

## 24mm Wide Zhaga Series - Monochrome

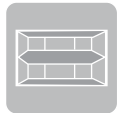


- High efficiency up to 190lm/W
- Various CCT available: 2700/3000/4000/5000/5700/6500K
- CRI:80/90 options
- Macadam 3 steps color bin
- Solutions for linear light/troffer light/panel light/wall light
- Poke in wiring connectors
- Easy & quick for Parallel or serial wiring
- Better alternative solutions for fluorescent light
- According to Zhaga book 7 requirement

### General Application



Linear light



Troffer light



Panel light

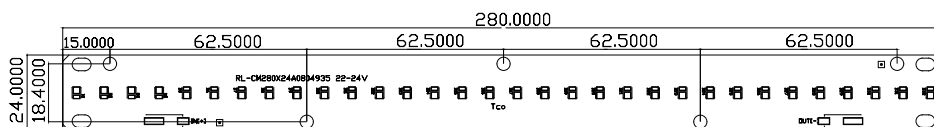
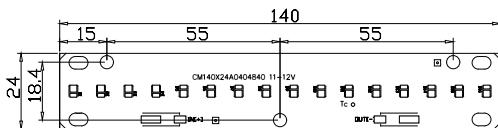


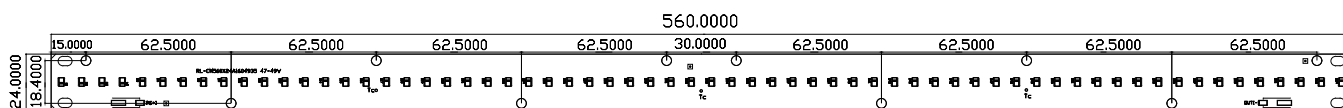
Wall light

### Applied standards



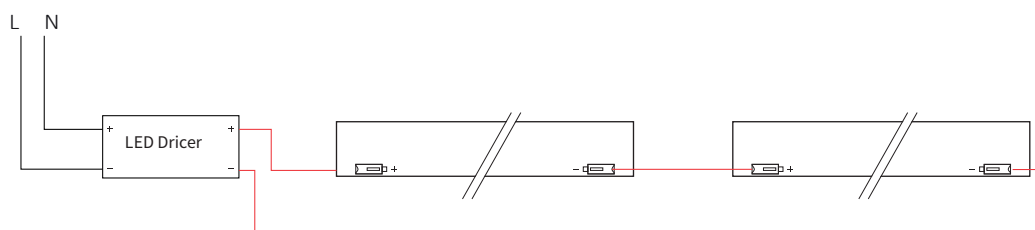
### Mechanical dimension (Unit: mm)





## Wiring example (RL-HM280\*30A series)

Light bar connected in parallel



## Wire preparation

0.2–0.75 mm<sup>2</sup>(AWG24-18)



6-10mm

## Module temperatures

| Parameter                                                 | Nominal* | Life** | Max*** | Unit |
|-----------------------------------------------------------|----------|--------|--------|------|
| T <sub>c</sub> (case temperature at T <sub>c</sub> point) | 55       | 75     | 85     | ℃    |

\* Nominal value at which typical performance is specified

\*\* Value at which life time is specified

\*\*\* Maximum value for safe operation, do not operate above this value

## Selection guide

| P/N                     | Size   | Voltage -Vdc |     | Current -mA |     | Power -W |      | Flux | Efficiency | CCT  | CRI |
|-------------------------|--------|--------------|-----|-------------|-----|----------|------|------|------------|------|-----|
|                         | mm     | Typ          | Max | Typ         | Max | Typ      | Max  | Lm   | Lm/W       | K    | -   |
| RL-CM70x20A1301H001-827 | 560×24 | 47           | 49  | 300         | 400 | 14.1     | 19.6 | 2280 | 190        | 4000 | 80  |
| RL-CM70x20A1301H001-830 | 560×24 | 47           | 49  | 300         | 400 | 14.1     | 19.6 | 2040 | 170        | 4000 | 90  |
| RL-CM70x20A1301H001-840 | 280×24 | 23           | 25  | 300         | 400 | 6.9      | 10   | 1140 | 190        | 4000 | 80  |
| RL-CM70x20A1301H001-850 | 280×24 | 23           | 25  | 300         | 400 | 6.9      | 10   | 1020 | 170        | 4000 | 90  |
| RL-CM70x20A1301H001-857 | 140×24 | 11           | 13  | 300         | 400 | 3.3      | 5.2  | 570  | 190        | 4000 | 80  |
| RL-CM70x20A1301H001-865 | 140×24 | 11           | 13  | 300         | 400 | 3.3      | 5.2  | 510  | 170        | 4000 | 90  |

Note: 1-Variou CCT available (2700-6500K) ; RL-XXXXXXXXXXXX-840X (8-80CRI;40-4000K CCT)

