

Juno® Cylindra™ LED Trac Lighting

Cylindra LED trac fixtures... contemporary,
stylish and ultra-efficient



JUNO LIGHTING GROUP
by Schneider Electric



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The beauty of Cylindra™... the power, performance and efficiency of LEDs

Cylindra, one of our most popular fixture series, has advanced the art and science of trac lighting to a whole new level. Now incorporating the latest in LED technologies, Cylindra represents the leading-edge in commercial illumination.

Cylindra has always been an aesthetic masterpiece, blending elegant, gentle arcs with bold edges, to create a unique, yet timeless appearance. Now, thanks to state-of-the-art LEDs, it can also offer unsurpassed performance and operating efficiencies. The 45-watt Cylindra LED trac fixture produces illumination which exceeds that of a 120-watt PAR38 halogen lamp; the 22-watt approximates a 75-watt PAR30 halogen lamp; the 15-watt model exceeds the performance of a 35-watt MR16 halogen lamp and visually approximates a 50-watt MR16. These fixtures provide brilliant illumination while reducing energy consumption by 60% or more versus typical halogen fixtures. And the 50,000-hour expected service life yields more than 10 years of maintenance-free operation in typical commercial applications. Factor in the HVAC savings due to the lower-wattage LED light source, and you have the most cost-efficient trac fixture available.



A spectacular performer

Cylindra LED track fixtures are offered in three beam-spreads, providing maximum versatility and high-flying performance:

45-Watt Cylindra LED	22-Watt Cylindra LED	15-Watt Cylindra LED
8° Spot with 40,000 CBCP	10° Spot with 20,000 CBCP	14° Spot with 6,000 CBCP
23° Narrow Flood with 11,000 CBCP	23° Narrow Flood with 5,000 CBCP	25° Narrow Flood with 2,500 CBCP
44° Flood with 3,200 CBCP	53° Wide Flood with 1,100 CBCP	38° Flood with 1,300 CBCP

CBCP = Center Beam Candlepower



Careful attention to the LED color mix and tight ANSI-standard binning assures consistent bright-white light from each fixture, and from fixture-to-fixture. The resulting beam spread is soft, gradual, and uniform. And because LEDs have no UV or IR emissions, there is absolutely no heat in the beam itself. Available in color temperatures of 2700K, 3000K, 3500K (T255LED only) and 4000K/4100K with 83-85 CRI typical, Cylindra LED is the perfect lighting solution for virtually any interior environment.



EcoLEDgy[®] driven



We say that Cylindra LED fixtures are “EcoLEDgy” driven because they can make a meaningful contribution to the preservation of our precious environment. With reduced power consumption of up to 70% less than equivalent halogen products, the energy savings are substantial. Juno Cylindra LED fixtures have no UV or IR emissions...no toxic mercury, lead or PCBs, and require no special disposal procedures.

Whether your application is retail, commercial or residential, eco-friendly Cylindra LED fixtures are the environmentally responsible choice. They will go a long way in helping you meet today’s stringent energy codes and comply with increasingly important “green” initiatives.

Cylindra LED fixtures offer dramatic energy savings and operational efficiencies when compared to equivalent halogen products and provide outstanding color rendering and illumination performance. They even compare favorably when measured against ceramic metal halide technology, with the added benefits of longer life, higher lumen maintenance over life, no IR, no damaging UV radiation, instant-on operation and – in many cases – dimmability. The accompanying chart tells the exciting story.

Efficiency and performance... by the numbers

Junos 45W 3K Cylindra LED Spot 10°	Junos 22W 3K Cylindra LED Spot 10°	Junos 15W 3K Cylindra LED Spot 14°	Performance and Cost Comparison for 50,000 Hour Fixture Life	39W PAR30L Ceramic Metal Halide Spot 10°	75W PAR30 Halogen Spot 10°	35W MR16 Halogen Spot 20°
45.4	22.7	15.7	Watts	44	75	35
2339	967	675	Initial Lumens	1800	1030	520
40,008	20,688	6,132	Center Beam Candlepower	39,600	13,000	3,825
52	43	43	Efficacy (Lumens/Watt)	41	14	15
3000K	3000K	3000K	Color Temperature	3000K	2830K	3050K
50,000	50,000	50,000	Rated Life (Hours) ¹	10,000	3,000	5,000
Operating Cost Summary						
\$227.00	\$113.50	\$78.50	Total Energy Cost per Fixture ²	\$220.00	\$375.00	\$175.00
\$0.00	\$0.00	\$0.00	Maintenance Cost per Fixture ³	\$240.00	\$416.50	\$260.00
\$227.00	\$113.50	\$78.50	Total Operating Costs	\$460.00	\$791.50	\$435.00
\$233.00	\$678.00	\$356.50	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.

