

COOLIGHT
Lighting your life
Since 2006

NEW ARRIVAL

2020 SUMMER VERSION

COOLIGHT
Lighting your life
Since 2006

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Shenzhen Coolight Opt-Ele Co., Ltd
www.coolightled.com

2220 24V
7LED/segment LED strip



2220 24V
6LED/segment LED strip



2220 12V
4LED/segment LED strip



2220 12V
3LED/segment LED strip



2220 Waterproof LED Strip



Xribbon X1 diffuse LED strip



COOLiGHT
Lighting your life
Since 2006

Over 14 Years of Experience for LED Light



CTO Message
David Zhu

Why choose 2220 LED Strip? Let CTO David tell you!!!

Dear Valued Partner:

Thanks for your attention.

Since Coolight was established in 2006, we kept going on high quality flexible LED strip products for professional lighting applications, based on continuous innovations and unstopped research and development.

About 2220 flexible LED strip, 2220 LED components is a new modified SMD LED components standing on the shoulders of 2216 and 2110 LED components, it took the heritage of the advantages of 2216 and 2110 LED like:

- . Slim design,
- . Can be made to high density LED strips,
- . High CRI > 90

And the new 2220 LED have its own advantages like:

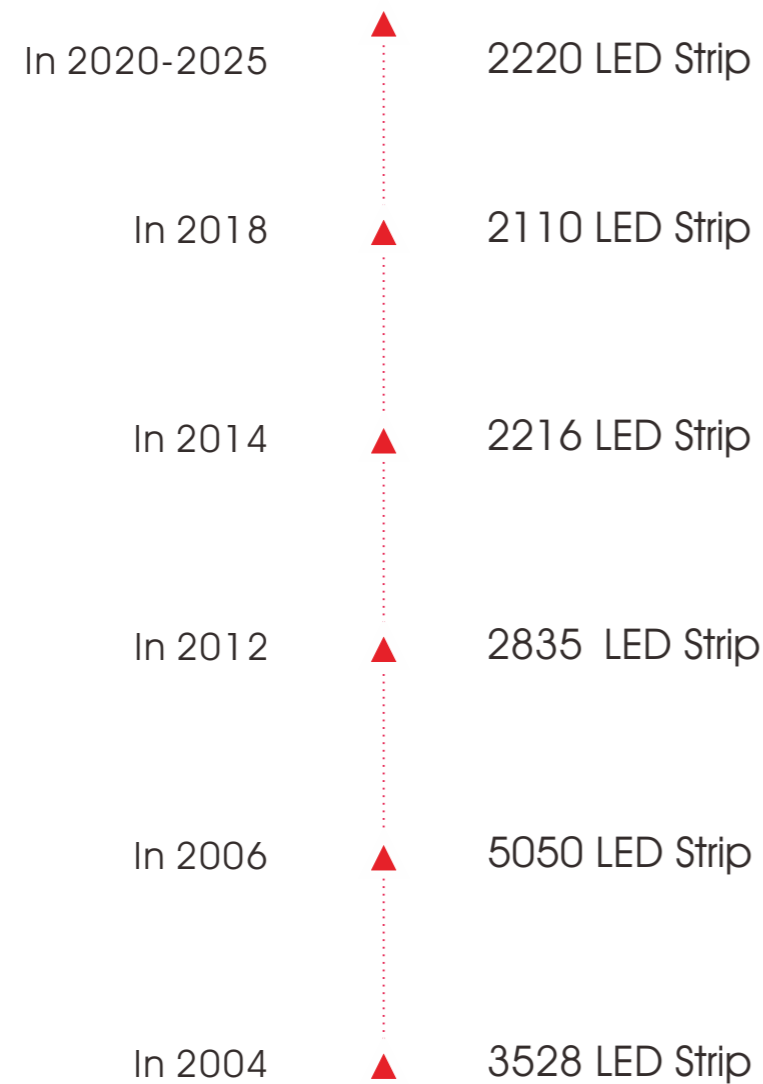
- . Strong body, not to be fragile,
- . Can be made to one bin LED strips every shipment,
- . High light efficiency based on excellent design LED frame
- . Can take the place of 3528, 2216, 3014 and 2835

We apply one bin 2220 LED components to make sure our 2220 LED flex strips are one bin every shipment as your confirmed samples to save your total cost including mix color mistake cost, purchasing communication cost, warehouse stock management cost, marketing and sales person product training cost etc.

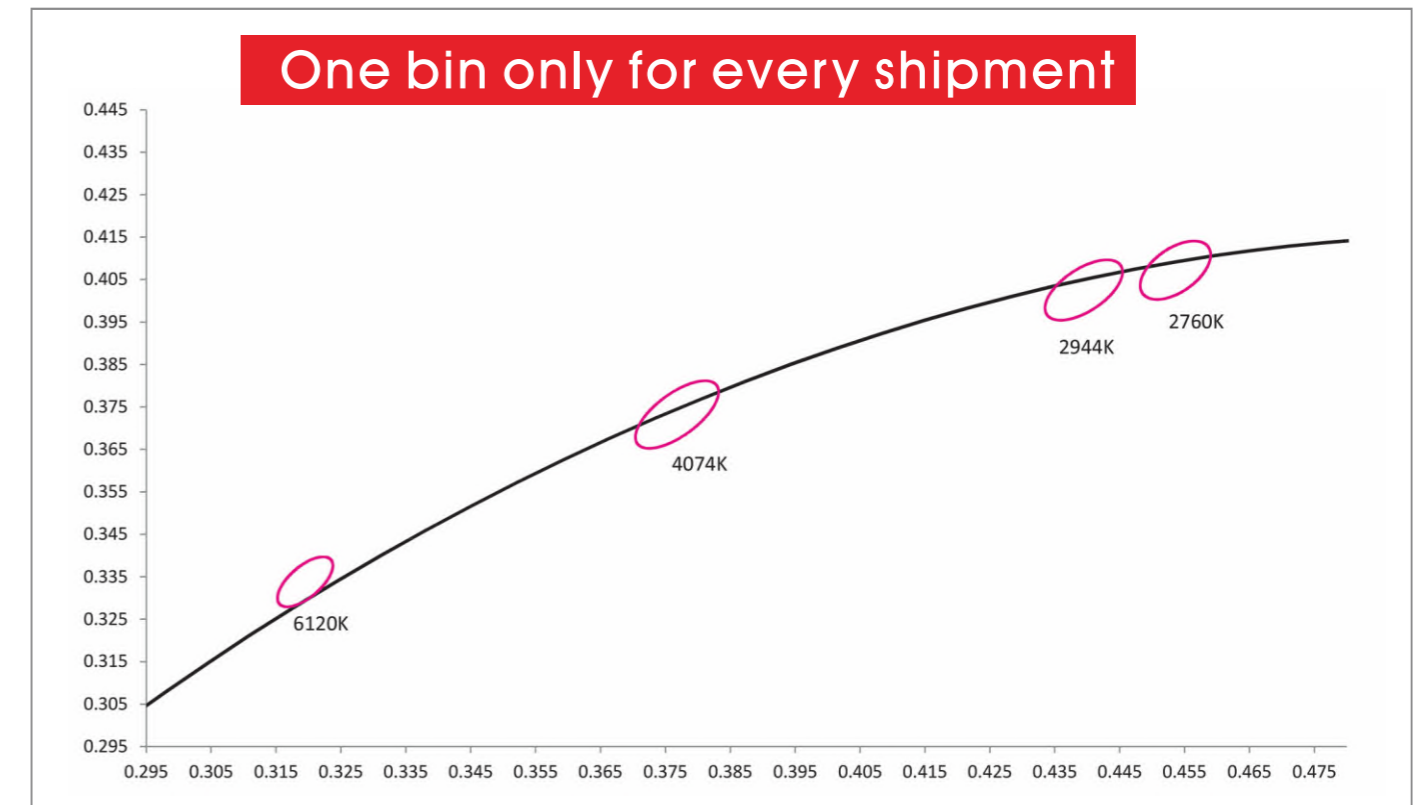


2220 LED Strips
New innovation for LED Strips industry.





What's the advantage for 2220 LED Strip



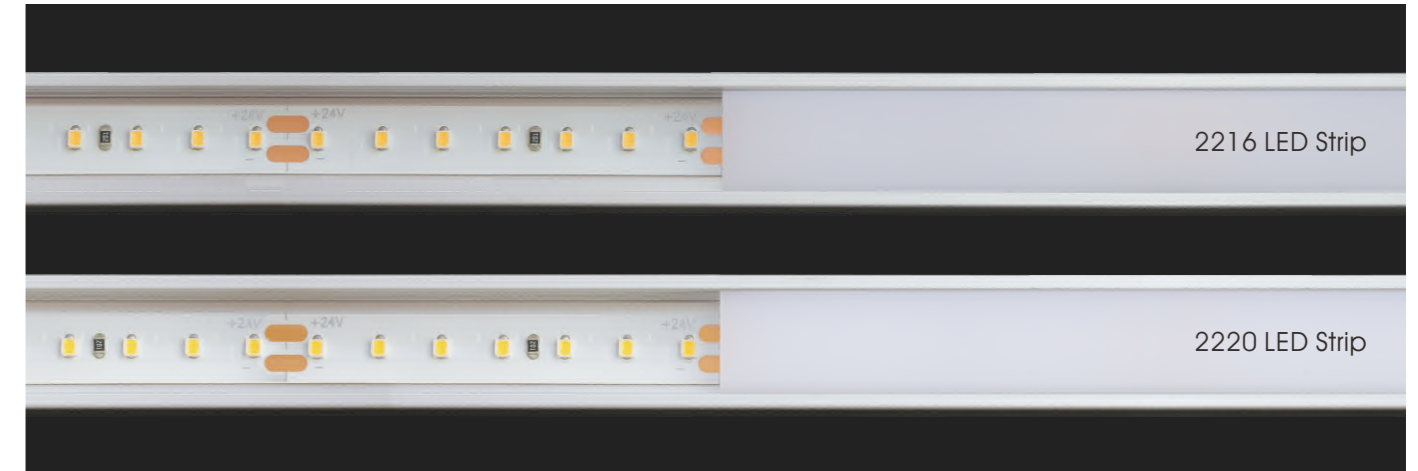
1. For 2220 LED Strip which can help you optimize your products list, mix color mistake cost, purchasing communication cost, warehouse stock management cost, marketing and sales person product training cost etc.
2. For 2220 LED Strip with strong body, not to be fragile, which can avoid the one segment led not lighting when people twist the PCB improperly.
3. For 2220 LED Strip with high light efficiency based on excellent modified optical structure of LED frame which can take place of 3528, 2216, 3014 and 2835 LED strip.
4. There are thousands of manufacturers in China produce 2835 LED strips, and the mass competition is headache to everyone. 2220 LED Strip help you to be different in the market, which help you increase your market share quickly.

