

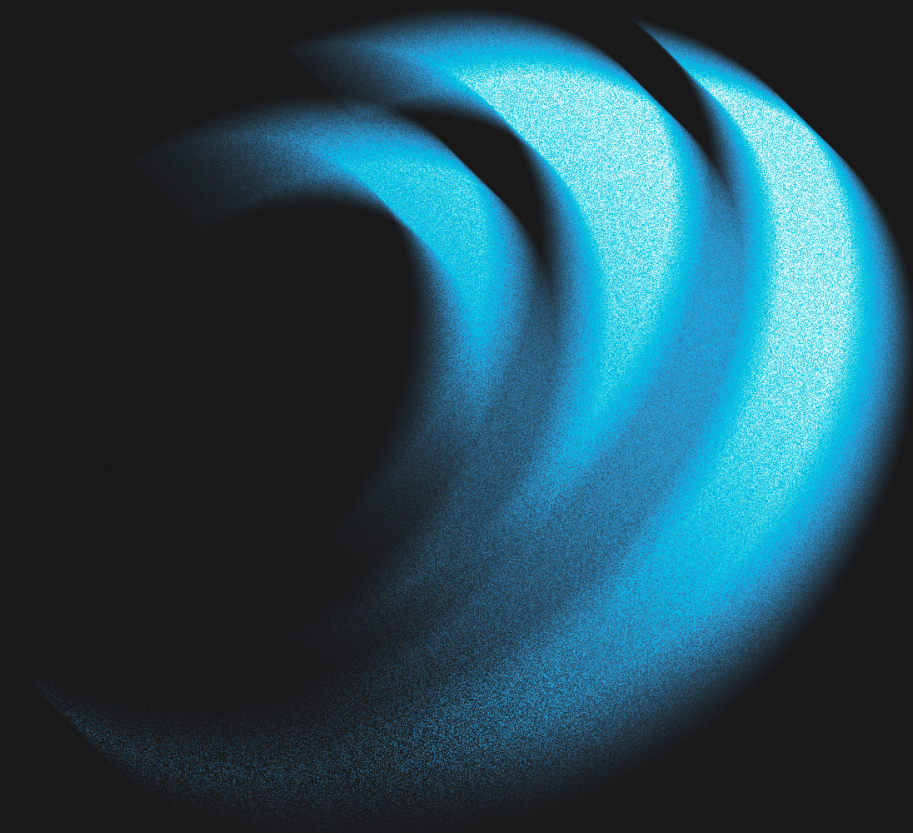


LED MODULE

DC 12V

RGBW Series

FM3-Q4





FM3-Q4 | RGBW SERIES

FEATURES

- Adopts integrated injection-molded lens;
- Superior weather and UV resistance;
- External controller can be connected to realize rich color changes;
- Single module cuttable, support customization;

APPLICATION

- Suitable for outdoor decorative lighting in large logos, building facades, amusement parks, hotels, billboards, curtain walls, stages, and entertainment venues.

OPTICAL & ELECTRICAL PARAMETERS



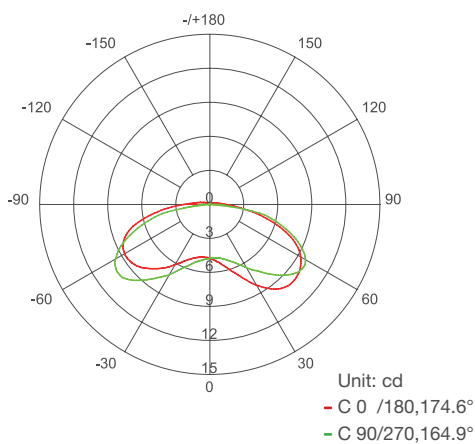
Model No.	Voltage	Ra	Color	CCT/Color Available	Typical Luminous Flux Value (Lm/pcs)	Efficacy (Lm/W)	Power (W/pcs)
FM3-Q4	DC 12V	>90	W	6500K	19	75	0.26
		\	R	620-632nm	7	26	0.26
		\	G	515-523nm	16	61	0.26
		\	B	460-480nm	4	15	0.26
		\	RGBW	--	45	44	1.00

