

# RazorLine™ 3.7 LED Tape Light



cut point every 1.16 in. 0.16 in. wide



RazorLine 3.7 tape light offers a medium output light with an ultra-narrow form factor for applications that have very small size constraints.

- Ultra-narrow accenting or task lighting
- Medium output

## TECHNICAL INFORMATION

<b>Stocked Color Temp. (Kelvin)</b>	2700K, 3000K, 3500K, 4200K, 5000K
<b>Power Consumption per ft.</b>	3.73 Watts/155.5mA
<b>Input Voltage</b>	24V DC
<b>Diodes per foot</b>	73
<b>Diode Spacing</b>	0.17 inches
<b>Tape Height</b>	0.07 inches
<b>Beam Angle</b>	120°
<b>Field Cutable (UL 2108)</b>	Every 1.16 inches
<b>Max Run Length</b>	16.4 ft.
<b>Dimmable</b>	Yes

<b>Diode Type</b>	2110 Epistar
<b>Mounting</b>	3M™ Self-Adhesive Tape (Non-porous)
<b>Operating Temp.</b>	-13° F to 140° F
<b>Ambient Temp.</b>	-40° F to 176° F
<b>Environment</b>	Indoor, Dry
<b>Spool Lengths*</b>	7 ft., 16.4 ft.
<b>Certifications</b>	UL Listed, UL 2108
<b>Standards</b>	Certified to the CA Energy Commission in accordance with the Title 24 JA8 2019 std.
<b>Warranty</b>	6 Year Limited

\*Each spool comes with UL 2464 12 in. lead wire on both ends. Wire is 24 AWG.

## PRODUCT INFORMATION

7 ft. Spool Item #	16.4 ft. Spool Item #	Voltage	Kelvin temp. (CCT)	CRI	R9 Values	R13 Values	Lumens / foot
AL-01-33-2401	AL-01-33-2441	24V DC	2700K	96.1	96.9	96.5	271
AL-01-33-2402	AL-01-33-2442	24V DC	3000K	96.7	99.0	98.4	300
AL-01-33-2403	AL-01-33-2443	24V DC	4200K	97.4	98.3	98.6	316
AL-01-33-2404	AL-01-33-2444	24V DC	5000K	94.9	77.6	95.8	350
AL-01-33-2408	AL-01-33-2448	24V DC	3500K	96.9	98.0	98.3	307

## VOLTAGE DROP GUIDANCE CHART

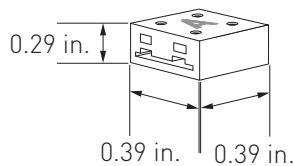
Standard Non-XT 24V Voltage Drop & Wire Length Distance Chart (3% Drop or 24V)\*

Wire Gauge	Copper Wire Resistance (Ω/kFT)	10W (0.42A)	20W (0.83A)	30W (1.25A)	40W (1.67A)	50W (2.08A)	60W (2.50A)	70W (2.92A)	80W (3.33A)	90W (3.75A)	96W (4A)
22 AWG	16.14	54 ft.	27 ft.	18 ft.	14 ft.	11 ft.	9 ft.	8 ft.	7 ft.	6 ft.	6 ft.
20 AWG	10.15	86 ft.	43 ft.	29 ft.	22 ft.	18 ft.	15 ft.	13 ft.	11 ft.	10 ft.	9 ft.
18 AWG	6.39	136 ft.	68 ft.	46 ft.	34 ft.	28 ft.	23 ft.	20 ft.	17 ft.	16 ft.	15 ft.
16 AWG	4.02	216 ft.	108 ft.	72 ft.	54 ft.	44 ft.	36 ft.	31 ft.	27 ft.	24 ft.	23 ft.
14 AWG	2.53	343 ft.	172 ft.	115 ft.	86 ft.	69 ft.	58 ft.	49 ft.	43 ft.	39 ft.	36 ft.
12 AWG	1.59	545 ft.	273 ft.	182 ft.	137 ft.	109 ft.	91 ft.	78 ft.	69 ft.	61 ft.	57 ft.
10 AWG	0.99	865 ft.	433 ft.	289 ft.	217 ft.	173 ft.	145 ft.	124 ft.	109 ft.	97 ft.	91 ft.

Note: These tables provide general guidelines for determining Wire Gauge based on total load and distance from LED driver to beginning of luminaire.

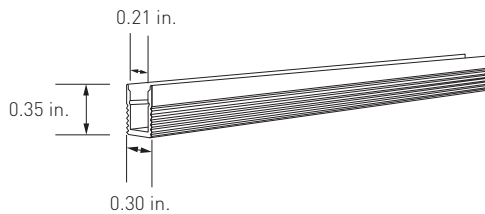
## ACCESSORIES (SOLD SEPARATELY)

Amp Champ: For a more secure connection

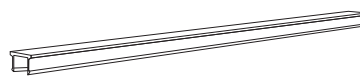


Accepts many combinations of tape and wire. Includes 3M® adhesive backing and pre-attached 6 inch in-wall-rated 18 AWG lead wire.

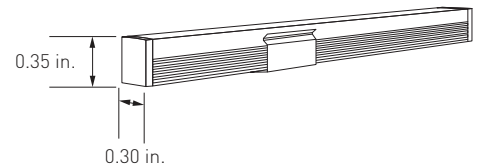
**Standard Amp Champ**  
AL-01-33-9900  
AL-01-33-9900-10 (10 pack)



**Surface-Mount Channel - Aluminum Finish**  
AL-01-33-0011-AL-PART (4 ft.)  
AL-01-33-0015-AL-PART (7 ft.)

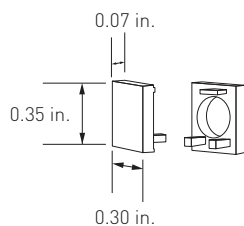


**Frosted Diffuser PC Cover**  
AL-01-33-9902-FRT (4 ft.)  
AL-01-33-9905-FRT (7 ft.)

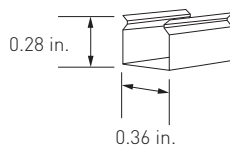


**Channel Kit - 4ft.: 1 Aluminum Channel, 1 Frosted Diffuser Cover, 2 Pair Pack of Plastic End Caps - Silver, 5 Metal Mounting Clips/Screws**  
AL-01-33-0111-KIT (4 ft.)

**Channel Kit - 7ft.: 1 Aluminum Channel, 1 Frosted Diffuser Cover, 4 Pair Pack of Plastic End Caps - Silver, 10 Metal Mounting Clips/Screws**  
AL-01-33-0115-KIT (7 ft.)



**Plastic End-Caps 2 Pair Pack: 2 Open, 2 Closed - Silver**  
AL-01-33-9951-SL



**Metal Mounting Clips/Screws (5 pack)**  
AL-01-33-9981



**Accessory Pack - 4ft.: 2 Pair Pack of Plastic End Caps - Silver, 5 Metal Mounting Clips/Screws**  
AL-01-33-0111-PACK (4 ft.)

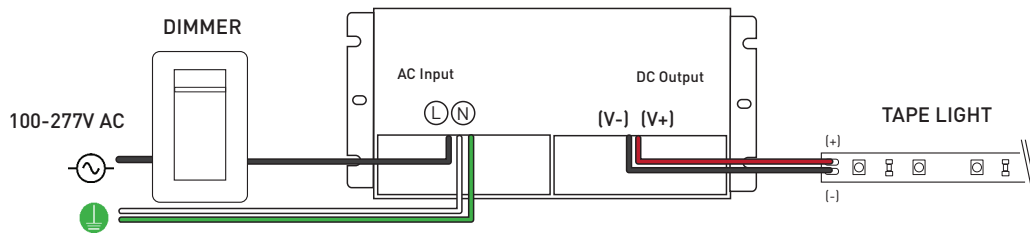
**Accessory Pack - 7ft.: 4 Pair Pack of Plastic End Caps - Silver, 10 Metal Mounting Clips/Screws**  
AL-01-33-0115-PACK (7 ft.)

# ALLOY LED<sup>®</sup> Specifications

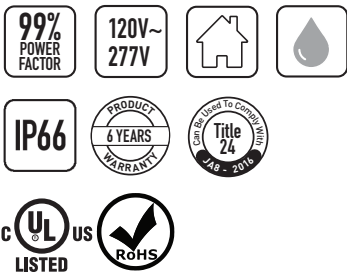
## RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



Alloy LED PowerFactor™ Dimmable Power Supplies w/ Integrated UL Listed Junction Box  
Compact, highly efficient, and code-compliant power supply with versatile and smooth dimming capabilities.



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



### Single Tap Models

Item #	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class 2
AL-98-10-12030	12V DC	30W	N	10%	6.50 x 3.72 x 1.02 in.	Y
AL-98-10-12060	12V DC	60W	N	10%	7.40 x 3.72 x 1.02 in.	Y
AL-98-10-12120	12V DC	120W	Y (IP66)	10%	8.66 x 3.72 x 1.57 in.	N
AL-98-10-24030	24V DC	30W	N	10%	6.50 x 3.72 x 1.02 in.	Y
AL-98-10-24060	24V DC	60W	N	10%	7.40 x 3.72 x 1.02 in.	Y
AL-98-10-24096	24V DC	96W	Y (IP66)	10%	8.66 x 3.72 x 1.57 in.	Y
AL-98-10-24150	24V DC	150W	Y (IP66)	10%	10.24 x 4.13 x 1.77 in.	N
AL-98-10-24200	24V DC	200W	Y (IP66)	10%	10.24 x 4.13 x 1.77 in.	N
AL-98-10-24300	24V DC	300W	Y (IP66)	10%	10.94 x 4.33 x 1.77 in.	N

### Class 2 Compliant Multi-Tap Models

Item #	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class 2
AL-98-10-12300-MT	12V DC	300W	Y (IP66)	10%	11.85 x 4.33 x 1.77 in.	Y
AL-98-10-24192-MT	24V DC	192W	Y (IP66)	10%	10.94 x 4.33 x 1.77 in.	Y
AL-98-10-24288-MT	24V DC	288W	Y (IP66)	10%	10.85 x 4.33 x 1.77 in.	Y

Note: PowerFactor assumes 80% load.  
Inspectors prefer power supply to be used with junction box.  
For dimmer compatibility, refer to drivers specification sheet.

# ALLOY LED® Specifications

## RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

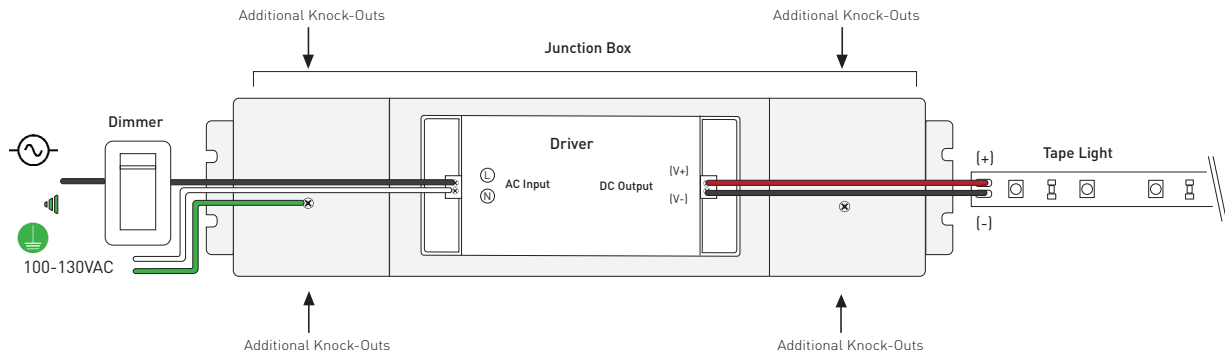
Alloy LED Primavolt® No Minimum Load Dimmable Power Supplies w/ETL Listed Junction Box  
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with ELV, MLV, and TRIAC dimmers.



