

juno[®]

Recessed and Trac Lighting

Juno Arc™ LED Trac Fixture

A uniquely narrow profile in an ultra-efficient trac light



JUNO LIGHTING GROUP
by Schneider Electric

Juno Arc LED Trac Fixture ...





Stylishly thin with LED performance and efficiency to spare

This is professional grade

The Arc LED is professional grade all the way, producing up to 1,000 lumens of powerful accent lighting that's ideal for a wide variety of retail merchandising applications. It features durable all-metal, die cast aluminum construction and a commercial-quality lens holder. Three field-interchangeable Fresnel-type lenses and a high-reflectance optic system make it possible for such a shallow fixture to provide such intense, well-focused illumination.

Spot, narrow flood, and flood beam spreads are available, offering smooth, uniform light distribution. An integral, cube cell louvered lens holder is available as an option or as a field-installed accessory to provide optimum visual cutoff. Every aspect of the Arc LED meets the highest professional criteria ... designed, engineered, and assembled in the USA and backed with a five-year warranty.

Drawing on the old adage, "you can never be too thin," Juno's new Arc LED trac fixture presents a stylish and uniquely narrow profile. With a single, sweeping curve and a shallow, cylindrical lens holder, this trac light makes a bold, contemporary statement.

Though exceptionally thin, the Arc LED is a professional-grade performer. Juno's LED product development team took a fresh approach to the design of this fixture, employing Fresnel-based optic technology to achieve sophisticated light beam control in an ultra-narrow housing. Completing the package is an advanced single-array LED light engine, producing brilliant high-quality light and with incredible efficiency.

Arc LED approximates the light output and distribution of a 60-75W PAR30 halogen fixture ... but at just 13 watts input, it consumes only 20 percent of the energy and delivers fixture efficacy of up to 80 lumens per watt. And with a rated service life of 50,000 hours, it lasts about 20-times longer than halogen. Offering style, performance, and efficiency, Arc LED represents a true breakthrough in trac light design.



Juno Arc T271L Series

Innovative design yields a superior trac light

How do you get so much light from such a small fixture? ... It requires an innovative approach to trac light design. Arc LED's optic system combines a very shallow but effective reflector with Fresnel-based lenses to gather more light and focus it into concentrated beam patterns. The result is a very narrow, stylish fixture that delivers big-time performance. It produces up to 1,000 lumens of brilliant color-consistent light in CCTs of 2700K, 3000K, 3500K, or 4000K. Color accuracy is outstanding at 85 CRI typical; or even better with optional 93 CRI typical offered at 2700K or 3000K. An Enhanced Spectrum version is also available that makes red, green, and blue colors pop with unsurpassed vibrancy and saturation ... ideal for lighting retail apparel, grocery produce, art objects and many other applications.

Going green saves on energy and operating costs

Needing just 13 watts to produce over 1,000 lumens, Arc LED is one of the most energy-efficient trac lights ever designed. If you are concerned about meeting today's challenging energy codes and "green" initiatives, there is no better choice. And greater efficiency equates to lower energy bills. Save even more with lower HVAC costs due to the lack of heat in the projected LED light beam.

Arc LED offers extraordinarily long service life. At 50,000 hours with 70% lumen maintenance, you can expect at least 11-years of uninterrupted service, based on 12-hours per day operation. With no expensive lamps to change and none of the associated labor, operating costs can be pared to the bone.

LEDs contain no mercury, lead, or other harmful toxins that can require expensive disposal procedures. There are no UV emissions that can damage fade-sensitive materials. They are infrared-free and RoHS compliant. In short, they are people-, business-, and environment-friendly.

Whether the application is retail, commercial, or residential, Arc LED represents the industry's most cost-effective trac lighting solution.



