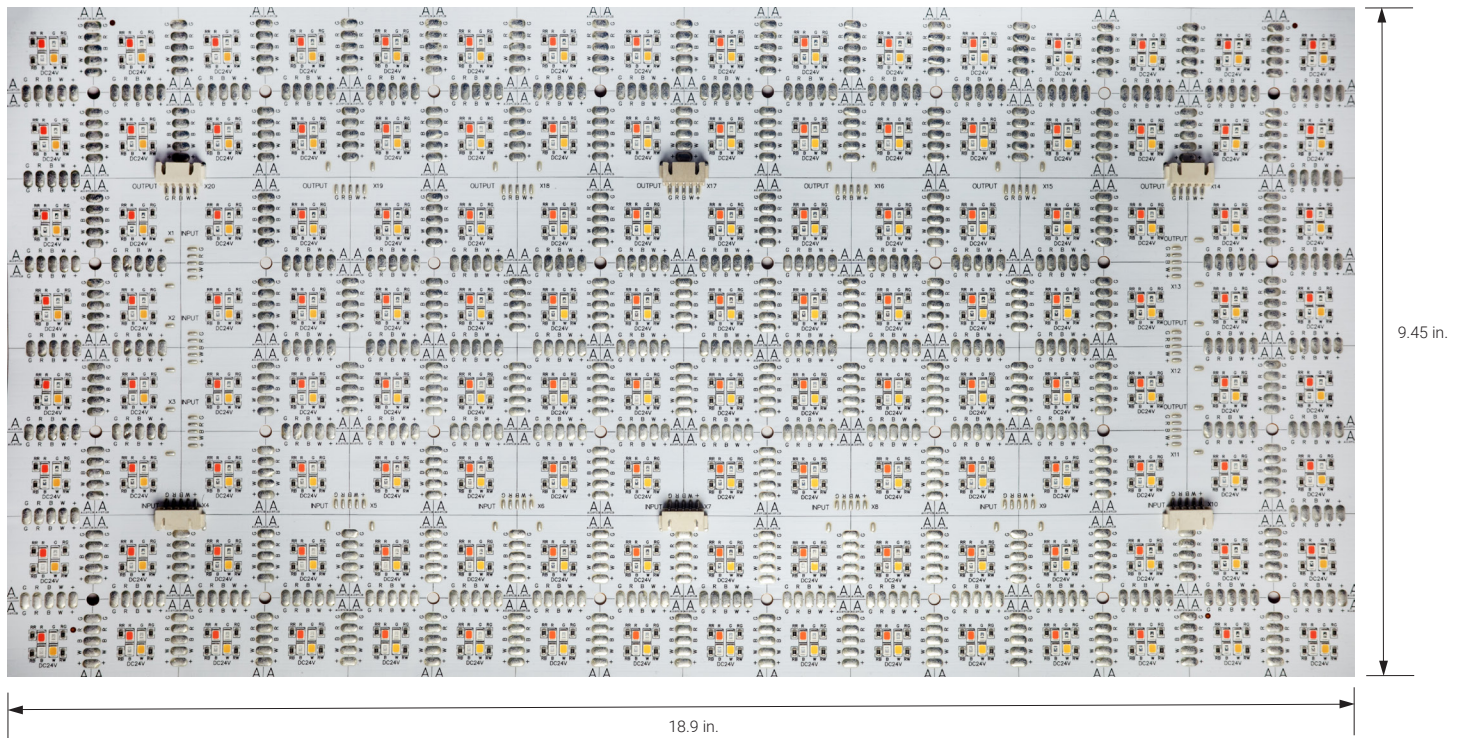


PrimaPanel RGBW Flexible LED Sheet



The PrimaPanel RGBW LED Sheet is a fully modular, flexible, and cuttable solution for backlighting applications such as displays, translucent materials, showcases, light boxes, channel letters, and signage. Designed with RGBW technology, it provides a wide spectrum of rich color effects along with dedicated white light for versatile illumination and a smooth, hotspot-free appearance.

- High density of LED chips contributes to a smooth distribution of light.
- High CRI of 95+, mix of white and RGB light provides both pastel and saturated color possibilities.
- Cuttable vertically and horizontally in single groups, allowing customized sizing and layouts.
- Compatible with external controllers to enable rich, dynamic lighting effects.
- Acrylic standoffs are available for purchase to create space between the PrimaPanel and overlaying material to ensure even illumination and protection.

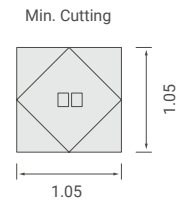
TECHNICAL INFORMATION

Color Temperature	RGBW	Maximum Number of Daisy-chained Sheets	3 sheets
Power Consumption per Sheet	31.39 Watts	Diode Type	2835 SMD
Current per Sheet	1.308 A	Mounting	Screws, nails and 3M™ VHB™ Adhesive Backing
Input Voltage	24V DC	Operating Temperature	-13° F to 140° F
Diodes per Sheet	512	Ambient Temperature	-13° F to 158° F
Diode Spacing	0.94 inches	Environment	Indoor, Outdoor (IP64)
Sheet Height	0.07 inches	Sheet Dimensions (LxWxH)	18.9 x 9.45 x 0.07 in.
Beam Angle	120°	Certifications	UL Listed
Minimum Cutting Size	1.18 x 1.18 in. (Horizontal/Vertical)	Warranty	6 Year Limited
Color Temperature	3000K (White)		
Dimmable	Yes		

