

# PIPELINE® TRACK SUSPENSION WITH UPLIGHT

## 24VDC, SINGLE OR 2-CIRCUIT, POWER END FEED



### DESCRIPTION

Pipeline Two Circuit Suspension Track with Uplight is a Linear fixture with an integrated LED Uplight and Track Heads that are controlled independently of one another. Custom-tailor the Pipeline Two Circuit Suspension to any space instantly by adding Track Heads anywhere along the bottom of the suspension. The Uplight creates a clean, uninterrupted indirect beam of light, available in multiple color temperatures, including Warm Dim 2700K (**27D**) or 3000K (**30D**) that dim down to 1900K. The Pipeline Two Circuit Suspension is compatible with Pure Edge T24 track heads (refer to pages 5-8). The Uplight and Track heads are powered by their own 24VDC remote power supply (ordered separately) that can be located up to 40' away. Fixture includes a 5-year pro-rated warranty. For custom lengths, finishes, designs, and quotes send drawings to [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com).

### FINISHES



Black Powder Paint **BK**  
White Powder Paint **WH**

### LENS

- Uplight - Diffused White Lens with 176° beam spread
- Track Heads - Offered in multiple beam spreads from 15° to 60° (specifications on pages 5-8)

### LAMPING

- 5W - 4.4 Watts per Foot, Lengths up to 8ft
- 95+ CRI at 3000K
- 50,000 Hour Lamp Life

### INSTALLATION

- Pre-wired from a Remote Power Supply feeding 24VDC, 96 watts for Up Light and up to 200 watts for Track lighting per circuit at a maximum of 40' away using #12 Gauge Wire
- Includes adjustable 12' Coaxial Cables

### REMOTE POWER SUPPLIES (ORDER SEPARATELY)

24VDC, Class 2 wiring

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

### APPLICATIONS

Designed for indoor use only. Ideal environments include commercial, architectural and retail spaces in addition to offices, conference rooms, entrance halls and lobbies.

### APPROVALS

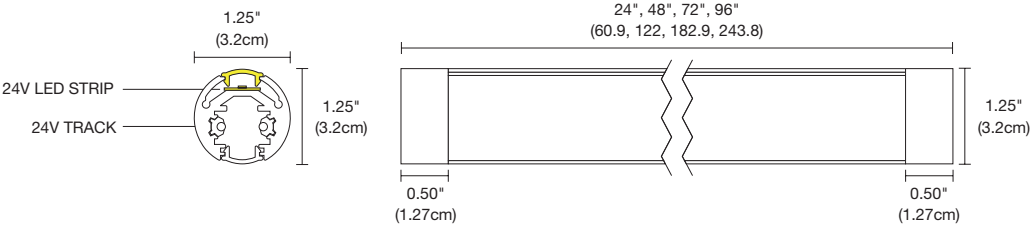
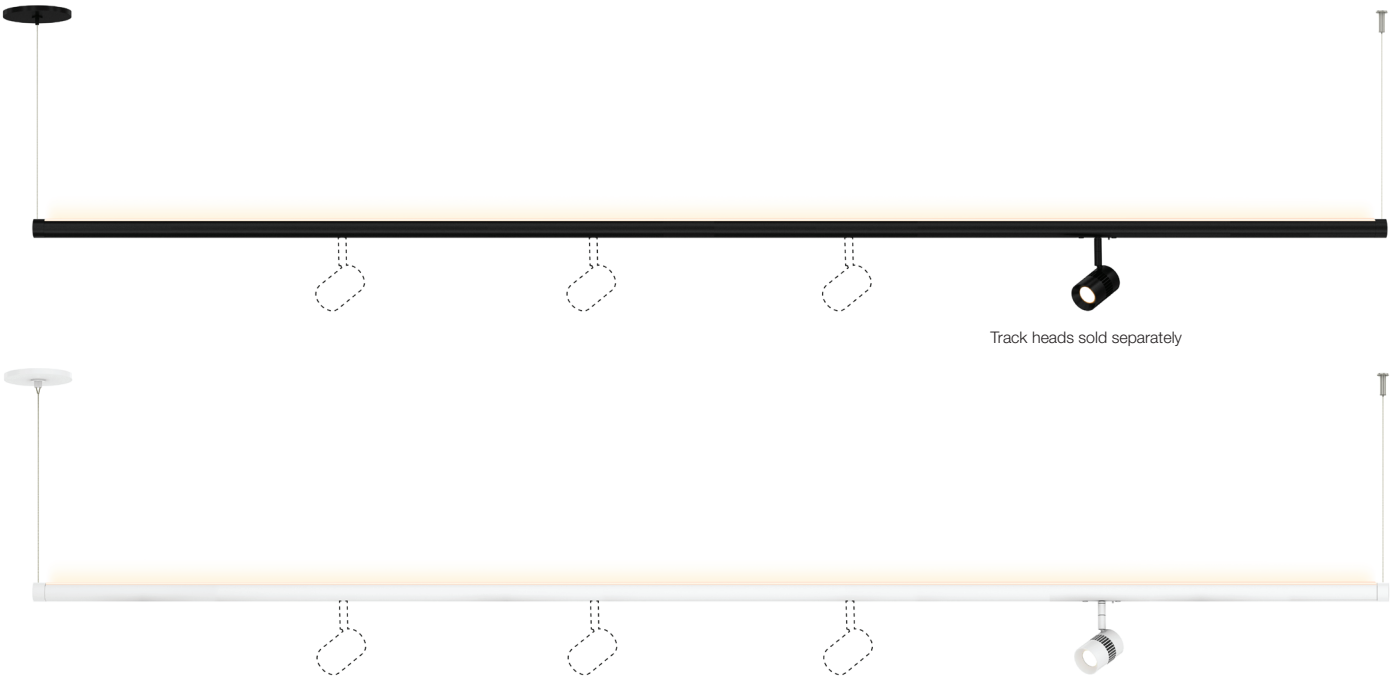
Class 2 Wiring up to 100 watts, Damp Location Suitable, ETL listed. Assembled in America.

| System                                                                   | Indirect Lighting<br>Wattage Per Foot | Canopy                                                                                                                                                                                                                                                                                                                               | Nominal<br>Size                                                          | Indirect Color Temperature                                                                                                                                            | Finish                                                       |
|--------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <b>PSTU2CR</b>                                                           | <b>5W</b>                             | <b>2R</b>                                                                                                                                                                                                                                                                                                                            | <b>2</b>                                                                 | <b>30K</b>                                                                                                                                                            | <b>WH</b>                                                    |
| <b>PSTU2CR</b> Suspension Track, with Uplight, Two circuit, Remote Power | <b>5W</b> 4.4 Watts                   | <b>2R</b> 2.8" Round Canopy<br><b>4R</b> 4.6" Round Canopy<br><b>2R2</b> 2 X 2.8" Round Canopy<br><b>4R2</b> 2 X 4.6" Round Canopy<br><b>VP</b> Vanishing Point Plaster in system with No Canopy, only dual cable going through drywall ceiling with GJ24 is visible<br>See Pages 5-8 for Track Head information and ordering codes. | <b>2</b> 2 Feet<br><b>4</b> 4 Feet<br><b>6</b> 6 Feet<br><b>8</b> 8 Feet | <b>24K</b> 2400K Very Warm White<br><b>27K</b> 2700K Incandescent White<br><b>30K</b> 3000K Warm White<br><b>30D</b> 3000K Warm Dim<br><b>35K</b> 3500K Neutral White | <b>BK</b> Black Powder Paint<br><b>WH</b> White Powder Paint |

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| PROJECT |  | FIXTURE TYPE |  | DATE |  |
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# PIPELINE® TRACK SUSPENSION WITH UPLIGHT

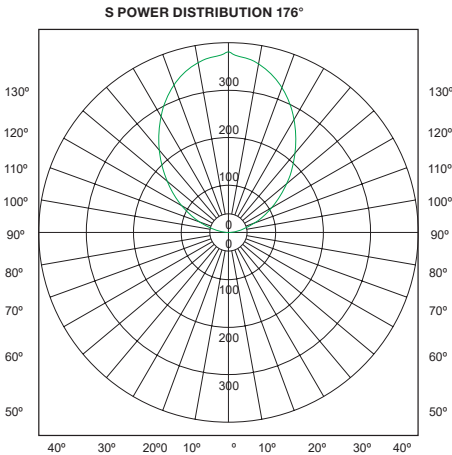
24VDC, SINGLE OR 2-CIRCUIT, POWER END FEED



## LAMP DATA Lamp Data for Pipeline Track Suspension with Uplight and Remote Power

| PSTU                    |                |
|-------------------------|----------------|
| INDIRECT LIGHTING       |                |
| WATTS FOOT              | 5w (4.4 watts) |
| COLOR TEMPERATURE       | 30K            |
| LUMENS PER FOOT (lm/ft) | 250            |
| LUMENS PER WATT (lm/w)  | 100            |
| CRI                     | 95+            |

| 30K                     |                        |                    |                                 |
|-------------------------|------------------------|--------------------|---------------------------------|
| Nominal Length (Inches) | Actual Length (Inches) | Total Wattage (5W) | Total Lumens Uplight 3000K (5W) |
| 48                      | 51                     | 50                 | 1176                            |
| 72                      | 75                     | 70                 | 2352                            |
| 96                      | 99                     | 100                | 3000                            |

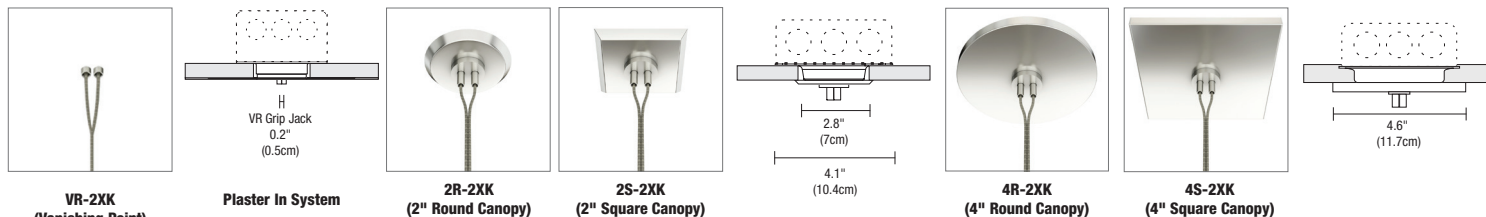


# PIPELINE® TRACK SUSPENSION WITH UPLIGHT

24VDC, SINGLE OR 2-CIRCUIT, POWER END FEED

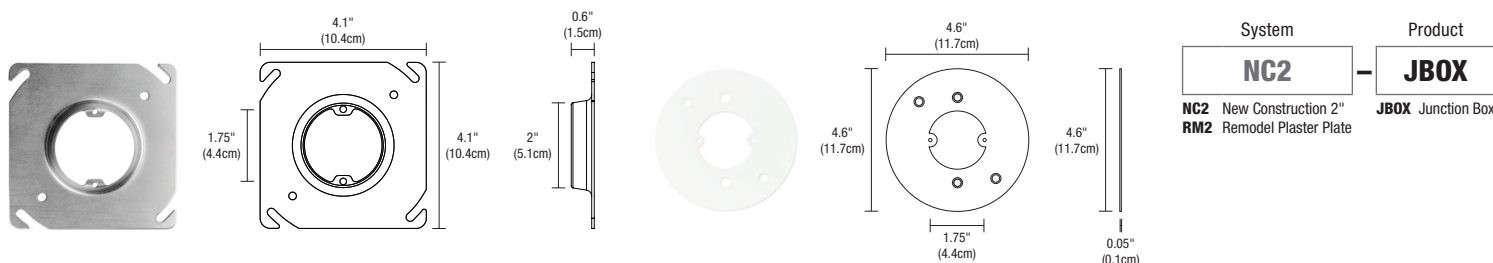
## REMOTE POWER CANOPIES

The 2" Round and Square canopies include a NC2-JBOX junction box cover. The 4" canopies mount to a standard 4" junction box. Vanishing point is the only truly trimless and flush design available on the market with cables that disappear into the ceiling. Refer to the [Vanishing Point specification](#) for details and requirements including millwork options.

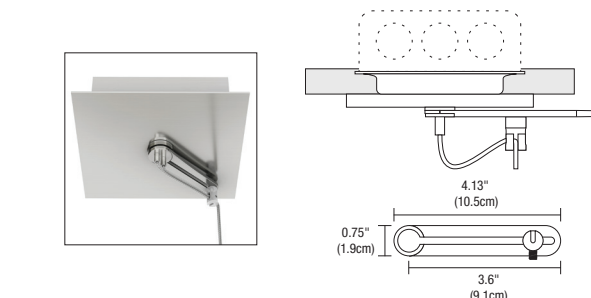


## NEW CONSTRUCTION & REMODEL 2" COVER FOR 4" SQUARE JUNCTION BOX

The New Construction NC2-JBOX cover is included with the 2" round and square canopies and is not required for the 4" square canopies. The NC2 cover mounts to a standard 4" junction or octagon box accommodating the 2" Plaster Ring for use with the 2R and 2S canopies. The Remodel RM2-JBOX plaster plate cover must be used with the supplied PureEdge junction box.



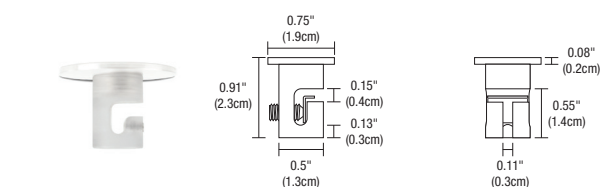
**ACCESSORIES** Additional components may be required based on lighting design and application.



## CHANNEL SUSPENSION ADJUSTABLE SWAG BAR AND HOOK

Channel Suspension Adjustable Swag Bar and Hook allows a cable to form a straight connection to the channel when the Power Canopy is not located directly above the fixture. Use when you have two or more canopies (power supplies) on the same fixture run. The Adjustable Swag Hook is compatible with the 2R, 2S, 4R and 4S Power Canopies (Canopy not included).

