



# TRAC-LITES™ 21W LED CYLINDER R610L SERIES

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_



Buy American

## PRODUCT DESCRIPTION

The R610L Series 21W LED Cylinder is an efficient and affordable trac fixture, with a simple and timeless cylindrical aesthetic. It can deliver up to 2341 lumens, at efficacies up to 110LPW and having a rated life of 50,000 hours. Its unique, nested yoke arm enables simple, straight-down aiming if desired. Precision bayonet-mount reflectors enable uniform spot, narrow flood, flood or wide flood distributions to be achieved. These fixtures can also be fitted with a factory-assembled or field-installed accessory holder that accommodates one accessory if desired. The 21W LED Cylinder can be specified with a variety of factory-assembled track mounting adapters, making it compatible with all line voltage Juno Trac systems and system components, or with many competitive 120V track systems.



## PRODUCT SPECIFICATIONS

**Construction** Die cast aluminum housing provides outstanding thermal management of LED, yielding 70% average lumen maintenance at 50,000 hours of operation • Simple, timeless design complements any decor • Available in white, black and silver finishes.

**LED** High performance LED array provides outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4000K white phosphor high performance LEDs • Chromaticity range within a 3-step MacAdam Ellipse • Exceptional 80 CRI minimum on standard product • Optional high CRI versions offer 90 CRI minimum.

**Driver** Integrated into fixture housing behind LED light engine to minimize overall fixture footprint • Insulating air gap between driver and LED light engine, plus thermal potting compound, optimizes thermal operation • Provides quiet operation with or without dimming • 120V fixtures are dimmable using high quality, factory-approved dimmers - see [R610L-DIM](#) • Solid state electronic, Class 2 compliant • Integral overcurrent and short circuit protection • Designed for greater than 50,000 hour operating life • FCC Certified to Part 15 Class B EMI standards (Class A at 277V).

**Reflector** Precision designed reflectors provide uniform spot, narrow flood, flood or wide flood beam distributions • Faceted/dimpled reflector ensures a properly color-mixed beam • Accessory reflectors available to convert from one beam distribution to another in the field.

**Accessory Holder** Optional accessory holder replaces front bezel without tools • May be specified as a factory-installed option or ordered separately as a field-installed accessory • Precision bayonet mounting • Accommodates one accessory if desired.

**Juno Universal Trac Adapter** Universally compatible with both Trac-Master 1-circuit or 2-circuit trac, Trac-Lites trac, monopoints and special mountings • Also UL Recognized for use on ConTech® LT Series track • Copper alloy contacts provide precise spring action – no arcing and will not take a set • True, positive electrical ground • On/off switch included • Patented embossed polarity arrows on bottom of adapter • Spring-loaded positive latch with embossed polarity arrows secures trac light to trac • Two-position power contact provided for two-circuit application.

**Alternate TEK/HTEK Trac Adapters** Compatible with either Juno TEK or HTEK trac systems • System specific and assembled to trac fixture • Integrally polarized construction to prevent reverse installation – only allows insertion in proper orientation • Rotary circuit selector enables simple switching between circuits • Integral on/off switch enables individual fixtures to be switched for servicing.

**Alternate GTYPE Trac Adapter** Compatible with track systems based on GES type track, including Lithonia LT Commercial Track (not LTS type)

• System specific and assembled to trac fixture • Available in black, silver, and white finish only • Consult factory for additional information.

**Alternate HTYPE Trac Adapter** Compatible with track systems which use a H-type track adapter, including Lithonia LTS Decorative Track (not LT type) • System specific and assembled to trac fixture • Two-position power contact provided for two-circuit application • Available in black, silver, and white finish only • Consult factory for additional information.

**Alternate LTYPE Trac Adapter** Compatible with track systems which use a L-type track adapter • System specific and assembled to trac fixture

• Two-position power contact provided for two-circuit application • Available in black, silver, and white finish only • Consult factory for additional information.