ALLOY LED® Specifications

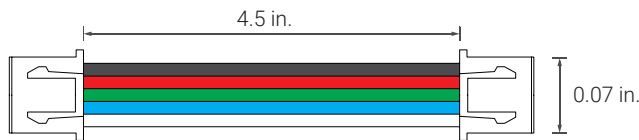
PRODUCT INFORMATION

Item Number	Voltage	Color Temperature	CRI	R9 Values	R13 Values	TM30	CQS	Lumens per Sheet
AL-02-92-2401	24V DC	3000K	97.4	94	97	94.7	95.7	791
		RGBW	-	-	-	-	-	2032



ACCESSORIES

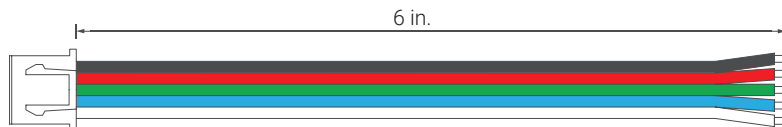
Includes two 4.5-inch jumper cables, two 6-inch hardwire cables, and six screws. Additional cables and acrylic standoffs are available for purchase.



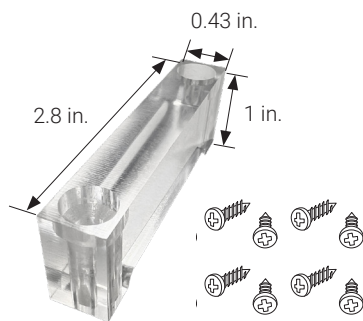
Jumper Cable - 3 in.
AL-02-92-9902



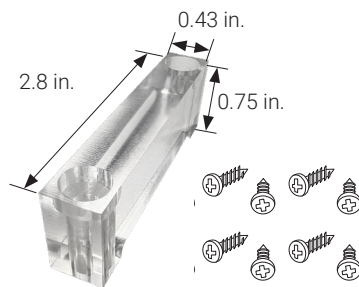
6 Screws



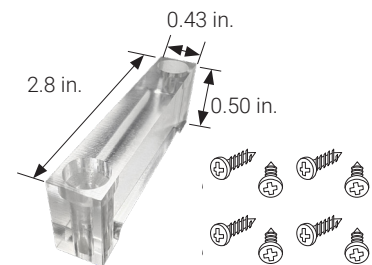
Hardwire Power Cable - 6 in.
AL-02-92-9908



Acrylic Standoff - Pack of 4 - 1 in.
8 screws
AL-02-92-99STND100-4



Acrylic Standoff - Pack of 4 - 0.75 in.
8 screws
AL-02-92-99STND075-4

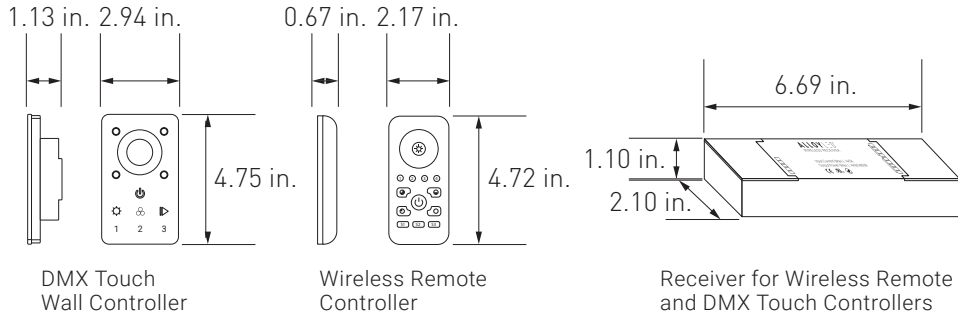


Acrylic Standoff - Pack of 4 - 0.5 in.
8 screws
AL-02-92-99STND050-4

ACCESSORIES (SOLD SEPARATELY)

Recommended Accessories

See our website for the full range of RGB/RGBW controllers and accessories.



Item Number	Description
AL-60-03-0002*	Wireless Remote Controller
AL-60-03-0003*	DMX Touch Wall Controller
AL-60-03-0004-V2	Receiver for Wireless Remote and DMX Touch Controllers

*Use with the Wireless Receiver AL-60-03-0004-V2 (sold separately)



Mean Well Non-Dimmable Drivers

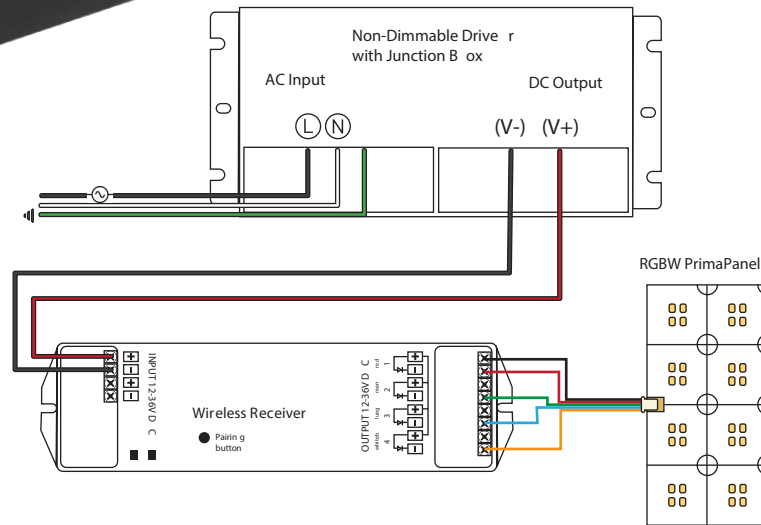
Item Number	Voltage	Wattage	Dimensions
AL-98-04-24036	24V DC	36W	5.83 x 1.58 x 1.18 in.
AL-98-04-24060	24V DC	60W	6.4 x 1.67 x 1.26 in.
AL-98-04-24100	24V DC	100W	7.5 x 2 x 1.46 in.
AL-98-04-24151	24V DC	151W	7.52 x 2.5 x 1.48 in.
AL-98-04-24200	24V DC	200W	8.47 x 5.43 x 1.18 in.

