HIGH EFFICIENCY Series | Specification

D864
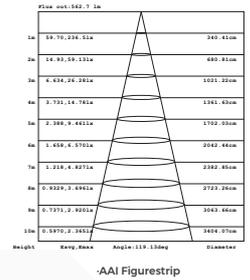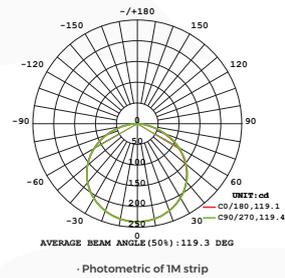## 24V-8mm

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UL cULus E498657 UKCA CE RoHS Reach

【General description】

· Luminance efficiency up to 160LM/W
· Self-encapsulated design offers eight optional 1900-6000K white lights
· With life span over 60000H
· Ta: -25~40℃；Tc：75℃(max)
· UL/UACK/CE/ROHS/REACH certification

15.6mm(0.62")
1.5mm (0.06")
8mm (0.32")
125mm(4.92")

【Dimension】

Input voltage：DC24V
CRI：80/90/95
Max.power: 4.8W(1m)
Power range: 3.8～4.8W(1m)
Rated current：0.18A(1m) /0.75A(5m)
Typical Power：4.3W(1m) /18W(5m)
tape IP：IP20/IP65/IP67
On-off times: 10000（test times）
Warranty：5 years indoor / 3 years outdoor

Max.length：5000mm(16.4')
Cutting unit：8leds/125mm(4.92")
LED pitch：15.6mm(0.62")
Min. bend diameter：Φ60mm(2.36")
Mounting：3M tape
Copper foil: 2oz

· Photometric of 1M strip

·AAI Figurestrip

【Photo-electric Parameters】

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>80	GW	1900K	510	155	119	F
Ra>80	LW	2300K	570	170	133	E
Ra>80	SW	2700K	620	190	144	E
Ra>80	WW	3000K	650	195	151	D
Ra>80	PW	3500K	660	200	153	D
Ra>80	NW	4000K	680	205	160	D
Ra>80	DW	5000K	680	205	160	D
Ra>80	W	6000K	650	195	151	D
Ra>90	GW	1900K	420	125	98	F
Ra>90	LW	2300K	470	140	109	F
Ra>90	SW	2700K	510	155	119	F
Ra>90	WW	3000K	540	160	126	E
Ra>90	PW	3500K	545	165	127	E
Ra>90	NW	4000K	560	170	130	E
Ra>90	DW	5000K	560	170	130	E
Ra>90	W	6000K	540	160	126	E

CRI	Color	CCT	Lumen(lm/m)	Lumen(lm/ft)	lm/W	ErP 2019
Ra>95	GW	1900K	415	125	97	F
Ra>95	LW	2300K	460	140	107	F
Ra>95	SW	2700K	495	150	115	F
Ra>95	WW	3000K	520	155	121	E
Ra>95	PW	3500K	530	160	123	E
Ra>95	NW	4000K	545	165	127	E
Ra>95	DW	5000K	545	165	127	E
Ra>0	G	525nm	410	125	95	/
Ra>0	B	470nm	85	25	20	/

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.