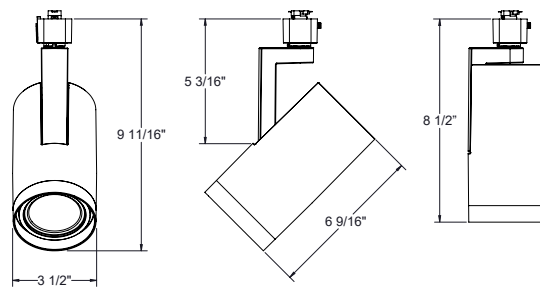
**Aiming** 360° horizontal coverage • 95° vertical aiming capability.

**Labels** UL and C-UL Listed • ENERGY STAR® certified • DesignLights Consortium® Qualified • 90 CRI versions certified as CEC Title 24 Compliant • Union made • Assembled in U.S.A.

**Buy American** This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

**Warranty** 5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx). Specifications subject to change without notice.

## DIMENSIONS



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# TRAC-LITES™

## 21W LED CYLINDER

### R610L SERIES

#### ORDERING INFORMATION

Ordering Examples: R610L 27K 80CRI PDIM SP BL, R610L HTYPE 30K 90CRI PDIM NFL WH AHR610 WHT

| Series                                    | Mounting Adapter Type   | Color Temperature  | Color Rendering Index                      | Dimming Compatibility   |
|---|---|--|--|---|
| <b>R610L</b> Trac-Lites™ 21W LED Cylinder | <b>(Blank)</b> Juno Universal 120V Trac Adapter<br><b>GTYPE</b> G-Type Trac Adapter<br><b>HTYPE</b> H-Type Trac Adapter<br><b>LTYPE</b> L-Type Trac Adapter<br><b>TEK<sup>1</sup></b> TEK 120V Trac Adapter<br><b>HTEK<sup>1,2</sup></b> HTEK 277V Trac Adapter | <b>27K</b> 2700K<br><b>30K</b> 3000K<br><b>35K</b> 3500K<br><b>40K</b> 4000K | <b>80CRI</b> 80 CRI<br><b>90CRI</b> 90 CRI | <b>OFF<sup>2</sup></b> On/Off (Non-Dimming)<br><b>PDIM</b> Phase Dimmable |

| Distribution  | Finish   | Accessory Holder Option   |
|---|--|---|
| <b>SP</b> Spot<br><b>NFL</b> Narrow Flood<br><b>FL</b> Flood<br><b>WFL</b> Wide Flood | <b>BL</b> Black<br><b>SL</b> Silver<br><b>WH</b> White | <b>AHR610 BLCK</b> Accessory Holder for R610L, Black<br><b>AHR610 WHT</b> Accessory Holder for R610L, White |

| Accessories            |                                   |                    |                                   |                  |                          |
|------------------------|-----------------------------------|--------------------|-----------------------------------|------------------|--------------------------|
| <b>AHR610 BLCK 275</b> | Accessory Holder for R610L, Black | <b>DGF 275</b>     | Dichroic Glass Filters            | <b>TR11 SPT</b>  | Reflector – Spot         |
| <b>AHR610 WHT 275</b>  | Accessory Holder for R610L, White | <b>DCCF 275</b>    | Dichroic Color Correction Filters | <b>TR11 NFLD</b> | Reflector – Narrow Flood |
| <b>HCLBL 275</b>       | Hexagonal Cell Louver - Black     | <b>DIFF 275</b>    | Diffusion Glass Lens              | <b>TR11 FLD</b>  | Reflector – Flood        |
| <b>SNOOTBL 275</b>     | Snoot - Black                     | <b>UVF 275</b>     | UV Filter                         | <b>TR11 WFLD</b> | Reflector – Wide Flood   |
| <b>EYEBROWBL 275</b>   | EyeBrow - Black                   | <b>LSPREAD 275</b> | Linear Spread Glass Lens          |                  |                          |
| <b>CGF 275 CLEAR</b>   | Clear Glass Lens                  | <b>PRISM 275</b>   | Prismatic Spread Glass Lens       |                  |                          |
| <b>CGF 275</b>         | Color Glass Filters               | <b>SOLITE 275</b>  | Uniformity Lens (Solite)          |                  |                          |

See specification sheet [D1.2.2](#) for details and color filter options. Other accessories can be found on specification sheet [D1.2.0](#).

#### Notes:

- 1 TEK/HTEK adapter is black on silver finish fixtures.
- 2 HTEK versions available with OFF option only, and OFF option only available with HTEK version only.

