

COB RGB+CCT LED Strip

18W/m, 840 LEDs/m, 24VDC



COB-RGBWW-18-20 Series



Features

1. High positioning, high reliability, ultra-thin appearance, and super flexible bending.
2. Homogenous and soft linear lighting performance for 5M run length.
3. Uses thick copper that is superior to other products on the market to ensure consistency in voltage and brightness for the entire reel.
4. Adopting an exclusively designed protective structure, with excellent bending resistance, strong reliability, and stable quality.

Application

Indirect for indirect lighting applied at contour, corridor, stair, cove, handrail, skirting, barrier, etc.



07 3390 3302

www.rmscomponents.com.au

sales@rmscomponents.com.au

174B Wecker Rd Mansfield QLD 4122

Specifications

General Parameters

Length	5M
Cutting Increments	41.7mm
Light Source	COB (Chip on Board) & CSP (Chip Scale Package)
LED Qty	840LEDs/m
PCB Type	3oz White FPC, OSP
Operating Temperatures	Ta (working): -25~45° Tstg (storage): -25~60°
IP Rating	IP20
Warranty	2 Year
Lifespan	50,000 Hours
Certification	CE, CB, SAA, UL, RoHS

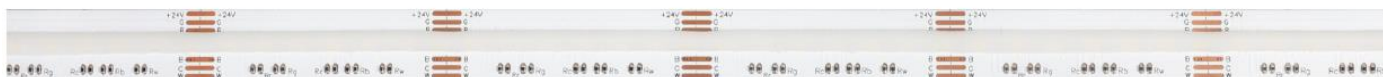
Photoelectric Parameters

Watts	18W/m (3.6W/m each colour)
Input Voltage	24VDC
Lumens	Colour Mix: 990LM/m, Red: 100LM/m, Green: 255LM/m, Blue: 60LM/m, 2700K (Warm White): 280LM/m, 6300K (Cool White): 295LM/m
LED CCT	CCT: 2700-6300K Red: 620-630nm, Green: 520-530nm, Blue: 450-460nm
SDCM	5 Step in 1 Bin
CRI	CCT: Ra≥90
Beam Angle	150°
Dimming Method	PWM, 0/1-10V, Triac, DALI, DMX, WIFI, RF, Bluetooth

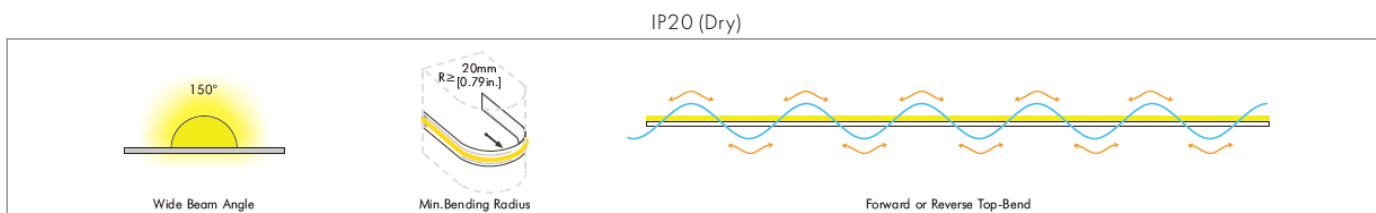
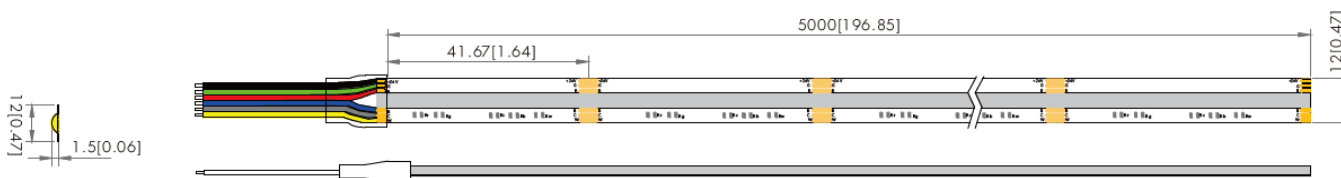
Power & Brightness VS Length Characteristics (Power fed from one side)

LED Length	1M	2M	3M	4M	5M
Actual Measured Power	16.4W	30.7W	42.2W	53.6W	60.1W
Power Maintenance Rate	100.0%	95.3%	85.8%	81.7%	73.3%
Brightness Maintenance Rate	96.7%	91.7%	83.5%	75.1%	65.8%

