



T24-TUBL-SP-30K-WH



T24-TUBL-SP-30K-BK

DESCRIPTION:

The Tubo Large is a 15 watt, 24VDC LED Track Head with four changeable optic reflectors, 3000K-1800K (Warm Dim) or Standard 3000K, 98 CRI with R9-98 Integral LED chip. The fixture design is of a flat-back tube heat sink that swivels 90° vertically and 360° horizontally. The 24 Low Voltage Track Connector allows you to choose the mounting system from TS24 Surface Mount Track, TR24 Recessed Track, or Pipeline Track Low Voltage Systems. The small package of Tubo Large Track Head offers to consumers maximum light output with a low wattage.

FINISH & MATERIAL:

- Finished in Black or White Powdered Paint
- Cast Aluminum
- Tilt: 90°
- Rotation: 360°

MOUNTING OPTIONS:

Mounts to any T24 (24VDC track) including TS24 Surface Track, TR24 Recessed Track, or Pipeline Track (P1CTR Surface or P1STR Suspension)

REFLECTORS:

Field changeable single optic reflector gives a smooth uniform beam at 15°, 25°, 40° or 60° beam spreads

APPLICATIONS:

Suitable for damp or dry locations, interior use only

INTEGRAL LED LAMP:

- 24K Standard Dim 14.37 Watts at 1324 Lumens, CRI:92, Rf:91, Rg:99
- 27K Standard Dim 14.36 Watts at 1181 Lumens, CRI:97, Rf:93, Rg:98
- 30K Standard Dim 14 Watts at 1317 Lumens, CRI:92, Rf:91, Rg:98
- 30K Warm Dim (30D) 14.5 Watts at 1037 Lumens, Color Temperature dims from 3000K to 1800K CRI:98, Rf:94, Rg:100
- 35K Standard Dim 14.43 Watts at 1356 Lumens, CRI:97, Rf:94, Rg:101

POWER SUPPLY:

Remote Power Supply: 120V input/24VDC output (order track and power supply, sold separately)
 PSB-96W-010-24VDC or Universal Power Supplies, sold separately
 Frequency: 120HZ

DIMMING:

- Dimmable to 1% Percent, Flicker less than 2%
- 0-10 Volt dimming only. Compatible with Lutron Diva, Skylark and Legrand 0-10 Volt dimmers

ACCESSORIES:

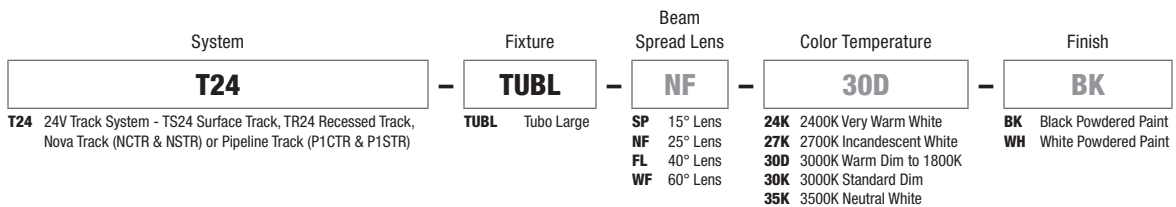
TUBO LARGE	ORDERING CODE
15° BEAM SPREAD	REF-1.75-SP
25° BEAM SPREAD	REF-1.75-NF
40° BEAM SPREAD	REF-1.75-FL
60° BEAM SPREAD	REF-1.75-WF

COMPLIANCE LABEL:

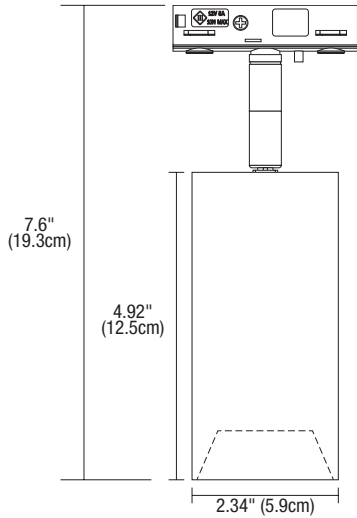
ETL (Conforms to UL1598 and CSA 22.2 #250.0). Title 24

WARRANTY:

5 year warranty. See PureEdgeLighting.com



PROJECT	FIXTURE TYPE	DATE
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LAMP DATA Lamp Data for Tubo Large LED T24 Track Head, 2400K

COLOR TEMP. (K)	WATTS	LUMENS	LUMENS PER WATT	INPUT VOLTAGE	CRI	BEAM ANGLE	LAMP LIFE	TM-30 DATA
2400K	14.37	1324.5	92	24VDC	92.4	40° (FL)	50,000 Hours 70% Lumen Maintenance	R9 = 60 Rf: 91 Rg: 99.6

LAMP DATA Lamp Data for Tubo Large LED T24 Track Head, 2700K

COLOR TEMP. (K)	WATTS	LUMENS	LUMENS PER WATT	INPUT VOLTAGE	CRI	BEAM ANGLE	LAMP LIFE	TM-30 DATA
2700K	14.36	1180.9	82.2	24VDC	97.3	40° (FL)	50,000 Hours 70% Lumen Maintenance	R9 = 97 Rf: 93.3 Rg: 98.8

LAMP DATA Lamp Data for Tubo Large LED T24 Track Head, 3000K, Static White

COLOR TEMP. (K)	WATTS	LUMENS	LUMENS PER WATT	INPUT VOLTAGE	CRI	BEAM ANGLE	LAMP LIFE	TM-30 DATA
3000K	14	1317	90.8	24VDC	92	40° (FL)	50,000 Hours 70% Lumen Maintenance	R9 = 57 Rf: 91 Rg: 98

LAMP DATA Lamp Data for Tubo Large LED T24 Track Head, 3000D Warm Dim

COLOR TEMP. (K)	WATTS	LUMENS	LUMENS PER WATT	INPUT VOLTAGE	CRI	BEAM ANGLE	LAMP LIFE	TM-30 DATA
3000K	14.45	1037	71.8	24VDC	98.2	40° (FL)	50,000 Hours 70% Lumen Maintenance	R9 = 90 Rf: 94.5 Rg: 100.3

LAMP DATA Lamp Data for Tubo Large LED T24 Track Head, 3500K

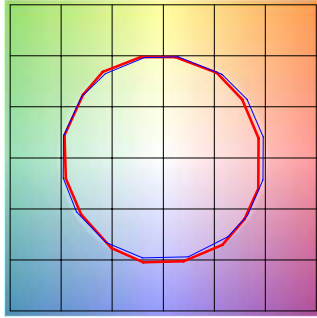
COLOR TEMP. (K)	WATTS	LUMENS	LUMENS PER WATT	INPUT VOLTAGE	CRI	BEAM ANGLE	LAMP LIFE	TM-30 DATA
3500K	14.43	1356.8	94	24VDC	97.5	40° (FL)	50,000 Hours 70% Lumen Maintenance	R9 = 92 Rf: 93.9 Rg: 100.9

PROJECT		FIXTURE TYPE		DATE	
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TM-30-15 DATA: The data below is for Tubo. Consistent color temperatures among multiple track heads is possible through a 3 phase binning process in which each order is inspected with a color meter to ensure uniformity.

2400K | Rf: 91 | Rg: 99.6

COLOR VECTOR GRAPHIC

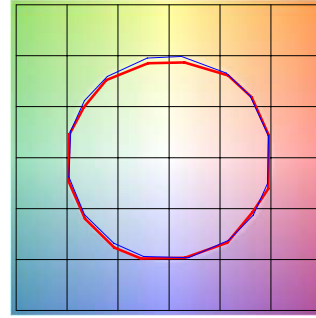


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	90.1	-4.6%	-0.3%
2	90.6	-4.0%	2.7%
3	88.6	-1.6%	5.1%
4	93.1	-0.9%	2.7%
5	94.6	1.1%	3.3%
6	94.6	2.9%	1.0%
7	94.1	-0.2%	-2.7%
8	97.1	-0.9%	-1.2%
9	94.5	-2.4%	1.0%
10	90.3	-2.5%	4.5%
11	88.6	1.5%	7.1%
12	89.2	4.1%	1.5%
13	90.6	3.4%	-5.3%
14	84.5	3.5%	-8.9%
15	92.3	-0.5%	-4.7%
16	85.4	-2.9%	-9.4%