# TRAC-LITES™

## 21W LED CYLINDER

### R610L SERIES

#### PERFORMANCE DATA<sup>1</sup>

| Catalog Number      | Input Voltage | Watts (Typical) | Lumens | Efficacy (LPW) | Rated Life (Hours) |
|---------------------|---------------|-----------------|--------|----------------|--------------------|
| R610L 27K 80CRI SP  | 120V          | 21.3            | 2182   | 103            | 50,000             |
| R610L 27K 80CRI NFL | 120V          | 21.3            | 2167   | 102            | 50,000             |
| R610L 27K 80CRI FL  | 120V          | 21.3            | 2095   | 99             | 50,000             |
| R610L 27K 80CRI WFL | 120V          | 21.3            | 2105   | 99             | 50,000             |
| R610L 27K 90CRI SP  | 120V          | 21.3            | 1864   | 88             | 50,000             |
| R610L 27K 90CRI NFL | 120V          | 21.3            | 1851   | 87             | 50,000             |
| R610L 27K 90CRI FL  | 120V          | 21.3            | 1789   | 84             | 50,000             |
| R610L 27K 90CRI WFL | 120V          | 21.3            | 1798   | 85             | 50,000             |
| R610L 30K 80CRI SP  | 120V          | 21.3            | 2273   | 107            | 50,000             |
| R610L 30K 80CRI NFL | 120V          | 21.3            | 2257   | 106            | 50,000             |
| R610L 30K 80CRI FL  | 120V          | 21.3            | 2182   | 103            | 50,000             |
| R610L 30K 80CRI WFL | 120V          | 21.3            | 2193   | 103            | 50,000             |
| R610L 30K 90CRI SP  | 120V          | 21.3            | 1955   | 92             | 50,000             |
| R610L 30K 90CRI NFL | 120V          | 21.3            | 1941   | 92             | 50,000             |
| R610L 30K 90CRI FL  | 120V          | 21.3            | 1877   | 89             | 50,000             |
| R610L 30K 90CRI WFL | 120V          | 21.3            | 1886   | 89             | 50,000             |
| R610L 35K 80CRI SP  | 120V          | 21.3            | 2318   | 109            | 50,000             |
| R610L 35K 80CRI NFL | 120V          | 21.3            | 2302   | 109            | 50,000             |
| R610L 35K 80CRI FL  | 120V          | 21.3            | 2226   | 105            | 50,000             |
| R610L 35K 80CRI WFL | 120V          | 21.3            | 2237   | 106            | 50,000             |
| R610L 35K 90CRI SP  | 120V          | 21.3            | 1978   | 93             | 50,000             |
| R610L 35K 90CRI NFL | 120V          | 21.3            | 1964   | 93             | 50,000             |
| R610L 35K 90CRI FL  | 120V          | 21.3            | 1898   | 90             | 50,000             |
| R610L 35K 90CRI WFL | 120V          | 21.3            | 1908   | 90             | 50,000             |
| R610L 40K 80CRI SP  | 120V          | 21.3            | 2341   | 110            | 50,000             |
| R610L 40K 80CRI NFL | 120V          | 21.3            | 2325   | 110            | 50,000             |
| R610L 40K 80CRI FL  | 120V          | 21.3            | 2247   | 106            | 50,000             |
| R610L 40K 80CRI WFL | 120V          | 21.3            | 2259   | 107            | 50,000             |
| R610L 40K 90CRI SP  | 120V          | 21.3            | 1978   | 93             | 50,000             |
| R610L 40K 90CRI NFL | 120V          | 21.3            | 1964   | 93             | 50,000             |
| R610L 40K 90CRI FL  | 120V          | 21.3            | 1898   | 90             | 50,000             |
| R610L 40K 90CRI WFL | 120V          | 21.3            | 1908   | 90             | 50,000             |

#### ELECTRICAL DATA

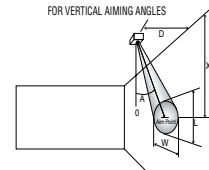
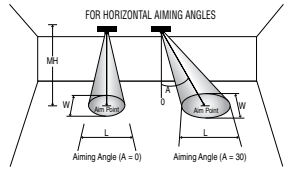
|                      |       |
|----------------------|-------|
| Input Voltage        | 120V  |
| Input Current (max.) | 0.18A |
| Power Factor         | >0.90 |
| T.H.D.               | <20%  |

<sup>1</sup>Performance data, including Rated Life, is based on measurements of an individual fixture operating in a 25°C ambient.

