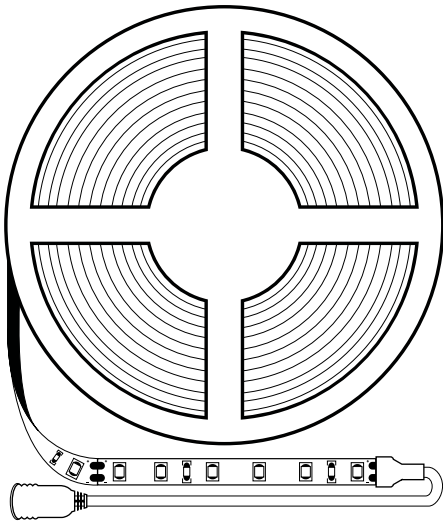


# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT



## Product Description

For any application where the appearance of displayed objects is tremendously important, there is no equivalent of Solid Apollo's ULTRA High CRI 2835 38W. This strip has an incredibly high Color Rendering Index up to 97+, and is able to bring out the original authentic colors of objects much better than regular LED strip lights. Even hard to render colors like vivid reds and deep blues are highly rated from 87 to 97 where other LED strips lack. The main features of the strip include:

- UL Listed for Safety and Durability.
- High Color Rendering Index up to 97+.
- Includes female barrel connector for easy setup.
- Clearly marked cut points every 2.5".
- Easy installation with a built-in 3M tape.
- Fully dimmable to any desired brightness with optional Dimmers.
- Wide range of white color temperatures to choose from (see table below).

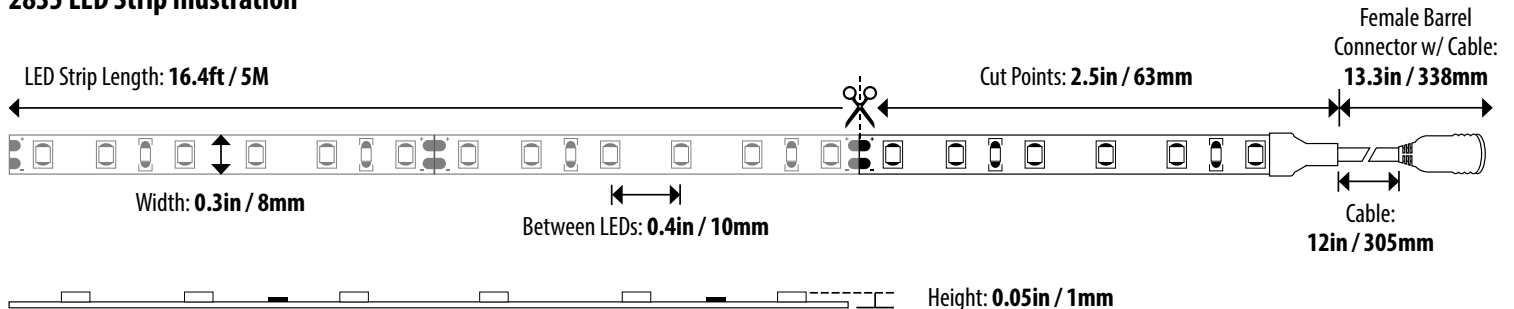
**480 LEDs**  
**16.4ft**

**UP TO 230+ LUMENS / FT**

## Quick Spec.

- **Fully Dimmable:** Yes
- **Voltage:** 24V DC
- **Total Wattage:** 38W
- **Beam Angle:** 118°-119°
- **UL Rating #:** E493881
- **PCB Width:** 8mm / 0.3"
- **Dimensions:** 196.8" x 0.3" x 0.05"
- **Working Temperature:** -40° to 122°F

## 2835 LED Strip Illustration



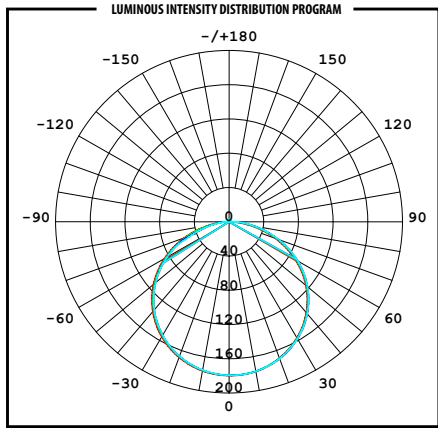
## Technical Information

Available LED Color	SKU#	Temp (K)	Total LEDs	Lumens / Ft.	Max Wattage	LED Type	Color Rendering Index	Minimum Cut
Candlelight Warm White	SA-LS-ULTRA-CLWW-2835-480-24V	2400K	480	181	38W	SMD 2835	95+	2.5in / 63mm
Super Warm White	SA-LS-ULTRA-SWW-2835-480-24V	2700K	480	194	38W	SMD 2835	96+	2.5in / 63mm
Warm White	SA-LS-ULTRA-WW-2835-480-24V	3000K	480	197	38W	SMD 2835	97+	2.5in / 63mm
Neutral Warm White	SA-LS-ULTRA-NWW-2835-480-24V	3500K	480	218	38W	SMD 2835	97+	2.5in / 63mm
Daylight White	SA-LS-ULTRA-DLW-2835-480-24V	4000K	480	219	38W	SMD 2835	96+	2.5in / 63mm
Natural White	SA-LS-ULTRA-NW-2835-480-24V	5000K	480	224	38W	SMD 2835	96+	2.5in / 63mm
White	SA-LS-ULTRA-W-2835-480-24V	6000K	480	238	38W	SMD 2835	96+	2.5in / 63mm

# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT PHOTOMETRICS

## Candlelight Warm White (2400K)

SKU: SA-LS-ULTRA-CLWW-2835-480-24V

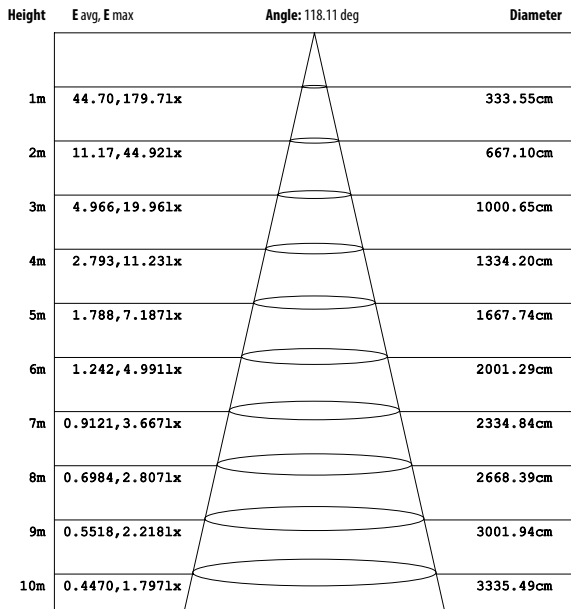


AVERAGE BEAM ANGLE (50%): **118.2 DEG**

UNIT: cd

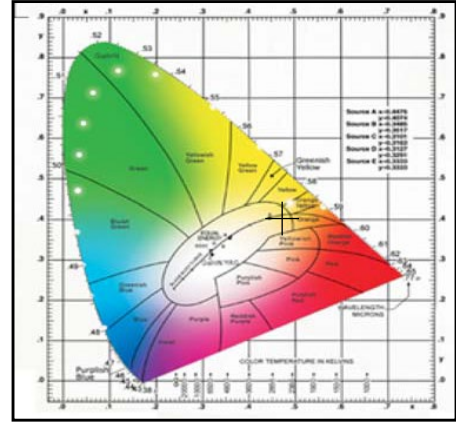
- C0 / 180, 118.3
- C30 / 210, 118.2
- C60 / 240, 118.2
- C90 / 270, 118.2