2220 LED Strip VS 3528 LED Strip



	2220 LED Strip	3528 LED Strip	Advantage
Specification type	4000K-9.6W/M-24V (CLT-DNNF24140T20-8A29)	4000K-9.6W/M-24V (CLT-DNNF24140T02-8A29)	/
BINS	1 Bin	2 Bins	<p>2220 is one bin only</p> <p>The lumen for 2220 is around 30% higher than 3528</p> <p>The light effect for 2220 is around 30% higher than 3528</p>
Lm/m	1056	816	
Lm/W	110	85	
CCT(K)	4000	4000	
CRI	90	90	
W/m	9.6	9.6	
Voltage (V)	24	24	

2220 LED Strip VS 2216 LED Strip



	2220 LED Strip	2216 LED Strip	Advantage
Specification type	4000K-9.6W/M-24V (CLT-DNNF24140T20-8A29)	4000K-9.6W/M-24V (CLT-DNNF24140T16-8A29)	/
BINS	1 Bin	2 Bins	<p>2220 is one bin only</p> <p>The lumen for 2220 is around 10% higher than 2216</p> <p>The light effect for 2220 is around 10% higher than 2216</p>
Lm/m	1056	931	
Lm/W	110	97	
CCT(K)	4000	4000	
CRI	90	90	
W/m	9.6	9.6	
Voltage (V)	24	24	

2220 LED Strip VS 3014 LED Strip



	2220 LED Strip	3014 LED Strip	Advantage
	4000K-9.6W/M-24V (CLT-DNNF24140T20-8A29)	4000K-9.6W/M-24V (CLT-DNNF24140T07-8A29)	/
BINS	1 Bin	2 Bins	<p>2220 is one bin only</p> <p>The lumen for 2220 is around 10% higher than 3014</p> <p>The light effect for 2220 is around 10% higher than 3014</p>
Lm/m	1056	941	
Lm/W	110	98	
CCT(K)	4000	4000	
CRI	90	90	
W/m	9.6	9.6	
Voltage (V)	24	24	

2220 LED Strip VS 2835 LED Strip



	2220 LED Strip	2835 LED Strip	Advantage
	4000K-9.6W/M-24V (CLT-DNNF24140T20-8A29)	4000K-9.6W/M-24V (CLT-DNNF24140T09-0A29)	/
BINS	1 Bin	2 Bins	<p>2220 is one bin only</p> <p>The lumen for 2220 is around 5% higher than 2835</p> <p>The light effect for 2220 is around 5% higher than 2835</p>
Lm/m	1056	1008	
Lm/W	110	105	
CCT(K)	4000	4000	
CRI	90	90	
W/m	9.6	9.6	
Voltage (V)	24	24	

2220 24V 7LED/segment LED strip

24V 70LED/m 4.8W



P09-10

24V 140LED/m 9.6W



P11-12

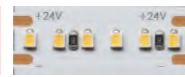
24V 280LED/m 19.2W



P13-14

2220 24V 6LED/segment LED strip

24V 240LED/m 19.2W



P15-16

2220 12V 4LED/segment LED strip

12V 80LED/m 3.6W



P17-18

12V 160LED/m 6W



P19-20

2220 12V 3LED/segment LED strip

12V 60LED/m 4.8W



P21-22

12V 120LED/m 9.6W



P23-24

2220 Waterproof LED Strip

IP54 A Silicon Glue waterproof



P25-26

IP54 B Silicon Glue Extrusion waterproof



P27-28

IP66 A Silicon Glue Extrusion Hollow Curve shape waterproof



P29-30

IP66 B Silicon Glue Extrusion Hollow Square shape waterproof



P31-32

IP67 Silicon Glue Solid Extrusion Solid waterproof



P33-34

Xribbon X1 diffuse LED strip

24V 280LED/m 9.6W



P45-46

24V 280LED/m 14.4W



P47-48

Red, Blue, Green, Yellow



P49-50



one bin only

3 Step MacAdam

LM-80

Product parameters

Electrical Data

- Number Led/M : 70pcs
- Power W/m : 4.8W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 100mm

Standards / Normative Requirements

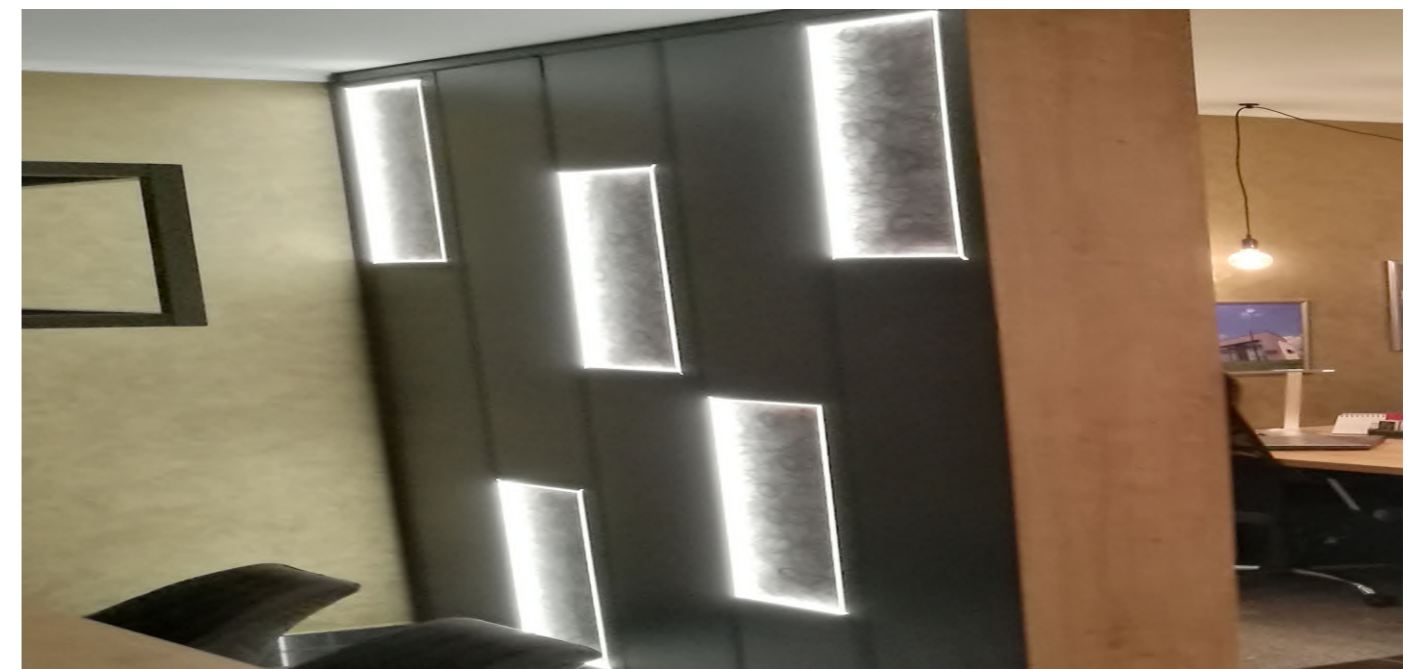
- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNNF24070T20-8A29	2700	>90	4.8	100	480	24V	20
CLT-INNF24070T20-8A29	3000	>90	4.8	105	504	24V	20
CLT-DNNF24070T20-8A29	4000	>90	4.8	110	528	24V	20
CLT-WNNF24070T20-8A29	6000	>90	4.8	110	528	24V	20

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

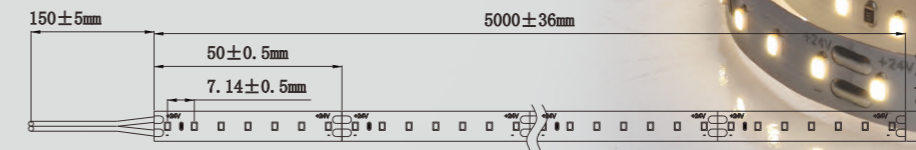
Application





Dimension

IP20 140LED 24V



one bin only

3 Step MacAdam

LM-80

Product parameters

Electrical Data

- Number Led/M : 140pcs
- Power W/m : 9.6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 50mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNNF24140T20-8A29	2700	>90	9.6	100	960	24V	20
CLT-INNF24140T20-8A29	3000	>90	9.6	105	1008	24V	20
CLT-DNNF24140T20-8A29	4000	>90	9.6	110	1056	24V	20
CLT-WNNF24140T20-8A29	6000	>90	9.6	110	1056	24V	20

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

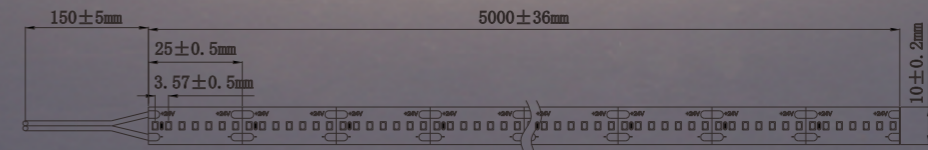
Application





Dimension

IP20 280LED 24V



one bin only

3 Step MacAdam

LM-80

Product parameters

Electrical Data

- Number Led/M : 280pcs
- Power W/m : 19.2W
- PCB Width : 10mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 25mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

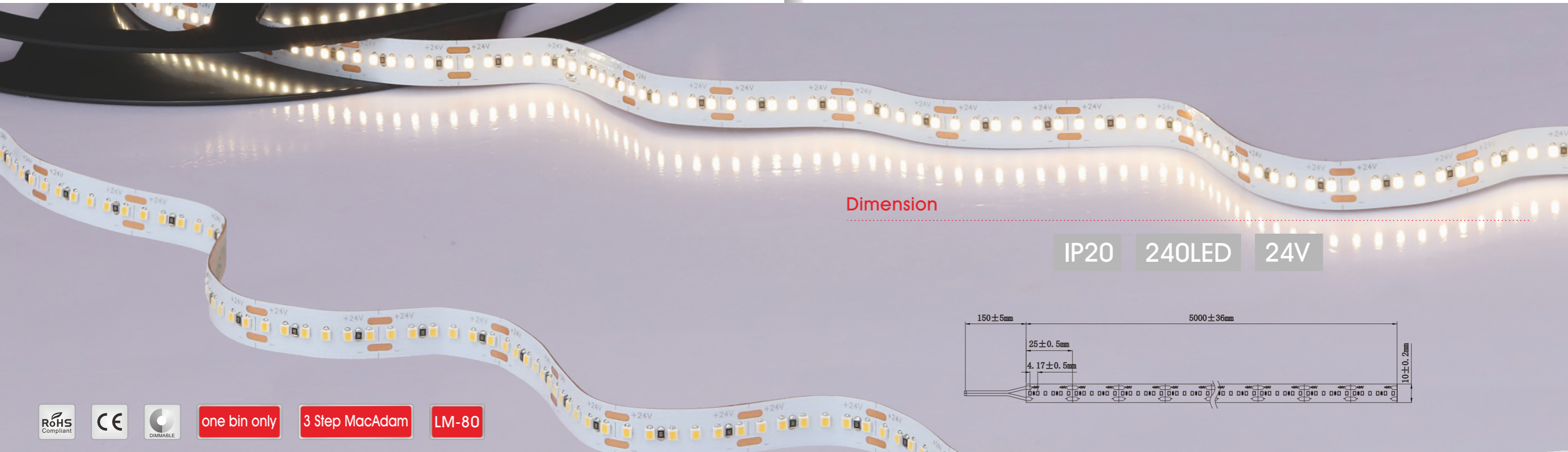
Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNNF24280T20-0A29	2700	>90	19.2	100	1920	24V	20
CLT-INNF24280T20-0A29	3000	>90	19.2	105	2016	24V	20
CLT-DNNF24280T20-0A29	4000	>90	19.2	110	2112	24V	20
CLT-WNNF24280T20-0A29	6000	>90	19.2	110	2112	24V	20

