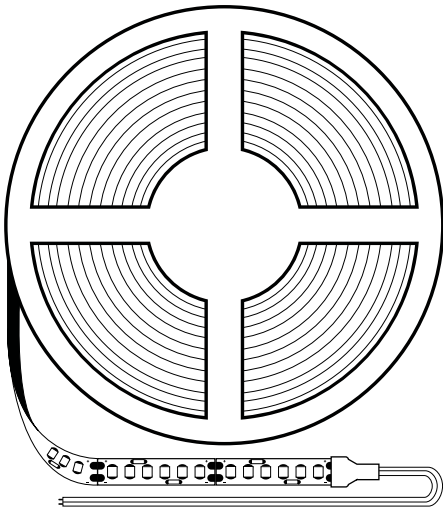


DATA SHEET

# 2835 ULTRA HIGH CRI 96W 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 96W. 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+.
- Clearly marked cut points every 1".
- 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).

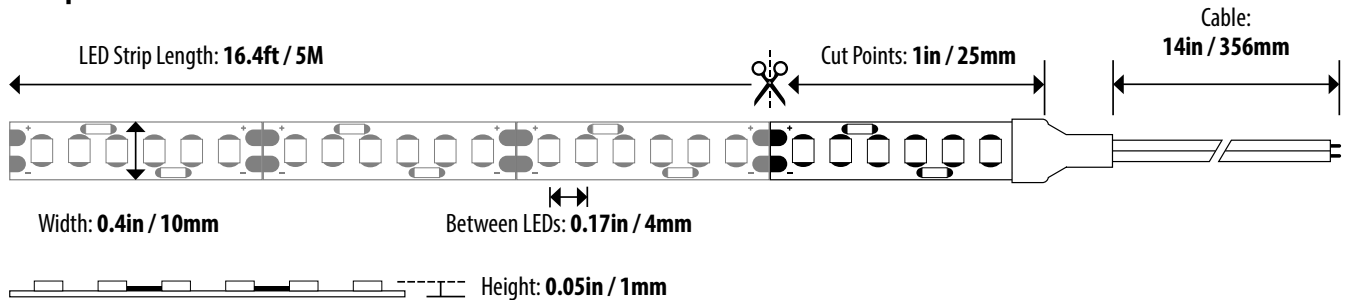
**1200 LEDs**  
**16.4ft**

**UP TO 590+ LUMENS / FT**

## Quick Spec.

- **Fully Dimmable:** Yes
- **Voltage:** 24V DC
- **Total Wattage:** 96W
- **Beam Angle:** 118°-119°
- **UL Rating #:** E493881
- **PCB Width:** 10mm / 0.4"
- **Dimensions:** 196.8" x 0.4" x 0.05"
- **Working Temperature:** -40° to 122°F

## 2835 LED Strip Illustration



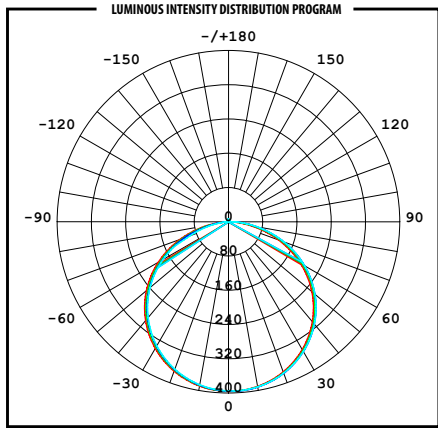
## Technical Information

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-2835-1200-24V	2400K	1200	453	96W	SMD 2835	95+	1in / 25mm
Super Warm White	SA-LS-ULTRA-SWW-2835-1200-24V	2700K	1200	485	96W	SMD 2835	96+	1in / 25mm
Warm White	SA-LS-ULTRA-WW-2835-1200-24V	3000K	1200	493	96W	SMD 2835	97+	1in / 25mm
Neutral Warm White	SA-LS-ULTRA-NWW-2835-1200-24V	3500K	1200	510	96W	SMD 2835	97+	1in / 25mm
Daylight White	SA-LS-ULTRA-DLW-2835-1200-24V	4000K	1200	548	96W	SMD 2835	96+	1in / 25mm
Natural White	SA-LS-ULTRA-NW-2835-1200-24V	5000K	1200	559	96W	SMD 2835	96+	1in / 25mm
White	SA-LS-ULTRA-W-2835-1200-24V	6000K	1200	596	96W	SMD 2835	96+	1in / 25mm

# 2835 ULTRA HIGH CRI 96W LED STRIP LIGHT PHOTOMETRICS

## Candlelight Warm White (2400K)

SKU: SA-LS-ULTRA-CLWW-2835-1200-24V

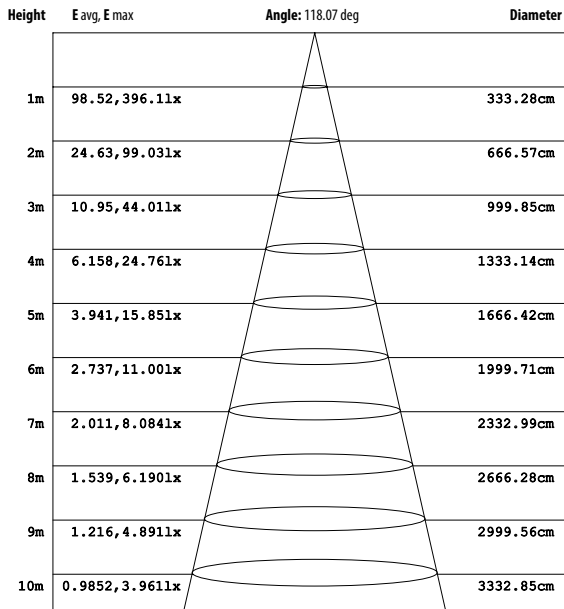


AVERAGE BEAM ANGLE (50%): **118.2 DEG**

UNIT: cd

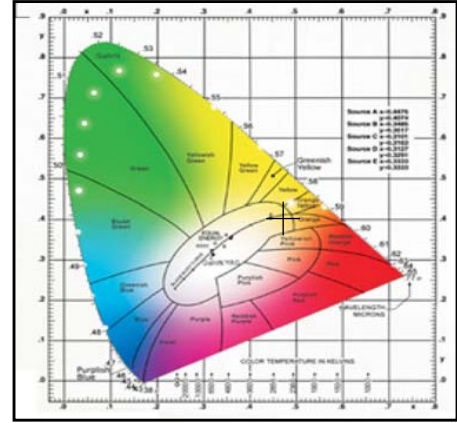
- C0 / 180, 118.2
- C60 / 240, 118.3
- C30 / 210, 118.3
- C90 / 270, 118.2