DEG.	Luminous Intensity: cd										DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g		
10	177.3	177.4	177.5	177.1	176.8	176.0	175.9	176.3	0-10		
20	169.5	170.3	170.2	169.6	168.7	167.2	167.2	167.9	10-20		
30	156.5	157.8	157.7	156.9	155.3	153.2	153.2	154.3	20-30		
40	138.6	140.3	140.3	139.1	136.9	134.6	134.3	135.8	30-40		
50	115.7	118.0	118.1	116.7	113.8	111.0	110.7	112.3	40-50		
60	88.22	91.20	91.34	89.82	86.34	82.99	82.71	84.50	50-60		
70	57.03	60.71	61.01	59.23	55.18	51.66	46.22	53.05	60-70		
80	25.16	29.53	30.20	27.70	23.69	18.50	18.09	19.03	70-80		
90	2.101	6.551	7.156	5.132	2.058	3.870	3.074	2.890	80-90		
100	0.6568	0.6820	0.9885	0.7066	0.5918	0.7808	0.8370	0.6407	90-100		
110	1.084	1.208	1.068	1.216	0.9614	0.8952	0.9942	0.9033	100-110		
120	1.494	1.668	1.650	1.618	1.323	1.240	1.323	1.215	110-120		
130	1.823	1.930	2.168	1.873	1.635	1.569	1.618	1.560	120-130		
140	1.963	2.119	2.431	2.111	1.972	1.971	1.873	1.824	130-140		
150	2.020	2.308	2.497	2.292	2.292	2.218	2.194	2.135	140-150		
160	2.160	2.456	2.497	2.423	2.547	2.439	2.572	2.480	150-160		
170	2.349	2.571	2.546	2.489	2.661	2.628	2.859	2.645	160-170		
180	2.653	2.752	2.900	2.768	2.653	2.735	2.908	2.735	170-180		



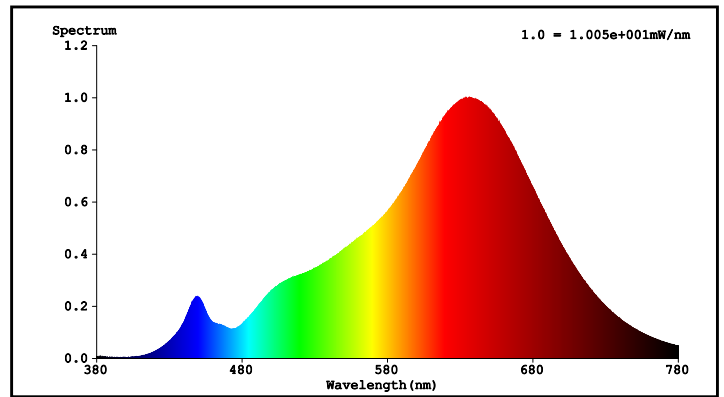
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

CIE1931 CHROMATICITY DIAGRAM

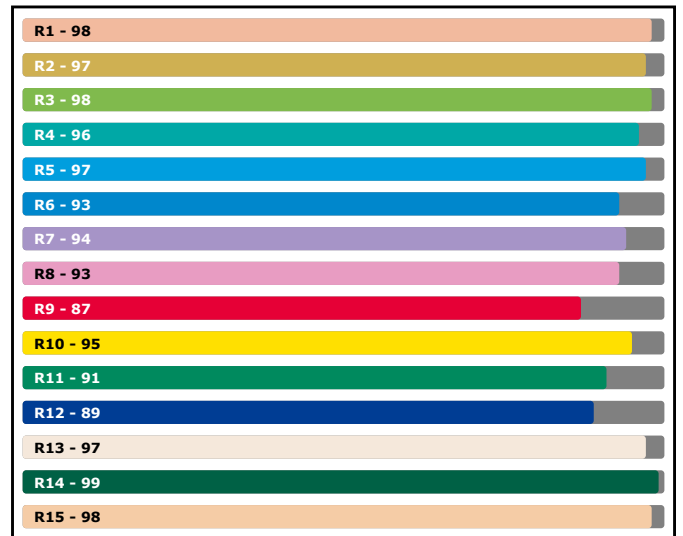


X = 0.4831 Y = 0.4043 CCT = 2359K

SPECTRAL DISTRIBUTION



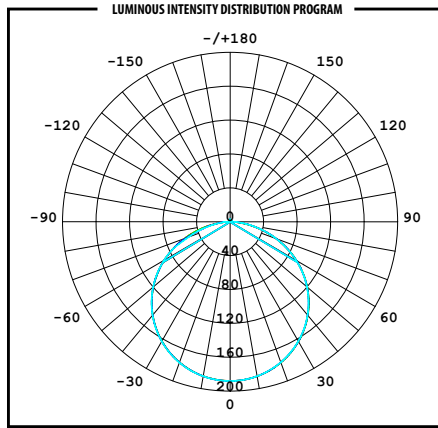
COLOR RENDERING INDEX (CRI) GRAPH



# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT PHOTOMETRICS

## Super Warm White (2700K)

SKU: SA-LS-ULTRA-SWW-2835-480-24V

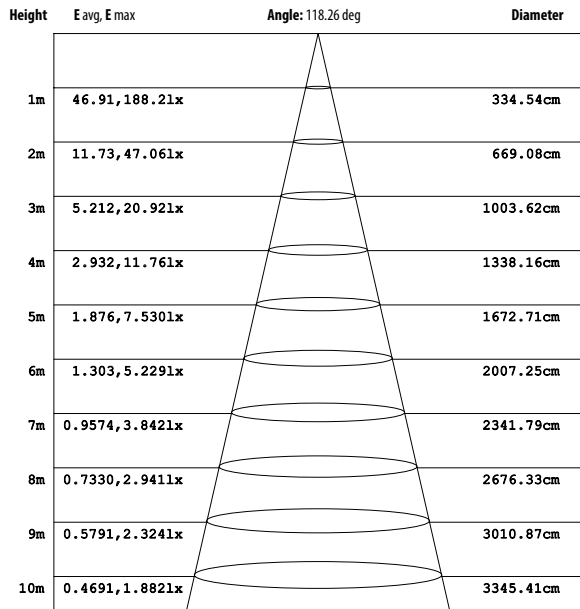


AVERAGE BEAM ANGLE (50%): **118.3 DEG**

UNIT: cd

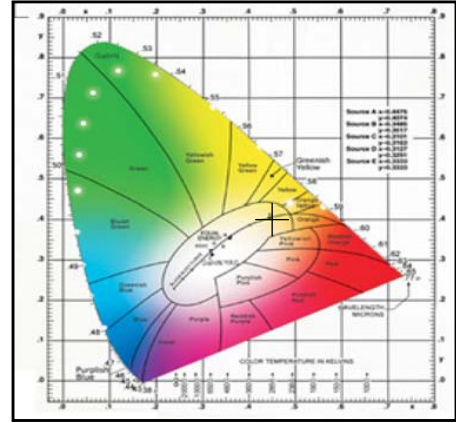
- C0 / 180, 118.3
- C60 / 240, 118.2
- C30 / 210, 118.3
- C90 / 270, 118.3

