



Up-shine® Lighting



Technical Application Guide for UP-SHINE LED Track Light

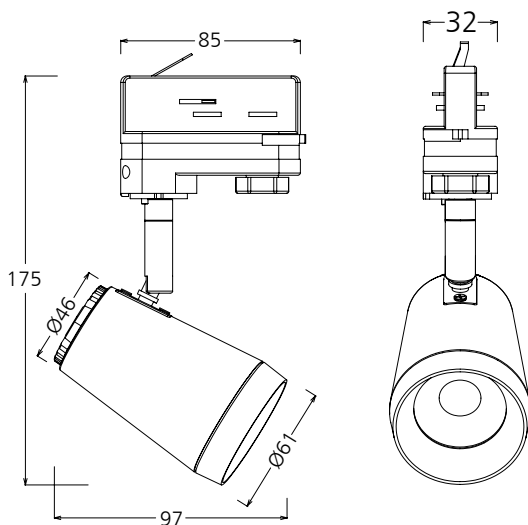
UP-TL19D-10W

A white, adjustable track spotlight. It features a cylindrical body with a black mounting arm and a silver-colored base. The light source is a COB LED chip visible through a clear lens. The mounting arm is black and has a silver-colored base. The body is white and has a silver-colored base. The light source is a COB LED chip visible through a clear lens.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- 36°/60° beam angle
- CCT: 2700K 3000K
4000K 5000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

- IP20 for indoor use only
- Professional electrician for installation only
- Switch off before installation
- Do not touch when in use
- Keep away from hot steam and corrosive gas

It is suitable for supermarket, specialty store, show window, exhibition hall; focus lighting, decorative and background lighting, where attention is focused on subjects to emphasize special visual points.



CE RoHS SAA APPROVALS*



Product Information

Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable
UP-TL19D-10W	AC230V	10W	≥0.9	920	36°/60°	2700K	40000h	≥80	No
UP-TL19D-10W	AC230V	10W	≥0.9	990	36°/60°	3000K	40000h	≥80	No
UP-TL19D-10W	AC230V	10W	≥0.9	1040	36°/60°	4000K	40000h	≥80	No
UP-TL19D-10W	AC230V	10W	≥0.9	1050	36°/60°	5000K	40000h	≥80	No
UP-TL19D-10W-D	AC230V	10W	≥0.9	950	36°/60°	2700K	40000h	≥80	Yes
UP-TL19D-10W-D	AC230V	10W	≥0.9	955	36°/60°	3000K	40000h	≥80	Yes
UP-TL19D-10W-D	AC230V	10W	≥0.9	1010	36°/60°	4000K	40000h	≥80	Yes
UP-TL19D-10W-D	AC230V	10W	≥0.9	1055	36°/60°	5000K	40000h	≥80	Yes

Driver data Sheet

Driver data	DIM	Non-dim
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC220-240V	AC220-240V
Efficiency	≥79%	≥78%
Total load Wattage	10W±0.5W	10W±0.5W
Power Factor	≥0.9	≥0.9
Rated input current	≤0.06A	≤0.12A
Full load output Voltage	DC28-38V	DC23-40V
Rated output current	230mA	250mA
Output current range	230mA±5%	250mA±5%
Power tolerance	±5%	±5%
Current output tolerance	±5%	±5%
Dimming range	8%-100%	--
Dimmer	Triac dimmers	--
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	PASS
THD	<20%	<18%
Withstand voltage	AC1500V	AC1500V

Fixture Compatibility

Rated Wattage	Electrical Classification	Ingress Protection	Operating Temp	Operating Humidity	Storage Temp
10W	I	IP20	-20°C~45°C	0~90%	-20°C~65°C