ALLOY LED® Specifications

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

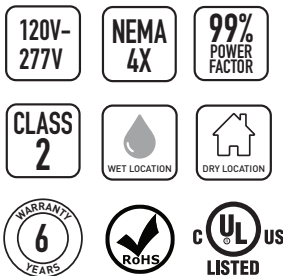


Alloy LED PowerFactor™ Non-Dimmable Power Supplies with Integrated UL Listed Junction Box
 Reliable, efficient low voltage power to RGB and RGBW color controllers and for use with white tape light on an on/off switch



Be sure to correctly align polarity. Connector polarity of the panel may change depending on side being connected.

Wiring diagram is for reference only. Please refer to dimmer wiring specifications sheet for accurate directions.

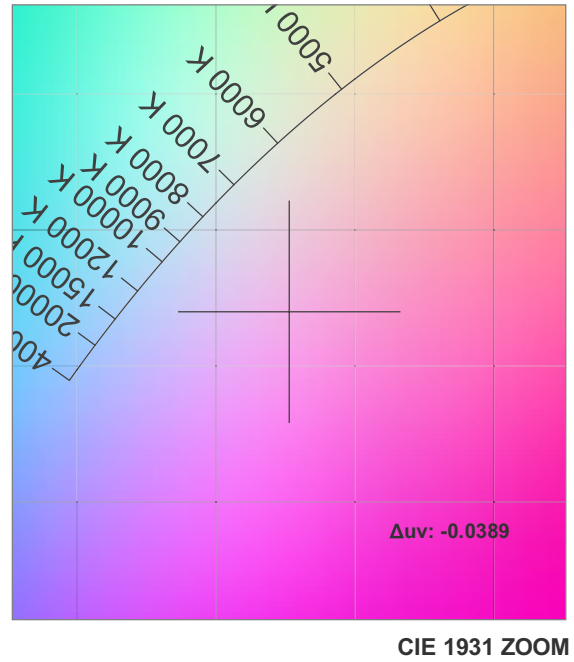
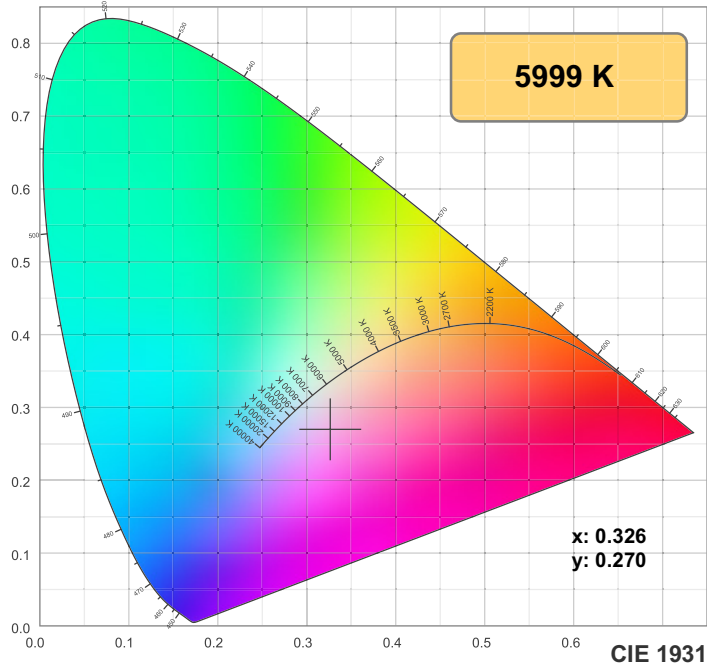


Item Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (Junction box) (L x W x H)	Class 2
AL-98-12-24030	24V DC	30W	Yes (NEMA 4X)	10%	6.5 x 3.72 x 1.57 in.	Yes
AL-98-12-24060	24V DC	60W	Yes (NEMA 4X)	10%	7.4 x 3.72 x 1.57 in.	Yes
AL-98-12-24080	24V DC	80W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	Yes
AL-98-12-24096	24V DC	96W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	Yes
AL-98-12-24192-MT	24V DC	2*96W	Yes (NEMA 4X)	10%	10.94 x 4.25 x 1.77 in.	Yes
AL-98-12-24288-MT	24V DC	3*96W	Yes (NEMA 4X)	10%	11.85 x 4.25 x 1.77 in.	Yes

Note: Alloy LED strongly recommends using Listed Class 2 power supplies for all installations. Always install in accordance with local and national electrical code regulations. Inspectors prefer power supply to be used with junction box. For dimmer compatibility, refer to drivers specification sheet.

