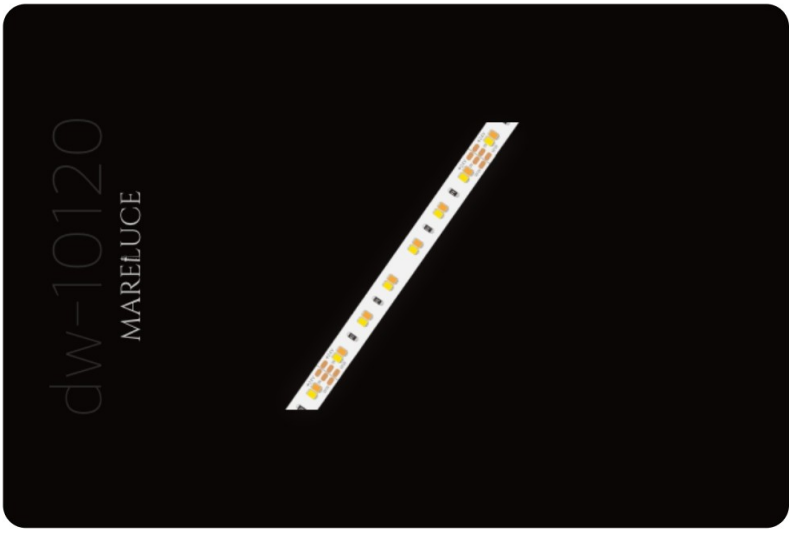
LED STRIP · DYNAMIC WHITE · 2835 SMD

DW-10120

10 mm tunable-white LED strip, 2700K–6000K, 120 LEDs/m, 24 W/m · 12 / 24 V DC



PCB WIDTH 10 mm	POWER 24 W/m
VOLTAGE 12 / 24 V DC	CUT UNIT (24 V) 100 mm
CCT RANGE 2700–6000K	MIN. BEND RADIUS 50 mm

Overview

DW-10120 is a 10 mm dynamic-white LED strip with 120 2835 LEDs per metre, mixing warm 2700K and cool 6000K LEDs so the colour temperature can be tuned from warm to cool with a two-channel controller. With both channels on it delivers up to 2750 lm/m at 24 W/m, for saloons, cabins and galleys where the light should follow the time of day. Available for 12 or 24 V DC, in CRI 80 and CRI 90 versions, PWM dimmable.

Specifications

Dimension	5000 × 10 × 1.2 mm (5 m reel)
LED	2835 SMD, 120 LEDs/m (warm + cool white)
Cut unit	12 LEDs / 100 mm (24 V) · 6 LEDs / 50 mm (12 V)
Power	24 W/m, both channels on
Current	1 A/m (24 V) · 2 A/m (12 V)
Colour temperature	2700K to 6000K, tunable
Colour rendering	CRI 80 or CRI 90
Beam angle	120°
Dimming	PWM, two channels (WW / CW)
PCB	2 oz copper, high-thermal 3M adhesive
Lead wire	150 mm, 3-core, 20 AWG
Min. bend radius	50 mm
Ambient temperature	−20 °C to +50 °C
Protection	IP20 standard; IP52, IP65H, IP65, IP67, IP67E, IP68 on request

Cut Unit



ORDERING INFORMATION

Product Code

DW-10120	2700–6000K	CRI 90	24 V
MODEL	COLOUR TEMPERATURE	COLOUR RENDERING	VOLTAGE
	Tunable white	CRI 80 · CRI 90	12 · 24 V DC

Specify CRI and supply voltage when ordering. Example: **DW-10120**, CRI 90, 24 V DC. Requires a two-channel (tunable white) controller.