DEG.	Luminous Intensity: cd										DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g		
10	390.8	392.2	391.9	391.5	389.7	387.8	386.9	388.2	0-10		
20	373.7	376.6	376.7	375.4	371.6	368.0	366.7	368.9	10-20		
30	345.1	349.7	350.0	347.8	342.0	336.9	335.1	338.1	20-30		
40	305.3	311.6	312.3	309.3	301.5	294.8	292.7	296.2	30-40		
50	255.0	262.8	264.0	260.1	250.4	242.4	239.8	243.8	40-50		
60	194.6	204.3	205.6	201.2	189.9	180.4	177.6	182.0	50-60		
70	126.0	137.1	139.0	133.9	121.3	111.2	96.34	112.2	60-70		
80	55.66	66.81	68.77	63.68	51.63	38.02	35.37	36.42	70-80		
90	5.214	14.29	14.76	11.03	3.912	4.550	1.931	3.937	80-90		
100	1.634	2.265	3.093	1.372	1.397	1.412	1.479	1.593	90-100		
110	2.562	2.629	2.405	2.572	2.210	2.168	2.243	2.151	100-110		
120	3.457	3.631	3.662	3.491	2.999	2.891	2.941	2.866	110-120		
130	4.123	4.222	4.755	4.058	3.697	3.581	3.599	3.540	120-130		
140	4.460	4.666	5.371	4.584	4.436	4.476	4.182	4.188	130-140		
150	4.616	5.109	5.512	5.003	5.143	5.035	4.880	4.854	140-150		
160	4.969	5.446	5.495	5.323	5.709	5.495	5.718	5.544	150-160		
170	5.330	5.684	5.765	5.454	6.062	5.922	6.317	5.947	160-170		
180	6.045	6.103	6.522	6.128	6.037	6.152	6.547	6.070	170-180		



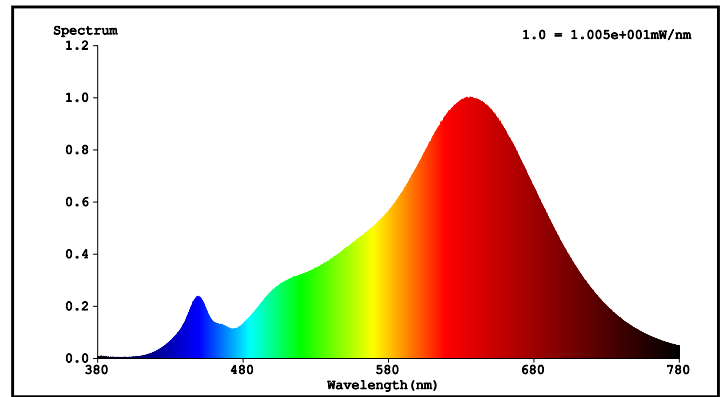
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