DEG.	Luminous Intensity: cd									DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g	
10	185.4	185.4	185.3	185.4	185.3	185.3	185.4	185.5	0-10	
20	177.1	177.2	176.8	177.0	176.9	176.9	177.2	177.2	10-20	
30	163.4	163.5	163.0	163.2	163.1	163.0	163.4	163.4	20-30	
40	144.5	144.6	144.0	144.2	144.1	143.9	144.3	144.5	30-40	
50	120.4	120.7	120.0	120.3	120.1	119.7	120.2	120.4	40-50	
60	91.61	92.12	91.30	91.64	91.41	90.75	91.49	91.58	50-60	
70	59.00	59.75	59.24	59.14	58.73	58.01	53.16	58.85	60-70	
80	25.73	27.36	27.25	26.58	25.76	20.48	22.12	22.94	70-80	
90	2.719	4.755	4.297	3.925	2.137	3.343	4.404	4.180	80-90	
100	0.7795	0.7806	0.7393	0.7725	0.6656	0.9862	1.124	0.6407	90-100	
110	1.199	1.356	1.223	1.331	1.035	0.9280	1.002	0.9199	100-110	
120	1.626	1.832	1.823	1.750	1.413	1.298	1.347	1.297	110-120	
130	1.979	2.095	2.349	1.996	1.758	1.618	1.668	1.601	120-130	
140	2.095	2.292	2.604	2.259	2.087	2.061	1.947	1.897	130-140	
150	2.152	2.481	2.661	2.440	2.432	2.357	2.284	2.234	140-150	
160	2.324	2.612	2.661	2.571	2.703	2.554	2.703	2.620	150-160	
170	2.489	2.719	2.743	2.620	2.850	2.760	2.998	2.776	160-170	
180	2.801	2.908	3.047	2.924	2.842	2.900	3.056	2.900	170-180	



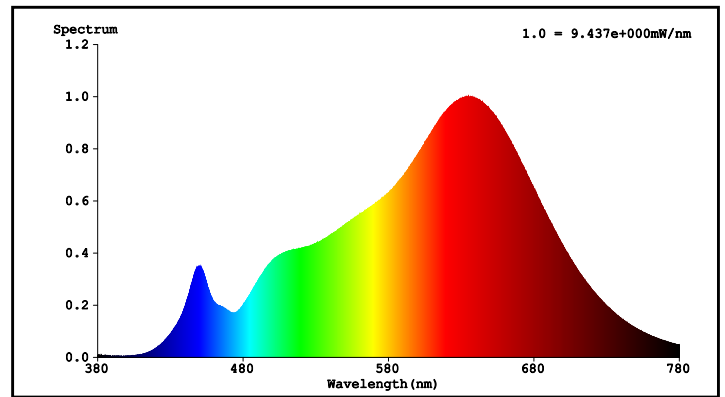
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

CIE1931 CHROMATICITY DIAGRAM

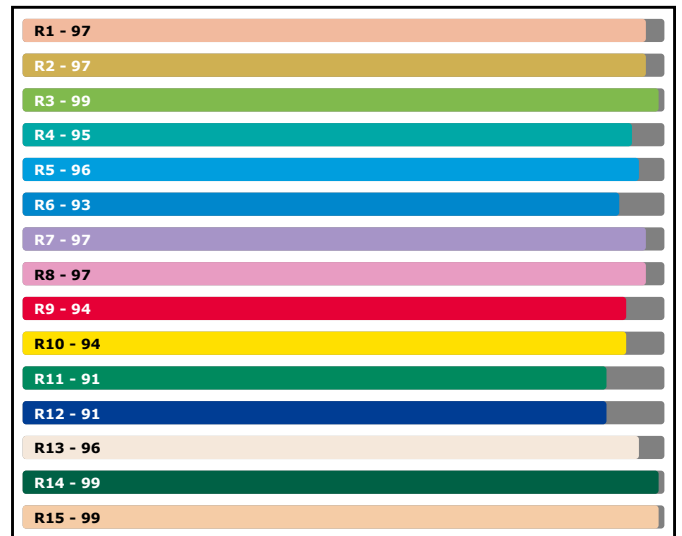


X = 0.4540 Y = 0.4022 CCT = 2717K

SPECTRAL DISTRIBUTION



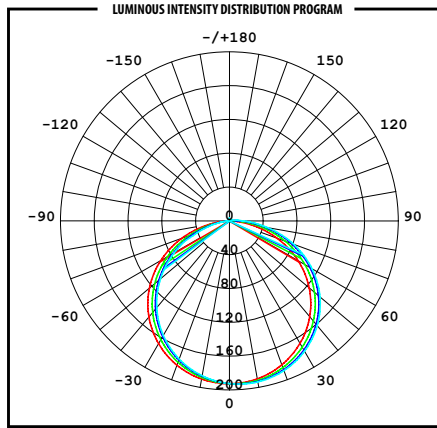
COLOR RENDERING INDEX (CRI) GRAPH



# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT PHOTOMETRICS

## Warm White (3000K) & Neutral Warm White (3500K)

SKU: SA-LS-ULTRA-WW-2835-480-24V & SA-LS-ULTRA-NWW-2835-480-24V

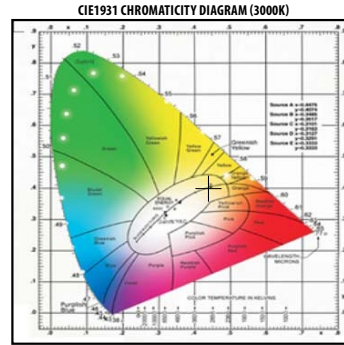


AVERAGE BEAM ANGLE (50%): 118.7 DEG

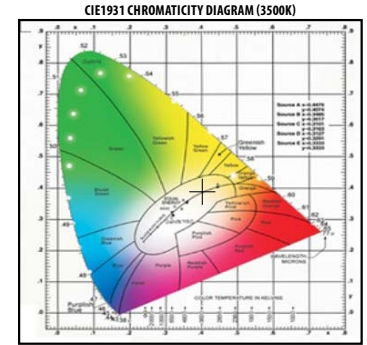
UNIT: cd

- CO / 180, 118.7
- C60 / 240, 118.7
- C30 / 210, 118.7
- C90 / 270, 118.6

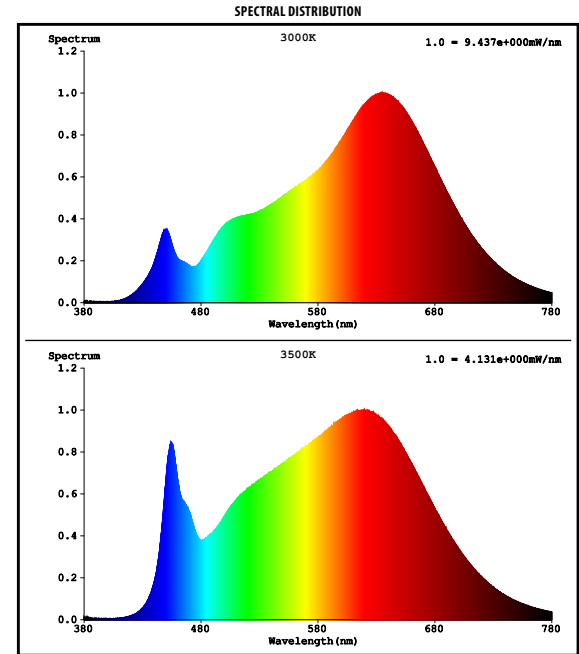
DEG.	Luminous Intensity: cd											DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g			
10	189.9	192.4	193.6	192.6	190.1	187.4	186.2	187.1	0-10			
20	181.4	186.5	188.7	186.9	181.9	176.4	174.2	176.0	10-20			
30	167.4	175.0	178.1	175.5	167.9	160.1	156.7	159.6	20-30			
40	148.1	157.9	161.9	158.4	148.6	138.5	134.2	137.9	30-40			
50	123.6	135.5	140.2	135.9	124.0	111.7	106.9	111.3	40-50			
60	94.13	107.9	113.1	108.1	94.40	80.78	76.07	80.49	50-60			
70	60.72	75.55	81.41	75.55	60.51	47.66	40.72	47.46	60-70			
80	26.43	40.99	46.86	40.85	26.15	13.98	14.05	15.27	70-80			
90	2.464	12.58	17.71	12.67	2.097	1.345	1.081	1.910	80-90			
100	0.8045	3.339	6.496	0.7064	0.6903	0.7715	0.9039	0.8050	90-100			
110	1.240	1.175	1.703	1.126	1.093	1.109	1.257	1.109	100-110			
120	1.692	1.643	1.560	1.545	1.463	1.470	1.586	1.446	110-120			
130	2.012	1.971	2.086	1.865	1.816	1.831	1.906	1.758	120-130			
140	2.160	2.218	2.480	2.136	2.169	2.226	2.169	2.086	130-140			
150	2.234	2.456	2.530	2.349	2.514	2.489	2.473	2.382	140-150			
160	2.390	2.637	2.538	2.530	2.801	2.677	2.859	2.710	150-160			
170	2.603	2.768	2.735	2.637	2.932	2.883	3.105	2.883	160-170			
180	2.891	2.982	3.162	2.965	2.932	2.990	3.162	2.900	170-180			



