



UPSHINE<sup>®</sup>



Technical Application  
Guide for UP-SHINE  
LED Tube Light  
UP-T86W600-R

# Introduction



Up-shine AL+PC LED Tube light adopts LM-80 2835 SMD LED with high brightness and slight light decay. Excellent cooling system with  $>0.8\text{mm}$  thickness AL6063 aluminum heatsink. Clear or frosted cover optional. V0 fire-rated PC cover, up to 95% light transmittance. Reliable LED driver with branded high quality capacitor and IC solution ensures excellent working performance.

- Up to 70% energy saving compared to traditional tube
- Long lifetime of 40,000 hours
- $120^\circ$  wide beam angle
- 600mm length
- CCT: 3000K 4000K  
5000K 5700K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

## Application notes

- IP20 for indoor use
- 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

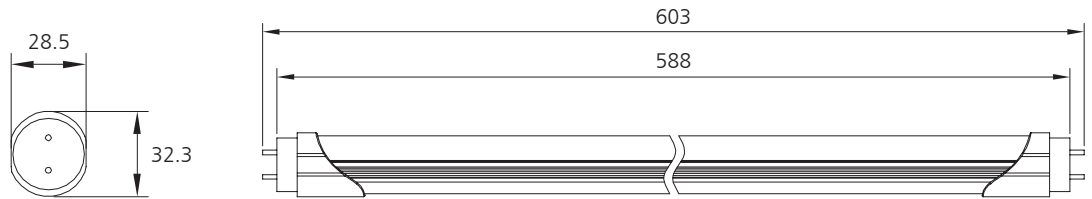
Suitable for commercial and residential applications like offices, supermarkets, shops, schools, hotels, restaurants, workshop, warehouse, homes etc.

## Certificates

CE RoHS SAA



# Product Information



## Technical Specifications

| Model        | Voltage    | Power | Power Factor | Lumen (±5%) | Beam angle | CCT   | Lifespan | CRI | Dimmable | Dimension          |
|--------------|------------|-------|--------------|-------------|------------|-------|----------|-----|----------|--------------------|
| UP-T86W600-R | AC100-240V | 6W    | ≥0.9         | 850         | 120°       | 3000K | 40000h   | ≥80 | No       | L603*W28.5*H32.3mm |
| UP-T86W600-R | AC100-240V | 6W    | ≥0.9         | 900         | 120°       | 4000K | 40000h   | ≥80 | No       | L603*W28.5*H32.3mm |
| UP-T86W600-R | AC100-240V | 6W    | ≥0.9         | 910         | 120°       | 5000K | 40000h   | ≥80 | No       | L603*W28.5*H32.3mm |
| UP-T86W600-R | AC100-240V | 6W    | ≥0.9         | 920         | 120°       | 5700K | 40000h   | ≥80 | No       | L603*W28.5*H32.3mm |