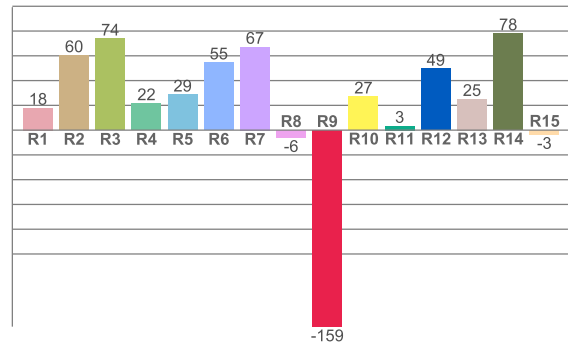
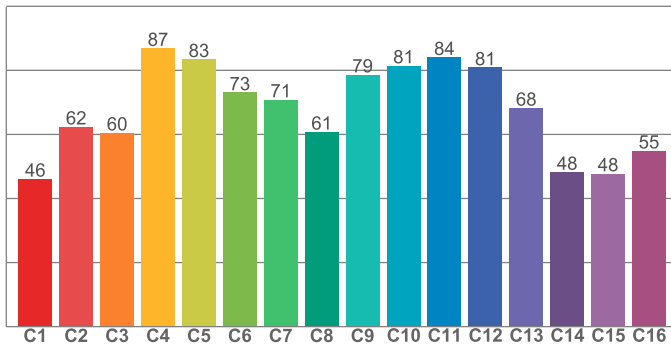
Note: specifications are representative of the diode type and not a particular tape light article.

RGB & 3000K WHITE ON



TM-30: 69.2

CRI: 39.8 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

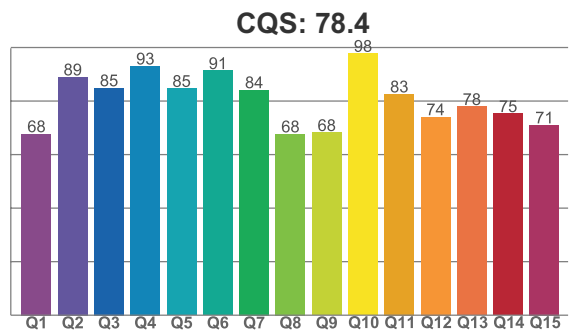
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
17.9	60.4	73.8	21.6	28.6	54.6	67.2	-5.8	-158.7	27.0	3.4	49.5	25.0	78.1	-3.3

TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
46.1	62.4	60.5	86.9	83.4	73.1	70.8	60.8	78.6	81.5	84.0	80.8	68.2	48.2	47.8	54.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
67.7	89.0	84.9	93.0	84.7	91.3	84.2	67.7	68.2	97.8	82.6	74.1	77.9	75.2	71.0



CQS: 78.4

Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
5999 K	39.8	-158.7	69.2	126.2	78.4	0.326	0.270	0.234	0.290	-0.0389

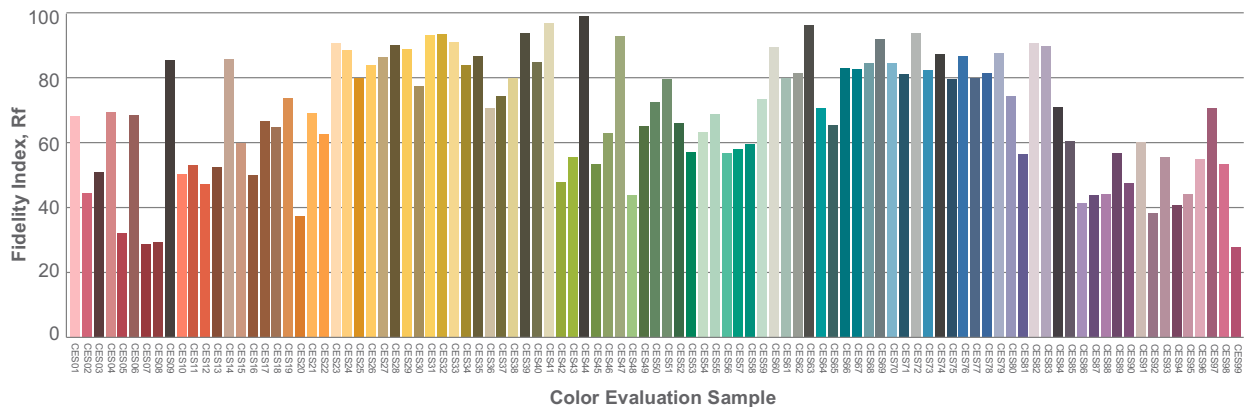
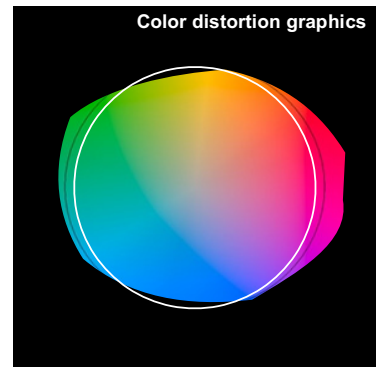
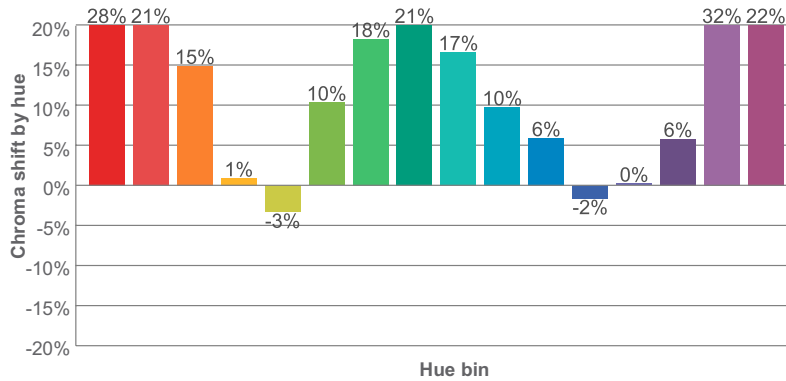
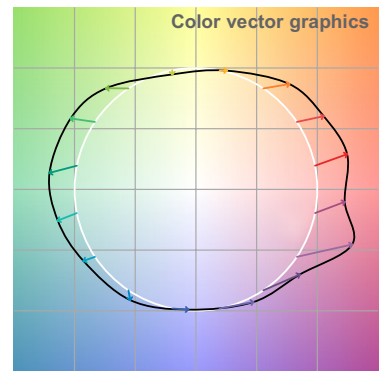
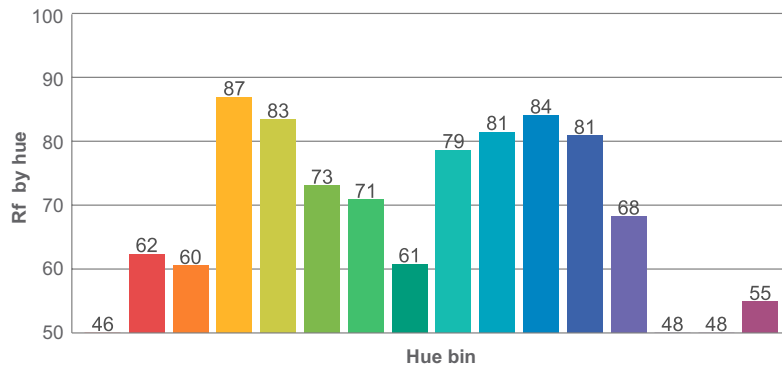
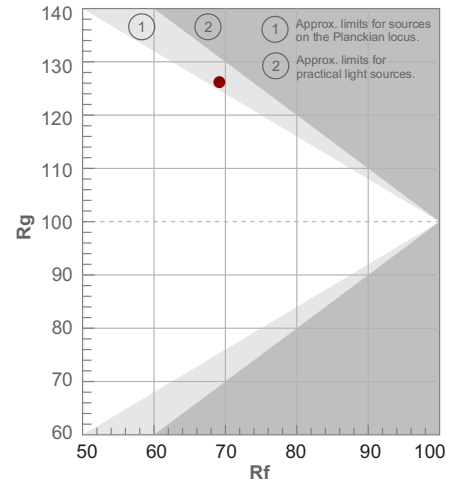
Note: specifications are representative of the diode type and not a particular tape light article.