CIE1931 CHROMATICITY DIAGRAM

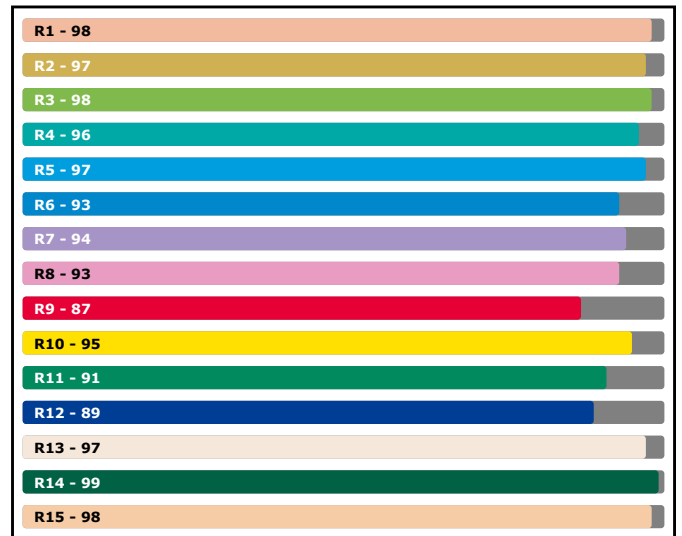


X = 0.4831 Y = 0.4043 CCT = 2359K

SPECTRAL DISTRIBUTION



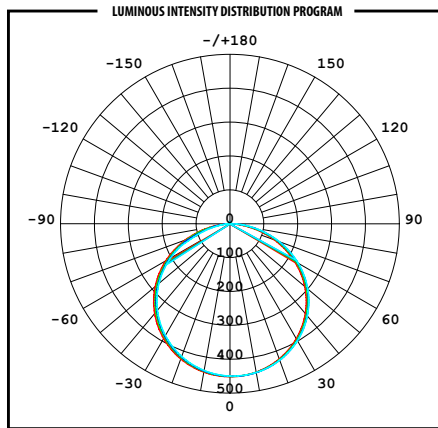
COLOR RENDERING INDEX (CRI) GRAPH



# 2835 ULTRA HIGH CRI 96W LED STRIP LIGHT PHOTOMETRICS

## Super Warm White (2700K)

SKU: SA-LS-ULTRA-SWW-2835-1200-24V

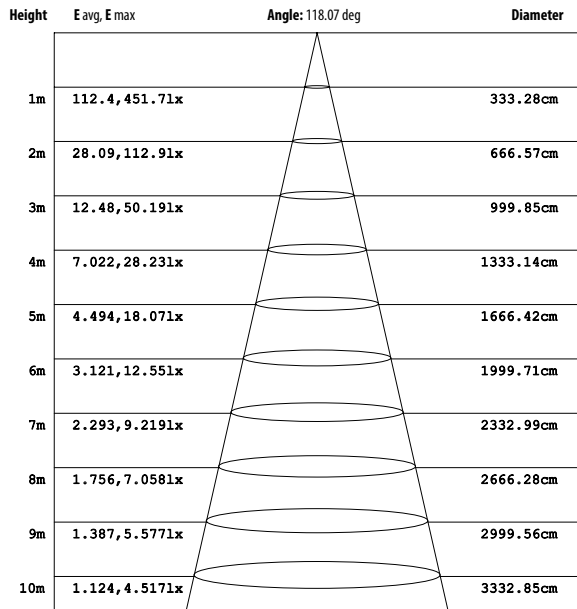


AVERAGE BEAM ANGLE (50%): **118.3 DEG**

UNIT: cd

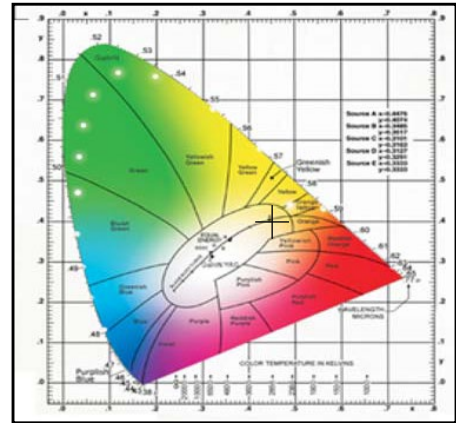
- C0 / 180, 118.3
- C60 / 240, 118.4
- C30 / 210, 118.4
- C90 / 270, 118.3

DEG.	Luminous Intensity: cd								DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g
10	445.1	446.5	446.3	445.8	445.0	442.0	440.2	441.2	0-10
20	425.2	428.7	429.1	428.0	424.9	419.9	417.4	418.9	10-20
30	392.4	397.8	399.0	397.1	391.9	385.0	381.8	383.9	20-30
40	346.9	354.2	355.8	353.4	346.2	337.8	333.9	336.5	30-40
50	289.1	298.3	300.4	297.5	288.4	278.5	274.3	277.1	40-50
60	220.1	230.9	233.4	229.8	219.3	208.5	204.1	206.9	50-60
70	141.5	153.6	156.3	152.6	141.2	129.7	112.5	127.8	60-70
80	61.80	73.52	76.17	72.08	61.74	48.10	41.30	43.44	70-80
90	5.589	14.65	15.46	12.68	5.325	6.828	5.736	5.830	80-90
100	1.937	1.873	1.635	1.611	1.553	1.676	1.726	1.585	90-100
110	2.996	3.057	2.783	2.942	2.465	2.422	2.531	2.480	100-110
120	4.023	4.223	4.229	4.017	3.368	3.268	3.344	3.268	110-120
130	4.747	4.855	5.502	4.641	4.165	4.049	4.099	4.049	120-130
140	5.092	5.348	6.184	5.225	5.003	5.091	4.757	4.788	130-140
150	5.281	5.832	6.292	5.693	5.808	5.716	5.554	5.552	140-150
160	5.626	6.186	6.267	6.070	6.473	6.226	6.515	6.349	150-160
170	6.070	6.448	6.562	6.210	6.883	6.719	7.196	6.833	160-170
180	6.842	6.990	7.401	6.974	6.867	6.982	7.458	6.965	170-180



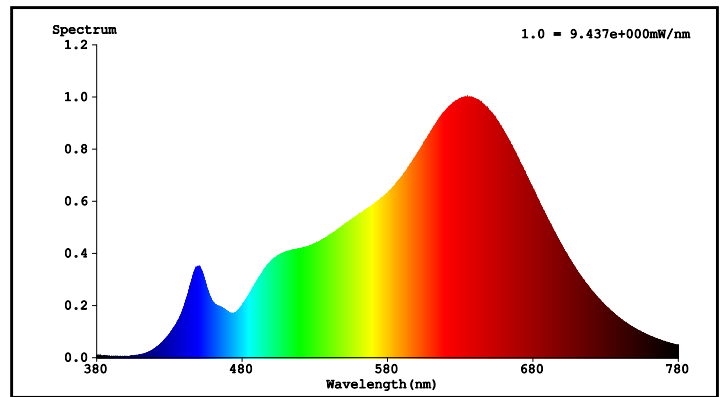
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

