COLORS®

FREE CUTTING Series | Specification
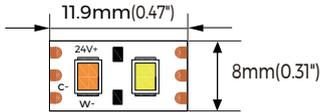
C8168SWW
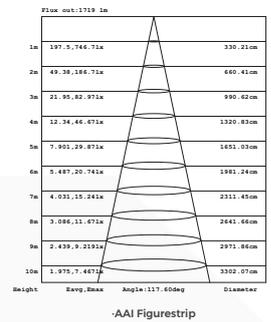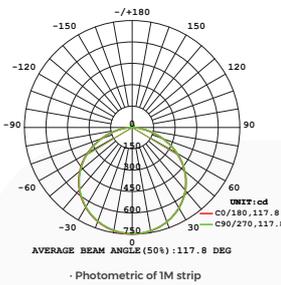## 24V-8mm

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UL E498657 | UKCA | CE | RoHS | Reach

【General description】

· Free cutting and connecting by soldering-free connectors
· Tunable white with high lumen
· Mini cut unit up to 11.9mm
· Parameter matches with traditional ones,better
for stock management
· With life span over 60000H
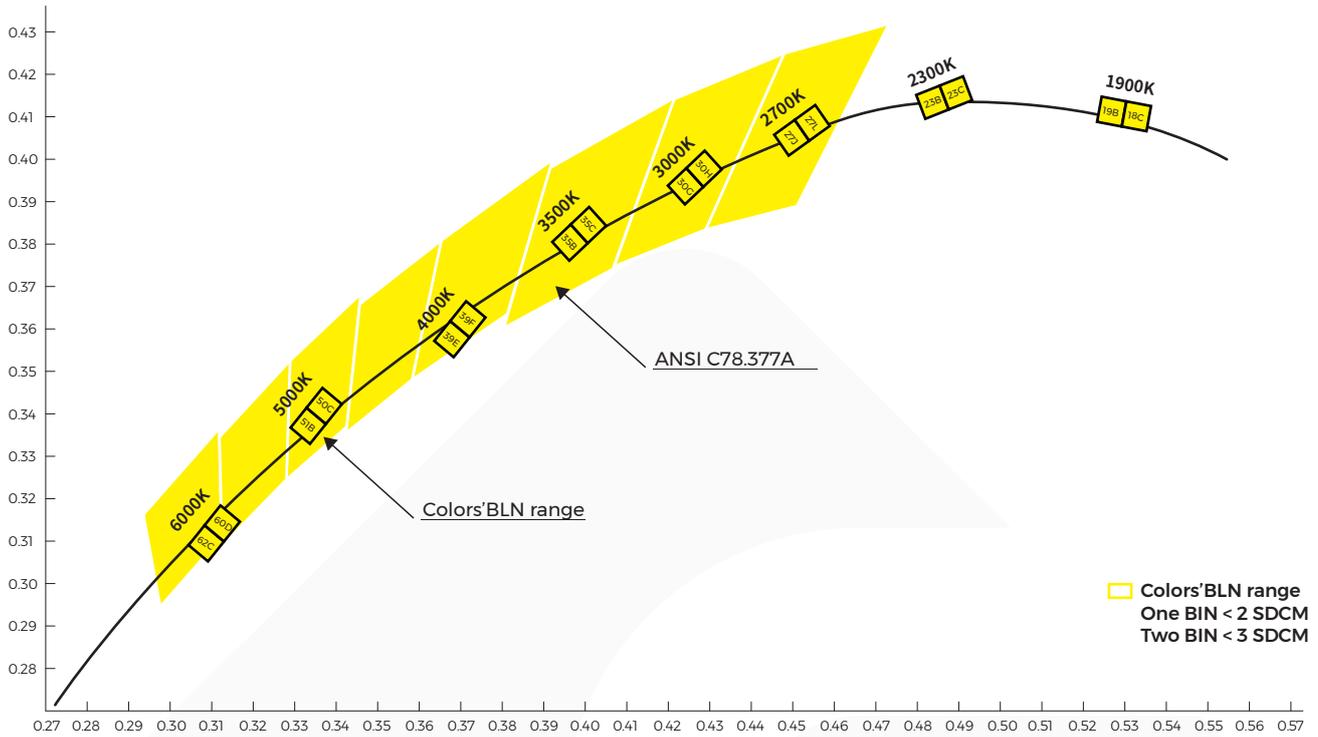· Ta: -25~40℃；Tc：75℃(max)
· UL/UACK/CE/ROHS/REACH certification

11.9mm(0.47")

24V+
C-
W-

8mm(0.31")

【Dimension】

Input voltage：DC24V
CRI：90
Max.power: 19.8W(1m)
Power range: 16.2～19.8W(1m)
Rated current: 0.92A(1m)
Typical Power: 18W(1m)
tape IP： IP20/IP65/IP67
On-off times: 10000 （test times）
Warranty： 7 years indoor / 5 years outdoor

Max.length： 5000mm(16.4')
Cutting unit： 2leds/11.9mm(0.47")
LED pitch： 5.95mm(0.23")
Min. bend diameter： Φ60mm(2.36")
Mounting： 3M tape
Copper foil: 3oz

