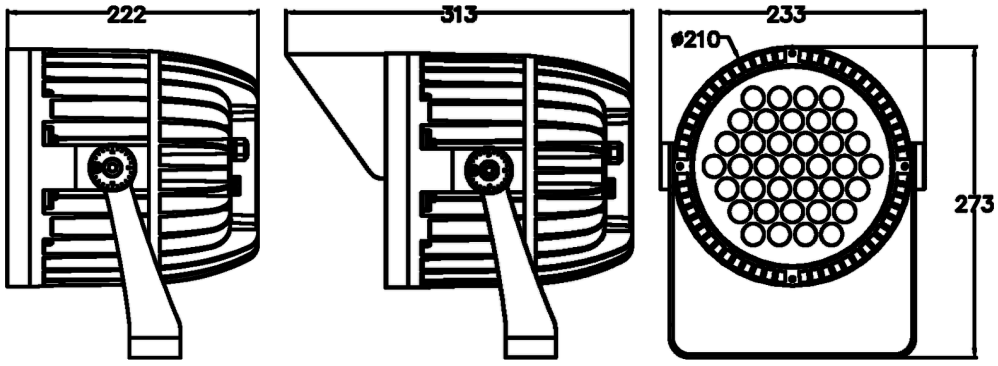
TG001F

Special lighting fixtures for buildings, tunnels, bridges, gardens, squares, etc.

IP Rating	IK Rating	Water Depth	Mounting Method	Safety Class	Certification Mark	Environmental Mark	Recyclable Mark
IP67	08 (5 kg, 10 cm, 5 J)	ABOVE WATER	SURFACE MOUNTED	Class III	CE	RoHS	RECYCLABLE

DIMENSIONS



Unit:mm

TECHNICAL DATA

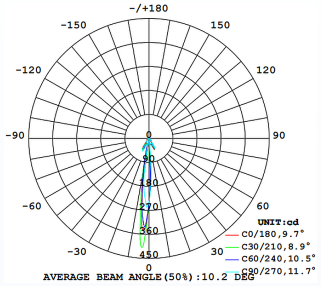
TG001F

ELECTRICAL	**ELECTRICAL PARAMETERS**	
	Typical Power | Power Consumption	72 W / 96 W @RGBW
	Input | Current	AC90~265V
	Control Method | Control	ON OFF/DMX512 / DALI / 0-10V
	Cable Order | Wiring	1 in (one in)
	Security Level | Class	Class III
LIGHT SOURCE	**LED LIGHT SOURCE PARAMETERS**	
	LED Chip Brand | Brand	CREE/TX
	LED Chip Type | Type	RJ5050 / TX3535
	LED Quantity | Qty	1PCS /3 PCS
	Colour (CCT) | Colour	2200K/2700K/3000K/4000K/6500K/RGBW
	CRI | Rendering	Ra ≥ 70/Ra ≥ 80/Ra ≥ 90
	Typical Light Efficiency | Efficacy	>80 lm/W (3000K) · >30 lm/W (RGBW)
	Lifetime | Life	50,000 H
STRUCTURE	**STRUCTURAL PARAMETERS**	
	Material | Housing	Aluminum
	Cover | Glass	PMMA, T = 5 mm
	Beam Angle | Angle	10°/20°/30°/60°
	Product Dimensions | Size	See DIMENSIONS drawing
	Weight | Mass	4.9 kg
ENVIRONMENT	**ENVIRONMENTAL PARAMETERS**	
	Working Temperature | Temp	-25°C ~ +45°C
	Storage Humidity | Humidity	0 ~ 90%
	IP Code | IP	IP67
	IK Code | IK	IK08

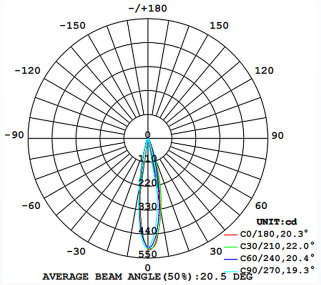
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