Optional Enhanced Spectrum Performance



Apparel



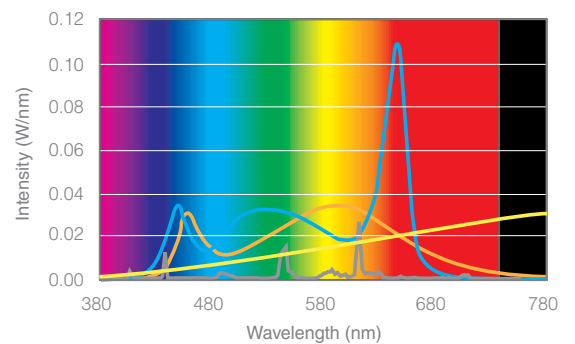
Grocery



Floral

Incandescent light sources (yellow line) cover the entire spectrum of colors; however, the intensity of the wavelengths is low, and there are no variations that make certain colors “pop” more than others, making all colors appear about the same intensity. Fluorescent sources (gray line) only produce certain wavelengths of light, and they produce very little in the blue, green and red wavelengths. Traditional white LEDs (orange line) do a better job of covering the full spectrum of colors, but they also fall short when it comes to the green and red wavelengths. As a result, items with reds and greens will look “flat” in this lighting environment. Enhanced Spectrum LEDs (blue line) exaggerate the intensity in a range of wavelengths, specifically blue, green and red.

As a result, these colors will “pop” in product illuminated with these sources, enabling the full impact and excitement color has to offer. While the wavelengths may be exaggerated, the lighting effect is entirely natural ...just richer and more vibrant!



Juno Arc LED... Efficiency and performance... by the numbers


Juno 13W 3K Arc LED Narrow Flood 23°	Performance and Cost Comparison Over 50,000 Hour Fixture Life	60W PAR30 Halogen Narrow Flood 25°
13.2	System Watts	60
984	Initial Lumens	800
910	Mean Lumens	720
3302	Center Beam Candlepower	2900
75	Efficacy (Lumens/Watt)	13
3000K	Color Temperature	2800K
50,000	Rated Life (Hours) ¹	3,000
Operating Cost Summary		
\$66.00	Total Energy Cost per Fixture ²	\$300.00
–	Maintenance Cost per Fixture ³	\$340.00
\$66.00	Total Operating Costs	\$640.00
\$574.00	Total Savings per Fixture	

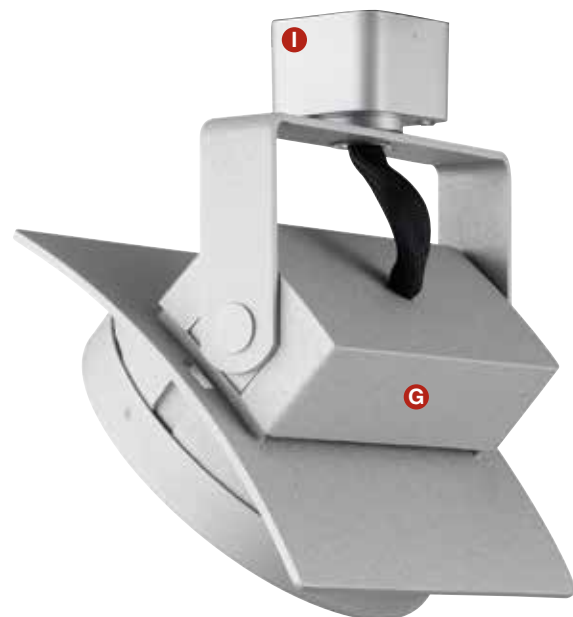
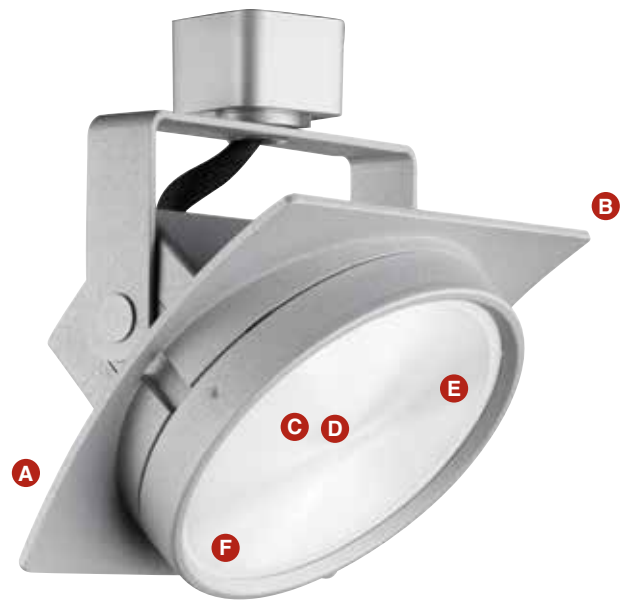
¹ Halogen rated life is based on 50% lamp failure; LED rated life is based on 0% failure with 70% lumen maintenance.

² Based on electricity costs of \$0.10 per kilowatt hour.

