

ALLOY LED® Specifications

RazorLine™ Neon 300 LED Tape Light

Size compared to a dime
(0.71 in. wide)



←→
Cut point every 0.79 in.

0.24 in. wide

RazorLine Neon 300 tape light offers a high output light with an ultra-narrow form factor. The integrated diffuser guarantees a hot-spot-free solution for your application.

- Ultra-narrow diffused accenting or task lighting
- Medium output

TECHNICAL INFORMATION

Stocked Color Temperature	2700K, 3000K, 3500K, 4200K, 5000K
Power Consumption Per Foot	4.39 Watts/182.9mA
Input Voltage	24V DC
Diodes per foot	91
Diode Spacing	0.13 inches
Tape Height	0.12 inches
Beam Angle	120°
Field Cuttable (UL 2108)	Every 0.79 inches
Max Run Length	10 ft.

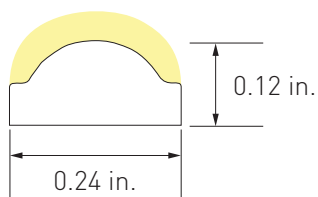
Dimmable	Yes
Diode Type	2216 Epistar
Mounting	Transparent Adhesive Tape
Operating Temperature	-13° F to 140° F
Ambient Temperature	-40° F to 176° F
Environment	Indoor, Dry/Damp, IP54
Spool Lengths*	10 ft.
Certifications	UL Listed, UL 2108
Warranty	6 Year Limited

*Each spool includes UL 2464 12 in., 22 AWG tinned lead wires at both ends of the tape light.
Please note: Tape light is only compatible with a maximum of 22 AWG wires.

PRODUCT INFORMATION

10 ft. spool Item Number	Voltage	Color Temperature	CRI	R9 Values	R13 Values	Lumens / foot (Max Output)
AL-01-40-2401	24V DC	2700K	95.7	96.0	95.5	291
AL-01-40-2402	24V DC	3000K	96.6	94.8	96.7	328
AL-01-40-2403	24V DC	4200K	98.2	98.1	97.8	319
AL-01-40-2404	24V DC	5000K	97.8	98.8	98.2	316
AL-01-40-2408	24V DC	3500K	96.5	95.4	95.7	309

PRODUCT DIMENSIONS



VOLTAGE DROP GUIDANCE CHART

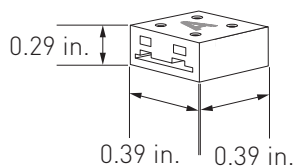
Standard Non-XT 24V Voltage Drop and Wire Length Distance Chart (3% Drop or 24V)

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)

AmpChamp: 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 AmpChamp

AL-01-40-9900
AL-01-40-9900-10 (10-pack)
AL-01-40-9900-100 (100-pack)



Surface-Mount Channel - Aluminum Finish

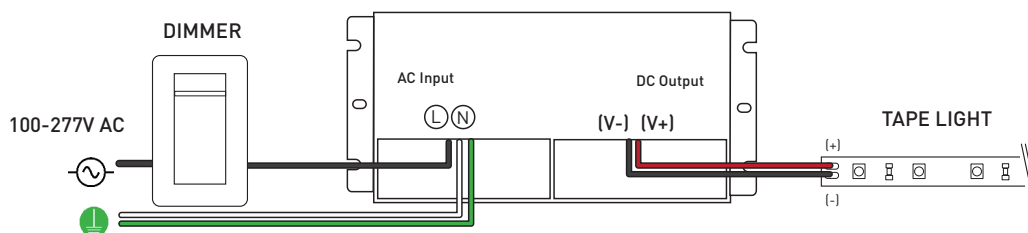
AL-01-40-0011-AL (4 ft.)
AL-01-40-0015-AL (7 ft.)