OTHER PARAMETERS

Model No.	LED Qty/pc	Standard Run (pcs)	Max Run (pcs)	Min. Cutting Unit (pc)	Working Temperature	Storage Temperature
FM3-Q4	3	20	20	1	-25~+60°C	-25~+70°C

- Note:
- Test environment temperature : 25±2°C.
 - Figures above are typical figures. Actual figures could be different with typical figures, and the data is subject to change without notice.
 - The above luminous flux is based on corresponding light colors.
 - The color temperature and luminous flux may vary when different LED chips are selected.
 - Power and luminous flux tolerance within ±10%.
 - Max run is in single feed.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%): 169.8°

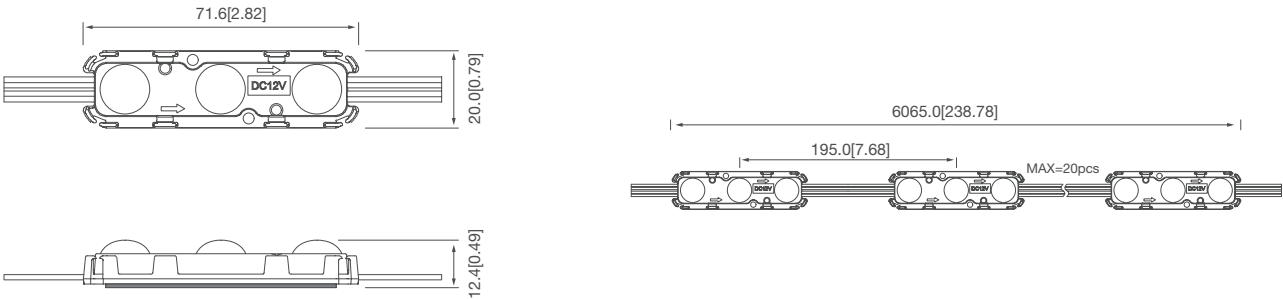
AVERAGE ILLUMINATION

Flux Out: 39,14lm		RGBW	
Height	Eavg, Emax	Beam Angle: 154.02°	Diameter
0.02m	1407,13532lx		17.34cm
0.04m	351.8,3383lx		34.68cm
0.06m	156.4,1504lx		52.02cm
0.08m	87.96,845.7lx		69.37cm
0.10m	56.29,541.3lx		86.71cm
0.12m	39.09,375.9lx		104.05cm
0.14m	28.72,276.2lx		121.39cm
0.16m	21.99,211.4lx		138.73cm
0.18m	17.37,167.1lx		156.07cm
0.20m	14.07,135.3lx		173.42cm

