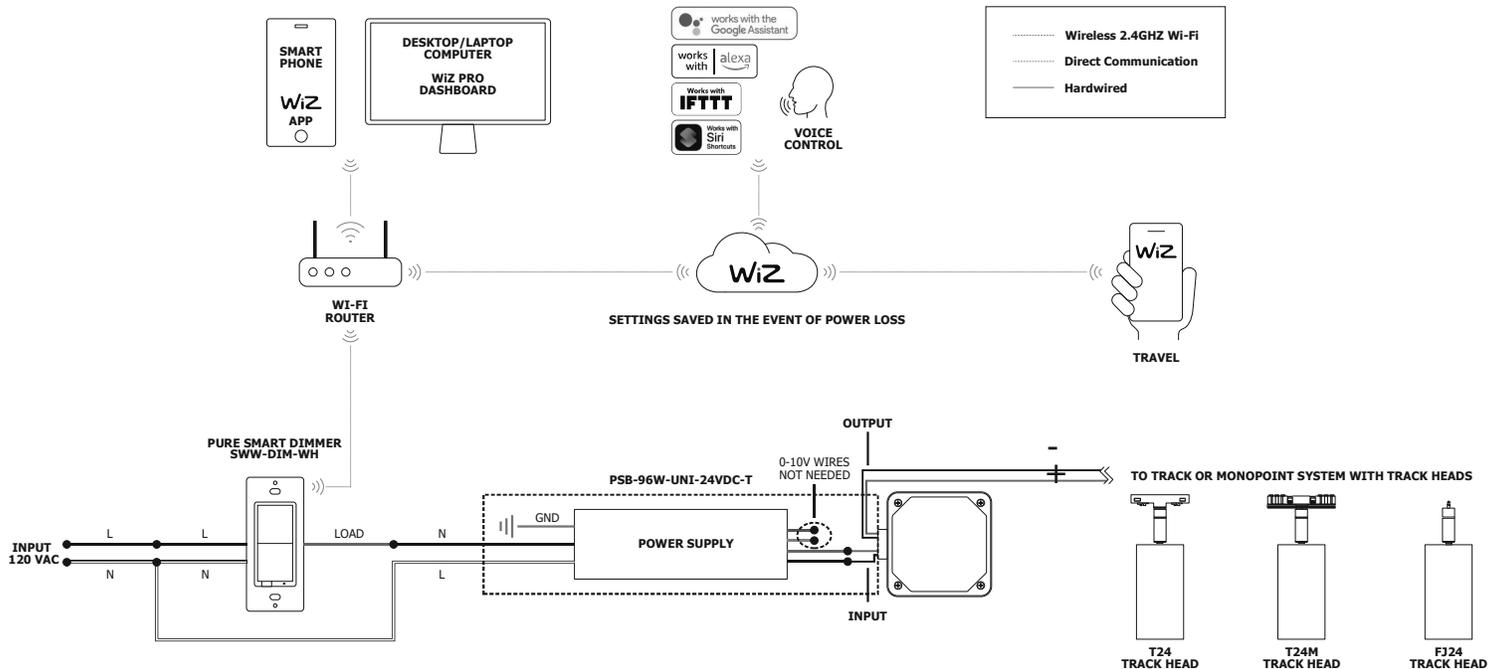
## ELV WIRING DIAGRAM



## 0-10V WIRING DIAGRAM



## SMART WIRING DIAGRAM & NETWORK TOPOGRAPHY



PROJECT		FIXTURE TYPE		DATE	
---------	--	--------------	--	------	--

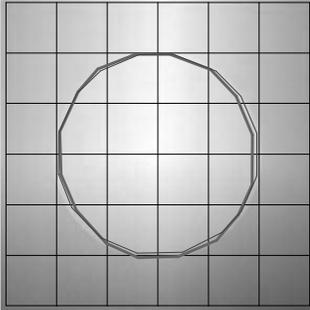
# CEILING TM30 DATA

24VDC, WITH INTEGRATED LED, STATIC WHITE & WARM DIM TECHNOLOGY

**TM-30-15 DATA:** The data below is for Radiant Large. 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: 91.0 | Rg: 99.6

Color Vector Graphic

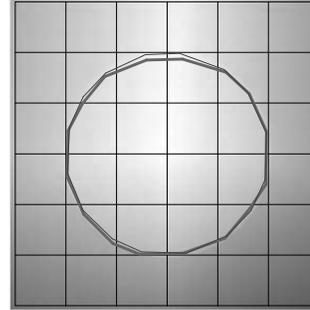


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.1	-4.6%	-0.3%
2	90.6	-4.0%	2.7%
3	88.6	-1.6%	5.1%
4	93.1	-0.9%	2.7%
5	94.6	1.1%	3.3%
6	94.6	2.9%	1.0%
7	94.1	-0.2%	-2.7%
8	97.1	-0.9%	-1.2%
9	94.5	-2.4%	1.0%
10	90.3	-2.5%	4.5%
11	88.6	1.5%	7.1%
12	89.2	4.1%	1.5%
13	90.6	3.4%	-5.3%
14	84.5	3.5%	-8.9%
15	92.3	-0.5%	-4.7%
16	85.4	-2.9%	-9.4%

