

We design, build and deliver incredible

Back Lighting

Specifications

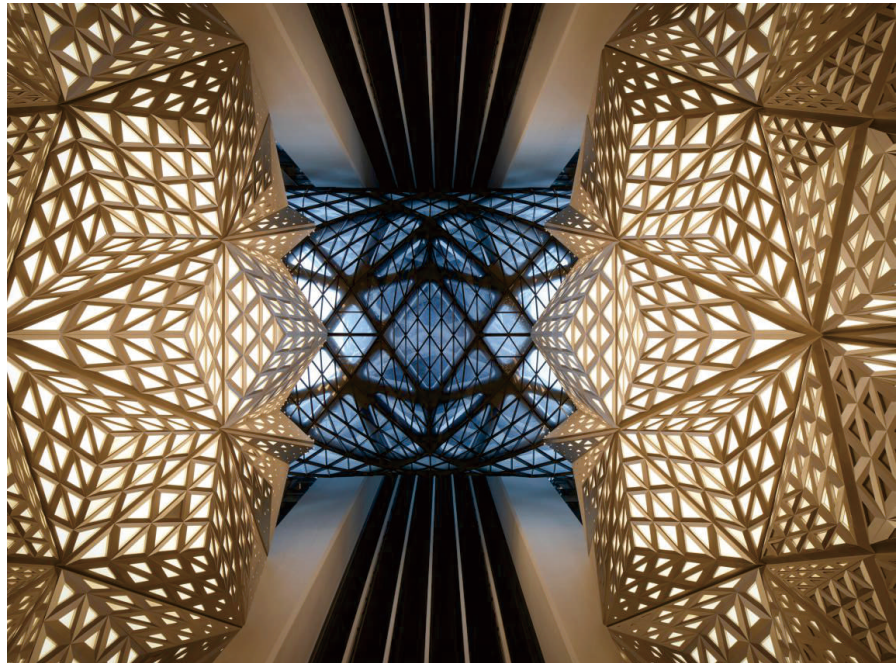
Performance Series / Terminator Performance Large 4/1000mm- TPL410

Photos



Applications

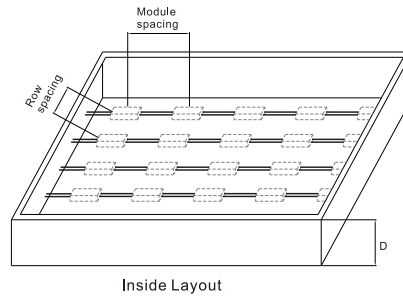
- Translucent surface backlighting for architectural and decorative applications
- Translucent materials like Stone/Glass/Wood/Resin/Fabric



Features

- Extremely uniform illumination thanks to optimized lens
- Lighting distribution is designed for 15~20cm depth
- Pure lighting shape without yellowish edge
- Exceptional color Rendering: CRI90 R9:50(@4000K)
- Consistent color uniformity :3 SDCM(ANSI Standard)
- Flicker free (3800HZ PWM Driver)
- The quality of image shooting is easy to maintain under the lighting
- High Reliability. 7 years warranty.70,000 hours lifetime
- Density could be customized for design
- Varied size are available

Layout



Population Density

| Depth (mm) | Distance (mm) | Density (pcs/m ²) | Illumination (Lux) | Luminous Intensity (cd/m ²) | Surface uniformity |
|------------|-------------------------------------|-------------------------------|--------------------|---|--------------------|
| D=120 | Module spacing=150, Row spacing=150 | 45 | 9000 | 2450 | 5%-10% |
| D=150 | Module spacing=200, Row spacing=200 | 25 | 7000 | 1900 | 5%-10% |
| D=180 | Module spacing=215, Row spacing=230 | 20 | 3600 | 980 | 5%-10% |

① Stretch ceiling

* Fiberglass fabric(light transmission factor:60%) is used for testing the face intensity and uniformity on stretch ceiling. Other surface materials may vary light uniformity and brightness.

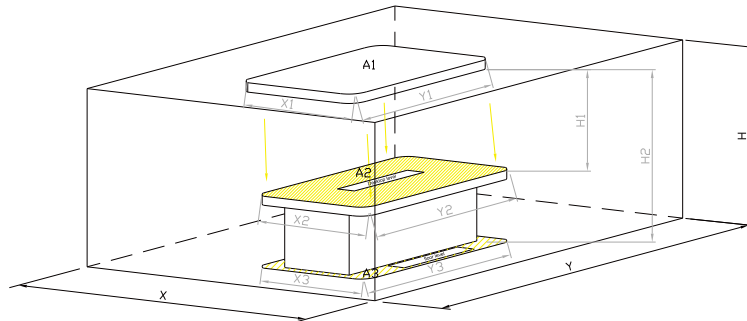
② Test Condition

* 4000K/CR190 LED module as backlighting source.