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

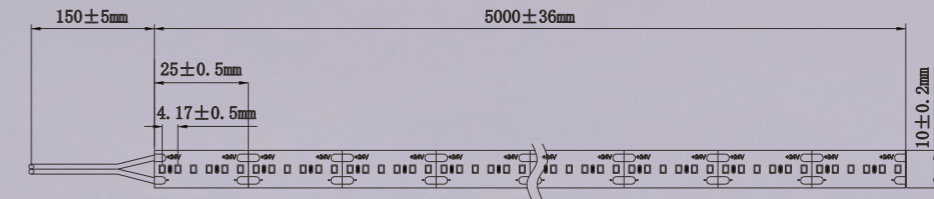
Application





Dimension

IP20 240LED 24V



Product parameters

Electrical Data

- Number Led/M : 240pcs
- Power W/m : 19.2W
- PCB Width : 10mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 25mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNNF24240T20-0A29	2700	>90	19.2	85	1632	24V	20
CLT-INNF24240T20-0A29	3000	>90	19.2	90	1728	24V	20
CLT-DNNF24240T20-0A29	4000	>90	19.2	95	1824	24V	20
CLT-WNNF24240T20-0A29	6000	>90	19.2	95	1824	24V	20

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

Application

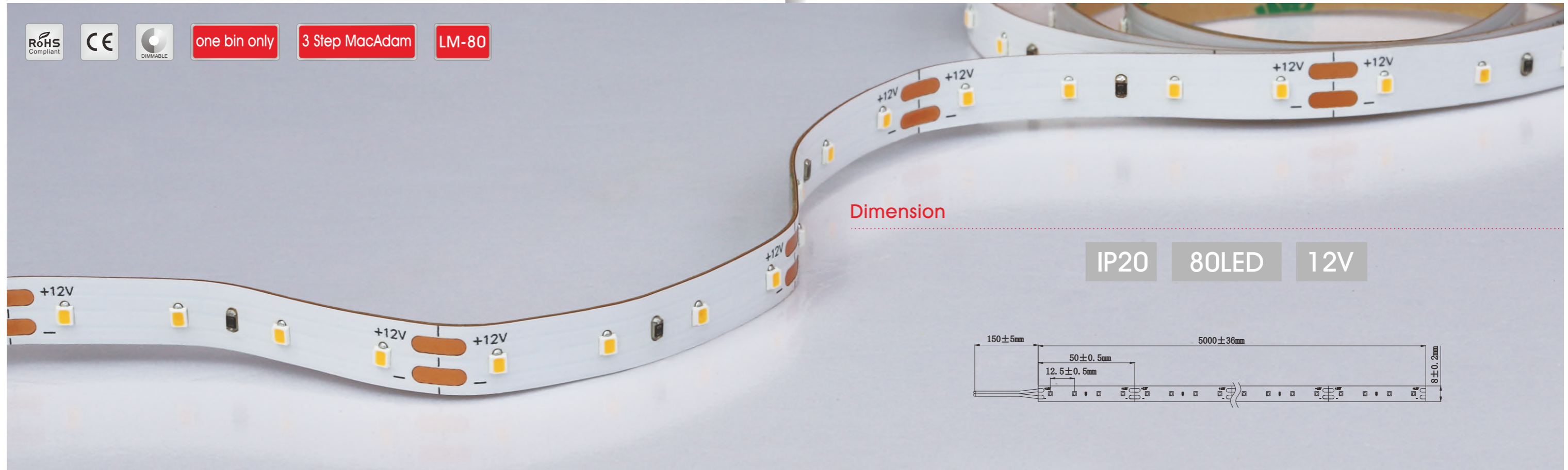




one bin only

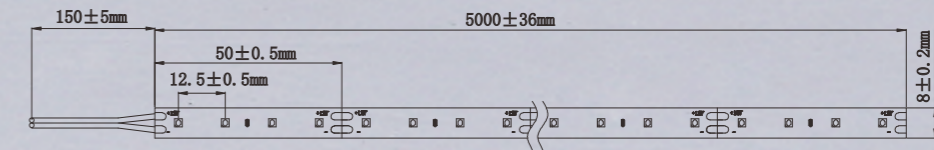
3 Step MacAdam

LM-80



Dimension

IP20 80LED 12V



Product parameters

Electrical Data

- Number Led/M : 80pcs
- Power W/m : 3.6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 50mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

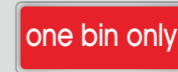
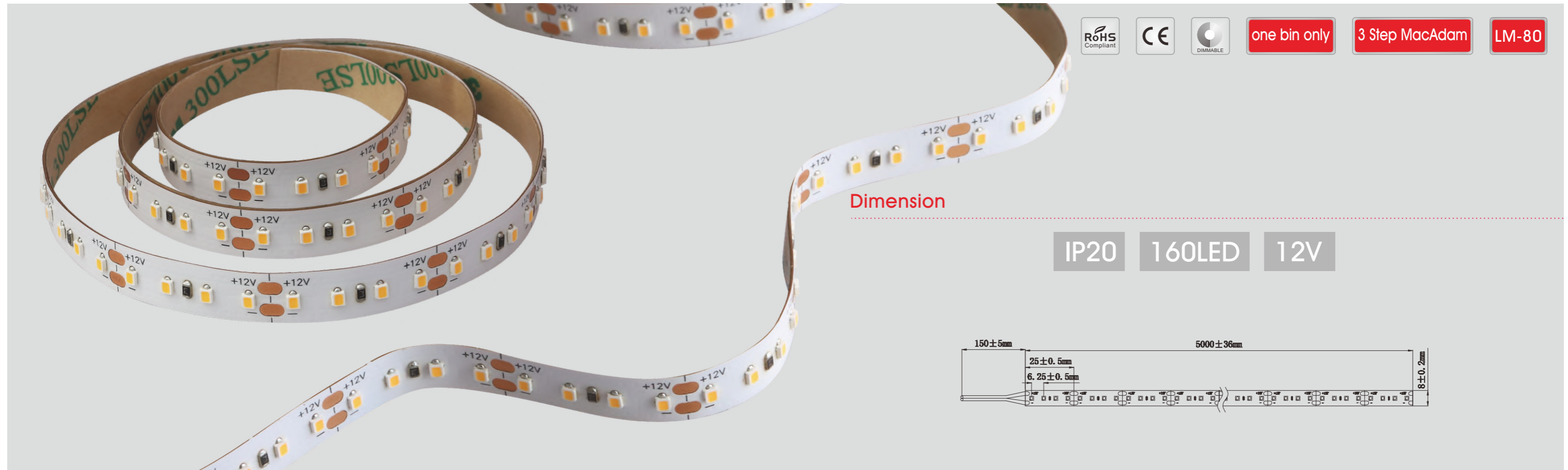
Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNNF12080T20-8A29	2700	>90	3.6	125	450	12V	20
CLT-INNF12080T20-8A29	3000	>90	3.6	125	450	12V	20
CLT-DNNF12080T20-8A29	4000	>90	3.6	130	468	12V	20
CLT-WNNF12080T20-8A29	6000	>90	3.6	130	468	12V	20

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

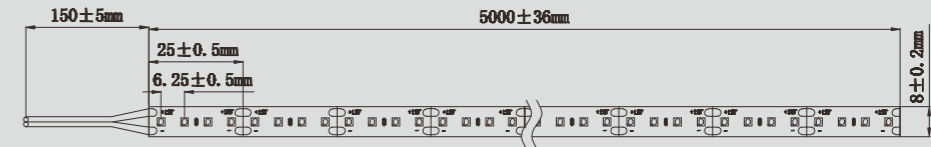
Application





Dimension

IP20 160LED 12V



Product parameters

Electrical Data

- Number Led/M : 160pcs
- Power W/m : 6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 25mm

Standards / Normative Requirements

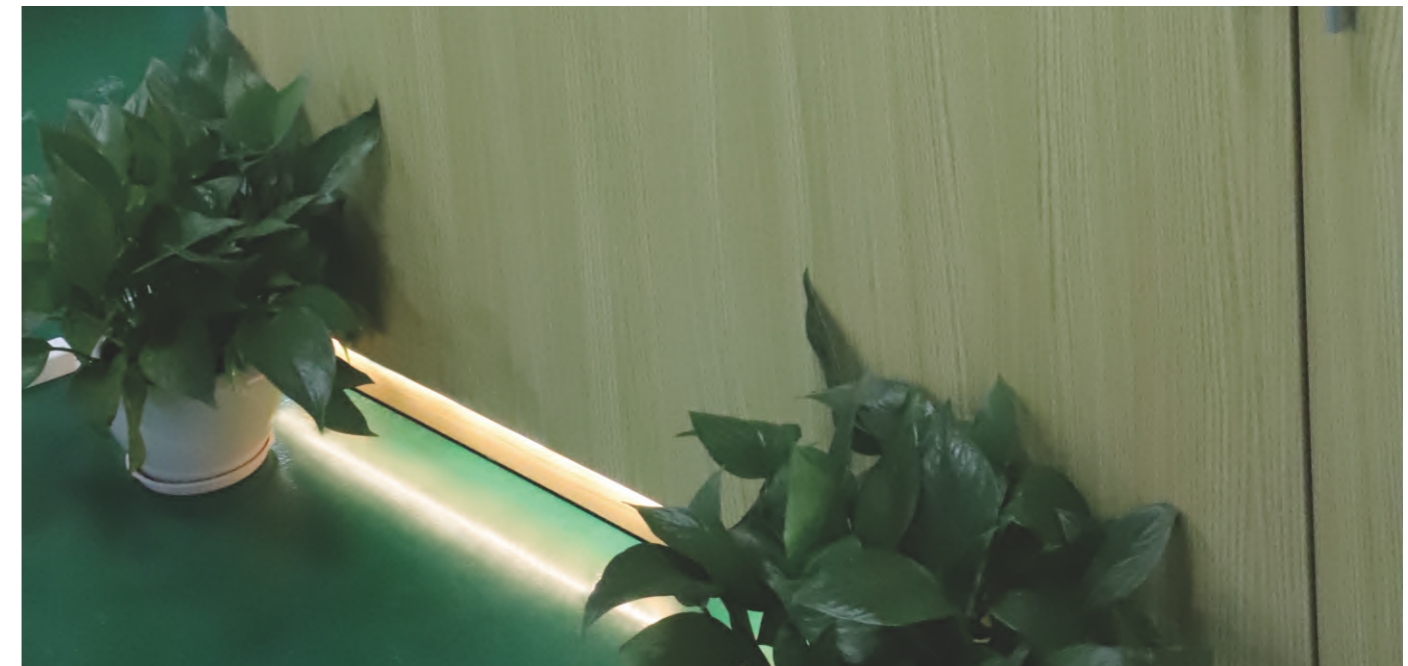
- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

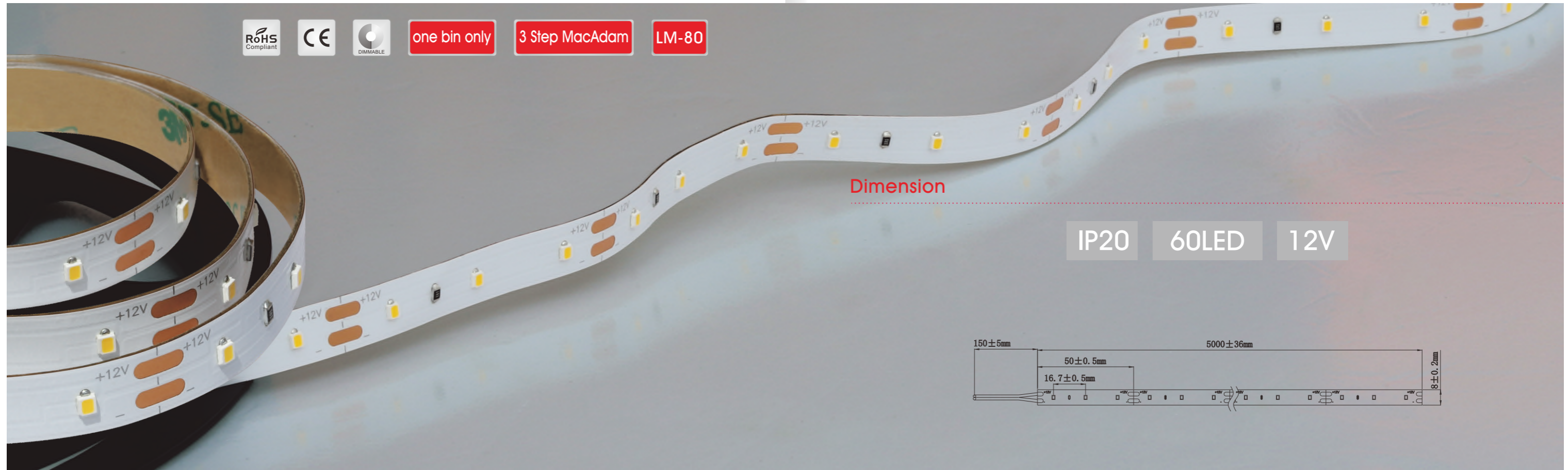
Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNNF12160T20-8A29	2700	>90	6	125	750	12V	20
CLT-INNF12160T20-8A29	3000	>90	6	125	750	12V	20
CLT-DNNF12160T20-8A29	4000	>90	6	130	780	12V	20
CLT-WNNF12160T20-8A29	6000	>90	6	130	780	12V	20