White model for 60W and lower



Black model for 80W and higher



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



Item #	Output Voltage	Wattage	Dry/Damp Location	Min. Load	Dimensions (Junction box) (L x W x H)	Class 2
AL-98-03-12024-NM	12V DC	24W	Y	0%	13.77 x 3.03 x 1.45 in.	Y
AL-98-03-12048-NM	12V DC	48W	Y	0%	13.77 x 3.03 x 1.45 in.	Y
AL-98-03-12060-NM	12V DC	60W	Y	0%	13.77 x 3.03 x 1.45 in.	Y
AL-98-03-12080-NM	12V DC	80W	Y	0%	14.96 x 3.03 x 2.24 in.	N
AL-98-03-12120-NM	12V DC	120W	Y	0%	14.96 x 3.03 x 2.24 in.	N
AL-98-03-24024-NM	24V DC	24W	Y	0%	13.77 x 3.03 x 1.45 in.	Y
AL-98-03-24048-NM	24V DC	48W	Y	0%	13.77 x 3.03 x 1.45 in.	Y
AL-98-03-24060-NM	24V DC	60W	Y	0%	13.77 x 3.03 x 1.45 in.	Y
AL-98-03-24080-NM	24V DC	80W	Y	0%	14.96 x 3.03 x 2.24 in.	Y
AL-98-03-24096-NM	24V DC	96W	Y	0%	14.96 x 3.03 x 2.24 in.	Y
AL-98-03-24150-NM	24V DC	150W	Y	0%	15.98 x 3.42 x 2.36 in.	N
AL-98-03-24200-NM	24V DC	200W	Y	0%	15.98 x 3.42 x 2.36 in.	N

Note: Alloy LED strongly recommends using UL 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.

# ALLOY LED® Specifications

## DIMMING ACCESSORIES (SOLD SEPARATELY)

### Lutron® Dimming Accessories

By participating in Lutron's OEM Advantage program, Alloy LED is able to offer a range of the highest quality low voltage power supplies and selected controls on the market.



Hi-lume Premier  
0.1% EcoSystem /  
3-wire LED Driver  
(96W 24VDC)



Hi-lume 1% LED Driver 40W  
- EcoSystem / 3-wire control  
- 2-wire 120V forward  
phase control



Lutron Vive PowPak RF Module  
- RF module for EcoSystem LED  
driver control  
- Use with the Lutron EcoSystem  
drivers shown to "Vive-enable"  
Alloy LED products

### Lutron® Hi-lume LED Drivers

Item #	Output	Wattage	Min. Load	Class 2
AL-98-07-24040	24V DC	40W	n/a	Y
AL-98-07-24040-3WIRE	24V DC	40W	n/a	Y
AL-98-07-24096-3WIRE	24V DC	96W	n/a	Y

### Lutron® Controls

Item #	Description	Voltage
AL-98-07-9901	EcoSystem Control Module	n/a
AL-98-07-9901-8	EcoSystem Control Module - 8 pack	n/a
AL-98-07-9950	CL Dimmer	120V AC
AL-98-07-9950-FPLATE	CL Dimmer faceplate	n/a

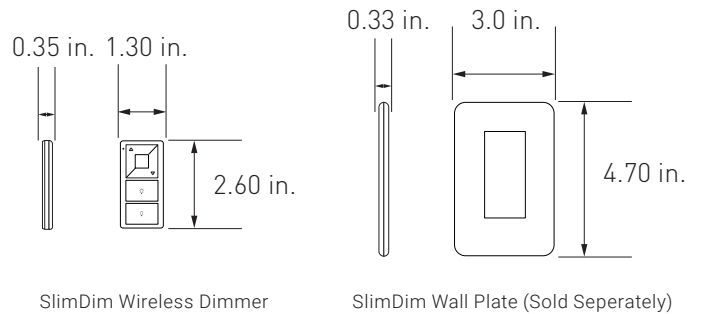
## DIMMING ACCESSORIES (SOLD SEPARATELY)

### Dimmers & Switches

#### SlimDim Wireless Dimmers

Using long-range RF technology, these LED dimmers connect wirelessly to a receiver, offering freedom to mount anywhere. Can also be used as a fob for mobile, hand-held control.

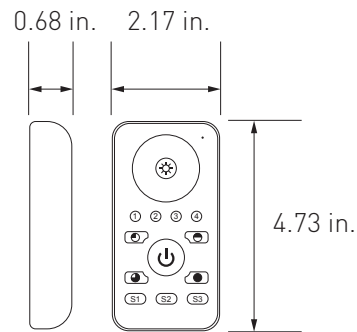
AL-70-01-0001	SlimDim Wireless Dimmer
AL-70-01-0002	Single Color Receiver (96W max.) (sold separately)
AL-98-07-9950-FPLATE	SlimDim Wall Plate (sold separately)



#### Remote Control Dimmer Switch

Provides full dimming and on/off control, and includes a touch wheel that allows for direct visual selection of brightness. It can also operate up to four independent zones.

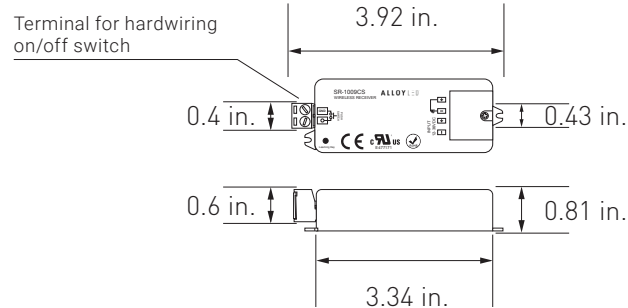
AL-60-03-0001	Remote Control Dimmer Switch
AL-70-01-0002	Single Channel Receiver (sold separately)
AL-60-03-0004-V2	Wireless Receiver (RGB & RGB-W) (sold separately)



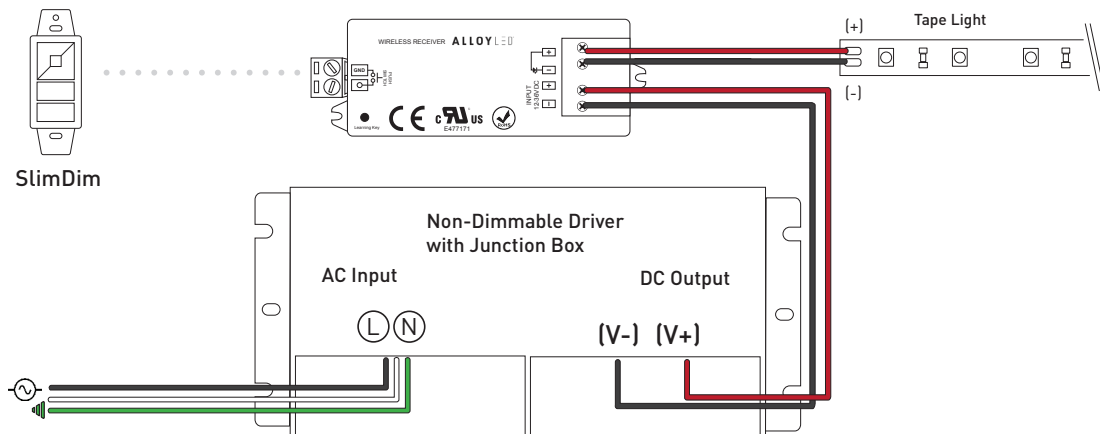
#### Single Channel Wireless Receiver

Pair with the Remote Control Dimmer Switch or the SlimDim Wireless Dimmer to dim Primaline tape lights. Use one remote to make independent lighting zones with multiple receivers with certain controllers.

AL-70-01-0002	Single Channel Wireless Receiver
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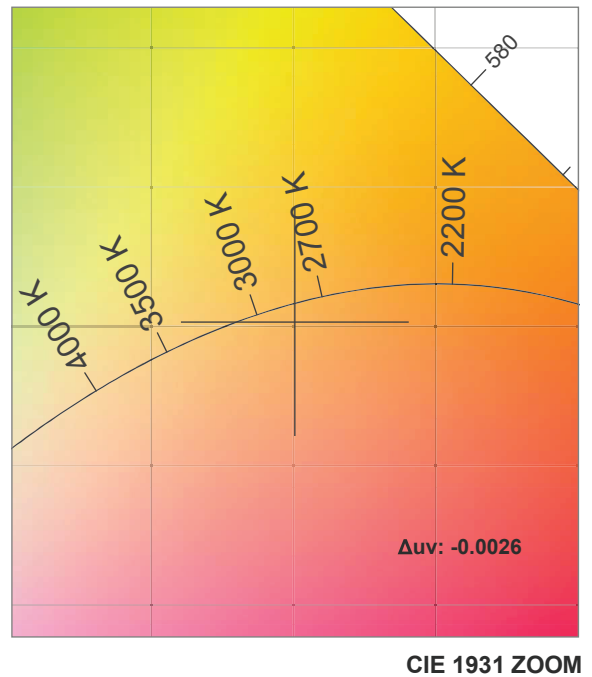
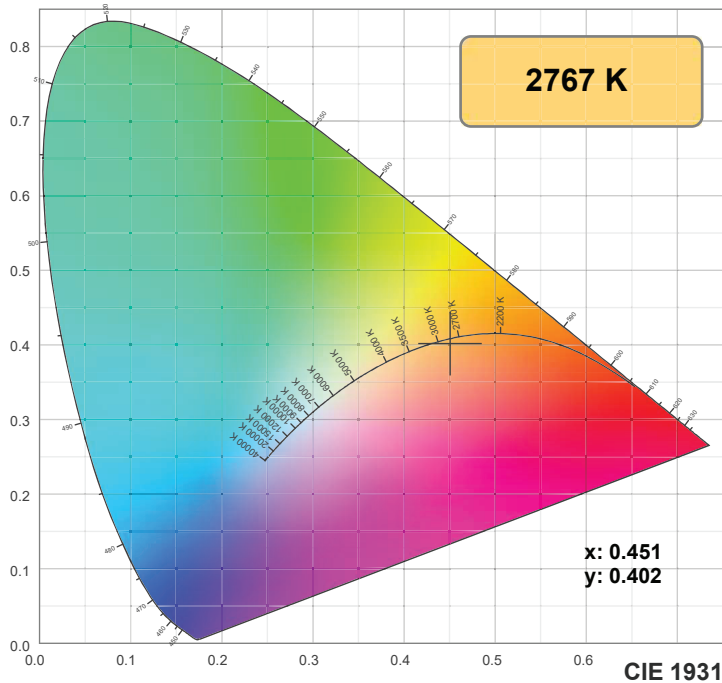


## WIRING DIAGRAM

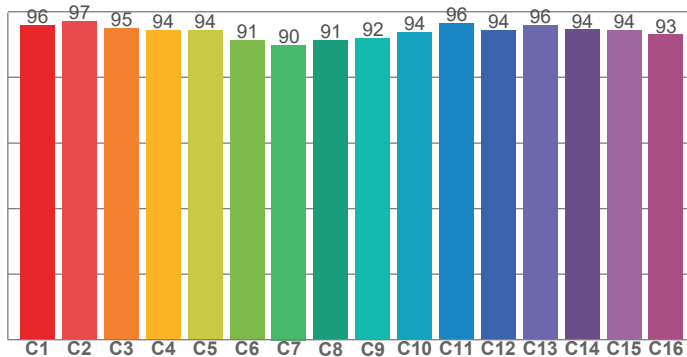


Note: specifications are representative of the diode type and not a particular tape light article.