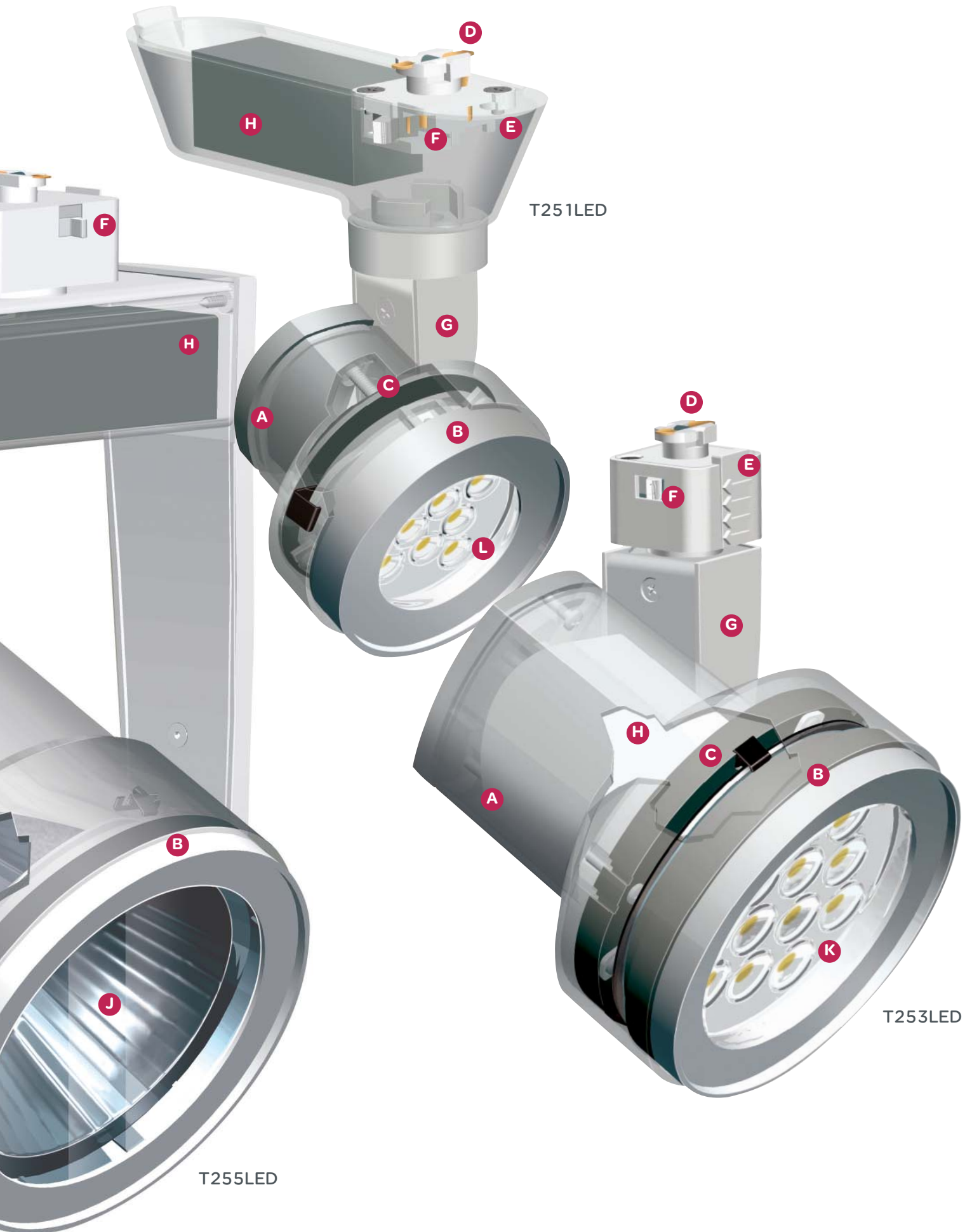
Everything you've always loved about Cyindra... and more

For years, the Juno Cyindra Series has been the preferred trac fixture of designers and installers alike. Now LED fixtures join our existing CMH and halogen lines, offering the same great family of Cyindra features... and so much more.