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be ±10%
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

Application





Product parameters

Electrical Data

- Number Led/M : 60pcs
- Power W/m : 4.8W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 50mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

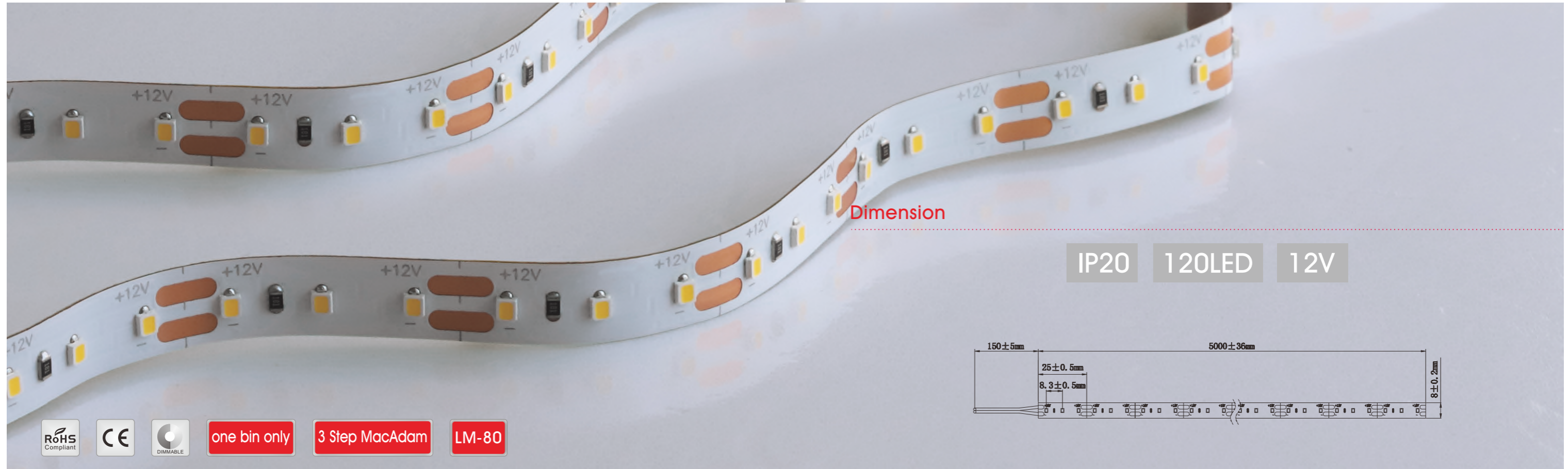
Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNNF12060T20-8A29	2700	>90	4.8	85	408	12V	20
CLT-INNF12060T20-8A29	3000	>90	4.8	90	432	12V	20
CLT-DNNF12060T20-8A29	4000	>90	4.8	95	456	12V	20
CLT-WNNF12060T20-8A29	6000	>90	4.8	95	456	12V	20

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

Application





Product parameters

Electrical Data

- Number Led/M : 120pcs
- Power W/m : 9.6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 25mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

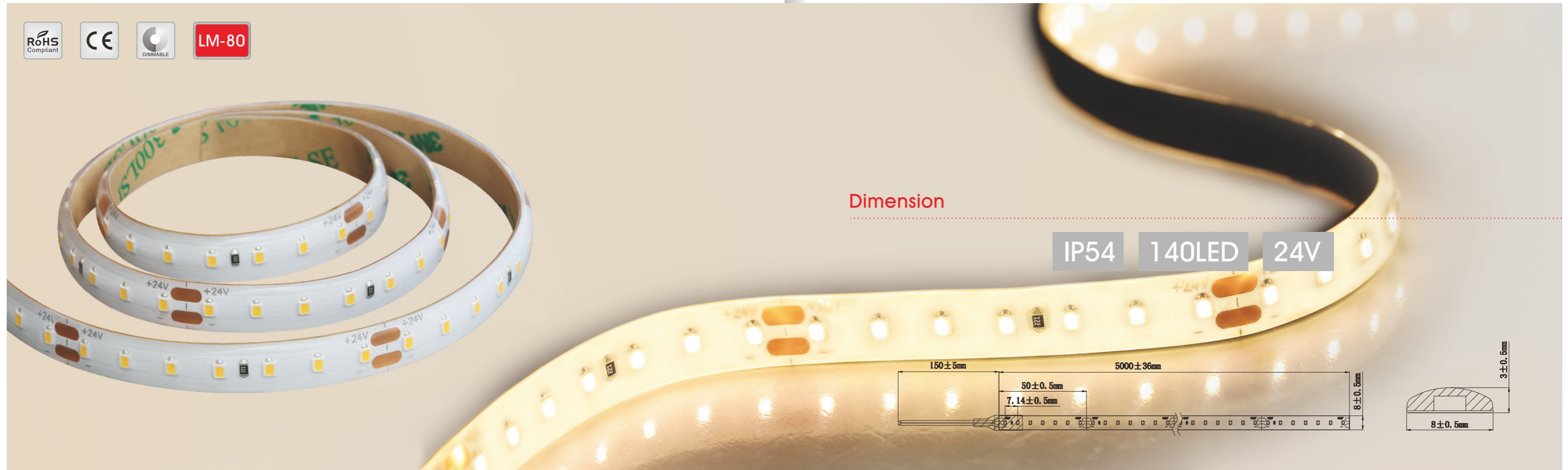
Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNNF12120T20-8A29	2700	>90	9.6	85	816	12V	20
CLT-INNF12120T20-8A29	3000	>90	9.6	90	864	12V	20
CLT-DNNF12120T20-8A29	4000	>90	9.6	95	912	12V	20
CLT-WNNF12120T20-8A29	6000	>90	9.6	95	912	12V	20

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be ±10%
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

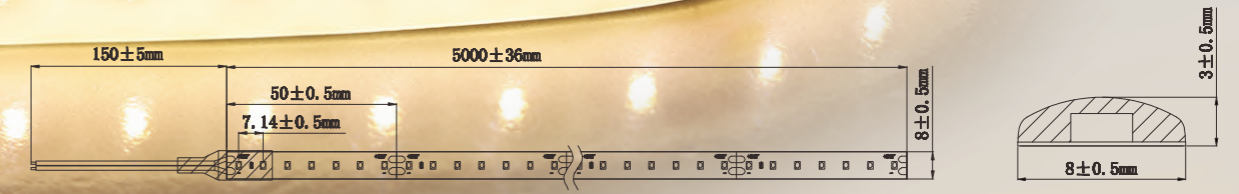
Application





Dimension

IP54 140LED 24V



Product parameters

Electrical Data

- Number Led/M : 140pcs
- Power W/m : 9.6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 50mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

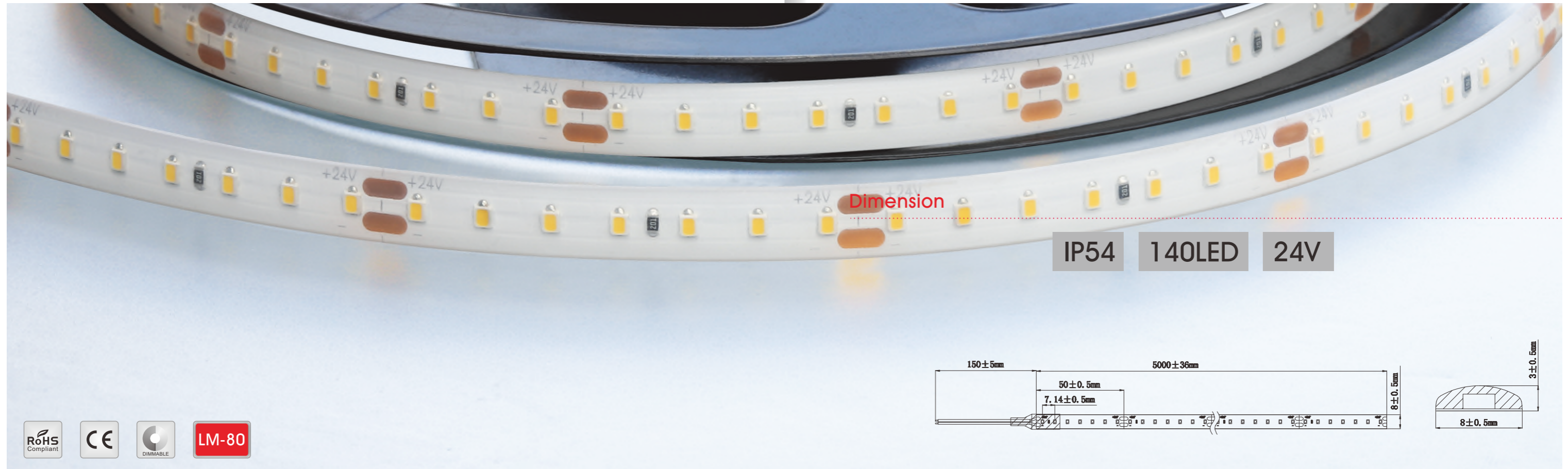
Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNWF241 40T20-8A29	2700	>90	9.6	100	960	24V	54
CLT-INWF241 40T20-8A29	3000	>90	9.6	105	1008	24V	54
CLT-DNWF241 40T20-8A29	4000	>90	9.6	110	1056	24V	54
CLT-WNWF241 40T20-8A29	6000	>90	9.6	110	1056	24V	54

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be ±10%
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

Application





Product parameters

Electrical Data

- Number Led/M : 140pcs
- Power W/m : 9.6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 50mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