RGB & 3000K WHITE ON

Rf 69.2
Fidelity index Rf

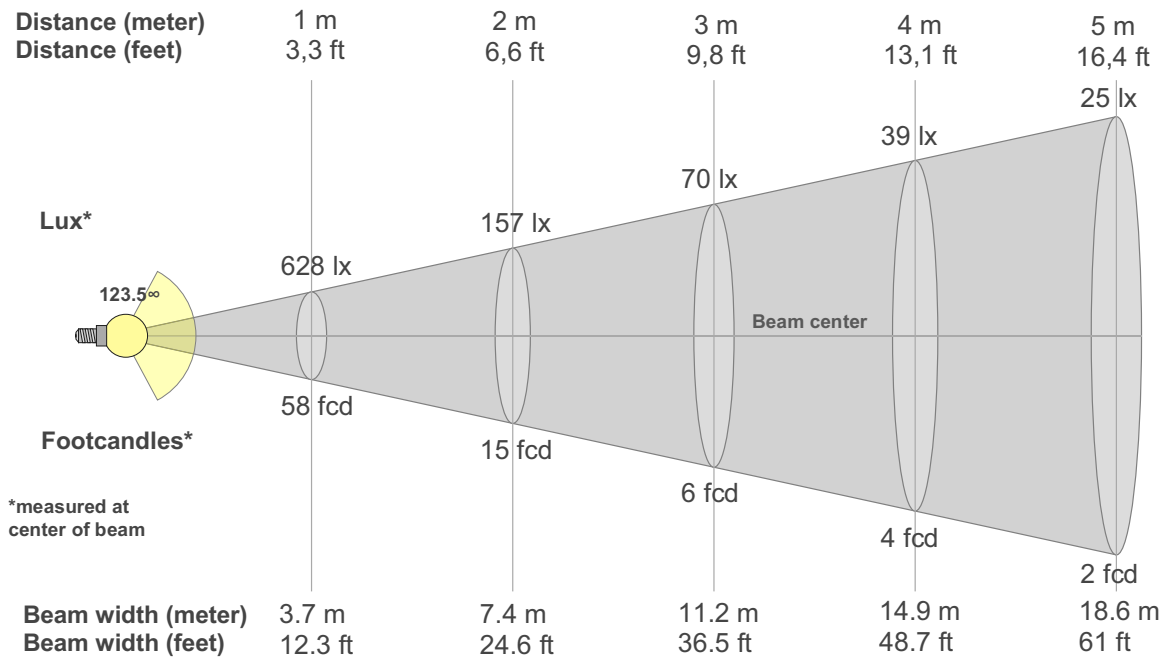
Rg 126.2
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	46	28%	4%
2	62	21%	-8%
3	60	15%	-16%
4	87	1%	-6%
5	83	-3%	1%
6	73	10%	15%
7	71	18%	9%
8	61	21%	10%
9	79	17%	3%
10	81	10%	-2%
11	84	6%	6%
12	81	-2%	13%
13	68	0%	28%
14	48	6%	32%
15	48	32%	34%
16	55	22%	14%



Note: specifications are representative of the diode type and not a particular tape light article.

