

WHY CHOOSE RisingSun

01

EFFICIENT&PROFESSIONAL SERVICES

- Customized spec support, label service.
- Customer first, 12 hours response policy.
- Technical, Sales, Marketing team service.

02

RELIABLE LED INDUSTRY EXPERIENCE

- 8 years specializing in R&D, production and sales of high-quality LED strips.
- 80+ companies from 20+ countries worked well with us.
- Long-term supplier declaration to maintain friendly relations of cooperation.

03

WIDE PRODUCT OPTIONS

- SMD3528, SMD5050, SMD2835, SMD2216, SMD3014, SMD5730, SMD2110 lines and 2 packaging lines. More than 30 well-trained workers.
- High CRI, High efficiency, Super thin, Multi-color, Constant current.
- IP20, IP54, IP65, IP67, IP68 options for indoor and outdoor application.

04

STRONG PRODUCTION CAPACITY&FAST DELIVERY TIME

- 4 lines full-automatic SMT workshop, 5 Soldering groups, 10 Aging lines and 2 packaging lines. More than 30 well-trained workers.
- 50,000Mt Monthly production capacity.
- 7 days can be shipped out of 95% standard items.

05

OEM&ODM

- Different OEM&ODM service to help wholesaler, retailer or project orders.
- Wide color options, based on the ERP or ANSI[CIE] standard. Smaller CCT tolerance.
- One-Bin supplied, 2-3-5 SDCM. High color consistency.
- Customized wattage per meter and lumen per meter, Customized wire layout.

06

STRICT QUALITY CONTROL

- Operations accredited to ISO 9001:2008.
- 5 Steps for quality control. IQC, IPQC, OQC, OE and QM.
- All LEDs are LM-80 available, packing in Cu lead Frame +99.99% Gold wire.

07

WORLDWIDE CERTIFICATES&NATIONAL PATENTS

- All of our product are CE and RoHS certified by SGS or TUV Lab.
- All of our product are cULus listed.
- IEC-EN62598, EN60529, EN62471, EN62493 approved.
- More than 20 patents for inventions and utility models.

08

CORE VALUE CUSTOMER SUPPORT

- We are glad to update newest researches and product promotion news as a priority.
- Best Price support. Maintain the absolute advantage of core value customer purchase price in RisingSun's system.
- Credit support, from the standpoint of long-term cooperation, the credit period can be discussed and satisfied.
- Raw materials reserve stock in advance to shorten the lead time.

09

COMFORTING AFTER-SALES

- Up to 3-5 years warranty, any problem of our product, we solve it within 7 days.
- Your account manager always here ready to service you if you have any questions or problems.
- Customer satisfaction investigation regularly, to improve the customer experience. Relaxed and pleasant cooperation is our pursuit.

COMPANY PROFILE

Shenzhen RisingSun Photoelectric Holdings Limited founded in 2012, is a high-tech enterprise specializing in the production of high-quality LED linear light source and lighting series, focusing on the R&D, production and sales of LED Flexible Strips and related products.

RisingSun has been approved by ISO9001 international quality management system, UL certification (North America) and TUV issued CE, RoHS certification (Europe). Over the years, we have maintained stable cooperative relations with more than 20 countries and regions in the world.

RisingSun has advanced professional LED lighting production equipment and all kinds of electrical testing equipment. In addition, there is a laboratory with multiple different types of test equipment. "Quality first" is the lifeline of the company and an important part of our corporate culture.



Persist in **“innovation”** and enhance **“customer experience”** is our constant pursuit!

LABORATORY FUNCTIONS & STANDARDS

Material Testing:

1. Strain Relief Test, To test the PCB max. tensile force.
2. Twisting Test, To test the strip anti-twist ability, the strength of the LED bracket, fold resistance and solder stability test of PCB.
3. Salt Spray Test, To test the product for corrosion resistance. Based on IEC 68-2-11.
4. UV Accelerated Weathering Test. Simulated solar radiation. To test the material whether anti-UV. Test Standard: ASTM-G154

Life Testing:

1. Working Temperature Test, Dot temperature control, to check the heat dissipation performance.
2. Lumen Flux Maintenance Test, Long time lighting and aging, to record the test data for lumen depreciation test.
3. Switching Test. Automatic uninterrupted switching (on/off), to test the ability to withstand the impact of transient currents. Guarantee the lifetime of products, which based on CIE:127/GB-T24824.