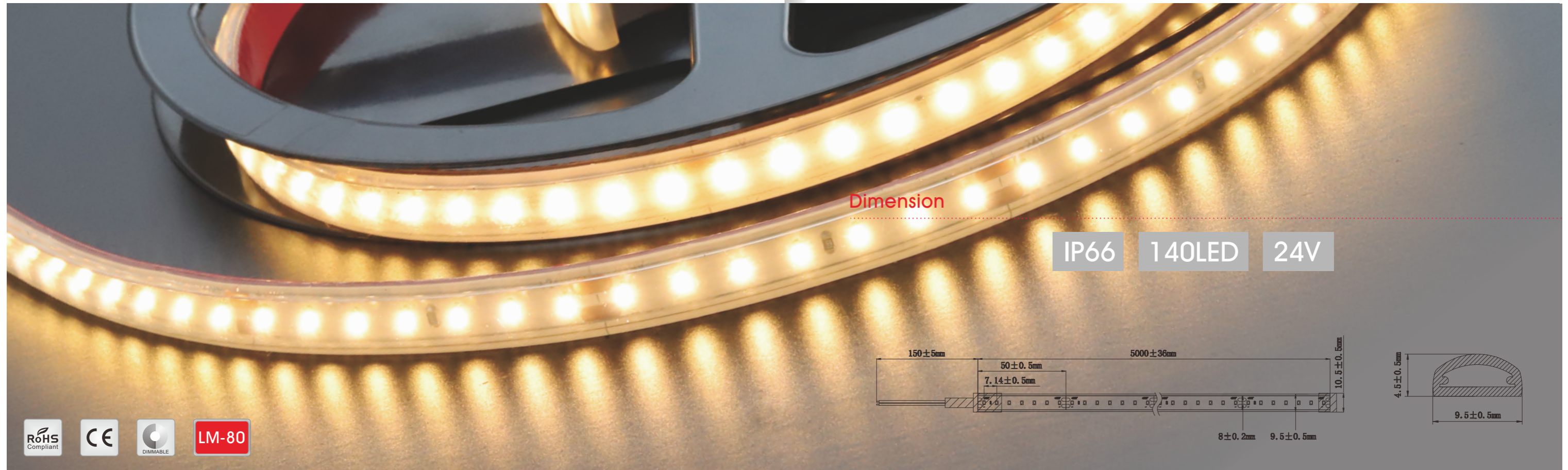
Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNDF24140T20-8A29	2700	>90	9.6	100	960	24V	54
CLT-INDF24140T20-8A29	3000	>90	9.6	105	1008	24V	54
CLT-DNDF24140T20-8A29	4000	>90	9.6	110	1056	24V	54
CLT-WNDF24140T20-8A29	6000	>90	9.6	110	1056	24V	54

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

Application





Product parameters

Electrical Data

- Number Led/M : 140pcs
- Power W/m : 9.6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 50mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

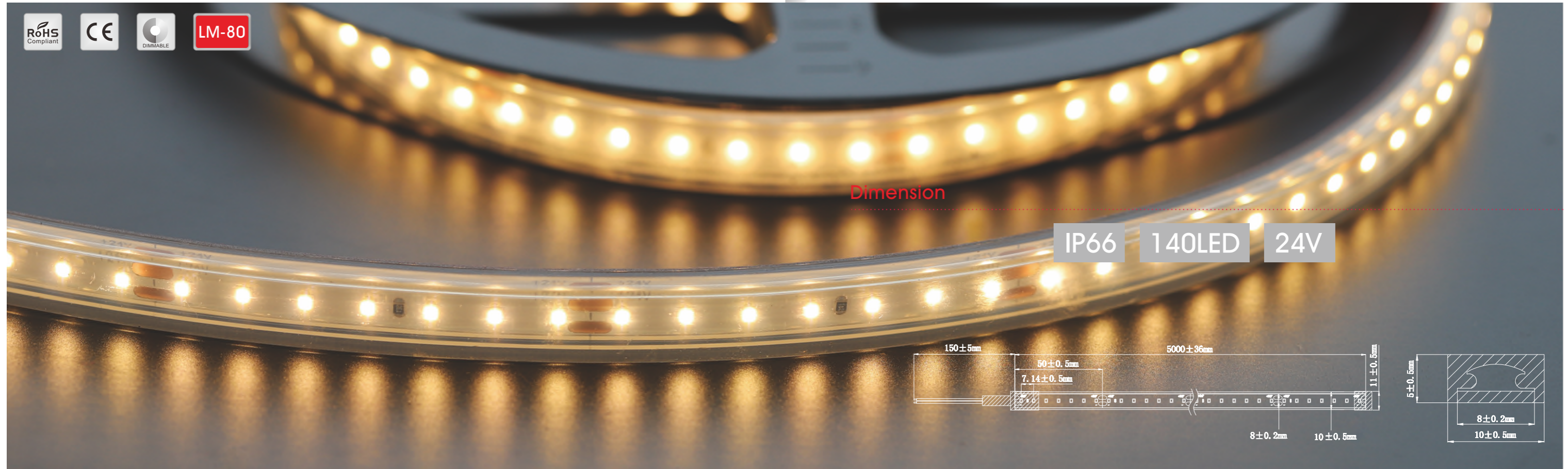
Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNHF24140T20-8A29	2700	>90	9.6	100	960	24V	66
CLT-INHF24140T20-8A29	3000	>90	9.6	105	1008	24V	66
CLT-DNHF24140T20-8A29	4000	>90	9.6	110	1056	24V	66
CLT-WNHF24140T20-8A29	6000	>90	9.6	110	1056	24V	66

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

Application





Product parameters

Electrical Data

- Number Led/M : 140pcs
- Power W/m : 9.6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 50mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNJF24140T20-8A29	2700	>90	9.6	100	960	24V	66
CLT-INJF24140T20-8A29	3000	>90	9.6	105	1008	24V	66
CLT-DNJF24140T20-8A29	4000	>90	9.6	110	1056	24V	66
CLT-WNJF24140T20-8A29	6000	>90	9.6	110	1056	24V	66

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

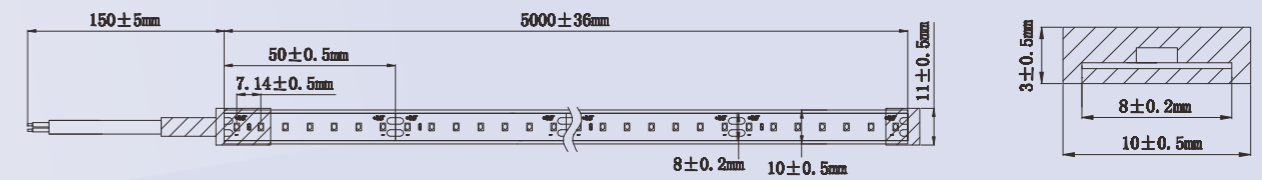
Application





Dimension

IP67 140LED 24V



Product parameters

Electrical Data

- Number Led/M : 140pcs
- Power W/m : 9.6W
- PCB Width : 8mm
- CRI : >90
- Max length(10% voltage drop) : 5m
- Cut Size : 50mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNSF24140T20-8A29	2700	>90	9.6	100	960	24V	67
CLT-INSF24140T20-8A29	3000	>90	9.6	105	1008	24V	67
CLT-DNSF24140T20-8A29	4000	>90	9.6	110	1056	24V	67
CLT-WNSF24140T20-8A29	6000	>90	9.6	110	1056	24V	67

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be ±10%
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

Application







CTO Message
David Zhu

Dear Valued Partner:

Thanks for your attention.

About Xribbon X1 diffuse LED flex strip, during communication with our customers, we know that the total cost of a LED strip light system included the LED strip + profile channel + PC cover diffuser purchasing cost, shipping cost, installation cost and maintenance cost etc.

The customers pay more attention to the total cost, not only the flexible LED strip purchasing cost.

So We created the Xribbon X1 diffuse LED flex strip to take more benefit to our customers by the main advantages including.

.Slim design, only 3.5mm thick, spotless dot free light performance, can take the place of traditional LED strip + profile channel + diffuser cover system (**Save LED strip light system material cost for you**).

.Have 3M VHB adhesive tape at the back, easy to mount on many different finishing surface (**Save shipment and installing cost for you**).

.Very good color consistency, the final products <3 step MacAdam ellipse @ CRI/Ra>90 even after the latest diffused silicone co-extrusion IP67 waterproof process (**High quality, nice spotless dot free light performance, save maintenance cost for you**).

We are an open-minded team, and innovation is our soul, if you have any requirement or advice, please feel free to let us know. Thanks.

Relative Patent



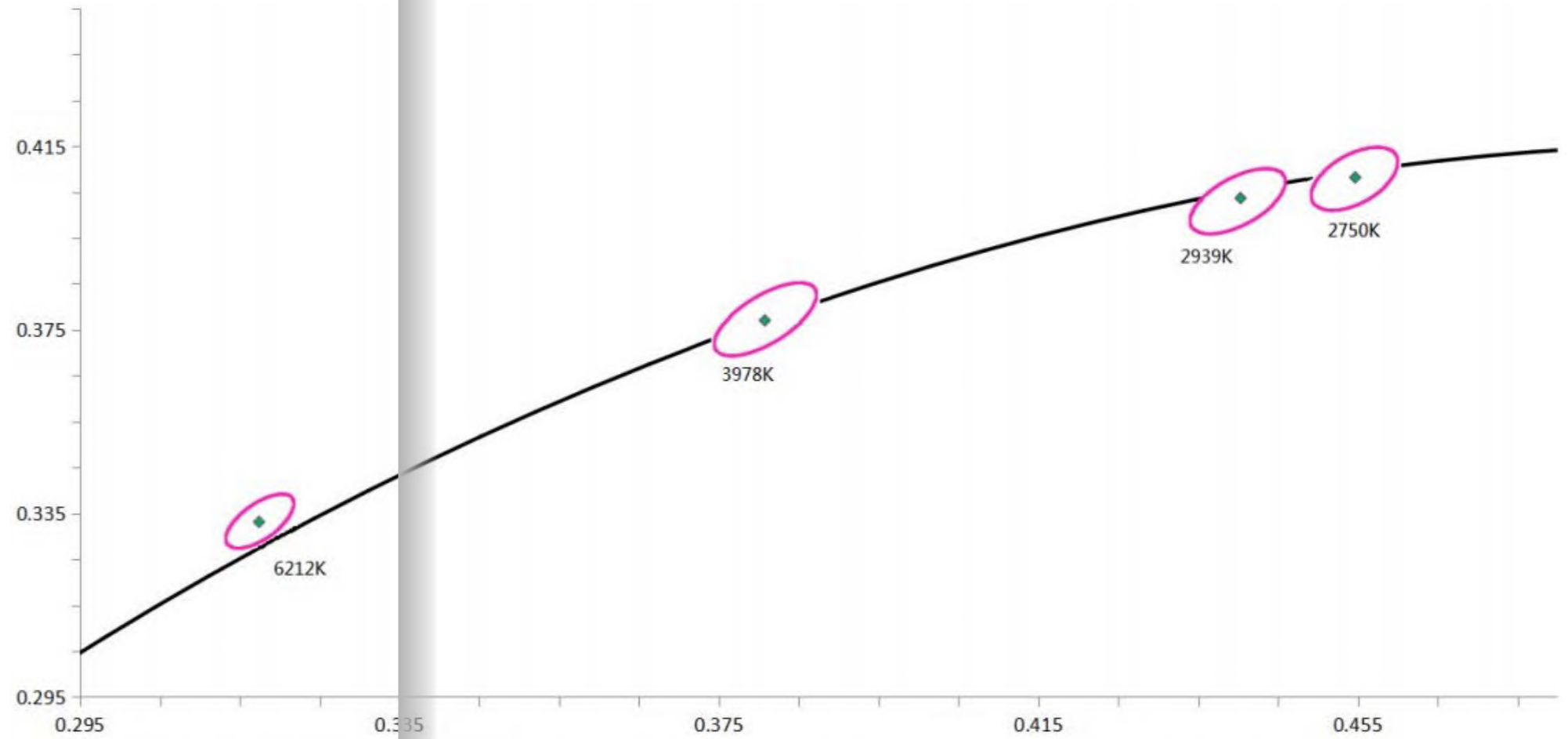
What's the advantage Xribbon X1 diffuse LED Strip

1 ≤ 3 SDCM

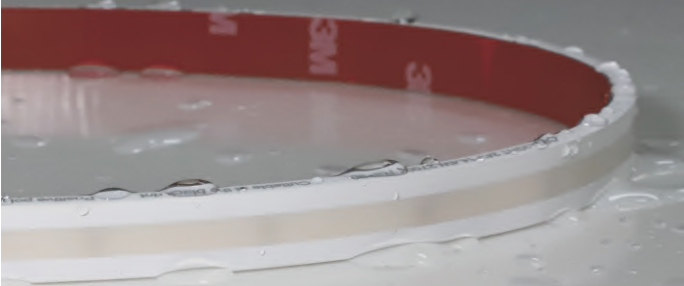
High color consistency 3-Step for every color and every shipment.

