

# CIRRUS SUSPENSION R1

## DYNAMIC/TUNABLE WHITE DOWNLIGHT, CENTER FEED

DESIGNED BY GREGORY KAY | ASSEMBLED IN AMERICA

REV 06.16.20



### DESCRIPTION

Cirrus R1 Suspension Downlight Center feed with Dynamic/Tunable White is a linear LED suspension that creates a clean beam of light through a Diffused White Rectangular Lens with a 140° beam spread. Using the latest in LED Technology Dynamic/Tunable White, you have full control over the color temperature from 2000K (Sunset) to 4000K (Cool White) and the ability to regulate any level of brightness independently. Use with two dimmers (one for 2000K and one for 4000K) or, our proprietary Tunable White Controller for fast and accurate adjustment with three pre-set scenes (Ordered separately). The Cirrus R1 Dynamic/ Tunable White Suspension is available in increments from 36"-120" and various Metal Finishes. Order **CSD\_P** with power supplies included in the Canopy or **CSD\_R** remote power supplies sold separately. Optional Fast Jack 12V Port Canopy (**C1**) for mounting Fast Jack fixtures to easily accommodate a variety of moods and tasks. Includes a 5-year pro-rated warranty. For **custom lengths** and quotes, email our design team [design@PureEdgeLighting.com](mailto:design@PureEdgeLighting.com).

### FIXTURE SPECIFICATIONS:

Tunable White: 2000K-4000K. At 2700K, 236 lumens per foot at 5W or 442 lumens per foot at 10W.  
 Average LED life: 60,000 hrs @ normal usage

### ELECTRICAL:

**CSR1P:** Power Supplies in Canopy  
 Power: 120VAC-277VAC 2x Uni-Drivers. Optional Fast Jack Power Supply; 12VAC electronic low voltage LED power supply

**CSR1R:** Remote Power Supply Options  
 Power: 24VDC Class 2 wiring, 2x UNIVERSAL Remote Power Supplies (Sold separately, pgs 6-8). Optional Fast Jack Power Supply; 12VAC electronic low voltage LED power supply.

Dimming\*: Universal Dimming (TRIAC, ELV, 0-10V), Lutron Hi-Lume®, DALI or DMX pgs 6-8

Power Consumed: 5 or 10 watts per foot  
 \*Dynamic/Tunable White- Requires two dimmers (one for 2000K and one for 4000K) or use our proprietary Tunable White Controller CDMX-1 (Dimmers not Included)

### APPLICATIONS

Indoor Damp Location - Ideal applications in Residential, Commercial, Retail and Hospitality environments

### LENS:

Diffused White R1 Rectangular Lens, 140° Beam Spread

### LUMEN PERFORMANCE:

|                                |               |                |
|--------------------------------|---------------|----------------|
| Tunable White ( <b>2K4K</b> ): | 5 Watts @ 27K | 10 Watts @ 27K |
| Lumen Output:                  | 236 Lm/Ft     | 442 Lm/Ft      |
| Efficiency:                    | 51 Lm/Ft      | 44 Lm/Ft       |
| CRI:                           | 91+           | 91+            |
| Beam Angle:                    | 140 degrees   |                |

### PHYSICAL ATTRIBUTES:

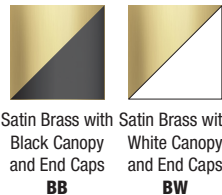
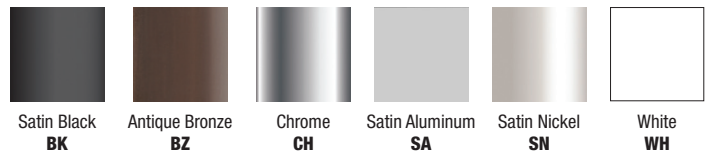
- Diffused White R1 Rectangular Lens, 140° Beam Spread
- Includes a 12" Rectangular Canopy used for sizes 36"- 96", and a 26" Rectangular Canopy is used for sizes 99"-120"
- Optional Fast Jack 12V Port (**C1**) for mounting Fast Jack 12V fixtures
- Includes adjustable 12' Coaxial Cables (additional Aircraft Cables included for support when fixture exceeds 72")

### APPROVALS:

Class 2 Wiring up to 100 watts, Damp Location Suitable, ETL listed. Title 24 with Universal Power Supply, 0-10V or Lutron power supplies, Made in America

**WARRANTY:** 5 Year Pro-Rated

### CHANNEL FINISHES



| System   | Wattage Per Foot    | Canopy                                    | Nominal Size (Inches)   | Color Temperature                     | Finish   |
|--|---------------------|---|---|---------------------------------------|--|
| <b>CSR1P</b>   | <b>5W</b>           | <b>C</b>                                  | <b>120</b>  | <b>2K4K</b>                           | <b>SN</b>  |
| <b>CSR1P</b> Cirrus Suspension Rectangular 1 Lens, with Power  | <b>5W</b> 5 Watts   | <b>C</b> Center Feed                      | <b>36-120</b> Order in various increments from 36"-120" (Maximum shipping length). Maximum shipping length for Chrome is 84". | <b>2K4K</b> 2000K-4000K Tunable White | <b>BK</b> Satin Black                                |
| <b>CSR1R</b> Cirrus Suspension Rectangular 1 Lens, Remote Power, Sold Separately, page 6, Class 2 wiring | <b>10W</b> 10 Watts | <b>C1</b> Center Feed with Fast Jack Port | *See length chart on pg 2 for exact dimensions  |                                       | <b>BZ</b> Antique Bronze                             |
|  |                     |   |   |                                       | <b>CH</b> Chrome                                     |
|  |                     |   |   |                                       | <b>SA</b> Satin Aluminum                             |
|  |                     |   |   |                                       | <b>SN</b> Satin Nickel                               |
|  |                     |   |   |                                       | <b>WH</b> White                                      |
|  |                     |   |   |                                       | <b>BB</b> Satin Brass with Black Canopy and End Caps |
|  |                     |   |   |                                       | <b>BW</b> Satin Brass with White Canopy and End Caps |

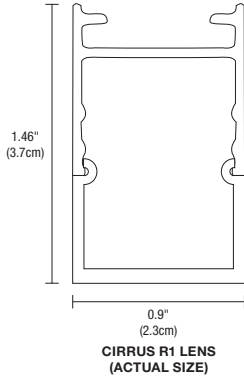
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| PROJECT | FIXTURE TYPE | DATE |
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# CIRRUS SUSPENSION R1

DYNAMIC/TUNABLE WHITE DOWNLIGHT, CENTER FEED

**NOMINAL LAMP DATA:** Lamp data for the Cirrus Suspension R1

| WATTS PER FOOT          | CSR1P        |      |      |      |      |      |                |      |      |      |      |      |
|-------------------------|--------------|------|------|------|------|------|----------------|------|------|------|------|------|
|                         | 5w (5 watts) |      |      |      |      |      | 10w (10 watts) |      |      |      |      |      |
| COLOR TEMPERATURE       | 20K          | 24K  | 27K  | 30K  | 35K  | 40K  | 20K            | 24K  | 27K  | 30K  | 35K  | 40K  |
| LUMENS PER FOOT (lm/ft) | 221          | 230  | 236  | 241  | 250  | 259  | 362            | 402  | 442  | 483  | 553  | 602  |
| LUMENS PER WATT (lm/w)  | 48           | 50   | 51.3 | 52.4 | 54.4 | 56.4 | 36.2           | 40   | 44   | 48   | 55   | 60   |
| CRI                     | 91.2         | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 | 91.2           | 91.2 | 91.2 | 91.2 | 91.2 | 91.2 |



