



Up-shine[®] Lighting



Technical Application Guide for UP-SHINE LED Track Light

UP-TL20D-10W

Introduction



Up-shine Track Light adopts die-casting ADC12 with excellent heat dissipation. CRI80 and high efficient COB led chip to assure that high center luminous intensity. It is designed with high transmittance optical lens, maximum utilization of light output. Adjustable lighting orientation with 340 degree in horizontal direction and 0-90 degree in vertical direction. Dimmable available, compatible with a wide range of recommended Triac dimmers. Lamp with surface mounted, track adaptor and recessed installations, can meet different demands and easy to install.

- 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

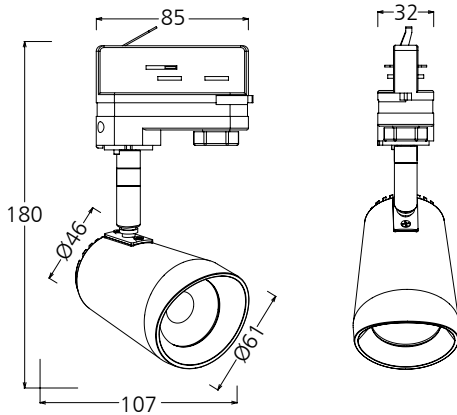
Application notes

- 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

Application Areas

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.

Certificate



Product Information

Technical Specifications

Model	Voltage	Power	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable
UP-TL20D-10W	AC230V	10W	≥0.9	920	36°/60°	2700K	40000h	≥80	No
UP-TL20D-10W	AC230V	10W	≥0.9	990	36°/60°	3000K	40000h	≥80	No
UP-TL20D-10W	AC230V	10W	≥0.9	1040	36°/60°	4000K	40000h	≥80	No
UP-TL20D-10W	AC230V	10W	≥0.9	1050	36°/60°	5000K	40000h	≥80	No
UP-TL20D-10W-D	AC230V	10W	≥0.9	950	36°/60°	2700K	40000h	≥80	Yes
UP-TL20D-10W-D	AC230V	10W	≥0.9	955	36°/60°	3000K	40000h	≥80	Yes
UP-TL20D-10W-D	AC230V	10W	≥0.9	1010	36°/60°	4000K	40000h	≥80	Yes
UP-TL20D-10W-D	AC230V	10W	≥0.9	1055	36°/60°	5000K	40000h	≥80	Yes

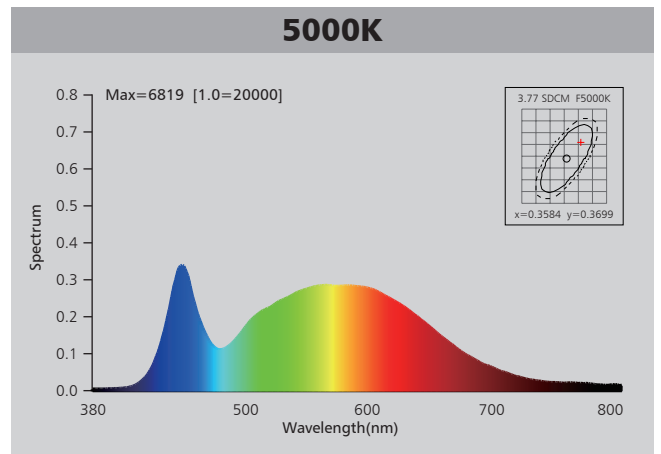
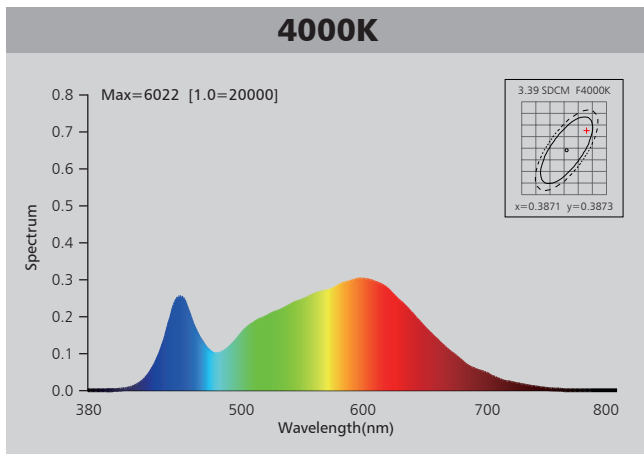
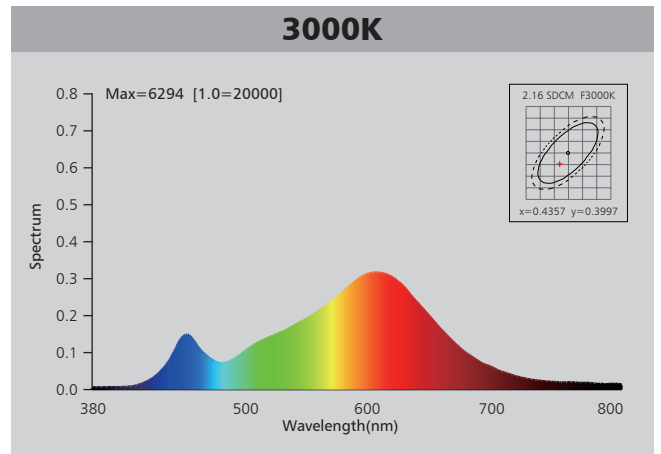
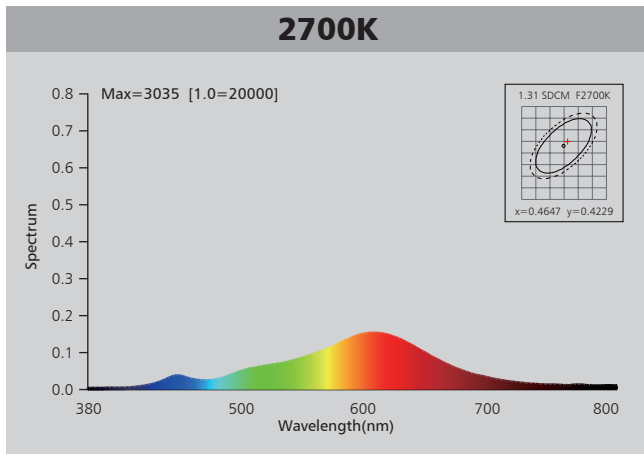
Driver data Sheet