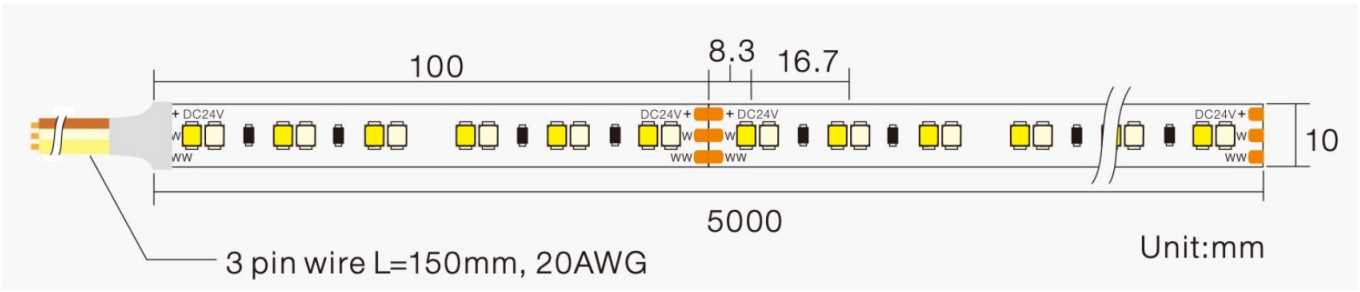
Photometric Data

CHANNEL	CCT	LM/M CRI 90	LM/W CRI 90	LM/M CRI 80	LM/W CRI 80
Warm white only	2700K	1126	93.8	1320	110.0
Cool white only	6000K	1171	97.6	1430	119.2
Both channels	2700K + 6000K	2294	95.6	2753	114.7

Measured on IP20 strip at 24 V DC, full output. Other CCT combinations (2100K, 2400K, 3000K warm channel) on request.

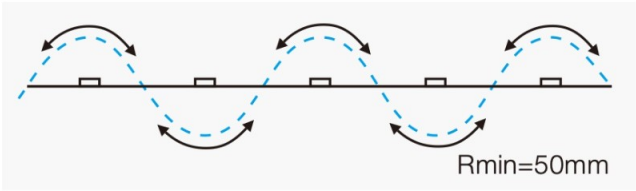
DIMENSIONS & INSTALLATION

Dimensions (unit: mm)



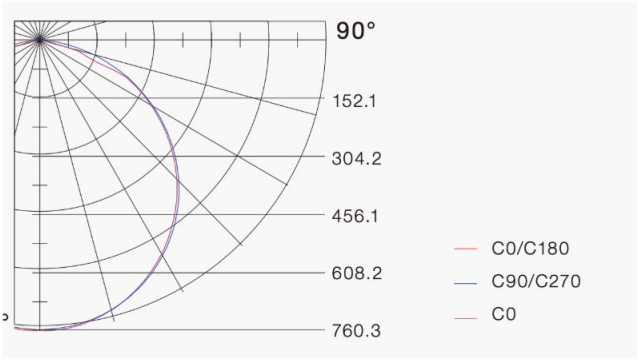
5 m reel, 10 mm PCB; cut marks every 100 mm (24 V) or 50 mm (12 V); 150 mm 3-core lead wire, 20 AWG.

Bending



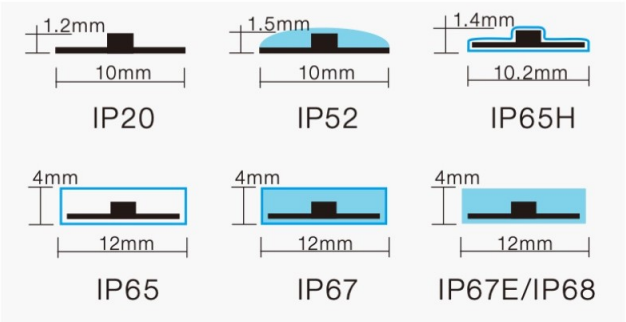
Flexible strip; minimum bend radius 50 mm. Do not bend at the cut marks.

Polar Curve



Reference: IP20, CRI 90.

Waterproof Versions



VERSION	CONSTRUCTION	SIZE (W × H)
IP20	Bare PCB	10 × 1.2 mm
IP52	Silicone coating	10 × 1.5 mm
IP65H	Heat-shrink tube	10.2 × 1.4 mm
IP65	Silicone tube	12 × 4 mm
IP67	Silicone tube, filled	12 × 4 mm
IP67E / IP68	Solid silicone extrusion	12 × 4 mm

Light output and power may vary by up to ±10% due to production and component tolerances.