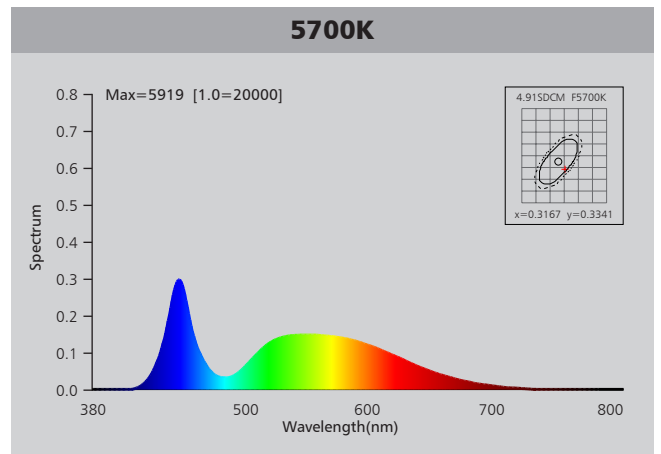
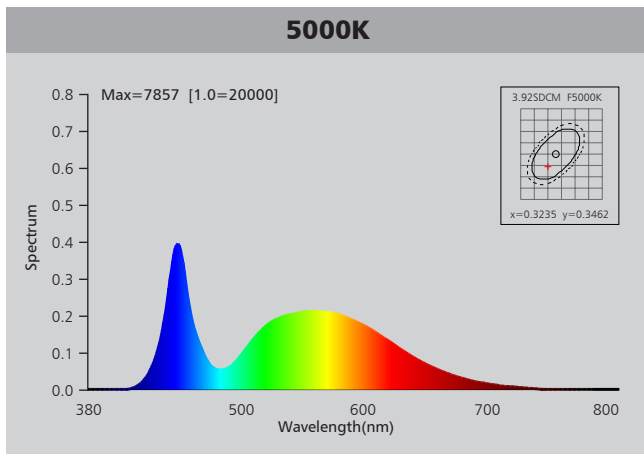
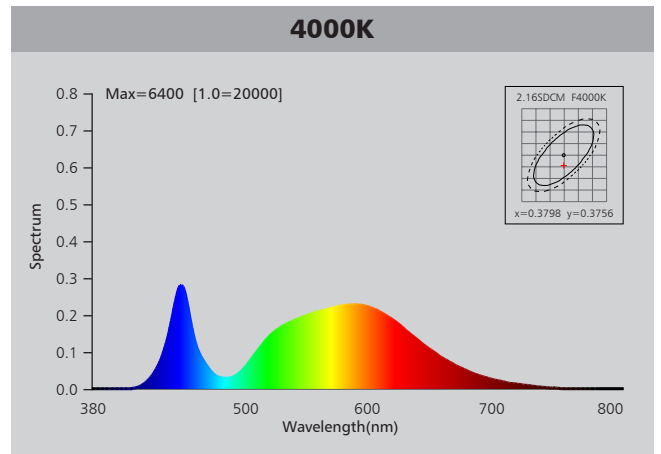
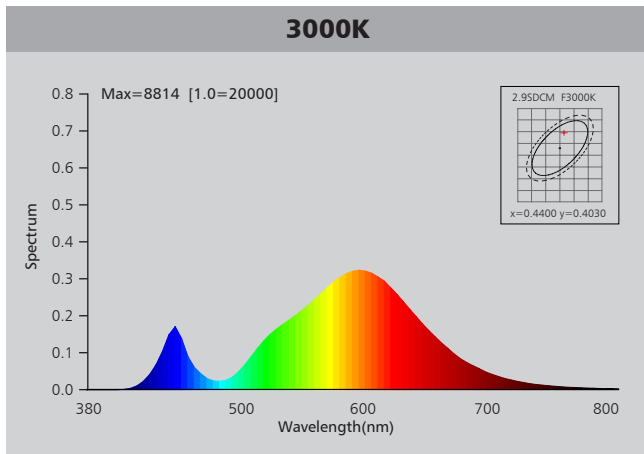
## Driver data Sheet

| Driver data                 | Non-dim    |
|-----------------------------|------------|
| Input rated Voltage         | AC100-240V |
| Frequency                   | 50/60HZ    |
| Input Voltage               | AC85-265V  |
| Efficiency                  | ≥85%       |
| Total load Wattage          | 6W±0.5W    |
| Power Factor                | ≥0.9       |
| Rated input current         | ≤0.07A     |
| Full load output Voltage    | DC64-73V   |
| Rated output current        | 80mA       |
| Output current range        | 80mA±5%    |
| Power tolerance             | ±5%        |
| Current output tolerance    | ±5%        |
| Short circuit protection    | PASS       |
| Over voltage protection     | PASS       |
| Over temperature protection | PASS       |