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

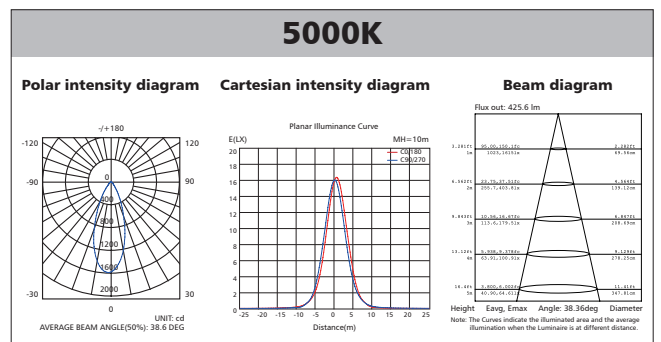
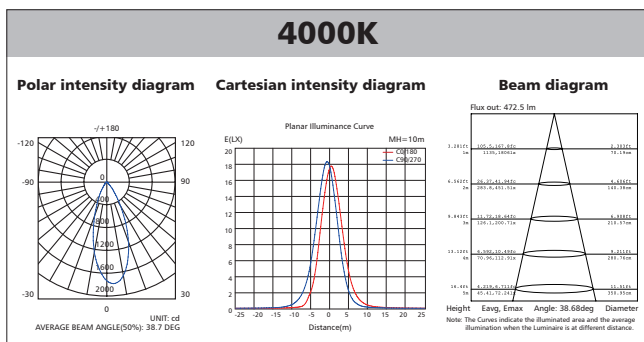
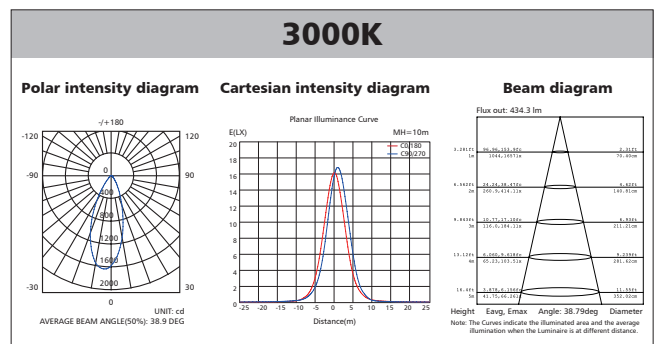
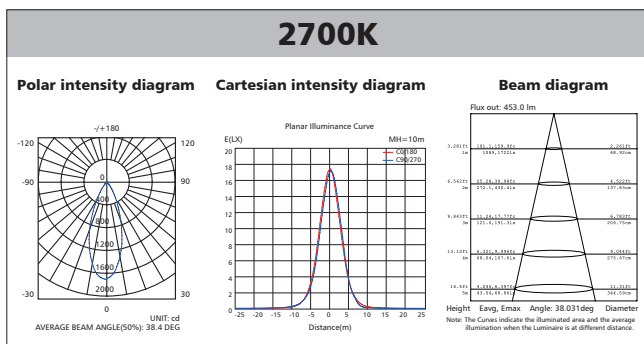
Fixture Compatibility