ANSI C78.377A

Colors'BLN range

Colors'BLN range
One BIN < 2 SDCM
Two BIN < 3 SDCM
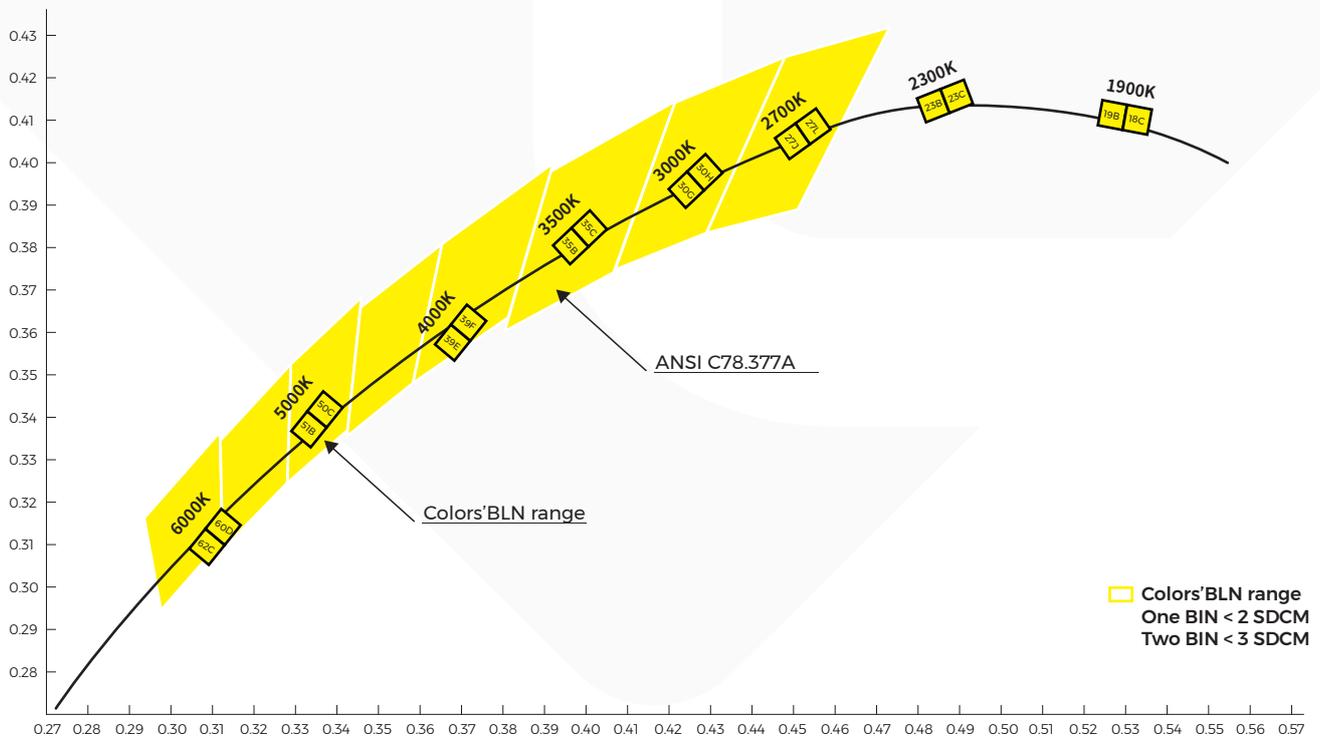
【IP process information】

ET

IP65
Gluing End Cap

9.5mm (0.37")
12mm (0.47")
32mm (1.26")
20mm (0.79")

IP67
Molded End Cap

3.7mm (0.15")
5mm (0.2")
5mm (0.2")
5.5mm (0.2")
20mm (0.79")
10.3mm (0.41")
3mm (0.12")

8mm (0.31")
10mm (0.39")

EG/EGR

IP65
Gluing End Cap

10mm (0.39")
9.3mm (0.37")
32mm (1.26")
16mm (0.63")

8mm (0.31")
9.3mm (0.37")

EF

IP65
Gluing End Cap

9.5mm (0.37")
12mm (0.47")
32mm (1.26")
20mm (0.79")

IP67
Molded End Cap

3.7mm (0.15")
5mm (0.2")
5mm (0.2")
5.5mm (0.2")
20mm (0.79")
10.3mm (0.41")
3mm (0.12")

8mm (0.31")
10mm (0.39")

【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	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	100%
NA	NANO/IP65	Nano-proof	8mm*1.5mm	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	98%
ET	ET/IP67	Extrusion tube	10mm*4.8mm	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	88%
EG	EG/IP65	Extrusion curved tube	9.3mm*3.8mm	1900K/2300K/2700K/3000K/3500K/ 4000K/5000K/6000K/G/B	88%
EGR	EGR/IP65	Milky white all-inclusive hollow arc extrusion	9.3mm*3.8mm	2300K/2700K/3000K/4000K/G/B	85%
EF	EF/IP67	Extrusion filling	10mm*5mm	2300K/2900K/3400K/3850K/5800K/ 8750K/15000K/G/B	86%

【Accessories Information】

| Name	Picture	Code	coding	description
Connector for wire and FPC		94-42-620800001	TXB208-NOGA	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	TBB208-NOGA	8mm width, 2PIN connector of FPC and FPC, suitable for white color strip,NO/NA
Slim connector		81-01-000000-000064	TBB208-NOTA	Suitable for 8mm board width, IP20, 2PIN board-to-board solderless terminal
Slim connector		81-01-000000-000066	TXB208-NOTA012	Suitable for 8mm board width, IP20, 2PIN wire- to-board solderless terminal
Fixed Clip		94-02-00-0002	FSW08SA	Silicone clip, screw: PA 3*8mm, suitable for 8mm FPC,EF/ET strip
Gas phase rubber plug		94-02-00-0038	DT08EG-A	Translucent gas phase adhesive plug, suitable for 8mm wide silicone extrusion eg lamp with
Gas phase gel plugging		94-02-00-0039	DW08EG-A	Translucent gas phase adhesive plug, suitable for 8mm wide silicone extrusion eg lamp with end plug