Reliability Testing:

1. Thermal Shock Test, alternating heating and cooling. Instantaneously change -40°C — 150°C . Get the test result which have chemical change or physical injury caused by expansion and contraction with heat in a short time. Based on IEC60068-2-14.
2. Power Temperature Cycle Test, -40°C — 65°C , Continuous simulation of environment operation, by control the temperature and humidity; To test the product if can be used normally in constant temperature and humidity environment. Based on IEC 60068.
3. 3M adhesive Tape Drop Test. To test the 3M tape viscosity, make sure the reliability of the 3M in using environment.
4. Drop Test. Simulation of dropping. Free fall that may be encountered during handling, test the ability to resist accidental impact.
5. Vibration Test. Simulating the damage caused by bumps in the car transportation, used to identify the ability of a product to withstand environmental vibrations. So improve the material and packaging quality. Test Standard: ISTA-1A

Waterproof Testing:

Measure IP level, Different waterproof grade to 4, 5 and 6. Based on IEC60598.

SOL Testing:

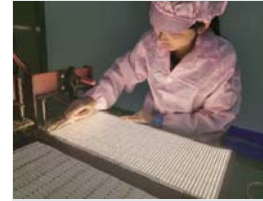
Dissolve the fluorescent glue, check the inside LED problem by microscope.

Optical Testing:

1. Integrating Sphere Test, Parameters such as Lumen, power and color temperature, CRI(Ra) etc.
2. IES / Goniophotometer Test, To get the IES data (Such as lumen, illumination, luminous efficiency, distribution curve flux, UGR index, etc.), meets the requirement CIE and IESNA standards.



Quality Control



IQC

- ◎ Conduct incoming materials quality control with reliable equipment
- ◎ Conduct reliable tests
- ◎ Prepare IQC Reports

IPQC

- ◎ Conduct first product inspections in different stage of production
- ◎ Inspect the process of production
- ◎ Conduct aging tests
- ◎ Ensure the consistency and accuracy of products
- ◎ Discover, record and report quality exception



OQC

- ◎ Conduct the finished product quality inspections according to inspection standards and procedures
- ◎ Provide quality problem analysis and dispose of defective products
- ◎ Test the final products and check the instruments and equipment



QE

- ◎ Verify and confirm the whole process of new products, new raw materials, new technologies and new modifications
- ◎ Train the IQC, IPQC, OQC before the massive production of new products
- ◎ Discover and improve the production technology related to the inappropriate procedures
- ◎ Handle the process exceptions, tracking and improving



QM

- ◎ Provide quality management
- ◎ Provide staff training
- ◎ Manage the whole quality control system



CRI

(COLOR RENDERING INDEX)



COMPACT FLUORESCENT
50 CRI

STANDARD LED
80 CRI

LUX HIGH CRI
90+ CRI

Q What is CRI R9 and Why is it Important?

A CRI R9 is one of the test color samples (TCS) used in the calculation of extended CRI. Many manufacturers will only report general CRI, however, which does not include the CRI R9 score.

CRI R9 is therefore oftentimes a useful supplemental score to judge a light source's color rendering ability, specifically as it concerns objects whose reflectance spectra contain red wavelengths.

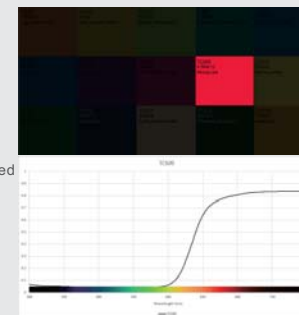
Q What is CRI R9?

A R9 is the score that represents how accurately a light source will reproduce strong red colors.

"Accurate" is defined as similarity to daylight or incandescent bulbs, depending on the color temperature.