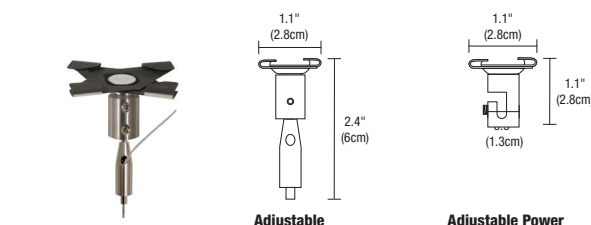
| Product               | Type                                                                                                        | Finish          |
|-----------------------|-------------------------------------------------------------------------------------------------------------|-----------------|
| <b>CS</b>             | <b>ADJ-DP-SWAG</b>                                                                                          | <b>SN</b>       |
| CS Channel Suspension | ADJ-SWAG Adjustable Swag Hook for Static White<br>ADJ-DP-SWAG Dual Post Adjustable Swag Hook for 2K4K & RGB | SN Satin Nickel |



## CHANNEL SUSPENSION SWAG HOOK

The clear plastic Swag Hook extends a cable from an electrical box that is not located directly above desired fixture location.

| System                | Type           |
|-----------------------|----------------|
| <b>CS</b>             | <b>SWAG</b>    |
| CS Channel Suspension | SWAG Swag Hook |



## CHANNEL SUSPENSION ADJUSTABLE T-BAR CLIP

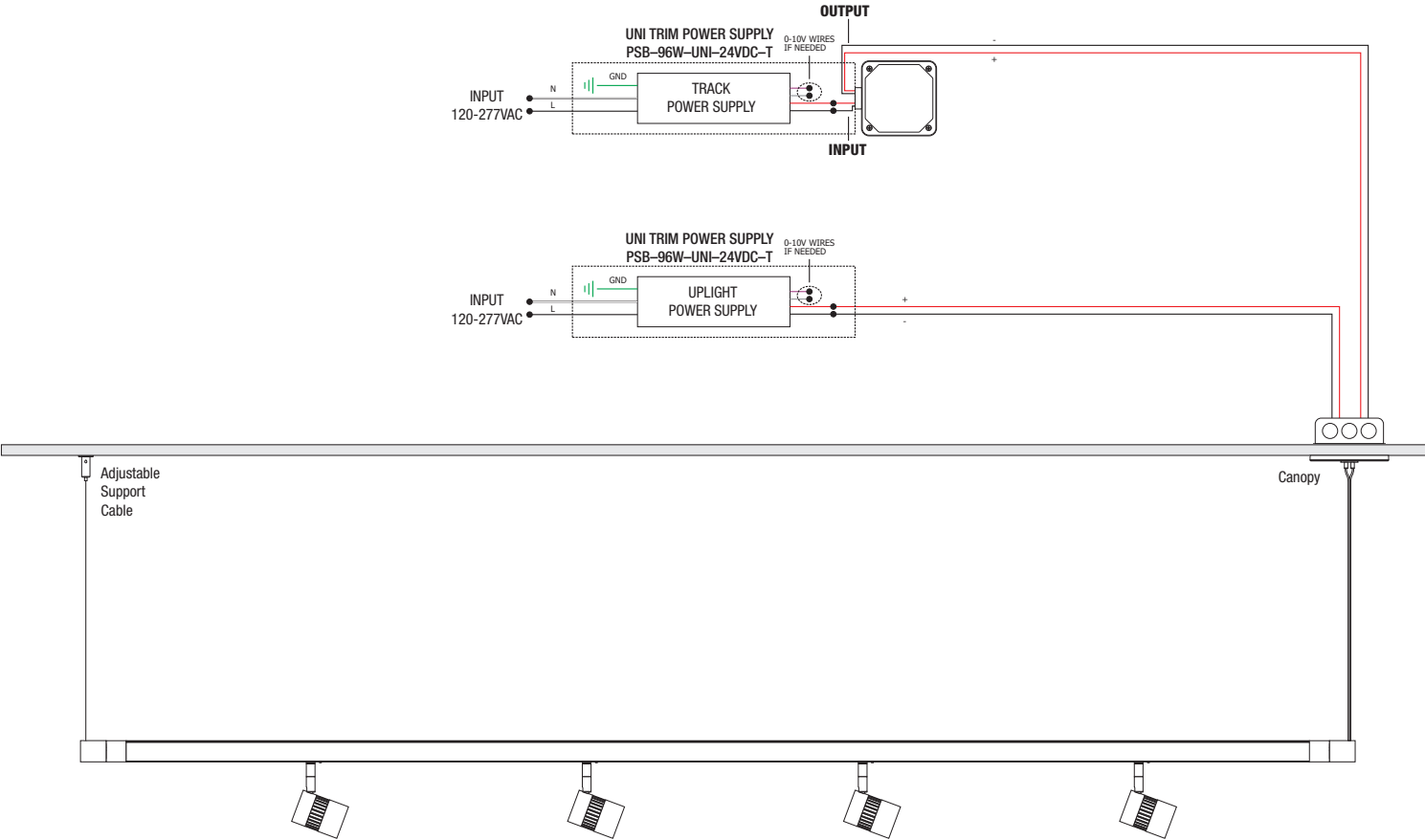
Channel Suspension Adjustable T-Bar Clip mounts to T-Bar grid ceilings. Adjustable is offered in Satin Nickel, Clear plastic for Adjustable Power.

| Product               | Type                  | Options                             | Finish               |
|-----------------------|-----------------------|-------------------------------------|----------------------|
| <b>CS</b>             | <b>TBAR</b>           | <b>A</b>                            | <b>WH</b>            |
| CS Channel Suspension | TBAR 9/16" and 15/16" | A Adjustable<br>AP Adjustable Power | BK Black<br>WH White |

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# PIPELINE® TRACK SUSPENSION WITH UPLIGHT 24VDC, SINGLE OR 2-CIRCUIT, POWER END FEED

**DRAWINGS** Drawings are shown with 4" round canopy



|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
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# T24 TRACK HEADS

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

PureEdge T24 Track Heads are Compatible with TruTrack® (TR24). All uniform beam spread options are field changeable. See accessories page for more information.

## Pure Smart™ TruColor™ RGBTW



| System               | Fixture           | Wattage                       | Beam Spread Lens                                                                          | Control              | Color Temperature                                                | Finish                                                                                           |
|----------------------|-------------------|-------------------------------|-------------------------------------------------------------------------------------------|----------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>T24</b>           | <b>TU2L</b>       | <b>17W</b>                    | <b>NF</b>                                                                                 | <b>WZ</b>            | <b>TC</b>                                                        | <b>BK</b>                                                                                        |
| T24 24V Track System | TU2L Tubo Large 2 | 12W 12 Watts<br>17W 17 Watts* | SP* Spot 16°<br>NF Narrow Flood 30°<br>FL* Flood 35°<br>WF Wide Flood 45°<br>WW Wall Wash | WZ WiZ Smart Control | TC TruColor™ RGBTW Red, Green, Blue & Tunable White 1500K- 6500K | BK Black Powder Coat<br>PW Pure White Powder Coat RAL 9016<br>WH Warm White Powder Coat RAL 9010 |
|                      |                   | *Not available for WH Finish  | *Has Aura Effect without diffusion film                                                   |                      |                                                                  |                                                                                                  |

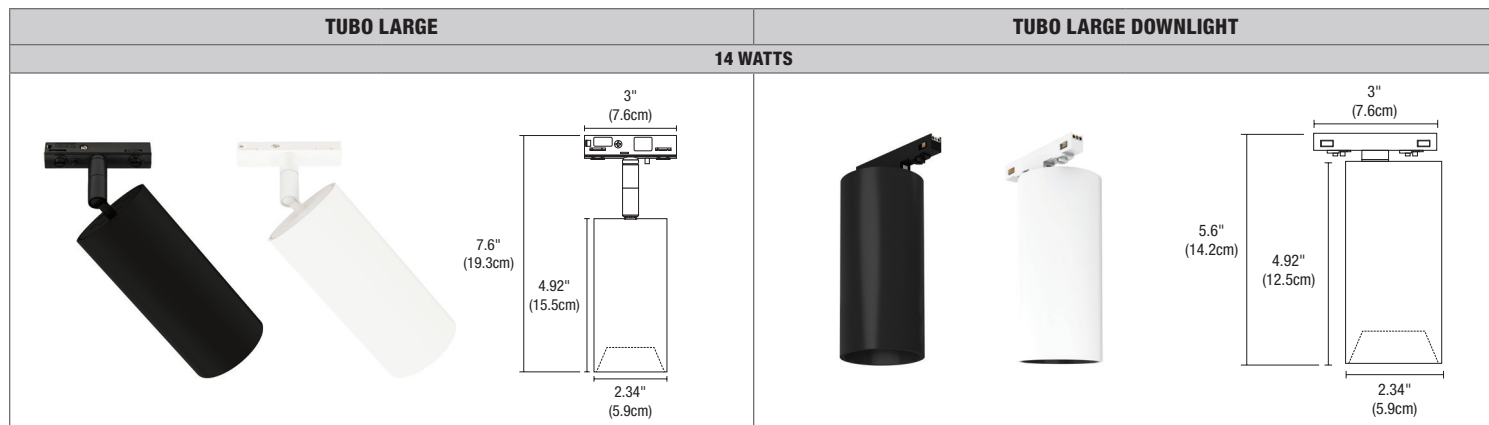
|                        | 12W     |         |         |         |         |         |         |         |         | 17W    |        |        |        |        |        |        |        |        |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| WATTS                  | 20K     | 22K     | 24K     | 27K     | 30K     | 35K     | 40K     | 57K     | 65K     | 20K    | 22K    | 24K    | 27K    | 30K    | 35K    | 40K    | 57K    | 65K    |
| COLOR TEMPERATURE      | 445     | 462     | 507     | 596     | 670     | 737     | 751     | 596     | 494     | 830    | 862    | 962    | 1130   | 1271   | 1401   | 1531   | 1307   | 1082   |
| LUMENS                 | 44      | 44      | 47      | 52      | 56      | 61      | 64      | 60      | 56      | 64     | 62     | 65     | 72     | 79     | 87     | 96     | 93     | 82     |
| LUMENS PER WATT (lm/w) | 86.7    | 88.3    | 89.7    | 93.2    | 95.2    | 96.8    | 96.7    | 93.9    | 91.6    | 86.4   | 88.4   | 91.8   | 94.7   | 95.9   | 97.3   | 96.5   | 94.8   | 93.3   |
| CRI                    | -0.0027 | -0.0011 | -0.0019 | -0.0022 | -0.0023 | -0.0005 | -0.0005 | -0.0041 | -0.0036 | 0.0026 | 0.0026 | 0.0026 | 0.0033 | 0.0037 | 0.0024 | 0.0008 | 0.0024 | 0.0006 |
| Duv                    | 87      | 88      | 90      | 93      | 94      | 94      | 93      | 93      | 91      | 88     | 89     | 92     | 94     | 95     | 95     | 94     | 93     | 92     |
| Rf                     | 104     | 101     | 103     | 103     | 103     | 101     | 100     | 105     | 106     | 105    | 105    | 105    | 104    | 104    | 103    | 100    | 105    | 105    |
| Rg                     | 91      | 92      | 90      | 94      | 97      | 98      | 94      | 80      | 66      | 84     | 86     | 92     | 97     | 97     | 98     | 85     | 90     | 83     |
| R9                     | 83      | 85      | 87      | 91      | 93      | 96      | 96      | 93      | 92      | 82     | 85     | 89     | 93     | 94     | 96     | 99     | 96     | 96     |
| R13                    | 92      | 93      | 93      | 95      | 96      | 97      | 95      | 91      | 88      | 90     | 91     | 93     | 96     | 96     | 97     | 96     | 94     | 93     |
| R15                    | 10      | 11      | 11      | 12      | 12      | 12      | 12      | 10      | 9       | 13     | 14     | 15     | 16     | 16     | 16     | 16     | 14     | 13     |
| WATTS                  |         |         |         |         |         |         |         |         |         |        |        |        |        |        |        |        |        |        |

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# T24 TRACK HEADS

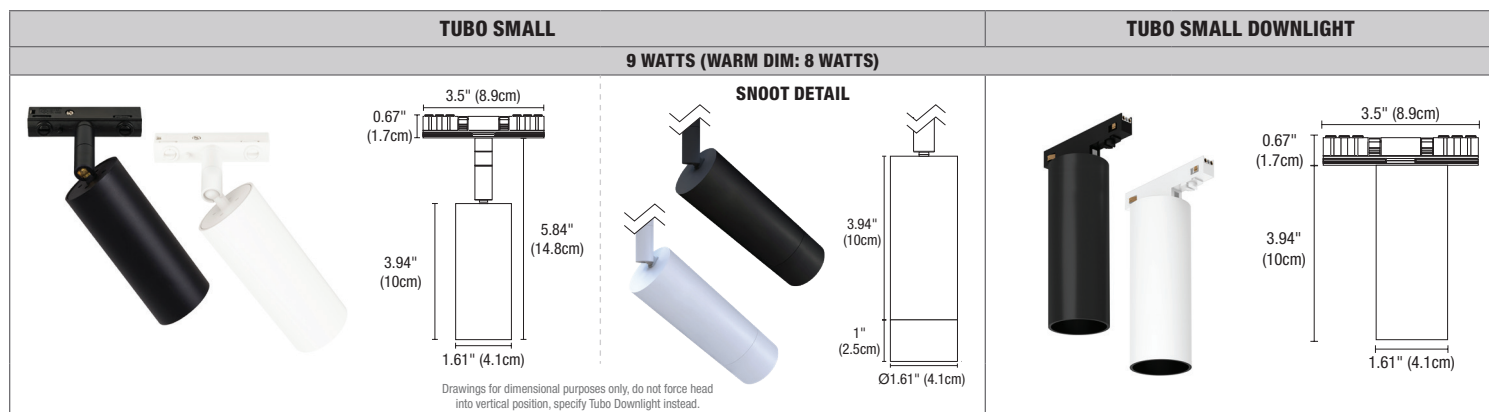
24VDC WITH INTEGRATED LED, STATIC WHITE & WARM DIM TECHNOLOGY

All uniform beam spread options are field changeable. See accessories page for more information.



| System               | Fixture                                       | Beam Spread                                                                                                                       | Color Temperature                                                                                                                                              | Finish                                                                                           |
|----------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>T24</b>           | <b>TUBL</b>                                   | <b>FL</b>                                                                                                                         | <b>30K</b>                                                                                                                                                     | <b>WH</b>                                                                                        |
| T24 24V Track System | TUBL Tubo Large<br>TUBLD Tubo Large Downlight | NS Narrow Spot 10°<br>SP Spot 20°<br>NF Narrow Flood 35°<br>FL Flood 45°<br>WF Wide Flood 60°<br>For 7° use TUBS-ST snoot with NS | 24K 2400K Very Warm White<br>27K 2700K Incandescent White<br>30D 3000D Warm Dim<br>30K 3000K Warm White<br>35K 3500K Neutral White<br>30D NS: 7.5W, 400 lumens | BK Black Powder Coat<br>WH Warm White Powder Coat RAL 9010<br>PW Pure White Powder Coat RAL 9016 |

| BEAM ANGLE REFERENCE 45° |                      |                       |                      |                       |                       |
|--------------------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| COLOR TEMPERATURE        | 24K                  | 27K                   | 30K                  | 30D                   | 35K                   |
| TOTAL LUMENS             | 1238                 | 1035                  | 1069                 | 683                   | 1268                  |
| WATTS                    | 14                   | 14                    | 14                   | 14                    | 14                    |
| LUMENS PER WATT (lm/w)   | 88                   | 74                    | 76                   | 49                    | 91                    |
| CRI                      | 97                   | 92                    | 91                   | 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 |



| System               | Fixture                                       | Beam Spread                                                                                                                        | Color Temperature                                                                                                                  | Finish                                                     |
|----------------------|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>T24</b>           | <b>TUBS</b>                                   | <b>FL</b>                                                                                                                          | <b>30K</b>                                                                                                                         | <b>WH</b>                                                  |
| T24 24V Track System | TUBS Tubo Small<br>TUBSD Tubo Small Downlight | NS* Narrow Spot 15°<br>SP Spot 25°<br>NF Narrow Flood 35°<br>FL Flood 45°<br>WF Wide Flood 60°<br>*NS with 30D Warm Dim uses snoot | 24K 2400K Very Warm White<br>27K 2700K Incandescent White<br>30D 3000D Warm Dim<br>30K 3000K Warm White<br>35K 3500K Neutral White | BK Black Powder Coat<br>WH Warm White Powder Coat RAL 9010 |

| BEAM ANGLE REFERENCE 45° |                      |                       |                      |                       |                       |
|--------------------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|
| COLOR TEMPERATURE        | 24K                  | 27K                   | 30K                  | 30D                   | 35K                   |
| TOTAL LUMENS             | 503                  | 420                   | 434                  | 287                   | 515                   |
| WATTS                    | 9                    | 9                     | 9                    | 8                     | 9                     |
| LUMENS PER WATT (lm/w)   | 59                   | 49                    | 51                   | 39                    | 61                    |
| CRI                      | 97                   | 92                    | 93                   | 94                    | 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 |