RGB & 3000K WHITE ON



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
628lx	157lx	70lx	39lx	25lx	17lx	13lx	10lx	8lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	2lx
58.3fcd	14.6fcd	6.5fcd	3.6fcd	2.3fcd	1.6fcd	1.2fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd

Intensities in 0°c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
628	627	622	611	598	579	557	530	499	463	422	376	327	273	216	154	93	40	7	2
100%	100%	99%	97%	95%	92%	89%	84%	79%	74%	67%	60%	52%	44%	34%	25%	15%	6%	1%	0%

Intensities in 90°c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
628	625	621	612	600	584	562	537	506	470	429	384	333	277	217	153	91	38	5	2
100%	100%	99%	98%	96%	93%	90%	85%	81%	75%	68%	61%	53%	44%	35%	24%	14%	6%	1%	0%

Intensities in 180°c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
628	628	622	614	600	583	560	533	501	464	423	378	327	272	213	151	90	37	6	2
100%	100%	99%	98%	96%	93%	89%	85%	80%	74%	67%	60%	52%	43%	34%	24%	14%	6%	1%	0%

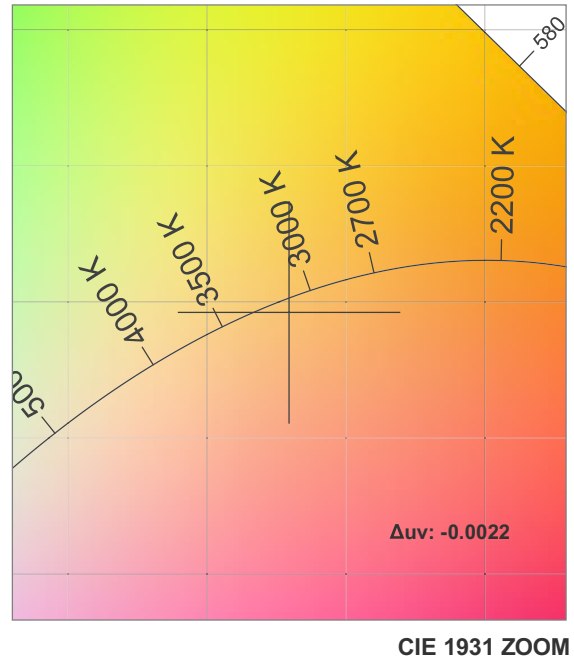
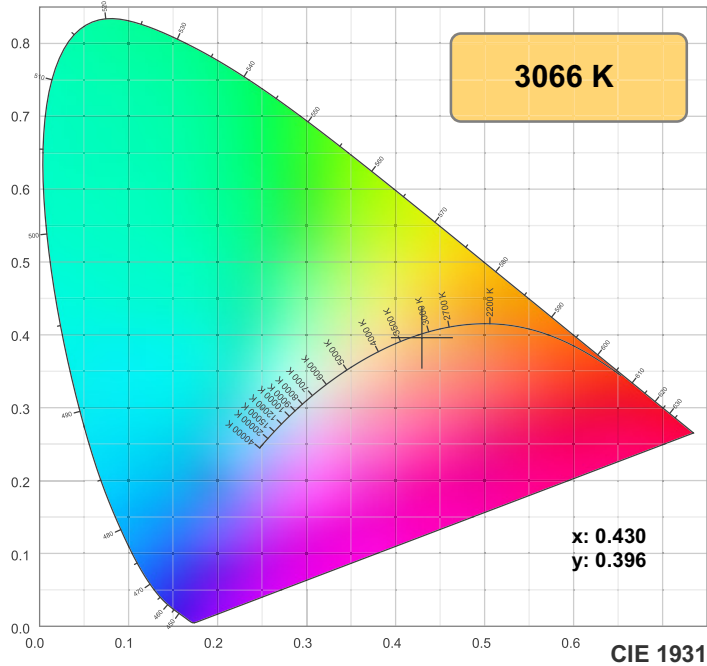
Intensities in 270°c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
628	625	620	611	598	580	559	533	503	468	427	382	333	277	217	155	94	40	7	2
100%	99%	99%	97%	95%	92%	89%	85%	80%	75%	68%	61%	53%	44%	35%	25%	15%	6%	1%	0%

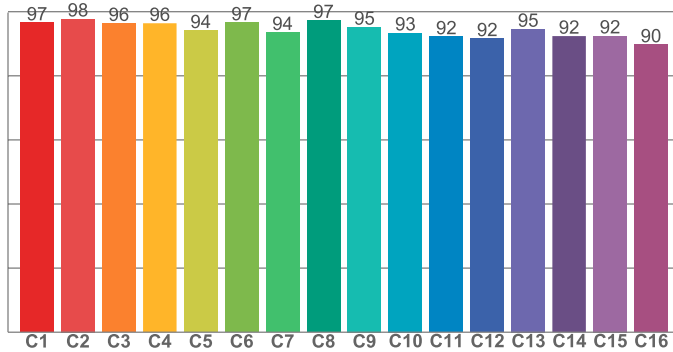
Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120°cone	Intensity ratio in 90°cone
123.5°	165°	176°	75.7%	50.0%

Note: specifications are representative of the diode type and not a particular tape light article.