· Photometric of 1M strip

· AAI Figurestrip

【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>90	LW	2300K	1010	304	112	E
Ra>90	SW	2700K	1125	340	125	E
Ra>90	NW	4000K	1215	367	135	E
Ra>90	W	6000K	1170	353	130	E
Ra>90	LWNW	2300+4000K	2200	664	122	E
Ra>90	SWW	2700+6000K	2305	695	128	E

1.The tolerance of output data can be vary up to 10%.
2.the output data tested according to IES TM-30-15.
3.the output data is based on IP20/1merter，data of 5m in only for reference.
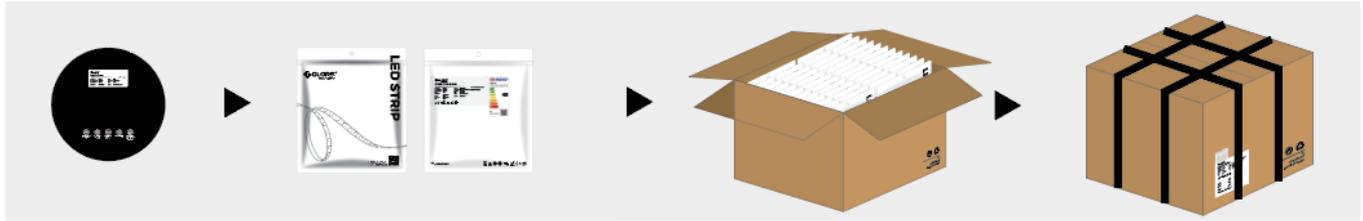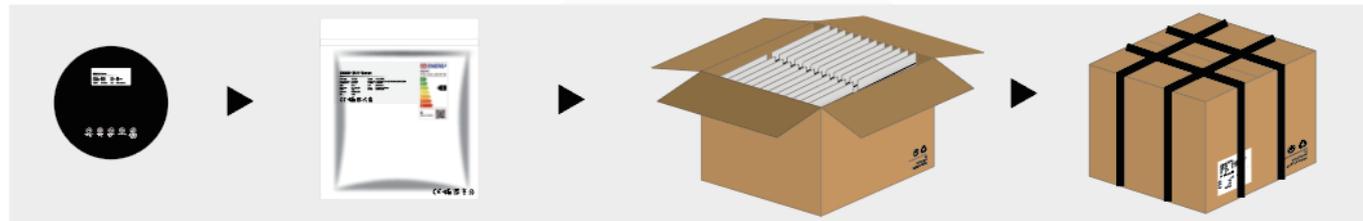4.IP protection process leads changes to size, CCT and luminous flux.

0.43
0.42
0.41
0.40
0.39
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0.31
0.30
0.29
0.28

0.27 0.28 0.29 0.30 0.31 0.32 0.33 0.34 0.35 0.36 0.37 0.38 0.39 0.40 0.41 0.42 0.43 0.44 0.45 0.46 0.47 0.48 0.49 0.50 0.51 0.52 0.53 0.54 0.55 0.56 0.57

6000K · 5000K · 4000K · 3500K · 3000K · 2700K · 2300K · 1900K

ANSI C78.377A

Colors'BLN range

Colors'BLN range
One BIN < 2 SDCM
Two BIN < 3 SDCM

【Electronic & output data】

IP Process	Picture	Picture description	Size	optional CCT/color for finished product	lumen output rate
NO	NO/IP20	No proof	8mm*1.5mm	2300+4000K/2700+6000K	100%
NA	NANO/IP65	Nano-proof	8mm*1.5mm	2300+4000K/2700+6000K	98%

【Packing】

Colors brand package

General customized package

IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box(kg)	Gross weight(kg)	Package size (cm)
NO	5000*81.5	5	250	0.161	8.05	9.257	41*41*26
NA	5000*8*1.5	5	250	0.164	8.2	9.43	41*41*26

Remark：data with 10% tolerance

· Engineering packaging of NO(IP20)/NA(IP65).

IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box(kg)	Gross weight(kg)	Package size (cm)
NO	50000*8*1.5	50	500	1.61	16.1	18.515	41*41*26
NA	50000*8*1.5	50	500	1.64	16.4	18.86	41*41*26

Remark：data with 10% tolerance

【Precautions】

· Please drive the led strip with 24VDC isolated power, and the ripple of the constant voltage source should be less than 5%.

· Please do not bend the strip into an arc with a diameter less than 60mm to ensure the longevity and reliability.

· Do not fold it in case any damage of LED beads.

· Do not pull the power wire hard to ensure the longevity. Any Crash may damage the LED light is prohibited.

· Please make sure the wire is connected to the anode and cathode correctly. The power output should be consistent with the voltage of the   strip to avoid damage.

· LED lights should be stored in dry, sealed environment. Please only unpack it before usage. Ambient temperature: -25℃~40℃. Storage temperature: 0℃~60℃. Please use the strips without waterproof within indoor environment with humidity less than 70%.

· Please be careful during operation. Do not touch the AC power supply in case of electric shock.

· Please leave at least 20% power for the power supply during using to ensure there is enough power supply to drive the product.

· Do not use any acid or alkaline adhesives to fix the product (e.g.: glass cement).

· Do not scratch the product when IP processof the product is NA. Ultraviolet rays will damage the nano-layers on the product and seriously affect the life of the product.