

Specification

D8160-24V-8mm



▼ General description

- Luminance efficiency up to 155LM/W
- Self-encapsulated design offers eight optional 1900-6000K white lights
- With life span over 60000H
- Ta: -25~40°C; Tc: 75°C (max)



▼ Dimension

Max.length: 5000mm

Cutting unit: 8leds/50mm(1.97")

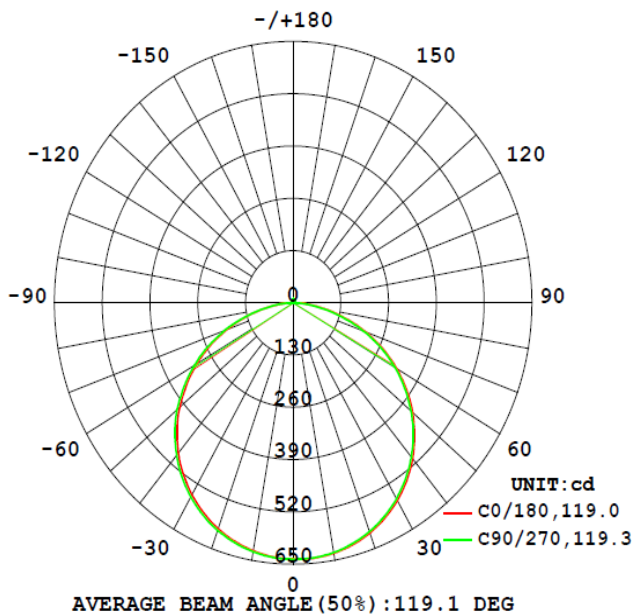
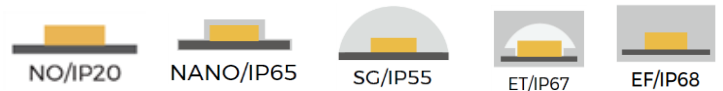
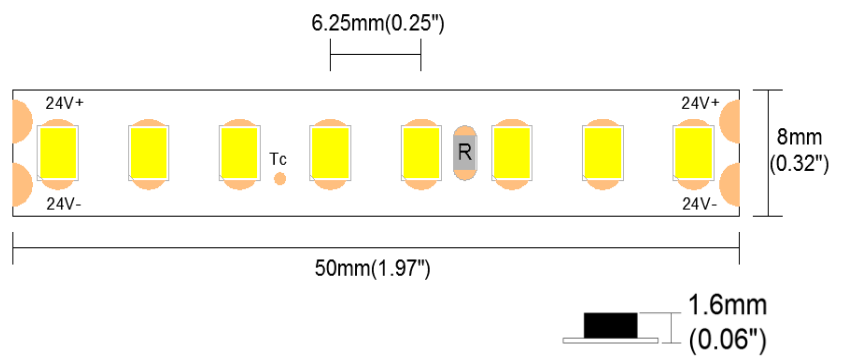
LED pitch: 6.25mm(0.25")

Min. bend diameter: Φ60mm

Mounting: 3M tape

IP: IP20/IP55/IP65/IP67/IP68

※Warranty: 5years



Photometric of 1M strip

Height	Eavg, Emax	Angle: 119.01deg	Diameter
1m	161.1, 638.31x		339.59cm
2m	40.28, 159.61x		679.18cm
3m	17.90, 70.921x		1018.78cm
4m	10.07, 39.891x		1358.37cm
5m	6.445, 25.531x		1697.96cm
6m	4.476, 17.731x		2037.55cm
7m	3.288, 13.031x		2377.15cm
8m	2.518, 9.9731x		2716.74cm
9m	1.989, 7.8801x		3056.33cm
10m	1.611, 6.3831x		3395.92cm

AAI Figure

※Warranty is based on indoor use

▼Electronic & output data

Input voltage: DC24V

Rated current: 0.45A(1m) /1.98A(5m)

Typical Power: 10.8W(1m) /47.8W(5m)

CRI: 80/90/95

Max.power: 12W(1m)

On-off times: 10000 (test times)