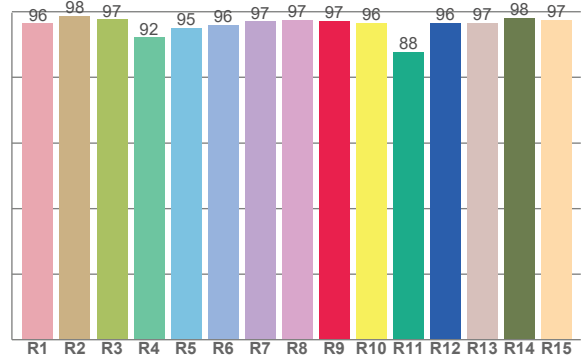
2700K



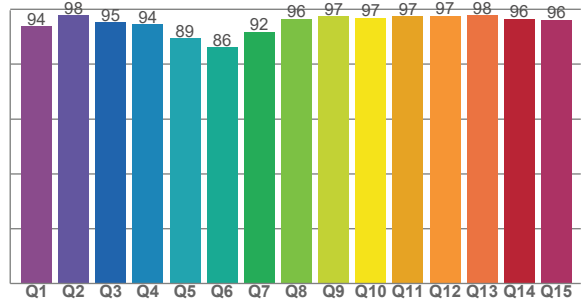
TM30: 94.2



CRI: 96.1 (R1-R8)



CQS: 93.4



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
96.2	98.4	97.5	92.1	95.0	95.9	96.8	97.2	96.9	96.4	87.5	96.4	96.5	97.9	97.3

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
95.8	97.1	94.9	94.3	94.2	91.2	89.8	91.1	91.7	93.7	96.3	94.2	95.7	94.4	94.2	92.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.6	97.6	95.2	94.4	89.3	86.0	91.6	96.4	97.3	96.8	97.2	97.5	97.8	96.4	96.1

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
2767 K	96.1	96.9	94.2	105.4	93.4	0.451	0.402	0.260	0.348	-0.0026

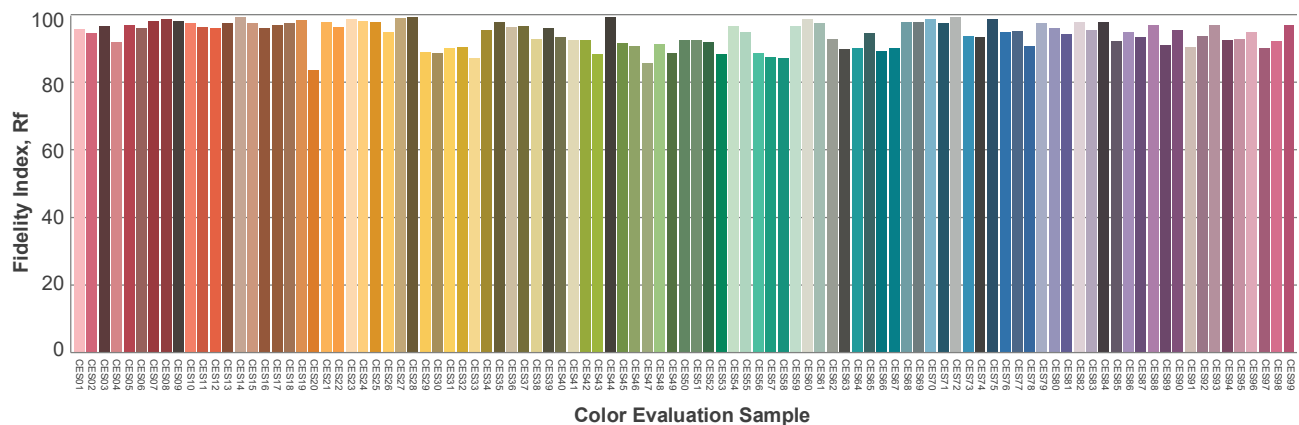
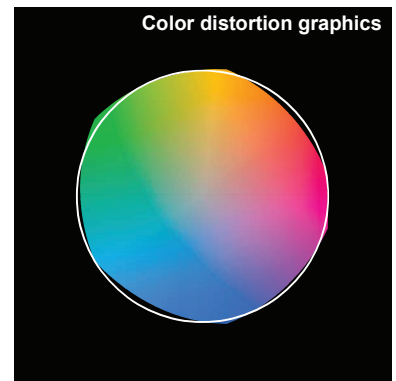
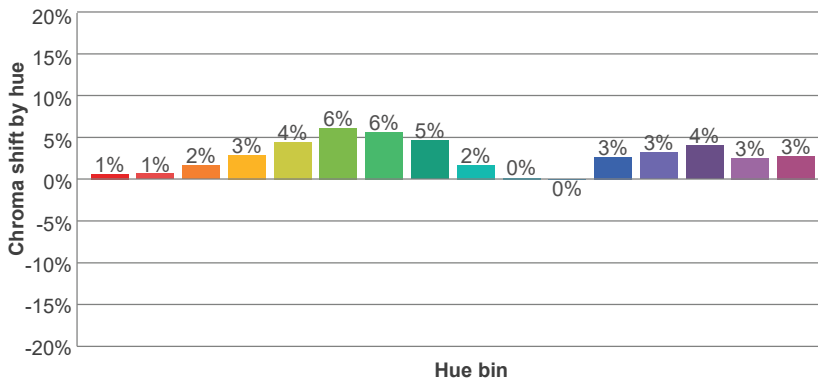
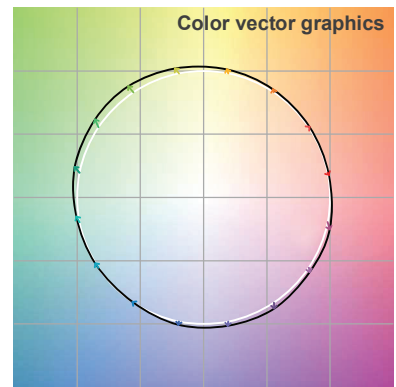
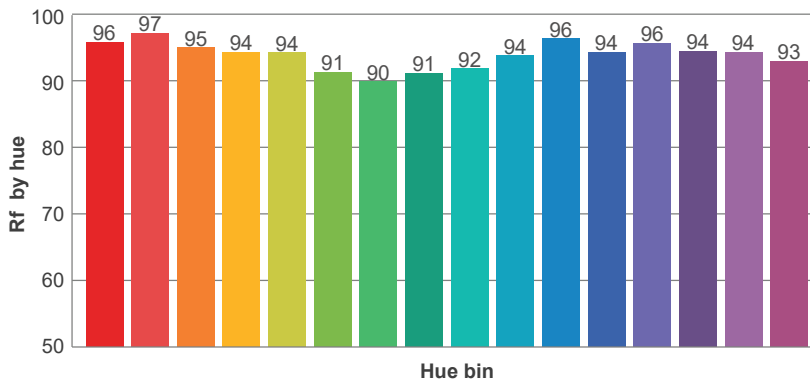
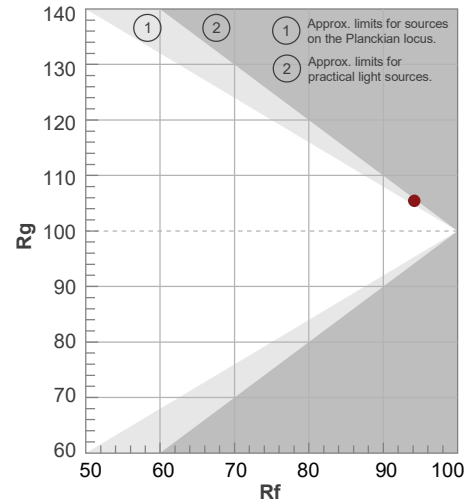
Note: specifications are representative of the diode type and not a particular tape light article.

2700K

**Rf 94.2**  
Fidelity index Rf

**Rg 105.4**  
Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-2%
2	97	1%	0%
3	95	2%	2%
4	94	3%	2%
5	94	4%	2%
6	91	6%	1%
7	90	6%	-4%
8	91	5%	-4%
9	92	2%	-5%
10	94	0%	-4%
11	96	0%	-1%
12	94	3%	0%
13	96	3%	-1%
14	94	4%	-2%
15	94	3%	-2%
16	93	3%	-5%

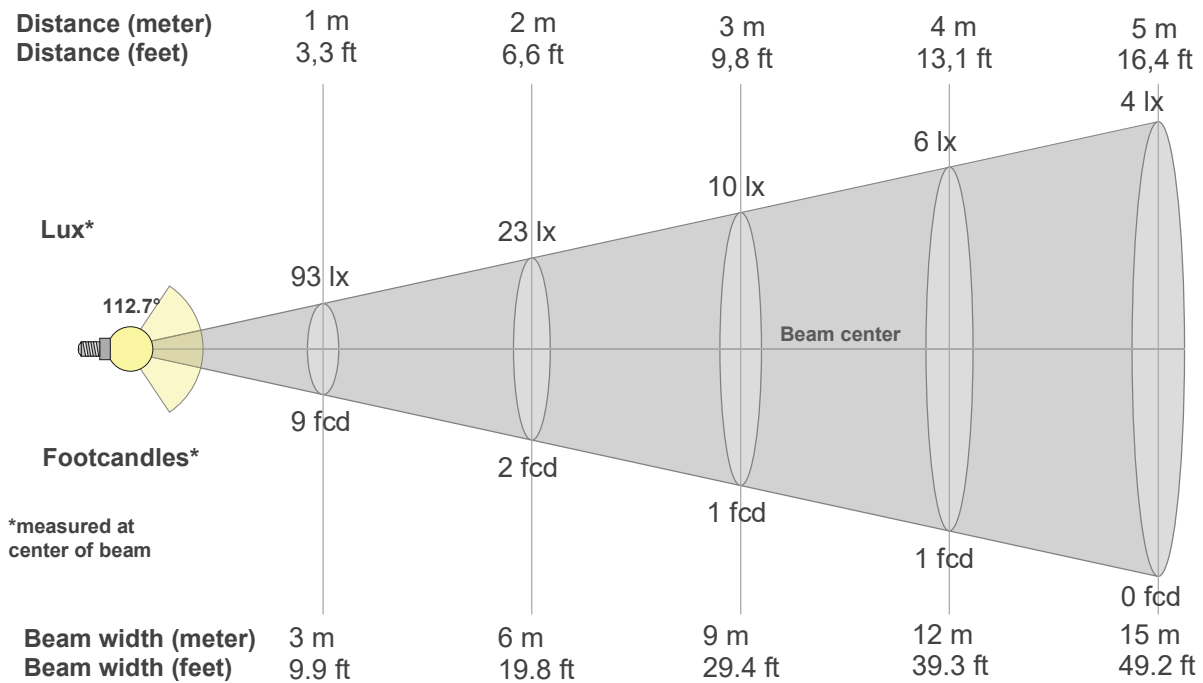


Color Evaluation Sample



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

2700K



**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
93lx	23lx	10lx	6lx	4lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
8.6fcd	2.2fcd	1fcd	0.5fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

**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°
93.0	92.4	91.2	89.3	86.4	82.9	78.8	73.8	68.3	62.3	55.5	48.5	41.1	33.2	25.2	17.4	9.9	4.5	1.1	0.6
100%	99%	98%	96%	93%	89%	85%	79%	73%	67%	60%	52%	44%	36%	27%	19%	11%	5%	1%	1%

**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°
93.0	92.4	91.2	89.3	86.4	82.9	78.8	73.8	68.3	62.3	55.5	48.5	41.1	33.2	25.2	17.4	9.9	4.5	1.1	0.6
100%	99%	98%	96%	93%	89%	85%	79%	73%	67%	60%	52%	44%	36%	27%	19%	11%	5%	1%	1%

**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°
93.0	92.4	91.2	89.2	86.4	82.9	78.8	73.8	68.2	62.2	55.6	48.5	41.0	33.1	25.1	17.2	9.9	4.6	1.3	0.7
100%	99%	98%	96%	93%	89%	85%	79%	73%	67%	60%	52%	44%	36%	27%	19%	11%	5%	1%	1%

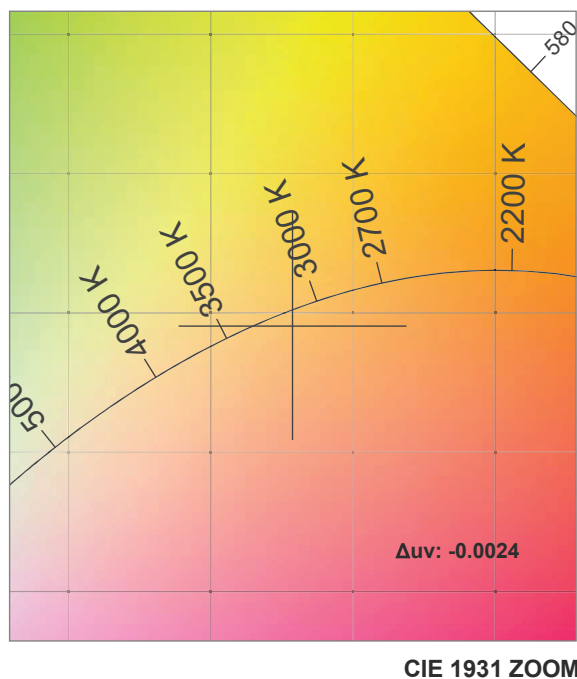
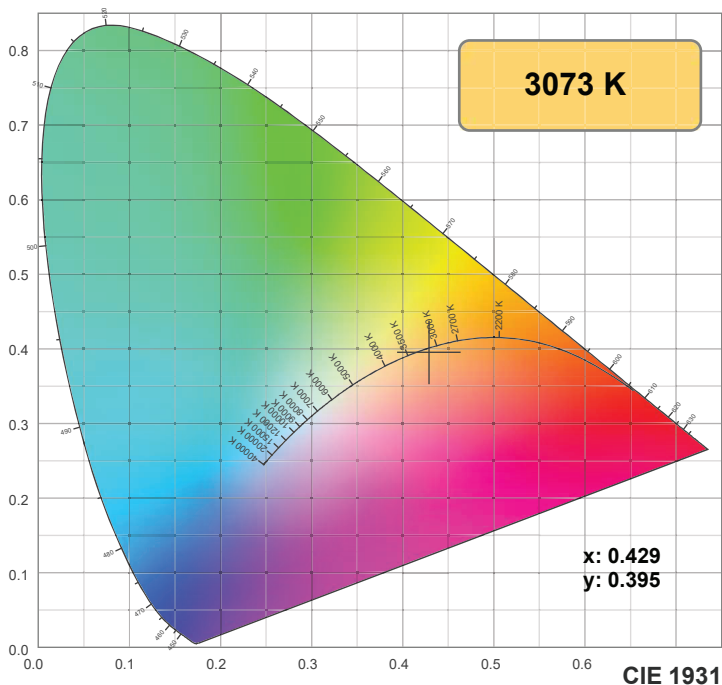
**Intensities in 270° c-plane**