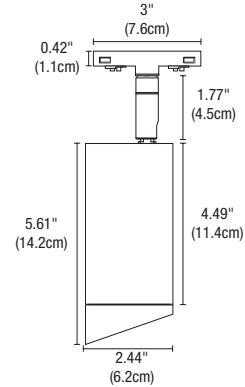
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# T24 TRACK HEADS

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

## TUBO LARGE WALL WASH

15 WATTS

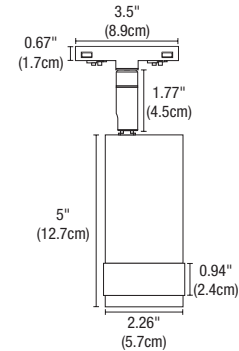


| System             | Fixture         | Beam Spread  | Color Temperature                                                                                                                                                              | Finish                                                                                                                |
|--------------------|-----------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>T24</b>         | <b>TUBL</b>     | <b>WW</b>    | <b>30K</b>                                                                                                                                                                     | <b>BK</b>                                                                                                             |
| T24 Track Head 24V | TUBL Tubo Large | WW Wall Wash | <b>24K</b> 2400K Very Warm White<br><b>27K</b> 2700K Incandescent White<br><b>30K</b> 3000K Warm White<br><b>30D</b> 3000K Warm Dim to 1800K<br><b>35K</b> 3500K Neutral White | <b>BK</b> Black Powder Coat<br><b>WH</b> Warm White Powder Coat RAL 9010<br><b>PW</b> Pure White Powder Coat RAL 9016 |

| TUBO WALL WASH         |                       |
|------------------------|-----------------------|
| COLOR TEMPERATURE      | 30K                   |
| TOTAL LUMENS           | 884                   |
| WATTS                  | 15                    |
| LUMENS PER WATT (lm/w) | 59                    |
| CRI                    | 92                    |
| TM-30 DATA             | R9: 61 Rf: 92 Rg: 100 |

## ZOOM

16 WATTS



| System                       | Fixture     | Beam Spread                                                          | Color Temperature                                                                                                                                                                                         | Finish                                                                   |
|------------------------------|-------------|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>T24</b>                   | <b>ZOOM</b> | <b>Z2</b>                                                            | <b>30K</b>                                                                                                                                                                                                | <b>BK</b>                                                                |
| T24 Track Head 24V Connector | ZOOM Zoom   | <b>Z1</b> Zoom Adjust 15° to 55°<br><b>Z2</b> Zoom Adjust 20° to 50° | <b>24K</b> 2400K Very Warm White<br><b>27K</b> 2700K Incandescent White<br><b>30K</b> 3000K Warm White<br><b>30D</b> 3000K Warm Dim to 1800K*<br><b>35K</b> 3500K Neutral White<br>*Only available for Z2 | <b>BK</b> Black Powder Coat<br><b>WH</b> Warm White Powder Coat RAL 9010 |

|                        | 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 |

|         |  |              |  |      |  |
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| PROJECT |  | FIXTURE TYPE |  | DATE |  |
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# T24 TRACK HEADS

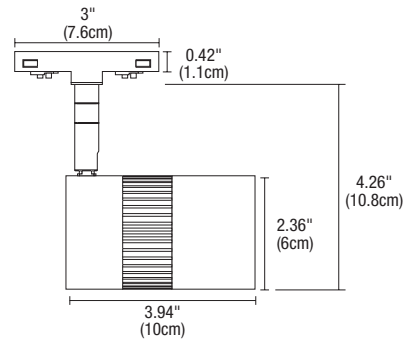
24VDC WITH INTEGRATED LED, STATIC WHITE & WARM DIM TECHNOLOGY

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All uniform beam spread options are field changeable, see accessories page.

## RADIANT LARGE

14 WATTS



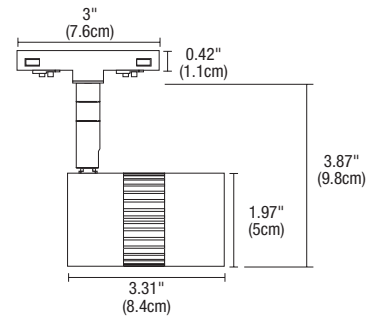
| System               | Fixture            | Beam Spread                                                                                                                                                                       | Color Temperature                                                                                                                                                                              | Finish                                                                      |
|----------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>T24</b>           | <b>RADL</b>        | <b>FL</b>                                                                                                                                                                         | <b>30K</b>                                                                                                                                                                                     | <b>WH</b>                                                                   |
| T24 24V Track System | RADL Radiant Large | <b>NS</b> Narrow Spot 10°<br><b>SP</b> Spot 20°<br><b>NF</b> Narrow Flood 35°<br><b>FL</b> Flood 45°<br><b>WF</b> Wide Flood 60°<br>Warm Dim:<br><b>NS</b> (15°), <b>SP</b> (25°) | <b>24K</b> 2400K Very Warm White<br><b>27K</b> 2700K Incandescent White<br><b>30K</b> 3000K Warm White<br><b>30D</b> 3000D Warm Dim*<br><b>35K</b> 3500K Neutral White<br>*Not available in NF | <b>BK</b> Black Powder Coat<br><b>WH</b> Warm White Powder Coat<br>RAL 9010 |

### 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 |

## RADIANT MEDIUM

11 WATTS (WARM DIM: 8 WATTS)



| System               | Fixture             | Beam Spread                                                                                         | Color Temperature                                                                                                                                                     | Finish                                                                      |
|----------------------|---------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <b>T24</b>           | <b>RADM</b>         | <b>FL</b>                                                                                           | <b>30K</b>                                                                                                                                                            | <b>WH</b>                                                                   |
| T24 24V Track System | RADM Radiant Medium | <b>SP</b> Spot 20°<br><b>NF</b> Narrow Flood 35°<br><b>FL</b> Flood 45°<br><b>WF</b> Wide Flood 60° | <b>24K</b> 2400K Very Warm White<br><b>27K</b> 2700K Incandescent White<br><b>30K</b> 3000K Warm White<br><b>30D</b> 3000D Warm Dim<br><b>35K</b> 3500K Neutral White | <b>BK</b> Black Powder Coat<br><b>WH</b> Warm White Powder Coat<br>RAL 9010 |

### BEAM ANGLE REFERENCE 45°

| COLOR TEMPERATURE      | 24K                   | 27K                  | 30K                   | 30D                   | 35K                   |
|------------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|
| TOTAL LUMENS           | 765                   | 639                  | 660                   | 360                   | 783                   |
| WATTS                  | 11                    | 11                   | 11                    | 7.7                   | 11                    |
| LUMENS PER WATT (lm/w) | 70                    | 58                   | 64                    | 47                    | 76                    |
| CRI                    | 97                    | 92                   | 93                    | 93                    | 98                    |
| TM-30 DATA             | R9: 97 Rf: 92 Rg: 100 | R9: 64 Rf: 91 Rg: 98 | R9: 90 Rf: 95 Rg: 102 | R9: 92 Rf: 94 Rg: 101 | R9: 92 Rf: 94 Rg: 101 |

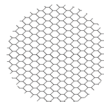
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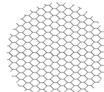
# T24 TRACK HEADS

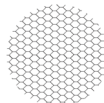
24VDC WITH INTEGRATED LED, STATIC WHITE & WARM DIM TECHNOLOGY

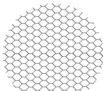
## Additional Lenses and Accessories

REV 11.04.25

| TUBO LARGE LENS                                                                   |                                                                                                                                                                                            | SNOOT                                                                             |                                                                                                          | LOUVER                                                                             | FOCUS LENS                                                                          | LINEAR SPREAD FILM                                                                                    |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                                            |  |                         |  |  |                    |
| ORDERING CODE                                                                     | STATIC WHITE<br>LEN-TUBL-NS-SW<br>LEN-TUBL-SP-SW<br>LEN-TUBL-NF-SW<br>LEN-TUBL-FL-SW<br>LEN-TUBL-WF-SW<br>WARM DIM<br>LEN-TUBL-SP-WD<br>LEN-TUBL-NF-WD<br>LEN-TUBL-FL-WD<br>LEN-TUBL-WF-WD | STB16-BK<br>STB16-WH (WHITE SHELL)                                                | ST16-BK<br>ST16-WH                                                                                       | L016-H                                                                             | LF-TUBL-SF (SOFT FOCUS),<br>MF (MEDIUM FOCUS),<br>WF (WIDE FOCUS)                   | LF-TUBL-LS                                                                                            |
| LENS SIZE                                                                         | 2" (50mm) Diameter                                                                                                                                                                         |                                                                                   |                                                                                                          |                                                                                    |                                                                                     |                                                                                                       |
| BEAM SPREADS                                                                      | NS (10°), SP (20°), NF (35°)<br>FL (45°), WF (60°)                                                                                                                                         |                                                                                   | Conical snoot creates a 7° Beam spread and is designed to reduce spill and control glare. Spun aluminum. | Snoot 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. |

| TUBO SMALL LENS                                                                   |                                                                                                                                                                                                              | SNOOT                                                                             |                                                                                                          | LOUVER                                                                             | FOCUS LENS                                                                          | LINEAR SPREAD FILM                                                                                    |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                                                              |  |                                                                                                          |  |  |                    |
| ORDERING CODE                                                                     | STATIC WHITE<br>LEN-TUBS-NS-SW<br>LEN-TUBS-SP-SW<br>LEN-TUBS-NF-SW<br>LEN-TUBS-FL-SW<br>LEN-TUBS-WF-SW<br>WARM DIM<br>LEN-TUBS-NS-WD<br>LEN-TUBS-SP-WD<br>LEN-TUBS-NF-WD<br>LEN-TUBS-FL-WD<br>LEN-TUBS-WF-WD | TUBS-ST-BK<br>TUBS-ST-WH (WHITE SHELL)                                            |                                                                                                          | L011-H                                                                             | LF-TUBS-SF (SOFT FOCUS),<br>MF (MEDIUM FOCUS),<br>WF (WIDE FOCUS)                   | LF-TUBS-LS                                                                                            |
| LENS SIZE                                                                         | 1.37" (35mm) Diameter                                                                                                                                                                                        |                                                                                   |                                                                                                          |                                                                                    |                                                                                     |                                                                                                       |
| BEAM SPREADS                                                                      | NS (15°), SP (25°), NF (35°),<br>FL (45°), WF (60°)                                                                                                                                                          |                                                                                   | 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. |

| RADIANT LARGE LENS                                                                  |                                                                                                                                                                                                              | SNOOT                                                                               |                                                                                                          | LOUVER                                                                               | FOCUS LENS                                                                            | LINEAR SPREAD FILM                                                                                    |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                                                              |  |                                                                                                          |  |  |                  |
| ORDERING CODE                                                                       | STATIC WHITE<br>LEN-RADL-NS-SW<br>LEN-RADL-SP-SW<br>LEN-RADL-NF-SW<br>LEN-RADL-FL-SW<br>LEN-RADL-WF-SW<br>WARM DIM<br>LEN-RADL-NS-WD<br>LEN-RADL-SP-WD<br>LEN-RADL-NF-WD<br>LEN-RADL-FL-WD<br>LEN-RADL-WF-WD | STB16-BK<br>STB16-WH (WHITE SHELL)                                                  |                                                                                                          | L016-H                                                                               | LF-RADL-SF (SOFT FOCUS),<br>MF (MEDIUM FOCUS),<br>WF (WIDE FOCUS)                     | LF-RADL-LS                                                                                            |
| LENS SIZE                                                                           | 2" (50mm) Diameter                                                                                                                                                                                           |                                                                                     |                                                                                                          |                                                                                      |                                                                                       |                                                                                                       |
| BEAM SPREADS                                                                        | NS (10°), SP (20°),<br>NF (35°), FL (45°),<br>WF (60°)                                                                                                                                                       | NS (15°), SP (25°),<br>FL (45°), WF (60°)                                           | 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. |

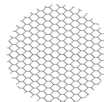
| RADIANT MEDIUM LENS                                                                 |                                                                                                                                                                          | LOUVER                                                                              | FOCUS LENS                                                                           | LINEAR SPREAD FILM                                                                                    |
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|  |                                                                                                                                                                          |  |  |                  |
| ORDERING CODE                                                                       | STATIC WHITE<br>LEN-RADM-SP-SW<br>LEN-RADM-NF-SW<br>LEN-RADM-FL-SW<br>LEN-RADM-WF-SW<br>WARM DIM<br>LEN-RADM-SP-WD<br>LEN-RADM-NF-WD<br>LEN-RADM-FL-WD<br>LEN-RADM-WF-WD | L011-H                                                                              | LF-RADM-SF (SOFT FOCUS)<br>MF (MEDIUM FOCUS), WF (WIDE FOCUS)                        | LF-RADM-LS                                                                                            |
| LENS SIZE                                                                           | 1.37" (35mm) Diameter                                                                                                                                                    |                                                                                     |                                                                                      |                                                                                                       |
| BEAM SPREADS                                                                        | SP (20°), NF (35°), FL (45°), WF (60°)                                                                                                                                   |                                                                                     | Hexcell louver eliminates glare. 0.125" Thickness.                                   | Soft focus lens is included with every track head. Diffuses the beam, providing uniform illumination. |

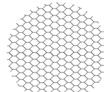
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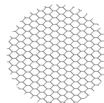
# LENSES AND ACCESSORIES