# TRAC-LITES™ 21W LED CYLINDER R610L SERIES

**CBCP** • Centerbeam candlepower  
**FC** • Footcandles at beam center (aim point)

In vertical aiming applications, aim point (X) is determined by dividing distance from the wall (D) by the tangent of the desired aim angle (A) (0.5774 for 30°, 1.0 for 45°, 1.732 for 60°).



| Fixture   | Beam Type | Beam Spread | Rated Life | CBCP  | 0° |     |     | 30° |     |      | 30° |     |     | 45°  |      |     | 60° |     |     |     |    |     |     |     |     |
|---|-----------|-------------|------------|-------|----|-----|-----|-----|-----|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|
|   |           |             |            |       | MH | FC  | L   | W   | FC  | L    | W   | D   | FC  | X    | L    | W   | FC  | X   | L   | W   | D  | FC  | X   | L   | W   |
| R610L<br>21W LED,<br>3000K, 80CRI<br>Spot         | SP        | 14°         | 50000      | 20568 | 10 | 206 | 2.5 | 2.5 | 134 | 3.3  | 2.9 | 4   | 161 | 6.9  | 4.2  | 2.0 | 454 | 4.0 | 2.0 | 1.4 | 8  | 209 | 4.6 | 2.7 | 2.3 |
|   |           |             |            |       | 12 | 143 | 3.0 | 3.0 | 93  | 4.0  | 3.5 | 5   | 103 | 8.7  | 5.2  | 2.5 | 291 | 5.0 | 2.5 | 1.8 | 10 | 134 | 5.8 | 3.3 | 2.9 |
|   |           |             |            |       | 14 | 105 | 3.5 | 3.5 | 68  | 4.7  | 4.0 | 6   | 71  | 10.4 | 6.3  | 3.0 | 202 | 6.0 | 3.0 | 2.1 | 12 | 93  | 6.9 | 4.0 | 3.5 |
|   |           |             |            |       | 16 | 80  | 4.0 | 4.0 | 52  | 5.3  | 4.6 | 7   | 52  | 12.1 | 7.3  | 3.5 | 148 | 7.0 | 3.5 | 2.5 | 14 | 68  | 8.1 | 4.7 | 4.0 |
|   |           |             |            |       | 18 | 63  | 4.5 | 4.5 | 41  | 6.0  | 5.2 | 8   | 40  | 13.9 | 8.4  | 4.0 | 114 | 8.0 | 4.0 | 2.8 | 16 | 52  | 9.2 | 5.3 | 4.6 |
| R610L<br>21W LED,<br>3000K, 80CRI<br>Narrow Flood | NFL       | 25°         | 50000      | 8634  | 6  | 240 | 2.7 | 2.7 | 156 | 3.6  | 3.1 | 2.5 | 173 | 4.3  | 5.2  | 2.2 | 488 | 2.5 | 2.3 | 1.6 | 4  | 350 | 2.3 | 2.4 | 2.1 |
|   |           |             |            |       | 8  | 135 | 3.6 | 3.6 | 88  | 4.8  | 4.1 | 3.0 | 120 | 5.2  | 6.3  | 2.7 | 339 | 3.0 | 2.8 | 1.9 | 6  | 156 | 3.5 | 3.6 | 3.1 |
|   |           |             |            |       | 10 | 86  | 4.5 | 4.5 | 56  | 6.0  | 5.1 | 3.5 | 88  | 6.1  | 7.3  | 3.1 | 249 | 3.5 | 3.3 | 2.2 | 8  | 88  | 4.6 | 4.8 | 4.1 |
|   |           |             |            |       | 12 | 60  | 5.3 | 5.3 | 39  | 7.2  | 6.2 | 4.0 | 67  | 6.9  | 8.4  | 3.6 | 191 | 4.0 | 3.7 | 2.5 | 10 | 56  | 5.8 | 6.0 | 5.1 |