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
93.0	92.4	91.2	89.2	86.4	82.9	78.8	73.8	68.2	62.2	55.6	48.5	41.0	33.1	25.1	17.2	9.9	4.6	1.3	0.7
100%	99%	98%	96%	93%	89%	85%	79%	73%	67%	60%	52%	44%	36%	27%	19%	11%	5%	1%	1%

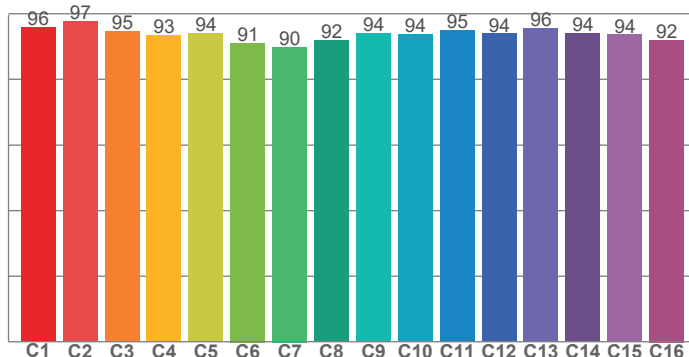
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
112.7°	160.8°	174.6°	77.3%	52.6%

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

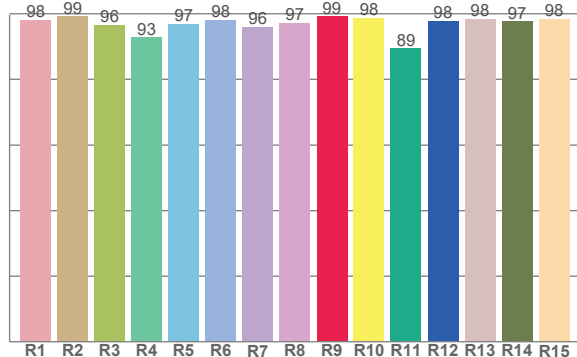
3000K



TM30: 94.0



CRI: 96.7 (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
97.9	99.0	96.3	92.6	96.6	98.0	95.9	97.0	99.0	98.5	89.3	97.7	98.4	97.5	98.3

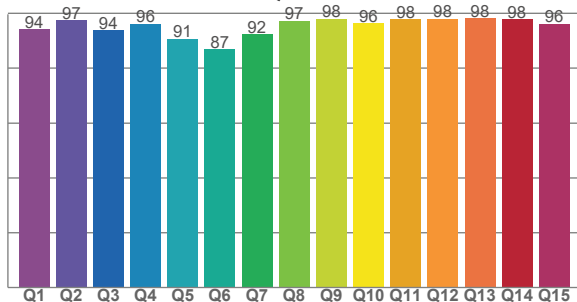
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.8	97.5	94.7	93.4	93.9	91.1	89.8	91.8	94.0	93.7	94.9	93.8	95.6	94.0	93.5	92.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94.0	97.4	93.6	96.1	90.6	86.9	92.1	97.1	97.8	96.2	97.8	97.9	98.0	97.8	96.0

CQS: 94.0



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
3073 K	96.7	99.0	94.0	105.3	94.0	0.429	0.395	0.249	0.344	-0.0024

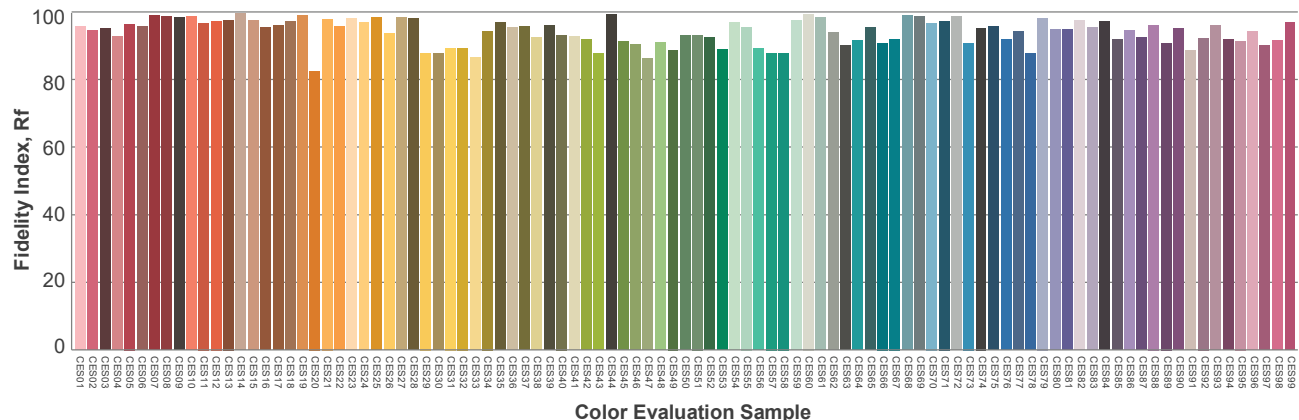
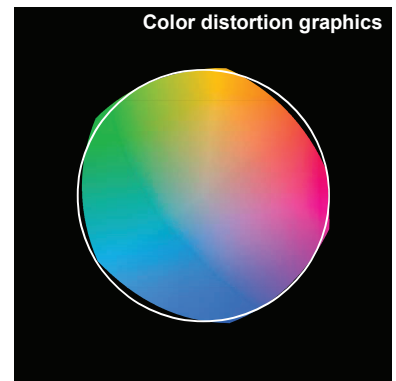
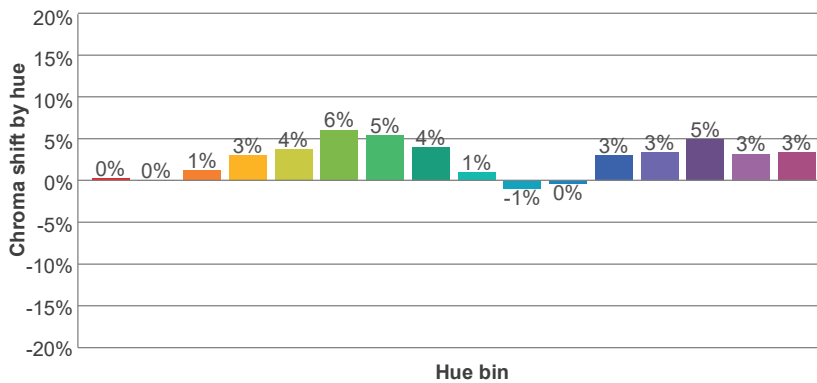
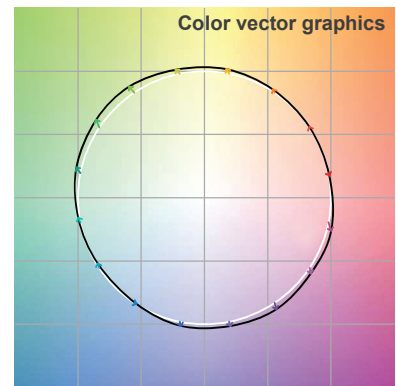
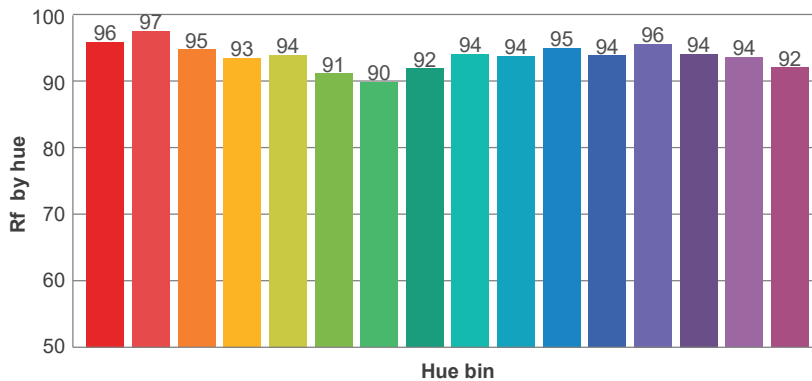
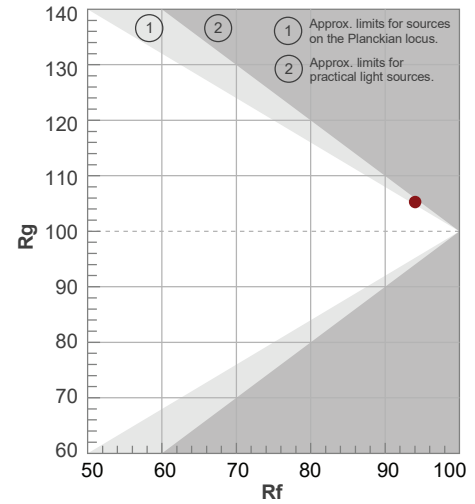
Note: specifications are representative of the diode type and not a particular tape light article.

3000K

**Rf 94.0**  
Fidelity index Rf

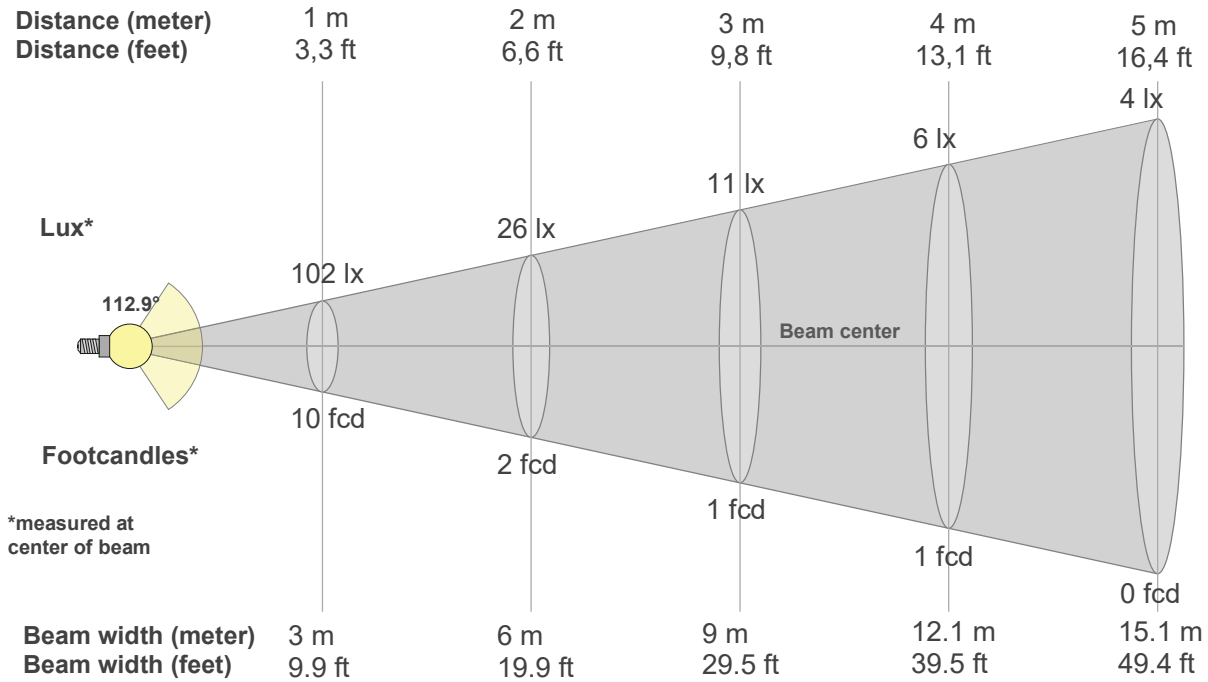
**Rg 105.3**  
Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	-2%
2	97	0%	0%
3	95	1%	3%
4	93	3%	3%
5	94	4%	3%
6	91	6%	1%
7	90	5%	-4%
8	92	4%	-4%
9	94	1%	-4%
10	94	-1%	-3%
11	95	0%	2%
12	94	3%	2%
13	96	3%	0%
14	94	5%	-2%
15	94	3%	-3%
16	92	3%	-6%