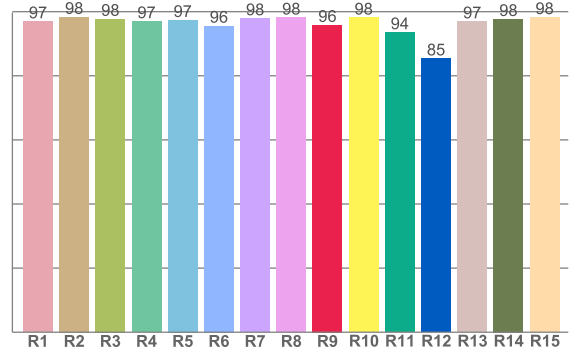
3000K WHITE ONLY



TM-30: 94.7



CRI: 97.4 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.0	98.3	97.7	97.0	97.4	95.6	97.9	98.1	95.8	98.1	93.5	85.4	96.9	97.7	98.3

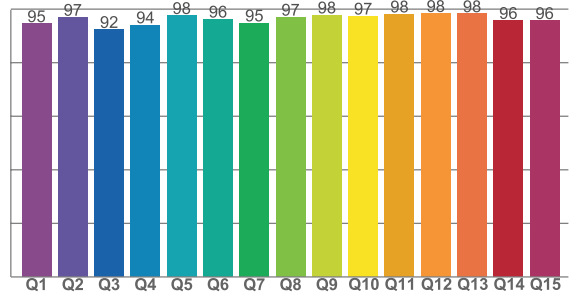
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.6	97.8	96.4	96.4	94.1	96.6	93.6	97.3	95.2	93.4	92.2	91.6	94.6	92.4	92.5	89.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94.5	96.9	92.4	94.1	97.6	96.2	94.8	97.0	97.8	97.4	98.2	98.3	98.2	95.7	95.7

CQS: 95.7



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3066 K	97.4	95.8	94.7	101.9	95.7	0.430	0.396	0.249	0.345	-0.0022

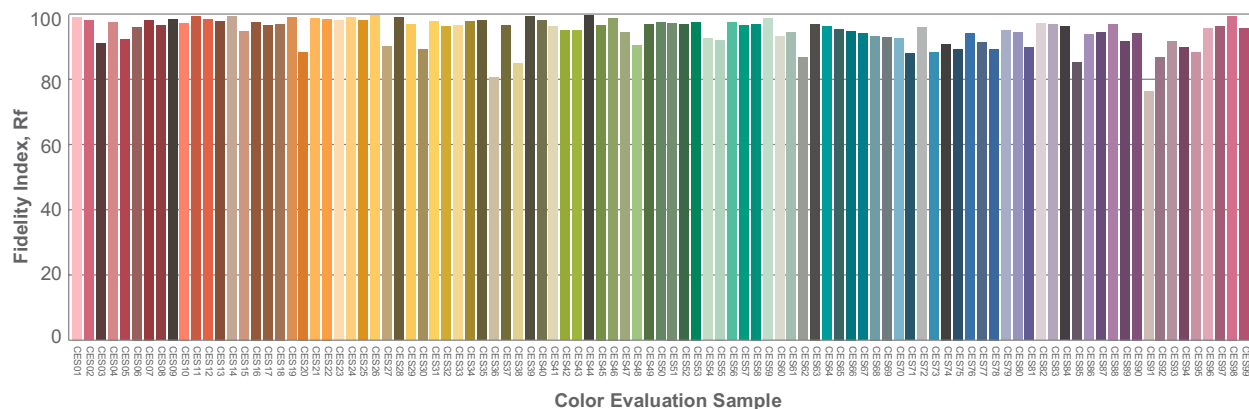
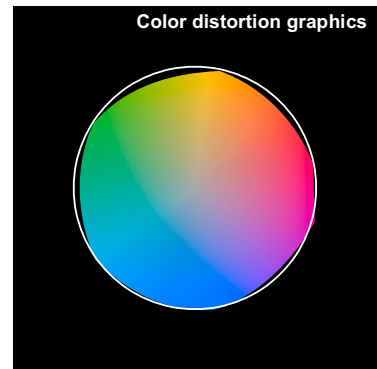
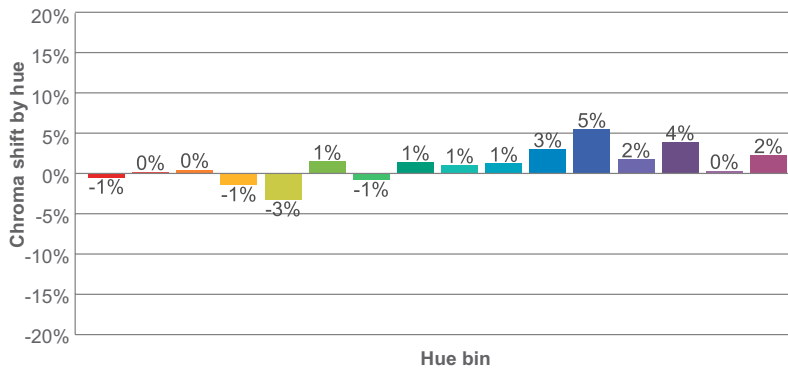
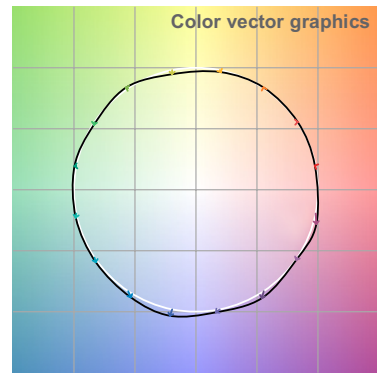
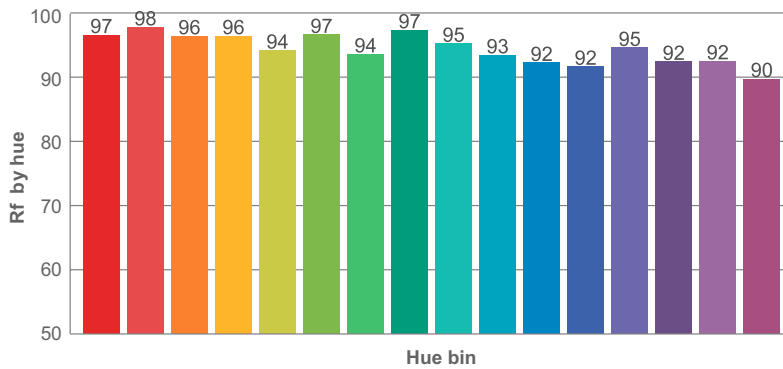
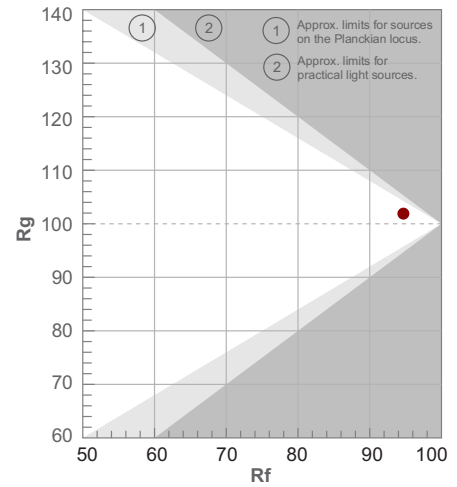
Note: specifications are representative of the diode type and not a particular tape light article.