CIE1931 CHROMATICITY DIAGRAM

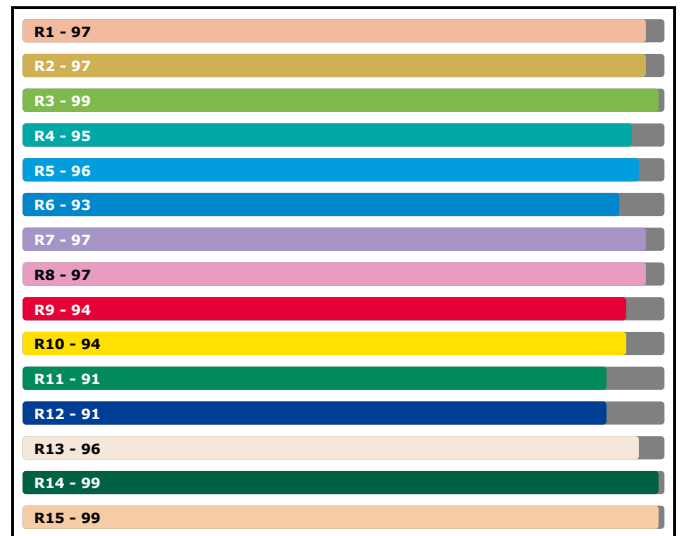


X = 0.4540 Y = 0.4022 CCT = 2717K

SPECTRAL DISTRIBUTION



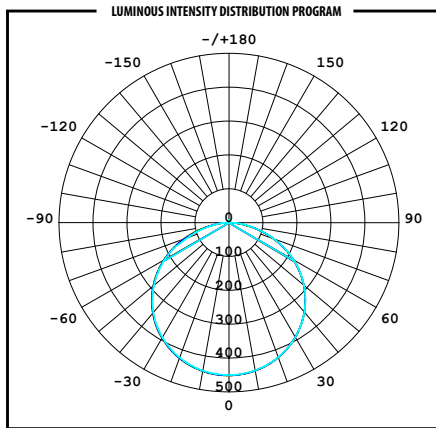
COLOR RENDERING INDEX (CRI) GRAPH



# 2835 ULTRA HIGH CRI 96W LED STRIP LIGHT PHOTOMETRICS

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

SKU: SA-LS-ULTRA-WW-2835-1200-24V & SA-LS-ULTRA-NWW-2835-1200-24V

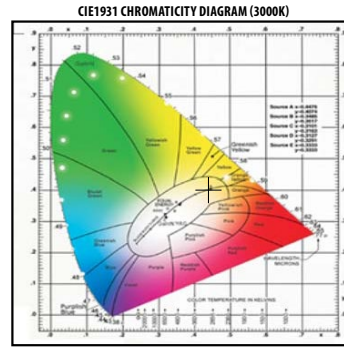


AVERAGE BEAM ANGLE (50%): 118.5 DEG

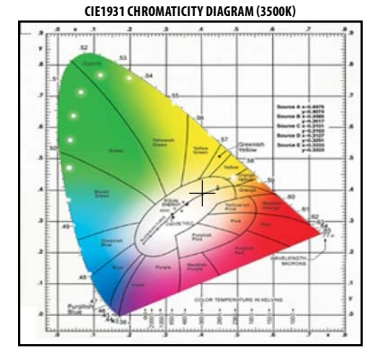
UNIT: cd

- CO / 180, 118.6
- C45 / 210, 118.6
- C90 / 240, 118.6
- C135 / 270, 118.5

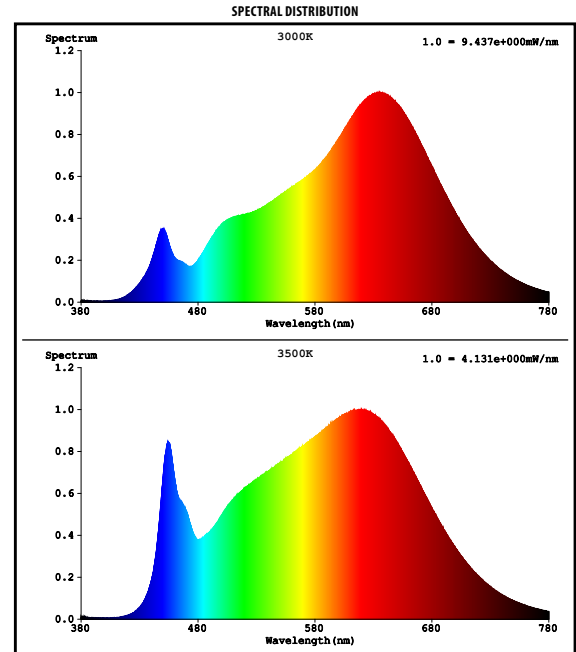
DEG.	Luminous Intensity: cd										DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g		
10	444.7	444.6	443.6	444.0	446.0	445.6	444.4	444.6	0-10		
20	424.4	424.3	423.6	424.0	426.9	426.3	424.8	425.2	10-20		
30	391.3	391.4	390.8	391.0	394.6	393.8	392.2	392.8	20-30		
40	345.6	346.1	345.6	345.3	349.6	348.3	346.8	347.7	30-40		
50	287.7	288.8	288.5	287.7	292.1	290.4	288.8	290.2	40-50		
60	218.5	220.4	220.2	218.6	222.8	220.9	219.4	221.3	50-60		
70	140.0	142.8	142.8	140.5	143.8	141.4	130.0	142.6	60-70		
80	60.16	63.38	64.56	61.87	62.74	51.34	57.12	51.77	70-80		
90	4.789	10.36	11.70	9.490	5.629	7.746	10.42	10.75	80-90		
100	1.937	1.915	1.930	1.775	1.529	1.511	1.635	1.494	90-100		
110	3.021	3.237	3.070	3.171	2.457	2.348	2.383	2.332	100-110		
120	4.048	4.387	4.491	4.231	3.377	3.195	3.204	3.153	110-120		
130	4.797	5.027	5.740	4.830	4.206	4.024	3.985	3.917	120-130		
140	5.142	5.488	6.422	5.397	5.069	5.042	4.666	4.657	130-140		
150	5.347	5.988	6.465	5.840	5.890	5.782	5.480	5.437	140-150		
160	5.675	6.341	6.407	6.193	6.572	6.291	6.466	6.266	150-160		
170	6.143	6.580	6.669	6.292	6.965	6.817	7.188	6.719	160-170		
180	6.982	7.080	7.508	6.941	6.965	7.072	7.499	6.883	170-180		



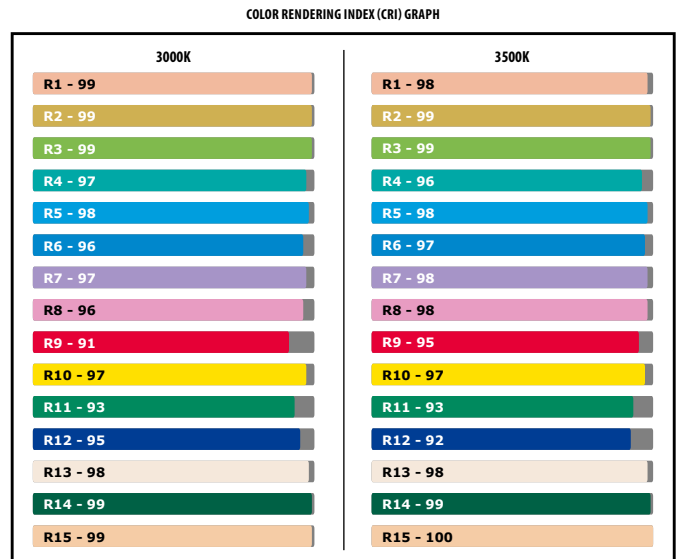
X = 0.4404 Y = 0.4026 CCT = 2930K



X = 0.4065 Y = 0.3916 CCT = 3482K



Height	E avg, E max	Angle: 118.32 deg	Diameter
1m	112.7, 451.91x		334.94cm
2m	28.19, 113.01x		669.88cm
3m	12.53, 50.211x		1004.82cm
4m	7.046, 28.251x		1339.76cm
5m	4.510, 18.081x		1674.70cm
6m	3.132, 12.551x		2009.64cm
7m	2.301, 9.2231x		2344.57cm
8m	1.762, 7.0611x		2679.51cm
9m	1.392, 5.5791x		3014.45cm
10m	1.127, 4.5191x		3349.39cm



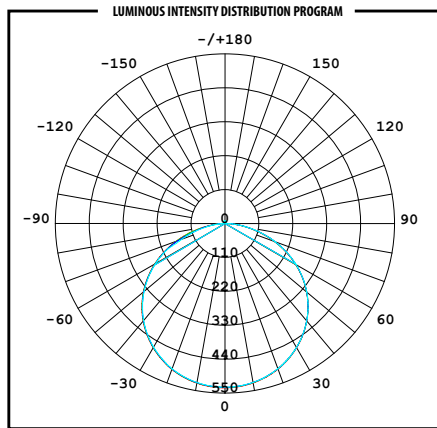
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.



