



SPEC SHEET FOR TRACKLIGHTS

GR-TL02-12W

Introduction



GREEN RAY track light adopts high lumen CITIZEN LEDs with excellent color rendering index to increase the color fidelity of the target illuminated object. It provides excellent heat dissipation and even light output without glare or dark spot. Adjustable lighting orientation with 360 degree in horizontal direction and 180 in vertical direction provided. 1-circuit adapter, 3-circuit adapter are all available.

- Up to 70% energy saving compared to standard CFL
- Long lifetime of 40,000 hours
- 15° 30° 45° 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

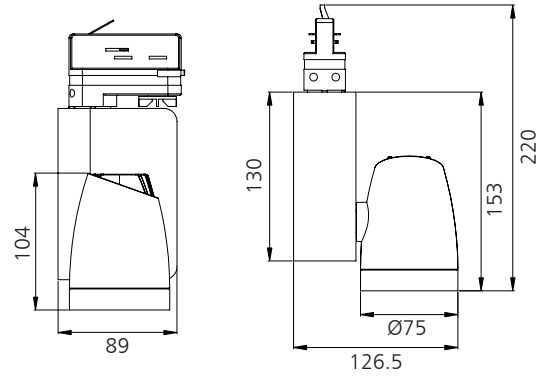
Application Areas

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 (±10%) | Beam angle | CCT | Lifespan | CRI | Dimmable | Dimension |
|-------------|------------|-------|--------------|--------------|-------------|-------|----------|-----|----------|----------------|
| GR-TL02-12W | AC100-240V | 12W | ≥0.9 | 1230 | 15°/30°/45° | 2700K | 40000h | ≥80 | No | 126.5*89*220mm |
| GR-TL02-12W | AC100-240V | 12W | ≥0.9 | 1290 | 15°/30°/45° | 3000K | 40000h | ≥80 | No | 126.5*89*220mm |
| GR-TL02-12W | AC100-240V | 12W | ≥0.9 | 1380 | 15°/30°/45° | 4000K | 40000h | ≥80 | No | 126.5*89*220mm |
| GR-TL02-12W | AC100-240V | 12W | ≥0.9 | 1350 | 15°/30°/45° | 5000K | 40000h | ≥80 | No | 126.5*89*220mm |

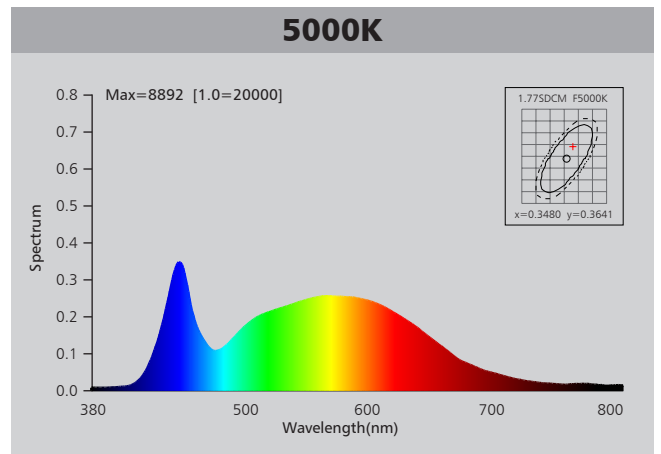
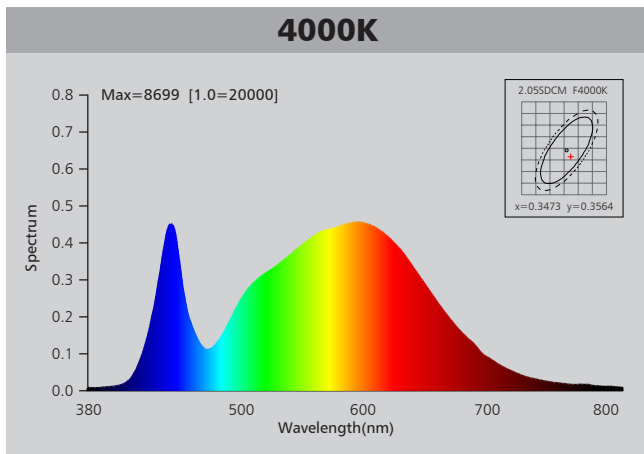
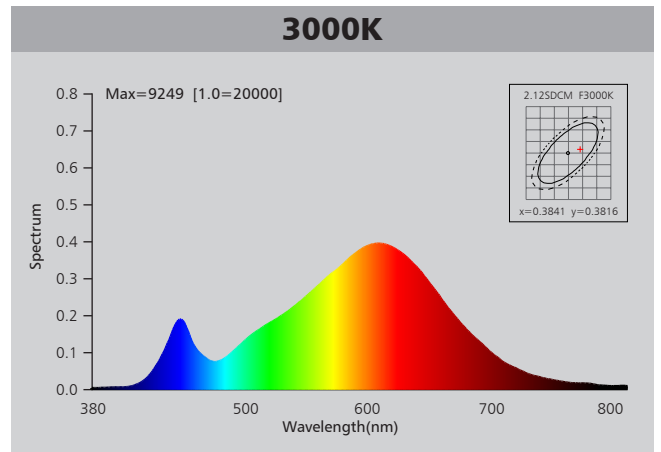
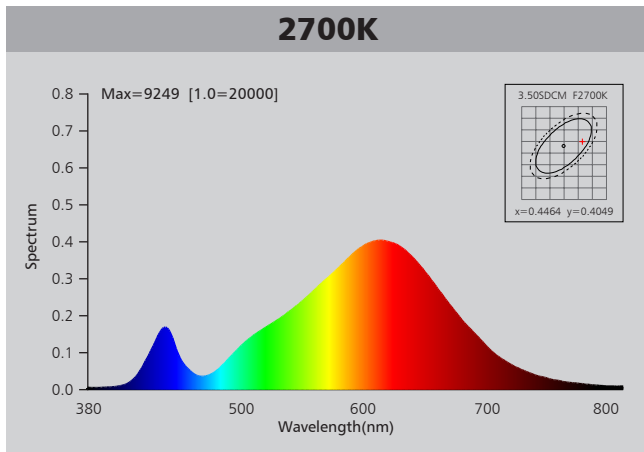
Driver data Sheet

