Specification

D8160-24V-8mm

c UL us LISTED E498657

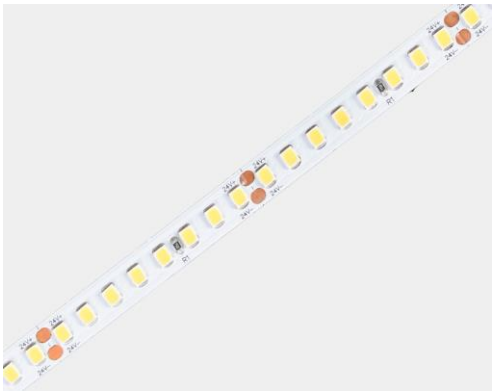
CE

RoHS

QUALITY ASSURED FIRM ISO 9001 SGS

▼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")

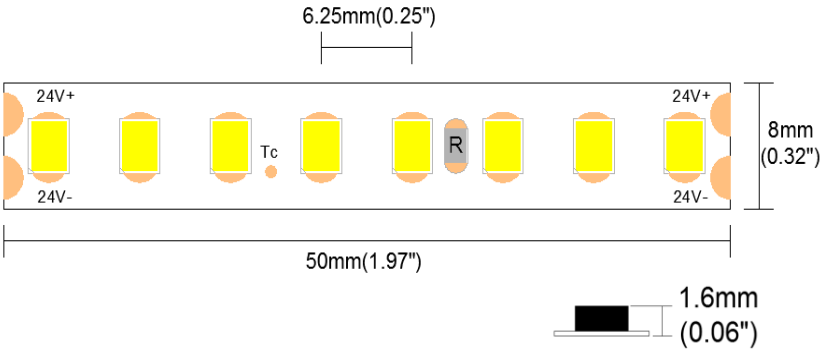
LED pitch: 6.25mm(0.25")