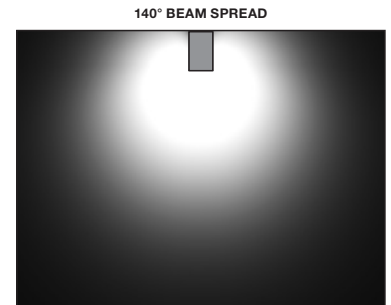
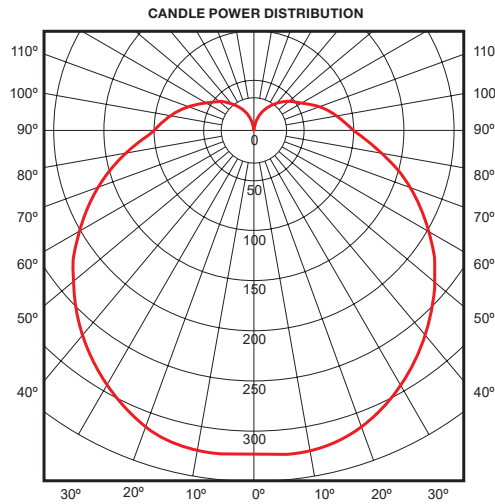
**C1 CANOPY, SHOWN WITH FJ PISTON IN SATIN NICKEL (FJ PISTON SOLD SEPARATELY)**



**DIFFUSED WHITE LENS**

| 5 Watt 140° |              |
|-------------|--------------|
| Distance    | Foot Candles |
| 1'          | 111          |
| 1.5'        | 75           |
| 2'          | 56           |
| 3'          | 37           |
| 4'          | 27           |
| 5'          | 20           |
| 6'          | 16           |
| 7'          | 13           |
| 8'          | 11           |

| 10 Watt 140° |              |
|--------------|--------------|
| Distance     | Foot Candles |
| 1'           | 191          |
| 1.5'         | 127          |
| 2'           | 95           |
| 3'           | 62           |
| 4'           | 45           |
| 5'           | 34           |
| 6'           | 27           |
| 7'           | 21           |
| 8'           | 19           |



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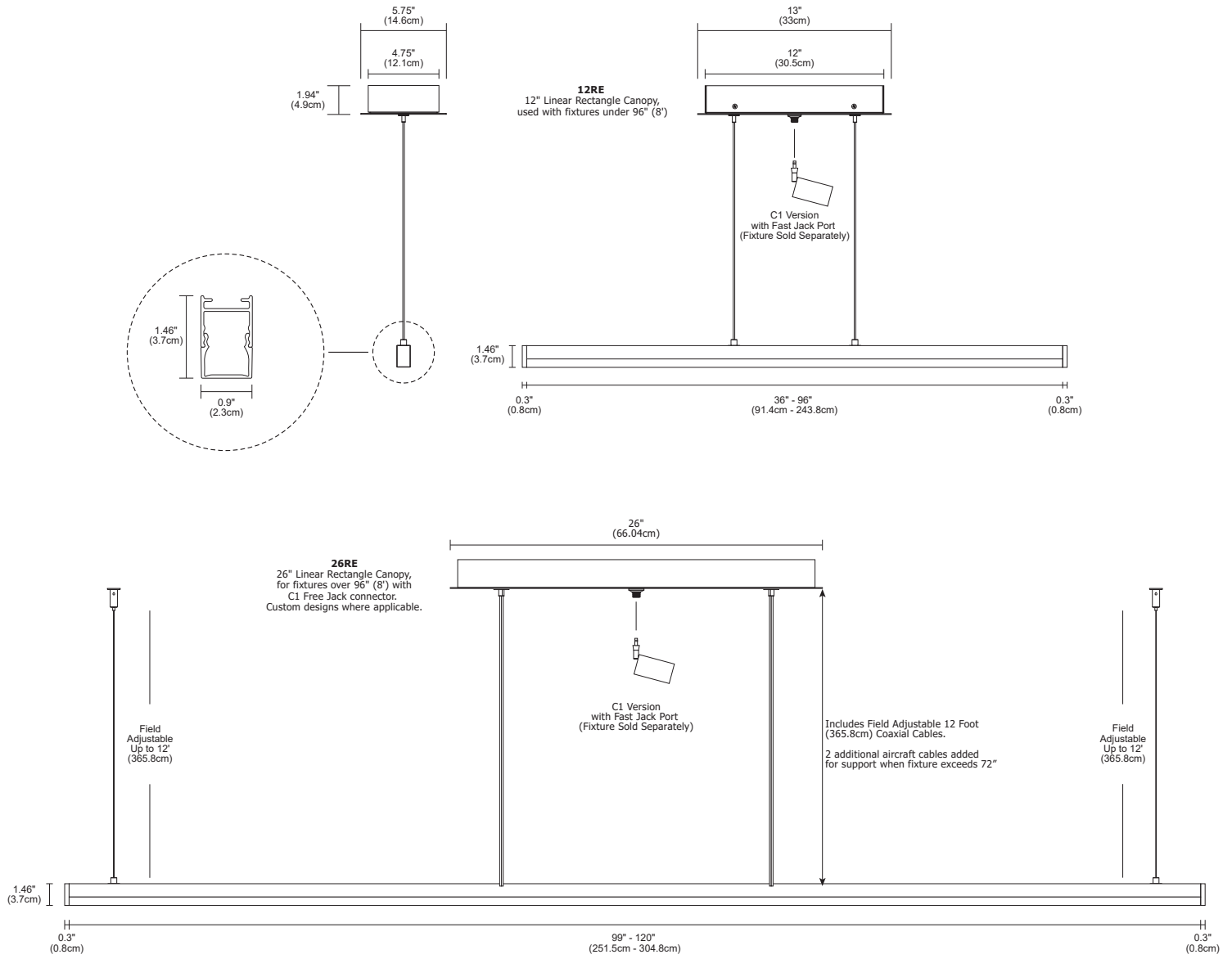
## LENGTH CHART Actual lengths for Cirrus Suspension R1

| ORDERING CODE<br>(NOMINAL SIZE) | ACTUAL LENGTH | 5W (2K4K)                |                     | 10W (2K4K)  |                           |                     |   |
|---------------------------------|---------------|--------------------------|---------------------|---|---------------------------|---------------------|---|
|                                 |               | 2K4K @<br>5 WATTS PER FT | POWER SUPPLY        | DMX POWER AND CDMX<br>CONTROLLER: YOU NEED ONE POWER<br>SUPPLY ONLY (SEE PAGES BELOW) | 2K4K @<br>10 WATTS PER FT | POWER SUPPLY        | DMX POWER AND CDMX<br>CONTROLLER: YOU NEED ONE POWER<br>SUPPLY ONLY (SEE PAGES BELOW) |
| 36                              | 37.1          | 15                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 30                        | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 39                              | 39.5          | 16                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 32                        | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 41                              | 41.9          | 17                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 34                        | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 44                              | 44.3          | 18                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 37                        | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 46                              | 46.7          | 19                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 38                        | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 48                              | 49.1          | 20                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 40                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 51                              | 51.5          | 21                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 42                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 53                              | 53.9          | 22                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 44                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 56                              | 56.3          | 23                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 47                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 58                              | 58.7          | 24                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 48                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 60                              | 61.1          | 25                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 50                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 63                              | 63.5          | 26                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 52                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 65                              | 65.9          | 27                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 54                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 68                              | 68.3          | 28                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 57                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 70                              | 70.7          | 29                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 58                        | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 72                              | 73.1          | 30                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 60                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 75                              | 75.5          | 31                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 62                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 77                              | 77.9          | 32                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 64                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 80                              | 80.3          | 33                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 67                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 82                              | 82.7          | 34                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 68                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 84*                             | 85.1          | 35                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 70                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 87                              | 87.5          | 36                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 72                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 89                              | 89.9          | 37                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 74                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 92                              | 92.3          | 38                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 77                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 94                              | 94.7          | 39                       | PSB-2x40W-UNI-24VDC | PSB-100W-24VDC-2XK  | 78                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 96                              | 97.1          | 40                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 80                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 99                              | 99.5          | 41                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 82                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 101                             | 101.9         | 42                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 84                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 104                             | 104.3         | 43                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 87                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 106                             | 106.7         | 44                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 88                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 108                             | 109.1         | 45                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 90                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 111                             | 111.5         | 46                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 92                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 113                             | 113.9         | 47                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 94                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 116                             | 116.3         | 48                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 97                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 118                             | 118.7         | 49                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 98                        | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |
| 120**                           | 121.1         | 50                       | PSB-2x60W-UNI-24VDC | PSB-100W-24VDC-2XK  | 100                       | PSB-2x96W-UNI-24VDC | PSB-100W-24VDC-2XK  |

