

# DARKLIGHT DESIGN

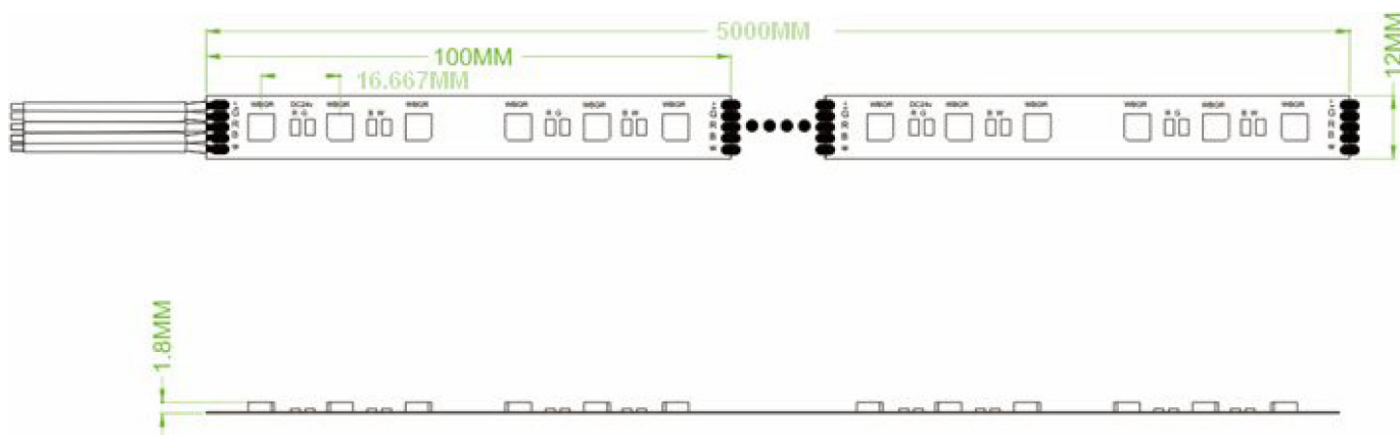
## DARKLIGHT DESIGN

LIGHTFLOW 24V 19W/m RGBW

LINEAR LED STRIP



### DIAGRAM



### PRODUCT OVERVIEW

- Light source: 5050 SMD SANAN (Philips) LED
- LED quantity: 60LED/m
- PCB width: 12mm
- Voltage: 24V
- Radiance Angle: 120°
- 3M self-adhesive tape on the back
- Trimmable every 6 LEDs along the cut-mark
- Dimmable with PWM compatible dimmer

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### TECHNICAL SPECIFICATIONS (FOR OVERALL MODULE)

Colour	RGBW
IP Rating	IP20
CRI	-
Voltage	24V
Power	92W
Rated Power	19.2W/m
Current	3.833A
Rated Current	800mA/m
Luminous Flux	7470lm
Radiance Angle	120°
Length	5000mm

### TECHNICAL SPECIFICATIONS (PER METRE)

Colour	3000K	R	G	B
CRI	>80	-	-	-
LED/m	60	60	60	60
W/m	4.8W/m	4.3W/m	4.7W/m	4.3W/m
Lm/m	360lm/m	89lm/m	226lm/m	66lm/m
Lm/W	75lm/w	20.7lm/w	48lm/w	15.3lm/w
Shipping Units	1/5	1/5	1/5	1/5

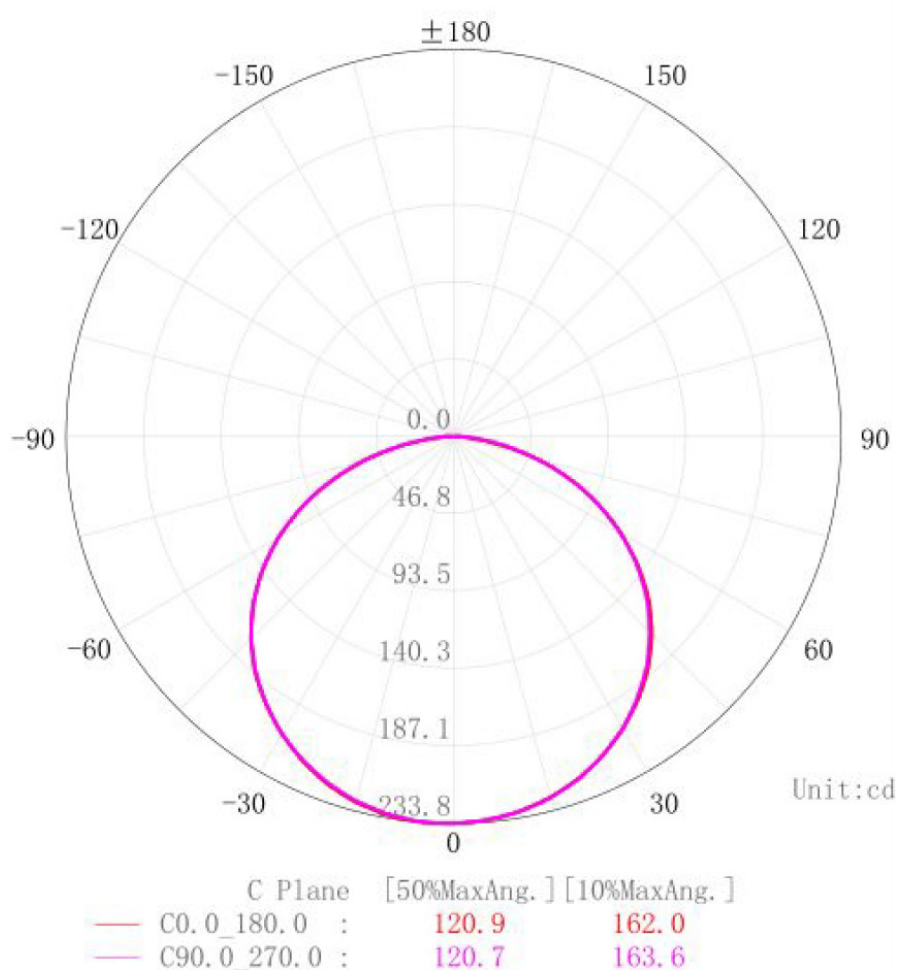
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## C PLANE DISTRIBUTION DIAGRAM

