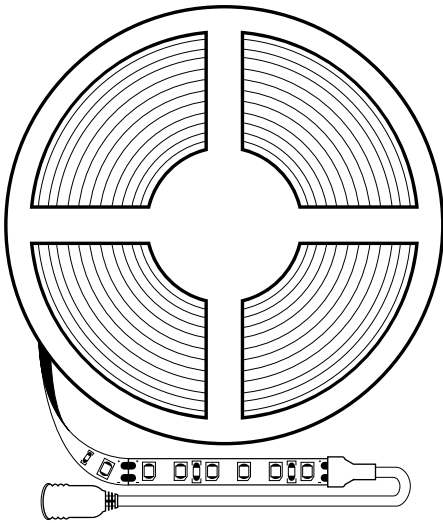


2835 ULTRA HIGH CRI 48W LED STRIP LIGHT



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 48W. 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 1.9".
- 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).

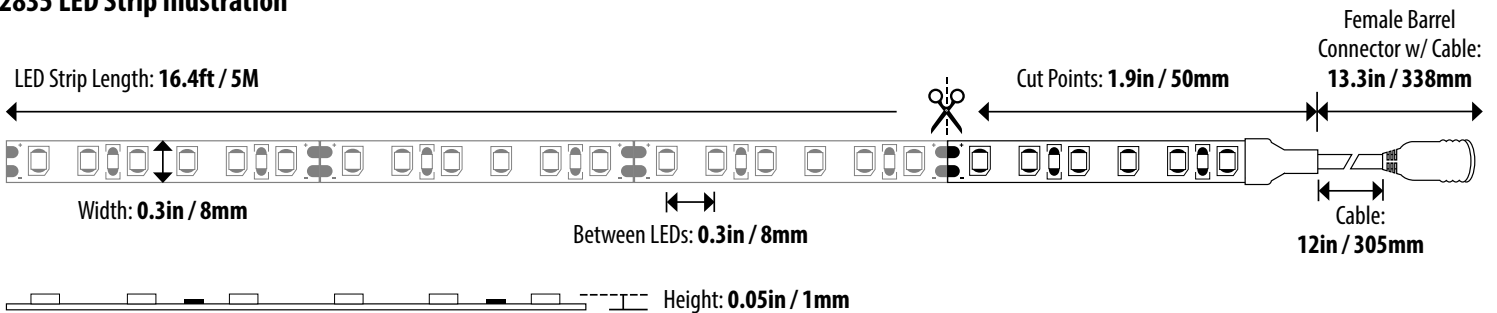
Quick Spec.

- **Fully Dimmable:** Yes
- **Voltage:** 24V DC
- **Total Wattage:** 48W
- **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

600 LEDs
16.4ft

UP TO 290+ LUMENS / FT

2835 LED Strip Illustration



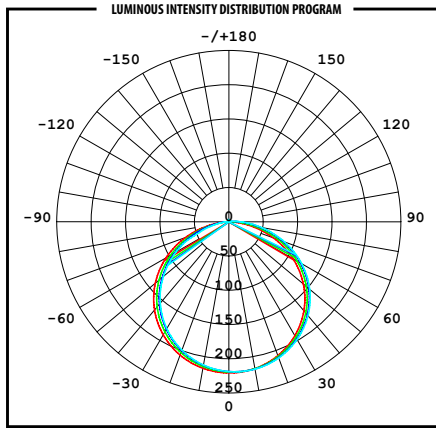
Technical Information

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-2835-600-24V	2400K	600	226	48W	SMD 2835	95+	1.9in / 50mm
Super Warm White	SA-LS-ULTRA-SWW-2835-600-24V	2700K	600	243	48W	SMD 2835	96+	1.9in / 50mm
Warm White	SA-LS-ULTRA-WW-2835-600-24V	3000K	600	247	48W	SMD 2835	97+	1.9in / 50mm
Neutral Warm White	SA-LS-ULTRA-NWW-2835-600-24V	3500K	600	262	48W	SMD 2835	97+	1.9in / 50mm
Daylight White	SA-LS-ULTRA-DLW-2835-600-24V	4000K	600	274	48W	SMD 2835	96+	1.9in / 50mm
Natural White	SA-LS-ULTRA-NW-2835-600-24V	5000K	600	280	48W	SMD 2835	96+	1.9in / 50mm
White	SA-LS-ULTRA-W-2835-600-24V	6000K	600	298	48W	SMD 2835	96+	1.9in / 50mm

2835 ULTRA HIGH CRI 48W LED STRIP LIGHT PHOTOMETRICS

Candlelight Warm White (2400K)

SKU: SA-LS-ULTRA-CLWW-2835-600-24V

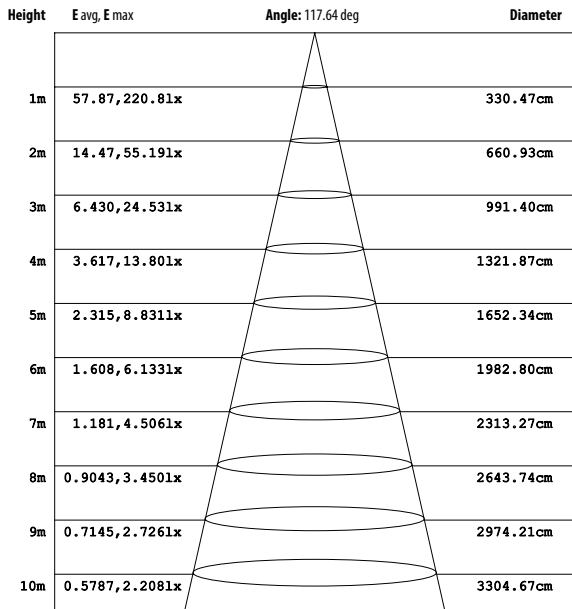


AVERAGE BEAM ANGLE (50%): **118.1 DEG**

UNIT: cd

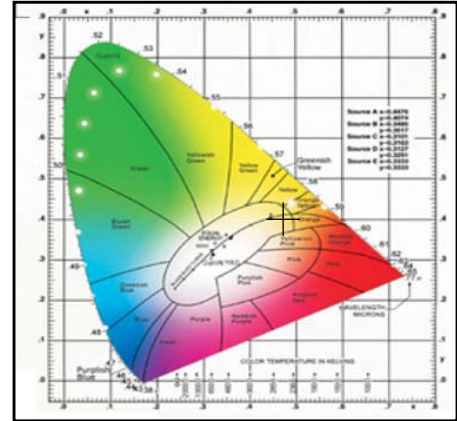
- C0 / 180, 118.1
- C90 / 270, 118.0
- C30 / 210, 118.2
- C60 / 240, 118.1