# 2835 ULTRA HIGH CRI 96W LED STRIP LIGHT PHOTOMETRICS

## Natural White (5000K)

SKU: SA-LS-ULTRA-NW-2835-1200-24V



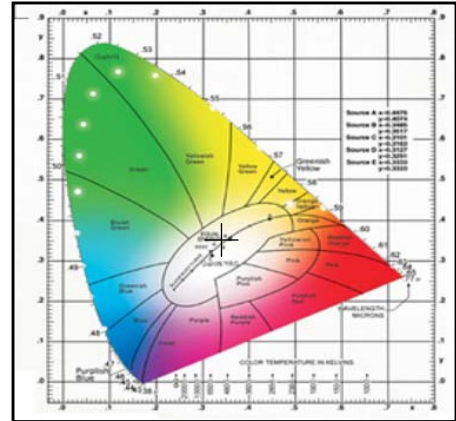
AVERAGE BEAM ANGLE (50%): 119.5 DEG

UNIT: cd

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

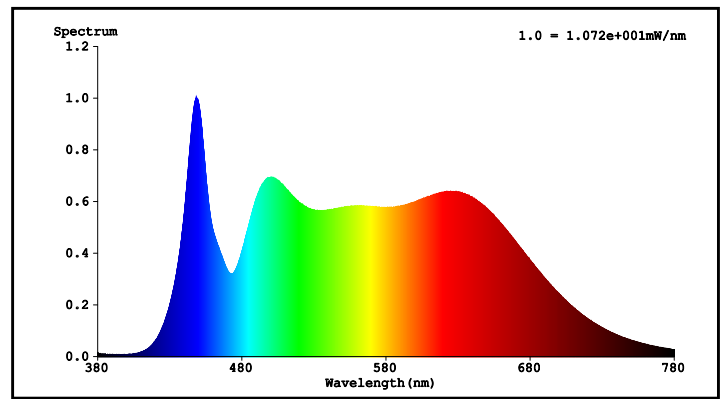
DEG.	Luminous Intensity: cd										DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g		
10	525.2	524.0	523.5	524.2	525.7	524.3	523.8	523.8	0-10		
20	502.6	501.9	501.3	502.2	503.6	502.1	501.6	501.3	10-20		
30	465.2	464.2	464.2	464.6	465.6	464.6	463.3	463.5	20-30		
40	412.9	412.7	412.6	413.0	413.3	411.8	410.7	410.7	30-40		
50	346.0	346.6	346.6	346.6	345.8	344.0	342.8	343.2	40-50		
60	264.4	266.5	266.4	266.0	264.1	260.9	260.7	260.7	50-60		
70	170.8	174.6	173.8	173.1	169.9	166.1	149.5	166.2	60-70		
80	75.06	79.24	78.12	76.64	73.53	60.36	60.00	60.84	70-80		
90	7.782	12.39	10.39	9.758	6.635	8.249	6.455	7.112	80-90		
100	2.290	2.170	2.019	2.096	1.857	1.823	1.825	1.814	90-100		
110	3.580	3.862	3.604	3.755	2.958	2.825	2.868	2.849	100-110		
120	4.845	5.241	5.370	5.011	4.026	3.819	3.845	3.802	110-120		
130	5.741	5.956	6.849	5.701	4.954	4.763	4.732	4.730	120-130		
140	6.136	6.506	7.597	6.375	5.948	5.962	5.537	5.585	130-140		
150	6.308	7.040	7.607	6.900	6.909	6.686	6.490	6.497	140-150		
160	6.686	7.426	7.499	7.253	7.664	7.343	7.632	7.441	150-160		
170	7.195	7.689	7.770	7.393	8.140	7.942	8.461	8.017	160-170		
180	8.165	8.313	8.764	8.296	8.173	8.239	8.814	8.288	170-180		

CIE1931 CHROMATICITY DIAGRAM



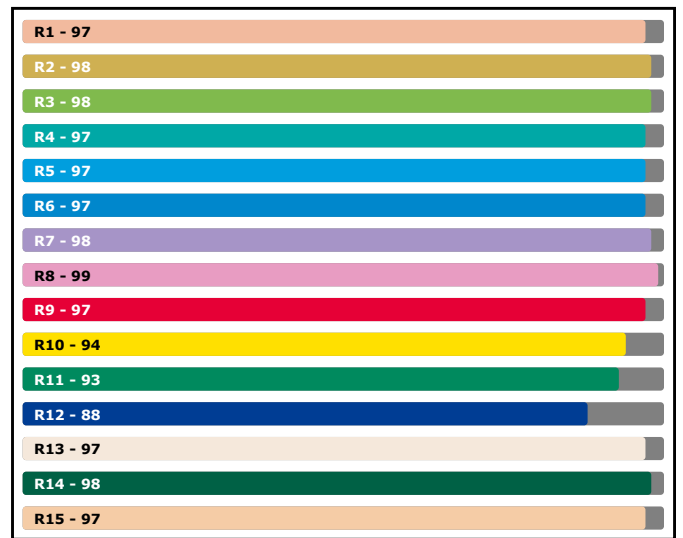
X = 0.3462 Y = 0.3535 CCT = 4965K

SPECTRAL DISTRIBUTION



Height	E avg, E max	Angle: 119.32 deg	Diameter
1m	133.9, 532.81x		341.68cm
2m	33.46, 133.21x		683.36cm
3m	14.87, 59.201x		1025.04cm
4m	8.366, 33.301x		1366.72cm
5m	5.354, 21.311x		1708.40cm
6m	3.718, 14.801x		2050.08cm
7m	2.732, 10.871x		2391.76cm
8m	2.091, 8.3261x		2733.44cm
9m	1.653, 6.5781x		3075.12cm
10m	1.339, 5.3281x		3416.80cm