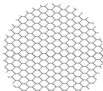
## Additional Lenses and Accessories

REV 11.04.25

| TUBO LARGE LENS                                                                   |                                                                                                                                                                                            | SNOOT                                                                             |                                                                                                          | LOUVER                                                                             | FOCUS LENS                                                                                                                                                      | LINEAR SPREAD FILM                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                                            |  |                         |  |                                                                              |                                                                                                                                          |
| ORDERING CODE                                                                     | STATIC WHITE<br>LEN-TUBL-NS-SW<br>LEN-TUBL-SP-SW<br>LEN-TUBL-NF-SW<br>LEN-TUBL-FL-SW<br>LEN-TUBL-WF-SW<br>WARM DIM<br>LEN-TUBL-SP-WD<br>LEN-TUBL-NF-WD<br>LEN-TUBL-FL-WD<br>LEN-TUBL-WF-WD | STB16-BK<br>STB16-WH (WHITE SHELL)                                                | ST16-BK<br>ST16-WH                                                                                       | L016-H                                                                             | LF-TUBL-SF (SOFT FOCUS),<br>MF (MEDIUM FOCUS),<br>WF (WIDE FOCUS)                                                                                               | LF-TUBL-LS                                                                                                                                                                                                                  |
| LENS SIZE                                                                         | 2" (50mm) Diameter                                                                                                                                                                         |                                                                                   |                                                                                                          |                                                                                    |                                                                                                                                                                 |                                                                                                                                                                                                                             |
| BEAM SPREADS                                                                      | NS (10°), SP (20°), NF (35°)<br>FL (45°), WF (60°)                                                                                                                                         |                                                                                   | Conical snoot creates a 7° Beam spread and is designed to reduce spill and control glare. Spun aluminum. | Snoot is designed to reduce spill and control glare. Spun aluminum.                | Hexcell louver eliminates glare. 0.125" Thickness.<br><br>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. |

| TUBO SMALL LENS                                                                   |                                                                                                                                                                                                              | SNOOT                                                                             |                                                                                                          | LOUVER                                                                             | FOCUS LENS                                                                                                                                                      | LINEAR SPREAD FILM                                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                                                              |  |                                                                                                          |  |                                                                              |                                                                                                                                          |
| ORDERING CODE                                                                     | STATIC WHITE<br>LEN-TUBS-NS-SW<br>LEN-TUBS-SP-SW<br>LEN-TUBS-NF-SW<br>LEN-TUBS-FL-SW<br>LEN-TUBS-WF-SW<br>WARM DIM<br>LEN-TUBS-NS-WD<br>LEN-TUBS-SP-WD<br>LEN-TUBS-NF-WD<br>LEN-TUBS-FL-WD<br>LEN-TUBS-WF-WD | TUBS-ST-BK<br>TUBS-ST-WH (WHITE SHELL)                                            |                                                                                                          | L011-H                                                                             | LF-TUBS-SF (SOFT FOCUS),<br>MF (MEDIUM FOCUS),<br>WF (WIDE FOCUS)                                                                                               | LF-TUBS-LS                                                                                                                                                                                                                  |
| LENS SIZE                                                                         | 1.37" (35mm) Diameter                                                                                                                                                                                        |                                                                                   |                                                                                                          |                                                                                    |                                                                                                                                                                 |                                                                                                                                                                                                                             |
| BEAM SPREADS                                                                      | NS (15°), SP (25°), NF (35°),<br>FL (45°), WF (60°)                                                                                                                                                          |                                                                                   | 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.<br><br>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 LENS                                                                  |                                                                                                                                                                                                              | SNOOT                                                                               |                                                                                                          | LOUVER                                                                               | FOCUS LENS                                                                                                                                                      | LINEAR SPREAD FILM                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                                                              |  |                                                                                                          |  |                                                                            |                                                                                                                                        |
| ORDERING CODE                                                                       | STATIC WHITE<br>LEN-RADL-NS-SW<br>LEN-RADL-SP-SW<br>LEN-RADL-NF-SW<br>LEN-RADL-FL-SW<br>LEN-RADL-WF-SW<br>WARM DIM<br>LEN-RADL-NS-WD<br>LEN-RADL-SP-WD<br>LEN-RADL-NF-WD<br>LEN-RADL-FL-WD<br>LEN-RADL-WF-WD | STB16-BK<br>STB16-WH (WHITE SHELL)                                                  |                                                                                                          | L016-H                                                                               | LF-RADL-SF (SOFT FOCUS),<br>MF (MEDIUM FOCUS),<br>WF (WIDE FOCUS)                                                                                               | LF-RADL-LS                                                                                                                                                                                                                  |
| LENS SIZE                                                                           | 2" (50mm) Diameter                                                                                                                                                                                           |                                                                                     |                                                                                                          |                                                                                      |                                                                                                                                                                 |                                                                                                                                                                                                                             |
| BEAM SPREADS                                                                        | NS (10°), SP (20°),<br>NF (35°), FL (45°),<br>WF (60°)                                                                                                                                                       | NS (15°), SP (25°),<br>FL (45°), WF (60°)                                           | 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.<br><br>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. |

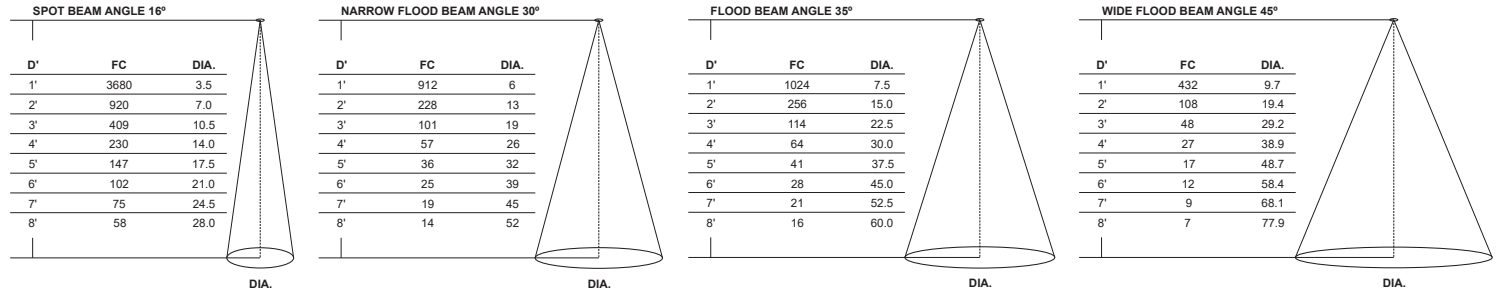
| RADIANT MEDIUM LENS                                                                 |                                                                                                                                                                          | LOUVER                                                                              | FOCUS LENS                                                                                                                                                      | LINEAR SPREAD FILM                                                                                                                                                                                                          |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                                                                                                                                                          |  |                                                                             |                                                                                                                                        |
| ORDERING CODE                                                                       | STATIC WHITE<br>LEN-RADM-SP-SW<br>LEN-RADM-NF-SW<br>LEN-RADM-FL-SW<br>LEN-RADM-WF-SW<br>WARM DIM<br>LEN-RADM-SP-WD<br>LEN-RADM-NF-WD<br>LEN-RADM-FL-WD<br>LEN-RADM-WF-WD | L011-H                                                                              | LF-RADM-SF (SOFT FOCUS)<br>MF (MEDIUM FOCUS), WF (WIDE FOCUS)                                                                                                   | LF-RADM-LS                                                                                                                                                                                                                  |
| LENS SIZE                                                                           | 1.37" (35mm) Diameter                                                                                                                                                    |                                                                                     |                                                                                                                                                                 |                                                                                                                                                                                                                             |
| BEAM SPREADS                                                                        | SP (20°), NF (35°), FL (45°), WF (60°)                                                                                                                                   |                                                                                     | Hexcell louver eliminates glare. 0.125" Thickness.<br><br>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. |

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| PROJECT |  | FIXTURE TYPE |  | DATE |  |
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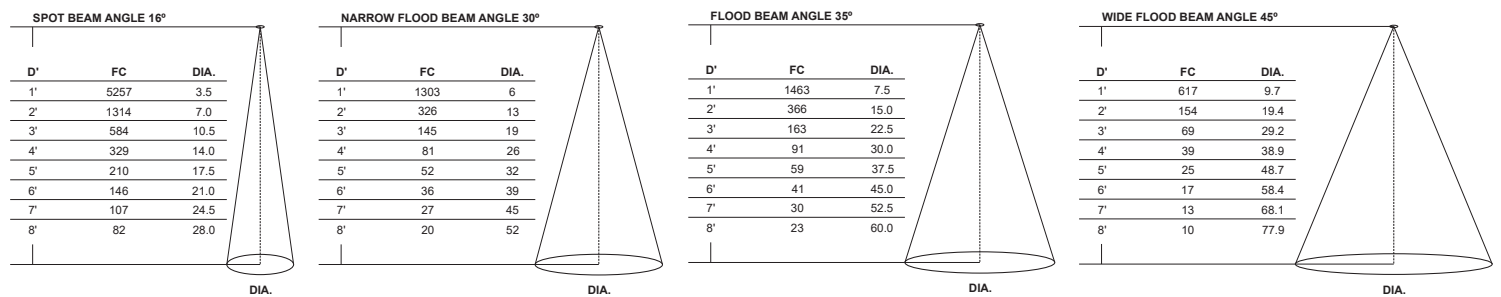
## TUBO LARGE RGBTW SMART TRACKHEAD Photometric Data at 3000K

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

### 12 Watt

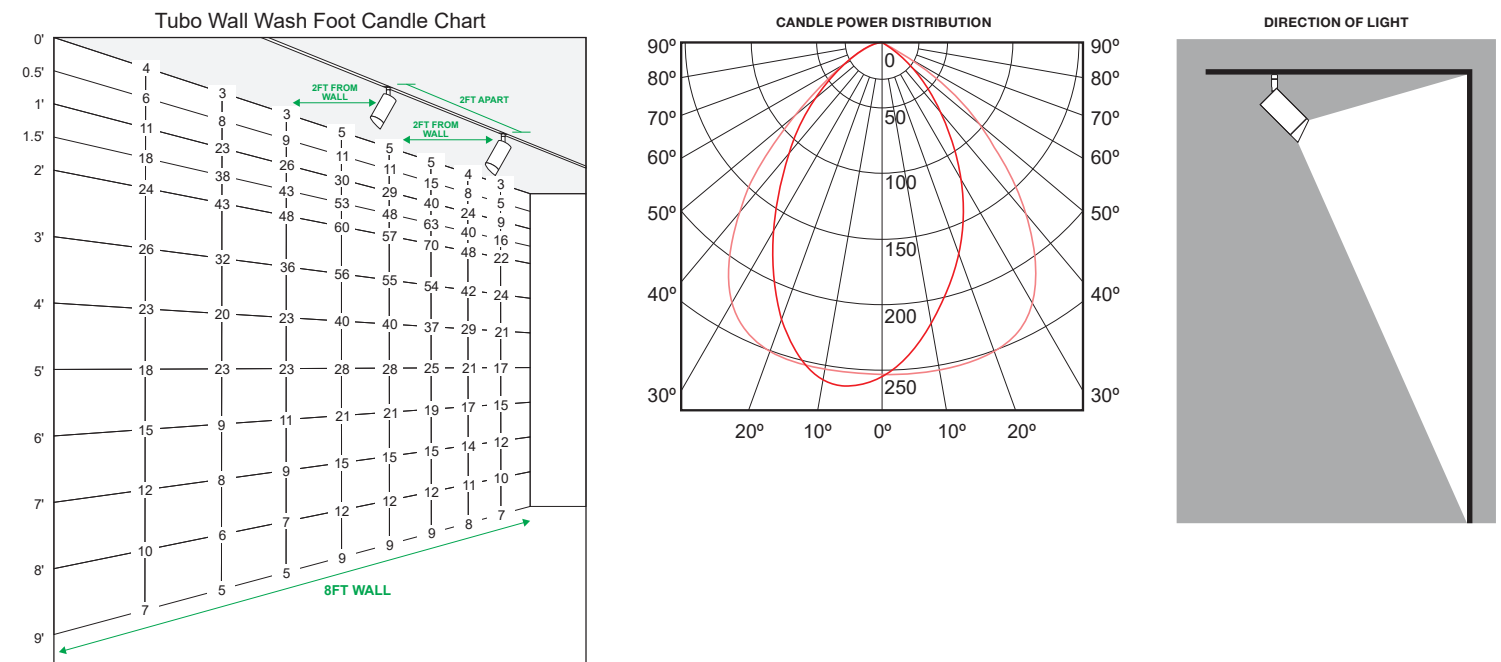


### 17 Watt



## TUBO WALL WASH RGBTW SMART TRACKHEAD Photometric Data at 3000K

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



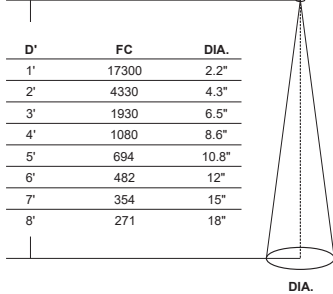
## TUBO LARGE Photometric Data at 3000K

**D** - Distance from fixture

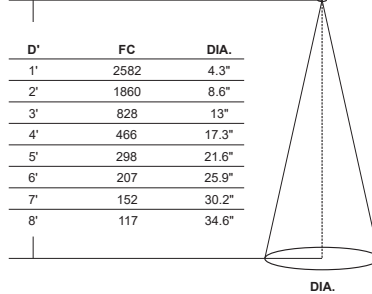
**FC** - Initial foot candles at the center of beam

**DIA** - Diameter

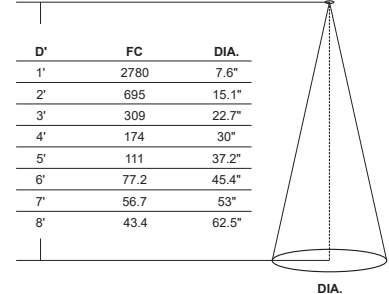
**NARROW SPOT BEAM ANGLE 10°**



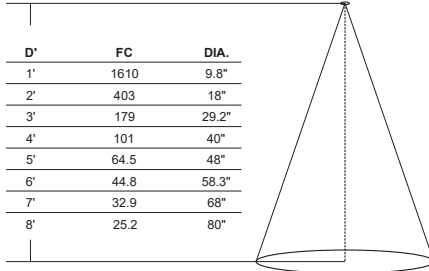
**SPOT BEAM ANGLE 20°**



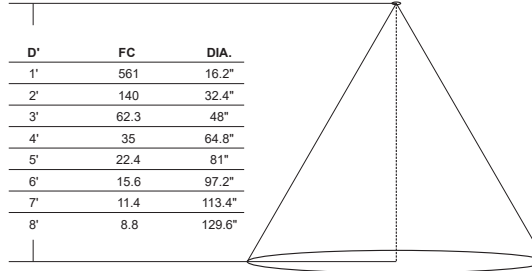
**NARROW FLOOD BEAM ANGLE 35°**



**FLOOD BEAM ANGLE 45°**



**WIDE FLOOD BEAM ANGLE 60°**



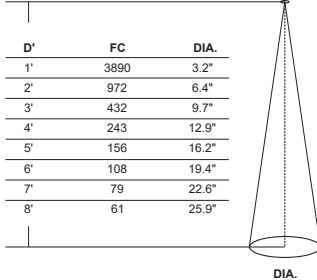
## TUBO SMALL Photometric Data at 3000K

**D** - Distance from fixture

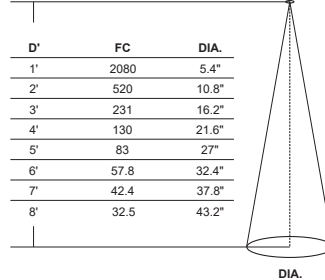
**FC** - Initial foot candles at the center of beam