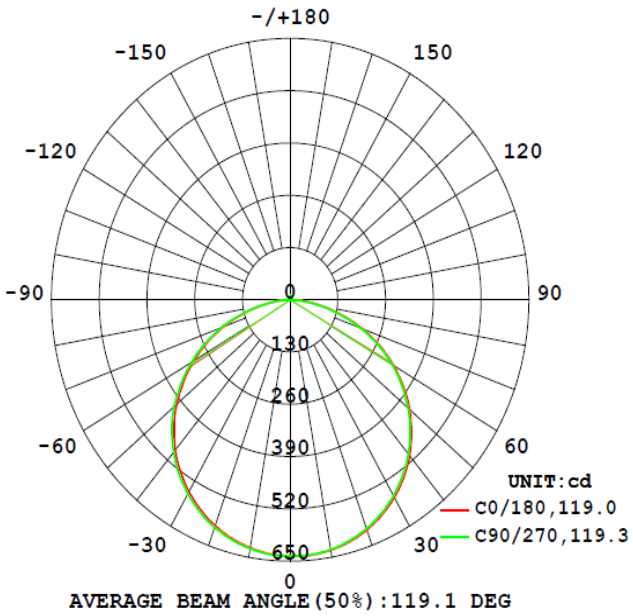
Min. bend diameter: Φ60mm

Mounting: 3M tape

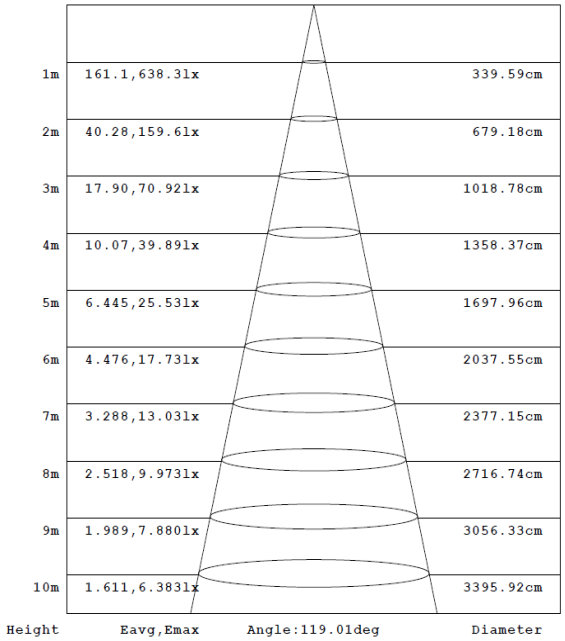
IP: IP20/IP55/IP65/IP67/IP68

※Warranty: 5years





Photometric of 1M strip



AAI Figure

※Warranty is based on indoor use

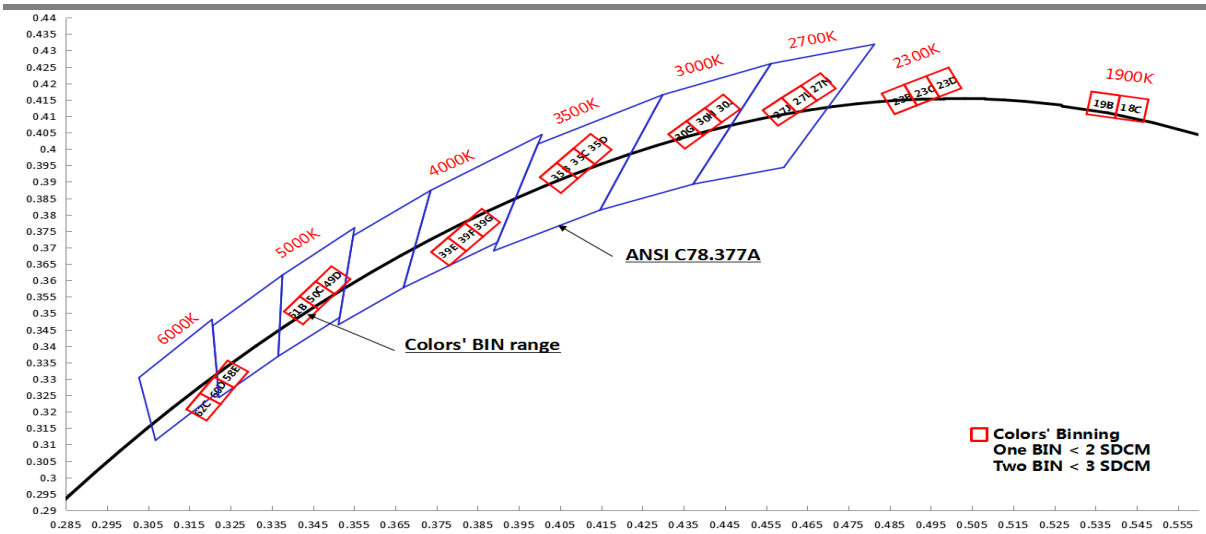
▼Electronic & output data

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/IP20	No proof	8mm*1.6mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	100%
NA	NANO/IP65	Nano-proof	8mm*1.7mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	98%
SG	SG/IP55	Gel coating	8mm*2.7mm	2300K/3000K/3500K/4000K/6000K/10000K/15000K/G/B	90%
ET	ET/IP67	Extrusion tube	10mm*4.8mm	1900K/2300K/2700K/3000K/3500K/4000K/5000K/6000K/G/B	88%
EF	EF/IP68	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

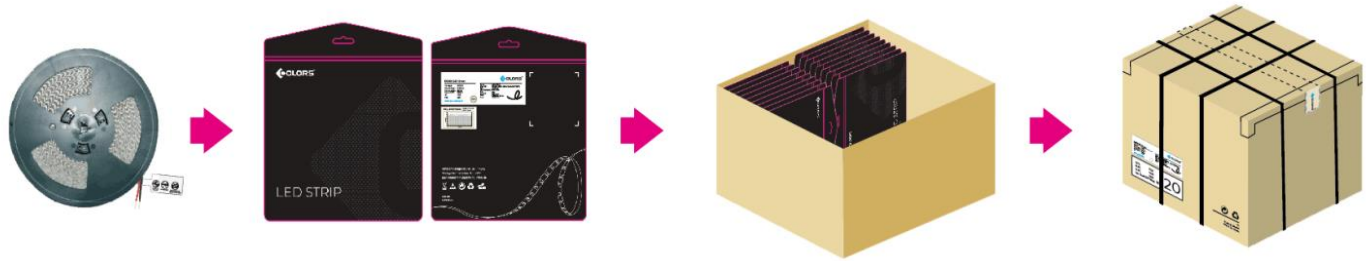
1: Category		2: LED		3: LED/m		4: Voltage		5:FPC Width		6: IP Process		7: CRI		8: CCT	
D	-	8	2835	160	160 LED	24	24V	08	8mm	NO	NO	8	> 80	GW	1900K
										NA	NANO	9	> 90	LW	2300K
										SG	Gel coating	H	> 95	SW	2700K
										ET	Extrusion tube	0	0	WW	3000K
										EF	Extrusion filling			PW	3500K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