COLOR RENDERING INDEX (CRI) GRAPH



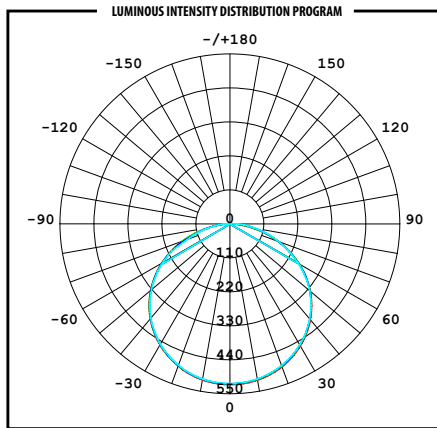
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.



# 2835 ULTRA HIGH CRI 96W LED STRIP LIGHT PHOTOMETRICS

## White (6000K)

SKU: SA-LS-ULTRA-W-2835-1200-24V



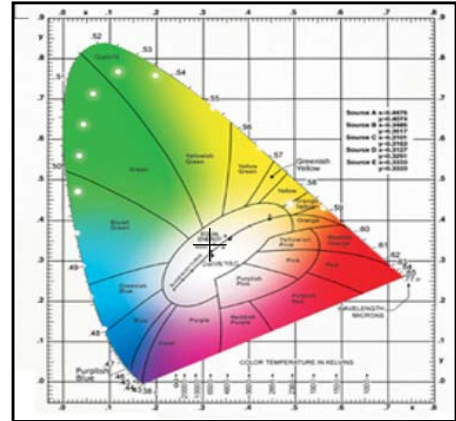
AVERAGE BEAM ANGLE (50%): 119.3 DEG

UNIT: cd

- C0 / 180, 119.4
- C60 / 240, 119.2
- C30 / 210, 119.6
- C90 / 270, 118.9

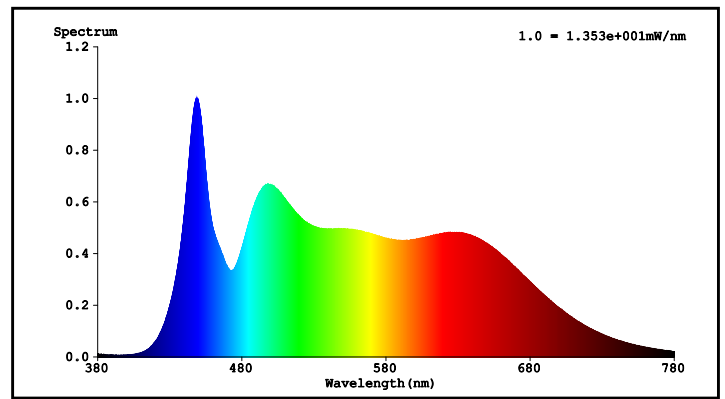
DEG.	Luminous Intensity: cd								DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g
10	514.1	511.7	510.0	510.8	513.0	511.1	509.9	510.6	0-10
20	492.8	489.7	488.5	488.6	490.0	489.0	487.3	488.4	10-20
30	456.6	453.8	452.5	452.7	453.1	452.1	450.5	451.5	20-30
40	405.6	403.7	402.3	402.3	401.7	400.5	398.8	399.5	30-40
50	340.1	339.0	337.9	337.7	335.7	334.3	332.3	332.8	40-50
60	259.9	260.7	256.0	259.5	256.1	253.6	252.1	251.5	50-60
70	168.0	169.2	170.0	167.0	164.7	162.7	147.0	159.3	60-70
80	73.62	82.87	86.67	78.03	71.74	66.64	66.95	61.01	70-80
90	7.175	20.09	24.56	17.48	7.109	19.26	21.22	12.10	80-90
100	2.282	3.162	3.825	2.104	1.849	2.394	4.020	1.856	90-100
110	3.530	3.788	3.596	3.689	2.942	2.792	2.884	2.825	100-110
120	4.722	5.085	5.271	4.921	4.001	3.753	3.779	3.769	110-120
130	5.577	5.824	6.668	5.586	4.913	4.665	4.642	4.657	120-130
140	5.963	6.366	7.473	6.235	5.874	5.831	5.422	5.511	130-140
150	6.177	6.908	7.475	6.752	6.794	6.538	6.351	6.382	140-150
160	6.554	7.270	7.360	7.130	7.517	7.195	7.451	7.318	150-160
170	7.088	7.524	7.605	7.245	8.001	7.786	8.272	7.868	160-170
180	8.017	8.050	8.551	8.091	8.025	8.041	8.567	8.025	170-180