**DIA** - Diameter

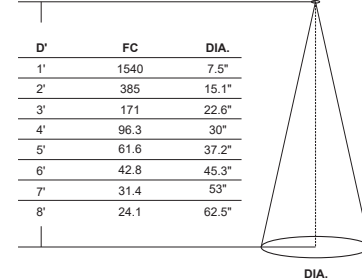
**NARROW SPOT BEAM ANGLE 15°**



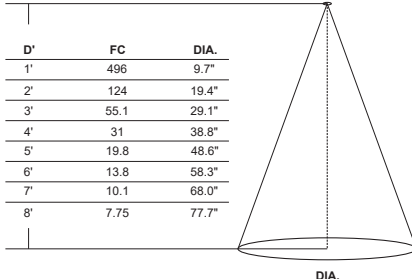
**SPOT BEAM ANGLE 25°**



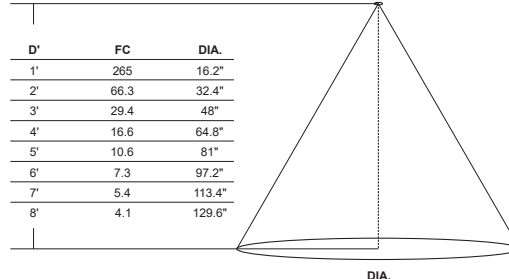
**NARROW FLOOD BEAM ANGLE 35°**



**FLOOD BEAM ANGLE 45°**



**WIDE FLOOD BEAM ANGLE 60°**



|         |              |      |
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| PROJECT | FIXTURE TYPE | DATE |
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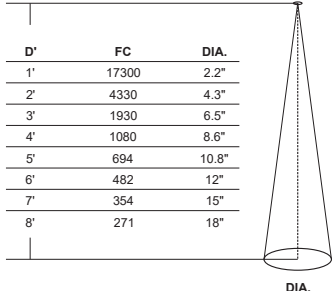
## TUBO LARGE DOWNLIGHT Photometric Data at 3000K

**D** - Distance from fixture

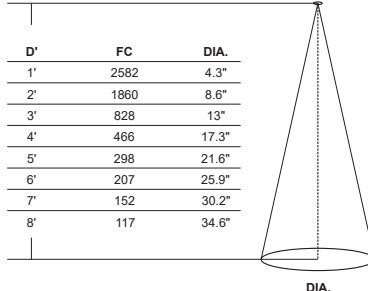
**FC** - Initial foot candles at the center of beam

**DIA** - Diameter

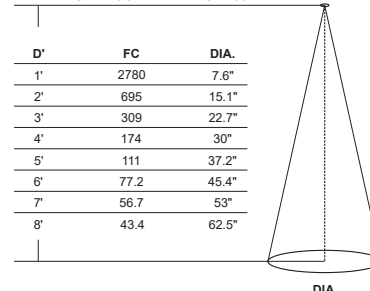
**NARROW SPOT BEAM ANGLE 10°**



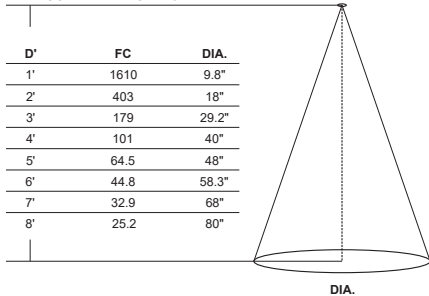
**SPOT BEAM ANGLE 20°**



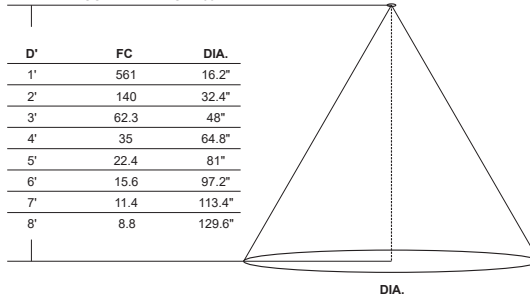
**NARROW FLOOD BEAM ANGLE 35°**



**FLOOD BEAM ANGLE 45°**



**WIDE FLOOD BEAM ANGLE 60°**



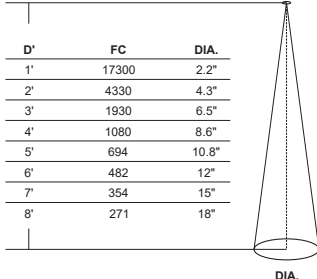
## TUBO SMALL DOWNLIGHT Photometric Data at 3000K

**D** - Distance from fixture

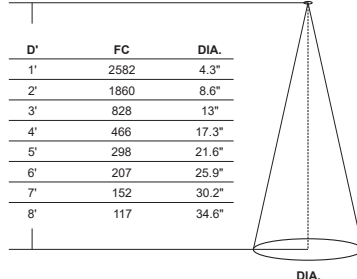
**FC** - Initial foot candles at the center of beam

**DIA** - Diameter

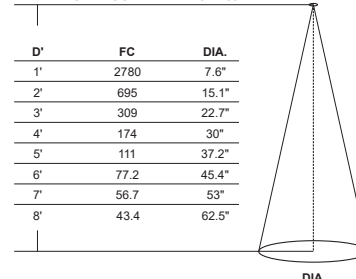
**NARROW SPOT BEAM ANGLE 10°**



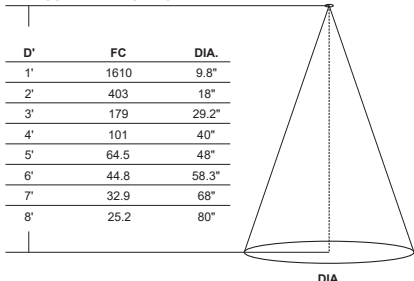
**SPOT BEAM ANGLE 20°**



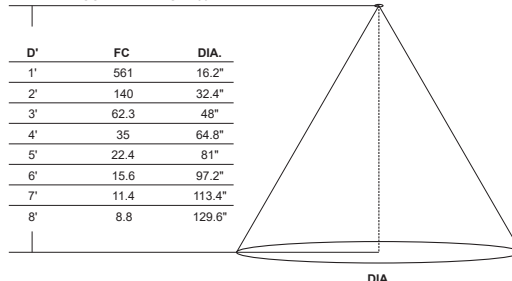
**NARROW FLOOD BEAM ANGLE 35°**



**FLOOD BEAM ANGLE 45°**



**WIDE FLOOD BEAM ANGLE 60°**

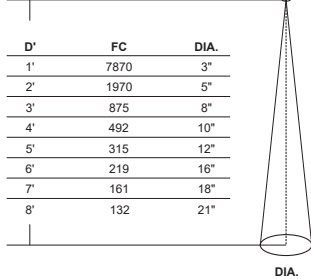


|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|

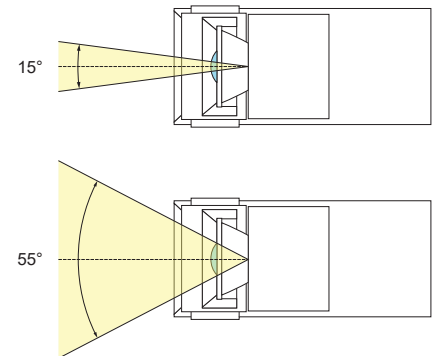
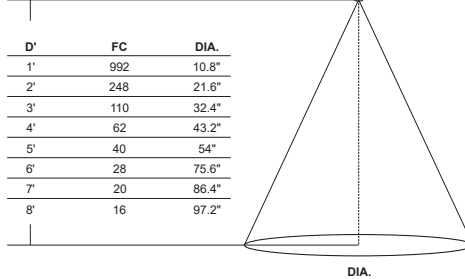
## ZOOM Z1 Photometric Data at 3000K

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

15° BEAM ANGLE



55° BEAM ANGLE

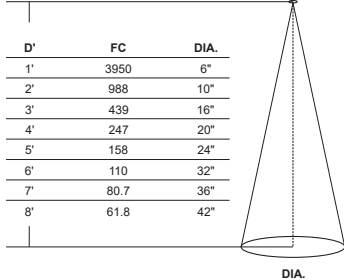


Z1: Adjustable between 15° and 55°

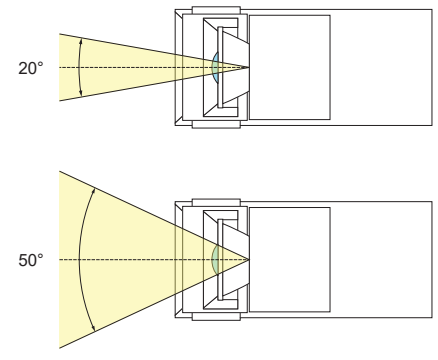
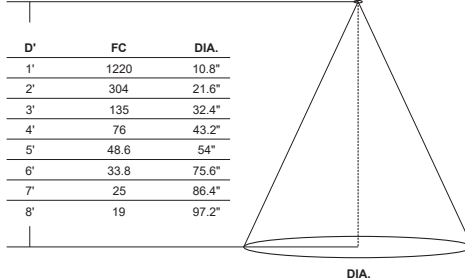
## ZOOM Z2 Photometric Data at 3000K

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

20° BEAM ANGLE



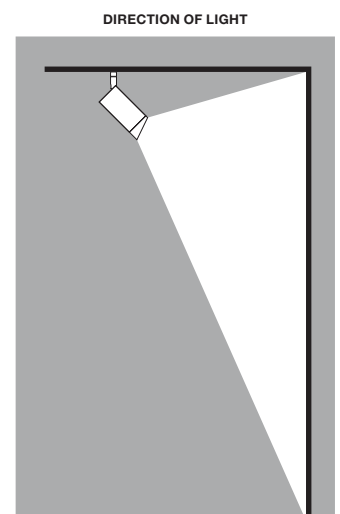
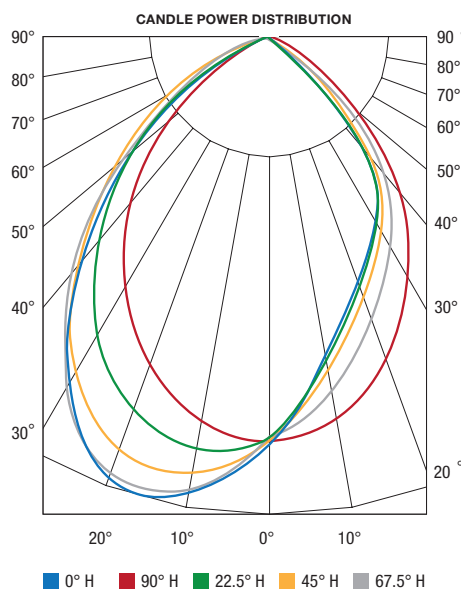
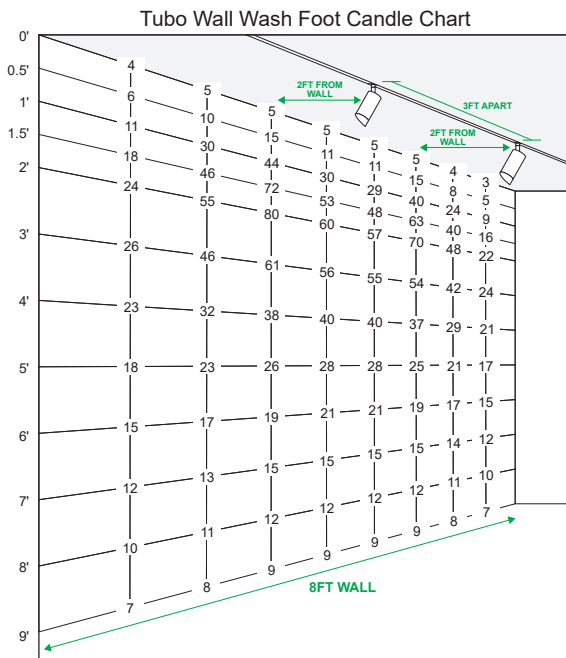
50° BEAM ANGLE



Z2: Adjustable between 20° and 50°

## TUBO WALL WASH Photometric Data at 3000K

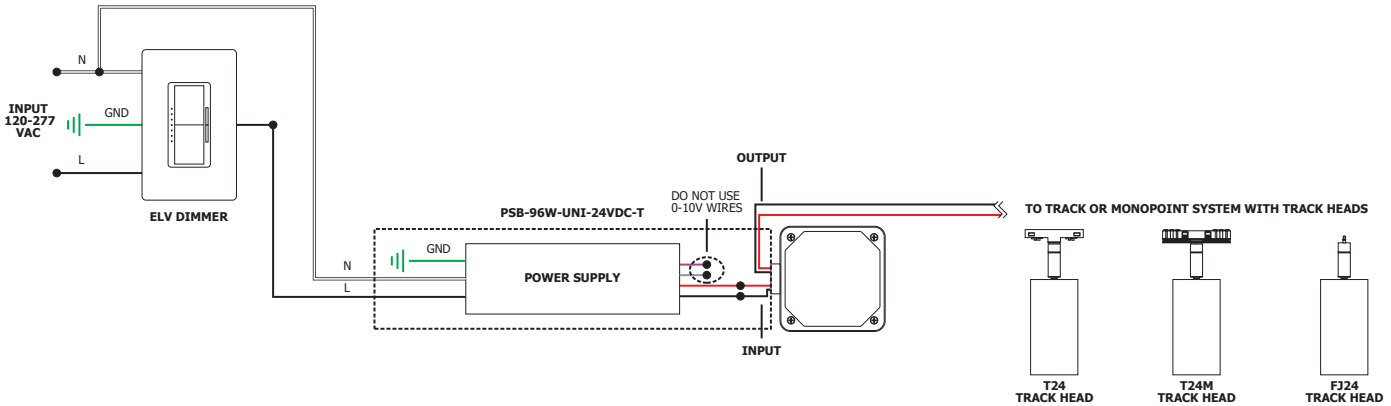
**D** - Distance from fixture  
**FC** - Initial foot candles at the center of beam  
**DIA** - Diameter