DEG.	Luminous Intensity: cd									DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g	
10	217.8	218.2	218.6	217.6	217.3	213.6	212.5	213.3	0-10	
20	208.1	210.7	211.8	209.9	207.3	201.5	199.6	201.4	10-20	
30	192.2	196.7	198.5	195.8	190.8	183.3	180.5	183.2	20-30	
40	169.9	176.6	179.0	175.5	168.3	158.9	155.4	158.9	30-40	
50	141.7	150.4	153.5	149.3	139.9	128.8	124.6	128.9	40-50	
60	108.0	118.6	122.4	117.3	106.0	93.76	89.34	93.90	50-60	
70	69.66	82.05	86.52	80.71	67.54	55.94	46.61	55.65	60-70	
80	30.69	43.96	49.08	42.24	28.77	19.31	17.87	18.97	70-80	
90	2.789	14.45	19.01	12.48	2.441	3.803	3.231	3.103	80-90	
100	0.8782	2.959	6.144	0.7232	0.7808	0.8953	0.9694	0.8460	90-100	
110	1.412	1.380	1.597	1.315	1.233	1.232	1.356	1.207	100-110	
120	1.897	1.914	1.847	1.832	1.676	1.634	1.733	1.602	110-120	
130	2.259	2.276	2.455	2.177	2.054	2.004	2.079	1.963	120-130	
140	2.456	2.547	2.817	2.473	2.481	2.497	2.383	2.316	130-140	
150	2.538	2.809	2.916	2.686	2.859	2.784	2.760	2.653	140-150	
160	2.727	2.998	2.916	2.916	3.179	3.023	3.204	3.023	150-160	
170	2.924	3.130	3.121	2.990	3.343	3.302	3.508	3.228	160-170	
180	3.310	3.360	3.548	3.318	3.343	3.335	3.565	3.277	170-180	



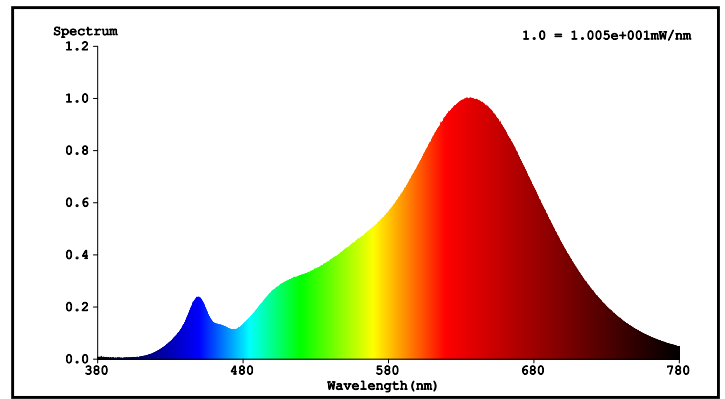
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

CIE1931 CHROMATICITY DIAGRAM

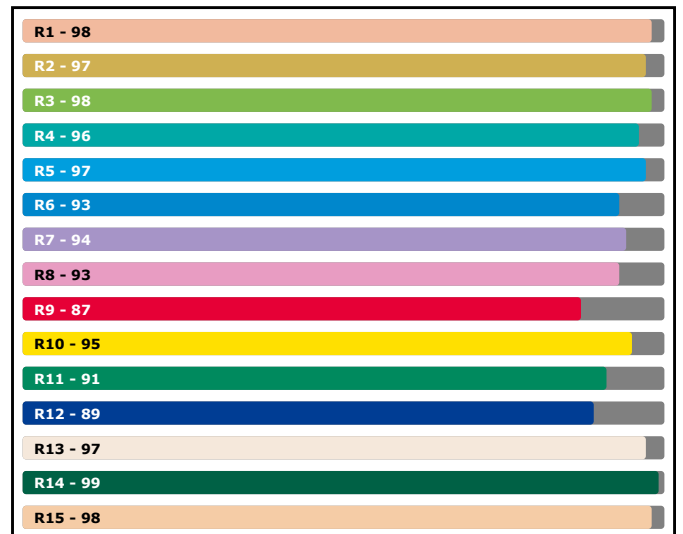


X = 0.4831 Y = 0.4043 CCT = 2359K

SPECTRAL DISTRIBUTION



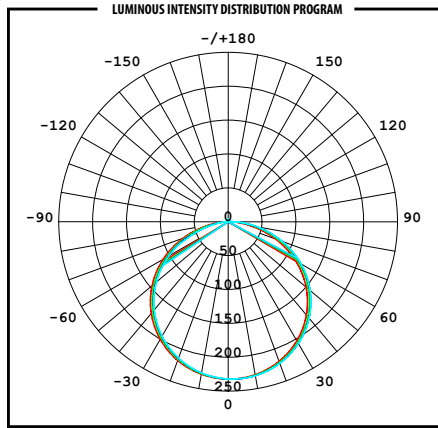
COLOR RENDERING INDEX (CRI) GRAPH



2835 ULTRA HIGH CRI 48W LED STRIP LIGHT PHOTOMETRICS

Super Warm White (2700K)

SKU: SA-LS-ULTRA-SWW-2835-600-24V



AVERAGE BEAM ANGLE (50%): 118.4 DEG

UNIT: cd

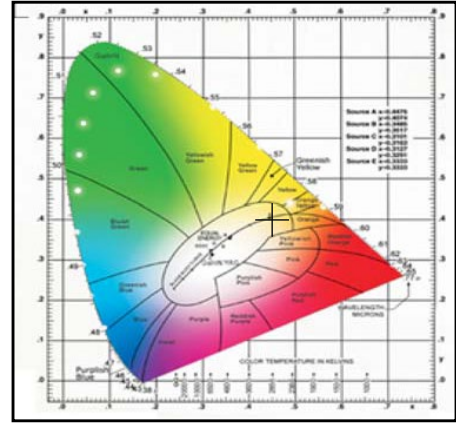
- C0 / 180, 118.3
- C45 / 118.5
- C90 / 210, 118.5
- C135 / 270, 118.3

DEG.	Luminous Intensity: cd								DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g
10	229.3	230.6	230.7	230.0	228.5	227.2	226.6	227.3	0-10
20	219.4	222.1	222.4	221.1	217.9	215.2	214.3	215.6	10-20
30	202.9	206.8	207.5	205.3	200.5	196.6	195.3	197.4	20-30
40	179.7	185.0	185.8	183.1	176.7	171.5	169.9	172.5	30-40
50	150.3	156.8	157.9	154.6	146.7	140.4	138.4	141.6	40-50
60	115.0	122.7	124.2	120.1	111.0	103.7	101.4	105.0	50-60
70	74.77	83.44	85.17	80.58	70.72	62.96	56.75	63.93	60-70
80	33.60	42.27	44.06	39.25	30.06	22.46	20.62	20.71	70-80
90	3.613	10.13	11.61	8.101	2.164	2.637	2.334	2.791	80-90
100	0.9113	1.346	2.180	0.8054	0.8301	0.8542	0.9450	0.8048	90-100
110	1.462	1.512	1.355	1.479	1.315	1.281	1.372	1.273	100-110
120	2.004	2.103	2.085	2.037	1.775	1.708	1.775	1.675	110-120
130	2.390	2.448	2.734	2.374	2.177	2.086	2.152	2.102	120-130
140	2.612	2.727	3.088	2.678	2.613	2.603	2.489	2.439	130-140
150	2.678	2.982	3.187	2.924	3.023	2.924	2.892	2.817	140-150
160	2.891	3.187	3.187	3.130	3.352	3.195	3.368	3.244	150-160
170	3.104	3.327	3.318	3.204	3.557	3.441	3.721	3.450	160-170
180	3.524	3.573	3.811	3.581	3.557	3.540	3.828	3.548	170-180

