



STELLA LM SERIES

2835 WATERPROOF MODULE

GSB | CHANNEL LETTERS

Providing Better Solutions



STELLA LM



Key Features



High Efficacy
up to **160LM/W**



IP67 Waterproof
Construction



Single module
cuttable



Self-designed lens
with **170°** beam angle
for uniform light



5-Year
Warranty



Low-voltage
12V DC systems



2835 Chipset
high-efficiency



Fully integrated
Glue-fill design



Non-Dimmable

*Supports **2KHz** PWM Dimming with
Mean Well **ELG/HLG** Power Supply

Application

Suitable for 5-18 cm depth light box,
subway stations, supermarkets, bus
stations, etc.

Installation

Fix by,
Adhesive tapes or screws.

Available Colors



8000K
Cool
White



4000K
Natural
White



3000K
Warm
White

*Other CCT and colors available on request.

Certifications



M1505 • LUMI Technical Specifications

Optical Specifications	
Color Temperature (CCT)	8000K, 4000K, 3000K
Luminous Flux	227 LM/pcs
Luminous Efficacy	160 LM/W
Beam Angle	170°
Color Rendering Index (Ra)	80+
LED Qunatity	3 LEDs / module
Power and Electrical Specifications	
Operating Voltage	12V DC
Power consumption	1.42 W/pcs
Standard Run	20 pcs
Maximum Run	20 pcs
Physical and Mechanical Specifications	
Dimensions (L X W X H)	69 x 14 x 5 mm
Working Temperature	-20°C to ±60°C
Storage Temperature	-20°C to ±70°C

Test environment temperature 25±2°C.

The luminous flux and power tolerance within ±10%.

The actual data of each single product may differ from the typical valuesThe data is subject to change without notice.

Recommended Wiring Layout



Maximum 20 Modules per series connection.



Inject power every 20 modules.



Use minimum 18AWG (0.75 sqmm) cable.



Keep PSU-to-module wire under 2 meters.



Maintain correct polarity. (+ / -)



Connect load first, then power supply.



For **Large Signage**, use parallel injection wiring to avoid voltage drop.

Power Supply Wattage Calculation (With 20% Margin)

Formula:

Total Watt = Number of Modules x 1.42W

Recommended PSU = Total Watt x 1.2

Example:

If 100 Modules are used:

$100 \times 1.42W = 142W$

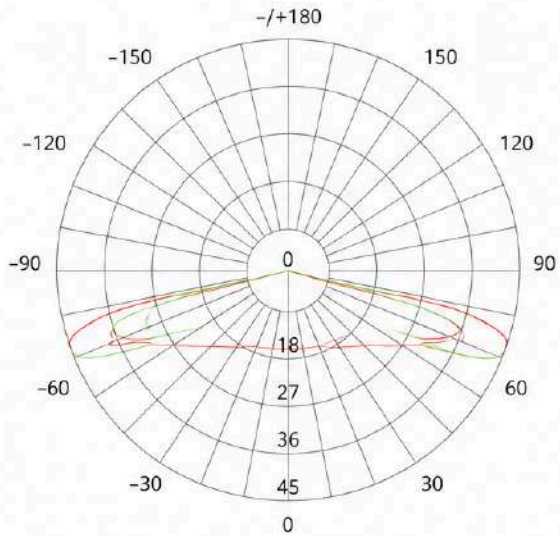
$142W \times 1.2 = 170.4W$

Recommended PSU = **200W 12V**

Always select next higher standard driver rating.