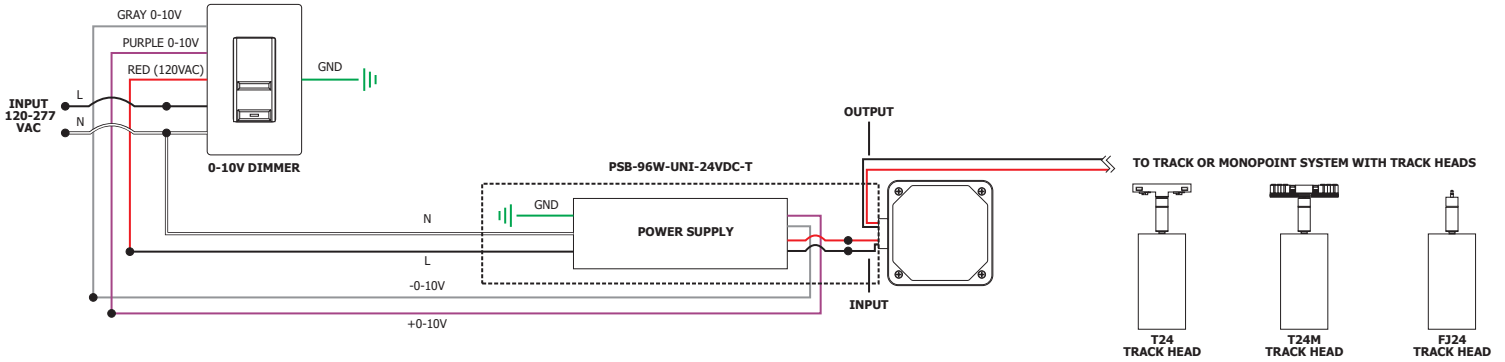
# UNIVERSAL POWER SUPPLIES WITH TRIM

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

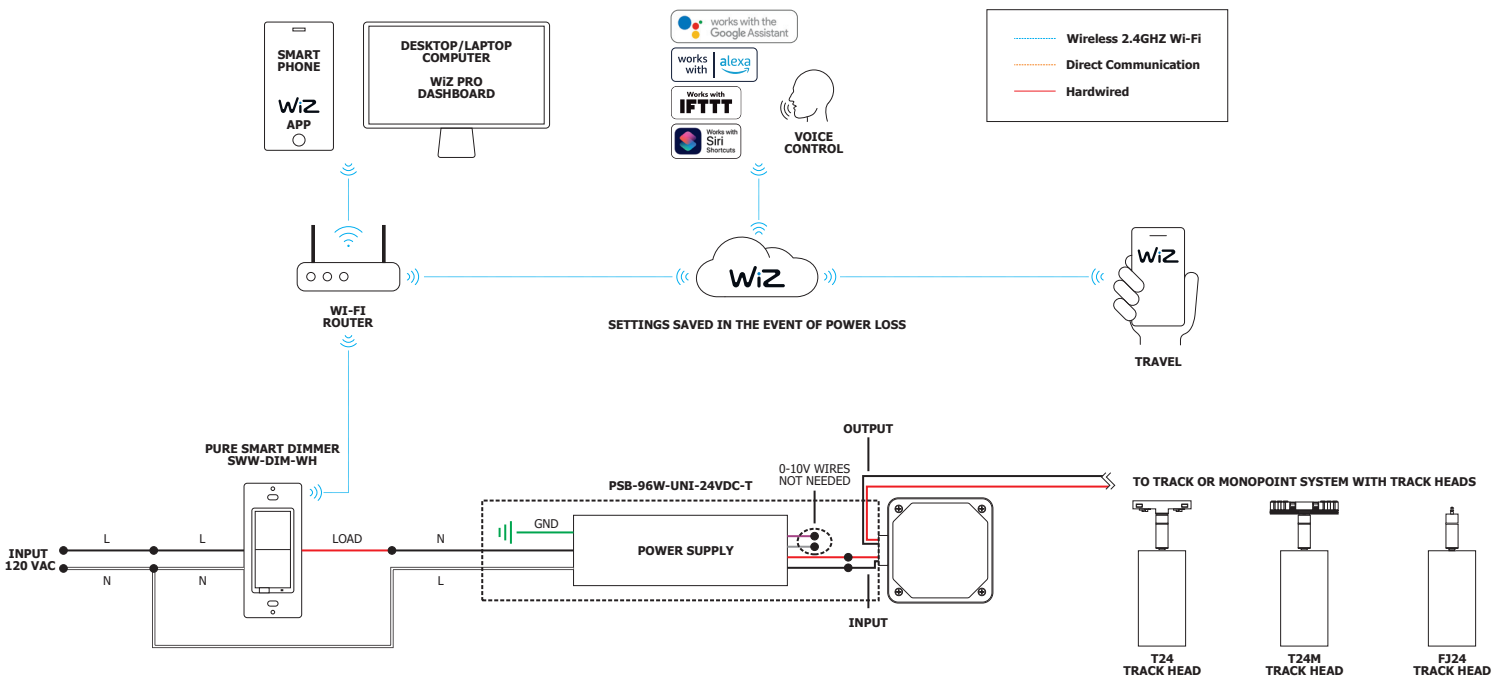
## ELV WIRING DIAGRAM



## 0-10V WIRING DIAGRAM



## SMART WIRING DIAGRAM & NETWORK TOPOGRAPHY



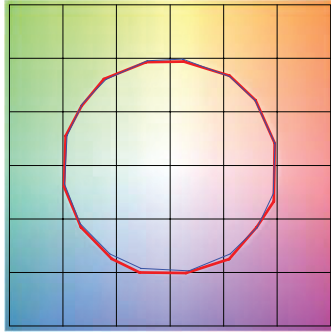
|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
|---------|--|--------------|--|------|--|

## TM30-15 DATA

### T24 TRACK HEADS

#### RADIANT LARGE FLOOD 3000K | Rf: 95 | Rg: 101.6

Color Vector Graphic

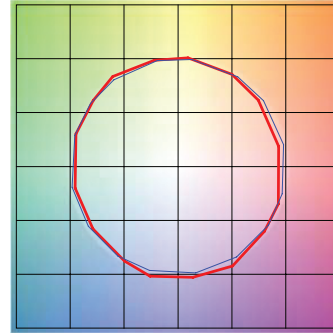


| GRAPHIC SHIFTS % |      |        |       |
|------------------|------|--------|-------|
| HUE BIN          | Rf   | CHROMA | HUE   |
| 1                | 96.8 | -0.3%  | 0.3%  |
| 2                | 97.8 | 0.3%   | -0.3% |
| 3                | 96.5 | 0.4%   | 0.3%  |
| 4                | 95.3 | -2.1%  | -1.4% |
| 5                | 95.9 | -1.1%  | 1.1%  |
| 6                | 96.4 | 1.4%   | 1.3%  |
| 7                | 93.9 | -0.5%  | 1.9%  |
| 8                | 97.3 | 1.3%   | 0.3%  |
| 9                | 95.9 | 1%     | 2.1%  |
| 10               | 94.0 | 1.3%   | 3.3%  |
| 11               | 92.7 | 2.9%   | 4.1%  |
| 12               | 92.4 | 3.8%   | -0.4% |
| 13               | 94.6 | 1.5%   | -3.2% |
| 14               | 93.0 | 3.3%   | -3.6% |
| 15               | 94.6 | -0.6%  | -0.1% |
| 16               | 90.1 | 1.9%   | -6.9% |

■ Test ■ Reference

#### RADIANT MEDIUM FLOOD 3000K | Rf: 89.5 | Rg: 100.8

Color Vector Graphic

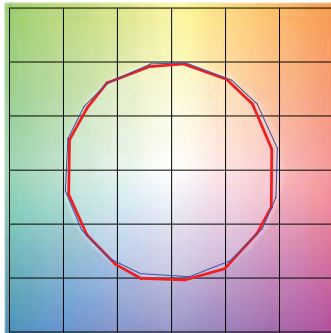


| GRAPHIC SHIFTS % |      |        |        |
|------------------|------|--------|--------|
| HUE BIN          | Rf   | CHROMA | HUE    |
| 1                | 90.0 | -4.9%  | -0.7%  |
| 2                | 90.7 | -3.6%  | 3.1%   |
| 3                | 87.2 | -1.1%  | 5.9%   |
| 4                | 92.7 | 1.0%   | 3.8%   |
| 5                | 93.8 | 0.9%   | 2.7%   |
| 6                | 94.2 | 3.0%   | -0.7%  |
| 7                | 92.7 | -0.5%  | -3.6%  |
| 8                | 96.6 | -0.8%  | -1.5%  |
| 9                | 94.4 | -2.5%  | 1.4%   |
| 10               | 89.7 | -2.3%  | 4.6%   |
| 11               | 87.3 | 0.5%   | 7.6%   |
| 12               | 89.9 | 5.2%   | 1.5%   |
| 13               | 92.0 | 3.6%   | -3.4%  |
| 14               | 87.6 | 4.7%   | -7.7%  |
| 15               | 88.2 | -0.0%  | -6.9%  |
| 16               | 85.8 | -1.8%  | -10.0% |

■ Test ■ Reference

#### TUBO LARGE FLOOD 3000K | Rf: 91.0 | Rg: 98.0

Color Vector Graphic

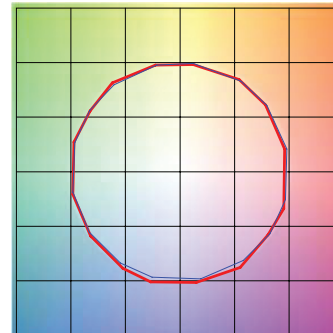


| GRAPHIC SHIFTS % |      |        |       |
|------------------|------|--------|-------|
| HUE BIN          | Rf   | CHROMA | HUE   |
| 1                | 89.2 | -5.2%  | 0.1%  |
| 2                | 91.3 | -3.6%  | 2.4%  |
| 3                | 90.2 | -1.8%  | 4.1%  |
| 4                | 94.7 | -1.3%  | 1.8%  |
| 5                | 93.8 | -2.3%  | 1.8%  |
| 6                | 96.8 | 0.4%   | 0.0%  |
| 7                | 93.1 | -3.2%  | -1.0% |
| 8                | 96.6 | -1.5%  | 0.7%  |
| 9                | 92.7 | -2.4%  | 3.7%  |
| 10               | 87.4 | -1.5%  | 6.3%  |
| 11               | 87.8 | 1.5%   | 8.1%  |
| 12               | 89.9 | 4.4%   | 1.0%  |
| 13               | 91.7 | 2.3%   | -4.8% |
| 14               | 87.4 | 3.3%   | -8.5% |
| 15               | 88.1 | -1.5%  | -6.3% |
| 16               | 85.4 | -2.6%  | -9.8% |

■ Test ■ Reference

#### TUBO SMALL FLOOD 3000K | Rf: 95.0 | Rg: 102.2

Color Vector Graphic



| GRAPHIC SHIFTS % |      |        |       |
|------------------|------|--------|-------|
| HUE BIN          | Rf   | CHROMA | HUE   |
| 1                | 96.6 | -1.1%  | -0.7% |
| 2                | 97.9 | -0.6%  | 0.4%  |
| 3                | 95.3 | 0.1%   | 2.0%  |
| 4                | 96.5 | 0.3%   | 1.4%  |
| 5                | 94.8 | 0.0%   | 2.0%  |
| 6                | 94.6 | 3.0%   | 0.9%  |
| 7                | 96.3 | 1.1%   | -0.9% |
| 8                | 96.6 | 1.5%   | -1.3% |
| 9                | 97.3 | 0.1%   | 0.4%  |
| 10               | 95.8 | -0.5%  | 1.8%  |
| 11               | 92.5 | 1.0%   | 4.4%  |
| 12               | 92.5 | 4.1%   | 0.5%  |
| 13               | 94.9 | 2.5%   | -2.0% |
| 14               | 92.5 | 4.0%   | -3.5% |
| 15               | 94.0 | 1.2%   | -3.0% |
| 16               | 90.1 | 1.7%   | -7.1% |

■ Test ■ Reference

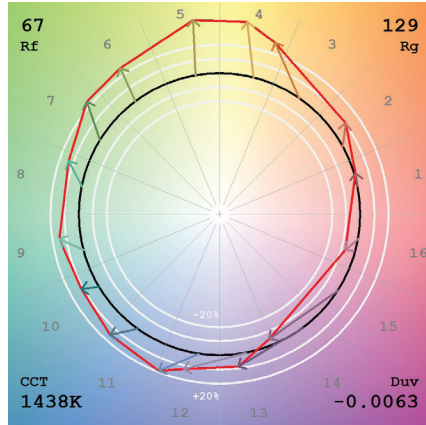
# SUSPENSION TM30 DATA

## 24VDC SURFACE MOUNT POWER, END FEED

**TM-30-15 DATA:** The data below is for Pure Smart TruColor™ RGBTW Tubo

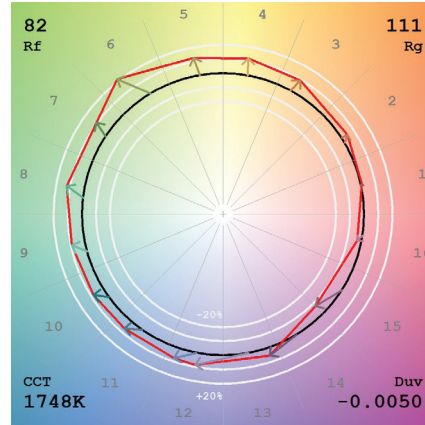
### 1500K (TruColor™ RGBTW)

View Angle: 2 Deg



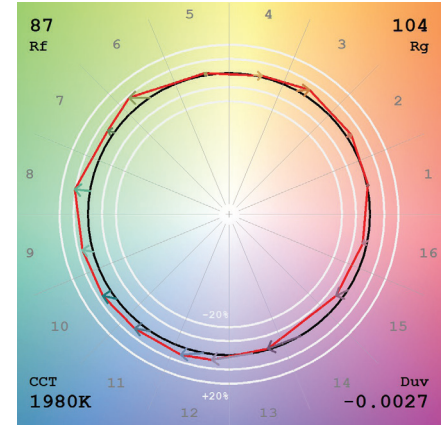
### 1800K (TruColor™ RGBTW)

View Angle: 2 Deg



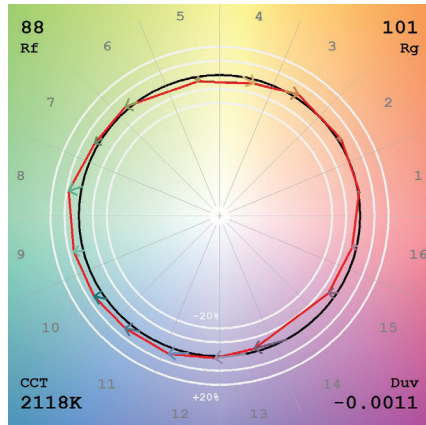
### 2000K (TruColor™ RGBTW)

View Angle: 2 Deg



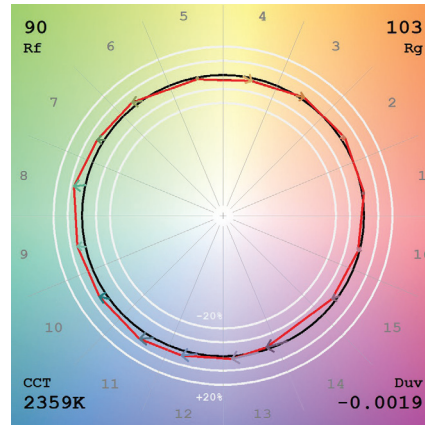
### 2200K (TruColor™ RGBTW)

View Angle: 2 Deg



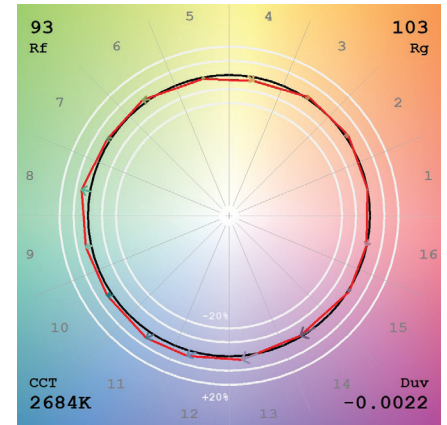
### 2400K (TruColor™ RGBTW)

