MYNICE

LUMILEDS

Product datasheet



TP series

| 24VDC: | 12VDC: |
|------------------|------------------|
| TP1: M21GW35E(B) | TP1: M21GW35D(A) |
| TP2: M22GW35E(B) | TP2: M22GW35D(A) |
| TP3: M23GW35E(B) | TP3: M23GW35D(A) |
| TP4: M24GW35E(B) | TP4: M24GW35D(A) |

Areas of application

- Signage and illuminated advertising.

LM-79

TESTED

- Backlighting of channel letters and light box.
- Best for 50mm to 200mm depth (2inch to 8inch).

LM-80

TESTE

TÜV

Product main benefits

- New excellent small lens design can get much more uniformity performance in application.

UKAS

ISO 14001

- New technology to get high efficiency.
- 5 years warranty.
- 170 lm/W (6500K).





optical performance proportion $= \frac{D(depth)}{P(spacing)} = 1:2.5$

- The proportion of "P" and "D" can show the performance of lens optics design.
- The bigger proportion, the wider light spot.
- The proportion is for reference from lab, actual layout need based on real application.

Application





Electrical data (24VDC)

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| PRODUCTS | PART NUMBERS | Typical Voltage | Energy Consumption (W/module) | Energy Consumption (W/chain) | Energy Consumption (W/ft.) | Additional Information (modules/chain) |
|----------|----------------------|--------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| TP1 | M21GW35E M21GW35B | 24VDC | 0.36 | 36 10.8 | 1.5 | 100 30 |
| TP2 | M22GW35E M22GW35B | 24VDC | 0.72 | 36 21.6 | 1.8 | 50 30 |
| TP3 | M23GW35E M23GW35B | 24VDC | 1.08 | 43.2 32.4 | 1.9 | 40 30 |
| TP4 | M24GW35E M24GW35B | 24VDC | 1.44 | 43.2 36 | 2.2 | 30 25 |

Remark:

- 1. Ranking at $t_a = 25^{\circ}C$.
- 2. M2xGW35E are constant current design, M2xGW35B are constant voltage design.

Electrical data (12VDC)

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| PRODUCTS | PART NUMBERS | Typical Voltage | Energy Consumption (W/module) | Energy Consumption (W/chain) | Energy Consumption (W/ft.) | Additional Information (modules/chain) |
|----------|----------------------|--------------------|-------------------------------------|------------------------------------|----------------------------------|--|
| TP1 | M21GW35D M21GW35A | 12VDC | 0.36 | 10.8 7.2 | 1.5 | 30 20 |
| TP2 | M22GW35D M22GW35A | 12VDC | 0.72 | 18 14.4 | 1.8 | 25 20 |
| TP3 | M23GW35D M23GW35A | 12VDC | 1.08 | 21.6 | 1.9 | 20 |
| TP4 | M24GW35D M24GW35A | 12VDC | 1.44 | 28.8 | 2.2 | 20 |

Remark:

- 1. Ranking at $t_a = 25^{\circ}C$.
- 2. M2xGW35D are constant current design, M2xGW35A are constant voltage design.

Photometrical data (24VDC)

| MYNIC | E |
|-------|---|
|-------|---|

| Products | Part Numbers | Light color (designation) | Color (CCT, wavelength) | Typical Brightness (lumen/module) | Typical Brightness (lumen/ft.) |
|-----------------|--------------|------------------------------|----------------------------|--------------------------------------|-----------------------------------|
| | | Warm white | 3000K/4000K | 50 | 203 |
| TP1 | M21GW35E(B) | White | 5000K/6500K/7100K | 54 | 220 |
| | | Cool White | 8000K/10000K 50 | | 203 |
| | | Warm white | 3000K/4000K | 116 | 286 |
| TP2 | M22GW35E(B) | White | 5000K/6500K/7100K | 122 | 298 |
| | | | 8000K/10000K | 116 | 286 |
| | | Warm white | 3000K/4000K | 150 | 261 |
| TP3 M23GW35E(B) | | White | 5000K/6500K/7100K | 160 | 279 |
| | | Cool White | 8000K/10000K | 150 | 261 |
| | | Warm white | 3000K/4000K | 233 | 355 |
| TP4 | M24GW35E(B) | White | 5000K/6500K/7100K | 245 | 373 |
| | | Cool White | 8000K/10000K | 233 | 355 |

Photometrical data (12VDC)

| MYNIC | E |
|-------|---|
|-------|---|

| Products | Part Numbers | Light color (designation) | Color (CCT, wavelength) | Typical Brightness (lumen/module) | Typical Brightness (lumen/ft.) |
|----------|--------------|------------------------------|----------------------------|--------------------------------------|-----------------------------------|
| | | Warm white | 3000K/4000K | 58 | 236 |
| TP1 | M21GW35D(A) | White | 5000K/6500K/7100K | 61 | 248 |
| | | Cool White | 8000K/10000K | 58 | 236 |
| | | Warm white | 3000K/4000K | 116 | 283 |
| TP2 | M22GW35D(A) | White | 5000K/6500K/7100K | 122 | 298 |
| | | Cool White | 8000K/10000K | 116 | 283 |
| | | Warm white | 3000K/4000K | 174 | 303 |
| TP3 | M23GW35D(A) | White | 5000K/6500K/7100K | 184 | 321 |
| | | Cool White | 8000K/10000K | 174 | 303 |
| | | Warm white | 3000K/4000K | 233 | 355 |
| TP4 | M24GW35D(A) | White | 5000K/6500K/7100K | 245 | 373 |
| | | Cool White | 8000K/10000K | 233 | 355 |

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Application Conditions and light distribution

| Operating Environment(t _a) | -25°C to +60°C |
|--|----------------------------------|
| Storage Temperature Range (t _s) | -40°C to +85°C |
| IP Rating | IP66 |
| Lifetime (L70B50) | 5 years |
| tc temperature | 80 ℃ |
| Dimming mode | Dimmable |
| Energy Efficacy Class | B (nTM =185lm/W) |
| | |
| Cutting Resolution | Cut on wire between every module |
| Cutting Resolution | Cut on wire between every module |

Wiring method





Drawing





Drawing



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| PRODUCTS | PART NUMBERS | Package unit (modules/carton box) | Carton box Dimensions (length x width x height) |
|----------|--------------|-----------------------------------|---|
| TP1 | M21GW35x | | 52 x 37 x 26 cm |
| TP2 | M22GW35x | | 52 x 37 x 26 cm |
| TP3 | M23GW35x | | 52 x 37 x 26 cm |
| TP4 | M24GW35x | | 52 x 37 x 26 cm |

Additional information:

- Installation of LED modules (with power supplies) needs to be made under consideration of all valid regulations and norms.
- Installation by qualified electrician only.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is discouraged.
 Unbalanced voltage drop in serial connection can cause hazardous overload
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- To avoid mechanical damage, the LED modules have to be attached securely to the intended mounting surface. It is recommended to avoid heavy vibration.
- LED modules are dimmable by means of PWM (pulse width modulation).