\*Maximum Chrome Length \*\*Maximum Shipping Length

|         |  |              |  |      |  |
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| PROJECT |  | FIXTURE TYPE |  | DATE |  |
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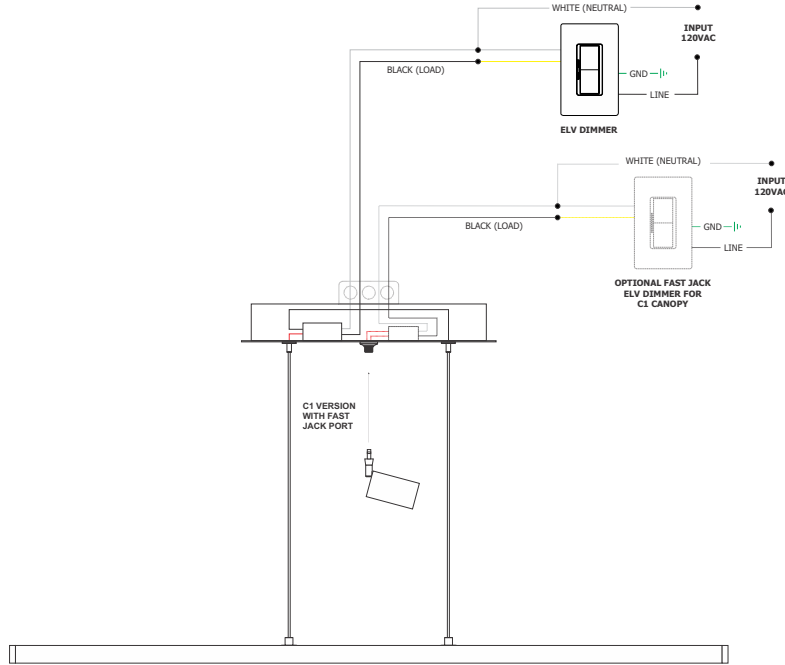
**DRAWINGS** Dimension drawings for Cirrus Suspension R1



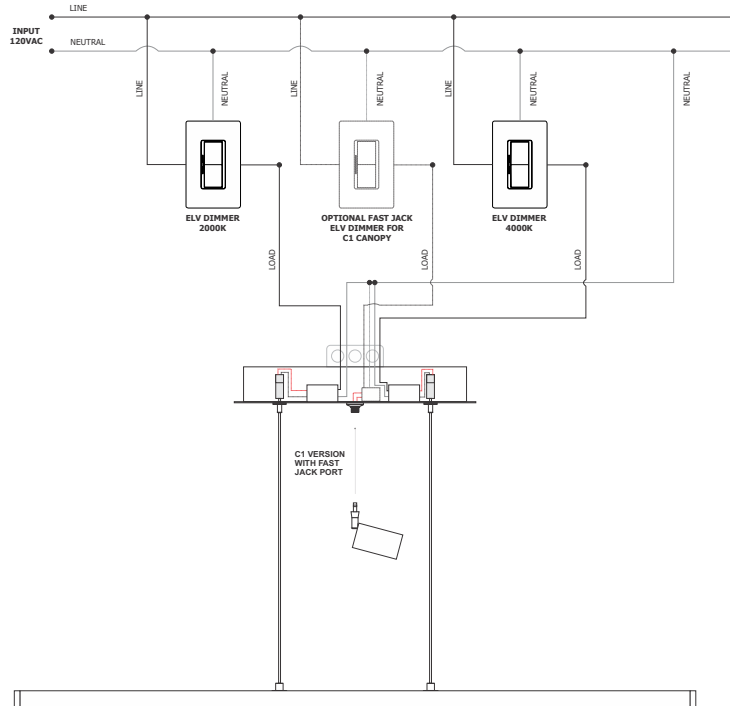
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**WIRING DIAGRAM** Wiring Diagram for Static White with ELV Dimmer

**APPLICATION** ELV dimming for Cirrus Power Suspension, Center Feed Canopy with Fast Jack (C1), Static White  
**DIMMING** Dimmable with ELV dimmer: Legrand, Adorne ADTP703TU  
 Lutron: Diva DVELV-300P, Skylark SELVz-300P, Maestro MAELV-600 and Radio Ra 2



**WIRING DIAGRAM** Wiring Diagram for Tunable White with FJ Port, ELV Dimmers



Remote Power Supply in J-box

|         |              |      |
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| PROJECT | FIXTURE TYPE | DATE |
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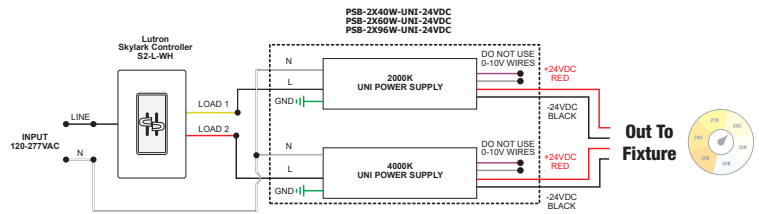
| UNIVERSAL POWER SUPPLIES & RECOMMENDED DIMMERS† |                        |                        |                        |                     |
|---|------------------------|------------------------|------------------------|---------------------|
| ORDERING CODE                                   | PSB-2X40W-UNI-24VDC    | PSB-2X60W-UNI-24VDC    | PSB-2X96W-UNI-24VDC    | PSB-4X96W-UNI-24VDC |
|   |                        |                        |                        |                     |
| <b>SPECIFICATIONS</b>                           |                        |                        |                        |                     |
| MAXIMUM LOAD                                    | 2X40W                  | 2X60W                  | 2X96W                  | 4X96W               |
| INPUT VOLTAGE                                   | 120-277VAC             | 120-277VAC             | 120-277VAC             | 120-277VAC          |
| OUTPUT VOLTAGE                                  | 24VDC                  | 24VDC                  | 24VDC                  | 24VDC               |
| DIMENSIONS                                      | 12.15" X 6.48" X 2.18" | 12.15" X 6.48" X 2.18" | 12.15" X 6.48" X 2.18" | 17" X 13" X 3"      |
| CLASSIFICATION                                  | CLASS 2                | CLASS 2                | CLASS 2                | CLASS 2             |
| IN-WALL MOUNTING                                | PSB-2X40W-UNI-24VDC-IW | PSB-2X60W-UNI-24VDC-IW | PSB-2X96W-UNI-24VDC-IW | NA                  |
| <b>ELV DIMMING &amp; CONTROLS</b>               |                        |                        |                        |                     |
| LUTRON DIVA: DVELV-300P                         | •                      | •                      | •                      | •                   |
| LUTRON SKYLARK: SELV-300P                       | •                      | •                      | •                      | •                   |
| LUTRON RADIO RA2: RRD-6NA                       | •                      | •                      | •                      | •                   |
| LUTRON MAESTRO: MAELV-600                       | •                      | •                      | •                      | •                   |
| LEGRAND ADORNE: ADTP-703TUM4                    | •                      | •                      | •                      | •                   |
| <b>0-10 DIMMING &amp; CONTROLS</b>              |                        |                        |                        |                     |
| PHILIPS SUNRISE: SR1200ZTUNV                    | •                      | •                      | •                      | •                   |
| LUTRON DIVA: DVTW-WH, DVSTV-WH                  | •                      | •                      | •                      | •                   |
| LUTRON NOVA T: NTSTV-DV-XX                      | •                      | •                      | •                      | •                   |
| LUTRON GRAFIK EYE QS: QSGRJ-XP                  | •                      | •                      | •                      | •                   |
| LUTRON RADIO RA2: RRD-10ND                      | •                      | •                      | •                      | •                   |
| LEVITON: LEV40050                               | •                      | •                      | •                      | •                   |
| LEVITON IP710-LFZ                               | •                      | •                      | •                      | •                   |
| LEGRAND: ADPD4FBL3P2W4                          | •                      | •                      | •                      | •                   |
| <b>TRIAC DIMMING &amp; CONTROLS</b>             |                        |                        |                        |                     |
| LUTRON SKYLARK: S2-L-WH                         | •                      | •                      | •                      | •                   |
| LUTRON DVLV-600P-WH                             | •                      | •                      | •                      | •                   |
| LUTRON DVLV-603P-WH                             | •                      | •                      | •                      | •                   |
| LUTRON MALV-600-WH                              | •                      | •                      | •                      | •                   |
| LUTRON MALV-1000-WH                             | •                      | •                      | •                      | •                   |
| LUTRON MA-R-XX                                  | •                      | •                      | •                      | •                   |