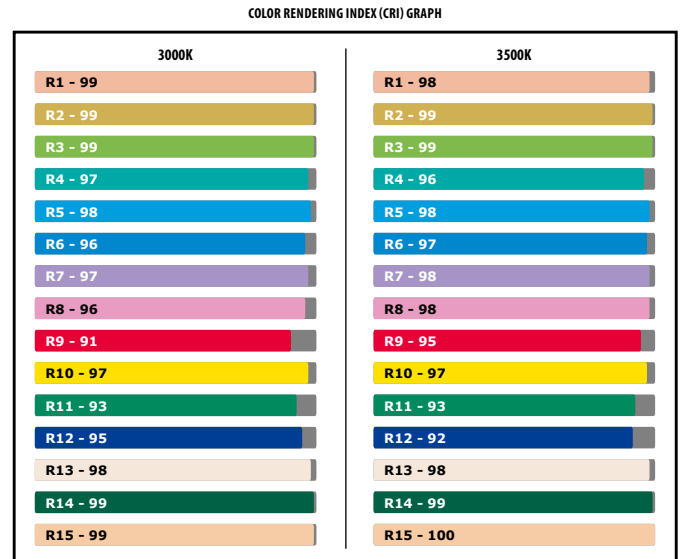
X = 0.4404 Y = 0.4026 CCT = 2930K



X = 0.4065 Y = 0.3916 CCT = 3482K



Height	E avg, E max	Angle: 118.61 deg	Diameter
1m	48.18, 193.01x		336.87cm
2m	12.04, 48.241x		673.75cm
3m	5.353, 21.441x		1010.62cm
4m	3.011, 12.061x		1347.49cm
5m	1.927, 7.7191x		1684.37cm
6m	1.338, 5.3601x		2021.24cm
7m	0.9832, 3.9381x		2358.12cm
8m	0.7528, 3.0151x		2694.99cm
9m	0.5948, 2.3821x		3031.86cm
10m	0.4818, 1.9301x		3368.74cm

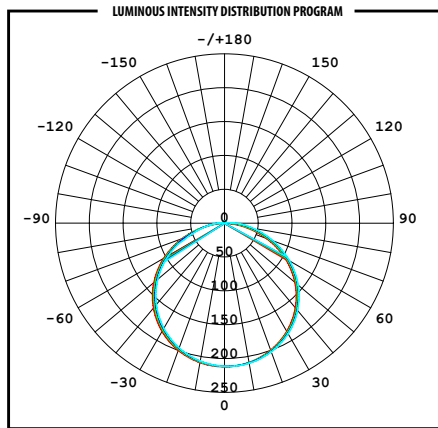


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT PHOTOMETRICS

## Daylight White (4000K)

SKU: SA-LS-ULTRA-DLW-2835-480-24V

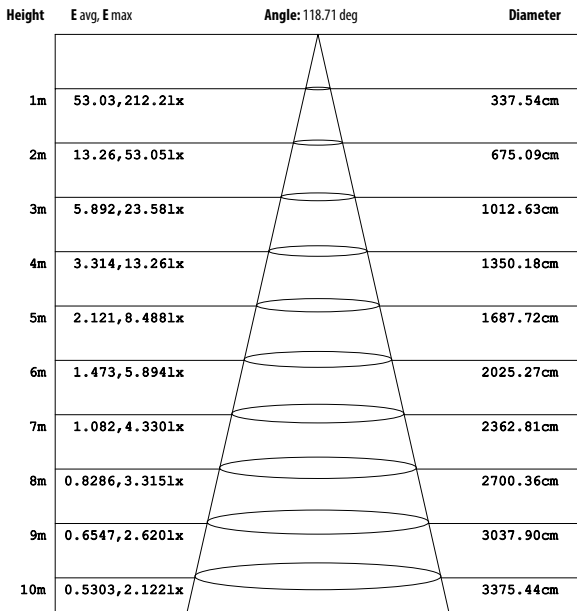


AVERAGE BEAM ANGLE (50%): 118.9 DEG

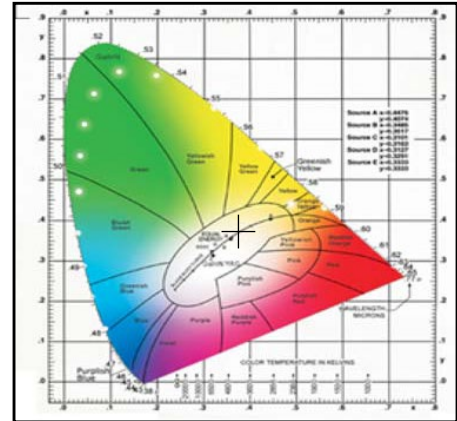
UNIT: cd

- C0 / 180, 118.9
- C60 / 240, 119.1
- C30 / 210, 119.1
- C90 / 270, 118.8

DEG.	Luminous Intensity: cd									DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g	
10	209.2	209.8	210.3	209.8	209.2	207.8	207.1	207.4	0-10	
20	200.0	201.8	202.5	201.8	200.1	197.6	196.4	197.0	10-20	
30	184.8	187.5	188.6	187.6	184.8	181.5	179.7	180.8	20-30	
40	163.6	167.3	168.6	167.3	163.7	159.5	157.3	158.5	30-40	
50	136.6	141.2	142.6	141.1	136.7	131.8	129.2	130.5	40-50	
60	104.1	109.5	111.4	109.1	104.1	99.22	96.30	97.56	50-60	
70	67.01	73.91	76.84	73.04	67.20	63.19	57.22	61.03	60-70	
80	29.34	38.77	43.23	37.76	29.44	26.94	28.00	24.39	70-80	
90	3.082	12.17	17.31	11.97	2.433	8.219	10.82	7.815	80-90	
100	0.9026	2.911	4.746	0.8299	0.7399	2.129	3.618	0.8050	90-100	
110	1.371	1.512	1.825	1.421	1.183	1.191	1.372	1.150	100-110	
120	1.856	1.996	1.963	1.922	1.602	1.503	1.594	1.544	110-120	
130	2.226	2.300	2.538	2.210	1.988	1.864	1.947	1.881	120-130	
140	2.374	2.538	2.883	2.473	2.382	2.332	2.259	2.234	130-140	
150	2.481	2.768	2.965	2.702	2.752	2.645	2.621	2.595	140-150	
160	2.612	2.941	2.957	2.875	3.048	2.891	3.064	2.924	150-160	
170	2.809	3.056	3.031	2.924	3.236	3.121	3.376	3.146	160-170	
180	3.187	3.269	3.433	3.236	3.245	3.277	3.450	3.179	170-180	