- A** Durable die cast aluminum construction available in white, black and silver finishes
- B** Innovative media cartridge with quick-release bayonet mounting system; simultaneously accepts up to two light control accessories on the T255LED and T253LED, or one light control accessory on the T251LED
- C** Super-efficient heat sink assures service life of 50,000 hours or more; IR-free operation eliminates projected beam heat
- D** Versatile installation on Juno Trac-Master or Trac-Lites line voltage systems and monopoints
- E** Close-to-trac mounting minimizes visual intrusion into your environment
- F** Integral on/off switch permits individual fixtures to be taken out of service without affecting other fixtures on the trac run
- G** Full 360° horizontal coverage, 105° vertical aiming; the T255LED incorporates aiming lock set screws to retain precise aiming adjustment
- H** Compact LED driver is integrated into the fixture design, minimizing the fixture footprint and vertical displacement from the trac
- I** Advanced technology, Citizen CL-340 LED array produces up to 2,500 usable lumens of consistent, bright-white light while consuming only 45 watts
- J** Interchangeable precision reflectors provide uniform spot, narrow flood and flood beam patterns that can be swapped in the field
- K** Advanced technology, Lumileds LUXEON® Rebel LEDs and non-interchangeable, precision TIR optics combine to produce over 1,000 usable lumens of consistent, bright-white light while consuming only 22 watts
- L** Advanced technology, Lumileds LUXEON Rebel LEDs and non-interchangeable, precision TIR optics combine to produce up to 740 useable lumens of consistent, bright-white light while consuming only 15 watts

LUXEON is a registered trademark of Philips Lumileds Lighting Company





T251LED

T253LED

T255LED

Juno Cylindra T255LED Series



The Juno Cylindra™ T255LED offers contemporary styling to subtly enhance practically any decor without diverting attention from the surrounding environment. The 45-watt LED fixture approximates the light output and distribution of 39-watt PAR30L ceramic metal halide lamps, utilizing about the same amount of energy, but having a rated life of 50,000 hours and significantly better lumen maintenance. Available in 2700K, 3000K, 3500K and 4000K color temperatures, the white-light Cylindra LED is compatible with all Juno line voltage trac and T43 monopoints. Cylindra's integral, bayonet-mounted accessory holder accommodates up to two accessories if desired.

Ordering Information Examples: T255LED-27K-SP-WH, T255LED-3K-NFL-SL

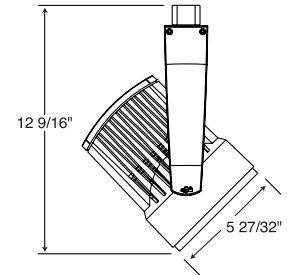
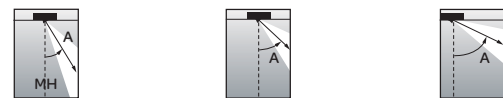
Series	Color Temperature	Dimming Compatibility	Beam Spread	Finish
T255LED 45W Cylindra LED	27 – 2700K ¹ 3 – 3000K ¹ 35 – 3500K 4 – 4000K ¹	K – Not Dimmable	SP – Spot NFL – Narrow Flood FL – Flood	BL – Black SL – Silver WH – White