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

3000K



**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
102lx	26lx	11lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9.5fcd	2.4fcd	1.1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

**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°
102	102	100	98	95	91	87	82	75	69	62	54	45	37	28	19	11	5	2	1
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	60%	52%	44%	36%	27%	19%	11%	5%	2%	1%

**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°
102	102	100	98	95	91	87	82	75	69	62	54	45	37	28	19	11	5	2	1
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	60%	52%	44%	36%	27%	19%	11%	5%	2%	1%

**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°
102	102	100	98	95	91	87	81	75	69	61	54	45	37	28	19	11	6	1	1
100%	99%	98%	96%	93%	89%	85%	80%	74%	67%	60%	52%	44%	36%	27%	19%	11%	5%	1%	1%

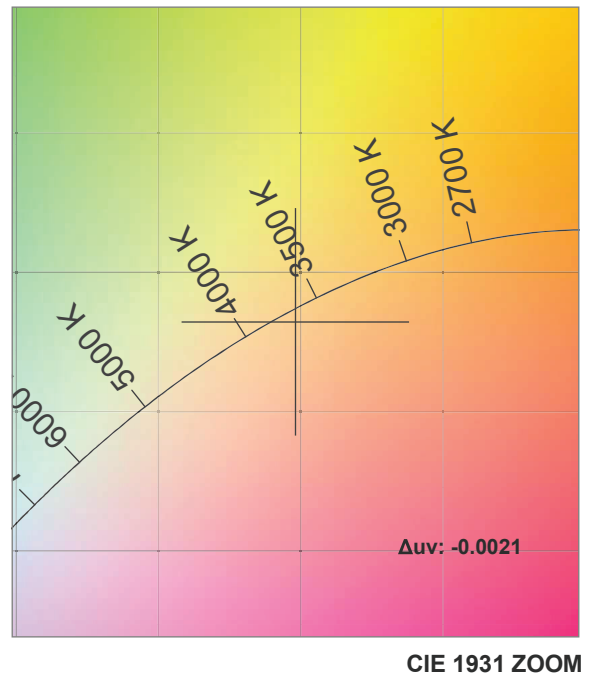
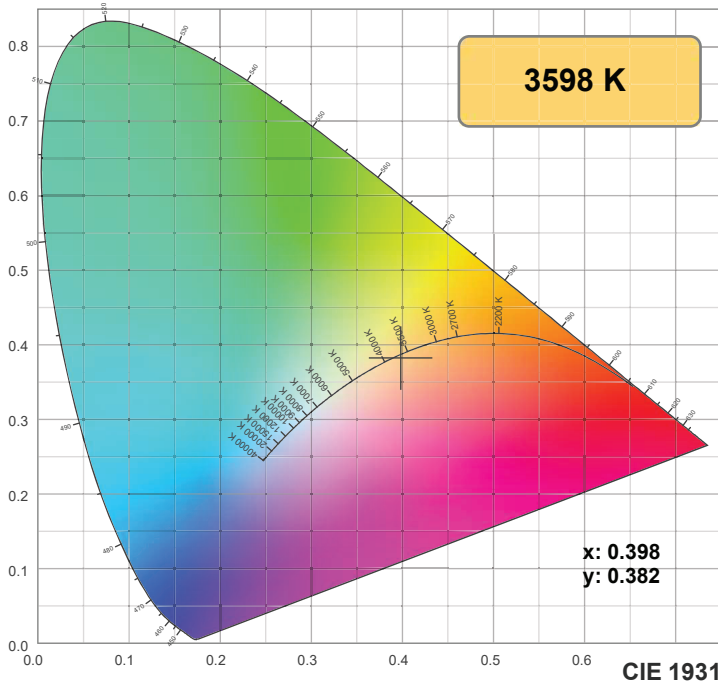
**Intensities in 270° c-plane**

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
102	102	100	98	95	91	87	81	75	69	61	54	45	37	28	19	11	6	1	1
100%	99%	98%	96%	93%	89%	85%	80%	74%	67%	60%	52%	44%	36%	27%	19%	11%	5%	1%	1%

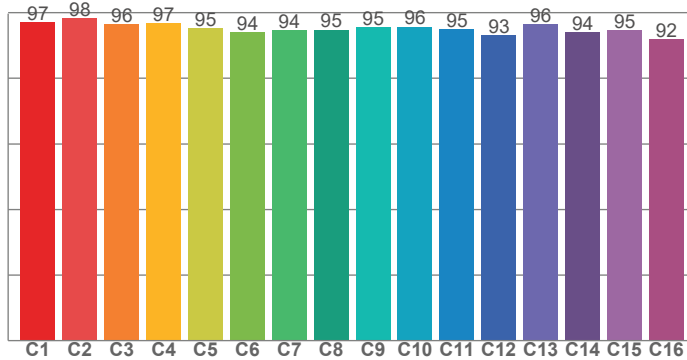
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
112.9°	161.3°	175.1°	77.2%	52.4%

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

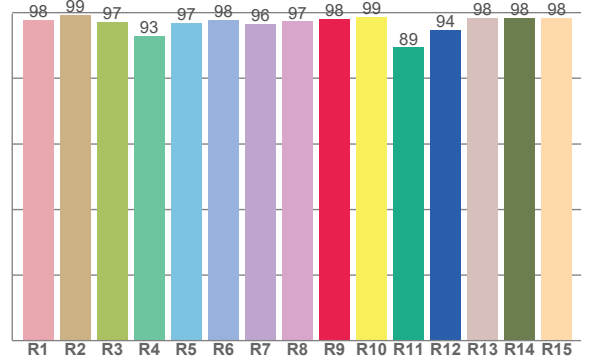
3500K



TM30: 95.3



CRI: 96.9 (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
97.7	99.2	97.1	92.8	96.7	97.7	96.4	97.2	98.0	98.5	89.3	94.5	98.3	98.2	98.4

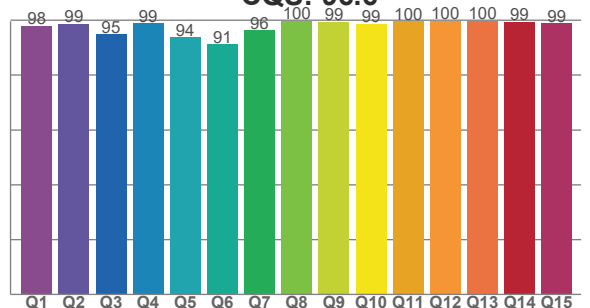
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
96.9	98.2	96.4	96.7	95.0	93.8	94.4	94.7	95.4	95.6	94.9	93.0	96.5	94.0	94.6	91.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97.9	98.7	94.7	98.9	93.6	91.0	96.3	99.8	99.3	98.7	99.5	99.8	99.8	99.3	98.9

CQS: 96.6



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
3598 K	96.9	98.0	95.3	104.2	96.6	0.398	0.382	0.235	0.338	-0.0021

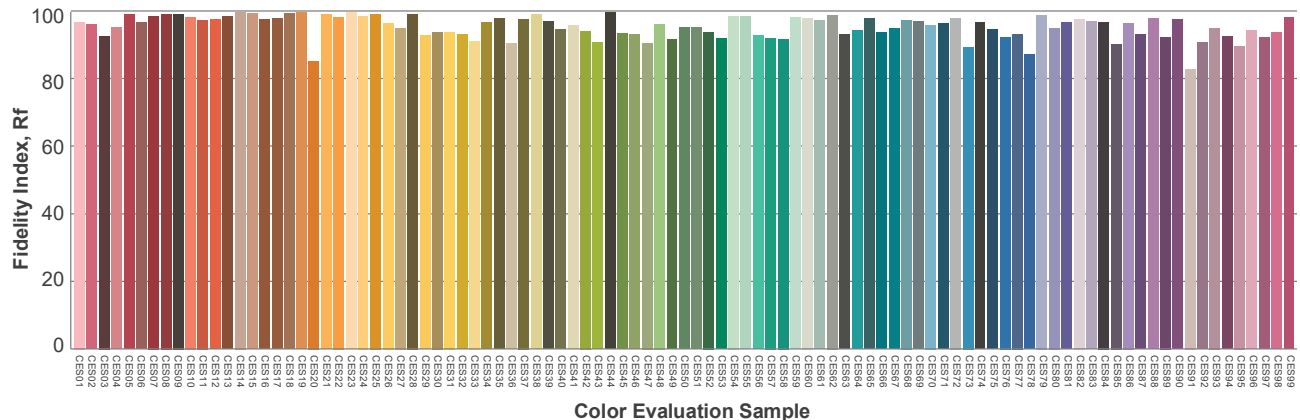
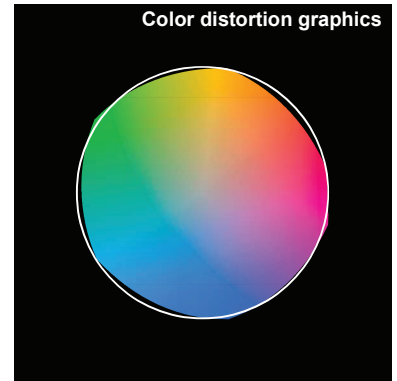
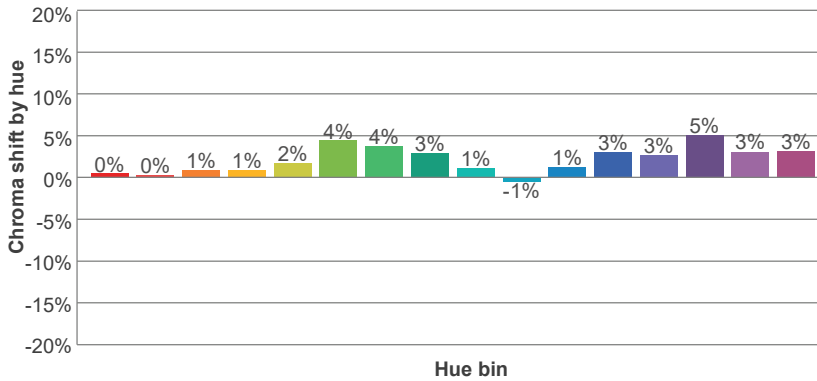
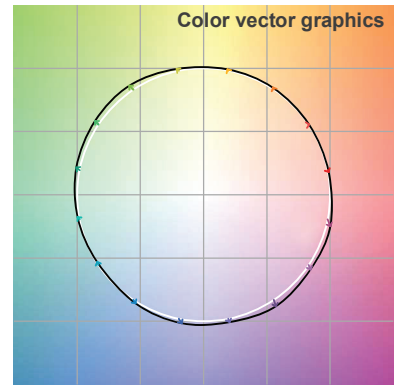
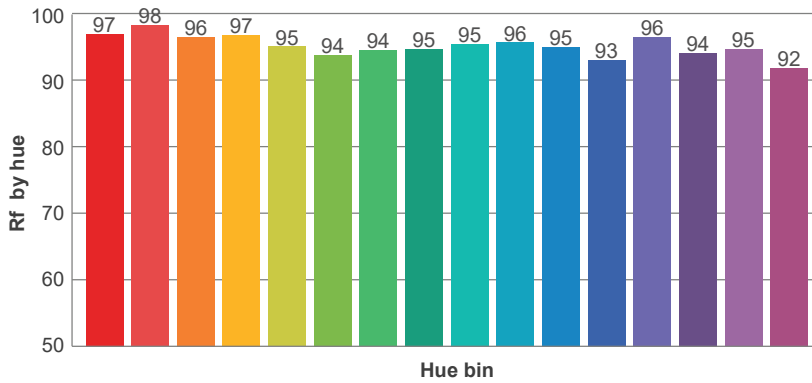
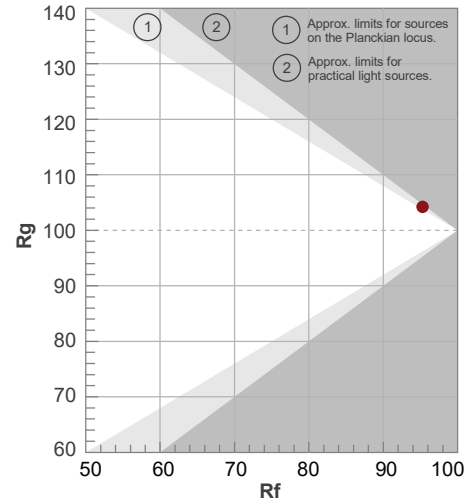
Note: specifications are representative of the diode type and not a particular tape light article.