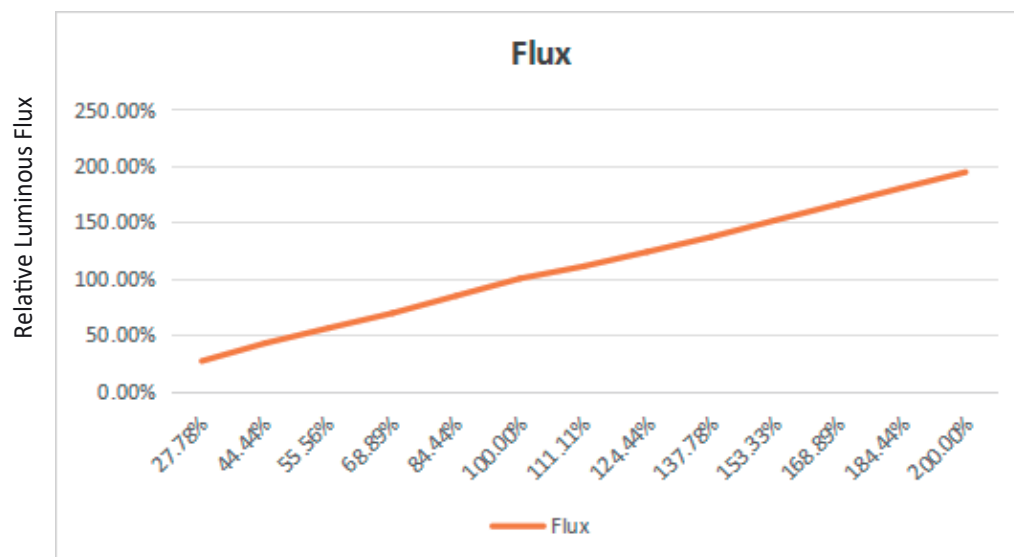
2-Typical Optical-electronic parameters above @ Ta=25 °C

## General information

|                       |                                              |
|-----------------------|----------------------------------------------|
| Input                 | SELV (depends on the external driver spec. ) |
| Rated power           | Typical power (±10% tolerance)               |
| Protection            | IP20                                         |
| Storage temperature   | -30-85 °C                                    |
| Operation temperature | -30-80 °C (Ts of led components)             |
| Beam Angle            | 120 deg                                      |
| Connectors            | Poke-in Type                                 |

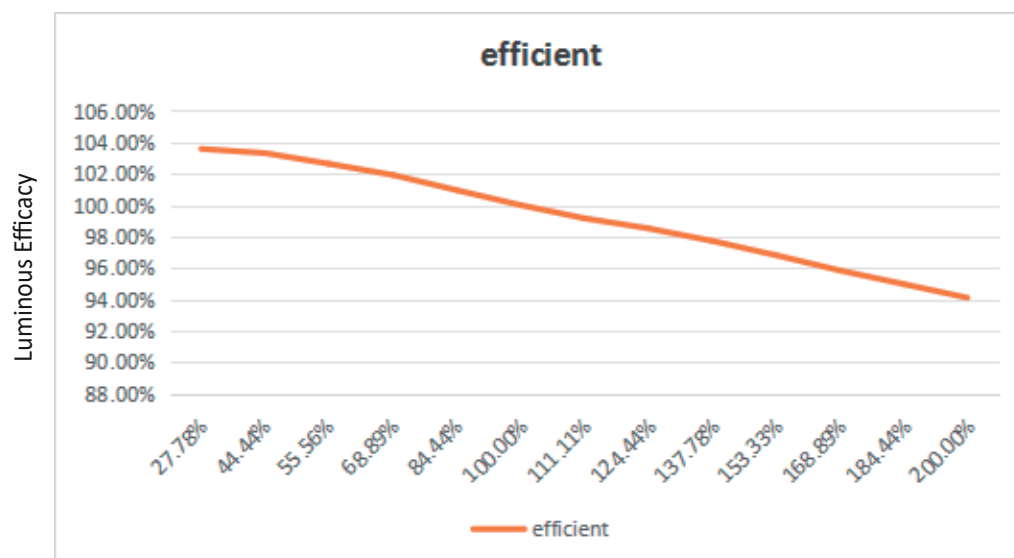
## Forward Current Characteristics (Ts=25℃)

Relative Luminous Flux VS Forward Current



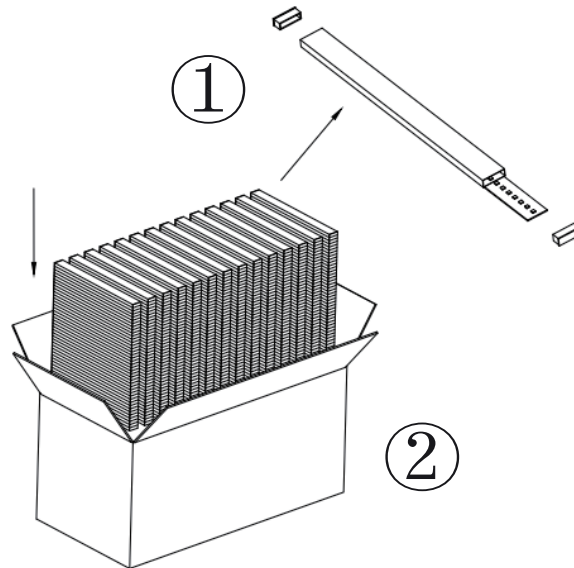
Forward Current (A)

Luminous Efficacy VS Forward Current



Forward Current (A)

## Package



## Safety Information

1. The LED module and all its components shall not be subjected to mechanical stress.
2. Correct electrical polarity, or not module may be damaged.
3. Ensure the power supply is suitable for the total load.
4. Electrostatic Discharge (ESD) precautions shall be incorporated when handling or installing the module.
5. Installation of LED modules shall be made referring to all applicable electrical and safety standards.
6. Suitable for luminaire of protection class 1, grounding is mandatory to comply with safety standards.
7. The AC light engine needs to be mounted to a heat sink with a thermal interface material between them.
8. It is better to use the AC led module with safety cover.
9. Modules may be hot to the touch. Use caution when handling.



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LED Strip Manufacturer

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