③ Reference

- *PVC Film Transmission Factor : 60-80%
- * Woven Fabric Transmission Factor: 40-60%
- * Onyx/Marble Transmission Factor:20%
- * Translucent Glass Factor:40%~55%
- *Fiberglass fabric Factor:40%~60%

Lux Calculation



E_{A1} stand for illumination of A1 $A1=X1 \cdot Y1, A1=A2=A3$ The subject size is equal to stretch ceiling lighting

| E_{A2} (Lux) | E_{A1} (Lux) | E_{A3} (Lux) | H1 (m) | H2 (m) | H (m) | Density (pcs/m ²) | Consumption (W/m ²) |
|----------------|----------------|----------------|--------|--------|-------|-------------------------------|---------------------------------|
| 1800 | 9000 | 1400 | 2 | 2.8 | 2.8 | 45 | 50 |
| 1400 | 7000 | 1100 | 2 | 2.8 | 2.8 | 25 | 30 |
| 720 | 3600 | 400 | 2 | 2.8 | 2.8 | 20 | 24 |

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② Test Condition

* 4000K/CR190 LED module as lighting source.

③ Reference

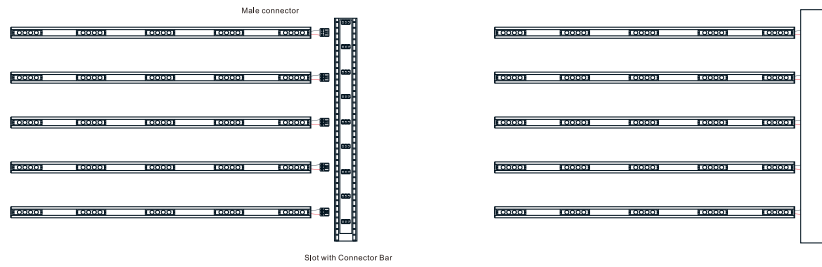
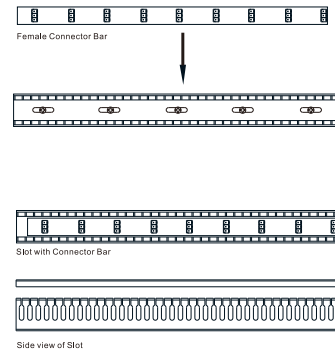
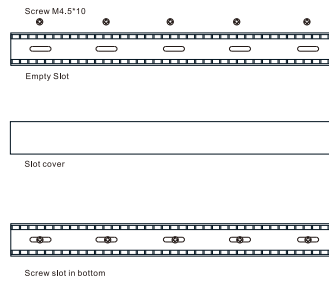
- *GB 50034-2013:Standard for lighting design of buildings
- *Fashion store(high end): 500lux(Desktop level/ 0.75meter)
- *Museum: 500lux(Desktop level/ 0.75meter) Meeting room: 300lux(Desktop level/ 0.75meter)
- *Surgery:750lux((Desktop level/ 0.75meter)) Lounge&Lobby: 200lux(Floor level)

④ Lux calculation service is available.Pls contact your sales

Specifications

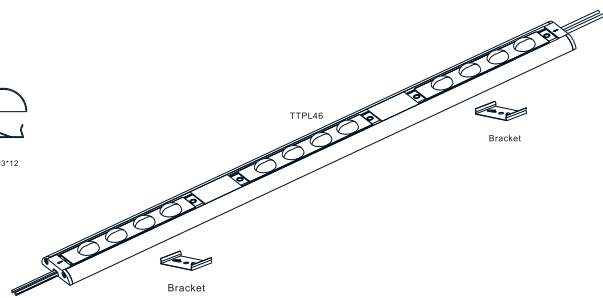
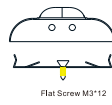
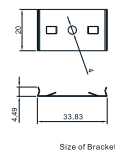
Performance Series / Terminator Performance Large 4/1000mm- TPL410