3500K

**Rf 95.3**  
Fidelity index Rf

**Rg 104.2**  
Gamut index Rg

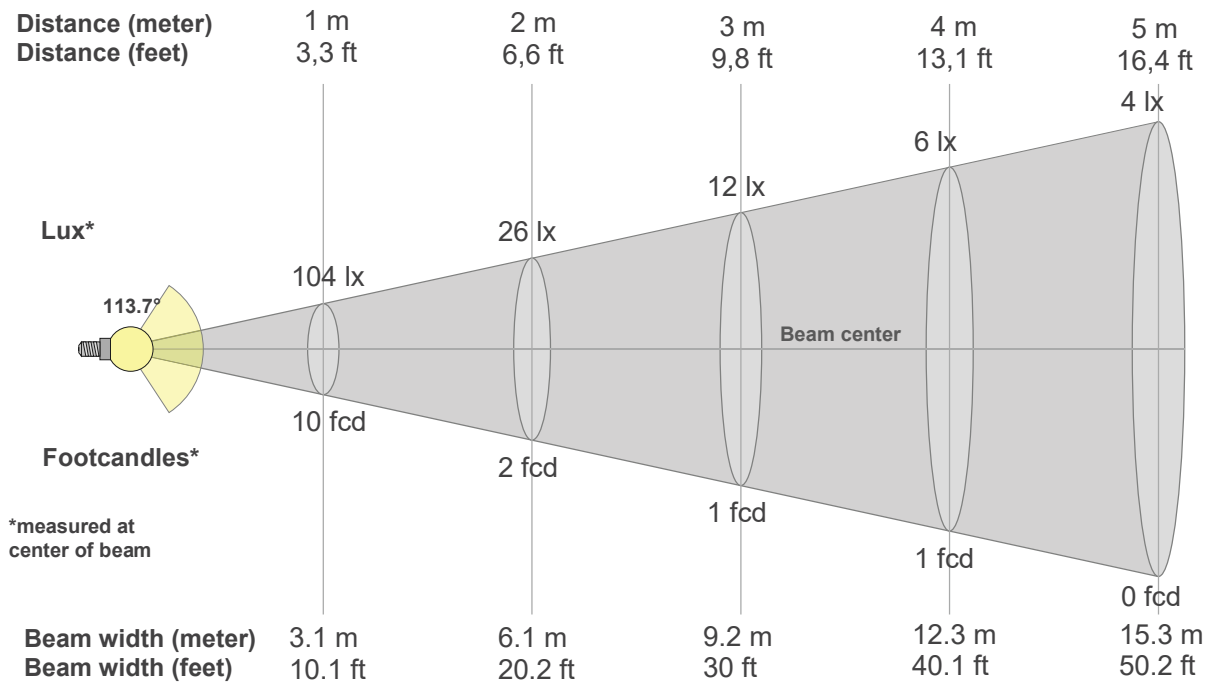
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	0%	-2%
2	98	0%	0%
3	96	1%	2%
4	97	1%	1%
5	95	2%	2%
6	94	4%	1%
7	94	4%	-1%
8	95	3%	-1%
9	95	1%	-2%
10	96	-1%	-3%
11	95	1%	3%
12	93	3%	3%
13	96	3%	0%
14	94	5%	-1%
15	95	3%	-2%
16	92	3%	-5%



Color Evaluation Sample

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

3500K



**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
104lx	26lx	12lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9.6fcd	2.4fcd	1.1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

**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°
104	103	102	100	97	93	89	83	77	71	63	55	47	38	29	19	11	5	1	1
100%	100%	99%	96%	93%	90%	85%	80%	74%	68%	61%	53%	45%	36%	28%	19%	11%	5%	1%	1%

**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°
104	103	102	100	97	93	89	83	77	71	63	55	47	38	29	19	11	5	1	1
100%	100%	99%	96%	93%	90%	85%	80%	74%	68%	61%	53%	45%	36%	28%	19%	11%	5%	1%	1%

**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°
104	104	102	100	97	93	88	83	77	70	63	55	47	38	29	21	13	5	2	1
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	61%	53%	45%	37%	28%	20%	12%	5%	2%	1%

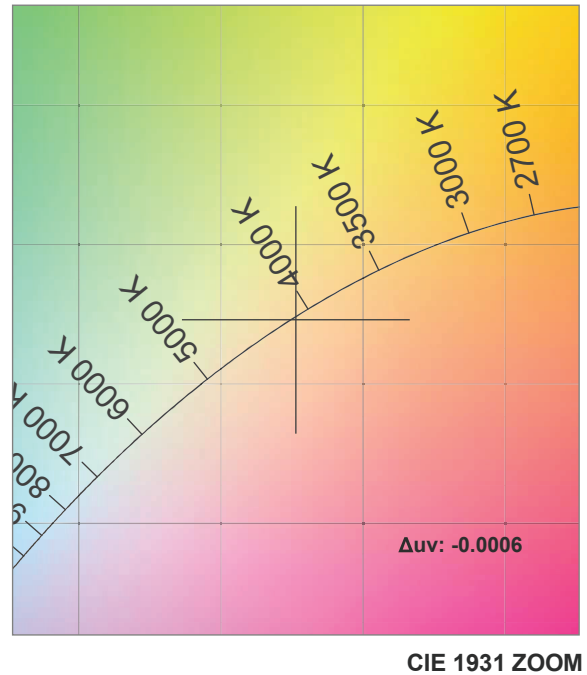
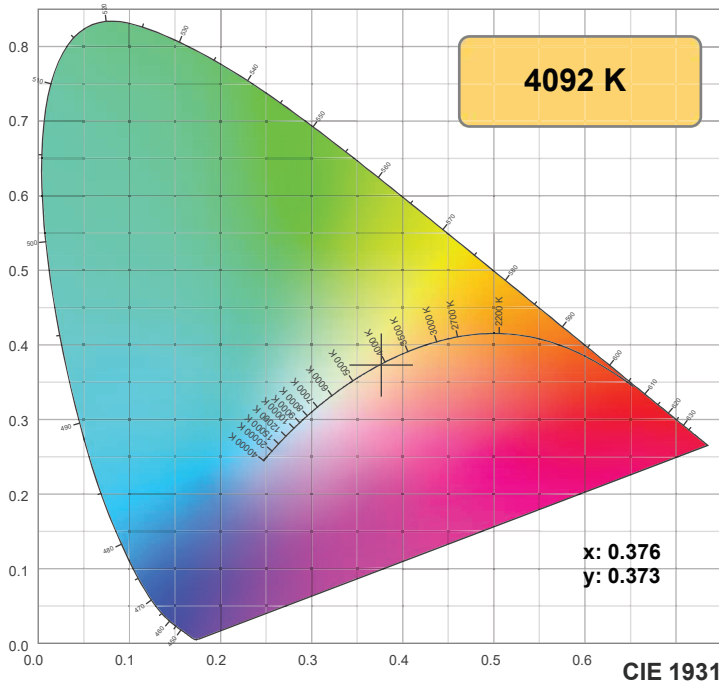
**Intensities in 270° c-plane**

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
104	104	102	100	97	93	88	83	77	70	63	55	47	38	29	21	13	5	2	1
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	61%	53%	45%	37%	28%	20%	12%	5%	2%	1%

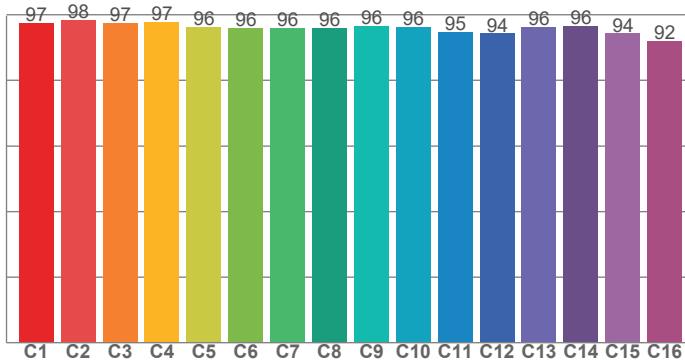
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113.7°	162.1°	177.4°	77.0%	52.2%

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

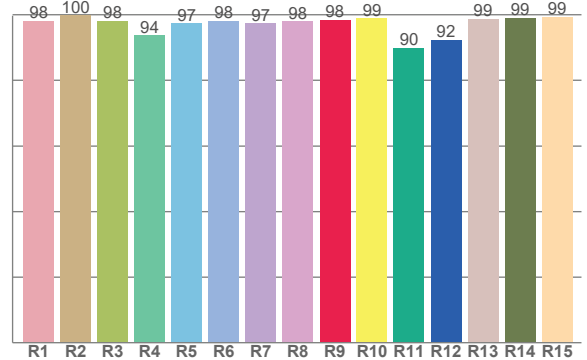
4200K



TM30: 95.9



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
98.0	99.6	97.9	93.6	97.1	98.0	97.1	97.8	98.3	98.7	92.2	98.6	98.7	99.1	

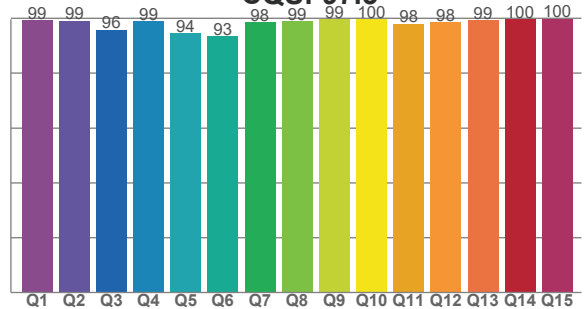
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97.2	98.2	97.3	97.5	96.1	95.7	95.8	95.8	96.4	96.1	94.7	94.1	96.1	96.3	94.1	91.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
99.2	99.1	95.7	98.9	94.3	93.2	98.5	98.7	99.5	99.6	97.9	98.3	99.2	99.5	99.7

CQS: 97.3



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
4092 K	97.4	98.3	95.9	103.2	97.3	0.376	0.373	0.224	0.333	-0.0006