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

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

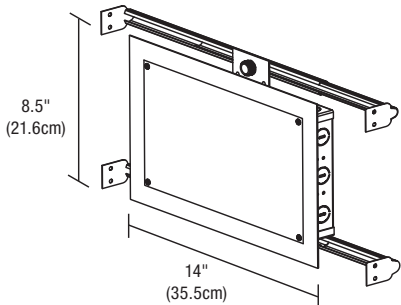
**MAXIMUM LENGTH**

| POWER SUPPLY        | 5 WATTS | 10 WATTS |
|---------------------|---------|----------|
| PSB-2X40W-UNI-24VDC | 8 FEET  | 4 FEET   |
| PSB-2X60W-UNI-24VDC | 12 FEET | 6 FEET   |
| PSB-2X96W-UNI-24VDC | 20 FEET | 10 FEET  |



**Configuration 1**  
 S2-L-WH (TRIAC) Single Pole Dimming with Dual Universal Power Supplies

**IN WALL MOUNTING OPTIONS**



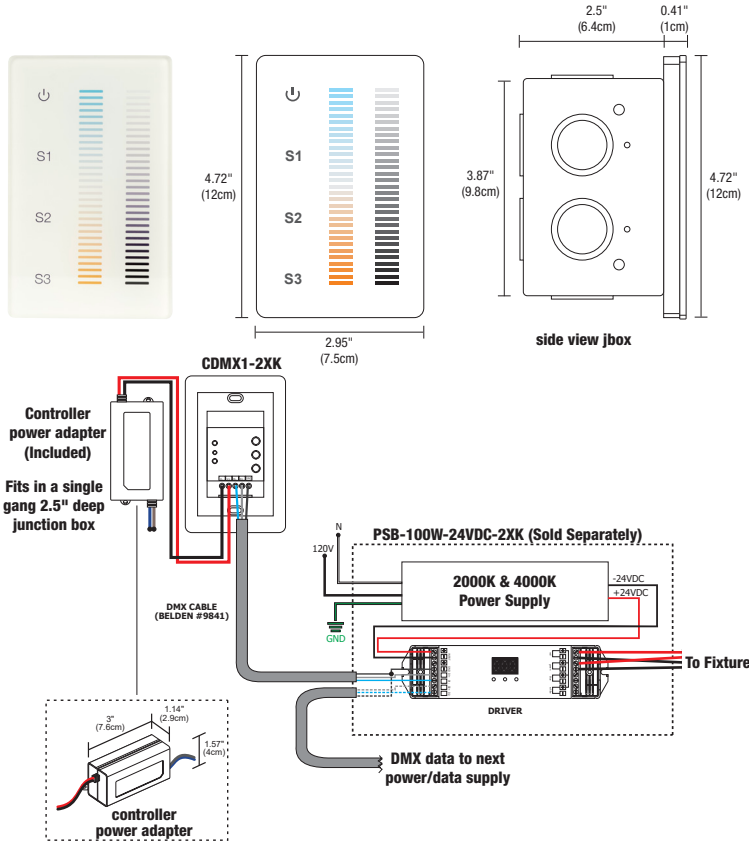
**In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes 8.5 x 14.25 inch:** PSB-2X40W-UNI-24VDC-IW, PSB-2X60W-UNI-24VDC-IW, PSB-2X96W-UNI-24VDC-IW

|         |              |      |
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| PROJECT | FIXTURE TYPE | DATE |
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# DYNAMIC/TUNABLE WHITE CONTROLLER AND POWER SUPPLIES

## 24VDC INDOOR CONSTANT VOLTAGE POWER SUPPLIES WITH DMX DRIVERS



### DESCRIPTION:

The Dynamic/Tunable White (**2K4K**) Touch Controller offers fast and accurate Color Temperature adjustment and the ability to regulate the Brightness Independently. The modern Glass faceplate features illuminated indicators, and a back-lit night light that softly illuminates the controller when powered off. Designed for Dynamic/Tunable White, and dual-color LED installations within a single zone. The two Vertical Touch sliders are precise and sensitive, allowing you to fine-tune your perfect Color Temperature at any point between **2000K (Sunset) to 4000K (Cool White)** while selecting over **250 levels** of Brightness in a smooth, uninterrupted transition. Create Thousands of Dynamic White Color Combinations while maintaining even Brightness and overall saturation. Easily save three pre-set scenes for different times of the day. Support health, performance, and general well-being using Human-Centric lighting by fine-tuning the biological effects that light has on the circadian cycle using the latest in LED technology. Includes a power adapter that fits behind the controller within a standard junction box and fits inside a standard single-gang receptacle (not for use in a multi-gang box). Use with an insulated, 24 AWG stranded, tinned copper wire (Belden #9841). Power Supplies are Sold Separately. Includes a 5 year pro-rated warranty.

### APPLICATIONS:

Indoor

### OUTPUT SIGNAL:

USITT DMX 512 (1990)

### INSTALLATION:

Fits in a single gang 2.5 inch deep junction box. Not compatible with multi-gang boxes.

