



Up-shine[®] Lighting



Technical Application
Guide for UP-SHINE
LED Troffer

UP-GL603603-36W-D-D

Introduction



New LED troffer light adopts secondary optical designed and special treatment diffuser to achieve more uniform and softer light, provides more comfortable visual experience. Luminous efficiency 110lm/w (4000K 5000K). 0-10v dimming & flicker free versions are both available. Powder spraying surface treatment is employed in the lamp fixture which makes the lamp corrosion resistant. Designed for grid ceiling commercial applications, can be used in damp places.

- Up to 80% energy saving compared to standard CFL
- Long lifetime of 50,000 hours
- 0-10V dim
- 78° wide beam angle
- CCT: 3000K 4000K 5000K
- No UV/IR light
- Environment friendly, without Mercury or any other hazardous substances

Application notes

- 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

Office & school lighting: office, meeting room, class room etc.

Commercial lighting: shopping mall, super market, retailer shops etc.

Other situations: hospital, laboratory, dust-free workshop etc.

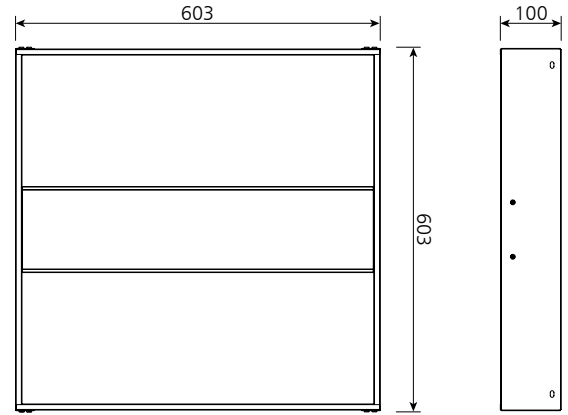
Certificates



RoHS



Product Information



Technical Specifications

| Model | Voltage | Power | Power Factor | Lumen (±5%) | Beam angle | CCT | Lifespan | CRI | Dimmable | Dimension |
|---------------------|------------------|-------|--------------|-------------|------------|-------|----------|-----|----------|---------------|
| UP-GL603603-36W-D-D | AC100-240V(277V) | 36W | ≥0.9 | 3600 | 78° | 3000K | 50000h | ≥85 | Yes | 603*603*100mm |
| UP-GL603603-36W-D-D | AC100-240V(277V) | 36W | ≥0.9 | 3980 | 78° | 4000K | 50000h | ≥85 | Yes | 603*603*100mm |
| UP-GL603603-36W-D-D | AC100-240V(277V) | 36W | ≥0.9 | 3996 | 78° | 5000K | 50000h | ≥85 | Yes | 603*603*100mm |