Height	E avg, E max	Angle: 118.31 deg	Diameter
1m	57.88, 232.41x		334.90cm
2m	14.47, 58.111x		669.79cm
3m	6.431, 25.831x		1004.69cm
4m	3.617, 14.531x		1339.59cm
5m	2.315, 9.2971x		1674.48cm
6m	1.608, 6.4561x		2009.38cm
7m	1.181, 4.7431x		2344.28cm
8m	0.9044, 3.6321x		2679.17cm
9m	0.7146, 2.8701x		3014.07cm
10m	0.5788, 2.3241x		3348.97cm

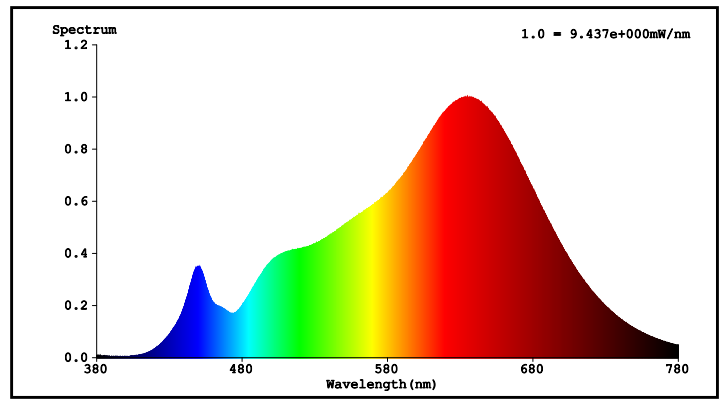
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

CIE1931 CHROMATICITY DIAGRAM

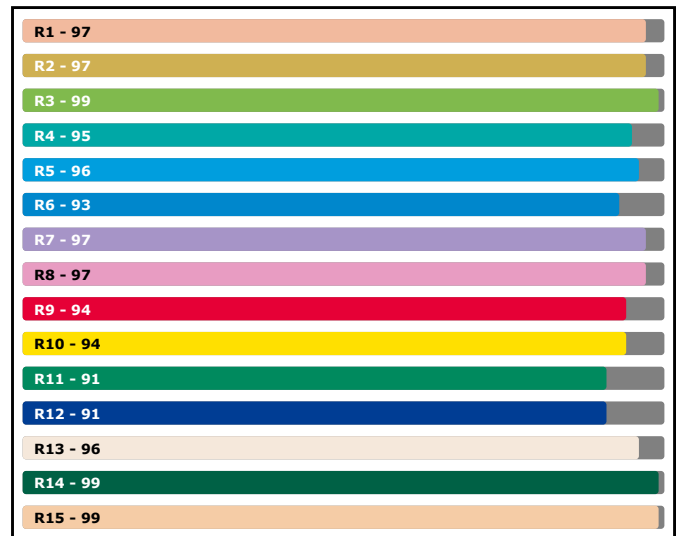


X = 0.4540 Y = 0.4022 CCT = 2717K

SPECTRAL DISTRIBUTION



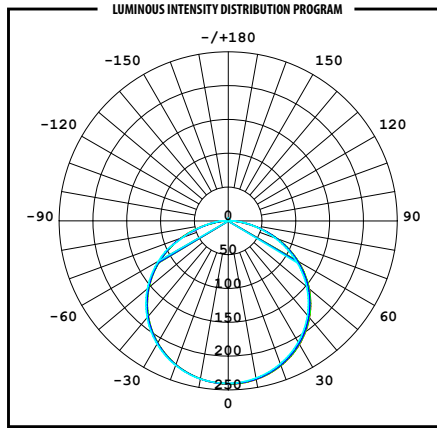
COLOR RENDERING INDEX (CRI) GRAPH



2835 ULTRA HIGH CRI 48W LED STRIP LIGHT PHOTOMETRICS

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

SKU: SA-LS-ULTRA-WW-2835-600-24V & SA-LS-ULTRA-NWW-2835-600-24V

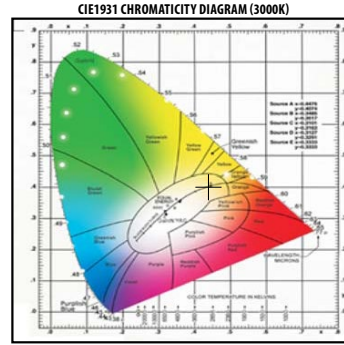


AVERAGE BEAM ANGLE (50%): 118.7 DEG

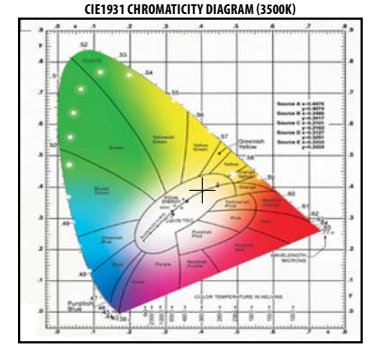
UNIT: cd

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

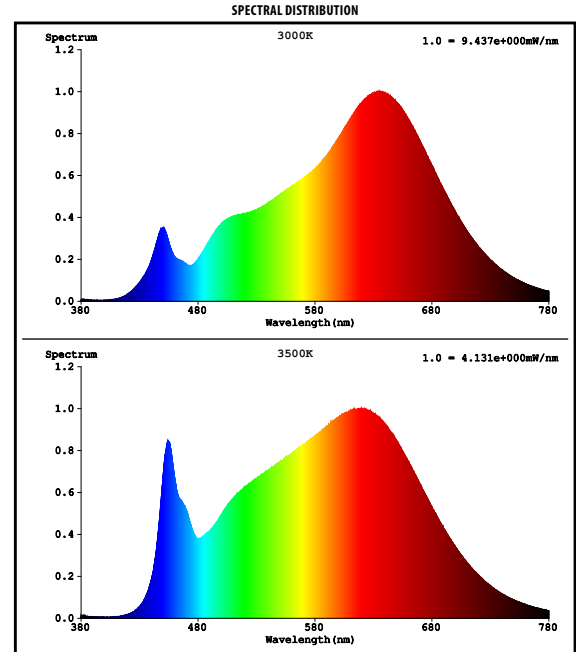
DEG.	Luminous Intensity: cd								DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g
10	238.2	237.8	236.3	236.2	237.3	237.3	237.5	237.8	0-10
20	228.0	227.7	225.1	225.0	226.5	226.4	227.6	228.0	10-20
30	211.0	210.5	207.3	206.9	208.7	208.7	210.6	211.3	20-30
40	187.0	186.7	182.7	182.3	184.4	184.2	186.9	187.7	30-40
50	156.5	156.3	151.9	151.2	153.4	153.3	156.4	157.4	40-50
60	119.6	119.9	115.1	114.3	116.7	116.1	120.0	120.9	50-60
70	77.53	78.44	74.02	73.05	74.94	74.25	72.20	79.19	60-70
80	34.36	36.36	35.04	32.83	32.33	27.81	33.24	30.98	70-80
90	3.227	7.470	9.016	6.977	2.834	5.663	10.82	9.164	80-90
100	0.9849	1.011	1.150	1.027	0.8630	1.019	1.525	0.9120	90-100
110	1.576	1.725	1.666	1.758	1.356	1.232	1.257	1.191	100-110
120	2.110	2.325	2.431	2.317	1.840	1.683	1.693	1.626	110-120
130	2.489	2.662	3.055	2.621	2.259	2.103	2.103	2.045	120-130
140	2.686	2.916	3.409	2.908	2.719	2.653	2.473	2.464	130-140
150	2.784	3.171	3.466	3.130	3.130	3.014	2.917	2.883	140-150
160	2.981	3.352	3.417	3.286	3.475	3.285	3.442	3.294	150-160
170	3.203	3.475	3.515	3.352	3.688	3.548	3.828	3.557	160-170
180	3.672	3.704	3.934	3.713	3.696	3.696	3.959	3.696	170-180