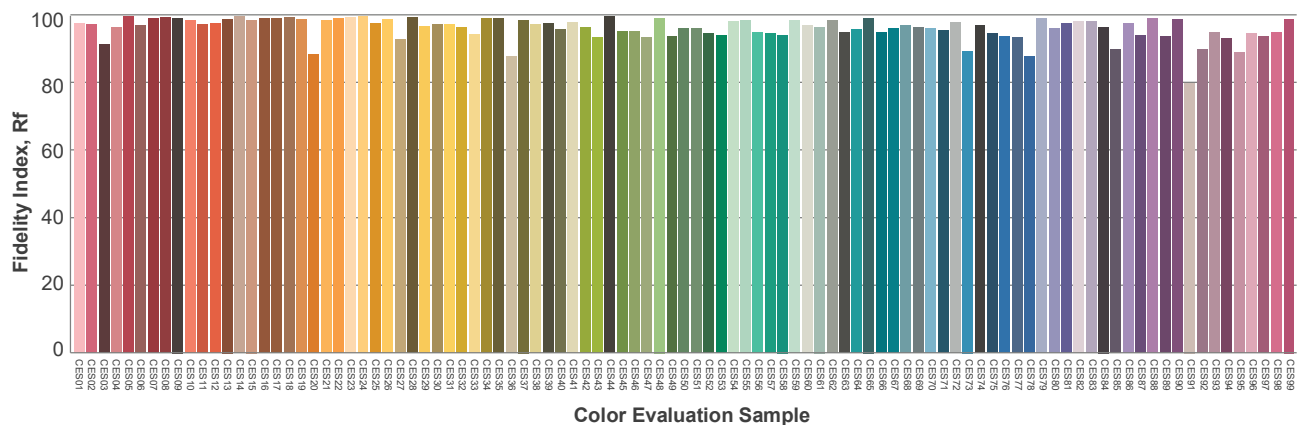
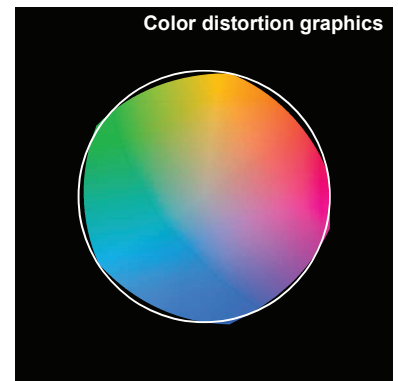
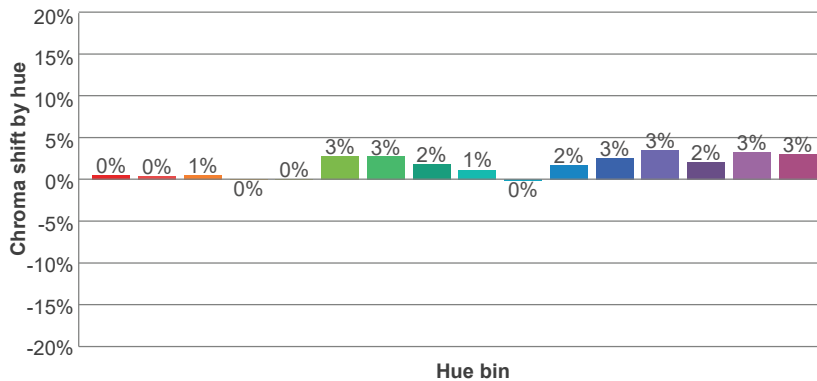
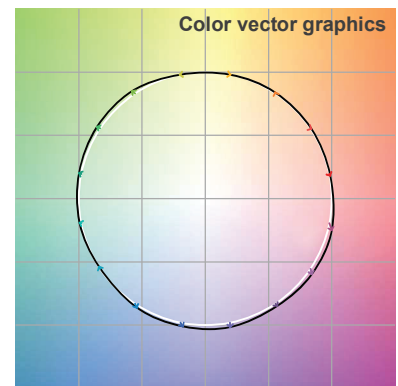
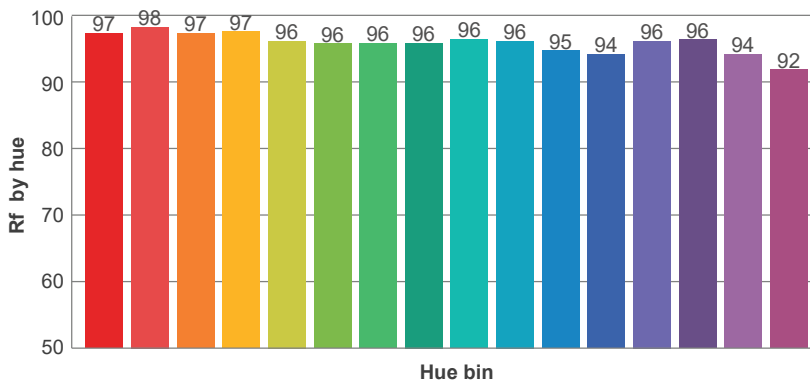
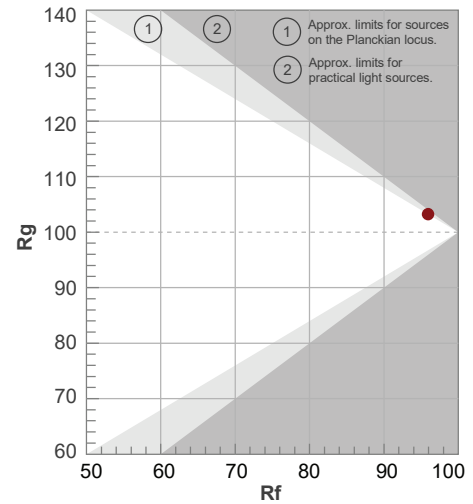
Note: specifications are representative of the diode type and not a particular tape light article.

4200K

**Rf 95.9**  
Fidelity index Rf

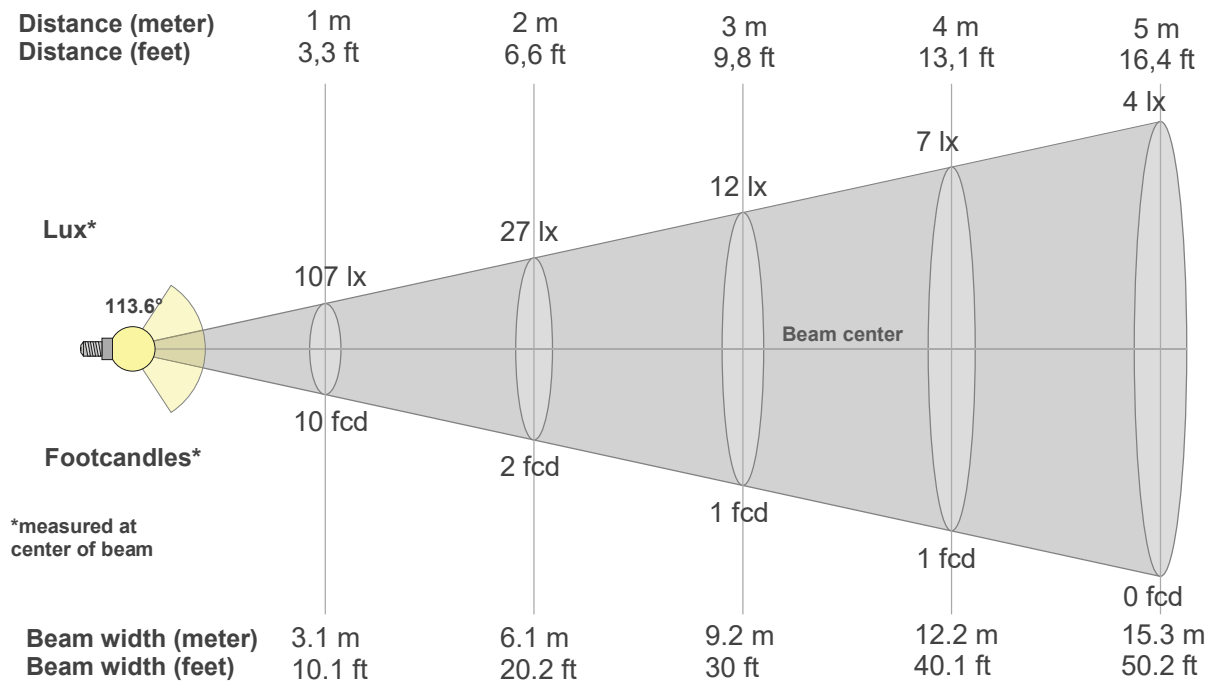
**Rg 103.2**  
Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	97	0%	-1%
2	98	0%	-1%
3	97	1%	1%
4	97	0%	0%
5	96	0%	1%
6	96	3%	1%
7	96	3%	0%
8	96	2%	0%
9	96	1%	-1%
10	96	0%	-2%
11	95	2%	3%
12	94	3%	2%
13	96	3%	0%
14	96	2%	0%
15	94	3%	-3%
16	92	3%	-5%



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

4200K



**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
107lx	27lx	12lx	7lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9.9fcd	2.5fcd	1.1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

**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°
107	107	105	103	100	96	91	86	80	73	65	57	48	39	30	20	12	5	1	1
100%	100%	98%	96%	93%	90%	85%	80%	74%	68%	61%	53%	45%	36%	28%	19%	11%	5%	1%	1%

**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°
107	107	105	103	100	96	91	86	80	73	65	57	48	39	30	20	12	5	1	1
100%	100%	98%	96%	93%	90%	85%	80%	74%	68%	61%	53%	45%	36%	28%	19%	11%	5%	1%	1%

**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°
107	107	105	103	100	96	91	86	79	72	65	57	48	39	30	21	12	5	2	1
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	61%	53%	45%	36%	28%	19%	12%	5%	2%	1%

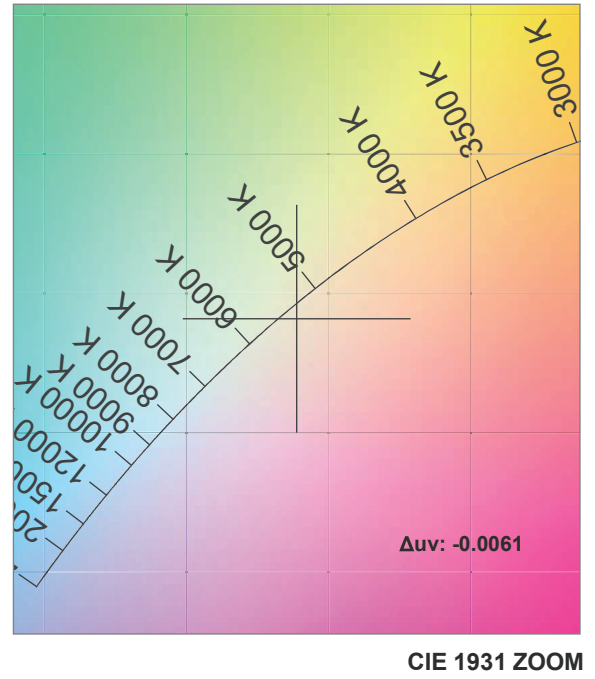
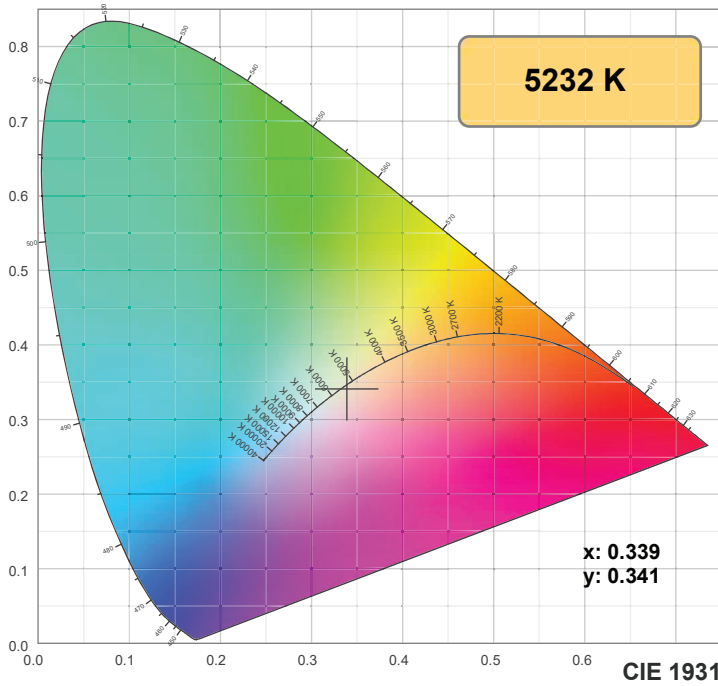
**Intensities in 270° c-plane**

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
107	107	105	103	100	96	91	86	79	72	65	57	48	39	30	21	12	5	2	1
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	61%	53%	45%	36%	28%	19%	12%	5%	2%	1%

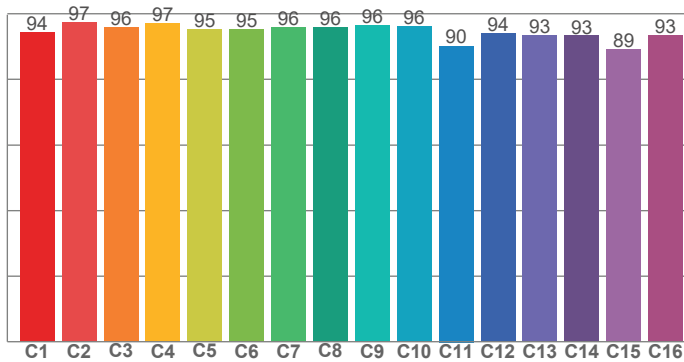
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113.6°	161.8°	176.8°	77.1%	52.2%