### LABELS:

ROHS, FCC, Damp Location, ETL/UL

### POWER INPUT:

120-240VAC

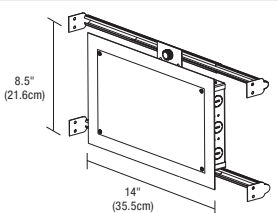
| Product                                | Type           | Finish    |
|--|----------------|-----------|
| <b>CDMX1</b>                           | <b>2XK</b>     | <b>WH</b> |
| CDMX1 DMX Single Zone Touch Controller | 2XK 2 X Kelvin | WH White  |

| DYNAMIC COLOR CHANGING (DMX) POWER SUPPLIES & RECOMMENDED CONTROLLERS* |   |   |   |   |
|--|---|---|---|---|
| ORDERING CODE  | PSB-100W-24VDC-2XK                                  | PSB-2X100W-24VDC-2XK  | PSB-3X100W-24VDC-2XK  | PSB-4X100W-24VDC-2XK  |
|  |   |   |   |   |
| SPECIFICATIONS   |   |   |   |   |
| <b>MAXIMUM LOAD OF LED STRIP LENGTH</b>                                | 100W<br>5 WATTS - 20FT MAX.<br>10 WATTS - 10FT MAX. | 2X100W<br>5 WATTS 2 X 20FT MAX.<br>10 WATTS - 2 X 10FT MAX. | 3X100W<br>5 WATTS 3 X 20FT MAX.<br>10 WATTS - 3 X 10FT MAX. | 4X100W<br>5 WATTS 4 X 20FT MAX.<br>10 WATTS - 4 X 10FT MAX. |
| <b>INPUT VOLTAGE</b>   | 120-277VAC  | 120-277VAC  | 120-277VAC  | 120-277VAC  |
| <b>OUTPUT VOLTAGE</b>  | 24VDC   | 24VDC   | 24VDC   | 24VDC   |
| <b>DIMENSIONS</b>  | 12.4" X 6.48" X 2.18"                               | 14" X 10" X 3"  | 17" X 10" X 3"  | 17" X 10" X 3"  |
| <b>CLASSIFICATION</b>  | CLASS 2   | CLASS 2   | CLASS 2   | CLASS 2   |
| <b>IN-WALL MOUNTING</b>  | PSB-100W-24VDC-2XK-IW                               | NA  | NA  | NA  |
| DMX DYNAMIC/TUNABLE WHITE DIMMING & CONTROLS                           |   |   |   |   |
| <b>TUNABLE WHITE TOUCH CONTROLLER (CDMX1-2XK)</b>                      | •   | •   | •   | •   |

- Flicker free dimming
- Aluminum casing for optimal heat dissipation
- Isolated output power per NEC and UL safety requirements
- UL & ETL recognized/ listed, meets UL 8750, 1310 requirements

- Auto-reset; short circuit, overload and thermal protection
- Class 2 power supply
- Efficient, High power factor > 0.90

### IN WALL MOUNTING OPTIONS



**8.5 x 14 inch In-Wall Mounting Kit:** Includes power supply, box cover and stud hangers for installing Junction Box in wall. Select "IW" in the options section of compatible power supply ordering codes if an In-Wall Mounting Kit is needed.

**Ordering Codes:** PSB-100W-24VDC-2XK-IW

|         |  |              |  |      |  |
|---------|--|--------------|--|------|--|
| PROJECT |  | FIXTURE TYPE |  | DATE |  |
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| LUTRON HI-LUME® PREMIER .1% ECOSYSTEM®† |                   |                                   |                                   |
|---|-------------------|-----------------------------------|-----------------------------------|
| ORDERING CODES                          | L3D0-96W24V-U     | 2-WIRE ECOSYSTEM LTEA4U1UKL-CV240 | 3-WIRE ECOSYSTEM L3DA4U1UKL-CV240 |
| <b>SPECIFICATIONS</b>                   |                   |                                   |                                   |
| <b>MAXIMUM LOAD</b>                     | 96W               | 5W-40W                            | 5W-40W                            |
| <b>INPUT VOLTAGE</b>                    | 120-277VAC        | 120-277VAC                        | 120-277VAC                        |
| <b>OUTPUT VOLTAGE</b>                   | 24VDC             | 24VDC                             | 24VDC                             |
| <b>DIMENSIONS</b>                       | 10.5" X 5.5" X 2" | 4" X 4.89" X 2.62"                | 4" X 4.89" X 2.62"                |
| <b>CLASSIFICATION</b>                   | CLASS 2           | CLASS 2                           | CLASS 2                           |
| <b>DIMMING AND CONTROLS</b>             |                   |                                   |                                   |
| <b>RADIO RA2</b>                        | •                 | •                                 | •                                 |
| <b>HOMEWORKS QS</b>                     | •                 | •                                 | •                                 |
| <b>PHPM-3F-120</b>                      | •                 | •                                 | •                                 |
| <b>PHPM-3F-DV</b>                       | •                 | •                                 | •                                 |
| <b>BCI-0-10</b>                         | •                 | •                                 | •                                 |

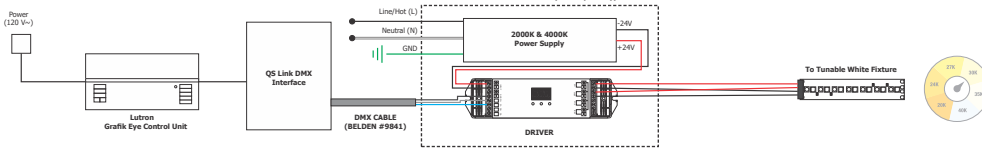
†24K - 57K color temperatures are compatible with 0-10V, ELV, and Lutron Hi-Lume® Power Supplies. Warm Dim (27D, 30D) color temperatures are only compatible with ELV power supplies.

\*Tunable White (2K4K) Color Temperature is compatible with 0-10V, ELV, DMX, and Lutron Hi-Lume® Power Supplies. Dynamic Color (RGB, RGB+W) and Static Color (Amber, Blue, Green, or Red) are compatible with DMX Power Supplies.

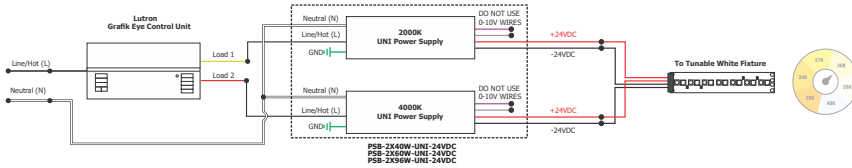
\*\*Tunable White (2K4K) uses one or two power supplies, dependent on the controller or dimmer(s) used.

Lutron Hi-Lume® can be used in both single or dual power formats, dependent on the controller or dimmer(s). Specify amount of Power Supplies based on this.

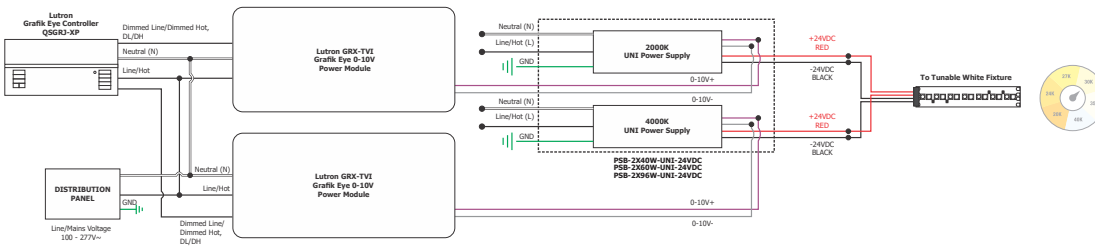
### WIRING DIAGRAM: DMX Control with Lutron Grafik Eye Control Unit



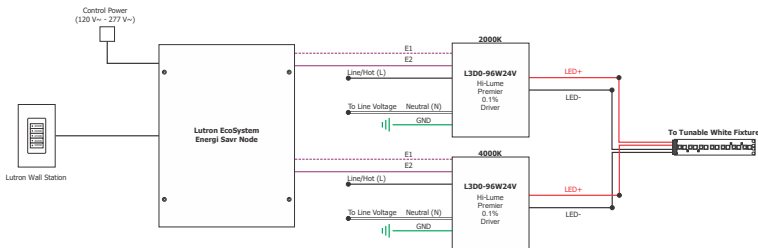
### WIRING DIAGRAM: Line Voltage Dimming with Lutron Grafik Eye Control Unit