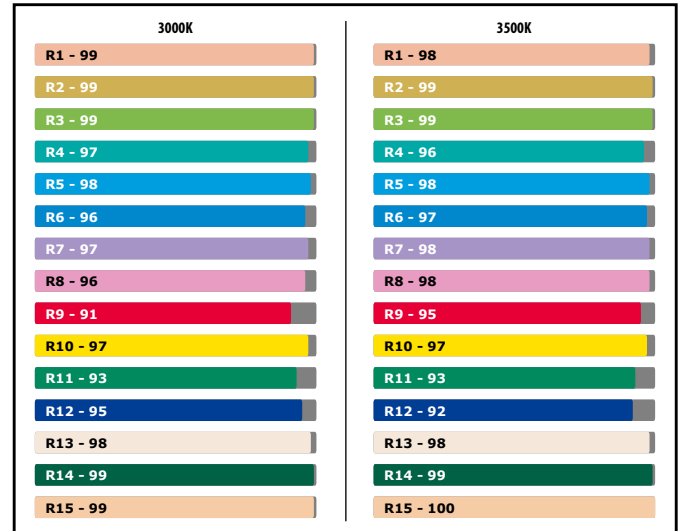
X = 0.4404 Y = 0.4026 CCT = 2930K



X = 0.4065 Y = 0.3916 CCT = 3482K



COLOR RENDERING INDEX (CRI) GRAPH



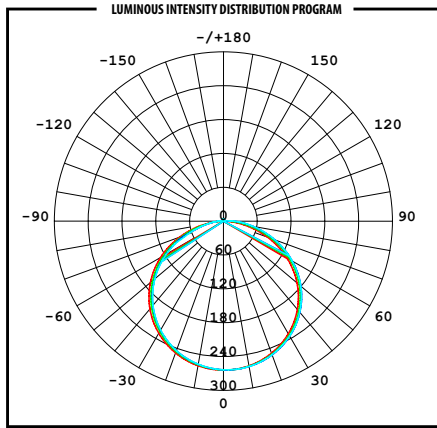
Height	E avg, E max	Angle: 118.41 deg	Diameter
1m	60.17, 241.21x		335.54cm
2m	15.04, 60.301x		671.08cm
3m	6.685, 26.801x		1006.61cm
4m	3.760, 15.081x		1342.15cm
5m	2.407, 9.6491x		1677.69cm
6m	1.671, 6.7011x		2013.23cm
7m	1.228, 4.9231x		2348.76cm
8m	0.9401, 3.7691x		2684.30cm
9m	0.7428, 2.9781x		3019.84cm
10m	0.6017, 2.4121x		3355.38cm

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

2835 ULTRA HIGH CRI 48W LED STRIP LIGHT PHOTOMETRICS

Daylight White (4000K)

SKU: SA-LS-ULTRA-DLW-2835-600-24V

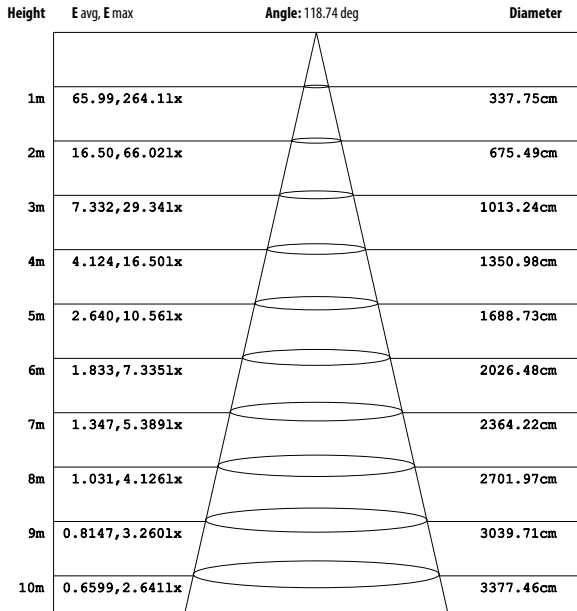


AVERAGE BEAM ANGLE (50%): 119.0 DEG

UNIT: cd

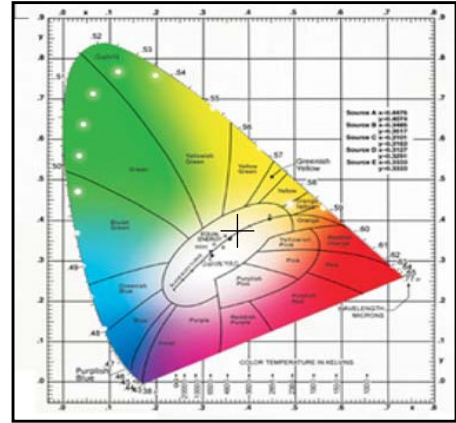
- C0 / 180, 118.9
- C60 / 240, 119.1
- C30 / 210, 119.1
- C90 / 270, 118.8

DEG.	Luminous Intensity: cd								DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g
10	260.5	261.7	261.6	260.9	260.2	258.2	257.7	258.2	0-10
20	249.2	252.1	252.1	250.8	248.7	245.1	244.2	245.4	10-20
30	230.5	235.0	235.2	233.1	229.6	224.4	223.2	225.1	20-30
40	204.2	210.5	210.7	208.2	203.2	196.4	194.8	197.2	30-40
50	170.7	178.6	179.1	175.8	169.4	161.3	159.2	162.2	40-50
60	130.2	139.9	140.7	136.7	129.0	119.9	117.5	120.5	50-60
70	83.94	95.73	97.47	92.04	83.12	74.11	67.05	74.03	60-70
80	36.95	50.79	54.40	46.78	36.32	27.63	28.86	27.22	70-80
90	4.154	16.04	18.89	12.75	3.031	7.290	9.190	6.525	80-90
100	1.116	2.680	4.920	1.150	0.9370	1.743	3.322	0.9692	90-100
110	1.725	1.767	1.626	1.742	1.479	1.454	1.569	1.429	100-110
120	2.356	2.448	2.439	2.374	2.013	1.938	2.021	1.954	110-120
130	2.760	2.818	3.153	2.736	2.473	2.390	2.440	2.366	120-130
140	2.981	3.138	3.564	3.097	2.958	2.981	2.834	2.784	130-140
150	3.072	3.425	3.680	3.360	3.426	3.335	3.286	3.236	140-150
160	3.277	3.647	3.680	3.557	3.812	3.663	3.836	3.672	150-160
170	3.548	3.803	3.803	3.623	4.000	3.918	4.231	3.934	160-170
180	4.058	4.099	4.329	4.058	4.000	4.074	4.345	4.041	170-180