³ Replacement Cost per Lamp + Replacement Labor Cost x Number of Lamp Changes for 50,000 Hour Operation.

Juno Arc LED ... so much from something so small

- A.** Remarkably small, narrow fixture is made of durable die cast aluminum that provides exceptional thermal management of the LED, assuring 50,000-hours of maintenance-free operation.
- B.** Unique, contemporary styling complements a variety of decors; lustrous finishes include white, black, and silver.
- C.** Single Nichia LED array is capable of producing over 1,000 lumens of color-consistent light with chromaticity range within a 3-step MacAdam ellipse; 13W operation is five-times more energy-efficient than equivalent halogen.
- D.** Available in 2700K, 3000K, 3500K and 4000K color temperatures; also available in High CRI and Enhanced Spectrum versions to provide optimum color rendering.
- E.** High reflectivity, computer-designed reflector is extremely shallow, making the narrow housing profile possible.
- F.** Versatile lens holder accommodates custom field-interchangeable, Fresnel-type polycarbonate lenses, offering spot, narrow flood, or flood light distribution; beam is smooth, and uniform.
- G.** LED driver is concealed in the housing behind the light engine and is positioned with sufficient air gaps to assure optimal thermal operation; dimmable using high-quality, reverse phase dimmers.
- H.** Optional, integral, louvered lens holder provides additional visual cutoff; also available as a field-installed accessory. 
- I.** Mounting adapter permits 360° rotation; 95° vertical aiming.



T271L

Juno Arc T27IL LED Series

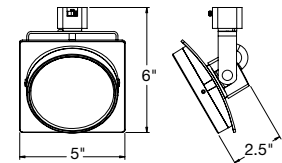


The ultra-efficient optical system of the Arc LED trac fixture maximizes efficiency while minimizing fixture depth, yielding a unique and attractive aesthetic. It approximates the light output and distribution of 60-75W PAR30 halogen lamps, utilizing about 20% of the energy and having a rated life of 50,000 hours. It is available in 2700K, 3000K, 3500K and 4000K color temperatures with a typical 85 CRI. Optional high CRI versions are available with a typical 93 CRI. There are also Enhanced Spectrum versions to bring out color depth in retail goods, produce, artwork, etc. Spot and narrow flood beam distributions, in standard CRI and high CRI versions only, are ENERGY STAR® Qualified. The Arc LED is designed in accordance with DesignLights™ Consortium requirements and is currently undergoing Qualification testing. It is available for order with or without louver to optimize visual cutoff; there is also a louver accessory that can be added at a later time if desired. The Arc LED is fully dimmable using high quality reverse phase dimmers and carries a 5-year fixture warranty.

Ordering Information

Examples: T271L27HCSWH, T271L3KNCCLWH

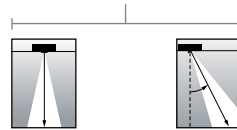
Series	Color Temperature	Color Rendering Index	Beam Spread	Lensholder	Finish
T271L 13W Arc LED	27 – 2700K 3 – 3000K 35 – 3500K 4 – 4000K	K – 85 CRI Typical HC – 93 CRI Typical ¹ ES – Enhanced Spectrum ²	S – 12° Spot N – 23° Narrow Flood F – 35° Flood	Blank – No Louver CCL – Louvered*	BL – Black SL – Silver WH – White



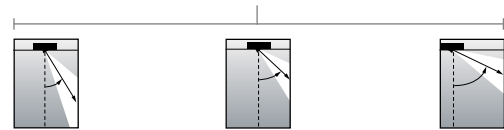
¹ 2700K and 3000K only
² 3000K and 3500K only