| Driver data | Non-dim |
|-----------------------------|------------|
| Input rated Voltage | AC100-240V |
| Frequency | 50/60HZ |
| Input Voltage | AC85-265V |
| Efficiency | ≥83% |
| Total load Wattage | 12W±1W |
| Power Factor | ≥0.9 |
| Rated input current | ≤0.15A |
| Full load output Voltage | DC30-40V |
| Rated output current | 280mA |
| Output current range | 280mA±5% |
| Power tolerance | ±5% |
| Current output tolerance | ±5% |
| Short circuit protection | PASS |
| Over voltage protection | PASS |
| Over temperature protection | PASS |
| Withstand voltage | AC1500V |

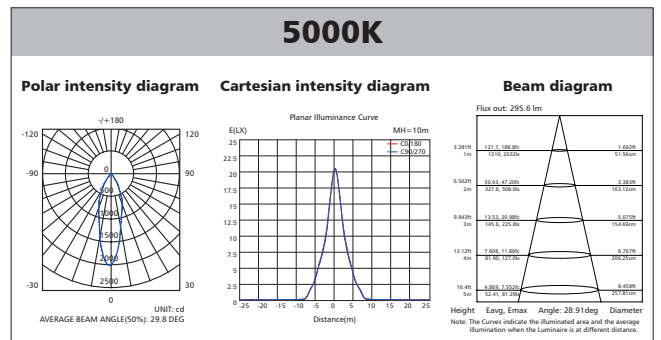
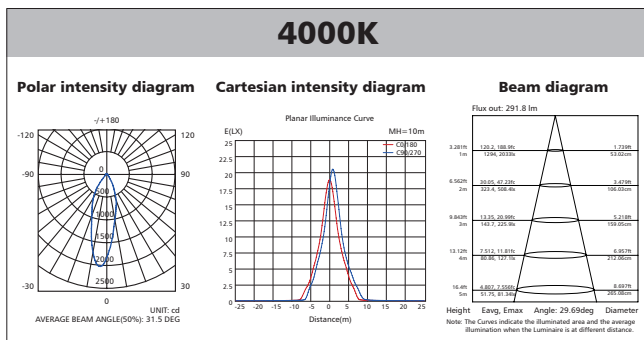
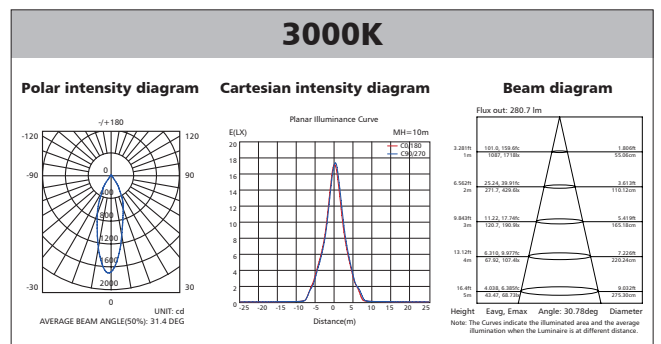
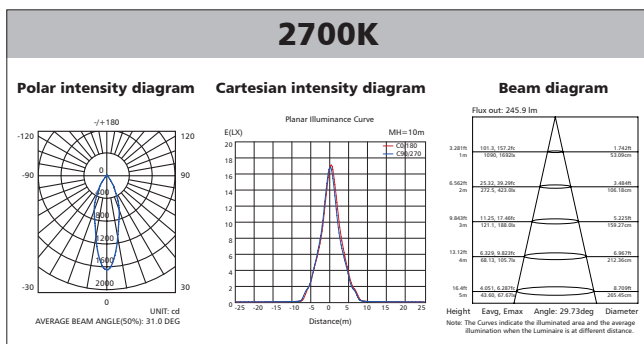
Fixture Compatibility