2 IP67 waterproof

IP67 waterproof with spotless dot free light performance.



Certificate



Outdoor use possible: UV exposure test and Salt spray test
(UV according ISO 4892-3:2016 - Method A,

Salt spray test according to ISO 9227:2012

IP67 waterproof test
(according to IES 60598-1:2014 clause 9.2.2 and clause 9.2.8.

Technical Report No. 68.140.18.0317.01 Dated 2018-05-25	
Client:	Name: Shenzhen Coolight Opt-Ele Co., Ltd Address: 4th Floor, Building C Chuangfu Science & Technology Park Beihuan Road, Shiyao Town Bao'an 518108 Shenzhen, Guangdong PEOPLE'S REPUBLIC OF CHINA Contact person: Mr. Long
Manufacturing place:	Manufacturer's name: Same as client Address: Same as client Factory's name: Same as client Address: Same as client
Test subject:	Product: Solid extruded waterproof LED strip Type: CLT(CLU/CLU)-115F3344T55-6789 Trade mark: --
Test specification:	Salt spray test according to ISO 9227:2012
Purpose of examination:	Test according to the test specification requested by client
Test result:	This report is only for test result, without verdict, see item 3 of this report for details.

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

TUV SUD Certification and Testing China Co., Ltd.
Shenzhen Branch
Building 12B11, Zihang Wanda Business Park North
Checkpoint Road 1, Nantou District 518052 Shenzhen
China

Project No: 68.140.18.0317.01
Date: 2018-05-25
Page: 1 of 1

Tel: +86 755 8520 8888
Fax: +86 755 8520 8888
www.tuv.com.cn

Technical Report No. 68.140.18.0316.01 Dated 2018-05-25	
Client:	Name: Shenzhen Coolight Opt-Ele Co., Ltd Address: 4th Floor, Building C Chuangfu Science & Technology Park Beihuan Road, Shiyao Town Bao'an 518108 Shenzhen, Guangdong PEOPLE'S REPUBLIC OF CHINA Contact person: Mr. Long
Manufacturing place:	Manufacturer's name: Same as client Address: Same as client Factory's name: Same as client Address: Same as client
Test subject:	Product: Solid extruded waterproof LED strip Type: CLT(CLU/CLU)-115F3344T55-6789 Trade mark: --
Test specification:	IP67 test according to IEC 60598-1:2014 clause 9.2.2 and clause 9.2.8
Purpose of examination:	<input checked="" type="checkbox"/> Test according to the test specification
Test result:	The test results show that the presented product is in compliance with the specified requirements

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

TUV SUD Certification and Testing China Co., Ltd.
Shenzhen Branch
Building 12B11, Zihang Wanda Business Park North
Checkpoint Road 1, Nantou District 518052 Shenzhen
China

Project No: 68.140.18.0316.01
Date: 2018-05-25
Page: 1 of 1

Tel: +86 755 8520 8888
Fax: +86 755 8520 8888
www.tuv.com.cn

Technical Report No. 68.402.18.0590.02 Dated 2018-05-31	
Client:	Shenzhen Coolight Opt-Ele Co., Ltd
Address:	4th Floor, Building C, Chuangfu Science & Technology Park, Beihuan Road, Shiyao Town, Bao'an, 518108 Shenzhen, Guangdong, PEOPLE'S REPUBLIC OF CHINA
Attn:	Mr. Long
Sample Description:	Solid extruded waterproof LED strip
Model No.:	CLT(CLU / CLU)-115F3344T55-6789
Sample Received Date:	2018-05-18
Test Period:	From 2018-05-18 to 2018-05-28
Test Requested:	UV exposure test following ISO 4892-3:2016
Test Result:	Refer to following page(s)
Remark:	- The result relates only to the items tested - The test item(s) and sample(s) were specified by the client - This report supersedes previous report 68.402.18.0590.01 issued on 2018-05-30

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.

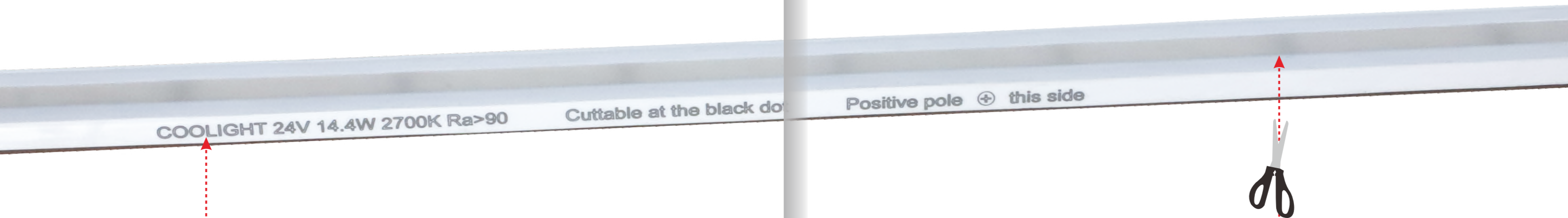
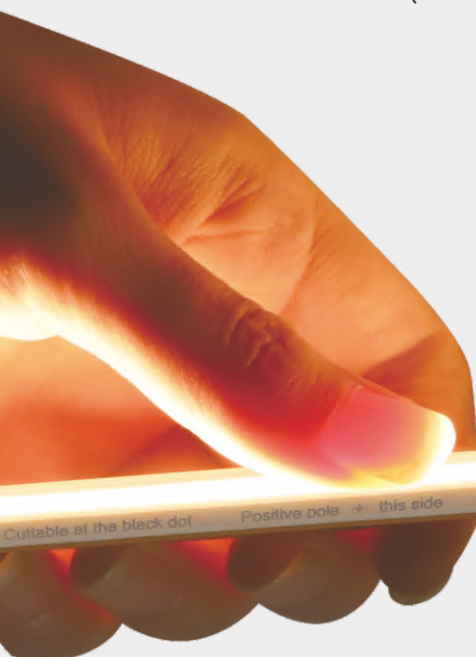
TUV SUD Certification and Testing China Co., Ltd. Shenzhen Branch
Building 12B11, Zihang Wanda Business Park North
Checkpoint Road 1, Nantou District 518052 Shenzhen
China

Project No: 68.402.18.0590.02
Date: 2018-05-31
Page: 1 of 4

Tel: +86 755 8520 8888
Fax: +86 755 8520 8888
www.tuv.com.cn

3 Super slim, only 3.5mm thick


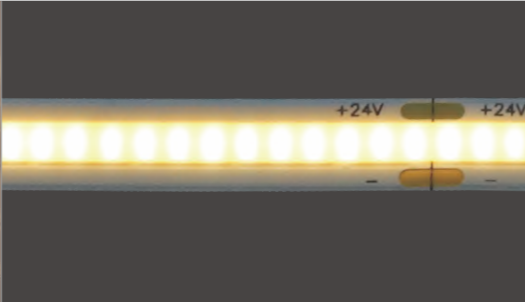
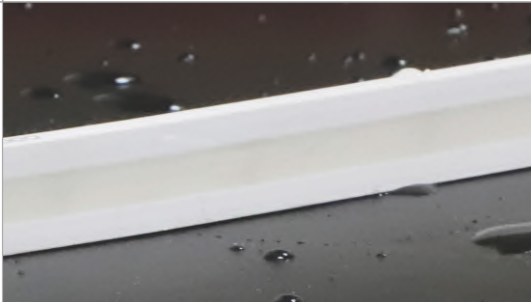

can take the place of traditional LED strip + profile channel + diffuser cover system
(Save LED strip light system material cost for you)



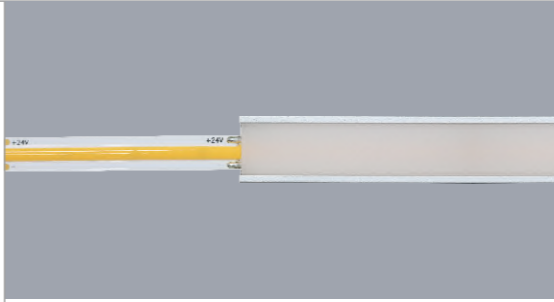

Print company name and caution on the side

Flexible and cuttable at the black dot

Why choose COOLIGHT Xribbon LED Strip Compare with COB on the market

Comparison		
	Xribbon X1 Flexible Led Strip From COOLIGHT	COB on the market
IP	IP67	IP20
Color consistency	1 BIN	3-4BINS
Lm/m	1300	1000
Warranty	5years	1-2years
Appearance		
	Basic white color better for application when turn off	Yellow color when turn off
Application	Indoor & outdoor	Indoor only
Construction	One body extrusion	Joint:easy to fake solder
Cable	UL CL2 2464 insulated white cable	22AWG 2468 red-black cable
Adhesive backside	3M VHB tape	200LSE tape

Why choose COOLIGHT Xribbon LED Strip compare with COB/FOB LED strip+Profile+cover on the market

Comparison		
	COB LED strip+ Profile + Cover on the market	Xribbon X1 diffuse LED flex strip
Light efficiency	light transmittance of profile+cover is about 70%, light efficiency of COB is 90-100lm/w, so the final light system efficiency is only 70lm/w	High light efficiency 90lm/W and high color consistency <3 step MacAdam@CRI>90
IP protection	IP20	Higher IP rate, IP67
System material cost	COB 400LED/meter is about 3.5-4.0USD Profile channel + PC cover is about 1.5-2USD	Much competitive price
Weight	Aluminum profile+PC cover is 200KG, COB LED strip is 60KG, total 260KG @2000meter	5meter per reel and anti-static bags protect, total 160KG @2000meter
Freight cost to Europe	about 1400USD @2000meter	about 900USD@2000meter
Installation	Peel off adhesive tape-Stick the led strip to profile -- put on end cap -- install channel--install clip--install profile	Much easier, Peel off 3M VHB tape--install led strip
Quality Warranty	1-2years warranty	5years warranty
Conclusion	Coolight created the Xribbon X1 diffuse LED flex strip to take more benefit to our customers by saving the total cost of LED light system including the LED strip + profile channel + PC cover diffuser purchasing cost, shipping cost, installation cost and maintenance cost etc.	



one bin only

3 Step MacAdam

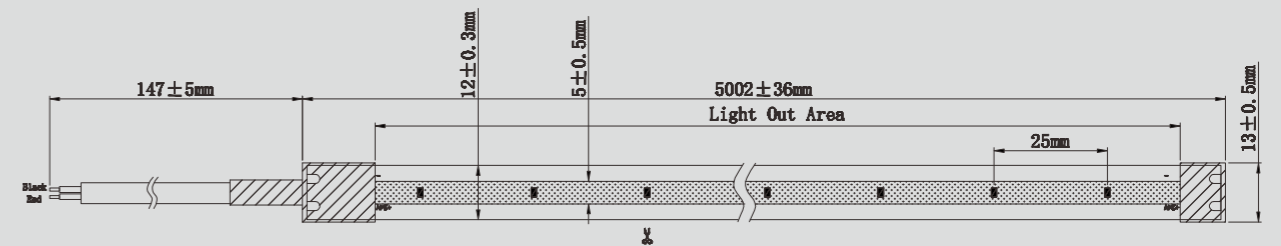
LM-80

Dimension

IP67

280LED

24V



Product parameters

Electrical Data

- Number Led/M : 280pcs
- Power W/m : 9.6W
- PCB Width : 10mm
- CRI : >90
- Max length(10% voltage drop) : 6m
- Cut Size : 25mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNMF24280T00-0A19	2700	>90	9.6	80	768	24V	67
CLT-INMF24280T00-0A19	3000	>90	9.6	80	768	24V	67
CLT-DNMF24280T00-0A19	4000	>90	9.6	90	864	24V	67
CLT-WNMF24280T00-0A19	6000	>90	9.6	90	864	24V	67