View Angle: 2 Deg



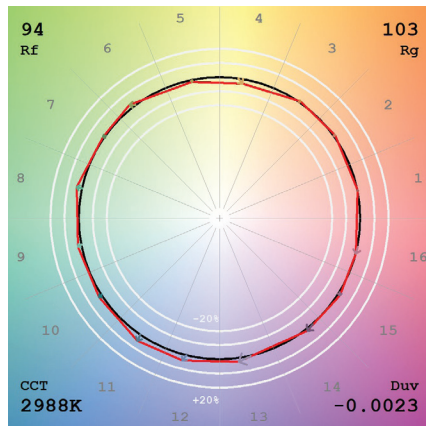
### 2700K (TruColor™ RGBTW)

View Angle: 2 Deg



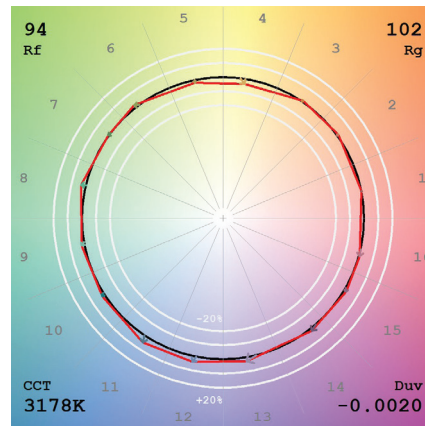
### 3000K (TruColor™ RGBTW)

View Angle: 2 Deg



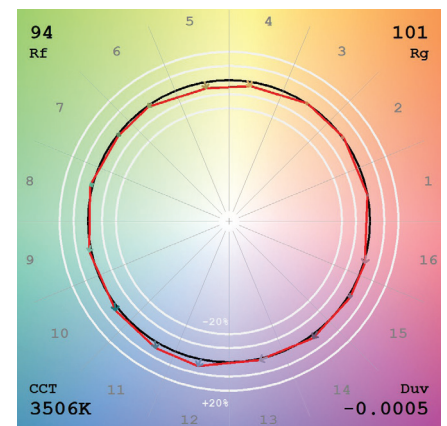
### 3200K (TruColor™ RGBTW)

View Angle: 2 Deg



### 3500K (TruColor™ RGBTW)

View Angle: 2 Deg



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

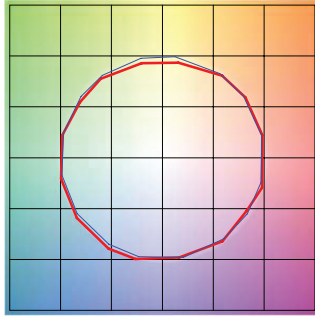
# SUSPENSION TM30 DATA

24VDC SURFACE MOUNT POWER, END FEED

**TM-30-15 DATA:** The data below is for Tubo Small and Tubo Small Downlight. 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.

## 2700K | Rf: 93.2 | Rg: 99.3

COLOR VECTOR GRAPHIC

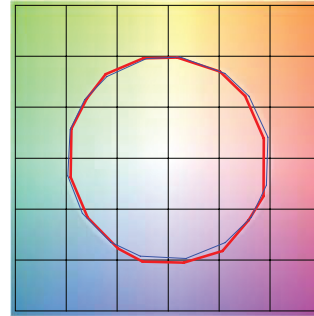


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 95.6 | 0.6%             | 0.8%  |
| 2       | 95.1 | 1.0%             | -2.0% |
| 3       | 93.4 | -0.4%            | -3.0% |
| 4       | 89.7 | -5.0%            | -4.3% |
| 5       | 93.3 | -5.1%            | 0.1%  |
| 6       | 94.2 | -2.0%            | 3.1%  |
| 7       | 90.6 | -2.3%            | 5.1%  |
| 8       | 93.7 | 1.0%             | 3.5%  |
| 9       | 92.5 | 1.6%             | 3.6%  |
| 10      | 93.1 | 2.6%             | 3.3%  |
| 11      | 93.9 | 3.6%             | 2.1%  |
| 12      | 92.9 | 2.8%             | -2.6% |
| 13      | 94.3 | -0.7%            | -3.9% |
| 14      | 94.6 | 1.2%             | -2.5% |
| 15      | 92.7 | -2.1%            | 2.2%  |
| 16      | 92.3 | 1.8%             | -4.8% |

## 3000K | Rf: 90.7 | Rg: 99.9

COLOR VECTOR GRAPHIC

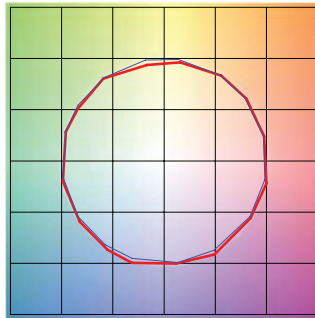


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
|         |      | CHROMA           | HUE    |
| 1       | 90.9 | -4.2%            | -0.5%  |
| 2       | 92.1 | -3.2%            | 2.2%   |
| 3       | 88.6 | -1.2%            | 5.0%   |
| 4       | 92.2 | -1.1%            | 2.7%   |
| 5       | 93.7 | 1.0%             | 3.1%   |
| 6       | 94.8 | 2.6%             | -0.1%  |
| 7       | 93.1 | -1.2%            | -2.2%  |
| 8       | 97.0 | -1.0%            | -1.2%  |
| 9       | 93.7 | -2.5%            | 2.0%   |
| 10      | 87.9 | -2.1%            | 6.6%   |
| 11      | 85.4 | 0.9%             | 9.7%   |
| 12      | 88.1 | 4.9%             | 3.3%   |
| 13      | 92.6 | 3.5%             | -2.7%  |
| 14      | 87.9 | 5.4%             | -6.7%  |
| 15      | 92.6 | -0.5%            | -3.8%  |
| 16      | 84.6 | -0.8%            | -11.0% |

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

COLOR VECTOR GRAPHIC

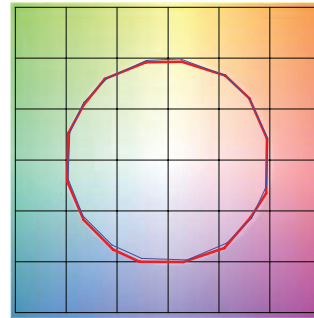


■ Test ■ Reference

| 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%             | 3.0%  |
| 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: 94.8 | Rg: 100.9

COLOR VECTOR GRAPHIC



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 96.4 | -0.7%            | 0.4%  |
| 2       | 97.7 | 0.1%             | -0.3% |
| 3       | 96.3 | 0.2%             | -0.0% |
| 4       | 94.6 | -2.6%            | -1.9% |
| 5       | 96.2 | -1.8%            | 0.8%  |
| 6       | 96.9 | 0.7%             | 1.5%  |
| 7       | 93.8 | -1.1%            | 2.4%  |
| 8       | 97.0 | 1.3%             | 1.0%  |
| 9       | 95.3 | 1.0%             | 2.4%  |
| 10      | 94.0 | 1.6%             | 3.2%  |
| 11      | 93.3 | 3.0%             | 3.5%  |
| 12      | 92.2 | 3.8%             | -1.3% |
| 13      | 90.6 | 2.5%             | -4.2% |
| 14      | 86.7 | 3.3%             | -4.5% |
| 15      | 90.9 | -2.4%            | -0.2% |
| 16      | 84.1 | -3.5%            | -6.9% |

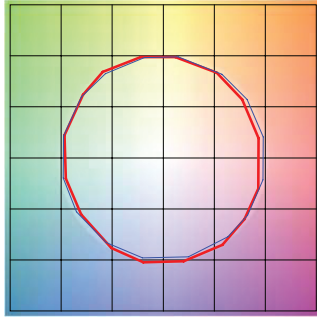
# SUSPENSION TM30 DATA

## 24VDC SURFACE MOUNT POWER, END FEED

**TM-30-15 DATA:** The data below is for Tubo Large and Tubo Large Downlight. 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 | Rg: 99.6

COLOR VECTOR GRAPHIC

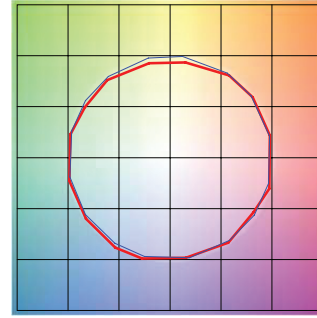


■ Test ■ Reference

| 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

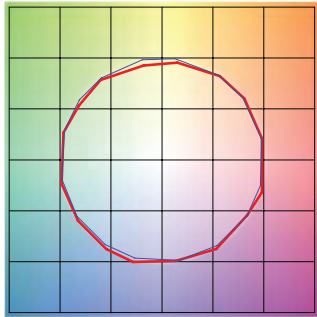


■ Test ■ Reference

| 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: 91 | Rg: 98

COLOR VECTOR GRAPHIC

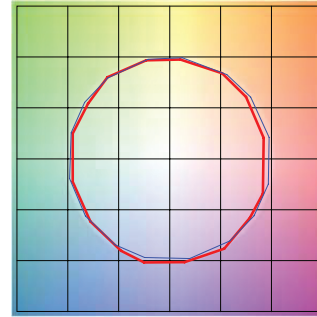


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 96.4 | -0.2%            | 0.4%  |
| 2       | 97.7 | 0.3%             | -0.5% |
| 3       | 96.5 | 0.2%             | -0.0% |
| 4       | 95.5 | -2.0%            | -1.3% |
| 5       | 93.8 | -3.7%            | 0.6%  |
| 6       | 96.9 | 0.6%             | 1.4%  |
| 7       | 93.3 | -1.4%            | 2.6%  |
| 8       | 97.6 | 0.7%             | 0.9%  |
| 9       | 94.4 | 0.7%             | 3.4%  |
| 10      | 92.1 | 1.1%             | 4.2%  |
| 11      | 91.6 | 2.7%             | 4.5%  |
| 12      | 92.0 | 4.7%             | -0.4% |
| 13      | 95.2 | 1.2%             | -2.7% |
| 14      | 93.1 | 3.4%             | -3.2% |
| 15      | 92.5 | 0.3%             | -1.3% |
| 16      | 90.1 | 2.4%             | -6.9% |

**3000D** | Rf: 94.5 | Rg: 100.3

COLOR VECTOR GRAPHIC

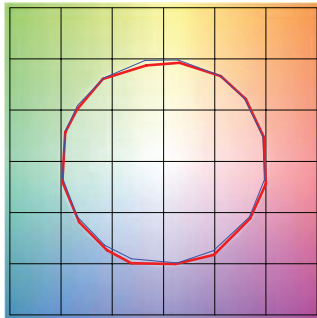


■ Test ■ Reference

| 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%             | 3.0%  |
| 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% |

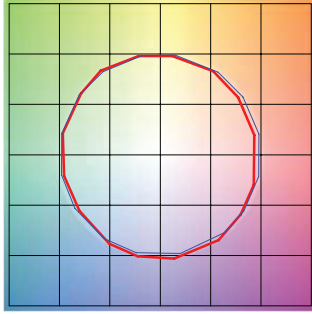
# SUSPENSION TM30 DATA

## 24VDC SURFACE MOUNT POWER, END FEED

**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: 91.2 | Rg: 99

COLOR VECTOR GRAPHIC

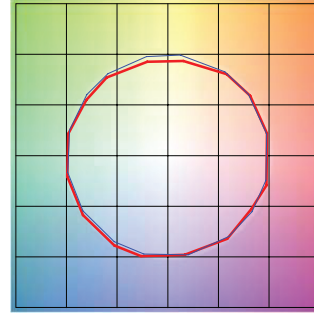


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 90.0 | -4.7%            | -0.1% |
| 2       | 90.7 | -4.1%            | 2.5%  |
| 3       | 89.2 | -1.9%            | 4.6%  |
| 4       | 93.5 | -1.5%            | 2.2%  |
| 5       | 94.8 | 0.3%             | 3.2%  |
| 6       | 95.3 | 2.1%             | 1.2%  |
| 7       | 94.8 | -0.8%            | -2.1% |
| 8       | 97.4 | -1.1%            | -0.6% |
| 9       | 94.2 | -2.4%            | 1.5%  |
| 10      | 90.0 | -2.4%            | 4.8%  |
| 11      | 88.6 | 1.6%             | 7.1%  |
| 12      | 89.5 | 3.1%             | 2.2%  |
| 13      | 90.3 | 3.8%             | -6.9% |
| 14      | 84.8 | 3.1%             | -8.8% |
| 15      | 92.4 | -0.8%            | -4.4% |
| 16      | 85.6 | -3.0%            | -9.1% |

**2700D** | Rf: 93.4 | Rg: 98.8

COLOR VECTOR GRAPHIC

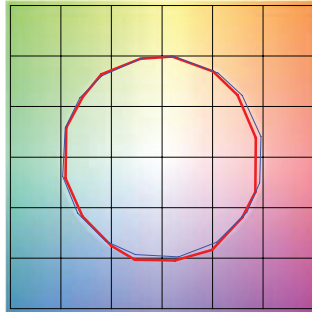


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 95.9 | 0.3%             | 0.7%  |
| 2       | 95.5 | 0.6%             | -2.0% |
| 3       | 93.5 | -0.8%            | -2.8% |
| 4       | 89.9 | -5.2%            | -4.0% |
| 5       | 93.1 | -5.2%            | 0.3%  |
| 6       | 93.8 | -2.3%            | 3.1%  |
| 7       | 90.6 | -2.6%            | 5.0%  |
| 8       | 93.5 | 0.7%             | 3.7%  |
| 9       | 92.9 | 1.2%             | 3.6%  |
| 10      | 93.4 | 2.1%             | 3.5%  |
| 11      | 94.2 | 3.1%             | 2.4%  |
| 12      | 93.5 | 2.6%             | -2.2% |
| 13      | 94.5 | -0.8%            | -3.7% |
| 14      | 94.7 | 1.1%             | -2.5% |
| 15      | 92.8 | -2.2%            | -1.9% |
| 16      | 92.4 | 1.4%             | -4.8% |

**3000K** | Rf: 82.3 | Rg: 96.9

COLOR VECTOR GRAPHIC

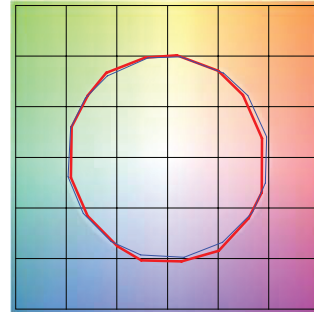


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 89.5 | -5.2%            | -0.3% |
| 2       | 91.0 | -3.7%            | 2.7%  |
| 3       | 88.8 | -1.6%            | 4.9%  |
| 4       | 94.2 | -0.2%            | 2.9%  |
| 5       | 94.1 | -0.5%            | 2.4%  |
| 6       | 95.9 | 1.6%             | -0.3% |
| 7       | 93.5 | -1.8%            | -2.4% |
| 8       | 97.3 | -1.1%            | -0.5% |
| 9       | 94.0 | -2.5%            | 2.4%  |
| 10      | 88.7 | -2.0%            | 5.4%  |
| 11      | 87.9 | 0.7%             | 7.4%  |
| 12      | 90.3 | 5.0%             | 0.5%  |
| 13      | 92.0 | 2.9%             | -4.2% |
| 14      | 87.6 | 3.8%             | -8.1% |
| 15      | 88.3 | -0.8%            | -6.7% |
| 16      | 85.8 | -2.5%            | -9.7% |