| Rated Wattage | Electrical Classification | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---------------|---------------------------|--------------------|----------------|--------------------|--------------|
| 12W | I | IP20 | -20°C~45°C | 0~90% | -20°C~65°C |

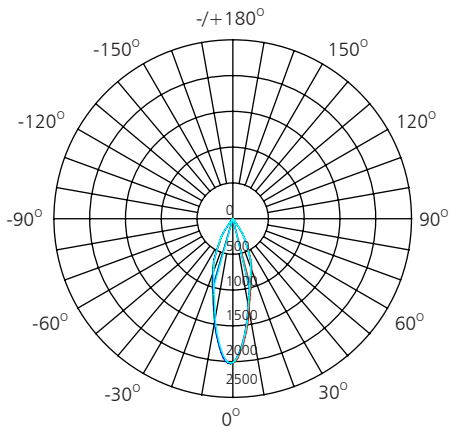
Spectral Distribution



Photometric Diagram



Polar Diagram Comparison



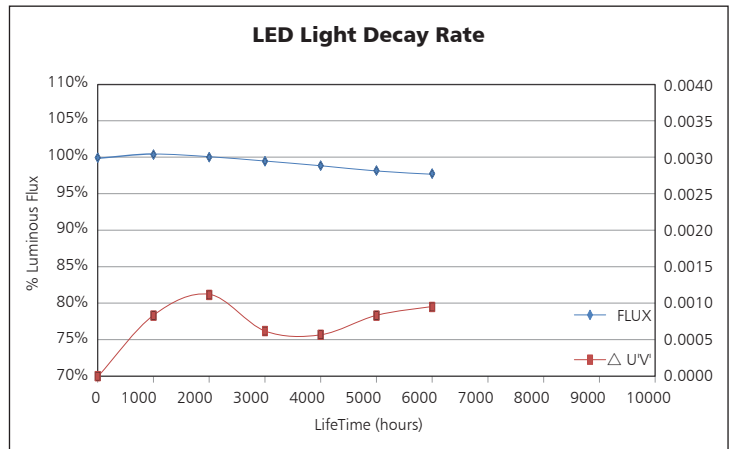
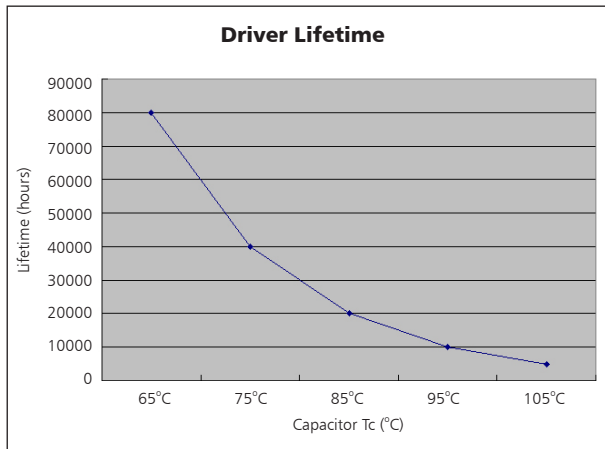
UNIT: cd