Just like each of the CRI R value calculations, R9 is calculated by calculating the reflected color from a theoretical object with the reflectance profile defined as TCS9. The reflectance spectra is provided below:

What is notable is that the TCS9 spectrum is almost entirely composed of red light. Spectrum-wise, we see this as wavelengths longer than 600 nm. This means that if there is not enough red light in the light source, it will make red colors appear "off" or different.

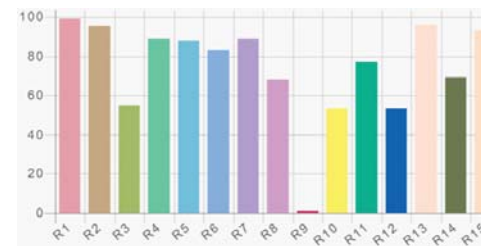


Q Why is CRI R9 important?

A CRI R9 is a very important metric because many light sources will be lacking in red content, but this fact will be hidden due to the averaging out of CRI calculations which do not include R9.

As the chart below shows, an light source can actually perform quite well with the first 8 test color samples, scoring quite well for R1-R8. For the general CRI Ra metric, this means that an LED with poor red color rendering can still get by with an 80 CRI (Ra) rating.

A closer look at the R9 value, however, reveals that the light will perform very poorly for red colors in particular.



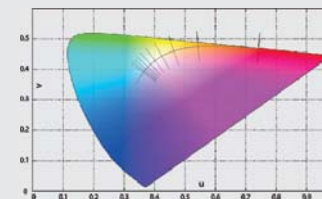
Q What is a good CRI R9 value?

A Although the maximum possible value of R9 is also 100, unlike average CRI numbers, R9 should be judged a bit differently.

Mathematically, R9 is far more difficult to achieve a high score compared to the other R values that comprise the CRI calculations, and is far more sensitive to spectral variations. Therefore, an R9 score of 50 or above would be considered "good" while an R9 score of 90 or above would be considered "excellent."

You will therefore find that most lighting products available in the market will rarely specify the R9 value, and when they do, rarely will they guarantee anything higher than 50.

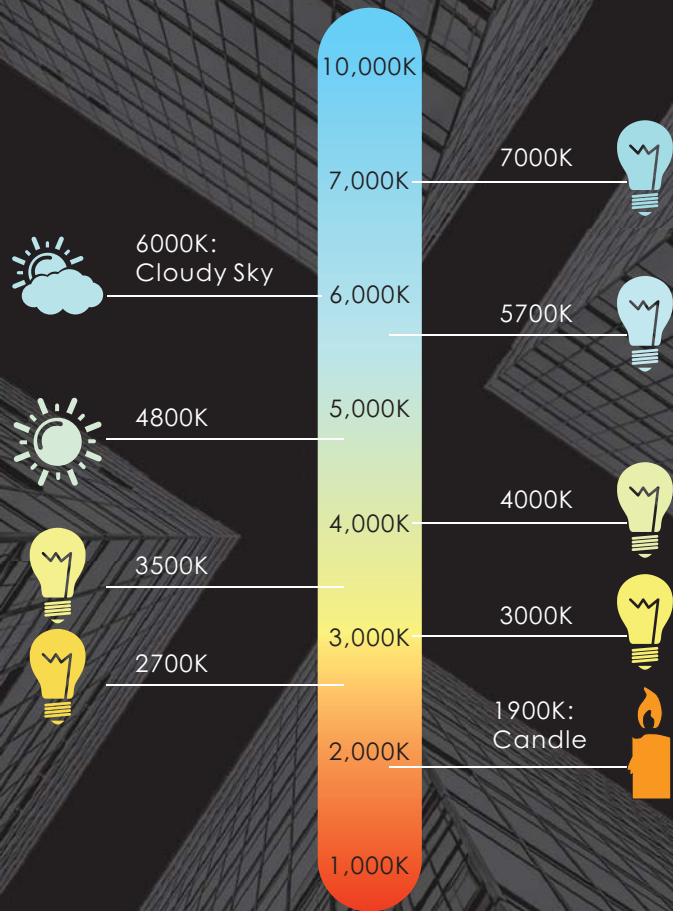
This is due to the fact that CRI utilizes the CIE 1960 uv color space, which is skewed in a way that exaggerates color differences in the red region of the chromatic diagram. Since CRI is a calculation that quantifies color differences between a light source and a reference source, a larger calculated color difference will result in a larger decrease in the R score.