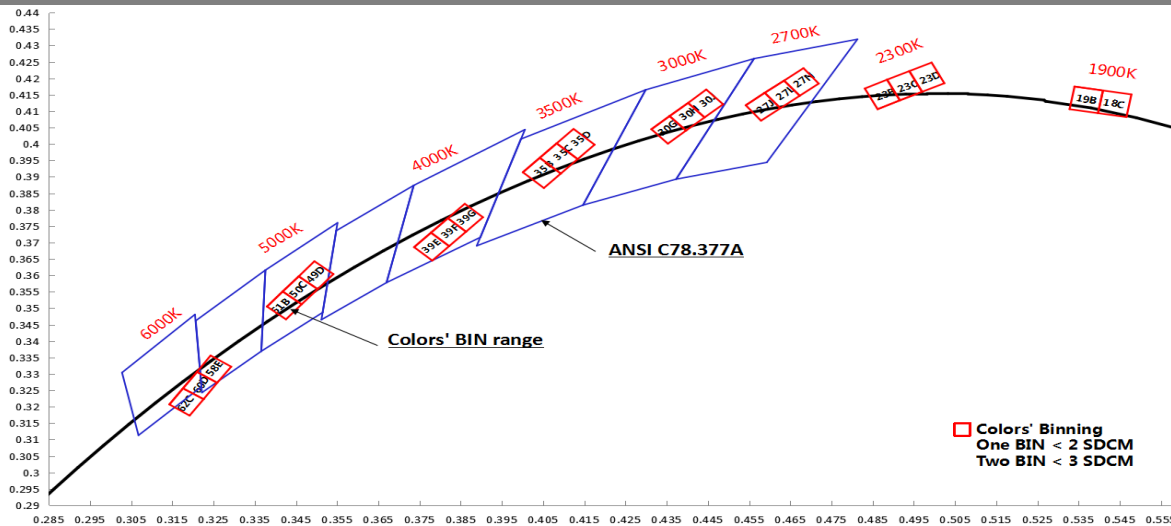
Power range: 9.7 ~ 12W(1m)

Copper foil: 3oz

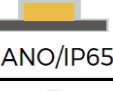
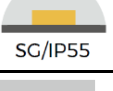
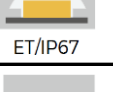
CRI	Color	CCT	Lumen(lm)	lm/W	Energy efficiency class
Ra>80	GW	1900K	1270	118	F
Ra>80	LW	2300K	1410	131	E
Ra>80	SW	2700K	1520	141	E
Ra>80	WW	3000K	1610	149	E
Ra>80	PW	3500K	1630	151	E
Ra>80	NW	4000K	1670	155	E
Ra>80	DW	5000K	1670	155	E
Ra>80	W	6000K	1610	149	E
Ra>90	SW	2700K	1250	116	F
Ra>90	WW	3000K	1310	122	F
Ra>90	PW	3500K	1340	124	F
Ra>90	NW	4000K	1370	127	F
Ra>90	DW	5000K	1370	127	F
Ra>90	W	6000K	1310	122	F
Ra>95	SW	2700K	1220	113	F
Ra>95	WW	3000K	1280	119	F
Ra>95	NW	4000K	1330	124	F
0	G	525nm	970	90	/
0	B	470nm	210	20	/

- 1.The tolerance of output data can be vary up to 15%
- 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

▼BIN



▼IP Process

IP Process	Picture	description	Size	optional CCT/color for finished product	lumen output rate
NO		No proof	8mm*1.6mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	100%
NA		Nano-proof	8mm*1.7mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	98%
SG		Gel coating	8mm*2.7mm	2300K/3000K/3500K/4000K/6000K/10000K/15000K/G/B	90%
ET		Extrusion tube	10mm*4.8mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	88%
EF		Extrusion filling	10mm*5mm	2300K/2900K/3400K/3850K/5800K/8750K/15000K/G/B	86%