¹ ENERGY STAR® Qualified

Horizontal Aiming Angles



Vertical Aiming Angles



Lamp	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	
Cylindra T255LED 45W LED, 3000K Spot	SP	8°	50000	40008	MH	12	278	1.7	1.7	180	2.2	1.9	6	139	10.4	3.4	1.7	393	6.0	1.7	1.2	12	180	6.9	2.2	1.9
					FC	14	204	2.0	2.0	133	2.6	2.3	8	78	13.9	4.5	2.2	221	8.0	2.2	1.6	14	133	8.1	2.6	2.3
					L	16	156	2.2	2.2	102	3.0	2.6	10	50	17.3	5.7	2.8	141	10.0	2.8	2.0	16	102	9.2	3.0	2.6
					W	18	123	2.5	2.5	80	3.4	2.9	12	35	20.8	6.8	3.4	98	12.0	3.4	2.4	18	80	10.4	3.4	2.9
					W	20	100	2.8	2.8	65	3.7	3.2	14	26	24.2	7.9	3.9	72	14.0	3.9	2.8	20	65	11.5	3.7	3.2
Cylindra T255LED 45W LED, 3000K Narrow Flood	NFL	23°	50000	11495	MH	8	180	3.3	3.3	117	4.4	3.8	4	90	6.9	7.4	3.3	254	4.0	3.4	2.3	6	207	3.5	3.3	2.8
					FC	10	115	4.1	4.1	75	5.5	4.7	5	57	8.7	9.3	4.1	163	5.0	4.2	2.9	8	117	4.6	4.4	3.8
					L	12	80	4.9	4.9	52	6.6	5.6	6	40	10.4	11.2	4.9	113	6.0	5.1	3.5	10	75	5.8	5.5	4.7
					W	14	59	5.7	5.7	38	7.7	6.6	7	29	12.1	13.0	5.7	83	7.0	5.9	4.0	12	52	6.9	6.6	5.6
					W	16	45	6.5	6.5	29	8.8	7.5	8	22	13.9	14.9	6.5	64	8.0	6.8	4.6	14	38	8.1	7.7	6.6
Cylindra T255LED 45W LED, 3000K Flood	FL	44°	50000	3205	MH	6	184	3.8	3.8	119	5.3	4.4	3	92	5.2	10.9	3.8	260	3.0	4.2	2.7	5	172	2.9	4.4	3.7
					FC	7	135	4.4	4.4	88	6.1	5.1	4	52	6.9	14.5	5.1	146	4.0	5.6	3.6	6	119	3.5	5.3	4.4
					L	8	103	5.1	5.1	67	7.0	5.9	5	33	8.7	18.2	6.3	94	5.0	7.1	4.5	7	88	4.0	6.1	5.1
					W	9	82	5.7	5.7	53	7.9	6.6	6	23	10.4	21.4	7.6	65	6.0	8.5	5.4	8	67	4.6	7.0	5.9
					W	10	66	6.3	6.3	43	8.8	7.3	7	17	12.1	**	8.9	48	7.0	9.9	6.3	9	53	5.2	7.9	6.6

* For 2700K fixtures, use 0.93 multiplier; for 4000K fixtures, use 1.08 multiplier. ** Due to steep aiming angle, length of beam extends beyond 25'.

Accessories

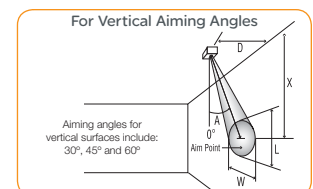
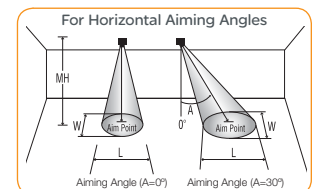
Cat. No.	Description
T579BL	Cube Cell Louver
T571-6	Color Filters
T5718	Color Correction Filter ¹
T5721	Uniformity Lens
T5777	Prismatic Spread Lens
T5778	Linear Spread Lens
TR1-CL-SP	Reflector-Spot
TR1-CL-NFL	Reflector-Narrow Flood
TR1-CL-FL	Reflector-Flood

¹ T5718 corrects 3000K color to approximately 2700K and 4000K color to approximately 3400K.

Notes and Definitions

- CBCP** – Center Beam Candlepower
- A** – Aiming angle of fixture/lamp, measured from 0° vertical
- MH** – Vertical distance from the fixture/lamp to the horizontal surface
- FC** – Footcandles at beam center (aim point)
- L** – Length of beam²
- W** – Width of beam²
- D** – Distance from fixture/lamp to wall³
- X** – Vertical distance to the center of the beam measured from ceiling³

² The beam spread in degrees and the beam "L" and "W" in the following tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination."
³ 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) (0.577 for 30°, 1.0 for 45°, 1.732 for 60°)



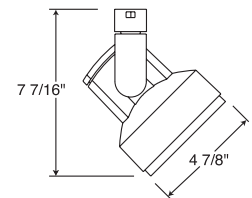
Juno Cyindra T253LED Series



The compact Juno Cyindra T253LED is an aesthetic masterpiece that offers unsurpassed performance and operating efficiencies. The 22-watt fixture provides brilliant illumination while reducing energy consumption by about 70%. The LED driver is cleverly concealed within the housing enabling the fixture to appear no larger than its PAR30 halogen counterpart. The Cyindra T253LED is offered in three beam spreads, three color temperatures and three finishes. Each fixture comes complete with an integral bayonet-mount accessory holder that is designed to hold up to two light control accessories.