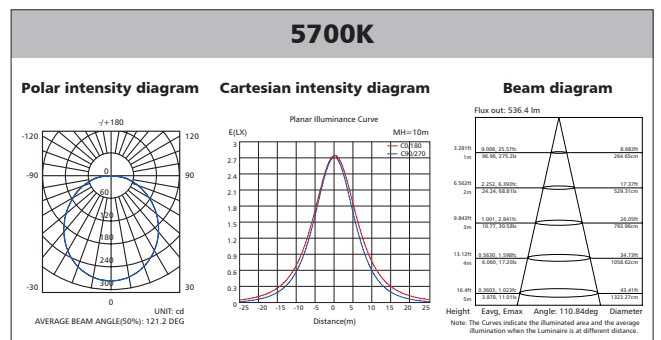
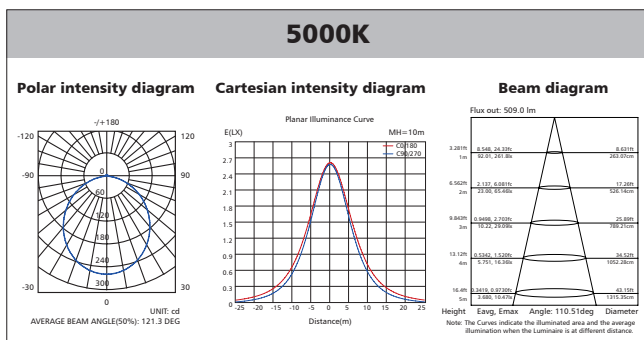
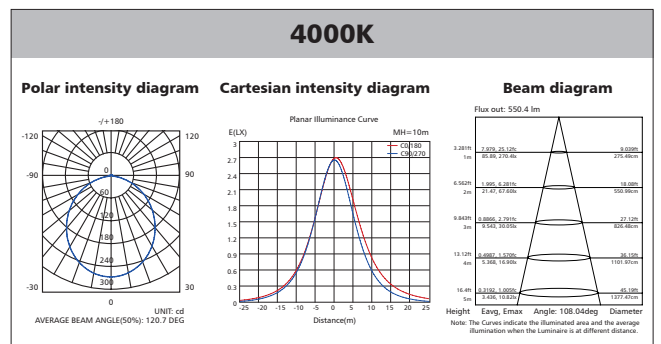
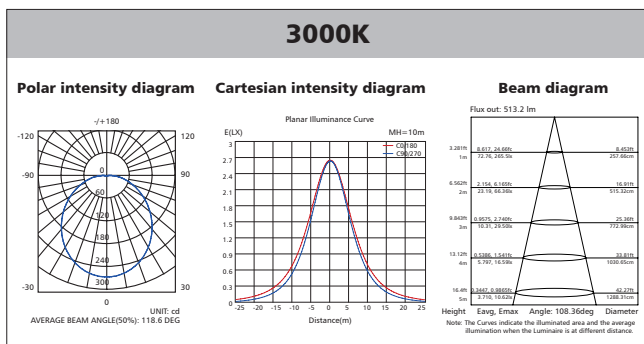
## Fixture Compatibility

| Rated Wattage | Electrical Classification | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---------------|---------------------------|--------------------|----------------|--------------------|--------------|
| 6W            | II                        | IP20               | -20°C~45°C     | 0~90%              | -20°C~65°C   |