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

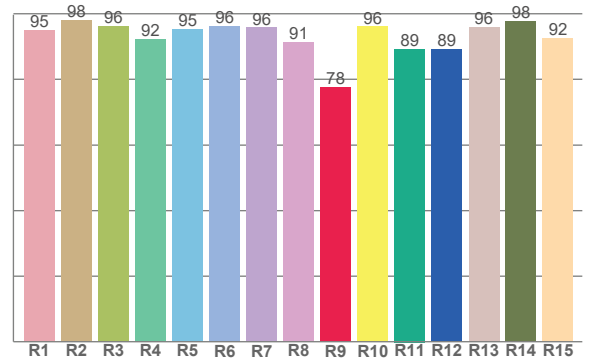
5000K



**TM30: 94.6**



**CRI: 94.9 (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
95.0	97.9	96.0	92.1	95.3	96.1	95.7	91.2	77.6	96.0	89.2	89.1	95.8	97.7	92.4

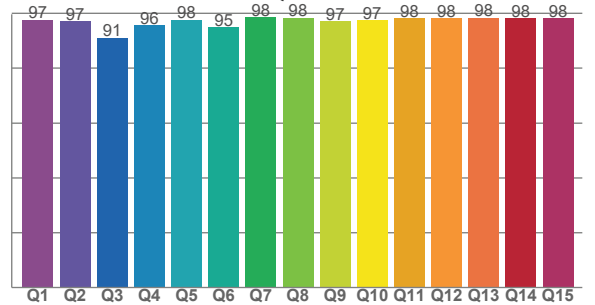
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.3	97.3	95.8	96.9	95.1	95.2	95.9	95.9	96.3	96.2	90.1	94.0	93.4	93.2	89.1	93.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97.5	97.0	90.9	95.6	97.5	94.8	98.5	98.3	96.9	97.3	98.0	98.0	98.3	98.1	98.1

**CQS: 96.4**



**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
5232 K	94.9	77.6	94.6	104.7	96.4	0.339	0.341	0.211	0.319	-0.0061

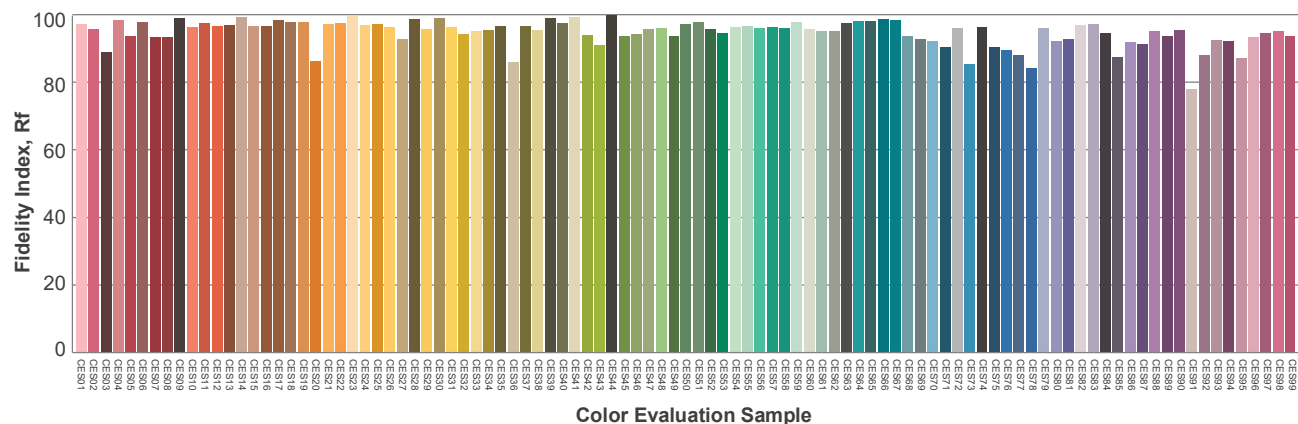
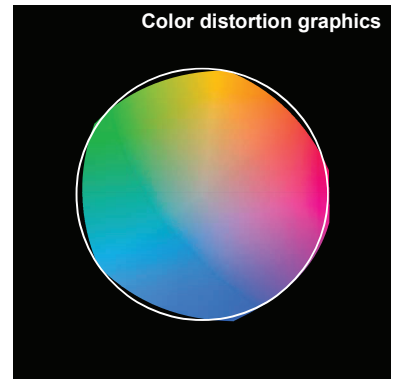
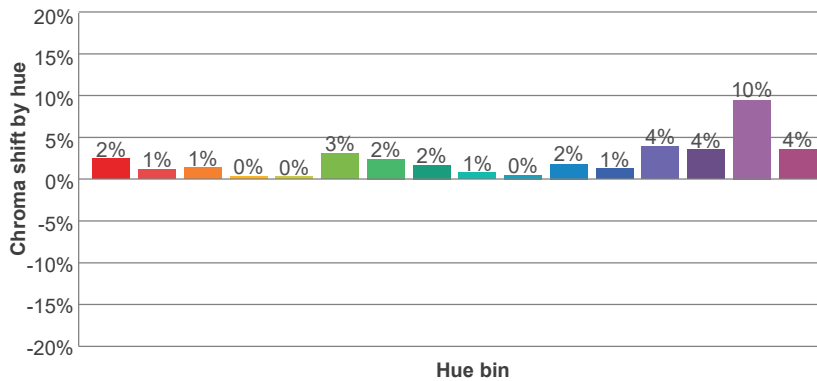
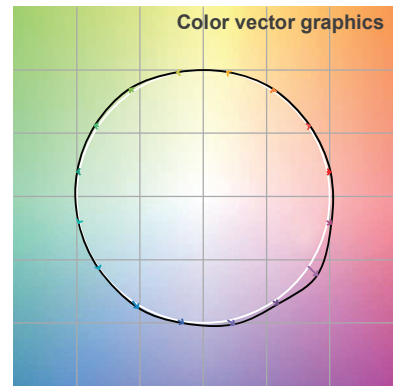
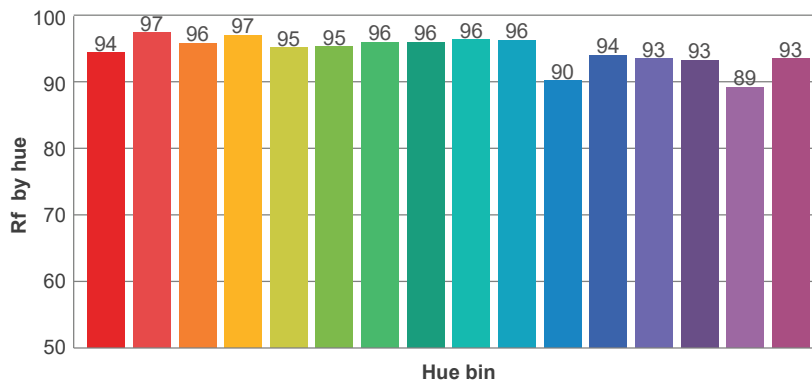
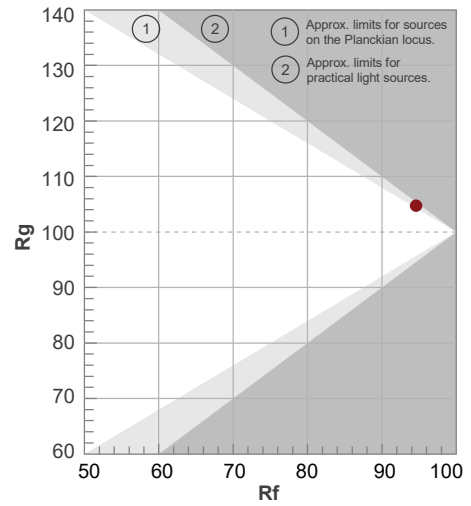
Note: specifications are representative of the diode type and not a particular tape light article.

5000K

**Rf 94.6**  
Fidelity index Rf

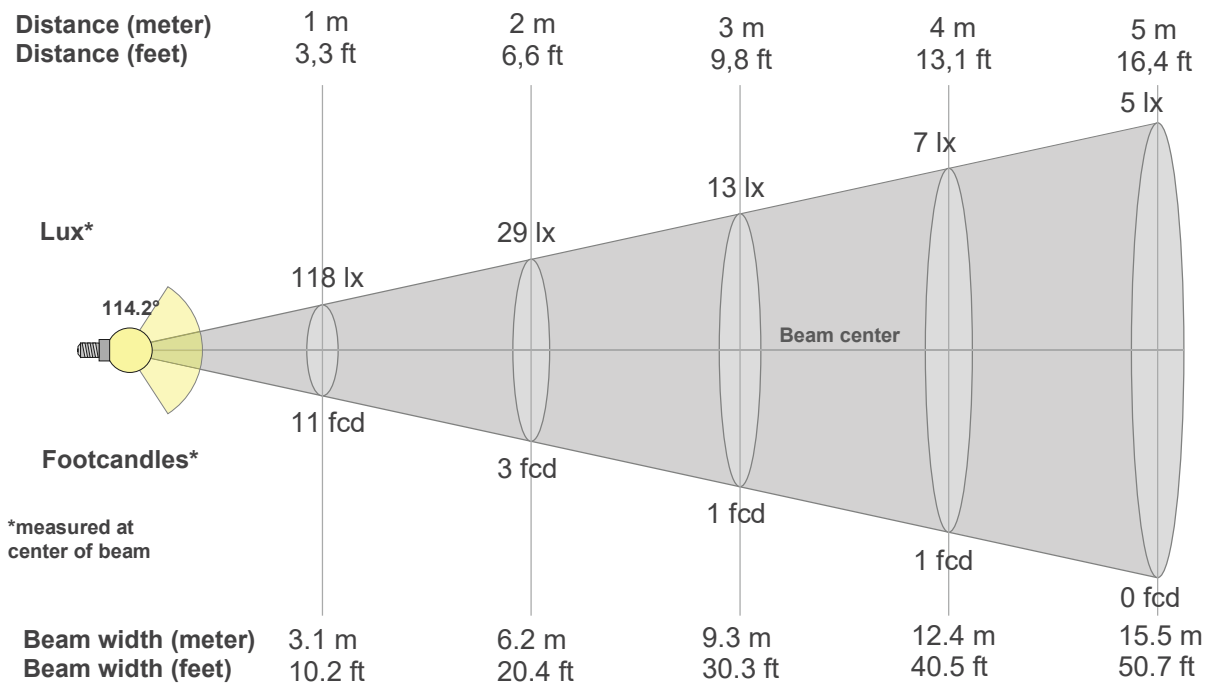
**Rg 104.7**  
Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	2%	-1%
2	97	1%	0%
3	96	1%	1%
4	97	0%	1%
5	95	0%	1%
6	95	3%	1%
7	96	2%	1%
8	96	2%	0%
9	96	1%	1%
10	96	0%	2%
11	90	2%	6%
12	94	1%	4%
13	93	4%	4%
14	93	4%	2%
15	89	10%	-2%
16	93	4%	-1%



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

5000K



**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
118lx	29lx	13lx	7lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
11fcd	2.7fcd	1.2fcd	0.7fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

**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°
118	118	116	114	111	106	101	95	88	80	72	63	53	43	33	22	13	5	2	1
100%	100%	98%	96%	94%	90%	86%	81%	75%	68%	61%	53%	45%	37%	28%	19%	11%	4%	2%	1%

**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°
118	118	116	114	111	106	101	95	88	80	72	63	53	43	33	22	13	5	2	1
100%	100%	98%	96%	94%	90%	86%	81%	75%	68%	61%	53%	45%	37%	28%	19%	11%	4%	2%	1%

**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°
118	117	116	113	110	106	101	95	88	80	72	63	53	43	33	23	14	7	1	1
100%	99%	98%	96%	93%	90%	85%	80%	75%	68%	61%	53%	45%	37%	28%	19%	12%	6%	1%	1%

**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°
118	117	116	113	110	106	101	95	88	80	72	63	53	43	33	23	14	7	1	1
100%	99%	98%	96%	93%	90%	85%	80%	75%	68%	61%	53%	45%	37%	28%	19%	12%	6%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114.2°	161.8°	176.5°	77.1%	52.2%