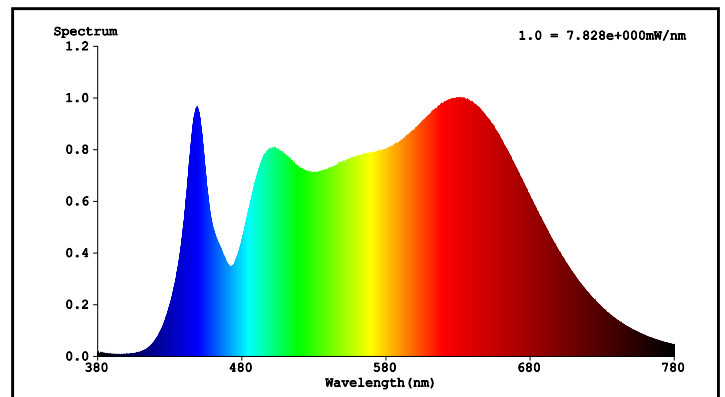


CIE1931 CHROMATICITY DIAGRAM

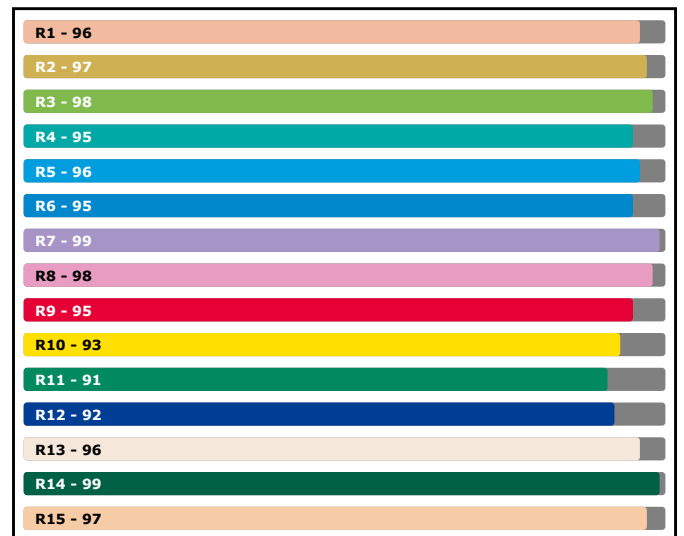


X = 0.3823 Y = 0.3781 CCT = 3960K

SPECTRAL DISTRIBUTION



COLOR RENDERING INDEX (CRI) GRAPH

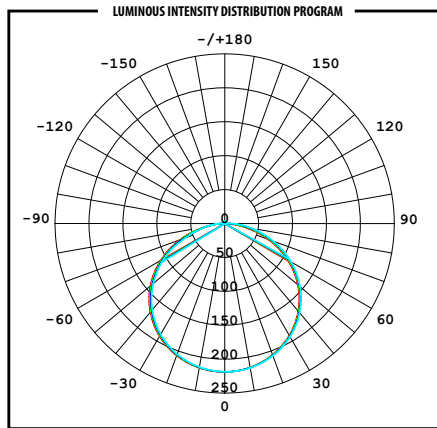


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT PHOTOMETRICS

## Natural White (5000K)

SKU: SA-LS-ULTRA-NW-2835-480-24V



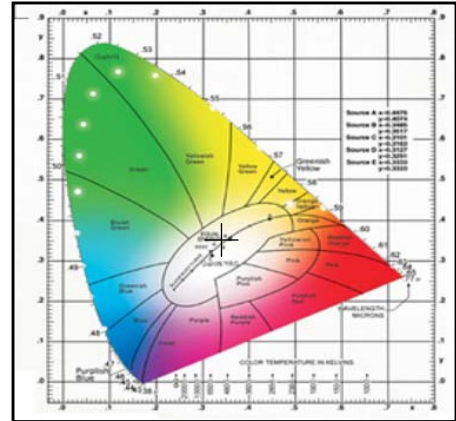
AVERAGE BEAM ANGLE (50%): 119.5 DEG

UNIT: cd

- C0 / 180, 119.5
- C60 / 240, 119.6
- C30 / 210, 119.6
- C90 / 270, 119.4

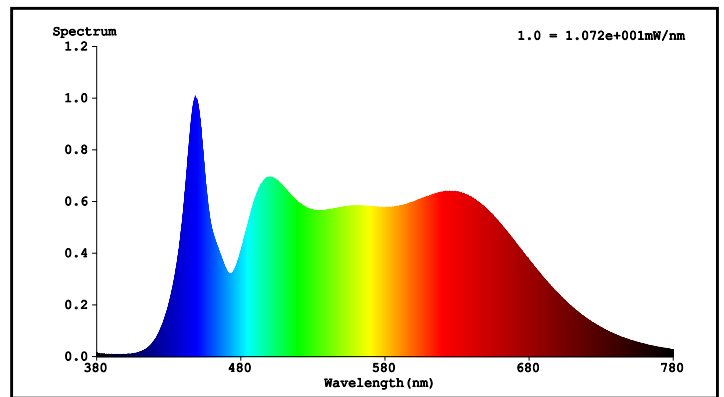
DEG.	Luminous Intensity: cd										DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g		
10	215.7	216.0	216.3	216.4	216.3	215.6	215.1	215.0	0-10		
20	206.2	207.1	207.6	207.9	207.3	206.0	205.2	205.0	10-20		
30	190.7	192.1	192.9	193.2	192.1	190.3	188.9	188.9	20-30		
40	169.0	171.1	172.1	172.4	170.8	168.2	166.5	166.5	30-40		
50	141.2	144.2	145.3	145.4	143.2	139.8	137.8	137.8	40-50		
60	107.6	111.4	113.0	112.6	109.6	105.7	103.4	103.5	50-60		
70	69.00	74.39	76.83	75.11	70.95	67.38	61.65	64.62	60-70		
80	29.68	37.55	41.34	37.21	31.29	26.50	28.85	24.49	70-80		
90	2.934	10.30	13.00	9.291	2.956	7.199	9.305	6.014	80-90		
100	0.9196	1.730	3.127	0.8546	0.7643	1.711	3.118	0.7718	90-100		
110	1.462	1.578	1.511	1.512	1.216	1.150	1.249	1.183	100-110		
120	1.971	2.128	2.102	2.029	1.668	1.552	1.643	1.577	110-120		
130	2.349	2.440	2.710	2.333	2.054	1.946	1.988	1.955	120-130		
140	2.489	2.670	3.022	2.604	2.457	2.406	2.317	2.324	130-140		
150	2.604	2.900	3.130	2.834	2.851	2.727	2.719	2.686	140-150		
160	2.751	3.072	3.097	3.006	3.155	2.990	3.171	3.055	150-160		
170	2.932	3.187	3.162	3.056	3.310	3.269	3.516	3.286	160-170		
180	3.302	3.401	3.565	3.433	3.310	3.392	3.573	3.417	170-180		