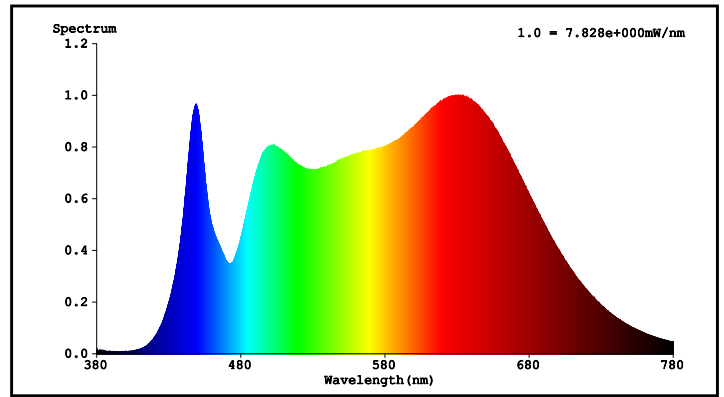
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

CIE1931 CHROMATICITY DIAGRAM

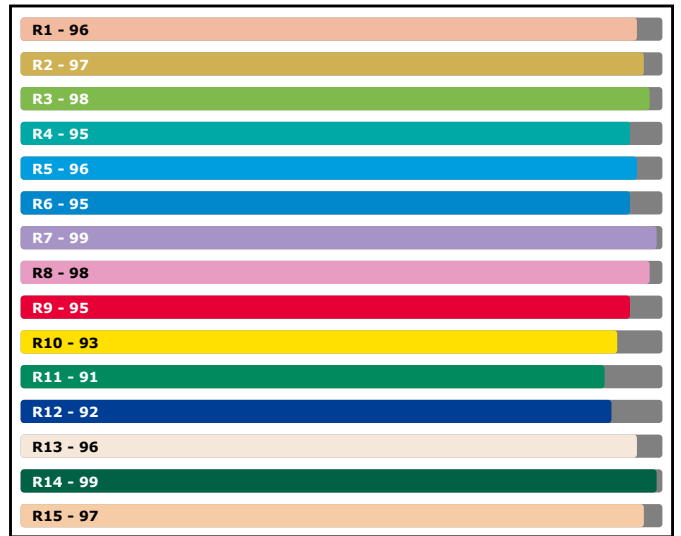


X = 0.3823 Y = 0.3781 CCT = 3960K

SPECTRAL DISTRIBUTION



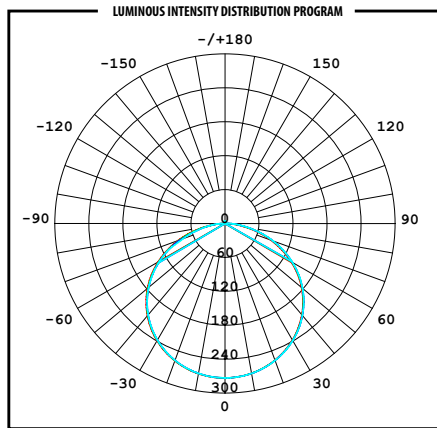
COLOR RENDERING INDEX (CRI) GRAPH



2835 ULTRA HIGH CRI 48W LED STRIP LIGHT PHOTOMETRICS

Natural White (5000K)

SKU: SA-LS-ULTRA-NW-2835-600-24V



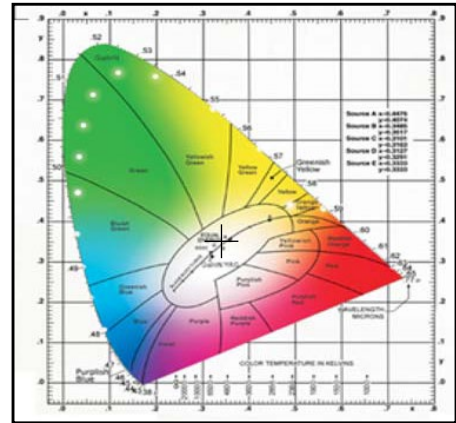
AVERAGE BEAM ANGLE (50%): 119.5 DEG

UNIT: cd

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

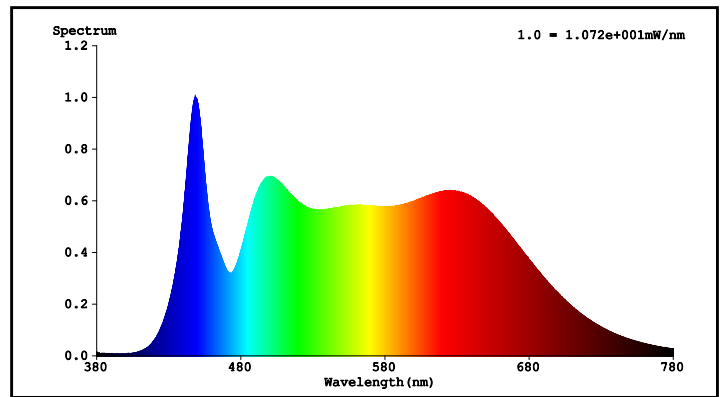
DEG.	Luminous Intensity: cd										DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g		
10	269.2	269.4	269.4	269.8	269.8	269.4	269.3	269.3	0-10		
20	257.4	258.1	258.0	258.7	258.7	257.8	257.8	257.5	10-20		
30	238.1	239.2	239.1	239.9	239.7	238.4	238.3	237.9	20-30		
40	211.0	212.8	212.6	213.5	213.0	211.1	211.1	210.6	30-40		
50	176.5	178.8	178.8	179.5	178.5	176.0	175.9	175.6	40-50		
60	134.6	137.8	137.6	138.2	136.8	133.5	133.5	133.2	50-60		
70	86.63	90.64	90.40	90.65	88.50	84.88	78.77	84.72	60-70		
80	37.55	42.22	42.34	42.03	39.16	30.36	34.77	30.25	70-80		
90	4.139	8.718	10.19	8.240	3.668	5.454	6.704	6.008	80-90		
100	1.182	1.494	1.934	1.060	0.9533	1.027	1.003	1.158	90-100		
110	1.839	1.988	1.839	1.914	1.520	1.437	1.504	1.454	100-110		
120	2.480	2.662	2.750	2.571	2.079	1.955	2.005	1.954	110-120		
130	2.924	3.048	3.457	2.933	2.571	2.447	2.473	2.415	120-130		
140	3.146	3.352	3.909	3.269	3.056	3.022	2.883	2.866	130-140		
150	3.228	3.639	3.935	3.557	3.565	3.417	3.360	3.334	140-150		
160	3.417	3.836	3.885	3.770	3.951	3.762	3.952	3.819	150-160		
170	3.696	3.976	3.975	3.844	4.214	4.058	4.370	4.107	160-170		
180	4.222	4.222	4.509	4.288	4.230	4.230	4.501	4.214	170-180		