**2700K** | Rf: 93.3 | Rg: 98.8

Color Vector Graphic

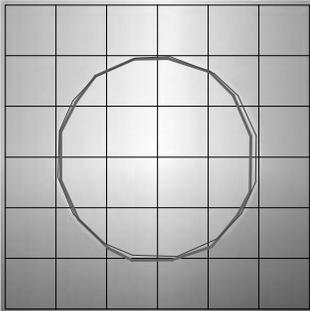


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	95.9	0.3%	0.7%
2	95.5	0.6%	-2.0%
3	93.7	-0.8%	-2.8%
4	89.8	-5.2%	-4.0%
5	93.1	-5.2%	0.2%
6	93.9	-2.4%	2.9%
7	89.0	-3.1%	5.5%
8	93.6	0.5%	3.7%
9	92.9	1.2%	3.8%
10	92.7	2.0%	3.9%
11	93.7	3.2%	2.9%
12	93.7	2.7%	-1.8%
13	94.9	-0.7%	-3.4%
14	94.7	1.3%	-2.4%
15	92.9	-2.1%	2.0%
16	92.2	1.7%	-5.0%

**3000K** | Rf: 90.5 | Rg: 98.0

Color Vector Graphic

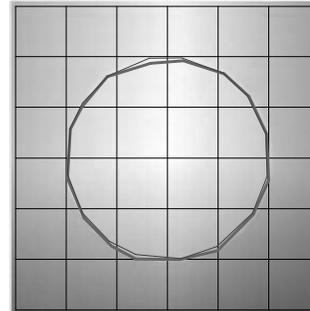


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.7	-5.3%	0.5%
2	90.7	-3.6%	2.8%
3	89.4	-1.7%	4.6%
4	93.3	-2.1%	1.4%
5	94.6	-0.8%	2.2%
6	96.2	0.6%	-0.2%
7	92.5	-3.4%	-0.9%
8	96.4	-1.7%	0.5%
9	92.0	-2.4%	3.7%
10	87.3	-1.1%	7.1%
11	87.6	1.7%	8.2%
12	89.2	4.8%	0.4%
13	90.6	2.5%	-5.7%
14	86.7	3.3%	-9.0%
15	90.9	-2.4%	-3.9%
16	84.1	-3.5%	-10.3%

**3500K** | Rf: 93.9 | Rg: 100.9

Color Vector Graphic

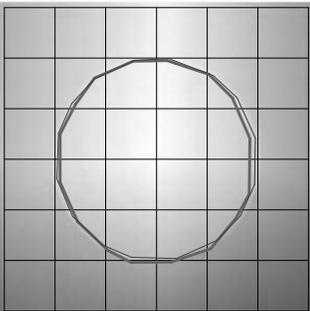


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	95.7	0.6%	0.3%
2	96.7	0.8%	-1.2%
3	96.0	0.2%	-1.0%
4	94.3	-2.5%	-1.9%
5	93.2	-4.8%	-0.2%
6	97.1	-0.3%	1.4%
7	93.8	-1.7%	3.2%
8	97.3	0.2%	1.3%
9	93.3	0.8%	4.2%
10	91.4	1.4%	5.2%
11	90.6	2.8%	4.5%
12	92.6	4.4%	0.5%
13	96.3	0.7%	-1.9%
14	93.9	3.6%	-1.8%
15	92.4	1.2%	-0.9%
16	91.5	2.3%	-3.3%

**3000D** | Rf: 90.5 | Rg: 98.0

Color Vector Graphic



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.7	-5.3%	0.5%
2	90.7	-3.6%	2.8%
3	89.4	-1.7%	4.6%
4	93.3	-2.1%	1.4%
5	94.6	-0.8%	2.2%
6	96.2	0.6%	-0.2%
7	92.5	-3.4%	-0.9%
8	96.4	-1.7%	0.5%
9	92.0	-2.4%	3.7%
10	87.3	-1.1%	7.1%
11	87.6	1.7%	8.2%
12	89.2	4.8%	0.4%
13	90.6	2.5%	-5.7%
14	86.7	3.3%	-9.0%
15	90.9	-2.4%	-3.9%
16	84.1	-3.5%	-10.3%

PROJECT	FIXTURE TYPE	DATE
---------	--------------	------