CIE1931 CHROMATICITY DIAGRAM



X = 0.3212 Y = 0.3399 CCT = 6016K

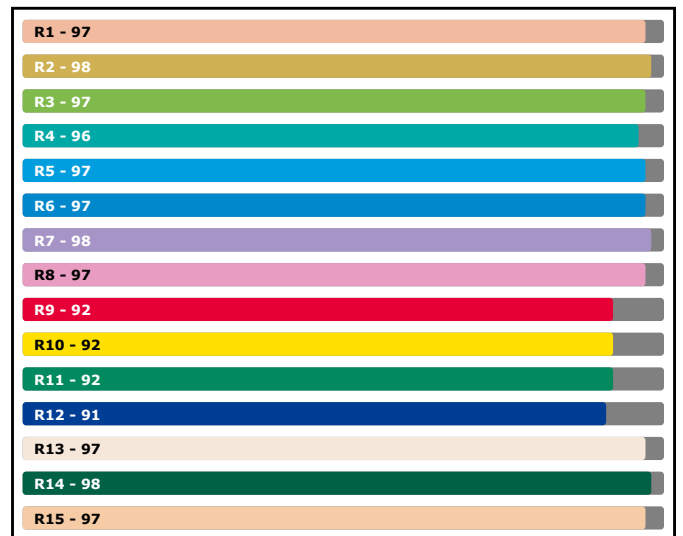
SPECTRAL DISTRIBUTION



Height E avg, E max Angle: 118.55 deg Diameter

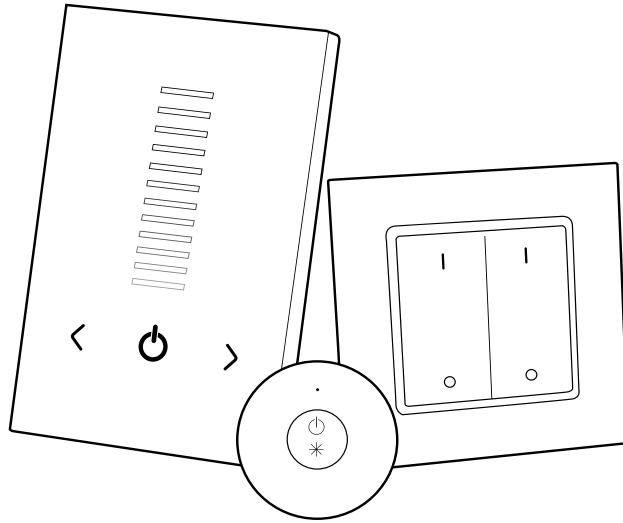
1m	130.4, 520.81x	336.47cm
2m	32.60, 130.21x	672.94cm
3m	14.49, 57.871x	1009.42cm
4m	8.149, 32.551x	1345.89cm
5m	5.216, 20.831x	1682.36cm
6m	3.622, 14.471x	2018.83cm
7m	2.661, 10.631x	2355.30cm
8m	2.037, 8.1381x	2691.78cm
9m	1.610, 6.4301x	3028.25cm
10m	1.304, 5.2081x	3364.72cm

COLOR RENDERING INDEX (CRI) GRAPH

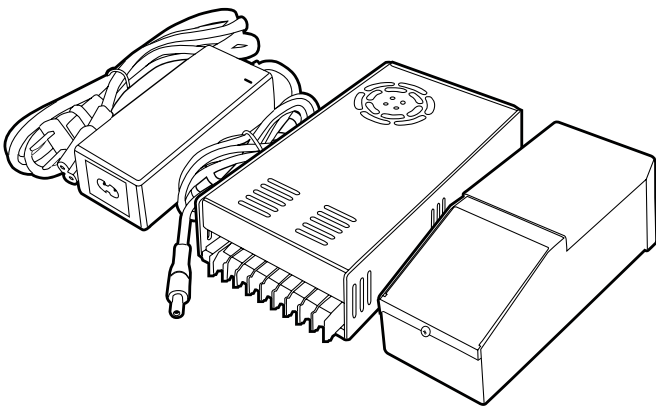


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

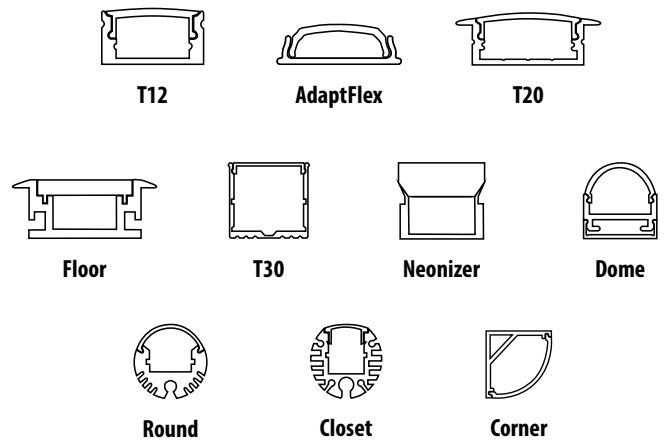
## Dimmers



## Power Supplies



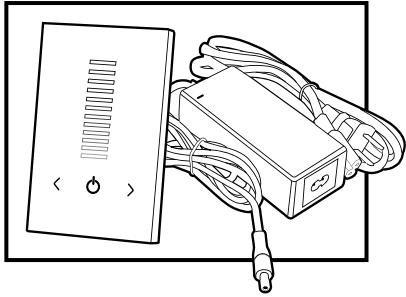
## LED Strip Channels



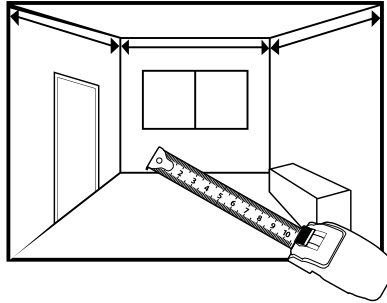


# 2835 ULTRA HIGH CRI 96W LED STRIP LIGHT INSTALLATION GUIDE

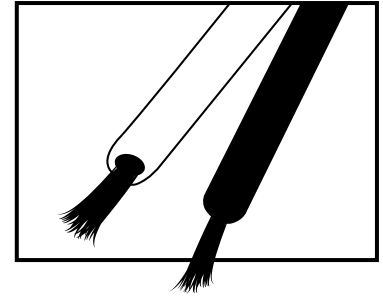
1. Determine where to install the Driver and optional Dimmer.



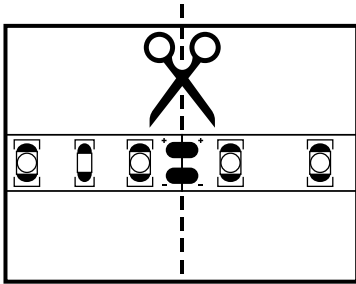
2. Determine the measurement of area where LED Strip Lights will be placed.



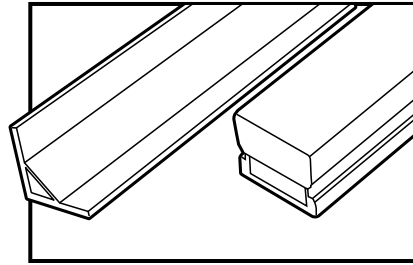
3. Determine how much wire needed (Driver to Dimmer, Dimmer to LED Strips).



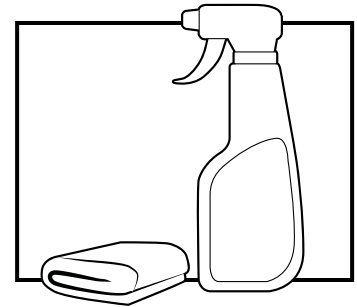
4. Cut LED Strip Lights (at cutting points) to fit or Join multiple Strips as recommended to cover installation area.