Q Why is red such an important color?

A Red is a crucial color for many applications including photography, textiles and reproduction of human skin tones. When searching for a high color quality LED, be sure to inquire about the CRI as well as its R9 value.

KELVIN COLOR TEMPERATURE SCALE CHART



WATERPROOF TYPE IP20-IP68

IP RATING	STRUCTURE	FEATURE	REMARK
IP20		Non Waterproof suitable	Indoor use Only
IP54		Nano Coating Waterproof	Thin Film Coating Anti Splash Water Tiny size Changed (Same looking as IP20)
IP65		Silicon Glue Coating Waterproof Suitable for Damp Location	Silicon Glue Dripping Dropping Anti splash Water Tiny Size Changed
IP67A		Silicon Extrusion Waterproof Suitable for Short-time wet Location	Extruding Process Immerse in Water for Long time tiny Color Shift
IP67B		Silicon Tube Waterproof Suitable for Damp Location	Silicon Empty inside Anti Spray Water Tiny Color Shift
IP67C		Silicon Extrusion Waterproof Suitable for Short-time wet Location	Extruding Process Immerse in Water for Long time tiny Color Shift
IP68		360° Silicon Filling Waterproof Suitable for Underwater	Use for outdoor and Underwater

IP code : Ingress Protection Marking, IEC standard 60529



CONTENTS

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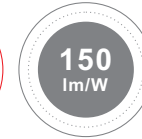
Noble

To be a flagship version



High Efficacy Series 150 & 200LM/W

CRI Available
80/90/98



Product Options



Power



Cables



Profiles



Connectors



PCB



Controller

High Efficacy Strip will save cost. With stable quality, operating in the low power and excellent in heat dissipation and no need installed with heat sink. Also extended lifespan.

01 High Efficiency 150 lm/W

2835 64 LEDs/m 4.8 W/m

CRI Available
80/90/98

High Efficacy

150 lm/W

Features

- 8 LEDs in series per circuit section, available to achieve highlight, efficacy output up to 150lm/W
- Operate longer life and better for energy saving
- Standard strip is CRI>80 and provide High CRI>90/98 option

Diagram



Dimensions (mm/inch)

Length/Reel	Width	Height	Min. Cutting
5000/196.85	8/0.315	1.65/0.0649	Every 125 mm/4.921inch (8 LEDs)

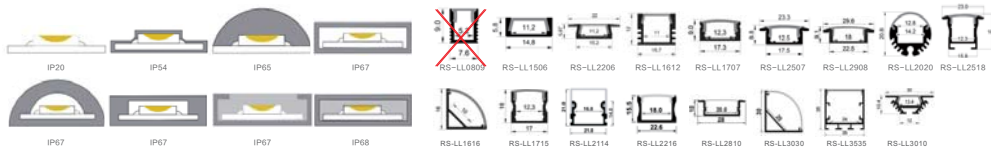
Data

Part Number	Working Voltage	Power (W/m)	Current (A/m)	LED Qty/m	CRI
RS-HE2835-24V-64D-08-20	24V	4.8	0.21	64	80+

CCT (° K)	Luminous Efficiency	Color	lumen/m
2700K	145 lm/W	Extra Warm	696 lm/m
3000K	145 lm/W	Warm White	696 lm/m
4000K	149 lm/W	Neutral White	715 lm/m
6000K	149lm/W	Cool White	715 lm/m

IP Rating

AL Profiles



► Suitable Accessories
Refer to Page 143

02 High Efficiency 150 lm/W

2835 80 LEDs/m 7.2W/m

CRI Available
80/90/98

High Efficacy

150 lm/W

Features

- 4 LEDs in series per circuit section, available to achieve highlight, efficacy output up to 150lm/W
- Operate longer life and better for energy saving
- Standard strip is CRI>80 and provide High CRI>90/98 option

Diagram



Dimensions (mm/inch)