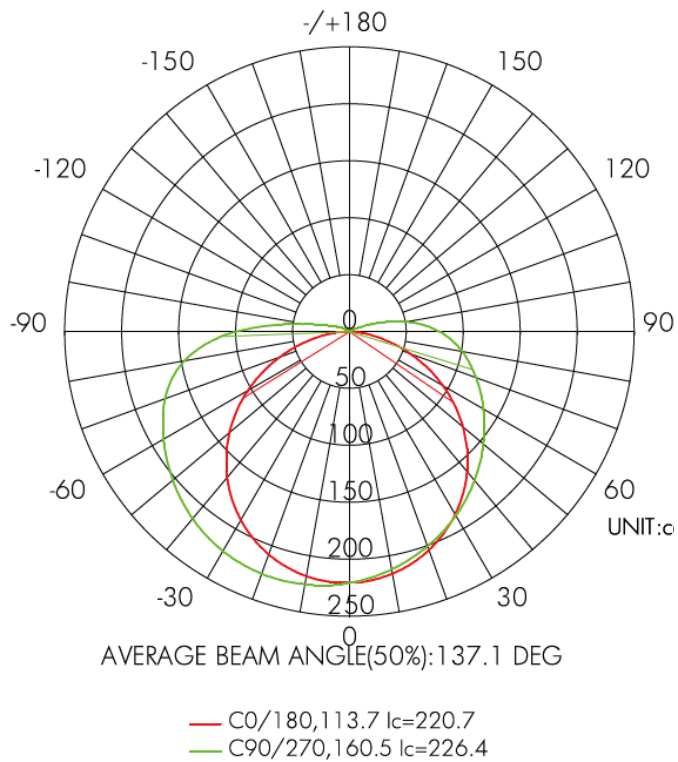
Picture & Diagram



Unit: mm[in.]



Light Distribution Diagram

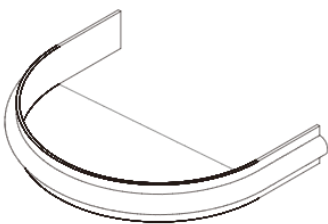


Flux out : 513.1 lm

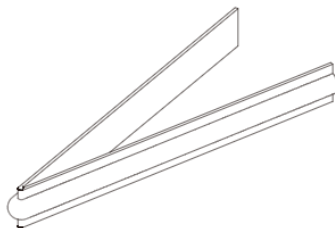
Height	Eavg, Emax	Angle: 113.67deg	Diameter
1m	68.87, 222.6lx		306.03cm
2m	17.22, 55.65lx		612.07cm
3m	7.653, 24.73lx		918.10cm
4m	4.305, 13.91lx		1224.14cm
5m	2.755, 8.904lx		1530.17cm
6m	1.913, 6.183lx		1836.21cm
7m	1.406, 4.543lx		2142.24cm
8m	1.076, 3.478lx		2448.28cm
9m	0.8503, 2.748lx		2754.31cm
10m	0.6887, 2.226lx		3060.35cm

Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

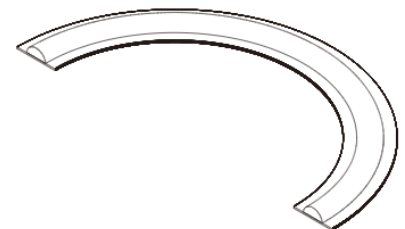
Notes on Handling



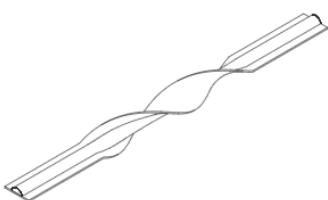
DO NOT bend strip to a diameter less than 50mm



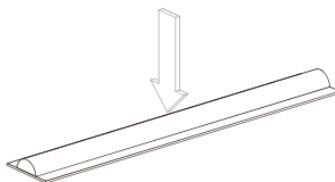
DO NOT fold or crease strip



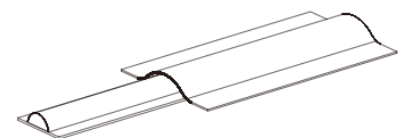
DO NOT bend strip on a horizontal plane



DO NOT over twist strip



DO NOT put excessive pressure on surface of LED



DO NOT cover strip with any materials

1. The mounting surface must be clean, dry, and free from dust or grease.
2. Release the LED strip from the package and unreel.
3. Measure and cut the LED strip to the required length (only cut at the cut marks with power OFF).

4. Remove the 3M self-adhesive backing tape from the strip gradually during installation. DO NOT remove it all at once to avoid the strip becoming entangled and sticking to itself.
5. Stick the LED strip to the mounting surface by pressing on the strip in between components only. DO NOT press on the LEDs or other components on the strip.
6. Once the strip is affixed, it is then ready to be wired.



CAUTION - Twisting, pressing on LEDs, over-bending the strip, cutting at non-cut points, incorrectly powering the strip or exposing a standard strip (IP20) to water, particles or direct sunlight will invalidate the warranty.

Safety

1. Installation must be in accordance with local and Australian electrical regulations.
2. To ensure safety and correct installation, our strips are intended to be installed by a licensed electrician.
3. Only install with a Constant Voltage LED driver.
4. Each maximum run requires a dedicated power feed from the driver.
5. DO NOT extend beyond the recommended maximum run length.
6. Make sure the appropriate gauge wire is installed between driver, LEDs, and any dimmers. When choosing wire, calculate voltage drop, maximum amperage rating, and the location ratings on the wire.
7. Improper wire selection and installation could overheat wires and cause fire.
8. DO NOT modify product beyond instructions or warranty will be void.



Questions? Please contact us via sales@rmscomponents.com.au