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

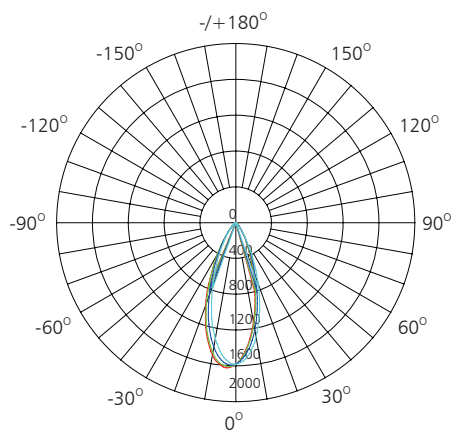
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



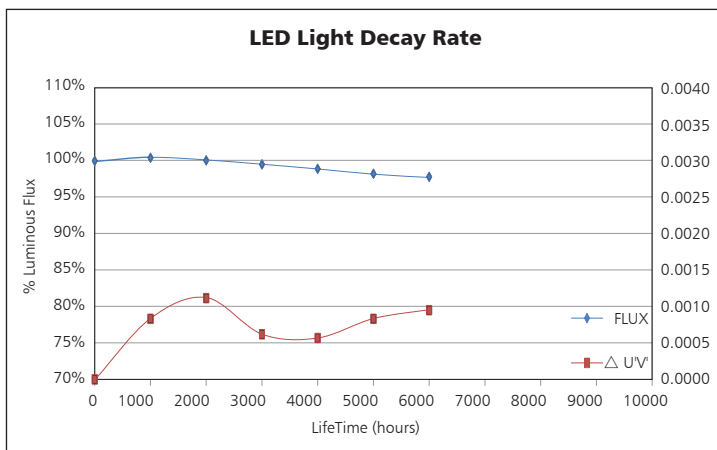
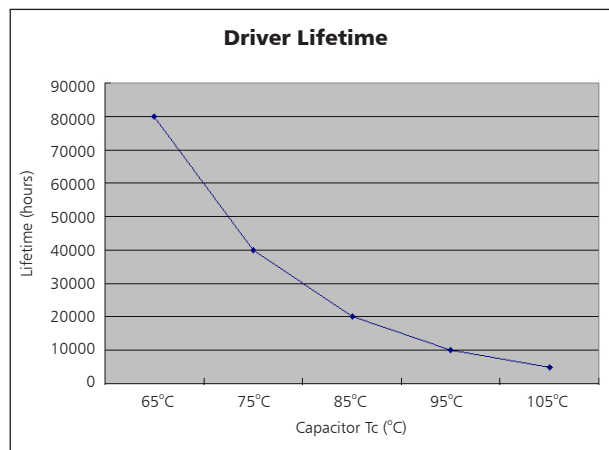
UNIT: cd