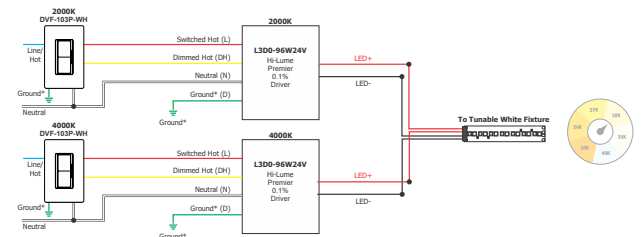
### WIRING DIAGRAM: 0-10V Dimming with Lutron Grafik Eye Control Unit or Wall box controller



### WIRING DIAGRAM: 2-Wire EcoSystem Panel



### WIRING DIAGRAM: 3-Wire EcoSystem Wall Box



|         |              |      |
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| PROJECT | FIXTURE TYPE | DATE |
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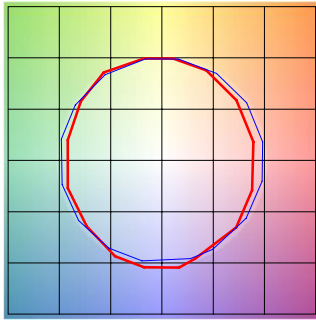
# SUSPENSION TM30 DATA

## DYNAMIC/TUNABLE WHITE DOWNLIGHT, CENTER 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.

### 2000K ONLY (2K4K) | Rf: 84.3 | Rg: 96.9

Color Vector Graphic

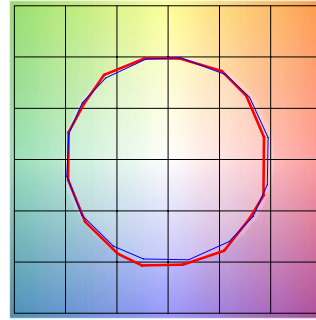


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
|         |      | CHROMA           | HUE    |
| 1       | 80.3 | -8.9%            | 1.7%   |
| 2       | 79.7 | -7.0%            | 7.8%   |
| 3       | 78.9 | -2.9%            | 10.0%  |
| 4       | 89.5 | -0.5%            | 5.1%   |
| 5       | 94.4 | 0.7%             | 1.7%   |
| 6       | 92.1 | 2.4%             | -0.3%  |
| 7       | 89.4 | -2.4%            | -5.9%  |
| 8       | 89.7 | -6.4%            | -0.2%  |
| 9       | 86.0 | -4.9%            | 4.6%   |
| 10      | 81.8 | -3.4%            | 9.3%   |
| 11      | 83.1 | 3.3%             | 9.7%   |
| 12      | 85.8 | 5.6%             | 3.3%   |
| 13      | 85.6 | 6.2%             | -12.8% |
| 14      | 61.7 | -1.9%            | -19.0% |
| 15      | 79.7 | -3.3%            | -12.9% |
| 16      | 78.1 | -7.9%            | -10.6% |

### 3000K (2K4K) | Rf: 90.2 | Rg: 101.4

Color Vector Graphic

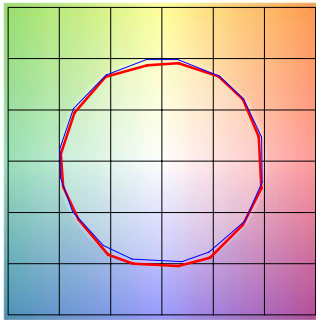


■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
|         |      | CHROMA           | HUE    |
| 1       | 90.9 | -3.8%            | 1.3%   |
| 2       | 91.7 | -1.9%            | 3.3%   |
| 3       | 88.7 | 0.7%             | 5.1%   |
| 4       | 92.4 | -1.0%            | 0.7%   |
| 5       | 92.9 | 0.9%             | 1.7%   |
| 6       | 93.1 | 3.3%             | -0.6%  |
| 7       | 91.0 | -1.8%            | -0.4%  |
| 8       | 97.0 | 0.2%             | -1.1%  |
| 9       | 92.8 | -0.5%            | 3.6%   |
| 10      | 88.3 | 1.0%             | 7.0%   |
| 11      | 87.1 | 3.8%             | 7.8%   |
| 12      | 87.6 | 6.5%             | -0.3%  |
| 13      | 89.3 | 3.6%             | -6.3%  |
| 14      | 86.1 | 4.5%             | -9.1%  |
| 15      | 91.6 | -1.9%            | -3.1%  |
| 16      | 83.8 | -1.5%            | -11.2% |

### 4000K ONLY (2K4K) | Rf: 89.6 | Rg: 99.1

Color Vector Graphic



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 91.3 | -2.5%            | 1.0%  |
| 2       | 95.3 | -0.5%            | 0.5%  |
| 3       | 94.3 | -0.7%            | 1.1%  |
| 4       | 91.1 | -3.4%            | -1.1% |
| 5       | 89.5 | -5.6%            | 0.0%  |
| 6       | 94.6 | -1.4%            | 1.3%  |
| 7       | 93.2 | -3.0%            | 2.6%  |
| 8       | 91.3 | -1.8%            | 4.6%  |
| 9       | 86.5 | -0.9%            | 9.1%  |
| 10      | 83.3 | -0.5%            | 9.5%  |
| 11      | 83.3 | 4.9%             | 9.0%  |
| 12      | 89.7 | 4.1%             | 1.7%  |
| 13      | 90.1 | 3.6%             | -4.3% |
| 14      | 93.4 | 5.2%             | -2.1% |
| 15      | 87.4 | 0.4%             | -4.3% |
| 16      | 86.6 | 0.4%             | -6.1% |

|         |              |      |
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| PROJECT | FIXTURE TYPE | DATE |
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# CIRRUS SUSPENSION R1

DYNAMIC/TUNABLE WHITE DOWNLIGHT, CENTER FEED



**FJ-SCO-1-PN**  
Fast Jack Scope LED  
9W, 315 lumens 3000K  
(adjustable beam spread  
from 20°-50°)  
Fixture Finishes: SN, PN, BZ, WH



**FJ-PST-SP-1-30K-SN**  
Fast Jack Piston  
9W, 650 lumens  
SP 15°, NF 25°, FL 35°  
& WF 45° Beam Spreads  
Fixture Finishes: SN, WH



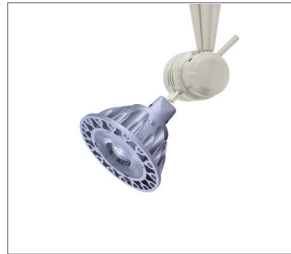
**FJ-FOR-SQ-3-PN**  
**FJ-FOR-RD-3-PN**  
Fast Jack Form Round or Square  
Fixture Finishes: SN, PN



**FJ-FOR-2RD-3-SN**  
**FJ-FOR-2SQ-3-SN**  
Fast Jack Form  
Round or Square 2-Head  
Fixture Finishes: SN, PN



**FJ-REB-1-PN**  
Fast Jack Rebel  
Fixture Finishes: SN, PN, BZ, WH



**FJ-CHO-1-SN**  
Fast Jack Chopper with LED  
Fixture Finishes: SN, PN, BZ



**FJ-SPI-3-PN with S1-PN**  
Fast Jack Spirit, S1 Shade  
Fixture Finishes: SN, PN, BZ  
S1 Shade Finishes: SN, PN, BZ, BK



**FJ-LOW-1-SN with S1-SN**  
Fast Jack Low Rider, S1 Shade  
Fixture Finishes: SN, PN, BZ  
S1 Shade Finishes: SN, PN, BZ, BK

### FAST JACK FIXTURE & SHADE FINISHES


|                        |                           |                          |                 |                 |
|------------------------|---------------------------|--------------------------|-----------------|-----------------|
| <b>SN</b> Satin Nickel | <b>PN</b> Polished Nickel | <b>BZ</b> Antique Bronze | <b>WH</b> White | <b>BK</b> Black |
|------------------------|---------------------------|--------------------------|-----------------|-----------------|