CIE1931 CHROMATICITY DIAGRAM



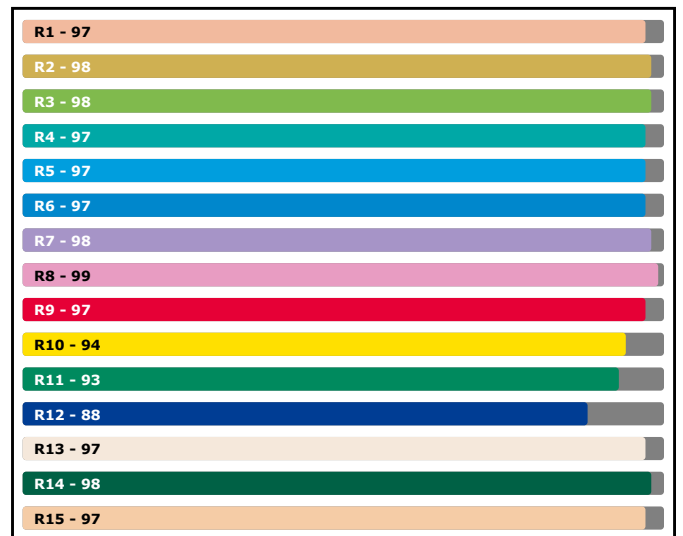
X = 0.3462 Y = 0.3535 CCT = 4965K

SPECTRAL DISTRIBUTION



Height	E avg, E max	Angle: 119.33 deg	Diameter
1m	55.05, 219.01x		341.75cm
2m	13.76, 54.751x		683.50cm
3m	6.117, 24.341x		1025.24cm
4m	3.441, 13.691x		1366.99cm
5m	2.202, 8.7611x		1708.74cm
6m	1.529, 6.0841x		2050.49cm
7m	1.123, 4.4701x		2392.24cm
8m	0.8602, 3.4221x		2733.98cm
9m	0.6796, 2.7041x		3075.73cm
10m	0.5505, 2.1901x		3417.48cm

COLOR RENDERING INDEX (CRI) GRAPH

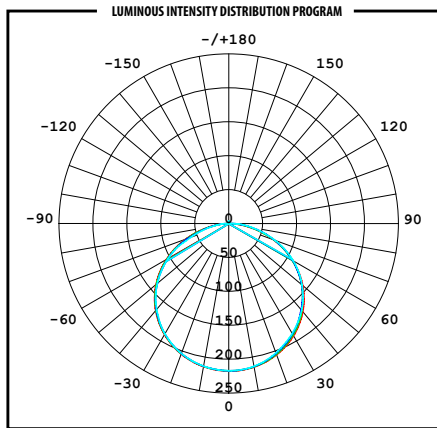


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT PHOTOMETRICS

**White (6000K)**

SKU: SA-LS-ULTRA-W-2835-480-24V



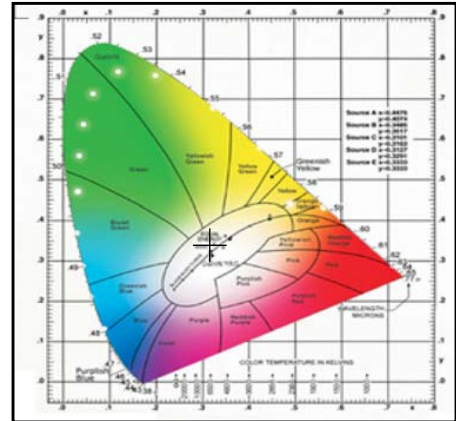
AVERAGE BEAM ANGLE (50%): **119.1 DEG**

UNIT: cd

- C0 / 180, 119.6    — C60 / 240, 118.9
- C30 / 210, 118.8    — C90 / 270, 119.1

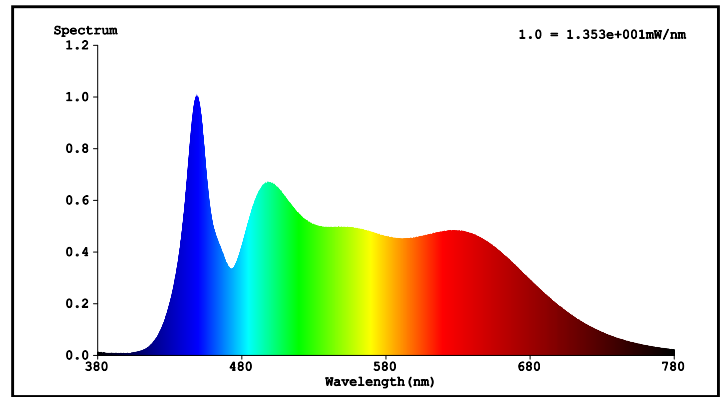
DEG.	Luminous Intensity: cd										DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g		
10	215.0	214.5	214.0	214.0	214.4	213.8	213.7	214.0	0-10		
20	206.2	204.9	203.2	204.2	205.0	204.1	204.1	204.6	10-20		
30	191.3	189.2	187.3	187.7	189.4	188.3	188.2	188.3	20-30		
40	170.0	166.9	167.2	166.1	167.8	166.3	165.5	166.8	30-40		
50	142.7	141.0	141.3	139.9	140.1	138.2	137.6	138.8	40-50		
60	109.5	108.9	110.0	107.6	106.7	104.0	103.6	105.0	50-60		
70	71.13	71.73	73.45	70.95	68.66	65.64	60.17	66.24	60-70		
80	31.87	34.04	36.47	34.18	29.82	24.36	25.57	23.80	70-80		
90	2.954	7.849	9.508	7.536	3.245	4.488	6.281	5.746	80-90		
100	0.9114	1.174	1.686	0.8956	0.7972	0.8296	1.402	0.8625	90-100		
110	1.421	1.602	1.445	1.545	1.257	1.174	1.314	1.174	100-110		
120	1.946	2.111	2.135	2.054	1.684	1.568	1.610	1.527	110-120		
130	2.324	2.431	2.743	2.333	2.079	1.938	1.955	1.881	120-130		
140	2.464	2.653	3.047	2.612	2.473	2.406	2.284	2.234	130-140		
150	2.563	2.900	3.138	2.834	2.875	2.735	2.670	2.612	140-150		
160	2.710	3.056	3.097	2.990	3.179	2.989	3.138	3.006	150-160		
170	2.916	3.163	3.146	3.048	3.310	3.212	3.483	3.252	160-170		
180	3.302	3.335	3.565	3.392	3.310	3.335	3.565	3.351	170-180		