Length/Reel	Width	Height	Min. Cutting
5000/196.85	10/0.3937	1.45/0.057	Every 50 mm/1.9685inch (4 LEDs)

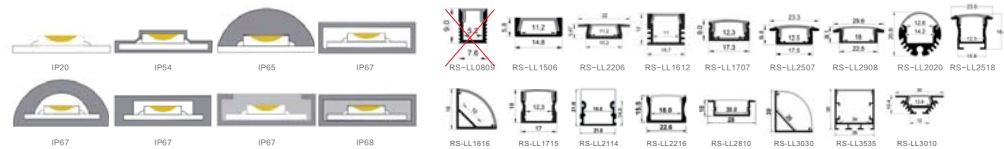
Data

Part Number	Working Voltage	Power (W/m)	Current (A/m)	LED Qty/m	CRI
RS-HE2835-12V-80D-10-20	12V	7.2	0.6	80	80+

CCT (° K)	Luminous Efficiency	Color	lumen/m
2700K	155 lm/W	Extra Warm	1116 lm/m
3000K	155 lm/W	Warm White	1116 lm/m
4000K	172.51 lm/W	Neutral White	1242 lm/m
6000K	172.51 lm/W	Cool White	1242 lm/m

IP Rating

AL Profiles

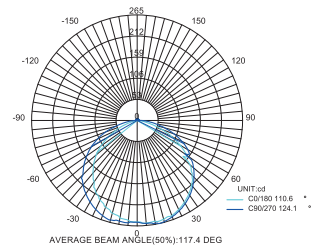


► Suitable Accessories
Refer to Page 143

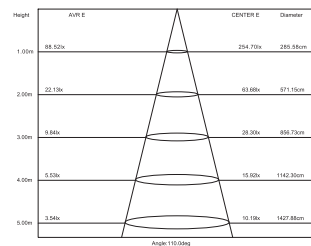


Photometric Diagrams

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

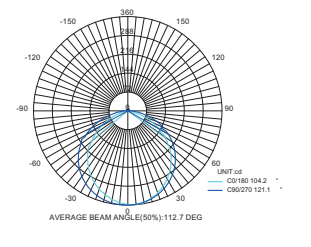


Illuminance Distribution

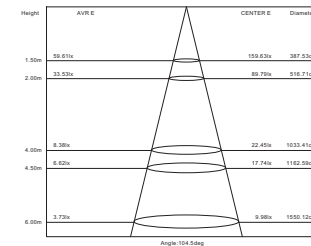


Photometric Diagrams

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Illuminance Distribution



03 High Efficiency 150 lm/W

2835 80 LEDs/m 7.2W/m

CRI Available
80/90/98

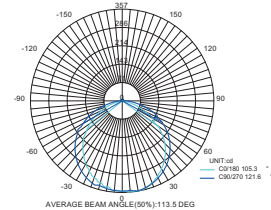
High Efficacy

150 lm/W



Photometric Diagrams

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Illuminance Distribution

Features

- 8 LEDs in series per circuit section, available to achieve highlight, efficacy output up to 150lm/W
- Operate longer life and better for energy saving
- Standard strip is CRI>80 and provide High CRI>90/98 option

Diagram



Dimensions (mm/inch)

Length/Reel	Width	Height	Min. Cutting
5000/196.85	10/0.3937	1.65/0.0649	Every 100 mm/3.937inch (8 LEDs)

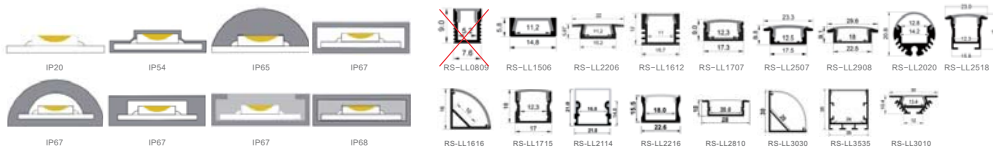
Data

Part Number	Working Voltage	Power (W/m)	Current (A/m)	LED Qty/m	CRI
RS-HE2835-24V-80D-10-20	24V	7.2	0.3	80	80+