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


# 12VAC LED MR16

REV 06.16.20

## SOL LIGHT WARM DIM


| Brand   | Ordering Code           | Watts | CRI | R9 | Beam Angle (Degrees) | Lamp Life (Hours) | CCT Warm Dim        | Total Lumens | Lumens Per Watt | Voltage | Certification                                   | Halogen Equivalent |
|---|-------------------------|-------|-----|----|----------------------|-------------------|---------------------|--------------|-----------------|---------|---|--------------------|
|  | MR16-12V-8W-NF-27KWD-SL | 8     | 97+ | 85 | 24                   | 30,000            | 2700K dims to 1800K | 390          | 50              | 12V     | Title 24 Compliant, low flicker <1% CE, UL, NOM | 50                 |
|   | MR16-12V-8W-FL-27KWD-SL | 8     | 97+ | 85 | 36                   | 30,000            | 2700K dims to 1800K | 427          | 55              | 12V     | Title 24 Compliant, low flicker <1% CE, UL, NOM | 50                 |
|   | MR16-12V-8W-NF-30KWD-SL | 8     | 97+ | 85 | 24                   | 30,000            | 3000K dims to 1800K | 410          | 53              | 12V     | Title 24 Compliant, low flicker <1% CE, UL, NOM | 50                 |
|   | MR16-12V-8W-FL-30KWD-SL | 8     | 97+ | 85 | 36                   | 30,000            | 3000K dims to 1800K | 450          | 58              | 12V     | Title 24 Compliant, low flicker <1% CE, UL, NOM | 50                 |

## SORAA BRILLIANT HIGH LUMEN 2700K COLOR TEMPERATURE

| Brand   | Ordering Code       | Watts | CRI | R9 | Beam Angle (Degrees) | Lamp Life (Hours) | CBCP  | Total Lumens | Lumens Per Watt | Voltage      | Certification   | Halogen Equivalent |
|---|---------------------|-------|-----|----|----------------------|-------------------|-------|--------------|-----------------|--------------|---|--------------------|
|  | SM16-07-10D-827-H1* | 8     | 90  | 80 | 10                   | 35,000            | 8,000 | 575          | 77              | 12V +/- 1.2V | Title 20 certification pending, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 75                 |
|   | SM16-07-25D-827-H1  | 8     | 90  | 80 | 25                   | 35,000            | 3,710 | 600          | 80              | 12V +/- 1.2V | Title 20 certification pending, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 75                 |
|   | SM16-07-36D-827-H1  | 8     | 90  | 80 | 36                   | 35,000            | 1,550 | 600          | 80              | 12V +/- 1.2V | Title 20 certification pending, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 75                 |


\*Use with Snap Lens

## SORAA VIVID 2700K COLOR TEMPERATURE INDOOR/OUTDOOR


| Brand   | Ordering Code       | Watts | CRI | R9 | Beam Angle (Degrees) | Lamp Life (Hours) | CCT Warm Dim | Total Lumens | Lumens Per Watt | Voltage      | Certification   | Halogen Equivalent |
|---|---------------------|-------|-----|----|----------------------|-------------------|--------------|--------------|-----------------|--------------|---|--------------------|
|  | SM16-07-10d-927-03* | 8     | 95  | 95 | 10                   | 35,000            | 5,710        | 390          | 52              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |
|   | SM16-07-25D-927-03  | 8     | 95  | 95 | 25                   | 35,000            | 2,260        | 410          | 55              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |
|   | SM16-07-36D-927-03  | 8     | 95  | 95 | 36                   | 35,000            | 1,070        | 410          | 55              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |

\*Use with Snap Lens

## SORAA HEALTHY

| Brand   | Ordering Code           | Watts | CRI | R9 | Beam Angle (Degrees) | Lamp Life (Hours) | CCT Warm Dim | Total Lumens | Lumens Per Watt | Voltage      | Certification                       | Halogen Equivalent |
|---|-------------------------|-------|-----|----|----------------------|-------------------|--------------|--------------|-----------------|--------------|-------------------------------------|--------------------|
|  | SH-MR16-07-36D-27-01-X2 | 8     | 80  | 90 | 36                   | 25,000            | 1,020        | 400          | 53              | 12V +/- 1.2V | UL/CUL, FCC Title 47 Part 15B, RoHS | 50                 |

## SORAA BRILLIANT HIGH LUMEN 3000K COLOR TEMPERATURE

| Brand   | Ordering Code       | Watts | CRI | R9 | Beam Angle (Degrees) | Lamp Life (Hours) | CBCP  | Total Lumens | Lumens Per Watt | Voltage      | Certification   | Halogen Equivalent |
|---|---------------------|-------|-----|----|----------------------|-------------------|-------|--------------|-----------------|--------------|---|--------------------|
|  | SM16-07-10D-830-H1* | 8     | 90  | 80 | 10                   | 35,000            | 8,400 | 600          | 80              | 12V +/- 1.2V | Title 20 certification pending, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 75                 |
|   | SM16-07-25D-830-H1  | 8     | 90  | 80 | 25                   | 35,000            | 3,300 | 630          | 84              | 12V +/- 1.2V | Title 20 certification pending, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 75                 |
|   | SM16-07-36D-830-H1  | 8     | 90  | 80 | 36                   | 35,000            | 1,650 | 630          | 84              | 12V +/- 1.2V | Title 20 certification pending, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 75                 |


\*Use with Snap Lens

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

# 12VAC LED MR16


REV 06.16.20

## SORAA VIVID 3000K COLOR TEMPERATURE MR16 INDOOR/OUTDOOR

| Brand   | Ordering Code       | Watts | CRI | R9 | Beam Angle (Degrees) | Lamp Life (Hours) | CCT Warm Dim | Total Lumens | Lumens Per Watt | Voltage      | Certification   | Halogen Equivalent |
|---|---------------------|-------|-----|----|----------------------|-------------------|--------------|--------------|-----------------|--------------|---|--------------------|
|  | SM16-07-10D-930-03* | 8     | 95  | 95 | 10                   | 35,000            | 6,000        | 410          | 55              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |
|   | SM16-07-25D-930-03  | 8     | 95  | 95 | 25                   | 35,000            | 2,400        | 435          | 58              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |
|   | SM16-07-36D-930-03  | 8     | 95  | 95 | 36                   | 35,000            | 1,130        | 435          | 58              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |


\*Use with Snap Lens

## SORAA VIVID 4000K COLOR TEMPERATURE MR16 INDOOR/OUTDOOR

| Brand   | Ordering Code       | Watts | CRI | R9 | Beam Angle (Degrees) | Lamp Life (Hours) | CBCP  | Total Lumens | Lumens Per Watt | Voltage      | Certification   | Halogen Equivalent |
|---|---------------------|-------|-----|----|----------------------|-------------------|-------|--------------|-----------------|--------------|---|--------------------|
|  | SM16-07-10D-940-03* | 8     | 95  | 95 | 10                   | 35,000            | 6,290 | 430          | 57              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |
|   | SM16-07-25D-940-03  | 8     | 95  | 95 | 25                   | 35,000            | 2,510 | 455          | 61              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |
|   | SM16-07-36D-940-03  | 8     | 95  | 95 | 36                   | 35,000            | 1,190 | 455          | 61              | 12V +/- 1.2V | JA8-2016-E, UL/CUL Class 2 and non-Class 2, FCC Title 47 Part 15B, RoHS, CE | 50                 |