Plug&Play

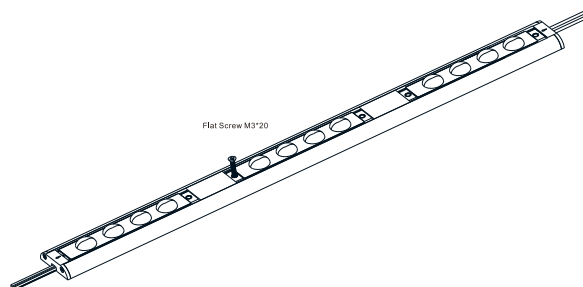


Multiple installation

Invisible installation



Fast installation

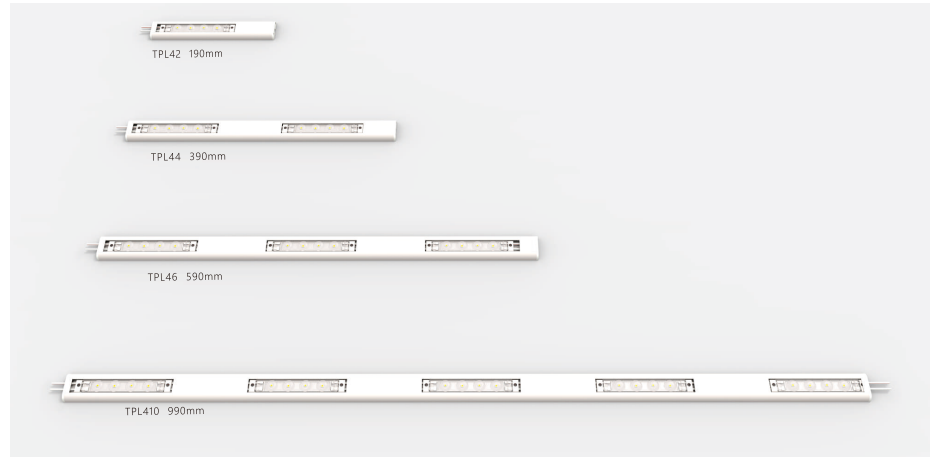
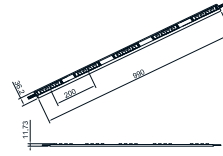


Specifications

Performance Series / Terminator Performance Large 4/1000mm- TPL410

Dimensions

Length : 990mm
 Width : 36.2mm
 Thickness : 11.73mm
 Lamp Pitch : 200 mm



Electrical Characteristics

| Part No | TPL22 | TPL24 | TPL26 | TPL210 |
|--------------------|---------------------------|-------|-------|--------|
| Voltage Range(V) | 22~26 | | | |
| Reverse Voltage(V) | 22~26 | | | |
| Power /pc (W) | 2.4 | 4.8 | 7.2 | 12 |
| Max Run Length(m) | 4 | | | |
| Technology | Integrated current source | | | |

Optical Characteristics

| | | | | |
|------------------|---|-----|-----|------|
| Lumen/unit | 248 | 496 | 850 | 1416 |
| Efficiency(lm/w) | 118 | | | |
| Beam Angle | 160 degree | | | |
| CRI | 90 | | | |
| MacAdam ellipse | 3SDCM | | | |
| Ra | 93 | | | |
| R9 | 50 | | | |
| Available Colors | 2000k/2700K/3000K/3500K/4000K/5000K/6500K | | | |

Construction

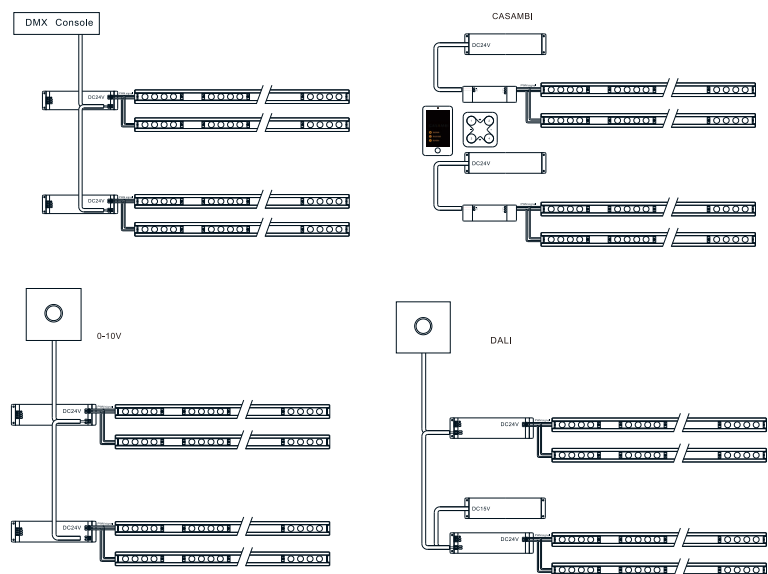
| | | | | |
|------------------------|---|-------|-------|-------|
| Body | PVC Profile/PC lens/Aluminum pcb/PVC base/3M VHB Tape | | | |
| Lead wire | 80mm 18AWG | | | |
| Max distance in series | 4 | | | |
| Weigh/pcs(g) | 59.6 | 125.6 | 183.6 | 291.6 |