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be ±10%
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

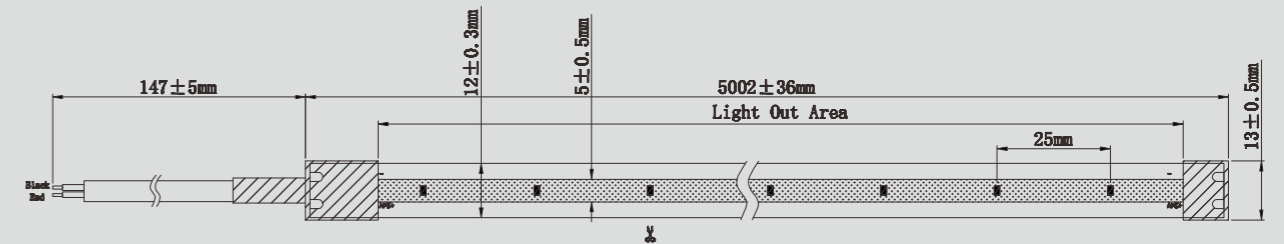
Application





Dimension

IP67 280LED 24V



Product parameters

Electrical Data

- Number Led/M : 280pcs
- Power W/m : 14.4W
- PCB Width : 10mm
- CRI : >90
- Max length(10% voltage drop) : 6m
- Cut Size : 25mm

Standards / Normative Requirements

- Photobiological safety : IEC 62471
- Degrees of Protection : EN 60529
- Safety Requirements : EN 62031 IEC 60598-1
- EMC / radio disturbance characteristics : EN 55015
- ROHS : Yes
- CE : Yes

Part No.CLT	CCT(K)	CRI	Pow(W/m)	LM/W	LM/M	V/DC	IP
CLT-KNMF24280T00-0A19	2700	>90	14.4	80	1150	24V	67
CLT-INMF24280T00-0A19	3000	>90	14.4	80	1150	24V	67
CLT-DNMF24280T00-0A19	4000	>90	14.4	90	1300	24V	67
CLT-WNMF24280T00-0A19	6000	>90	14.4	90	1300	24V	67

Cautions :

1. The given data are typical value. Due to tolerances of the production process and electrical components, electrical power can be $\pm 10\%$
2. Up to 14.4W/M(4.39W/feet)no need for additional heat sinking on Alu profile, if more than 14.4W/M(4.39W/feet) must be used the heat sinking.