Ordering Information Examples: T253LED-27K-SP-BL, T253LED-3D-NFL-WH

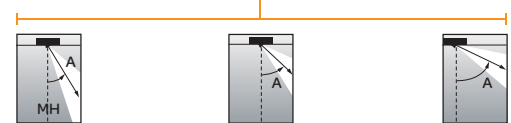
Series	Color Temperature	Dimming Compatibility	Beam Spread	Finish
T253LED 22W Cyindra LED	27 – 2700K 3 – 3000K 4 – 4100K	K – Not Dimmable D – Dimmable	SP – Spot NFL – Narrow Flood FL – Wide Flood	BL – Black SL – Silver WH – White



Horizontal Aiming Angles



Vertical Aiming Angles



Lamp	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
Cylindra T253LED 22W LED, 3000K Spot	SP	10°	50000	20688	8	323	1.4	1.4	210	1.9	1.6	4	162	6.9	2.9	1.4	457	4.0	1.4	1.0	6	373	3.5	1.4	1.2
					10	207	1.7	1.7	134	2.3	2.0	6	72	10.4	4.3	2.1	203	6.0	2.1	1.5	9	166	5.2	2.1	1.8
					12	144	2.1	2.1	93	2.8	2.4	8	40	13.9	5.7	2.8	114	8.0	2.8	2.0	12	93	6.9	2.8	2.4
					14	106	2.4	2.4	69	3.3	2.8	10	26	17.3	7.2	3.5	73	10.0	3.5	2.5	15	60	8.7	3.5	3.0
					16	81	2.8	2.8	52	3.7	3.2	12	18	20.8	8.6	4.2	51	12.0	4.2	3.0	18	41	10.4	4.2	3.6
Cylindra T253LED 22W LED, 3000K Narrow Flood	NFL	23°	50000	5119	4	320	1.6	1.6	208	2.2	1.9	2	160	3.5	3.7	1.6	452	2.0	1.7	1.2	4	208	2.3	2.2	1.9
					6	142	2.4	2.4	92	3.3	2.8	3	71	5.2	5.6	2.4	201	3.0	2.5	1.7	6	92	3.5	3.3	2.8
					8	80	3.3	3.3	52	4.4	3.8	4	40	6.9	7.4	3.3	113	4.0	3.4	2.3	8	52	4.6	4.4	3.8
					10	51	4.1	4.1	33	5.5	4.7	5	26	8.7	9.3	4.1	72	5.0	4.2	2.9	10	33	5.8	5.5	4.7
					12	36	4.9	4.9	23	6.6	5.6	6	18	10.4	11.2	4.9	50	6.0	5.1	3.5	12	23	6.9	6.6	5.6
Cylindra T253LED 22W LED, 3000K Wide Flood	FL	53°	50000	1139	3	127	3.0	3.0	82	4.3	3.5	2	36	3.5	**	4.0	101	2.0	5.3	2.8	2	185	1.2	2.9	2.3
					4	71	4.0	4.0	46	5.8	4.6	3	16	5.2	**	6.0	45	3.0	8.0	4.2	3	82	1.7	4.3	3.5
					5	46	5.0	5.0	30	7.2	5.8	4	9	6.9	**	8.0	25	4.0	10.6	5.6	4	46	2.3	5.8	4.6
					6	32	6.0	6.0	21	8.7	6.9	5	6	8.7	**	10.0	16	5.0	13.3	7.1	5	30	2.9	7.2	5.8
					7	23	7.0	7.0	15	10.1	8.1	6	4	10.4	**	12.0	11	6.0	15.9	8.5	6	21	3.5	8.7	6.9

* For 2700K fixtures, use 0.95 multiplier; for 4100K fixtures, use 1.1 multiplier. ** Due to steep aiming angle, length of beam extends beyond 25'.

