



TRAC-LITES™ 21W LED CYLINDER R610L SERIES

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____



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 2-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.

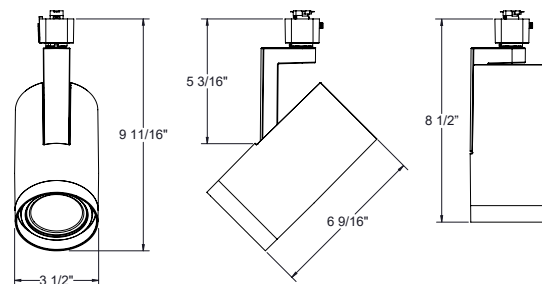
Aiming 360° horizontal coverage • 95° vertical aiming capability.

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 Act This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to 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. 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
R610L Trac-Lites™ 21W LED Cylinder	(Blank) Juno Universal 120V Trac Adapter	27K 2700K	80CRI 80 CRI	OFF ² On/Off (Non-Dimming)
	GTYPE G-Type Trac Adapter	30K 3000K	90CRI 90 CRI	PDIM Phase Dimmable
	HTYPE H-Type Trac Adapter	35K 3500K		
	LTYPE L-Type Trac Adapter	40K 4000K		
	TEK ¹ TEK 120V Trac Adapter			
	HTEK ^{1,2} HTEK 277V Trac Adapter			

Distribution	Finish	Accessory Holder Option
SP Spot	BL Black	AHR610 BLCK Accessory Holder for R610L, Black
NFL Narrow Flood	SL Silver	AHR610 WHT Accessory Holder for R610L, White
FL Flood	WH White	
WFL Wide Flood		

Accessories					
AHR610 BLCK 275	Accessory Holder for R610L, Black	DGF 275	Dichroic Glass Filters	TR11 SPT	Reflector – Spot
AHR610 WHT 275	Accessory Holder for R610L, White	DCCF 275	Dichroic Color Correction Filters	TR11 NFLD	Reflector – Narrow Flood
HCLBL 275	Hexagonal Cell Louver - Black	DIFF 275	Diffusion Glass Lens	TR11 FLD	Reflector – Flood
SNOOTBL 275	Snoot - Black	UVF 275	UV Filter	TR11 WFLD	Reflector – Wide Flood
EYEBROWBL 275	Eye Brow - Black	LSPREAD 275	Linear Spread Glass Lens		
CGF 275 CLEAR	Clear Glass Lens	PRISM 275	Prismatic Spread Glass Lens		
CGF 275	Color Glass Filters	SOLITE 275	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 DATA¹

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

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

ELECTRICAL DATA

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

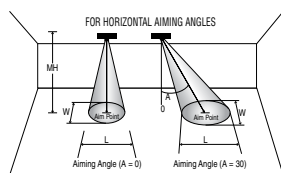
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21W LED CYLINDER

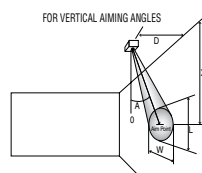
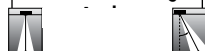
R610L SERIES

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°].



Horizontal Aiming



Vertical Aiming Angles



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 21W LED, 3000K, 80CRI 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 21W LED, 3000K, 80CRI 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 21W LED, 3000K, 80CRI 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 21W LED, 3000K, 80CRI Wide Flood	WFL	5° 	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'.