**3000D** | Rf: 90.8 | Rg: 100.1

COLOR VECTOR GRAPHIC

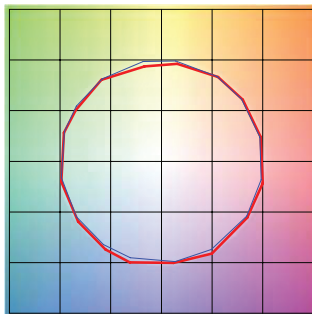


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
|         |      | CHROMA           | HUE    |
| 1       | 90.0 | -4.9%            | -0.7%  |
| 2       | 90.7 | -3.6%            | 3.1%   |
| 3       | 87.2 | -1.1%            | 5.9%   |
| 4       | 92.7 | 1.0%             | 3.8%   |
| 5       | 93.8 | 0.9%             | 2.7%   |
| 6       | 94.2 | 3.0%             | -0.7%  |
| 7       | 92.7 | -0.5%            | -3.6%  |
| 8       | 96.6 | -0.8%            | -1.5%  |
| 9       | 94.4 | -2.5%            | 1.4%   |
| 10      | 89.7 | -2.3%            | 4.6%   |
| 11      | 87.3 | 0.5%             | 7.6%   |
| 12      | 89.9 | 5.2%             | 1.5%   |
| 13      | 92.0 | 3.6%             | -3.4%  |
| 14      | 87.6 | 4.7%             | -7.7%  |
| 15      | 88.2 | -0.0%            | -6.9%  |
| 16      | 85.8 | -1.8%            | -10.0% |

**3500K** | Rf: 93.9 | Rg: 101

COLOR VECTOR GRAPHIC



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 95.6 | 0.8%             | 0.3%  |
| 2       | 96.5 | 0.9%             | -1.3% |
| 3       | 95.9 | 0.2%             | -1.1% |
| 4       | 94.3 | -2.5%            | -2.0% |
| 5       | 93.1 | -4.8%            | -0.2% |
| 6       | 97.1 | -0.3%            | 1.4%  |
| 7       | 93.7 | -1.6%            | 3.3%  |
| 8       | 97.3 | 0.3%             | 1.3%  |
| 9       | 93.4 | 0.8%             | 4.1%  |
| 10      | 91.5 | 1.4%             | 5.1%  |
| 11      | 90.7 | 2.8%             | 4.5%  |
| 12      | 92.6 | 4.4%             | 0.5%  |
| 13      | 96.4 | 0.7%             | -1.8% |
| 14      | 94.0 | 3.7%             | -1.7% |
| 15      | 92.4 | 1.3%             | -0.8% |
| 16      | 91.4 | 2.4%             | -3.3% |

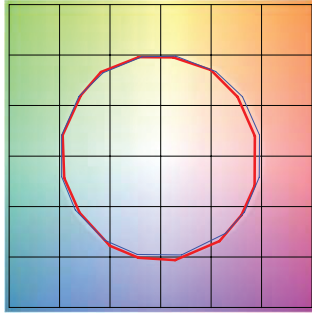
# SUSPENSION TM30 DATA

## 24VDC SURFACE MOUNT POWER, END FEED

**TM-30-15 DATA:** The data below is for Radiant Medium. 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: 91.3 | Rg: 99.1

COLOR VECTOR GRAPHIC

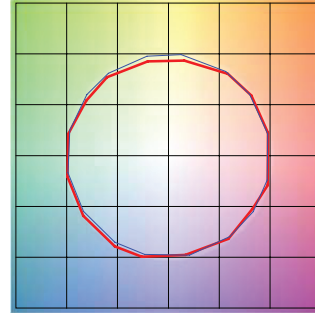


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 90.1 | -4.6%            | 0.0%  |
| 2       | 91.2 | -4.0%            | 2.4%  |
| 3       | 88.7 | -1.6%            | 4.7%  |
| 4       | 93.6 | -1.7%            | 2.0%  |
| 5       | 94.8 | 0.2%             | 3.1%  |
| 6       | 95.3 | 2.0%             | 1.3%  |
| 7       | 94.9 | -0.9%            | -1.9% |
| 8       | 97.5 | -1.0%            | -0.4% |
| 9       | 94.2 | -2.2%            | 1.7%  |
| 10      | 90.1 | -2.2%            | 4.8%  |
| 11      | 88.8 | 1.9%             | 6.9%  |
| 12      | 89.7 | 3.2%             | 1.8%  |
| 13      | 90.0 | 3.8%             | -7.3% |
| 14      | 84.7 | 3.0%             | -8.9% |
| 15      | 92.5 | -1.0%            | -4.2% |
| 16      | 85.7 | -3.1%            | -9.0% |

**2700K** | Rf: 99.1 | Rg: 98.9

COLOR VECTOR GRAPHIC

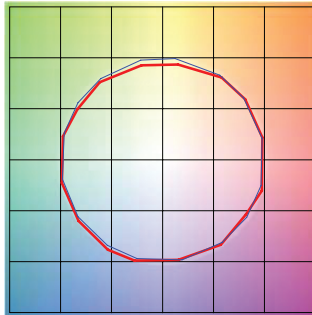


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 95.7 | 0.4%             | 0.8%  |
| 2       | 95.3 | 0.7%             | -2.0% |
| 3       | 93.3 | -0.7%            | -3.0% |
| 4       | 89.5 | -5.3%            | -4.2% |
| 5       | 93.0 | -5.4%            | 0.2%  |
| 6       | 93.6 | -2.4%            | 3.2%  |
| 7       | 90.2 | -2.6%            | 5.2%  |
| 8       | 93.3 | 0.8%             | 3.8%  |
| 9       | 92.5 | 1.4%             | 3.7%  |
| 10      | 93.2 | 2.4%             | 3.5%  |
| 11      | 94.0 | 3.3%             | 2.2%  |
| 12      | 93.1 | 2.7%             | -2.5% |
| 13      | 94.3 | -0.9%            | -3.9% |
| 14      | 94.7 | 1.0%             | -2.5% |
| 15      | 92.6 | -2.3%            | -2.1% |
| 16      | 92.4 | 1.5%             | -4.7% |

**3000K** | Rf: 90.8 | Rg: 99

COLOR VECTOR GRAPHIC

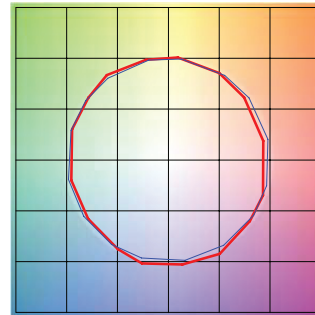


■ Test ■ Reference

| 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% |

**3000D** | Rf: 90.8 | Rg: 100.1

COLOR VECTOR GRAPHIC

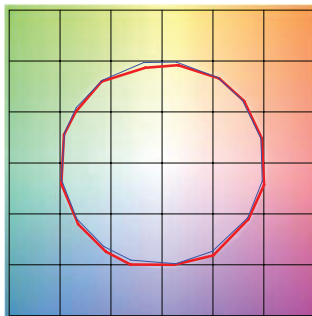


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
|         |      | CHROMA           | HUE    |
| 1       | 90.0 | -4.9%            | -0.7%  |
| 2       | 90.7 | -3.6%            | 3.1%   |
| 3       | 87.2 | -1.1%            | 5.9%   |
| 4       | 92.7 | 1.0%             | 3.8%   |
| 5       | 93.8 | 0.9%             | 2.7%   |
| 6       | 94.2 | 3.0%             | -0.7%  |
| 7       | 92.7 | -0.5%            | -3.6%  |
| 8       | 96.6 | -0.8%            | -1.5%  |
| 9       | 94.4 | 2.5%             | 1.4%   |
| 10      | 89.7 | -2.3%            | 4.6%   |
| 11      | 87.3 | 0.5%             | 7.6%   |
| 12      | 89.9 | 5.2%             | -1.5%  |
| 13      | 92.0 | 3.6%             | -3.4%  |
| 14      | 87.6 | 4.7%             | -7.7%  |
| 15      | 88.2 | -0.0%            | -6.9%  |
| 16      | 85.8 | -1.8%            | -10.0% |

**3500K** | Rf: 93.6 | Rg: 100

COLOR VECTOR GRAPHIC



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 95.3 | 0.9%             | 0.4%  |
| 2       | 96.1 | 1.0%             | -1.4% |
| 3       | 95.5 | 0.2%             | -1.4% |
| 4       | 93.6 | -2.7%            | -2.4% |
| 5       | 92.7 | -5.3%            | -0.4% |
| 6       | 97.0 | -0.6%            | 1.5%  |
| 7       | 93.1 | -1.9%            | 3.7%  |
| 8       | 96.9 | 0.2%             | 1.6%  |
| 9       | 92.8 | 1.0%             | 4.5%  |
| 10      | 91.1 | 1.7%             | 5.3%  |
| 11      | 90.7 | 3.0%             | 4.3%  |
| 12      | 92.5 | 4.5%             | 0.3%  |
| 13      | 96.3 | 0.5%             | -2.0% |
| 14      | 93.9 | 3.5%             | -1.7% |
| 15      | 92.2 | 1.2%             | -0.6% |
| 16      | 91.3 | 2.4%             | -3.1% |

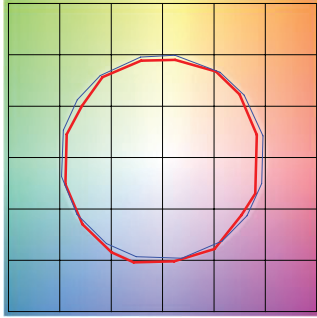
# SUSPENSION TM30 DATA

## 24VDC SURFACE MOUNT POWER, END FEED

**TM-30-15 DATA:** The data below is for SS5C bare LED Soft Strips. Consistent color temperatures throughout a single strip and among multiple strips is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

**2700K** | Rf: 87.7 | Rg: 96.1

Color Vector Graphic

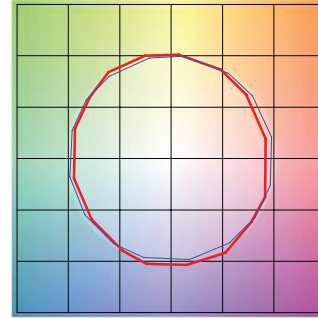


■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | CHROMA           | HUE    |
| 1       | 86.4 | -5.6%            | 2.3%   |
| 2       | 89.7 | -3.3%            | 3.1%   |
| 3       | 90.5 | -1.5%            | 3.8%   |
| 4       | 90.0 | -4.3%            | 1.1%   |
| 5       | 92.9 | -3.7%            | 0.2%   |
| 6       | 93.5 | -2.5%            | -0.8%  |
| 7       | 86.3 | -7.2%            | 2.5%   |
| 8       | 90.7 | -4.0%            | 3.2%   |
| 9       | 85.2 | -2.4%            | 8.1%   |
| 10      | 81.7 | 0.9%             | 10.8%  |
| 11      | 85.4 | 4.5%             | 8.9%   |
| 12      | 88.7 | 5.7%             | -1.4%  |
| 13      | 88.3 | 1.3%             | -7.9%  |
| 14      | 85.1 | 2.4%             | -10.4% |
| 15      | 88.1 | -4.8%            | -2.7%  |
| 16      | 81.7 | -4.3%            | -10.9% |

**3000K** | Rf: 88.1 | Rg: 99.7

Color Vector Graphic

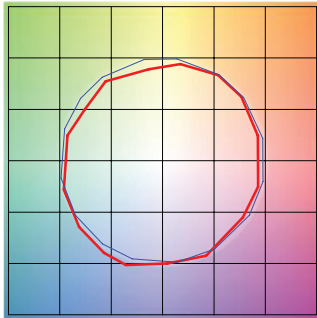


■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | CHROMA           | HUE    |
| 1       | 87.7 | -5.9%            | -0.3%  |
| 2       | 87.9 | -4.4%            | 4.3%   |
| 3       | 82.9 | -1.2%            | 7.9%   |
| 4       | 89.9 | 0.6%             | 4.7%   |
| 5       | 92.7 | 3.0%             | 3.5%   |
| 6       | 92.7 | 3.6%             | -1.7%  |
| 7       | 90.8 | -1.3%            | -4.4%  |
| 8       | 93.7 | -2.5%            | -2.2%  |
| 9       | 91.7 | -3.7%            | 2.3%   |
| 10      | 85.5 | -2.8%            | 7.8%   |
| 11      | 83.3 | 0.7%             | 11.0%  |
| 12      | 86.4 | 5.5%             | 3.8%   |
| 13      | 90.6 | 4.6%             | -3.6%  |
| 14      | 85.6 | 5.9%             | -8.4%  |
| 15      | 89.5 | -0.6%            | -5.7%  |
| 16      | 82.6 | -2.7%            | -12.0% |

**3500K** | Rf: 86.1 | Rg: 95.5

Color Vector Graphic

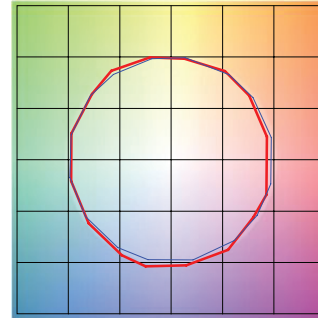


■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | CHROMA           | HUE    |
| 1       | 91.7 | -1.4%            | 1.8%   |
| 2       | 94.9 | -0.7%            | 0.4%   |
| 3       | 87.9 | -4.5%            | -4.1%  |
| 4       | 85.9 | -10.3%           | -2.7%  |
| 5       | 89.8 | -5.2%            | -0.4%  |
| 6       | 79.6 | -9.5%            | 6.5%   |
| 7       | 87.6 | -4.0%            | 5.7%   |
| 8       | 81.4 | -0.5%            | 11.8%  |
| 9       | 78.3 | 3.3%             | 11.4%  |
| 10      | 85.7 | 6.3%             | 6.1%   |
| 11      | 86.3 | 7.1%             | -4.6%  |
| 12      | 86.1 | -0.7%            | -9.6%  |
| 13      | 85.1 | 0.8%             | -10.4% |
| 14      | 83.4 | -4.1%            | -5.3%  |
| 15      | 82.5 | -3.6%            | -5.7%  |
| 16      | 82.5 | -3.6%            | -5.7%  |

**3000D** | Rf: 89.8 | Rg: 101.4

Color Vector Graphic



■ Test ■ Reference

|         |      | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
| HUE BIN | Rf   | 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% |