▼Accessories Information

Name	Picture		Code	description
Connector for wire and FPC			94-42-620800001	8mm width, 2PIN connector of wire and FPC,suitable for white color strip, NO/NA,2PIN wire18- 22AWG
Connector for FPC and FPC			94-42-620800002	8mm width, 2PIN connector of FPC and FPC,suitable for white color strip,NO/NA
Connector for wire and FPC			94-03-00-0044	8mm width, 2PIN connector of wire and FPC,suitable for white color and gel coating strip,SG,2PIN wire18- 22AWG
Connector for FPC and FPC			94-03-00-0048	8mm width, 2PIN connector of FPC and FPC,suitable for white color and gel coating strip,SG

Slim connector		94-03-00-0065	TSC-08-2, suitable for 8mm fpc to fpc connection , IP20, 2pin, 10pcs per bag
FPC with wire		94-03-00-0066	wire connection when using together with TSC-08-2,IP20,2PIN, 10PCS per bag
Fixed Clip		94-02-00-0002	Silicone clip, screw: PA 3*8mm, suitable for 8mm FPC,EH/EF/ET strip
Fixed Clip		94-02-00-0017	Fixed clip, transparent, 3*8mm self-tapping screws, suitable for 8mm FPC,NO/NA LED strip
Fixed Clip		94-02-00-0015	Fixed clip, transparent, 3*8mm self-tapping screws,suitable for 8mm FPC,SG LED strip
Silicone end cap set		94-02-00-0021	including end cap and plug,suitable for 8mm FPC,EH/ET/EF silicone extrusion strip
Mounting groove		94-02-00-0024	Transparent PVC mounting groove,suitable for 8mm FPC,silicone extruded EF/ET strip
Stopper glue		94-16-03010001	Silicone gel,suitable for ST/ET/EH/EF/SF waterproof LED strip

▼Order Code Formats

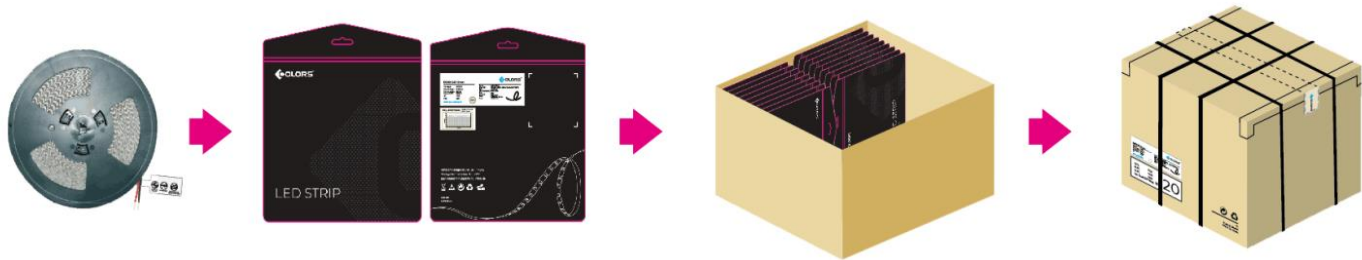
1: Category		2: LED		3: LED/m		4: Voltage		5:FPC Width		6: IP Process		7: CRI		8: CCT	
D	-	8	2835	160	160 LED	24	24V	08	8mm	NO	NO	8	> 80	GW	1900K
										NA	NANO	9	> 90	LW	2300K
										SG	Gel coating	H	> 95	SW	2700K
										ET	Extrusion tube	0	0	WW	3000K
										EF	Extrusion filling			PW	3500K
														NW	4000K
D	-	8	2835	160	160 LED	24	24V	08	8mm					DW	5000K
														W	6000K
														G	Green
														B	Blue
D	-	8	2835	160	160 LED	24	24V	08	8mm	NO	NO	8	> 80	GW	1900K

9: Silk Printing		10: Entry cable		11: Wire type		12: Wire length		13: Tape type		14: Label Type		15: Strip Length	
N	Neutral	S	Single	A	red and black cable	012	12cm	W	White 3M	C	COLORS	0500	5m
C	COLORS	D	Doubel	B	SM-male wire	020	20cm	Y	Yellow 3M	S	Customized	5000	50m
S	Customized	X	Nothing	C	SM-female wire	050	50cm	R	Red tape				
				X	Nothing	100	100cm	X	Nothing				
						0	Nothing						
N		S		A		012		W		C		0500	