CIE1931 CHROMATICITY DIAGRAM



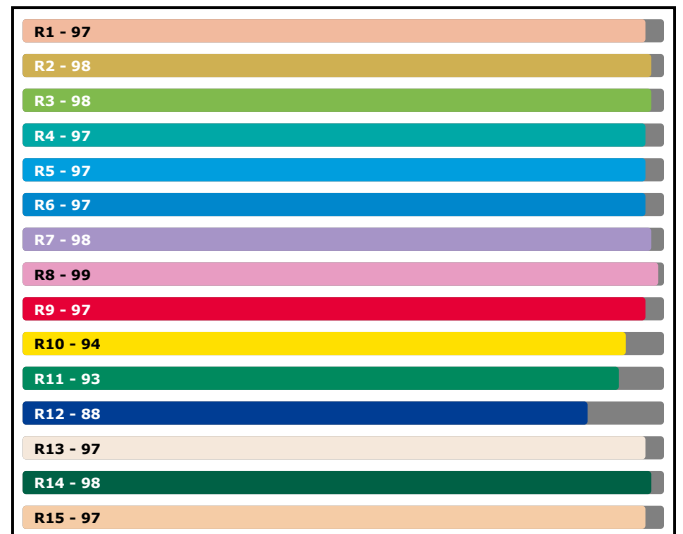
X = 0.3462 Y = 0.3535 CCT = 4965K

SPECTRAL DISTRIBUTION



Height	E avg, E max	Angle: 119.52 deg	Diameter
1m	68.84, 273.41x		343.05cm
2m	17.21, 68.351x		686.10cm
3m	7.649, 30.381x		1029.16cm
4m	4.302, 17.091x		1372.21cm
5m	2.754, 10.941x		1715.26cm
6m	1.912, 7.5941x		2058.31cm
7m	1.405, 5.5791x		2401.36cm
8m	1.076, 4.2721x		2744.42cm
9m	0.8499, 3.3751x		3087.47cm
10m	0.6884, 2.7341x		3430.52cm

COLOR RENDERING INDEX (CRI) GRAPH

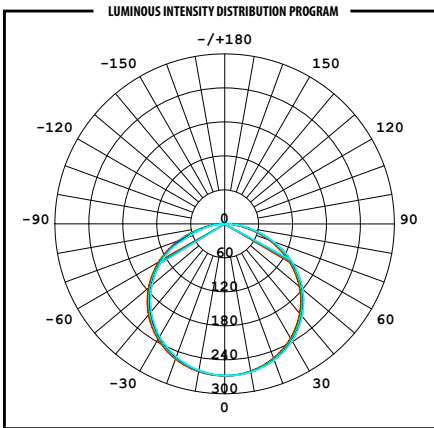


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

2835 ULTRA HIGH CRI 48W LED STRIP LIGHT PHOTOMETRICS

White (6000K)

SKU: SA-LS-ULTRA-W-2835-600-24V



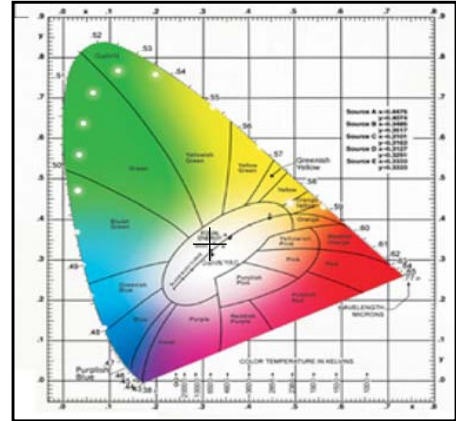
AVERAGE BEAM ANGLE (50%): **119.6 DEG**

UNIT: cd

- C0 / 180, 119.6
- C60 / 240, 119.7
- C30 / 210, 119.7
- C90 / 270, 119.6

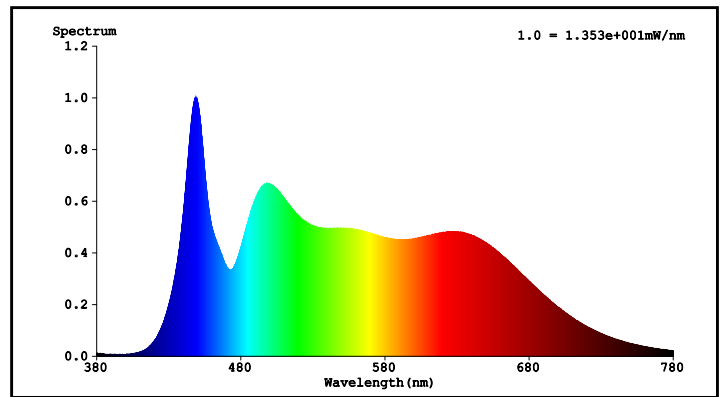
DEG.	Luminous Intensity: cd								DEG.
g	C0	C45	C90	C135	C180	C225	C270	C315	g
10	264.2	265.6	266.0	266.0	265.0	263.5	262.8	263.1	0-10
20	252.5	255.4	256.2	256.2	254.2	251.2	250.0	250.5	10-20
30	233.4	237.5	238.7	238.5	235.7	231.4	229.9	229.8	20-30
40	206.8	212.1	213.4	213.2	209.7	204.3	202.2	202.8	30-40
50	172.8	178.8	180.5	180.1	175.9	170.0	167.7	168.1	40-50
60	131.6	138.4	140.1	139.5	135.1	128.5	126.8	126.9	50-60
70	84.45	91.69	93.02	92.43	87.81	82.09	71.21	80.02	60-70
80	35.88	43.18	44.11	42.34	39.27	29.34	29.52	29.71	70-80
90	2.929	9.827	10.31	7.781	4.495	5.123	3.940	4.010	80-90
100	1.190	1.591	1.376	1.085	0.9451	0.9446	1.060	0.9770	90-100
110	1.823	1.947	1.824	1.873	1.512	1.454	1.553	1.462	100-110
120	2.463	2.637	2.611	2.506	2.062	1.963	2.038	1.971	110-120
130	2.883	2.982	3.359	2.851	2.531	2.447	2.481	2.415	120-130
140	3.088	3.261	3.712	3.187	3.031	3.031	2.892	2.874	130-140
150	3.187	3.549	3.803	3.474	3.516	3.417	3.352	3.294	140-150
160	3.392	3.770	3.778	3.664	3.894	3.729	3.919	3.794	150-160
170	3.663	3.910	3.901	3.746	4.107	4.057	4.313	4.066	160-170
180	4.099	4.222	4.468	4.181	4.107	4.206	4.468	4.123	170-180