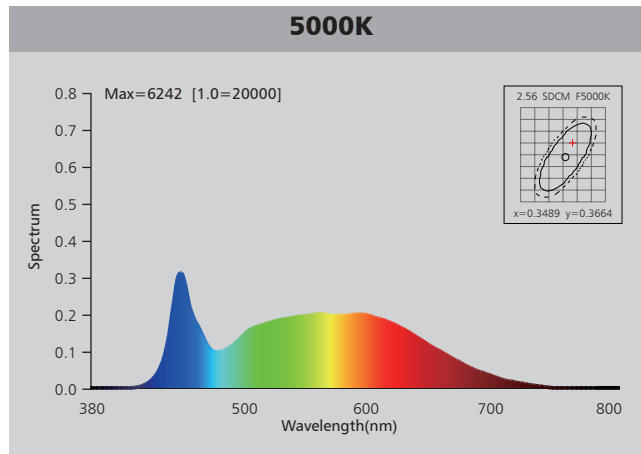
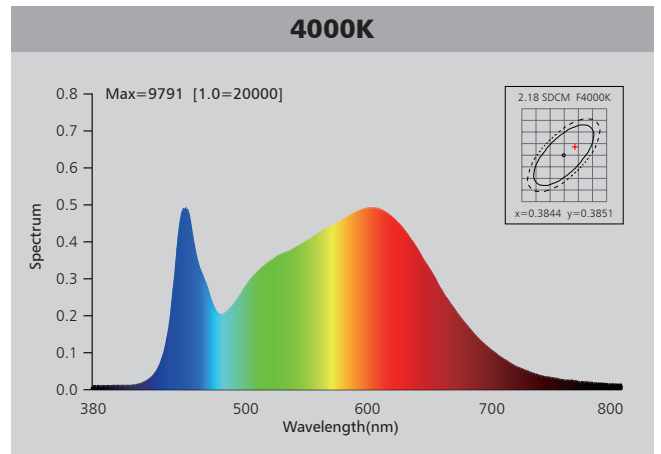
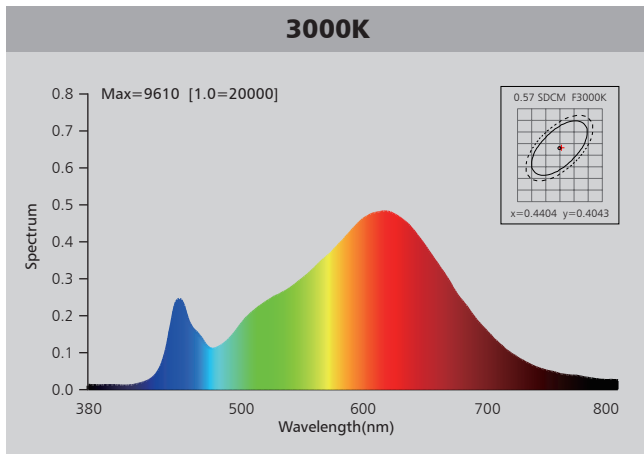
Driver data Sheet

| Driver data | DIM |
|-----------------------------|------------------|
| Input rated Voltage | AC100-240V(277V) |
| Frequency | 50/60Hz |
| Input Voltage | AC90-305V |
| Efficiency | ≥88% |
| Total load Wattage | 36W±5% |
| Power Factor | ≥0.9 |
| Rated input current | ≤0.4A |
| Full load output Voltage | DC25-40V |
| Rated output current | 950mA |
| Output current range | 950mA±5% |
| Power tolerance | ±5% |
| Current output tolerance | ±5% |
| Dimming range | 8%-100% |
| Dimmer | 0-10V dimmers |
| Short circuit protection | PASS |
| Over voltage protection | PASS |
| Over temperature protection | PASS |
| THD | ≤20% |
| Withstand voltage | AC1500V |

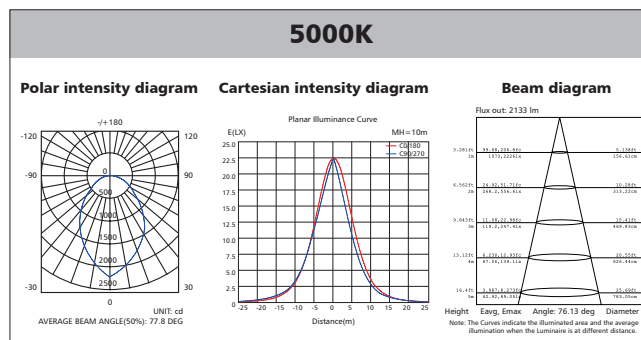
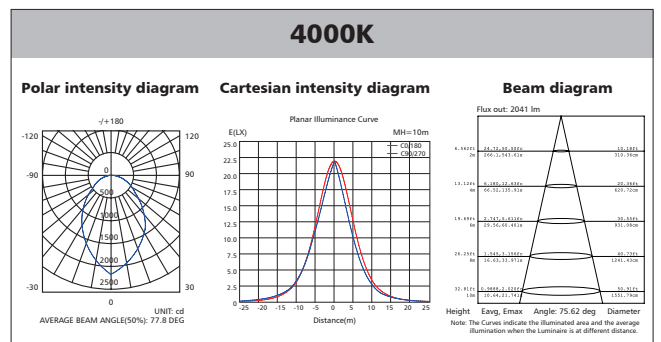
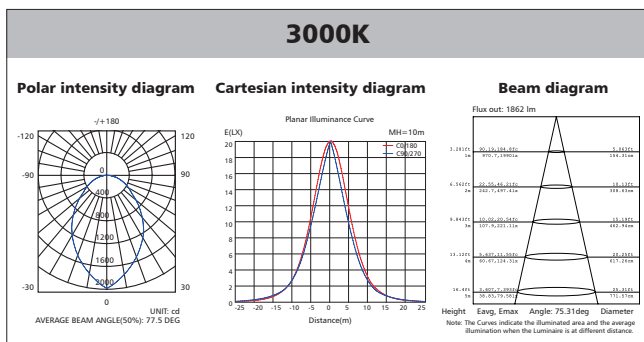
Fixture Compatibility