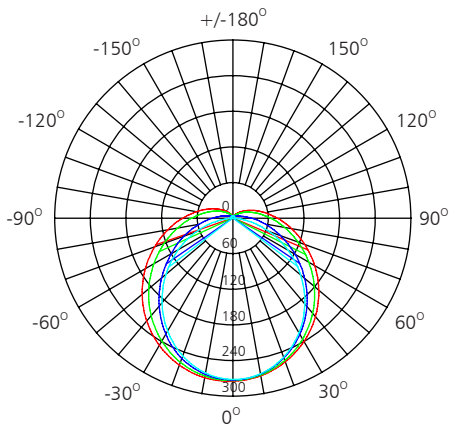
# Spectral Distribution



# Photometric Diagram



# Polar Diagram Comparison



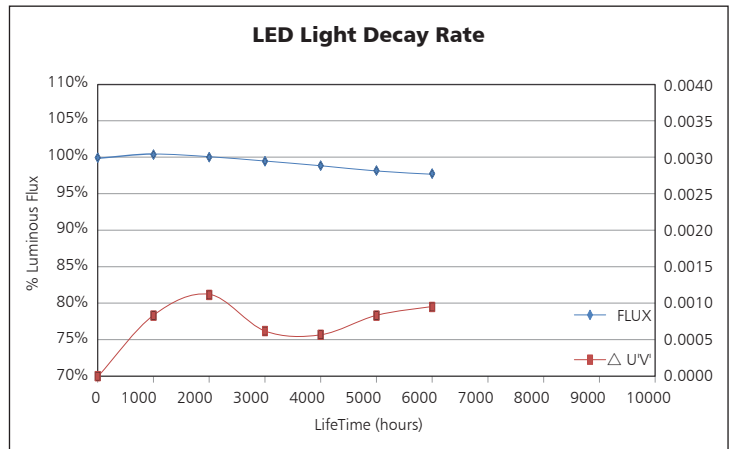
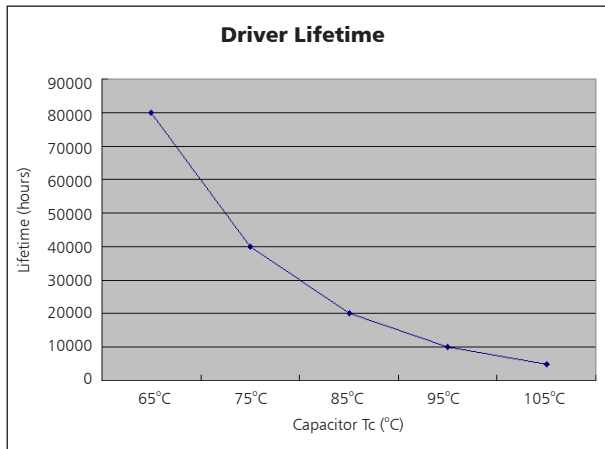
UNIT: cd

- C0/180, 138.1 deg
- C30/210, 129.1 deg
- C60/240, 111.5 deg
- C90/270, 106.1 deg