Accessories

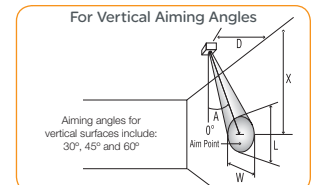
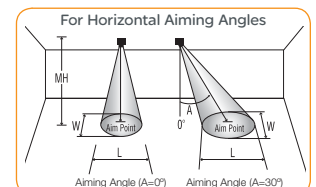
Cat. No.	Description
T569BL	Cube Cell Louver
T561-6	Color Filters
T5618	Color Correction Filter ²
T5621	Uniformity Lens
T5677	Prismatic Spread Lens
T5678	Linear Spread Lens

² T5618 corrects 3000K color to approximately 2700K and 4100K color to approximately 3500K.

Notes and Definitions

- CBCP** – Center Beam Candlepower
- A** – Aiming angle of fixture/lamp, measured from 0° vertical
- MH** – Vertical distance from the fixture/lamp to the horizontal surface
- FC** – Footcandles at beam center (aim point)
- L** – Length of beam³
- W** – Width of beam³
- D** – Distance from fixture/lamp to wall⁴
- X** – Vertical distance to the center of the beam measured from ceiling⁴

³ The beam spread in degrees and the beam "L" and "W" in the following tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination."
⁴ 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) (0.577 for 30°, 1.0 for 45°, 1.732 for 60°)



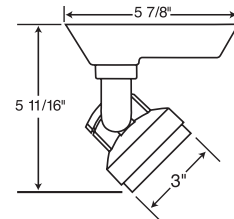
Juno Cylindra T251LED Series

The Juno Cylindra T251LED translates the unique Cylindra styling into a smaller, 15-watt fixture. Sold as a complete fixture, the T251LED driver is factory-assembled; there is nothing to order separately. The Cylindra T251LED is offered in three beam spreads, three color temperatures and three finishes. Each fixture comes complete with an integral bayonet-mount accessory holder that is designed to hold up to one light control accessory. The standard T251LED is fully dimmable using high quality forward phase and reverse phase dimmers.



Ordering Information Examples: T251LED-27K-SP-BL, T251LED-3K-NFL-WH

Series	Color Temperature	Beam Spread	Finish
T251LED 15W Cylindra LED	27K – 2700K 3K – 3000K 4K – 4100K	SP – Spot NFL – Narrow Flood FL – Flood	BL – Black SL – Silver WH – White

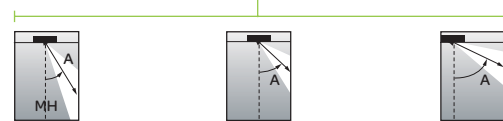


The T251LED comes with factory assembled driver as shown here.

Horizontal Aiming Angles



Vertical Aiming Angles



Lamp	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
Cylindra T251LED 15W LED, 3000K Spot	SP	14°	50000	6132	4	383	1.0	1.0	249	1.3	1.1	3	85	5.2	3.1	1.5	241	3.0	1.5	1.0	4	249	2.3	1.3	1.1
					6	170	1.5	1.5	111	2.0	1.7	4	48	6.9	4.1	2.0	135	4.0	2.0	1.4	6	111	3.5	2.0	1.7
					8	96	2.0	2.0	62	2.6	2.3	5	31	8.7	5.1	2.5	87	5.0	2.5	1.7	8	62	4.6	2.6	2.3
					10	61	2.5	2.5	40	3.3	2.8	6	21	10.4	6.2	2.9	60	6.0	3.0	2.1	10	40	5.8	3.3	2.8
					12	43	2.9	2.9	28	3.9	3.4	7	16	12.1	7.2	3.4	44	7.0	3.5	2.4	12	28	6.9	3.9	3.4
Cylindra T251LED 15W LED, 3000K Narrow Flood	NFL	25°	50000	2457	4	154	1.8	1.8	100	2.4	2.0	2	77	3.5	4.2	1.8	217	2.0	1.9	1.3	4	100	2.3	2.4	2.0
					6	68	2.7	2.7	44	3.6	3.1	3	34	5.2	6.2	2.7	97	3.0	2.8	1.9	6	44	3.5	3.6	3.1
					8	38	3.5	3.5	25	4.8	4.1	4	19	6.9	8.3	3.5	54	4.0	3.7	2.5	8	25	4.6	4.8	4.1
					10	25	4.4	4.4	16	6.0	5.1	5	12	8.7	10.4	4.4	35	5.0	4.7	3.1	10	16	5.8	6.0	5.1
					12	17	5.3	5.3	11	7.2	6.1	6	9	10.4	12.5	5.3	24	6.0	5.6	3.8	12	11	6.9	7.2	6.1
Cylindra T251LED 15W LED, 3000K Flood	FL	38°	50000	1295	3	144	2.1	2.1	93	2.9	2.4	1	162	1.7	4.3	1.4	458	1.0	1.6	1.0	2	210	1.2	1.9	1.6
					4	81	2.8	2.8	53	3.8	3.2	2	40	3.5	8.6	2.8	114	2.0	3.1	1.9	3	93	1.7	2.9	2.4
					5	52	3.4	3.4	34	4.8	4.0	3	18	5.2	12.8	4.1	51	3.0	4.7	2.9	4	53	2.3	3.8	3.2
					6	36	4.1	4.1	23	5.7	4.8	4	10	6.9	17.1	5.5	29	4.0	6.3	3.9	5	34	2.9	4.8	4.0
					7	26	4.8	4.8	17	6.7	5.6	5	6	8.7	21.4	6.9	18	5.0	7.8	4.9	6	23	3.5	5.7	4.8