CCT (° K)	Luminous Efficiency	Color	lumen/m
2700K	155 lm/W	Extra Warm	1116 lm/m
3000K	155 lm/W	Warm White	1116 lm/m
4000K	163 lm/W	Neutral White	1173.6 lm/m
6000K	163 lm/W	Cool White	1173.6 lm/m

IP Rating

AL Profiles



► Suitable Accessories
Refer to Page 143

04 High Efficiency 150 lm/W

2835 120 LEDs/m 9.6W/m

CRI Available
80/90/98

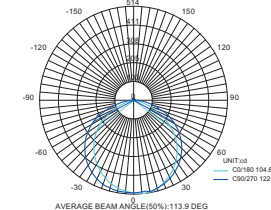
High Efficacy

150 lm/W

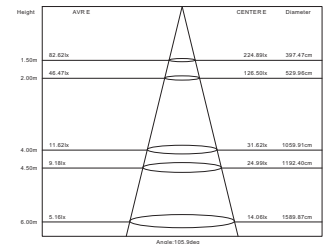


Photometric Diagrams

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



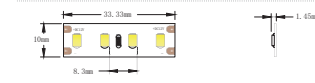
Illuminance Distribution



Features

- 4 LEDs in series per circuit section, available to achieve highlight, efficacy output up to 150lm/W
- Operate longer life and better for energy saving
- Standard strip is CRI>80 and provide High CRI>90/98 option

Diagram



Dimensions (mm/inch)

Length/Reel	Width	Height	Min. Cutting
5000/196.85	10/0.3937	1.45/0.057	Every 33.33 mm/1.3122inch (4 LEDs)

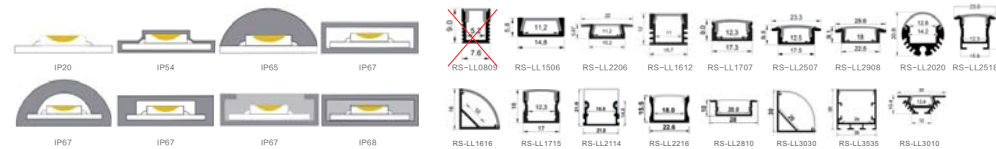
Data

Part Number	Working Voltage	Power (W/m)	Current (A/m)	LED Qty/m	CRI
RS-HE2835-12V-120D-10-20	12V	9.6	0.8	120	80+

CCT (° K)	Luminous Efficiency	Color	lumen/m
2700K	155.35 lm/W	Extra Warm	1491.3 lm/m
3000K	155.35 lm/W	Warm White	1491.3 lm/m
4000K	163.53 lm/W	Neutral White	1569.9 lm/m
6000K	163.53 lm/W	Cool White	1569.9 lm/m

IP Rating

AL Profiles



► Suitable Accessories
Refer to Page 143

05 High Efficiency 150 lm/W

2835 128 LEDs/m 9.6W/m

CRI Available
80/90

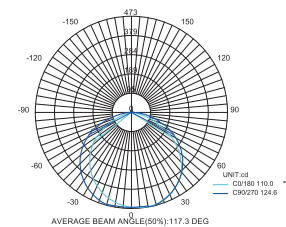
High Efficacy

150 lm/W

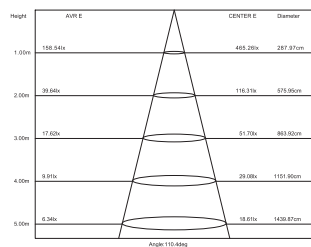


Photometric Diagrams

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



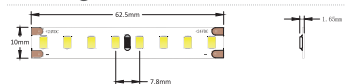
ILLUMINANCE DISTRIBUTION



Features

- 8 LEDs in series per circuit section, available to achieve high light , efficacy output up to 150lm/W
- Operate longer life and better for energy saving
- Standard strip is CRI>80 and provide High CRI>90 option

Diagram



Dimensions (mm/inch)

Length/Reel	Width	Height	Min. Cutting
5000/196.85	10/0.3937	1.65/0.0649	Every 62.5mm/2.46inch (8 LEDs)