*Finish of integral louver option matches fixture finish

Horizontal Aiming Angles



Vertical Aiming Angles



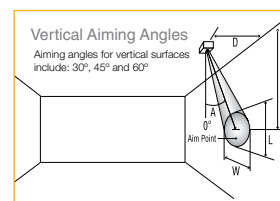
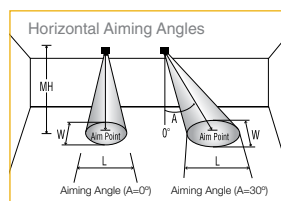
Fixture	Beam Type	Beam Spread ³	Rated Life	CBCP	0°		30°			30°			45°			60°									
					MH	FC	L	W	FC	L	W	D	FC	X	L	W	FC	X	L	W	D	FC	X	L	W
Arc 13W LED, 3000K Spot	S	12°	50000	8852	6	246	1.3	1.3	160	1.7	1.4	4	69	6.9	3.4	1.7	196	4.0	1.7	1.2	6	160	3.5	1.7	1.4
					8	138	1.7	1.7	90	2.2	1.9	6	31	10.4	5.2	2.5	87	6.0	2.5	1.8	8	90	4.6	2.2	1.9
					10	89	2.1	2.1	57	2.8	2.4	8	17	13.9	6.9	3.3	49	8.0	3.4	2.4	10	57	5.8	2.8	2.4
					12	61	2.5	2.5	40	3.3	2.9	10	11	17.3	8.6	4.2	31	10.0	4.2	2.9	12	40	6.9	3.3	2.9
					14	45	2.9	2.9	29	3.9	3.4	12	8	20.8	10.3	5.0	22	12.0	5.1	3.5	14	29	8.1	3.9	3.4
Arc 13W LED, 3000K Narrow Flood	N	23°	50000	3302	4	206	1.6	1.6	134	2.2	1.9	2	103	3.5	3.7	1.6	292	2.0	1.7	1.2	4	134	2.3	2.2	1.9
					6	92	2.5	2.5	60	3.3	2.8	3	46	5.2	5.6	2.5	130	3.0	2.6	1.7	5	86	2.9	2.8	2.4
					8	52	3.3	3.3	34	4.4	3.8	4	26	6.9	7.5	3.3	73	4.0	3.4	2.3	6	60	3.5	3.3	2.8
					10	33	4.1	4.1	21	5.5	4.7	5	17	8.7	9.3	4.1	47	5.0	4.3	2.9	7	44	4.0	3.9	3.3
					12	23	4.9	4.9	15	6.6	5.7	6	11	10.4	11.2	4.9	32	6.0	5.1	3.5	8	34	4.6	4.4	3.8
Arc 13W LED, 3000K Flood	F	35°	50000	1318	3	146	1.9	1.9	95	2.6	2.2	1	165	1.7	3.5	1.2	466	1.0	1.4	0.9	2	214	1.2	1.7	1.4
					4	82	2.5	2.5	54	3.4	2.9	1.5	73	2.6	5.2	1.9	207	1.5	2.1	1.3	3	95	1.7	2.6	2.2
					5	53	3.1	3.1	34	4.3	3.6	2	41	3.5	7.0	2.5	116	2.0	2.7	1.8	4	54	2.3	3.4	2.9
					6	37	3.7	3.7	24	5.1	4.3	2.5	26	4.3	8.7	3.1	75	2.5	3.4	2.2	5	34	2.9	4.3	3.6
					7	27	4.3	4.3	17	6.0	5.0	3	18	5.2	10.5	3.7	52	3.0	4.1	2.6	6	24	3.5	5.1	4.3

For 2700K fixtures, use 0.97 multiplier; For 2700HC fixtures, use 0.84 multiplier; For 3000HC fixtures, use 0.88 multiplier; For 3000ES fixtures, use 0.62 multiplier; For 3500K fixtures, use 1.03 multiplier; For 3500ES fixtures, use 0.64 multiplier; For 4000K fixtures, use 1.07 multiplier.

Accessories

Cat. No.	Description
TCCL1³	Cube Cell Louver/Lensholder
TLENS-1-SP	Polycarbonate Lens - Spot
TLENS-1-NFL	Polycarbonate Lens - Narrow Flood
TLENS-1-FL	Polycarbonate Lens - Flood

³ Add finish code suffix to complete catalog number (Example: TCCL1BL).



Additional trac lighting solutions literature can be downloaded from www.junolightinggroup.com/literature

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Juno Comprehensive Trac Lighting Catalog



Juno Trac-Lites™



Juno Trac 12™



Juno LED Decorative Pendants



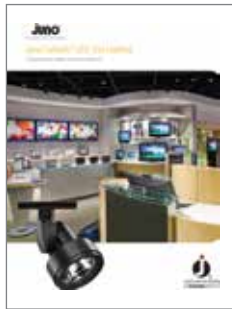
Juno LED Mini-Pendants



Juno Trac-Master® LED Wall Wash/Flood Fixtures



Juno Conix® LED



Juno Cylindra™ LED Trac Lighting



Juno LED Display & Picture Lights



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