Beam 10° / 20° / 30° / 60°

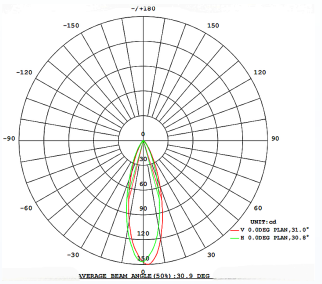
BEAM ANGLE 10°



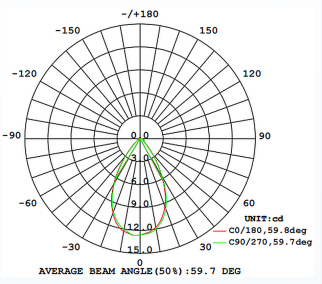
BEAM ANGLE 20°



BEAM ANGLE 30°



BEAM ANGLE 60°

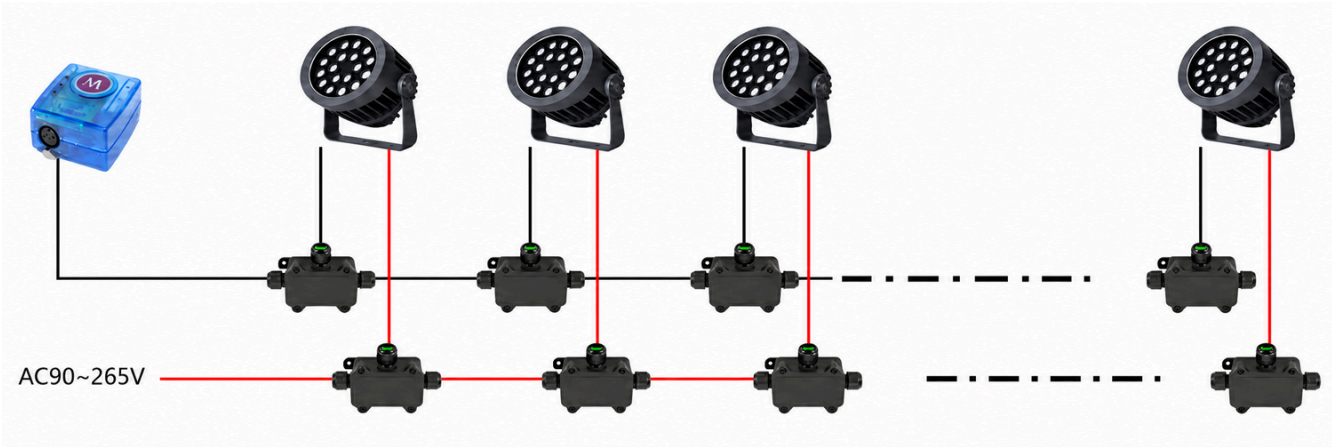


SYSTEM DIAGRAM

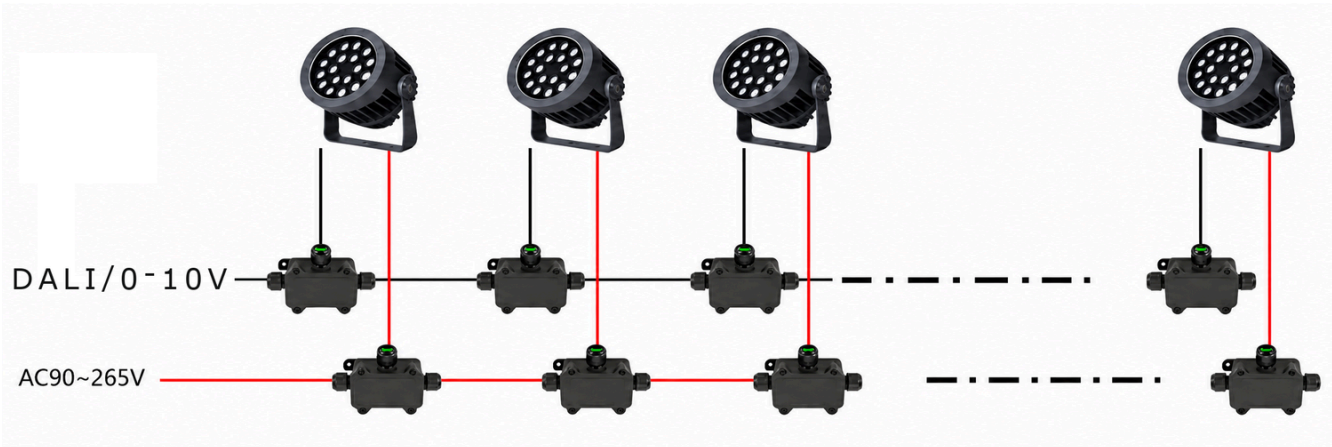
WIRING TOPOLOGY

ON/OFF

Built-in DMX



DALI 0-10V



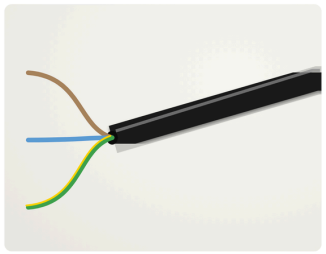
WIRE COLOUR DEFINITION

TG001F

WIRING COLOUR / DESIGNATION REFERENCE

Non-Dimmable Line Voltage 220 to 240 Vac - International

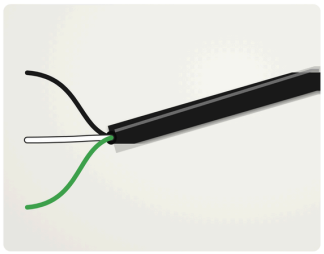
DESIGNATION	COLOR
Line	Brown
Neutral	Blue
Ground/Earth	Green/ Yellow



WIRING COLOUR / DESIGNATION REFERENCE

Non-Dimmable Line Voltage 120/277 Vac - North America

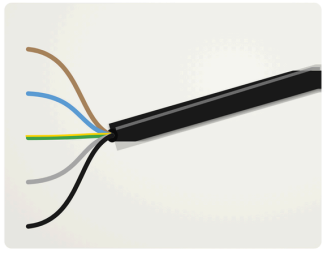
DESIGNATION	COLOR
Line	Black
Neutral	White
Ground/Earth	Green



WIRING COLOUR / DESIGNATION REFERENCE

DALI Line Voltage 220 to 240 Vac - International

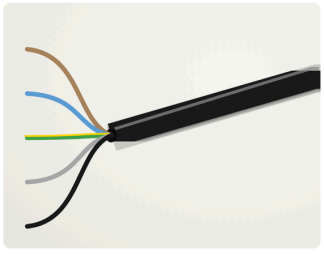
DESIGNATION	COLOR
Line	Brown
Neutral	Blue
Ground/Earth	Green/ Yellow
DALI+	Grey
DALI-	Black



WIRING COLOUR / DESIGNATION REFERENCE

0-10 V Line Voltage 220 to 240 Vac - International

DESIGNATION	COLOR
Line	Brown
Neutral	Blue
Ground/Earth	Green/ Yellow
0-10V+	Grey
0-10V-	Black



INSTALLATION & USAGE NOTES

PRECAUTIONS

OBSERVE THE FOLLOWING PRECAUTIONS WHEN INSTALLING AND OPERATING THE LUMINAIRE

- Installation and wiring must be carried out by a qualified electrician in accordance with local electrical codes and these instructions.
- Operate the luminaire only on the rated low-voltage DC supply (see Technical Parameters); never connect it directly to mains voltage.
- Do not energise the luminaire out of water for extended periods — dry operation may cause overheating and shorten LED life.
- Inspect cables, seals and glands periodically; damaged sheaths or ageing seals must be replaced immediately by qualified personnel.
- Always isolate the power supply before installation, maintenance or lamp replacement; verify the circuit is de-energised before touching any connector.
- All cable entries, glands and junction boxes must be properly sealed to keep the IP68 rating; use only the supplied or approved waterproof connectors.
- Maintain pool / water-feature water chemistry (pH and chlorine levels) within normal ranges to preserve the SUS316 stainless-steel housing and trims.
- Use only genuine LESAN replacement parts; any unauthorised modification voids the warranty.