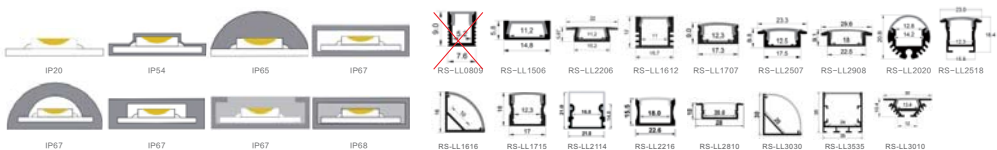
Data

Part Number	Working Voltage	Power (W/m)	Current (A/m)	LED Qty/m	CRI
RS-HE2835-24V-128D-10-20	24V	9.6	0.4	128	80+

CCT (° K)	Luminous Efficiency	Color	lumen/m
2700K	155 lm/W	Extra Warm	1488 lm/m
3000K	155 lm/W	Warm White	1488 lm/m
4000K	162.75 lm/W	Neutral White	1562.4 lm/m
6000K	162.75 lm/W	Cool White	1562.4 lm/m

IP Rating

AL Profiles



► Suitable Accessories
Refer to Page 143

06 High Efficiency 150 lm/W

2835 160 LEDs/m 14.4W/m

CRI Available
80/90/98

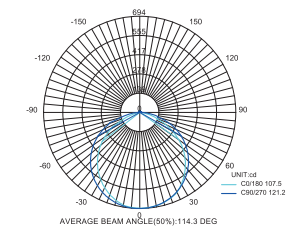
High Efficacy

150 lm/W

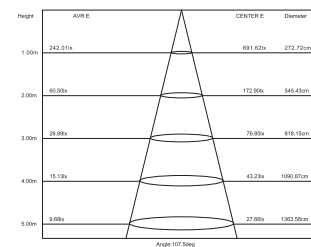


Photometric Diagrams

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



ILLUMINANCE DISTRIBUTION



Features

- 8 LEDs in series per circuit section, available to achieve high light , efficacy output up to 150lm/W
- Operate longer life and better for energy saving
- Standard strip is CRI>80 and provide High CRI>90/98 option

Diagram



Dimensions (mm/inch)

Length/Reel	Width	Height	Min. Cutting
5000/196.85	10/0.3937	1.65/0.0649	Every 50 mm/1.968 inch (8 LEDs)

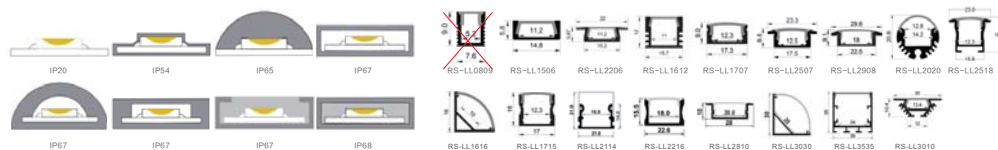
Data

Part Number	Working Voltage	Power (W/m)	Current (A/m)	LED Qty/m	CRI
RS-HE2835-24V-160D-10-20	24V	14.4	0.56	160	80+

CCT (° K)	Luminous Efficiency	Color	lumen/m
2700K	146 lm/W	Extra Warm	2103 lm/m
3000K	146 lm/W	Warm White	2103 lm/m
4000K	157 lm/W	Neutral White	2260 lm/m
6000K	157 lm/W	Cool White	2260 lm/m

IP Rating

AL Profiles



► Suitable Accessories
Refer to Page 143

07 High Efficiency 150 lm/W

2835 192 LEDs/m 18W/m

CRI Available
80/90

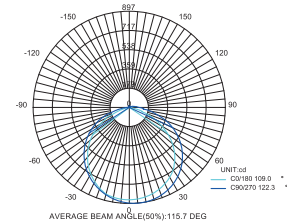
High Efficacy

150 lm/W



Photometric Diagrams

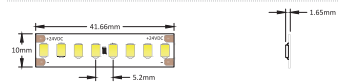
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Features

- 8 LEDs in series per circuit section, available to achieve high light , efficacy output up to 150lm/W
- Operate longer life and better for energy saving
- Standard strip is CRI>80 and provide High CRI>90 option