3000K WHITE ONLY

Rf 94.7
Fidelity index Rf

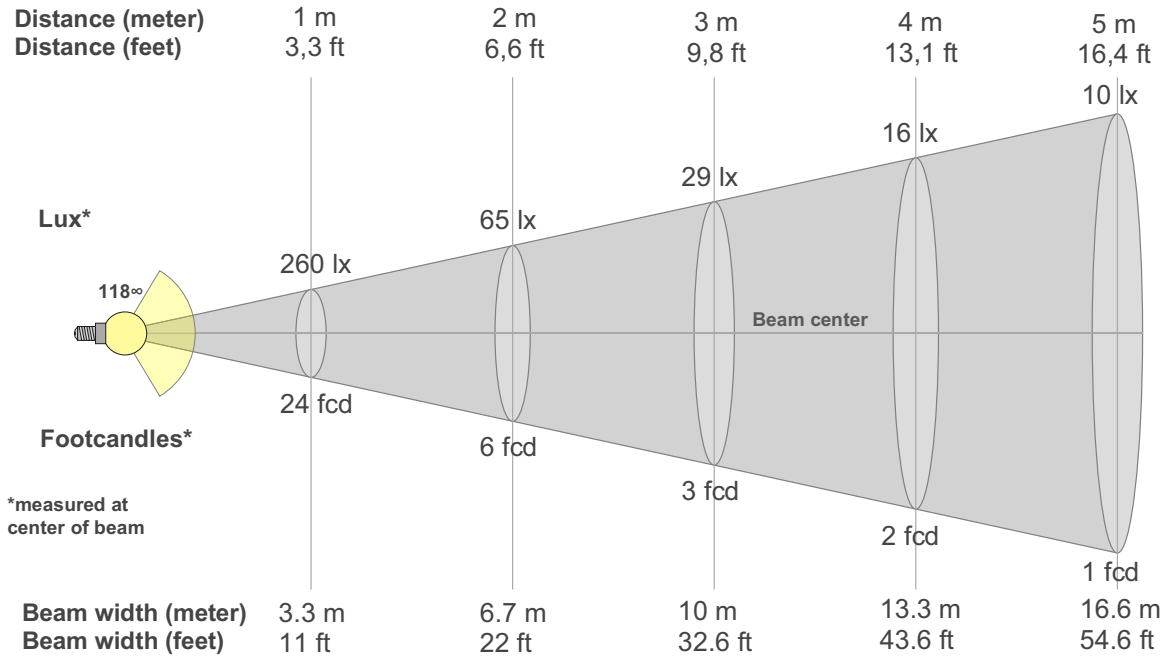
Rg 101.9
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	97	-1%	0%
2	98	0%	0%
3	96	0%	1%
4	96	-1%	-1%
5	94	-3%	1%
6	97	1%	1%
7	94	-1%	2%
8	97	1%	0%
9	95	1%	3%
10	93	1%	4%
11	92	3%	5%
12	92	5%	-1%
13	95	2%	-4%
14	92	4%	-4%
15	92	0%	-2%
16	90	2%	-8%



Note: specifications are representative of the diode type and not a particular tape light article.

3000K WHITE ONLY



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
260lx	65lx	29lx	16lx	10lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
24.2fcd	6fcd	2.7fcd	1.5fcd	1fcd	0.7fcd	0.5fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

Intensities in 0°c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
260	260	257	252	245	236	225	212	198	182	164	144	123	101	78	54	31	12	2	1
100%	100%	99%	97%	94%	91%	86%	82%	76%	70%	63%	56%	47%	39%	30%	21%	12%	5%	1%	0%

Intensities in 90°c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
260	259	256	252	246	238	228	216	202	186	169	149	128	105	81	56	32	13	1	1
100%	99%	98%	97%	94%	91%	87%	83%	78%	72%	65%	57%	49%	40%	31%	21%	12%	5%	1%	0%

Intensities in 180°c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
260	260	257	252	245	236	225	213	198	182	164	145	124	101	78	54	32	13	2	1
100%	100%	99%	97%	94%	91%	87%	82%	76%	70%	63%	56%	48%	39%	30%	21%	12%	5%	1%	0%

Intensities in 270°c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
260	259	256	251	245	237	227	215	201	185	168	149	128	105	81	57	33	14	2	1
100%	99%	98%	97%	94%	91%	87%	83%	77%	71%	65%	57%	49%	40%	31%	22%	13%	5%	1%	0%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120°cone	Intensity ratio in 90°cone
118°	162.7°	174.3°	77.3%	51.8%