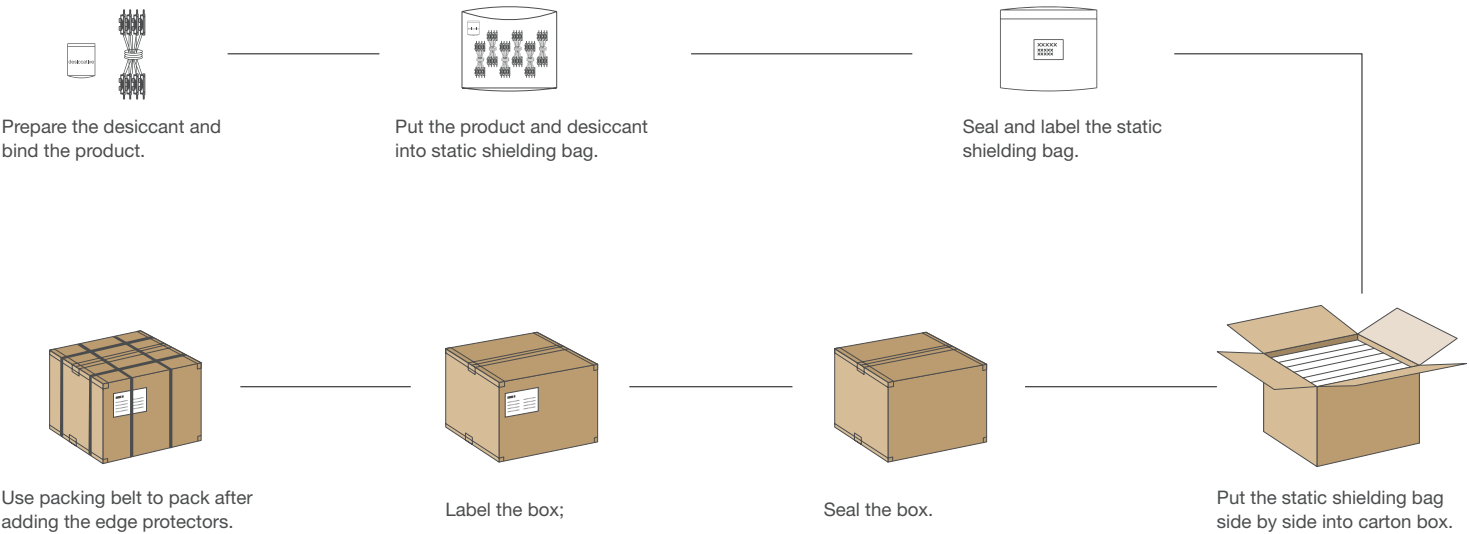
Note: the above two figures are tested with the sample FM3-Q4, for other data, please consult sales rep.

PROFILE DRAWINGS

Unit: mm[inch]



PACKING

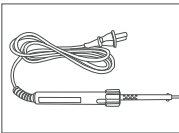


Packaging Information

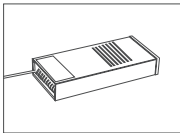
Model No.	Product Size(mm)	Carton Size(mm)	PCS/Bag	Bag/Carton Box	Net Weight (kg)	Gross Weight (kg)
FM3-Q4	71.6*20*12.4	380*380*345	90	16	15.84 (1±10%)	16.80 (1±10%)

Note:
Packing materials: static shielding bag and carton box.
The above quantity and weight are only for the illustrated packaging method. There will be differences in the quantity and weight with other packaging methods.

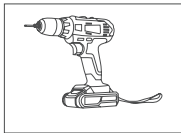
ACCESSORIES & TOOLS



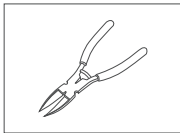
Electric iron



LED power supply



Electric drill



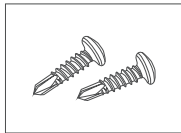
Diagonal pliers



Controller



Insulation tape



Screw

ATTENTIONS BEFORE INSTALLATION

- Before installation, please check whether the parameters of the product are consistent with the requirements (Seeing the Product Specification or Label).
- The voltage, current, and power of the power supply and load used must be consistent with this product.
- Follow the instructions of wiring diagram (first connect the load and then the power supply) to avoid short circuit.
- Product wires must be correctly connected to the positive and negative terminals of the power output, otherwise the light will not turn on.
- The power cord should be tightly screwed into the terminal, with a recommended tightness that cannot be pulled out by hand.
- The connection terminals must be effectively waterproof and corrosion-resistant.
- If the working length exceeded the max run length, make sure to have extra power supply.
- If it needs higher current of a LED, make sure having extra cooling.
- **After installing this product in the lightbox, cover with fabric within 48 hours. Avoid leaving it unused or idle for extended periods.**

WARNING

- 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 4 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 max run.
- The length of the power cable between the power supply and the led strip should not exceed 2 meters.Otherwise, large circuit loss will lead to inconsistent brightness.
- Installation, maintenance and repair should be operated by a qualified technician.

Version	Content	Date
A1.0	First release	2025-6-27

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