Dependability

| | | | | |
|------------------|----------------------------------|--|--|--|
| Warranty | 7 years | | | |
| IP | 66 | | | |
| Flame Resistance | UL94 | | | |
| UV Exposure | ASTMG 154, ISO 4892-3, UVA@340nm | | | |

Dimming Diagrams

DMX512, CASAMBI (Bluetooth Mesh), 0/1-10V, DALI



Standards&Certificates

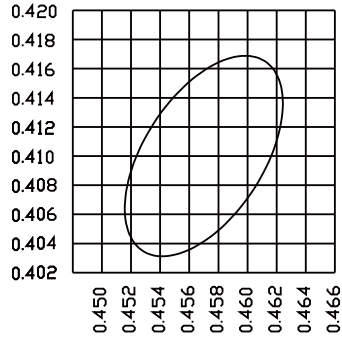
| | |
|-------------------------------------|--|
| Integrating Sphere Test | IES LM79 (lumen,CCT,CRI,XY,SDCM,wave length) |
| Photometric Distribution Test | IES LM79 |
| Aging Test | IES LM84&IES TM28 |
| Ambient Temperature Test | UL1598&UL2388&IEC60598-1&IEC60598-2-21 |
| High temperature High Humidity Test | UL1598&UL2388&IEC60598-1&IEC60598-2-21 |
| Bending Test | 500 cycles |
| Vibration Test | UL2388>750cycles |
| Tensile Test | Defined by Manufacturer |
| Drop Test | UL1598&UL2388&IEC60598-1&IEC60598-2-21 |
| IK Test | IEC62262 |
| Fire-Rating Test | UI94 |
| UV Test | ASTMG154,ISO4892-3,UVA@340nm IEC60529 |
| Salt Spray Test | IEC68-2-11 |
| Thermal Shock Test | Non-lighting -40°C-55°C (25mins) with 5mins , 100 cycles |
| High temperature test | 55°C |

Bining

ANSI C78.377

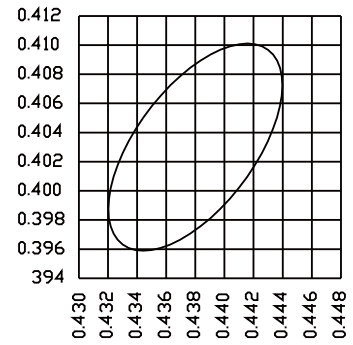
BIN:27A

| Centred x | Centred y | Nominal CCT (K) | CCT Range(K) | MacAdam ellipse |
|--------------|--------------|--------------------|-----------------|--------------------|
| 0.4578 | 0.4101 | 2700 | 2660-2790 | 3SDCM |



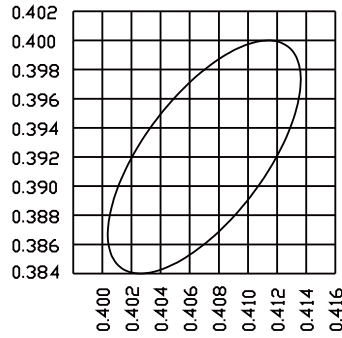
BIN:30A

| Centred x | Centred y | Nominal CCT (K) | CCT Range(K) | MacAdam ellipse |
|--------------|--------------|--------------------|-----------------|--------------------|
| 0.4338 | 0.403 | 3000 | 2865-2940 | 3SDCM |