\*Use with Snap Lens

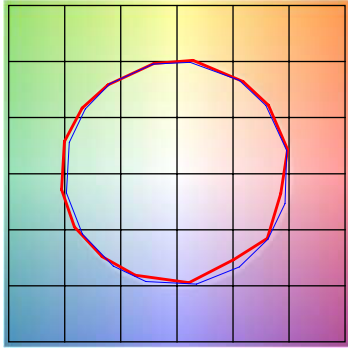
## SATCO 3500K COLOR TEMPERATURE MR16 INDOOR/OUTDOOR

| Brand  | Ordering Code | Watts | CRI | R9  | Beam Angle (Degrees) | Lamp Life (Hours) | CBCP  | Total Lumens | Lumens Per Watt | Voltage | Certification  | Halogen Equivalent |
|--|---------------|-------|-----|-----|----------------------|-------------------|-------|--------------|-----------------|---------|--|--------------------|
|  | S8637         | 8     | 90+ | N/A | 15                   | 25,000            | 6,290 | 430          | 61              | 12      | UL/CUL, FCC Title 47 Part 15B, RoHS, Lawful for sale in California | 75                 |
|  | S8642         | 8     | 90+ | N/A | 40                   | 25,000            | 2,510 | 455          | 61              | 12      | UL/CUL, FCC Title 47 Part 15B, RoHS, Lawful for sale in California | 75                 |

8MR16/LED/40/35K/90CRI/12V 8 watt; LED MR16; 3500K; 40° beam spread; GU5.3 base; 12 volts. Features: Silver back MR16 reflector. Direct replacements for 75 watt Halogen lamps - uses only 8 watts. Dimmable. No UV or IR radiation. Approved for enclosed fixtures.

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

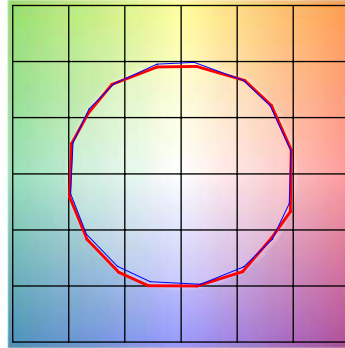
**SORAA VIVID MR16 36° FL**  
**3000K** | Rf: 90.4 | Rg: 99.5  
 Color Vector Graphic



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |        |
|---------|------|------------------|--------|
|         |      | CHROMA           | HUE    |
| 1       | 94.4 | 1.0%             | 0.8%   |
| 2       | 94.6 | 2.1%             | -1.1%  |
| 3       | 91.9 | 1.1%             | -3.3%  |
| 4       | 91.9 | 2.1%             | -2.1%  |
| 5       | 93.9 | 0.4%             | -0.9%  |
| 6       | 95.2 | 0%               | 1.9%   |
| 7       | 93.4 | 2.7%             | -0.7%  |
| 8       | 92.7 | 4.2%             | 0.1%   |
| 9       | 90.5 | 3.6%             | -3.9%  |
| 10      | 84.3 | 2.3%             | -9.2%  |
| 11      | 81.3 | 2.3%             | -12.7% |
| 12      | 81.3 | -3.6%            | -10.3% |
| 13      | 90.5 | -2.5%            | -6.2%  |
| 14      | 88.5 | -8.2%            | -0.4%  |
| 15      | 96.2 | -1.0%            | 0.3%   |
| 16      | 86.6 | -5.4%            | 8.2%   |

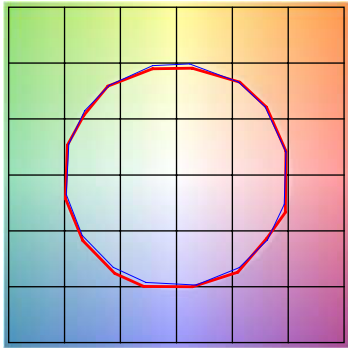
**SOL-LIGHT WARM DIM MR16 36° FL**  
**3000K** | Rf: 94.2 | Rg: 101.2  
 Color Vector Graphic



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 96.0 | 0.3%             | 0.7%  |
| 2       | 96.8 | 0.9%             | -0.8% |
| 3       | 95.6 | 0.5%             | -0.8% |
| 4       | 93.1 | -3.2%            | -2.7% |
| 5       | 95.7 | -2.4%            | 0.4%  |
| 6       | 96.8 | 0.4%             | 1.6%  |
| 7       | 92.4 | -1.4%            | 3.5%  |
| 8       | 96.8 | 1.2%             | 1.2%  |
| 9       | 94.0 | 1.4%             | 3.1%  |
| 10      | 92.6 | 2.1%             | 3.9%  |
| 11      | 92.2 | 3.7%             | 3.9%  |
| 12      | 92.4 | 3.9%             | -0.9% |
| 13      | 94.7 | 0.9%             | -3.3% |
| 14      | 93.4 | 3.0%             | -3.2% |
| 15      | 93.6 | -1.1%            | 0.9%  |
| 16      | 90.2 | 2.4%             | -6.7% |

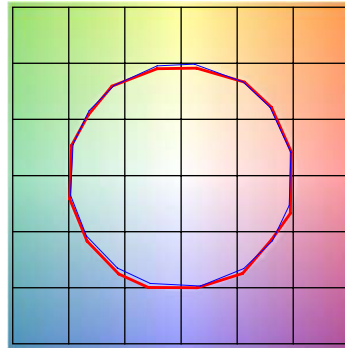
**SORAA VIVID MR16 25° NFL**  
**3000K** | Rf: 94.0 | Rg: 101.0  
 Color Vector Graphic



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 95.9 | 0.3%             | 0.8%  |
| 2       | 96.8 | 0.8%             | -0.9% |
| 3       | 95.5 | 0.4%             | -0.9% |
| 4       | 92.7 | -3.4%            | -2.9% |
| 5       | 95.6 | -2.7%            | 0.4%  |
| 6       | 96.8 | 0.1%             | 1.6%  |
| 7       | 92.2 | -1.6%            | 3.7%  |
| 8       | 96.6 | 1.1%             | 1.5%  |
| 9       | 93.7 | 1.4%             | 3.3%  |
| 10      | 92.4 | 2.2%             | 4.1%  |
| 11      | 92.2 | 3.8%             | 3.8%  |
| 12      | 92.4 | 3.9%             | -1.1% |
| 13      | 94.4 | 0.8%             | -3.6% |
| 14      | 93.3 | 2.8%             | -3.4% |
| 15      | 93.4 | -1.4%            | 0.9%  |
| 16      | 90.3 | 2.2%             | -6.7% |

**SOL-LIGHT WARM DIM MR16 24° NFL**  
**3000K** | Rf: 94.2 | Rg: 101.2  
 Color Vector Graphic



■ Test ■ Reference

| HUE BIN | Rf   | GRAPHIC SHIFTS % |       |
|---------|------|------------------|-------|
|         |      | CHROMA           | HUE   |
| 1       | 95.9 | 0.3%             | 0.8%  |
| 2       | 96.8 | 0.8%             | -0.9% |
| 3       | 95.5 | 0.4%             | -0.9% |
| 4       | 92.7 | -3.4%            | -2.9% |
| 5       | 95.6 | -2.7%            | 0.4%  |
| 6       | 96.8 | 0.1%             | 1.6%  |
| 7       | 92.2 | -1.6%            | 3.7%  |
| 8       | 96.6 | 1.1%             | 1.5%  |
| 9       | 93.7 | 1.4%             | 3.3%  |
| 10      | 92.4 | 2.2%             | 4.1%  |
| 11      | 92.2 | 3.8%             | 3.8%  |
| 12      | 92.4 | 3.9%             | -1.1% |
| 13      | 94.4 | 0.8%             | -3.6% |
| 14      | 93.3 | 2.8%             | -3.4% |
| 15      | 93.4 | -1.4%            | 0.9%  |
| 16      | 90.3 | 2.2%             | -6.7% |

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