Diagram



Dimensions (mm/inch)

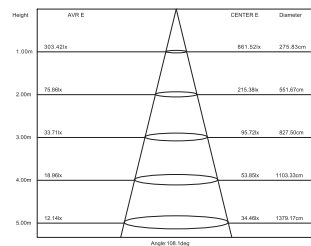
Length/Reel	Width	Height	Min. Cutting
5000/196.85	10/0.3937	1.65/0.0649	Every 41.66 mm /1.64 inch (8 LEDs)

Data

Part Number	Working Voltage	Power (W/m)	Current (A/m)	LED Qty/m	CRI
RS-HE2835-24V-192D-10-20	24V	18	0.79	192	80+

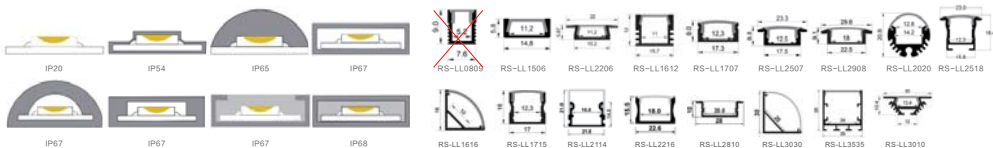
CCT (° K)	Luminous Efficiency	Color	lumen/m
2700K	143 lm/W	Extra Warm	2574 lm/m
3000K	143 lm/W	Warm White	2574 lm/m
4000K	150 lm/W	Neutral White	2700 lm/m
6000K	150 lm/W	Cool White	2700 lm/m

Illuminance Distribution



IP Rating

AL Profiles



► Suitable Accessories
Refer to Page 143

08 High Efficiency 150 lm/W

2835 240 LEDs/m 21.6W/m

CRI Available
80/90

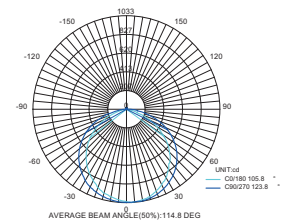
High Efficacy

150 lm/W



Photometric Diagrams

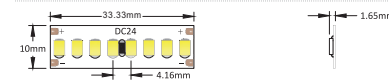
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



Features

- 8 LEDs in series per circuit section, available to achieve high light , efficacy output up to 150lm/W
- Operate longer life and better for energy saving
- Standard strip is CRI>80 and provide High CRI>90 option

Diagram



Dimensions (mm/inch)

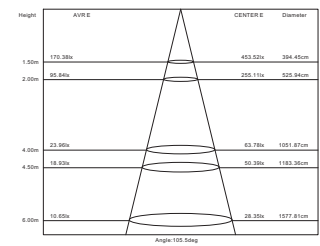
Length/Reel	Width	Height	Min. Cutting
5000/196.85	10/0.3937	1.65/0.0649	Every 33.33 mm /2.46inch (8 LEDs)

Data

Part Number	Working Voltage	Power (W/m)	Current (A/m)	LED Qty/m	CRI
RS-HE2835-24V-240D-10-20	24V	21.6	0.9	240	80+

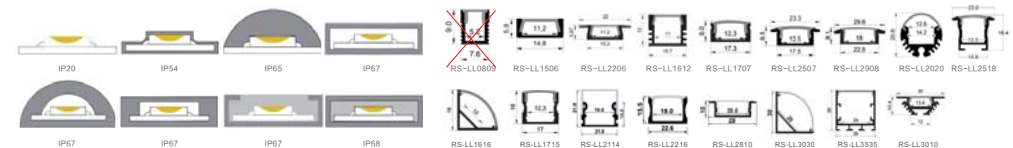
CCT (° K)	Luminous Efficiency	Color	lumen/m
2700K	147.87 lm/W	Extra Warm	3193.99 lm/m
3000K	147.87 lm/W	Warm White	3193.99 lm/m
4000K	155.66 lm/W	Neutral White	3362.25 lm/m
6000K	155.66lm/W	Cool White	3362.25 lm/m

Illuminance Distribution



IP Rating

AL Profiles



► Suitable Accessories
Refer to Page 143