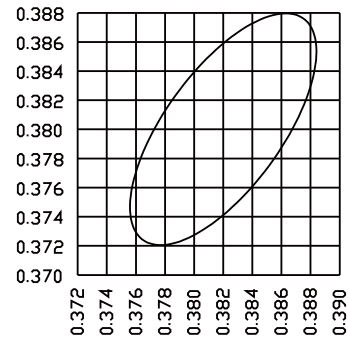
BIN:35A

| Centred x | Centred y | Nominal CCT (K) | CCT Range(K) | MacAdam ellipse |
|--------------|--------------|--------------------|-----------------|--------------------|
| 0.4073 | 0.3917 | 3500 | 3350-3550 | 3SDCM |



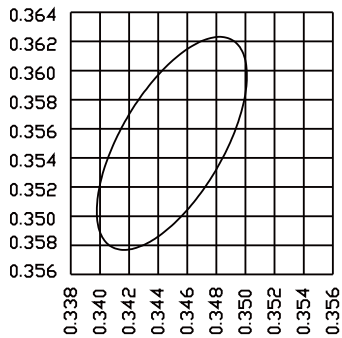
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| Centred x | Centred y | Nominal CCT (K) | CCT Range(K) | MacAdam ellipse |
|--------------|--------------|--------------------|-----------------|--------------------|
| 0.3818 | 0.3797 | 4000 | 3900-4175 | 3SDCM |



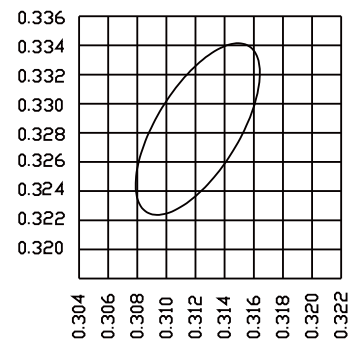
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| Centred x | Centred y | Nominal CCT (K) | CCT Range(K) | MacAdam ellipse |
|--------------|--------------|--------------------|-----------------|--------------------|
| 0.3447 | 0.3553 | 5000 | 4815-5175 | 3SDCM |

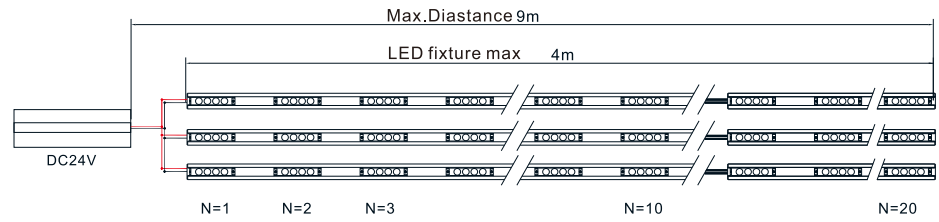


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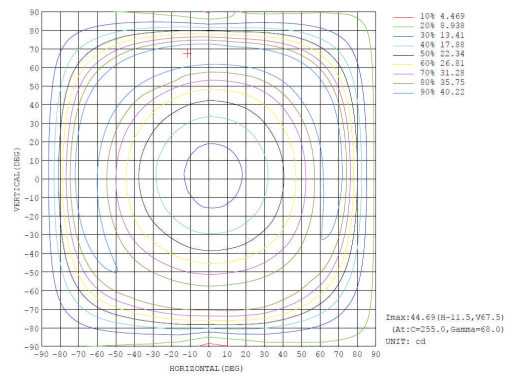
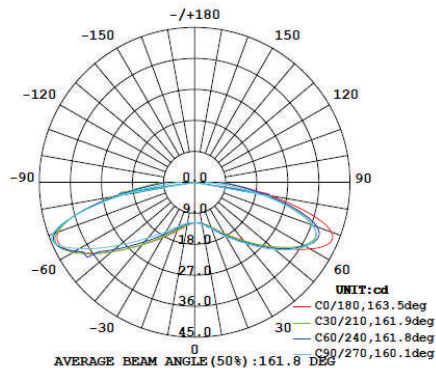
| Centred x | Centred y | Nominal CCT (K) | CCT Range(K) | MacAdam ellipse |
|--------------|--------------|--------------------|-----------------|--------------------|
| 0.3123 | 0.3282 | 6500 | 6200-6700 | 3SDCM |



Wiring



Lighting Distribution



Packaging



| | Qty of LED module | Qty of Chain | Dimension (mm) | Net weight(kg) | Gross Weight(kg) |
|------------|-------------------|--------------|----------------|----------------|------------------|
| Inner Box | 20pcs (4 meters) | 1 | 1050*85*45 | 1.2 | 1.3 |
| Master Box | 200pcs (40meters) | 10 | 1070*245*190 | 12 | 13.5 |