2700K

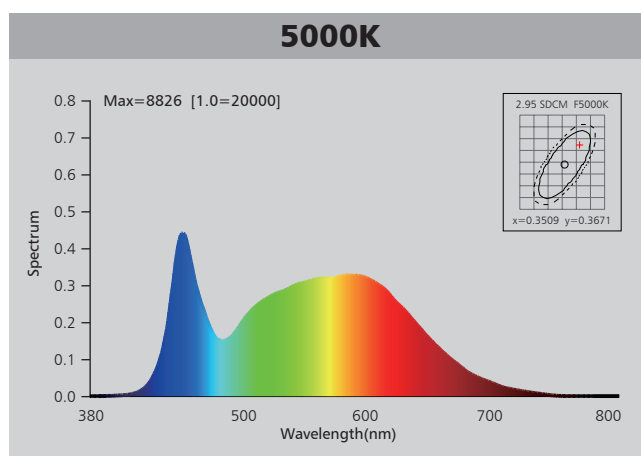
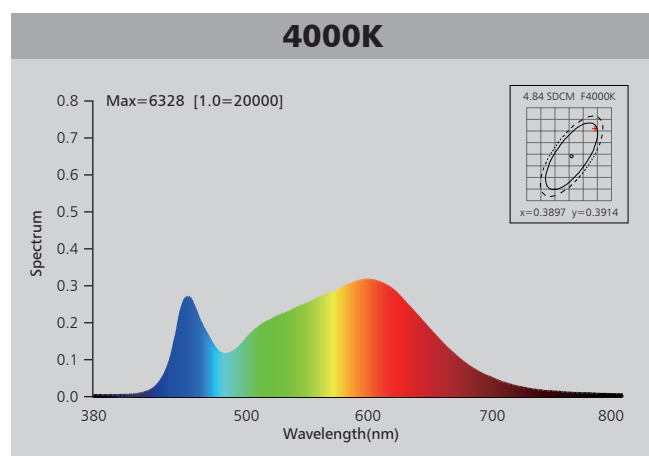
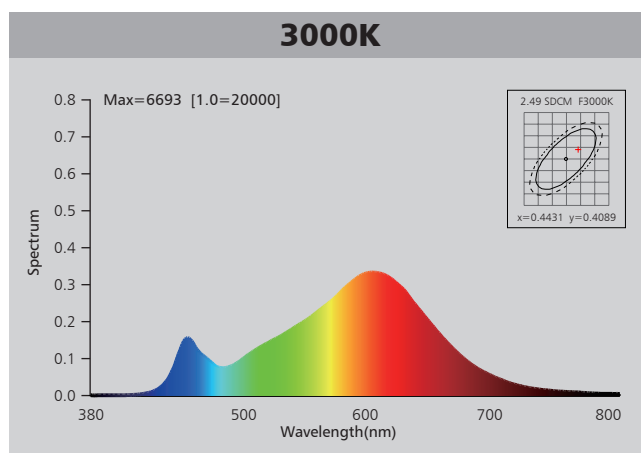
Max=6418 [1.0=20000]

Spectrum

Wavelength(nm)

2.91 SDCM F2700K

$x=0.4639$ $y=0.4151$



2700K

Polar intensity diagram

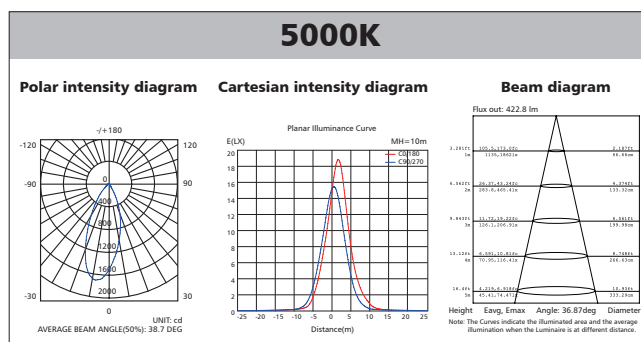
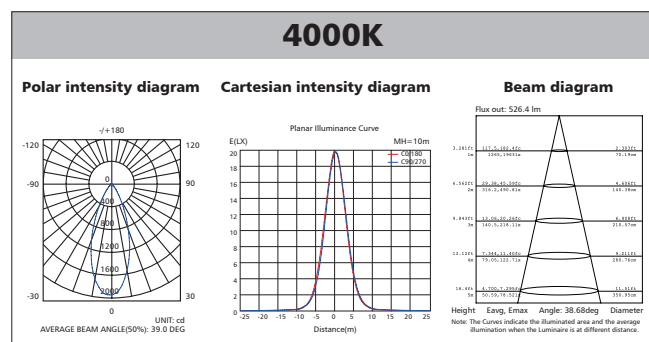
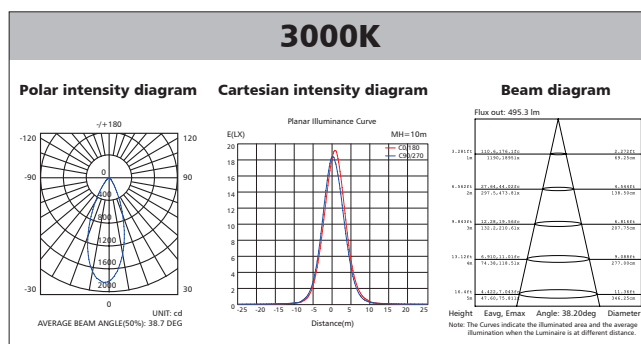
Beam spread: 38.4 DEG
Average Beam Angle (50%): 38.4 DEG