2700K | Rf: 93.3 | Rg: 98.8

COLOR VECTOR GRAPHIC

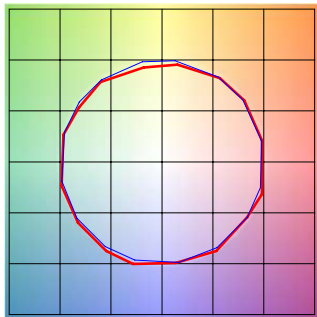


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	95.9	0.3%	0.7%
2	95.5	0.6%	-2.0%
3	93.7	-0.8%	-2.8%
4	89.8	-5.2%	-4.0%
5	93.1	-5.2%	0.2%
6	93.9	-2.4%	2.9%
7	89.0	-3.1%	5.5%
8	93.6	0.5%	3.7%
9	92.9	1.2%	3.8%
10	92.7	2.0%	3.9%
11	93.7	3.2%	2.9%
12	93.7	2.7%	1.8%
13	94.9	-0.7%	-3.4%
14	94.7	1.3%	-2.4%
15	92.9	-2.1%	2.0%
16	92.2	1.7%	-5.0%

3000K | Rf: 91 | Rg: 98

COLOR VECTOR GRAPHIC

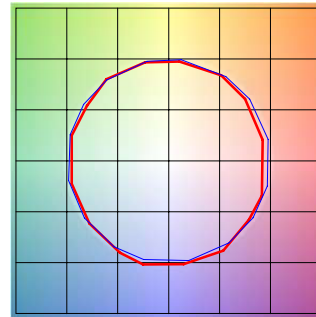


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	96.4	-0.2%	0.4%
2	97.7	0.3%	-0.5%
3	96.5	0.2%	-0.0%
4	95.5	-2.0%	-1.3%
5	93.8	-3.7%	0.6%
6	96.9	0.6%	1.4%
7	93.3	-1.4%	2.6%
8	97.6	0.7%	0.9%
9	94.4	0.7%	3.4%
10	92.1	1.1%	4.2%
11	91.6	2.7%	4.5%
12	92.0	4.7%	-0.4%
13	95.2	1.2%	-2.7%
14	93.1	3.4%	-3.2%
15	92.5	0.3%	-1.3%
16	90.1	2.4%	-6.9%

3000D | Rf: 94.5 | Rg: 100.3

COLOR VECTOR GRAPHIC

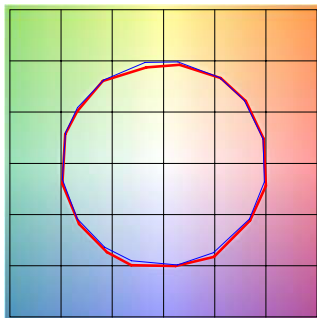


■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	88.7	-5.3%	0.5%
2	90.7	-3.6%	2.8%
3	89.4	-1.7%	4.6%
4	93.3	-2.1%	1.4%
5	94.6	-0.8%	2.2%
6	96.2	0.6%	-0.2%
7	92.5	-3.4%	-0.9%
8	96.4	-1.7%	0.5%
9	92.0	-2.4%	3.7%
10	87.3	-1.1%	7.1%
11	87.6	1.7%	8.2%
12	89.2	4.8%	0.4%
13	90.6	2.5%	-5.7%
14	86.7	3.3%	-9.0%
15	90.9	-2.4%	-3.9%
16	84.1	-3.5%	-10.3%

3500K | Rf: 93.9 | Rg: 100.9

COLOR VECTOR GRAPHIC



■ Test ■ Reference

HUE BIN	Rf	GRAPHIC SHIFTS %	
		CHROMA	HUE
1	95.7	0.6%	0.3%
2	96.7	0.8%	-1.2%
3	96.0	0.2%	-1.0%
4	94.3	-2.5%	-1.9%
5	93.2	-4.8%	-0.2%
6	97.1	-0.3%	1.4%
7	93.8	-1.7%	3.2%
8	97.3	0.2%	1.3%
9	93.3	0.8%	4.2%
10	91.4	1.4%	5.2%
11	90.6	2.8%	4.5%
12	92.6	4.4%	3.0%
13	96.3	0.7%	-1.9%
14	93.9	3.6%	-1.8%
15	92.4	1.2%	-0.9%
16	91.5	2.3%	-3.3%

PROJECT	FIXTURE TYPE	DATE
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