CIE1931 CHROMATICITY DIAGRAM



X = 0.3212    Y = 0.3399    CCT = 6016K

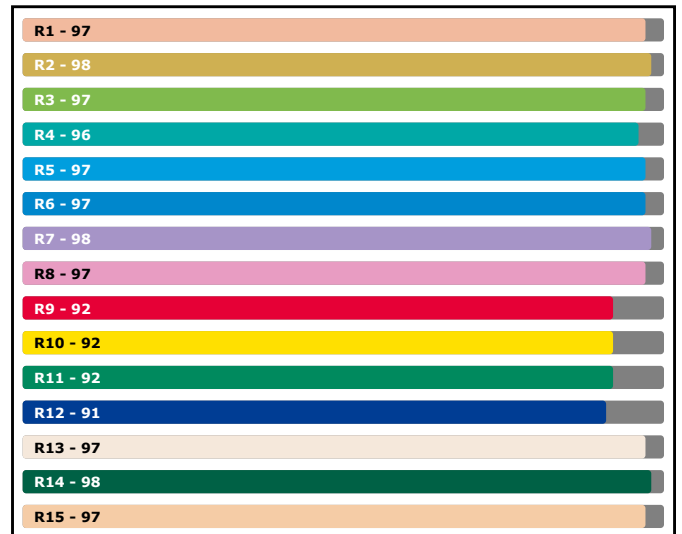
SPECTRAL DISTRIBUTION



Height    E avg, E max    Angle: 118.89 deg    Diameter

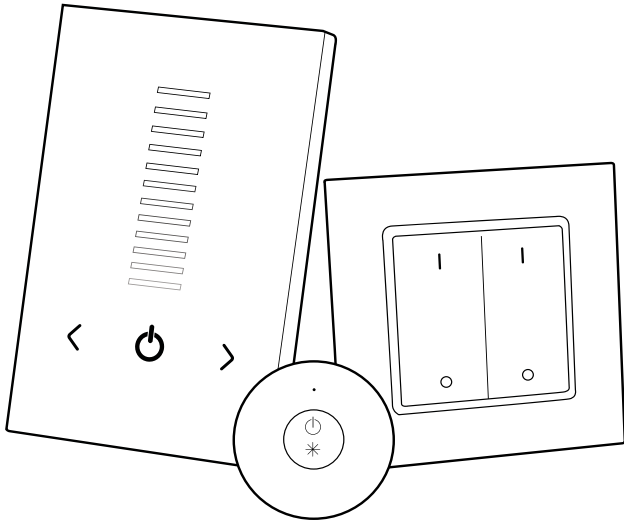
1m	54.37, 217.71x		338.76cm
2m	13.59, 54.431x		677.51cm
3m	6.041, 24.191x		1016.27cm
4m	3.398, 13.611x		1355.03cm
5m	2.175, 8.7081x		1693.78cm
6m	1.510, 6.0471x		2032.54cm
7m	1.109, 4.4431x		2371.30cm
8m	0.8495, 3.4021x		2710.06cm
9m	0.6712, 2.6881x		3048.81cm
10m	0.5437, 2.1771x		3387.57cm

COLOR RENDERING INDEX (CRI) GRAPH

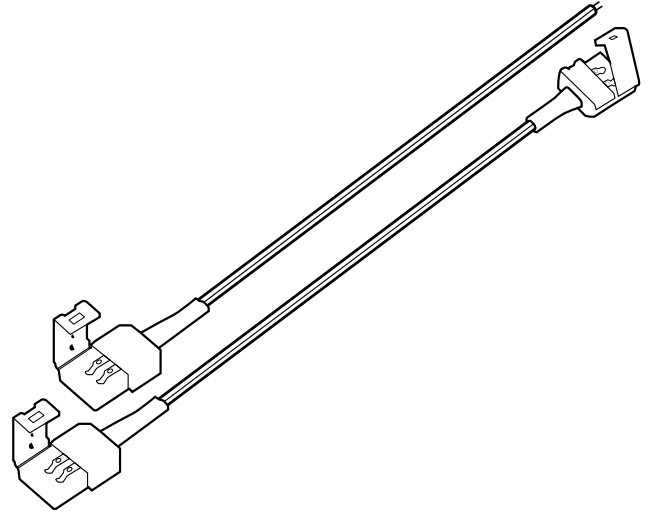


**Note:** The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

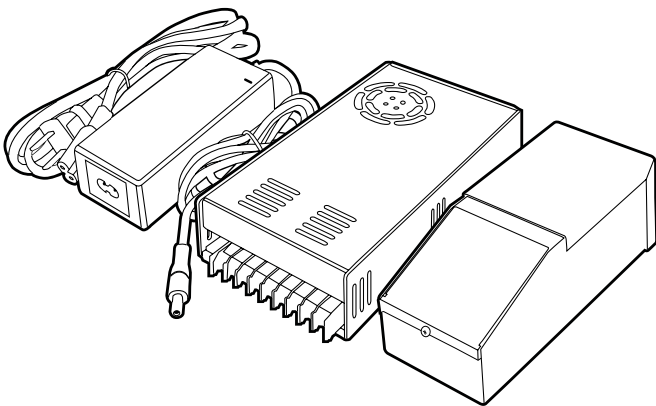
## Dimmers



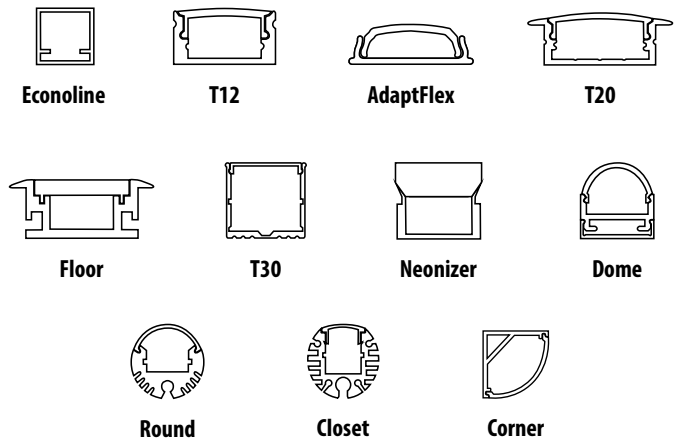
## LED Strip Connectors



## Power Supplies



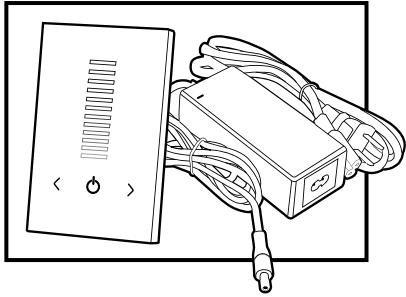
## LED Strip Channels



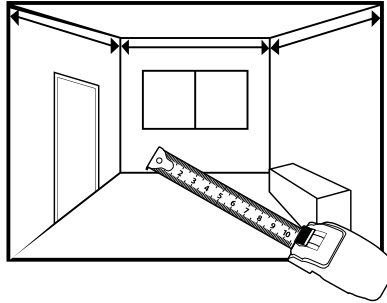


# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT INSTALLATION GUIDE

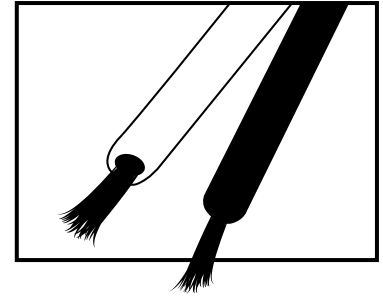
1. Determine where to install the Driver and optional Dimmer.



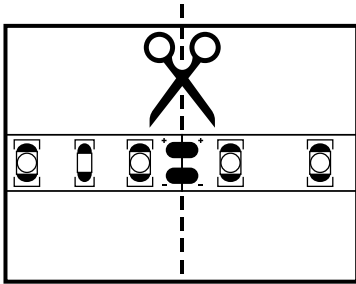
2. Determine the measurement of area where LED Strip Lights will be placed.



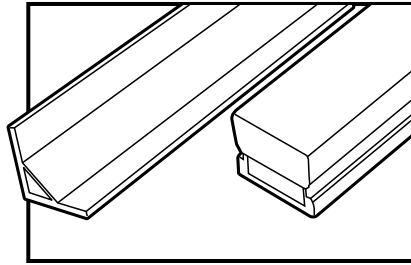
3. Determine how much wire needed (Driver to Dimmer, Dimmer to LED Strips).



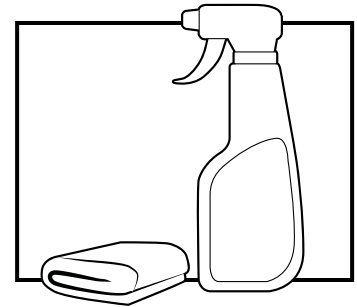
4. Cut LED Strip Lights (at cutting points) to fit or Join multiple Strips as recommended to cover installation area.