| Rated Wattage | With Ground | Ingress Protection | Operating Temp | Operating Humidity | Storage Temp |
|---------------|-------------|--------------------|----------------|--------------------|--------------|
| 36W | YES | Damp location | -20°C~45°C | 0~90% | -20°C~65°C |

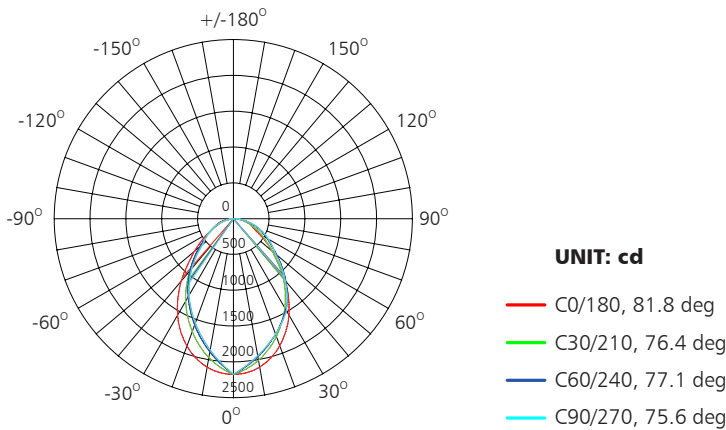
Spectral Distribution



Photometric Diagram



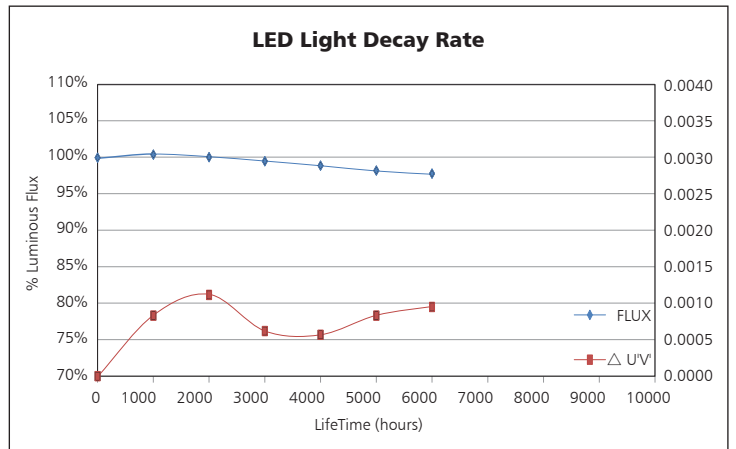
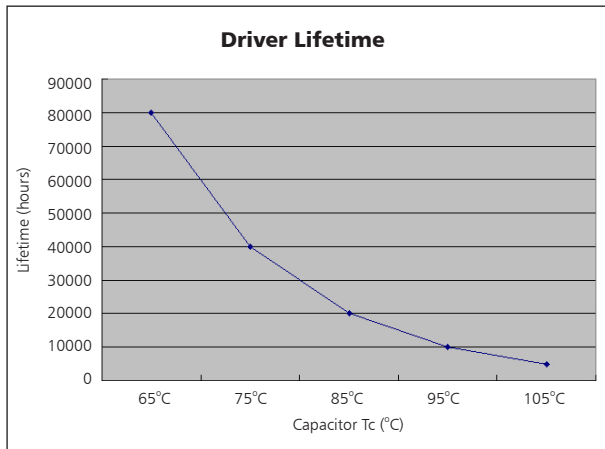
Polar Diagram Comparison