|   |           |             |            |       | 14 | 44  | 6.2 | 6.2 | 29  | 8.5  | 7.2 | 4.5 | 53  | 7.8  | 9.4  | 4.0 | 151 | 4.5 | 4.2 | 2.8 | 12 | 39  | 6.9 | 7.2 | 6.2 |
| R610L<br>21W LED,<br>3000K, 80CRI<br>Flood        | FL        | 42°         | 50000      | 4077  | 4  | 255 | 3.0 | 3.0 | 166 | 4.3  | 3.5 | 1.5 | 227 | 2.6  | 8.0  | 2.3 | 641 | 1.5 | 2.7 | 1.6 | 3  | 294 | 1.7 | 3.2 | 2.6 |
|   |           |             |            |       | 5  | 163 | 3.8 | 3.8 | 106 | 5.3  | 4.4 | 2.0 | 127 | 3.5  | 10.7 | 3.0 | 360 | 2.0 | 3.6 | 2.1 | 4  | 166 | 2.3 | 4.3 | 3.5 |
|   |           |             |            |       | 6  | 113 | 4.6 | 4.6 | 74  | 6.4  | 5.3 | 2.5 | 82  | 4.3  | 13.4 | 3.8 | 231 | 2.5 | 4.4 | 2.7 | 5  | 106 | 2.9 | 5.3 | 4.4 |
|   |           |             |            |       | 7  | 83  | 5.3 | 5.3 | 54  | 7.4  | 6.1 | 3.0 | 57  | 5.2  | 16.1 | 4.6 | 160 | 3.0 | 5.3 | 3.2 | 6  | 74  | 3.5 | 6.4 | 5.3 |
|   |           |             |            |       | 8  | 64  | 6.1 | 6.1 | 41  | 8.5  | 7.0 | 3.5 | 42  | 6.1  | 18.8 | 5.3 | 118 | 3.5 | 6.2 | 3.8 | 7  | 54  | 4.0 | 7.4 | 6.1 |
| R610L<br>21W LED,<br>3000K, 80CRI<br>Wide Flood   | WF        | 53°         | 50000      | 2588  | 3  | 288 | 3.3 | 3.3 | 187 | 5.0  | 3.8 | 1.0 | 324 | 1.7  | **   | 2.2 | 915 | 1.0 | 3.2 | 1.6 | 2  | 420 | 1.2 | 3.3 | 2.6 |
|   |           |             |            |       | 4  | 162 | 4.4 | 4.4 | 105 | 6.6  | 5.1 | 1.5 | 144 | 2.6  | **   | 3.3 | 407 | 1.5 | 4.8 | 2.4 | 3  | 187 | 1.7 | 5.0 | 3.8 |
|   |           |             |            |       | 5  | 104 | 5.6 | 5.6 | 67  | 8.3  | 6.4 | 2.0 | 81  | 3.5  | **   | 4.4 | 229 | 2.0 | 6.4 | 3.1 | 4  | 105 | 2.3 | 6.6 | 5.1 |
|   |           |             |            |       | 6  | 72  | 6.7 | 6.7 | 47  | 9.9  | 7.7 | 2.5 | 52  | 4.3  | **   | 5.6 | 146 | 2.5 | 8.0 | 3.9 | 5  | 67  | 2.9 | 8.3 | 6.4 |
|   |           |             |            |       | 7  | 53  | 7.8 | 7.8 | 34  | 11.6 | 9.0 | 3.0 | 36  | 5.2  | **   | 6.7 | 102 | 3.0 | 9.6 | 4.7 | 6  | 47  | 3.5 | 9.9 | 7.7 |

For 27K 80CRI fixtures, use 0.96 multiplier; for 27K 90CRI fixtures, use 0.82 multiplier; for 30K 90CRI fixtures, use 0.86 multiplier; for 35K 80CRI fixtures, use 1.02 multiplier; for 35K 90CRI fixtures, use 0.87 multiplier; for 40K 80CRI fixtures, use 1.03 multiplier; for 40K 90CRI fixtures, use 0.87 multiplier.

\*\*Due to steep aiming angle, length of beam extends beyond 25'.