9: Silk Printing		10: Entery 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	

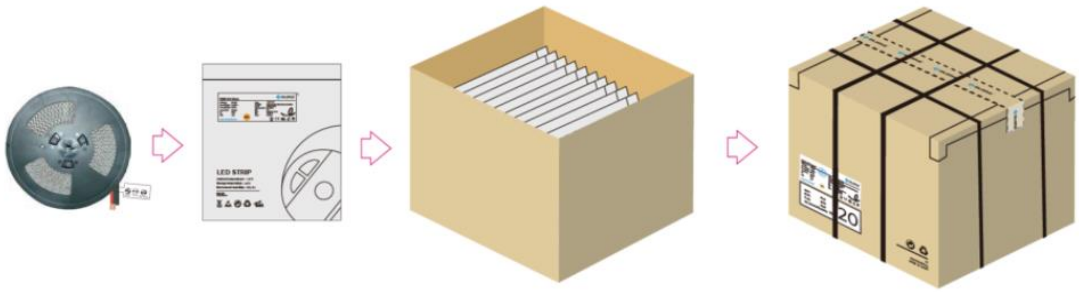
D81602408NO-8GWNSA012WC0500

▼Packing

Colors brand package



General customized package

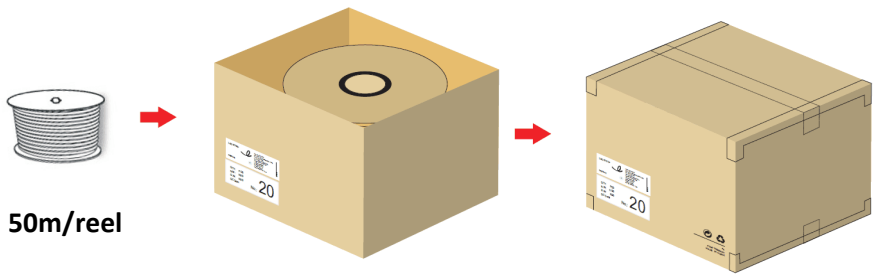


IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box (kg)	Gross weight (kg)	Package size (cm)
NO	5000*8*1.6	5	300	0.14	8.4	9.66	41*41*26
NA	5000*8*1.7	5	300	0.143	8.58	9.867	41*41*26
SG	5000*8*2.8	5	300	0.228	13.68	15.73	41*41*26
ET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

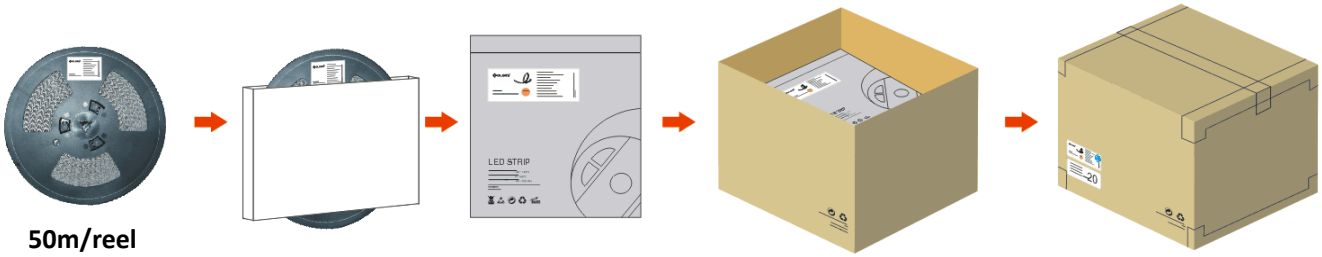
Engineering packaging of ET(IP67)/EF(IP68)

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



50m/reel

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



50m/reel

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℃~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).