Cartesian intensity diagram

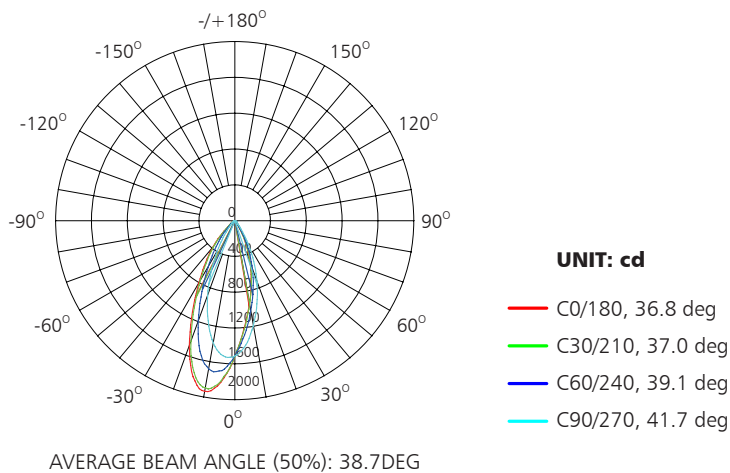
Beam spread: 38.4 DEG
Average Beam Angle (50%): 38.4 DEG

Beam diagram

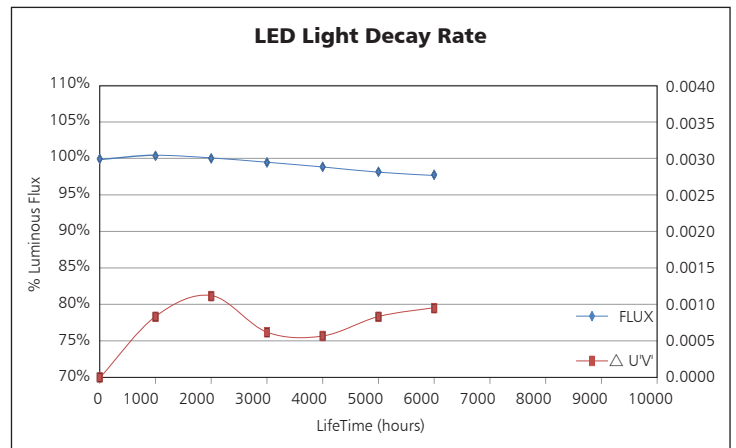
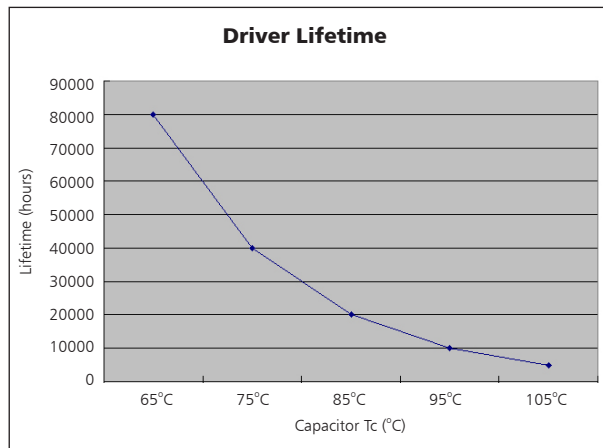
Beam spread: 38.4 DEG
Average Beam Angle (50%): 38.4 DEG