CIE1931 CHROMATICITY DIAGRAM



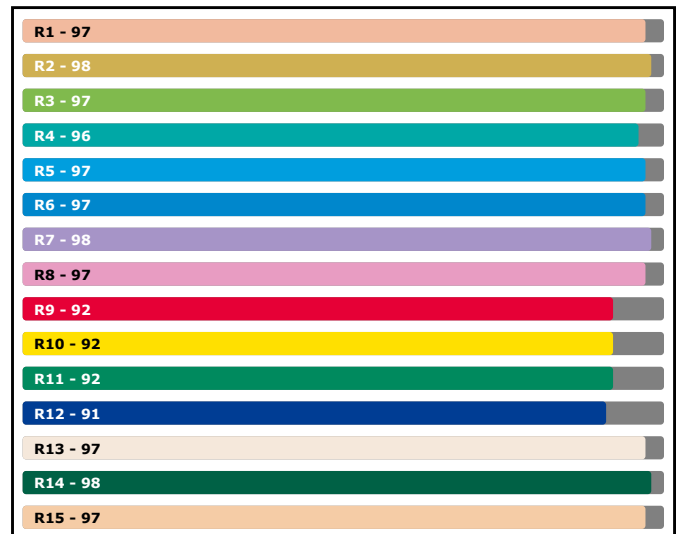
X = 0.3212 Y = 0.3399 CCT = 6016K

SPECTRAL DISTRIBUTION



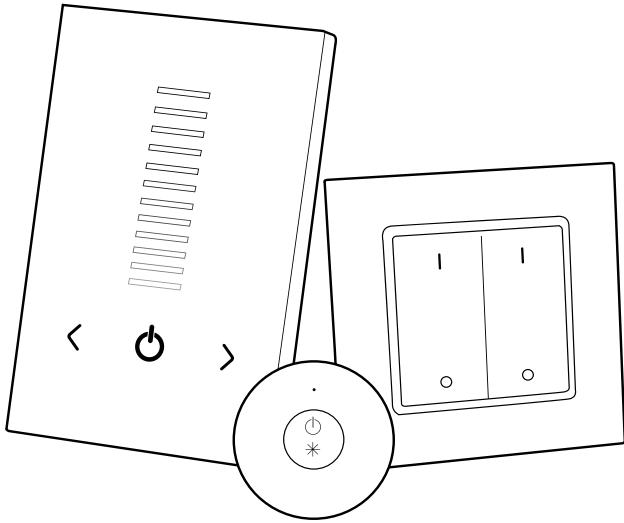
Height	E avg, E max	Angle: 119.62 deg	Diameter
1m	67.57, 268.41x		343.76cm
2m	16.89, 67.101x		687.53cm
3m	7.508, 29.821x		1031.29cm
4m	4.223, 16.771x		1375.06cm
5m	2.703, 10.741x		1718.82cm
6m	1.877, 7.4551x		2062.58cm
7m	1.379, 5.4771x		2406.35cm
8m	1.056, 4.1941x		2750.11cm
9m	0.8342, 3.3131x		3093.88cm
10m	0.6757, 2.6841x		3437.64cm

COLOR RENDERING INDEX (CRI) GRAPH

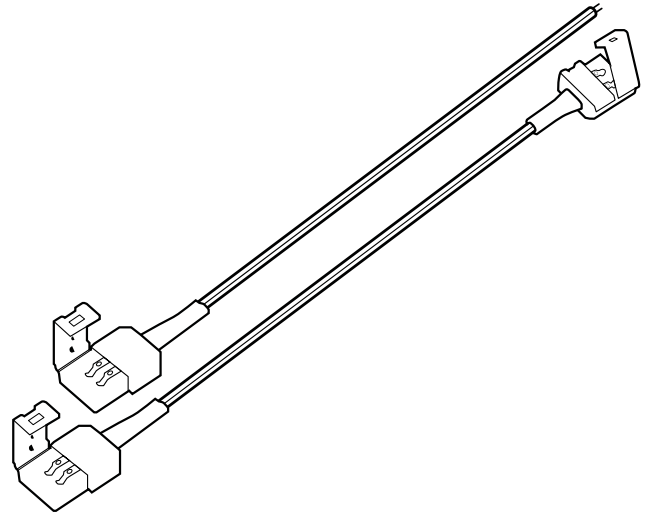


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

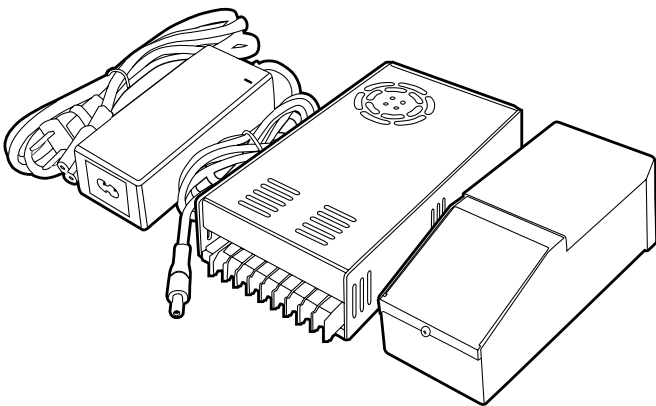
Dimmers



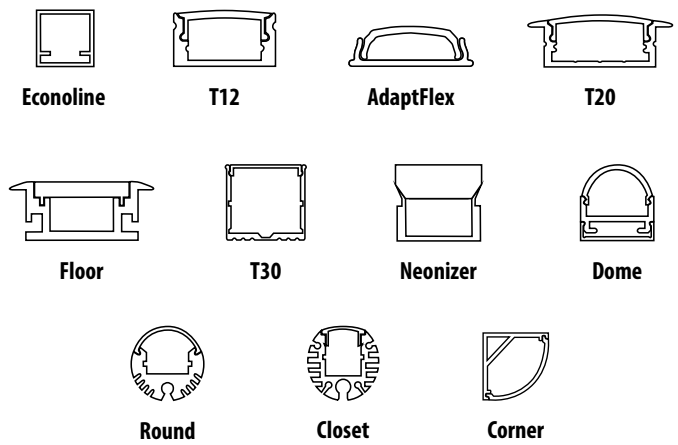
LED Strip Connectors



Power Supplies

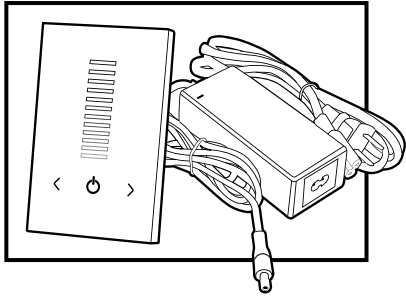


LED Strip Channels

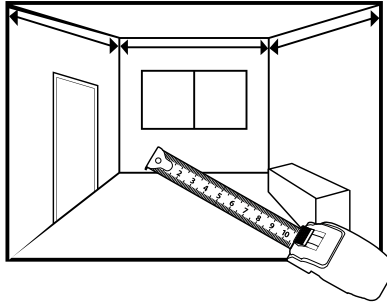


2835 ULTRA HIGH CRI 48W LED STRIP LIGHT INSTALLATION GUIDE

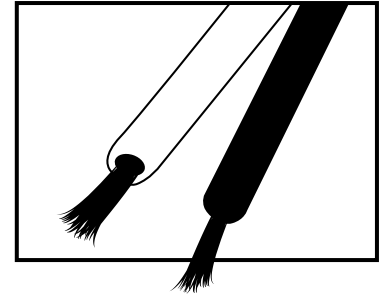
1. Determine where to install the Driver and optional Dimmer.