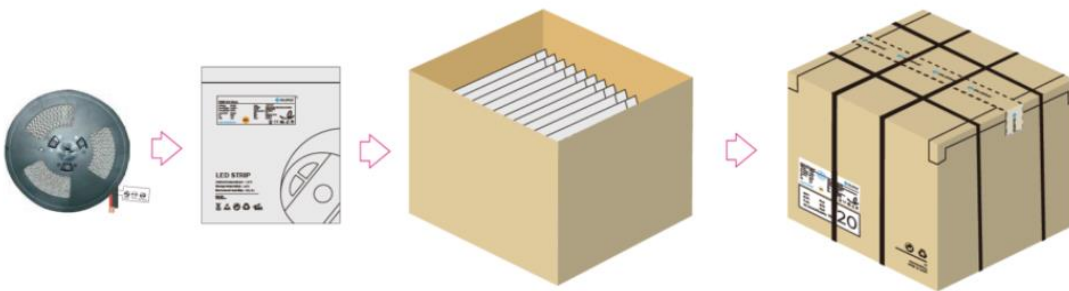
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▼ Packing

Colors brand package



General customized package

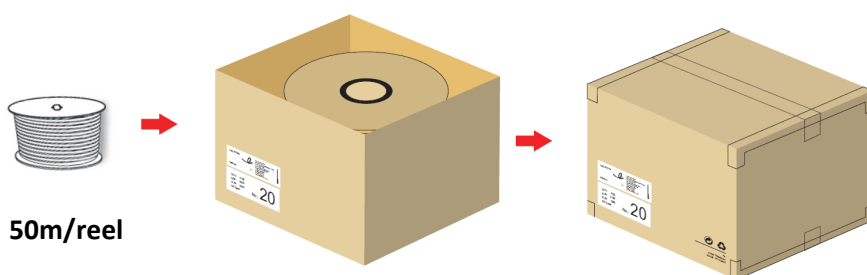


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	5000*8*1.6	5	300	0.14	8.4	9.66	41*41*26
NA	5000*8*1.7	5	300	0.143	8.58	9.867	41*41*26
SG	5000*8*2.8	5	300	0.228	13.68	15.73	41*41*26
ET	5000*10*4.8	5	200	0.465	18.6	21.378	41*41*26
EF	5000*10*5	5	200	0.511	20.44	23.506	41*41*26

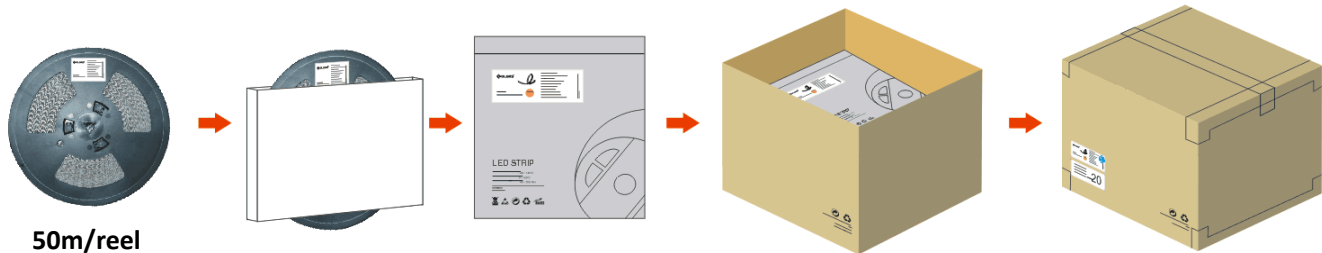
Remark: data with 10% tolerance

Engineering packaging of ET(IP67)/EF(IP68)

(free-soldering end caps with 40 cover per box could be ordered separately if needed)



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*1.6	50	650	1.4	18.2	20.93	41*41*26
NA	50000*8*1.7	50	650	1.43	18.59	21.378	41*41*26
ET	50000*10*4.8	50	100	4.74	9.48	10.902	25.5*25.5*26
EF	50000*10*5	50	100	5.21	10.42	11.983	25.5*25.5*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°C~40°C.Storage temperature: 0°C~60°C.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).