Application



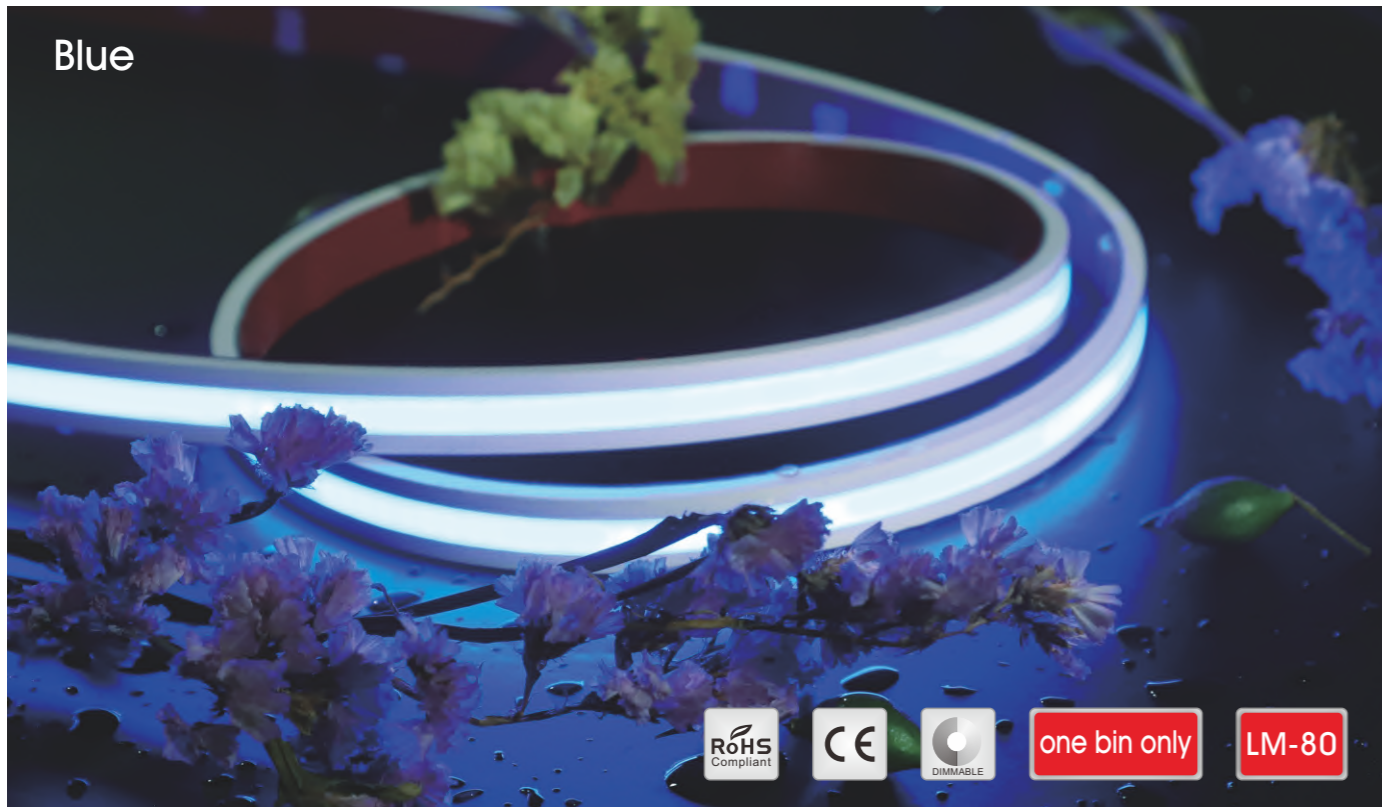
Red



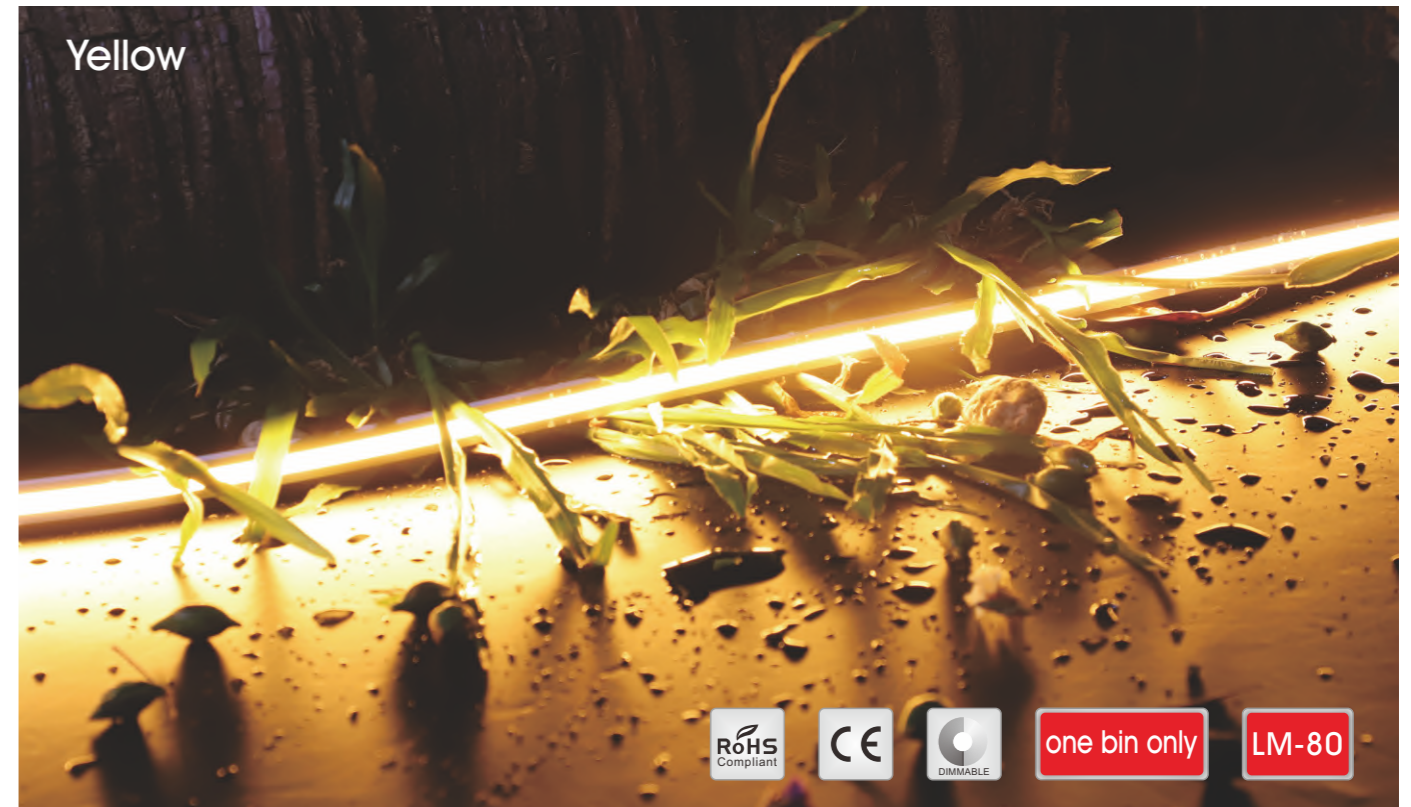
Green

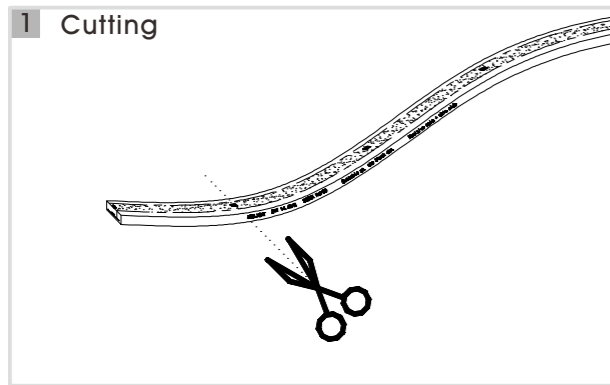


Blue

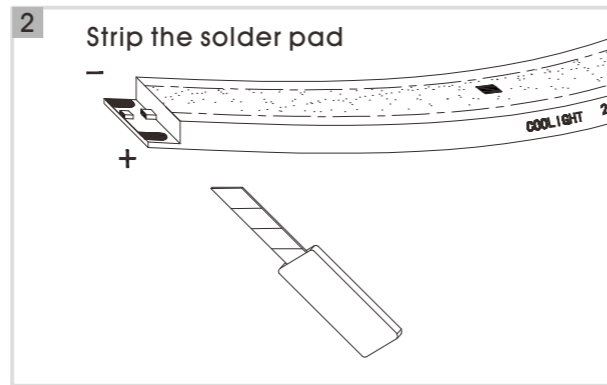


Yellow

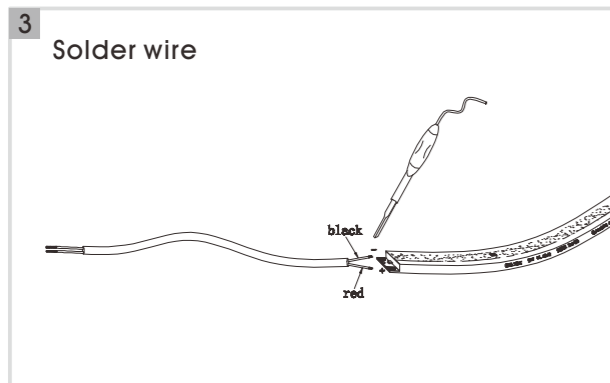




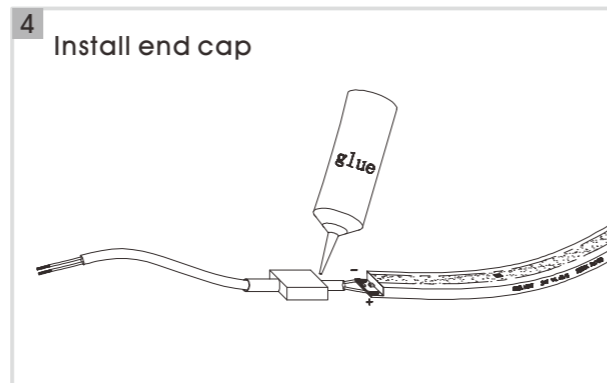
1 Cutting
With the light-emitting side on the front and the "+" pole face yourself. Cutting the led strip from the first black dot.



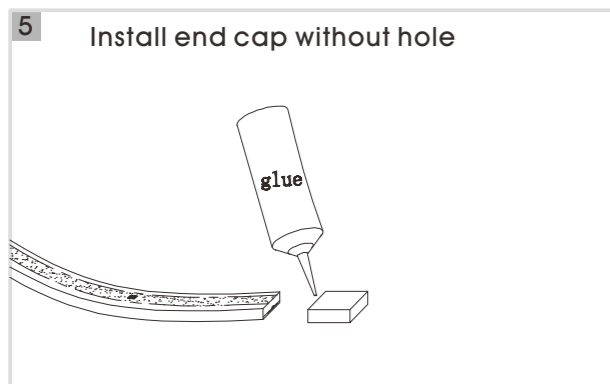
2 Strip the solder pad
Strip two 4*4mm square split on the two sides, make sure the solder pad exposed. Which is easy to solder wire



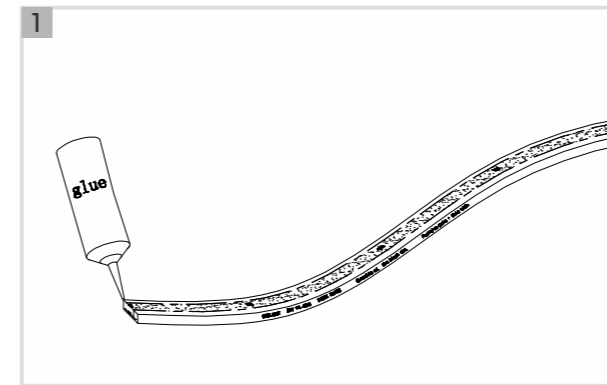
3 Solder wire
Solder the red wire on the "+" pole, black wire on the "-" pole



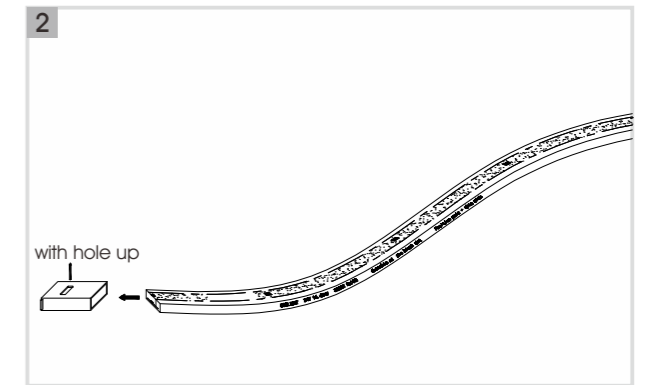
4 Install end cap
Insert the end cap into the wire. Inject the glue into the end cap, and slipped the end cap, clean the excess glue.



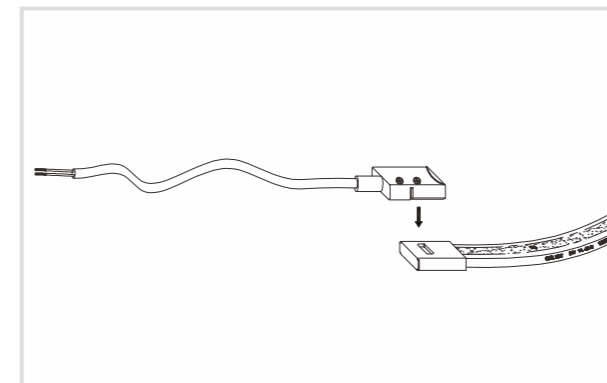
5 Install end cap without hole
Inject the glue into the end cap, and slipped the end cap, clean the excess glue.



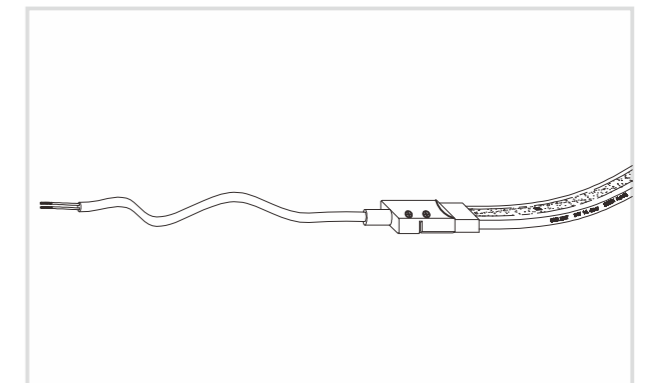
1 With glue on the cross section



2 Insert the connector to the bottom



3 Press the connector



4 Finished

Controller&Amplifier

RGB+W



RGB+W controller

Operation voltage:12-24VDC

Size(mm):110*52*20

Receiver:

Working voltage:12-36VDC

Max load per channel:6A

Size(mm):85*45*23

Technical distance:30m

RGB



RGB controller CI-TCWCON

Input voltage: DC 12V/24V

Output: 3 channels

Output current: 6A each channel

Battery for the remote: 3pcs 1.5V AAA

Tunable



Color Tunable controller CL-CTJCCON

Input voltage: DC 12V-24V

Output: 3 channels

Output current: 6A each channel

Battery for the remote: 3pcs 1.5V AAA

RGB+W+WW



Hand-holder

5 IN 1 Smart LED Controller

Working Temperature: -20-60°C

Input Voltage: DC12V-24V

Output: 6A/Channel

Total output Max: 15A

2.4G wireless control/WIFI control



Wall touch

5 IN 1 Smart LED Controller

Working Temperature: -20-60°C

Input Voltage: DC12V-24V

Output: 6A/Channel

Total output Max: 15A

2.4G wireless control/WIFI control

IP20 Power Supplies

30W



30W LED Driver

Element 30

DC 24V

1.25A

60W



60W LED Driver

Element 60

DC 24V

2.5A

120W



120W LED Driver

Element 120

DC 24V

5A

IP67 Power Supplies

35W



35W LED Driver

LPV-35-24/LPV-35-12

DC12/24V

1.5A/3A

60W



60W LED Driver

LPV-60-24/LPV-60-12

DC12/24V

2.5A/5A

100W



100W LED Driver

LPV-60-24/LPV-60-12

DC12/24V

2.5A/5A



Package Information

IP Type	Inner box(Meter)	Inner box/carton(PCS)	Outer Carton(Meter)	Outer Carton size(mm)	N.T.±5%(KG)	GW.±5%(KG)
IP20	125	4	500	520*415*540	13.5	15.5
IP54/66/67	100	2	200	550*415*280	12.5	14

CLU(T)(X) - ①① - ②② ③③ ④④④ T⑤⑤ - ⑥ ⑦ ⑧ ⑨
I II III IV V VI VII VIII IX X

- I: CLU represents COOLIGHT UL approved strip series ; CLT represent COOLIGHT regular strip series
- II: ①① represent LED CCT , If ①① is CN , means 7000K . WN: 6000-7000K EN: 5300-6000K FN: 4700-5300K LN: 4200-4700K DN: 3800-4200K MN: 3300-3800K IN: 2800-3300K KN: 2600-2800K NN: 2400-2600K SN: 2200-2400K ON: 1900-2200K PN: 1700-1900K BN: blue GN: Green YU: Yellow OU: Red W2: RGB AB: Amber QN: Pink (WI: white mixed WR: white +RGB WW: double white +RGB , Exact CCT is to be showed in strip description)
- III: ②② represent waterproof rate and pcb type, ②②= AX
A=N: Non-waterproof, IP20
A=W: Silicon glue , IP54
A=T: Silicon tubing waterproof, IP65
A=K: Silicone tube with glue filling
A=P: Nano-Waterproof
A=J: Extrusion tube Square shape, IP66
A=H: Extrusion tube Curved shape / Neon led strip front view IP66
A=S: Extrusion with Glue inside, IP67
A=D: Silicon Glue Extrusion Waterproof, IP54
A=M: Dual color Extrusion with glue inside, IP67
A=Q: Dual color extrusion tube with silicon / Neon led strip side view, IP 66
X=F: Flexible LED strip
X=A: Aluninum profile rigid strip
X=P: Rigid strip without dissipater
- IV: ③③ represent working voltage of strip, If ③③ is 12, it means 12V DC, 24 means 24V DC
- V: ④④④ represent LEDs quantity per meter, If ④④④ is 060, it means 60leds/meter , 120 means 120leds/meter
- VI: T⑤⑤ represent type of LEDs, If ⑤⑤ is 02, it means 3528 LEDs, 02=3528 LEDs, 03= 5050 LEDs, 07= 3014LEDs Top view, 08=3014 LEDs Side view, 09= 2835LEDs, 10=2110 LEDs, 16= 2216 LEDs, 00= COB
- VII: ⑥ represent width of pcb, If ⑥ is 0, it means 10mm, 2= 12mm, 3=13mm, 4= 14mm, 5= 5mm, 6= 6mm, 7= 7mm, 8= 8mm, 9= 9mm, A= 3mm, B= 4mm, C= 7.5mm, D=15mm, E= 19mm, F= 20mm, G= 30mm, H= 15.6mm, I= 11.5mm, J= 39mm, K= 16mm, L=4.8mm, M= 8.5mm, N= 3.5mm
- VIII: ⑦ represent rows of LEDs in pcb, If ⑦ is A, it means single row, B means double rows, C means triple rows, D means quadruple rows.
- IX: ⑧ represent rated current of single LED, If ⑧ is 1, it means 10mA,
2= 11-20mA
3= 21-30mA
4= 31-40mA
5= 41-50mA
6= 51-60mA
7= 61-70mA
8= 71-80mA
9= 80-90mA
- X: ⑨ represent Ra (CRI) of strip light, If ⑨ is 7, it means CRI 70,
8= CRI80
9= CRI90
5= CRI95
6= CRI97
0= No CRI Request /RGB