AVERAGE BEAM ANGLE (50%): 77.8 DEG

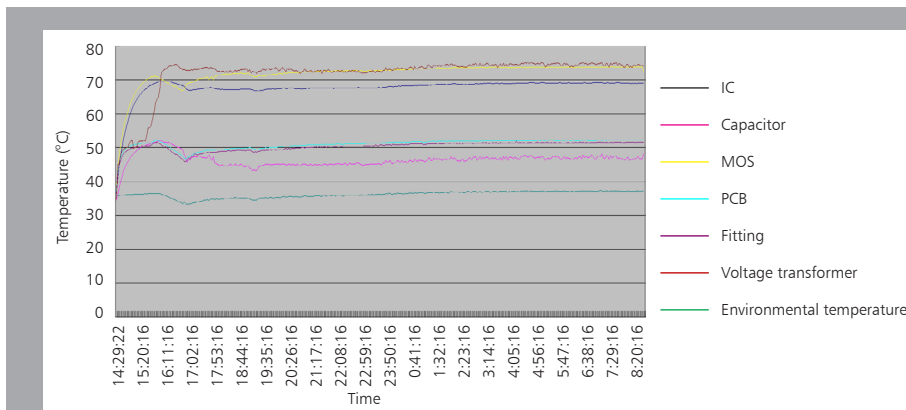


Driver lifetime & LED light decay rate



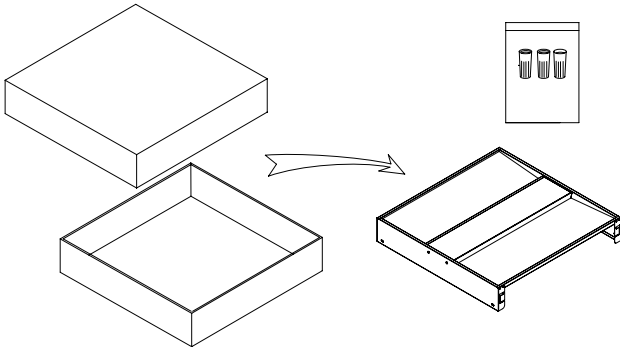
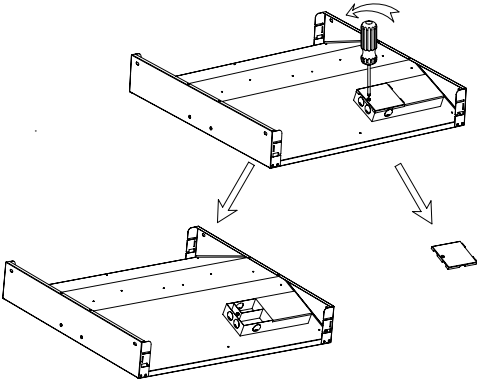
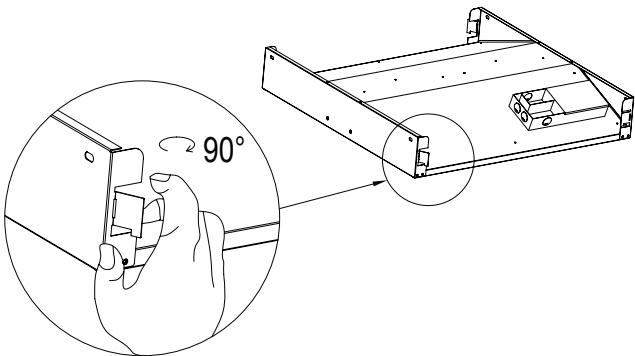
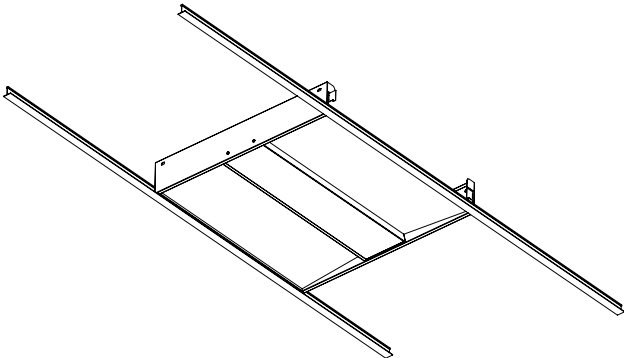
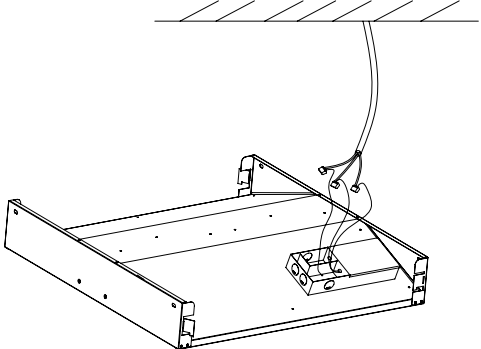
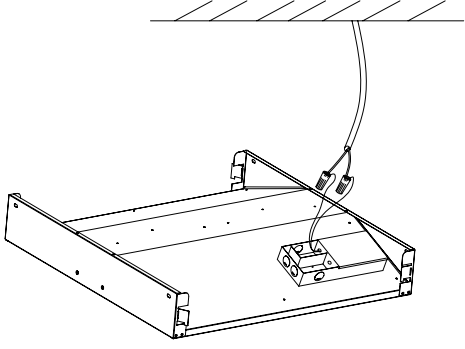
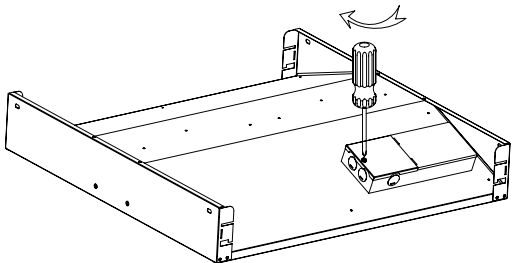
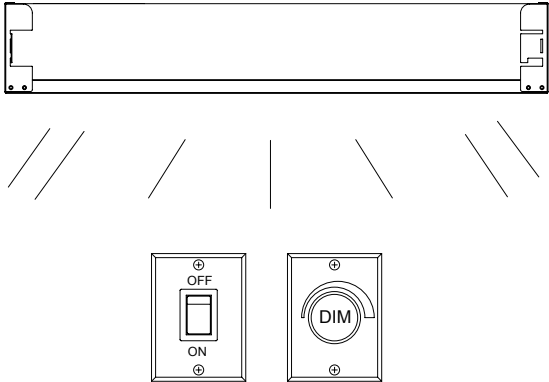
Temperature

- 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

| | |
|---|---|
|  <p>1. Take out accessories</p> |  <p>2. Unscrew and remove the power supply cover</p> |
|  <p>3. Bend hang buckle by 90° making it vertical to the rear cover of panel light. Same to 4 hang buckles.(Figure 3)</p> |  <p>4. For positioning, ensure the troffer are attached to the ceiling. (ensure the same direction.(Figure4)</p> |
|  <p>5. AC input connect to neutral in N, the line connect to L, the ground connect to the green wire.(Figure5)</p> |  <p>6. Connect input line of dimmer switch</p> |
|  <p>7. Cover the driver lid and screw.</p> |  |

Packaging Information

| | SIZE(CM) | N.W/pc (KGS) | G.W.(KGS) | Q'TY(PCS) |
|--------|----------|--------------|-----------|-----------|
| Carton | 66*66*26 | 5.1 | 12.5 | 2 |

| | CTNS | Q'TY(PCS) | VOLUME(CBM) |
|------------------------|------|-----------|-------------|
| 20' standard container | 245 | 490 | 28 |
| 40' standard container | 490 | 980 | 56 |