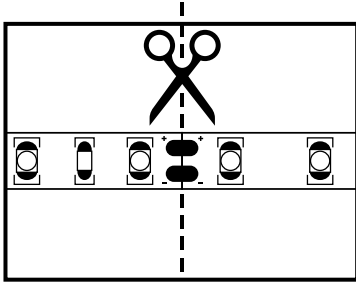
2. Determine the measurement of area where LED Strip Lights will be placed.



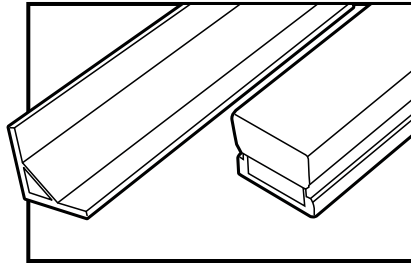
3. Determine how much wire needed (Driver to Dimmer, Dimmer to LED Strips).



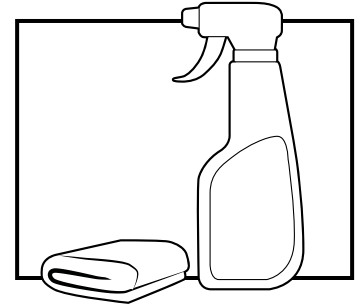
4. Cut LED Strip Lights (at cutting points) to fit or Join multiple Strips as recommended to cover installation area.



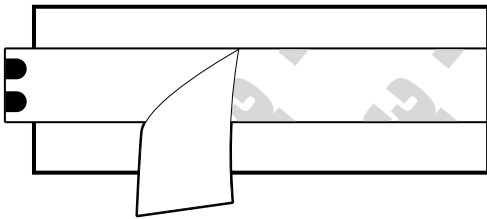
5. If using Channels, cut or extend them to fit size of the installation area



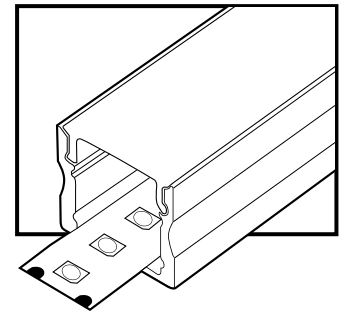
6. Thoroughly clean the surface where the LED Strip will be mounted.



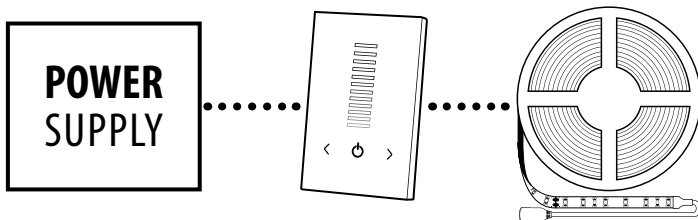
7. A. Peel the 3M Tape cover from the back of the LED Strips and mount it on surface.



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.

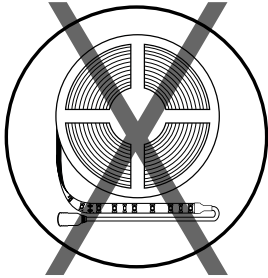


9. Power up and enjoy!

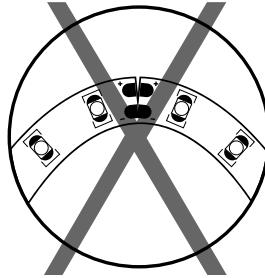
Note: If you have questions and concerns regarding the installation process. Please feel free to contact us at 425.582.7533. We will gladly assist you.

2835 ULTRA HIGH CRI 48W LED STRIP LIGHT WARNINGS

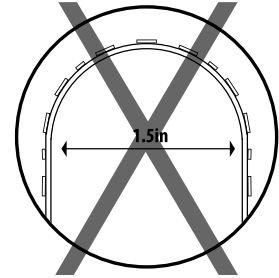
Do not power LED Strip still coiled in spool.



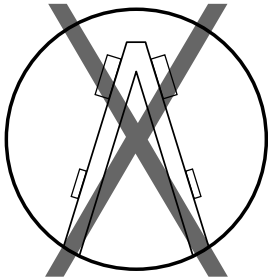
Do not bend LED Strip sideways.



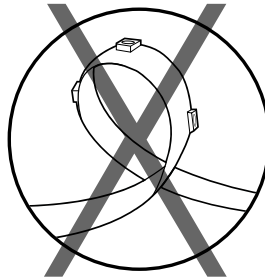
Do not bend LED strips to a diameter less than 1.5 inches.



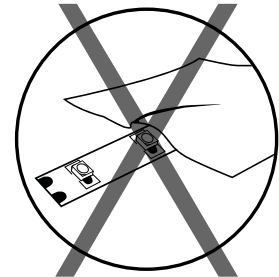
Do not fold or crease LED Strip.



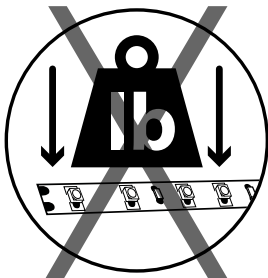
Do not twist LED Strip.



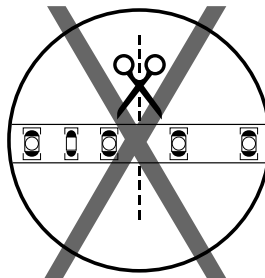
Do not cover LED Strip with anything other than LED Channel Diffusers.



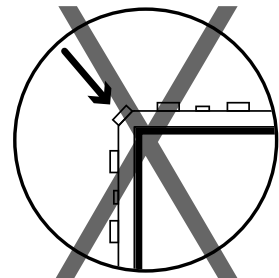
Do not put direct excessive pressure on the LED surface.



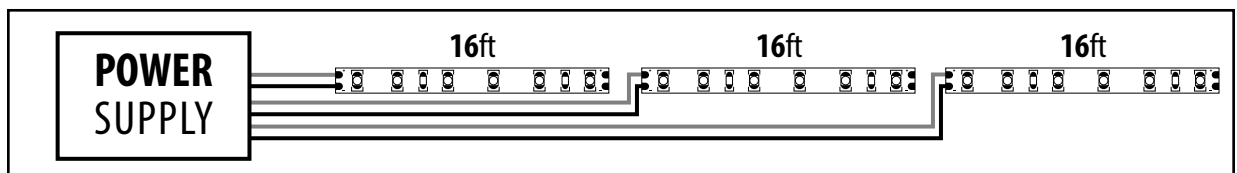
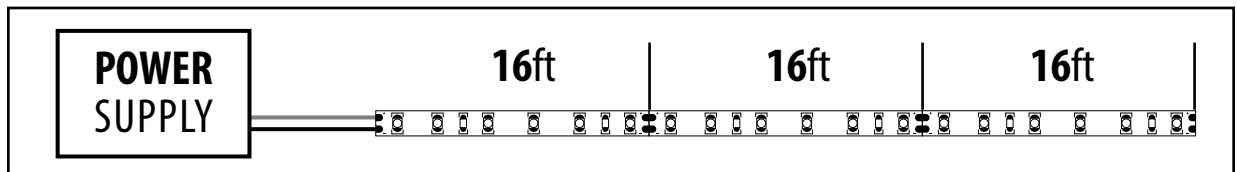
Do not cut LED Strips except at designated cutting points.



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 48W 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 48W 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 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.