C Plane Distribution Diagram



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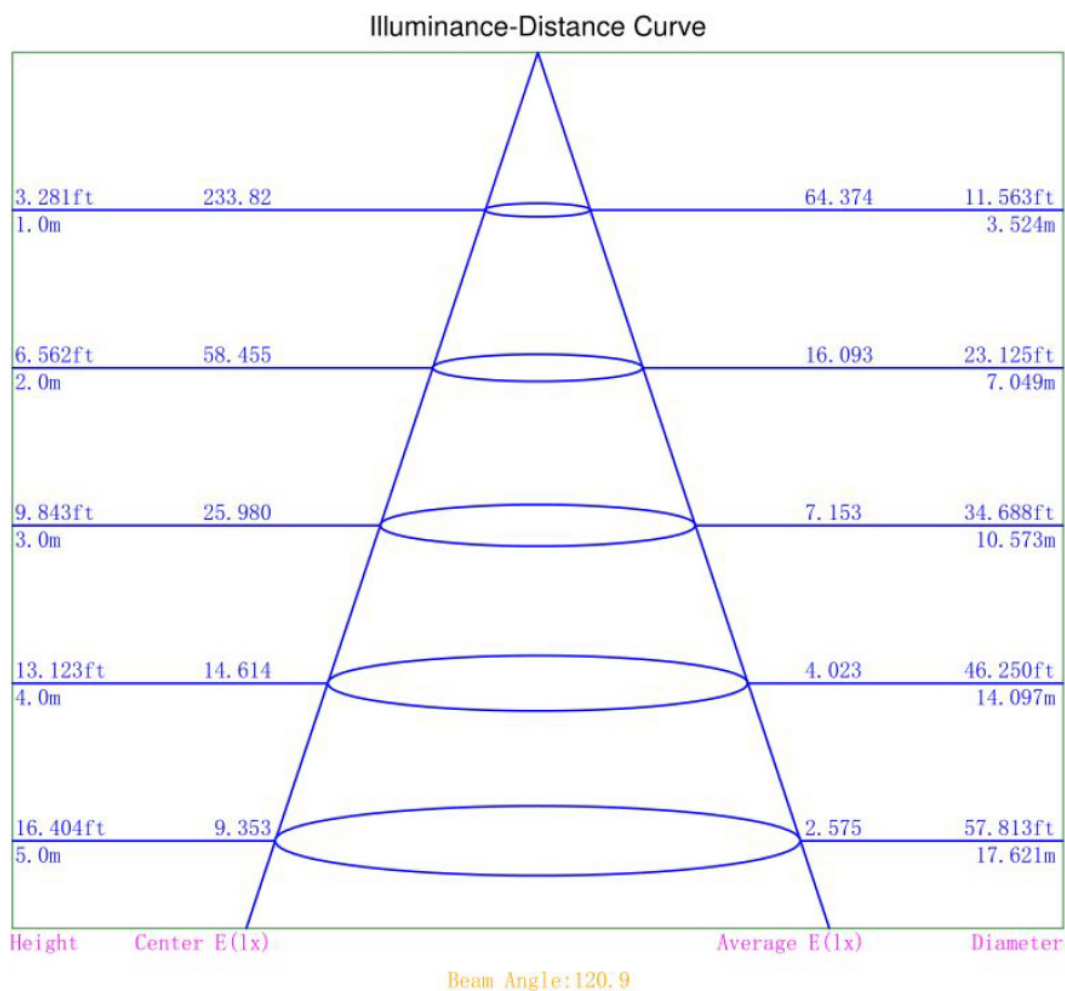
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### LUX TEST DIAGRAM



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### PLEASE NOTE

- Installation of LED modules (with power supplies) needs to be made in accordance with all applicable health and safety standards. Only qualified personnel should be allowed to perform installations
- Assembly must not damage or destroy conducting paths on the circuit board.
- Observe correct polarity
- Please ensure that the power supply is of adequate power to operate the total load
- When mounting on metallic or otherwise conductive surfaces, there needs to be an electrical isolation at soldering points between module and the mounting surface
- The maximum run length from any power feed should be limited to 5000mm
- Soldering of wires with the module mounted on a heatsink: Pre-tin solderpads and wires and solder for max 3 s at 350 °C. Allow solderpoints to completely cool down before the next soldering. Prevent shear- or peel forces
- The mounting of the module is facilitated by means of the double-sided adhesive on the back-surface of the module. Care must be taken to provide a clean and dry mounting surface, free of oils or silicone coatings as well as dirt particles. The mounting substrate must have sufficient structural integrity. Take care to completely remove the protective film. Once the module is appropriately positioned, press on the module with about 20N/cm<sup>2</sup> (refer to application techniques of 3M adhesive transfer tapes)
- The minimum bending radius is 20mm
- When installing in environments with large variations in temperature and operating length of more than 2m, the use of metallic mounting surfaces is necessary. Otherwise it is advisable to use an additional thicker adhesive tape to absorb the stress of any mismatch in expansion coefficients

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