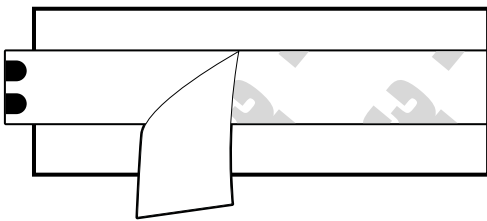
5. If using Channels, cut or extend them to fit size of the installation area



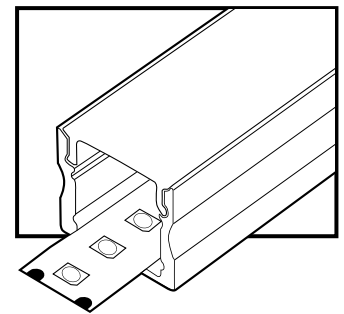
6. Thoroughly clean the surface where the LED Strip will be mounted.



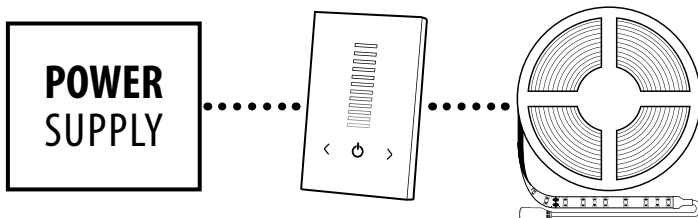
7. A. Peel the 3M Tape cover from the back of the LED Strips and mount it on surface.



B. If using Channels, mount the LED Strip in the Channel and mount it to the desired surface.



8. Complete the connection/wiring between the Power Supply, optional dimmer and LED Strips.

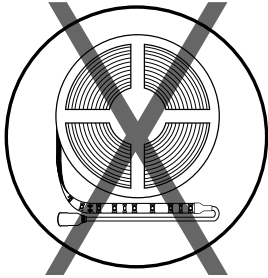


9. Power up and enjoy!

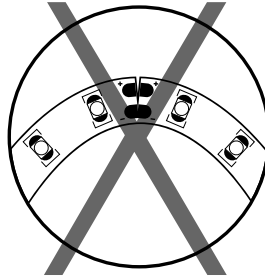
**Note:** If you have questions and concerns regarding the installation process. Please feel free to contact us at 425.582.7533. We will gladly assist you.

# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT WARNINGS

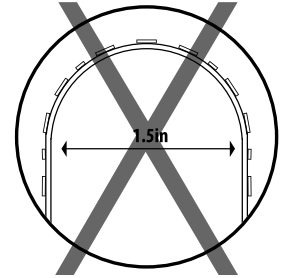
**Do not** power LED Strip still coiled in spool.



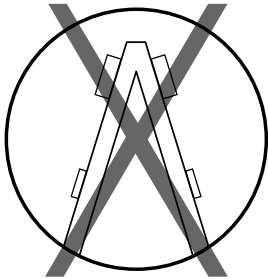
**Do not** bend LED Strip sideways.



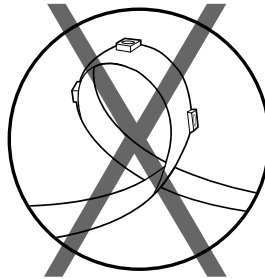
**Do not** bend LED strips to a diameter less than 1.5 inches.



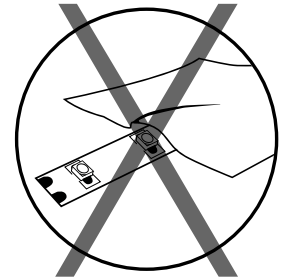
**Do not** fold or crease LED Strip.



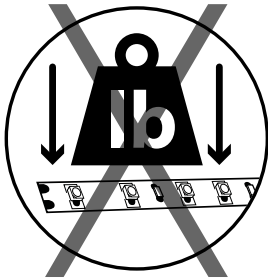
**Do not** twist LED Strip.



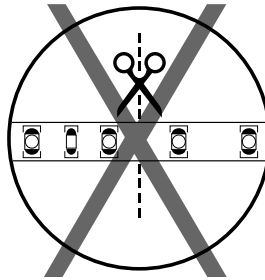
**Do not** cover LED Strip with anything other than LED Channel Diffusers.



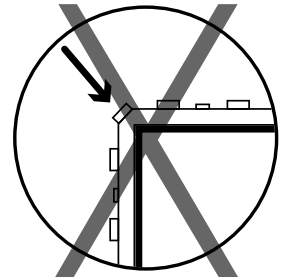
**Do not** put direct excessive pressure on the LED surface.



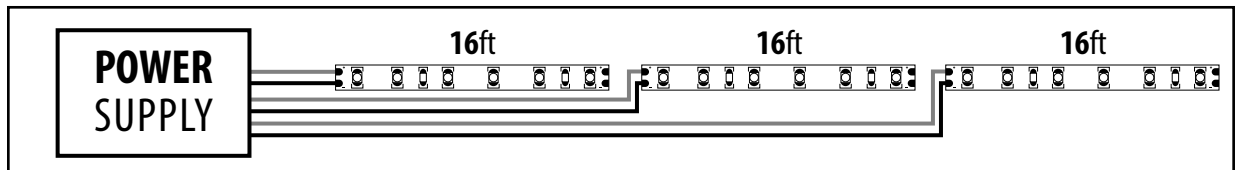
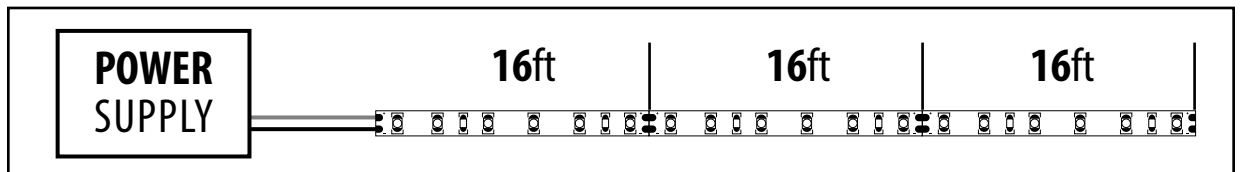
**Do not** cut LED Strips except at designated cutting points.



**Do not** position LED at an angled surface where it is pressed.



**Do not** connect or interconnect more than 16 feet (5 meters) of LED Strip to one Power Feed.



# 2835 ULTRA HIGH CRI 38W LED STRIP LIGHT SAFETY & WARRANTY

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## Safety / Disclosures

1. Please follow the included installation guide for proper installation procedure (See pg. 9).
2. Install in accordance with your national or local electrical code regulations.
3. Not suitable for wet locations.
4. Do not expose LED chips to direct sunlight continuously.
5. Do not expose to heat more than the specified Temperature ratings and do not install too close to stoves, fireplaces, and so on.
6. Only install with the required Driver/Power Supply – 24V DC Constant Voltage Driver.
7. Use a separate power feed for each recommended maximum run.
8. Only use cables that are certified for use with external connection of electrical equipment and rated for at least 80°C (176°F)
9. Do not mishandle product or modify beyond the guidelines given as this may void product Warranty.
10. Only use the recommended accessories and wires to connect between LED Strip Light, Driver, Controller, and other devices in between.
11. The output color of the LED Strips may have slight variation from that of the pictures on this document or website due to photo rendering limitations.
12. Design improvements and modification of the products could happen from to time and we reserve the right to do these improvements necessary without any prior notice.

## Warranty

The **2835** ULTRA High CRI 38W LED Strip Lights come with a 5-year limited warranty from the date it is shipped to the customer. This warranty covers the product as long as it is used for the designed purpose and normally operated unless otherwise stated.

Please visit [www.solidapollo.com/returns-amp-warranty.html](http://www.solidapollo.com/returns-amp-warranty.html) for the complete warranty details on the product. For any additional questions about product warranty, feel free to contact customer support at 425.582.7533.