* For 2700K fixtures, use 0.95 multiplier; for 4100K fixtures, use 1.1 multiplier.

Accessories

Cat. No.	Description
T7459BL	Hexcell Louver
T741-6	Color Filters
T7401-16	Dichroic Filters
T7418	Color Correction Filter ²
T7420	Diffusion Lens
T7421	Uniformity Lens
T7477	Prismatic Spread Lens
T7478	Linear Spread Lens

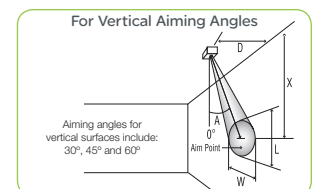
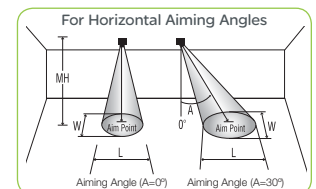
² T7418 corrects 3000K color to approximately 2700K and 4100K color to approximately 3500K.

Notes and Definitions

- CBCP** – Center Beam Candlepower
- A** – Aiming angle of fixture/lamp, measured from 0° vertical
- MH** – Vertical distance from the fixture/lamp to the horizontal surface
- FC** – Footcandles at beam center (aim point)
- L** – Length of beam³
- W** – Width of beam³
- D** – Distance from fixture/lamp to wall⁴
- X** – Vertical distance to the center of the beam measured from ceiling⁴

³ The beam spread in degrees and the beam "L" and "W" in the following tables are computed at 50% of centerbeam candlepower and represent areas of "effective illumination."

⁴ 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): 0.577 for 30°, 1.0 for 45°, 1.732 for 60°





The ultimate retail lighting solution

Juno Cylindra LED fixtures are versatile performers in a wide variety of commercial and residential applications. But nothing outshines them for retail illumination. Available in 15-watt, 22-watt and 45-watt models with three beam spreads and a choice of 2700K, 3000K, 3500K (45-watt model only) or 4000K/4100K color temperatures, they are ideal for merchandise and display lighting. The illumination is bright-white and consistent, the color rendering exceptionally accurate. The absence of UV emissions protects sensitive merchandise from fading. And the elimination of projected heat not only reduces A/C costs, but also leads to a more comfortable environment overall.

Energy savings, reduced maintenance, outstanding color, designed and engineered in the USA... Juno Cylindra LED is the clear choice.



Spot



Narrow Flood



Flood



Spot



Narrow Flood



Wide Flood

Optical systems

The Juno Cylindra LED Series is available in three beam spreads: spot, narrow flood, and flood. In each of the models, the beam spread is soft, gradual and uniform. The reflectors used in the T255LED (top photo) are interchangeable in the field allowing simple conversion between beam spreads; the T251LED and T253LED (bottom photo) use TIR optics which are permanently affixed to the LED light source.

> For more information on Juno® Cylindra™ LED trac lighting, please visit us at www.junolightinggroup.com.

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