Luminous Distribution Analysis

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

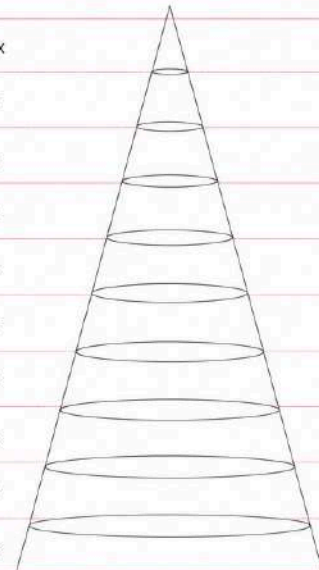


AVERAGE BEAM ANGLE(50%): 173.2° Unit: cd
 — C90/270,171.6°
 — C0/180,174.0°

AVERAGE ILLUMINATION

CCT=6530-7040K

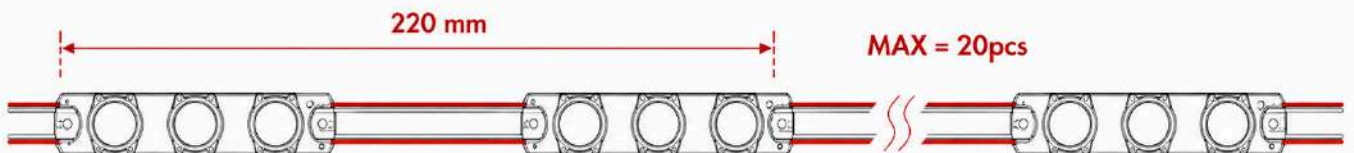
2cm	442.3,211.1lx	54.38cm
4cm	110.6,527.9lx	108.76cm
6cm	49.14,234.6lx	163.15cm
8cm	27.64,132.0lx	217.53cm
10cm	17.69,84.6lx	271.91cm
12cm	12.29,58.6lx	326.29cm
14cm	9.026,43.0lx	380.68cm
16cm	6.911,32.9lx	435.06cm
18cm	5.460,26.7lx	489.44cm
20cm	4.423,21.1lx	543.82cm



Height Eavg, Emax **Beam Angle: 171.59°** Diameter

* The above two figures are tested with the sample M1505 - LUMI at 8000K, for other data, please consult sales rep.

M1505-LUMI (12V)



Packaging Details

Packaging Type	Quantity
Inner Box	200 Modules
Outer Carton	2000 Modules

Attention before installation

- Before installation, check that the product parameters are consistent with the requirements. (Seeing product specifications or product labels)
- Load voltage, current power and power supply should be matched with the product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Make sure the correct connection of positive and negative poles between products and power supply. Otherwise, the LEDs do not turn on.
- Make sure the power cord firmly screwed into the terminal and a should not be pulled out by hands.
- The terminal should have insulation waterproof and anti-corrosive treatment.
- After installation, the fabric light box must be covered with cloth within 48 hours.
- Please avoid leaving the light box idle for a long time.

Important Installation Notes

- Use regulated 12V DC power supply.
- Do not exceed 20 modules per series chain.
- IP67 is suitable for outdoor use.
- Seal all exposed wire joints properly.
- Test illumination before final acrylic fixing.
- Installation should be performed by trained technician.

Warnings

- Do not disassemble or retrofit the light. Do not touch the surface of the light with a sharp object.
- Do not do live-line working during installation especially for high voltage product.
- Do not use any organic chemical solvents Use neutral glass adhesive to fix this product and it needs to be dried 24 hours in the open environment after operation.
- Treat the ends and the circuit connection points that are not connected to the main line with insulation, waterproof, and anti-corrosion in the installation.
- Use 18AWG (0.75mm² cross-sectional area) or thicker core wire to avoid adverse consequences caused by overheating, if the power cable need to lengthen.
- Make sure the input voltage meets the requirements and lines are connected correctly before lighting on.
- This product is for signage, and do not use as general lighting.
- Series connection within the maximum run.
- The length of the power cable between the power supply and the led strip should not exceed 2m. Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Statements

- Repair should be operated by a qualified technician, if the external circuit or main line of this product is damaged.
- The parameters given in this manual are typical values and for reference only.
- All illustrations and drawings in this manual are for reference.
- This product is subject to change without notice.

Recycling

- LED lighting products belongs to electronic products, please do recycling treatment according to the relevant WEEE directives.

Common Faults and Troubleshoot

Quick Guide		
Problems	Reasons	Solutions
All LEDs can not light ON	No electric supply	Fix the short circuit problem
	Automatic power protection from the open or short circuit in output of the power supply	
	Wrong connection of power supply	
LEDs can not light on partly	Some switching mode power supplies are not powered	Correctly connection
	Power supply line error	
	Mistaken wire connection of some of products	
Brightness of LED is inconsistent or insufficient	Power overloaded	Replace with more powerful power
	Power supply circuit excessive consumption	Make sure the working voltage of the product within 25% of standard voltage, or keep balance by circuit power consumption
	Excessive quantities in series connection of the product	Reduce the quantities of the product in series connection to meet requirement
LED flicker	Connection point fault	Remove bad connection point
	Switching power supply failure	Replace a new power supply
	Wrong Installation or use of products	Please follow the instructions