- C0/180, 30.9 deg
- C30/210, 30.2 deg
- C60/240, 29.4 deg
- C90/270, 28.9 deg

AVERAGE BEAM ANGLE (50%): 29.8DEG



Driver lifetime & LED light decay rate



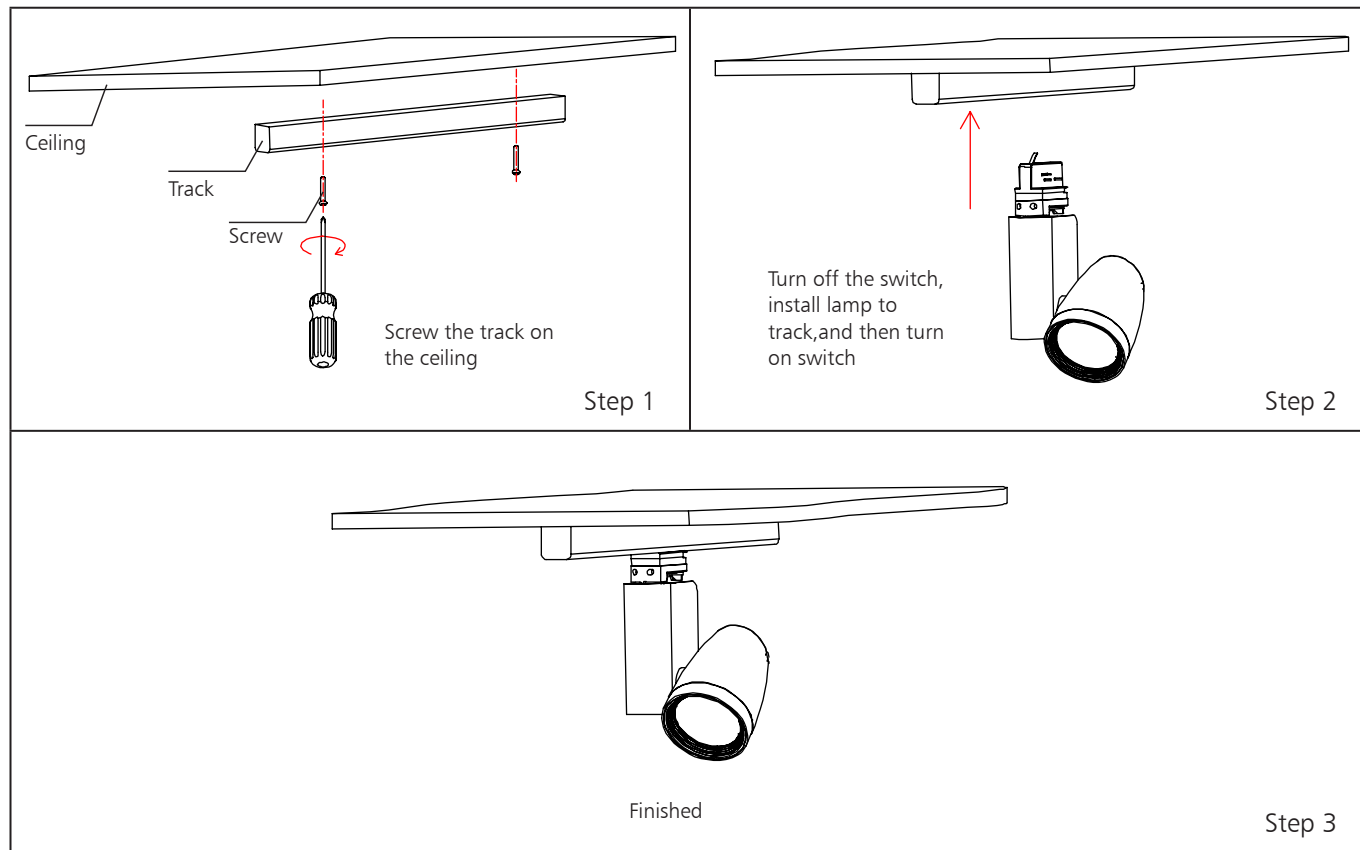
Temperature

- 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

| Time | IC | Capacitor | MOS | PCB | LED | Fitting | Environmental |
|----------|----|-----------|-----|-----|-----|---------|---------------|
| 9:57:19 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 10:09:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 10:21:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 10:33:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 10:45:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 10:57:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 11:09:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 11:21:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 11:33:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 11:45:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 11:57:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 12:09:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 12:33:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 12:45:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 12:57:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 13:09:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 13:21:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 13:33:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 13:45:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 13:57:15 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |

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 | 54*49.5*24.5 | 0.7 | 11.1 | 12 |

| | CTNS | Q'TY(PCS) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20" standard container | 420 | 5040 | 28 |
| 40" standard container | 840 | 10080 | 56 |