Polar Diagram Comparison

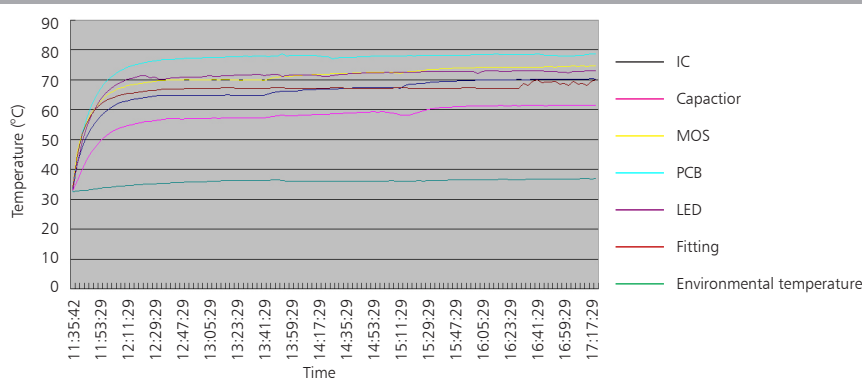


Driver lifetime & LED light decay rate



Temperature

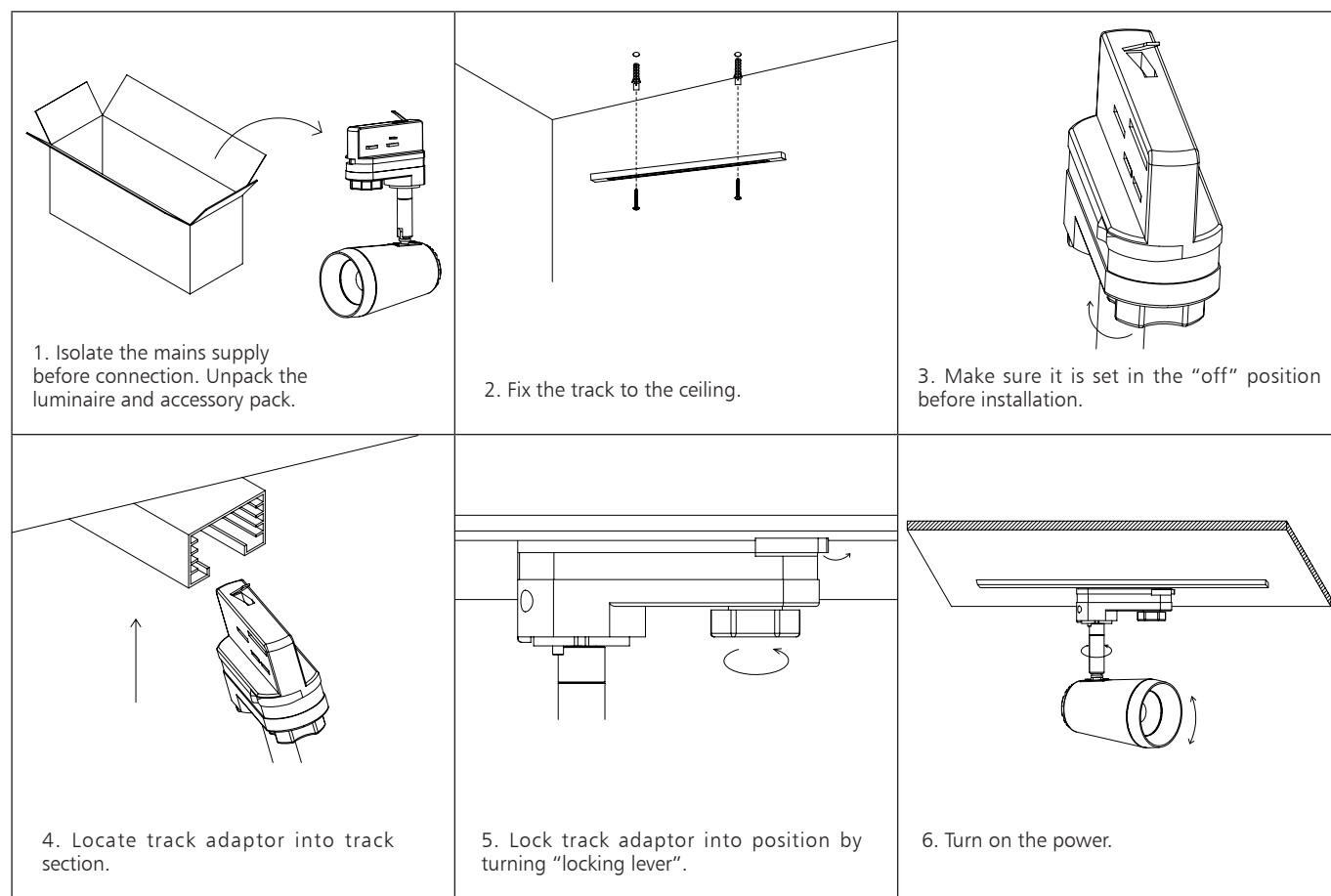
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



The driver lifespan is based on capacitor working temperature.



Installation



Packaging Information

	SIZE(CM)	N.W/pc (KGS)	G.W.(KGS)	Q'TY(PCS)
Carton	29.5*27.5*58	0.3	10	24

	CTNS	Q'TY(PCS)	VOLUME(CBM)
20" standard container	582	13968	28
40" standard container	1164	27936	56