- C0/180, 38.4 deg
- C30/210, 38.6 deg
- C60/240, 38.7 deg
- C90/270, 38.6 deg

AVERAGE BEAM ANGLE (50%): 38.6DEG

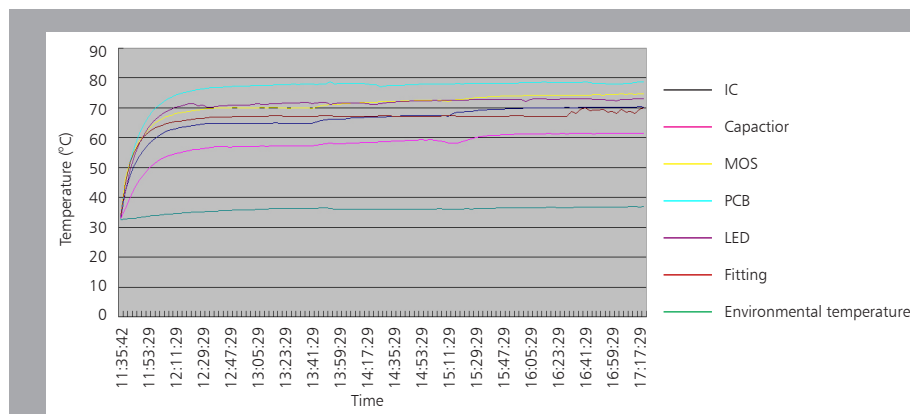


Driver lifetime & LED light decay rate



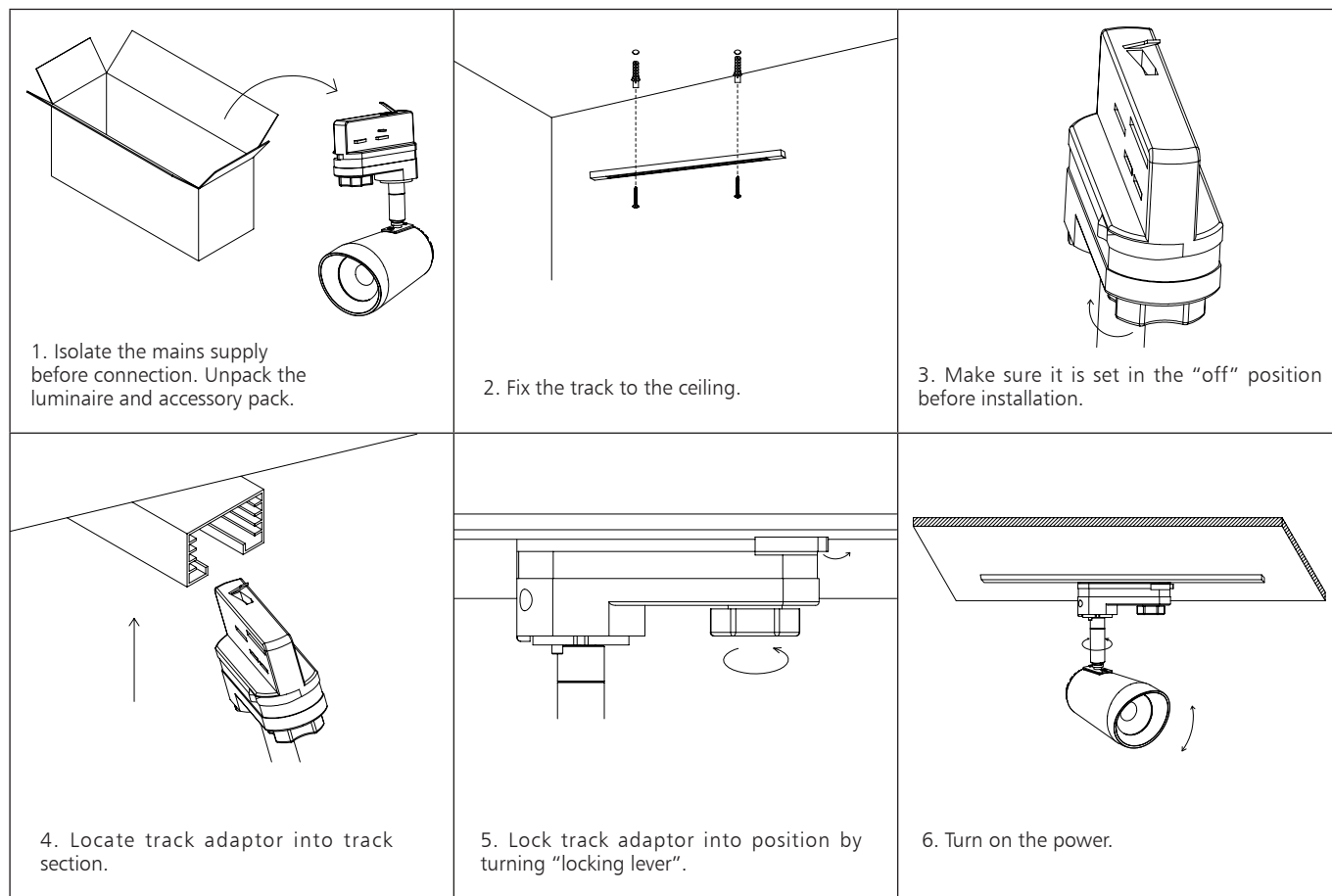
Temperature

- 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	0.28	9.2	24

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