Name	Picture	Code	coding	description
Silicone Plug Kit		94-02-00-0044	DT08EA-A	Silicone plug kit, suitable for 8mm board width, ET/EF series silicone extrusion light strip
Silicone stopper kit		94-02-00-0045	DW08EA-A	Silicone tail plug kit, suitable for 8mm board width, ET/EF series silicone extrusion light strip
Mounting groove		94-02-00-0024	CVT08EA-12100100	Transparent PVC mounting groove,suitable for 8mm FPC,silicone extruded EF/ET strip
Stopper glue		94-16-03010001	AS-PG-0003	Silicone gel,suitable for ET/EF/EG waterproof LED strip
ET solderless plug		94-03-00-0027	PT208-ETWA	Monochromatic light strip, 8mm board width, ETS protection technology
ET press-fit terminals		94-03-00-0028	CBX208-ETWA020	Monochromatic light strip, 8mm board width, ETS protection technology
ET press-fit terminal kit		94-03-00-0029	STBX208-ETWA020	Monochromatic light strip, 8mm board width, ETS protection technology

【Packing】

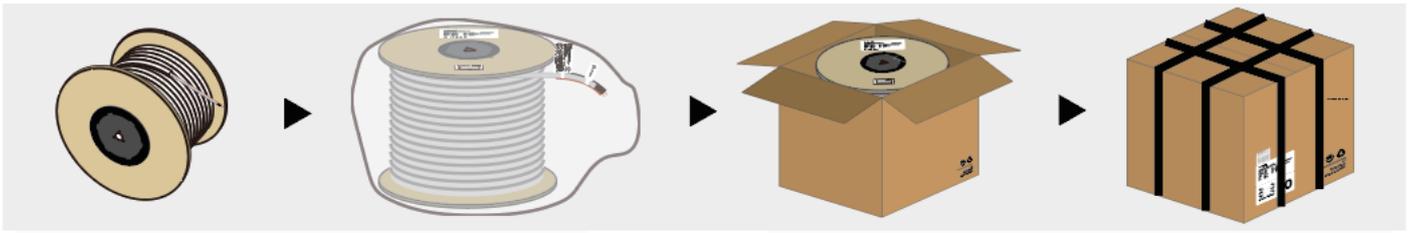Colors brand package

General customized package
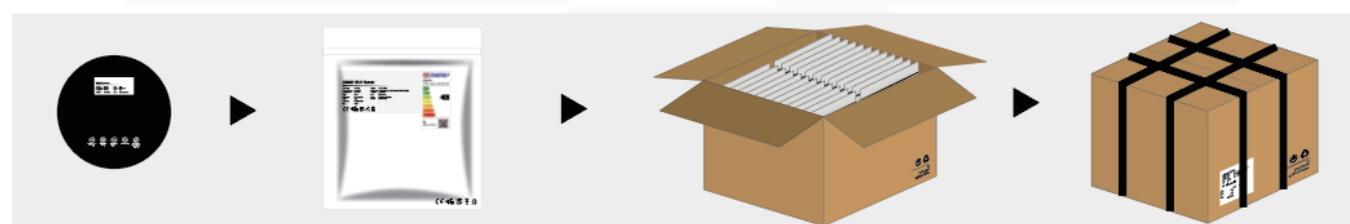
IP Process	Product size(mm)	Product quantity (m/reel)	Product quantity (m/case)	Product net weight(kg)	Net weight per box(kg)	Gross weight(kg)	Package size (cm)
NO	5000*8*1.5	5	300	0.108	6.48	7.452	41*41*26
NA	5000*8*1.6	5	300	0.11	6.6	7.59	41*41*26
ET	5000*10*4.8	5	200	0.433	17.32	19.918	41*41*26
EG/EGR	5000*9.3*3.8	5	200	0.19	7.6	8.74	41*41*26
EF	5000*10*5	5	200	0.479	19.16	22.034	41*41*26

Remark: data with 10% tolerance

· Engineering packaging of EG/EGR(IP65)/ET(IP67)/EF(IP67)

(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*1.5	50	650	1.08	14.04	16.146	41*41*26
NA	50000*8*1.6	50	650	1.1	14.3	16.445	41*41*26
ET	50000*10*4.8	50	100	4.41	8.82	10.143	25.5*25.5*26
EG/EGR	50000*9.3*3.8	50	100	1.9	3.8	4.37	25.5*25.5*26
EF	50000*10*5	50	100	4.88	9.76	11.224	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).

· 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.