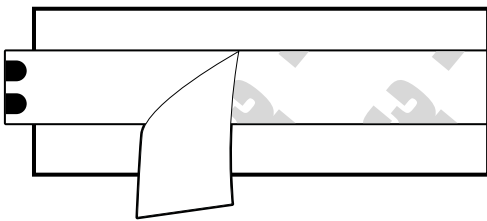
5. If using Channels, cut or extend them to fit size of the installation area



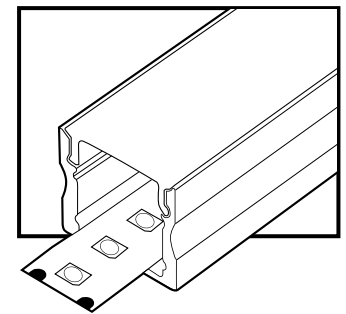
6. Thoroughly clean the surface where the LED Strip will be mounted.



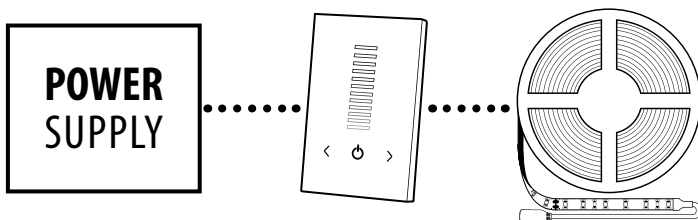
7. A. Peel the 3M Tape cover from the back of the LED Strips and mount it on surface.



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.

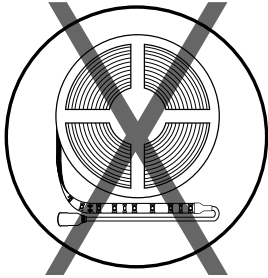


9. Power up and enjoy!

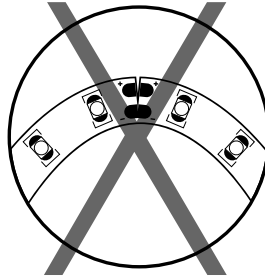
**Note:** If you have questions and concerns regarding the installation process. Please feel free to contact us at 425.582.7533. We will gladly assist you.

# 2835 ULTRA HIGH CRI 96W LED STRIP LIGHT WARNINGS

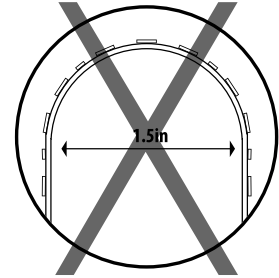
**Do not** power LED Strip still coiled in spool.



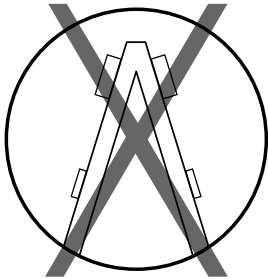
**Do not** bend LED Strip sideways.



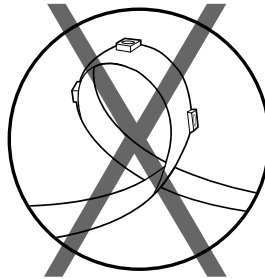
**Do not** bend LED strips to a diameter less than 1.5 inches.



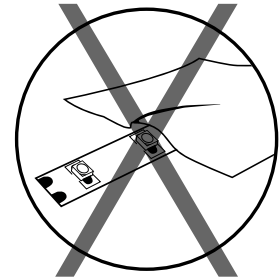
**Do not** fold or crease LED Strip.



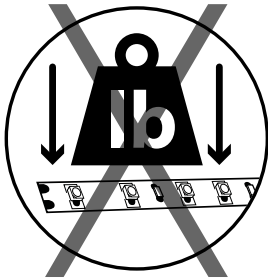
**Do not** twist LED Strip.



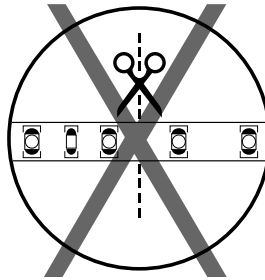
**Do not** cover LED Strip with anything other than LED Channel Diffusers.



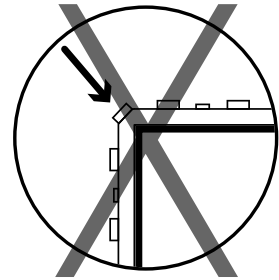
**Do not** put direct excessive pressure on the LED surface.



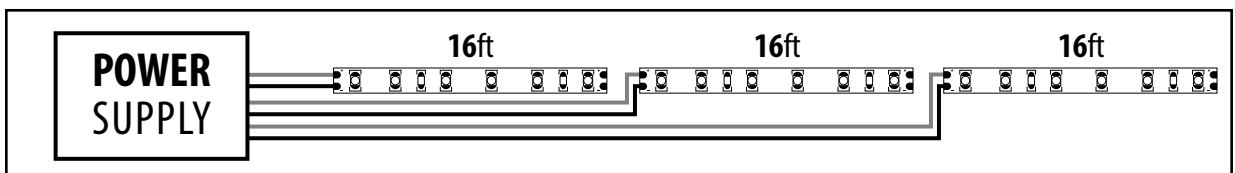
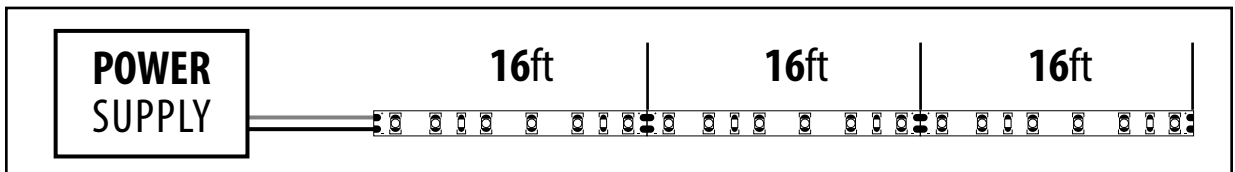
**Do not** cut LED Strips except at designated cutting points.



**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.



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# 2835 ULTRA HIGH CRI 96W LED STRIP LIGHT SAFETY & WARRANTY

## 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 96W 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.