AVERAGE BEAM ANGLE (50%): 121.2DEG

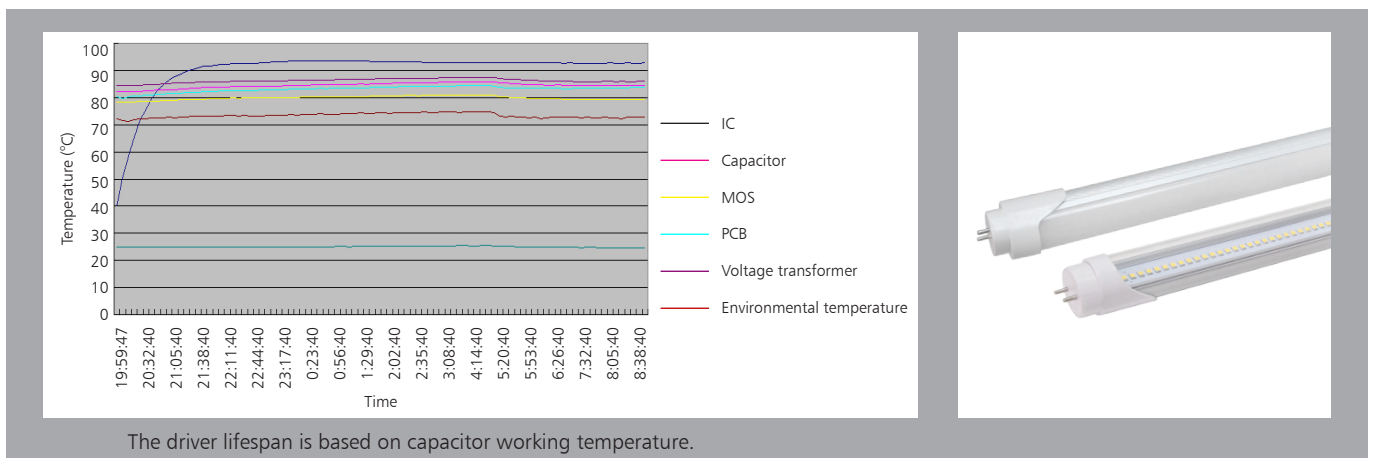


# Driver lifetime & LED light decay rate



# Temperature

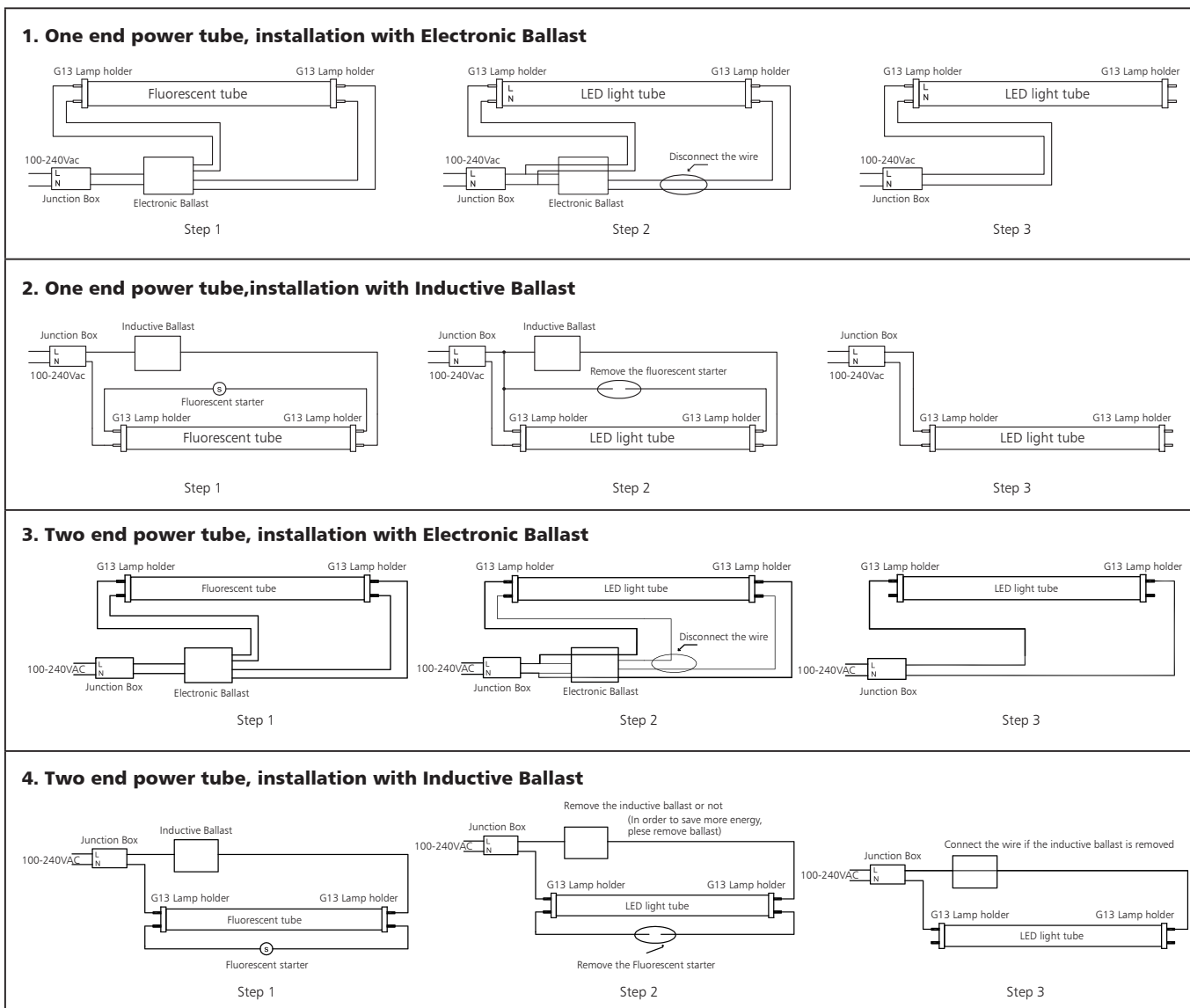
- The testing is operated at 25°C
- The lifetime of capacitor, minimum of 5,000 hours if operated at 105°C, will be doubled whenever the temperature drops 10°C
- The highest withstand temperature of IC, MOS could be 120°C
- The highest withstand temperature of LED junction temperature is 150°C



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 | 69.3*21*21 | 0.18         | 8.0       | 25        |

|                        | CTNS | Q'TY(PCs) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20" standard container | 875  | 21875     | 28          |
| 40" standard container | 1750 | 43750     | 56          |