ALLOY LED® Specifications

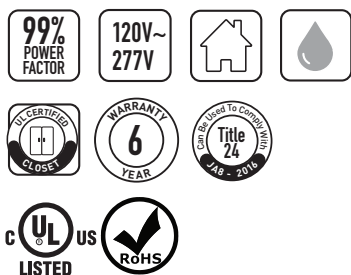
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



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 Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class 2
AL-98-10-24030	24V DC	30W	Yes (NEMA 4X)	10%	6.50 x 3.72 x 1.02 in.	Yes
AL-98-10-24060	24V DC	60W	Yes (NEMA 4X)	10%	7.40 x 3.72 x 1.02 in.	Yes
AL-98-10-24096	24V DC	96W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	Yes
AL-98-10-24150	24V DC	150W	Yes (NEMA 4X)	10%	10.24 x 4.13 x 1.77 in.	No
AL-98-10-24200	24V DC	200W	Yes (NEMA 4X)	10%	10.24 x 4.13 x 1.77 in.	No
AL-98-10-24300	24V DC	300W	Yes (NEMA 4X)	10%	10.94 x 4.33 x 1.77 in.	No

Class 2 Compliant Multi-Tap Models

Item Number	Output Voltage	Wattage	Wet Location	Minimum Load	Dimensions (L x W x H)	Class 2
AL-98-10-24192-MT	24V DC	192W	Yes (NEMA 4X)	10%	10.94 x 4.33 x 1.77 in.	Yes
AL-98-10-24288-MT	24V DC	288W	Yes (NEMA 4X)	10%	11.85 x 4.33 x 1.77 in.	Yes

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

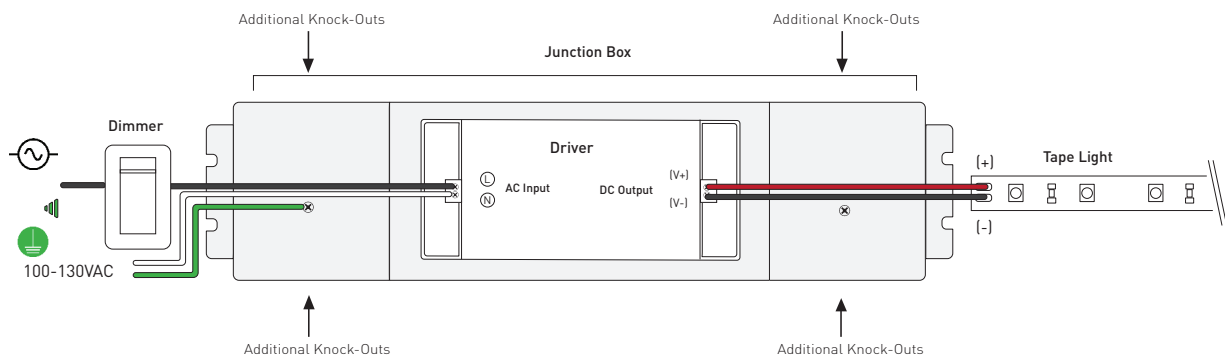
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with ELV, MLV, and TRIAC dimmers.



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 Number	Output Voltage	Wattage	Minimum Load	Dimensions (Junction box) (L x W x H)	Class 2
AL-98-03-24024-NM	24V DC	24W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24048-NM	24V DC	48W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24060-NM	24V DC	60W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24080-NM	24V DC	80W	0%	14.96 x 3.03 x 2.24 in.	Yes
AL-98-03-24096-NM	24V DC	96W	0%	14.96 x 3.03 x 2.24 in.	Yes
AL-98-03-24150-NM	24V DC	150W	0%	15.98 x 3.43 x 2.36 in.	No
AL-98-03-24200-NM	24V DC	200W	0%	15.98 x 3.43 x 2.36 in.	No

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 Number	Output	Wattage	Min. Load	Class 2
AL-98-07-24040	24V DC	40W	N/A	Yes
AL-98-07-24040-3WIRE	24V DC	40W	N/A	Yes
AL-98-07-24096-3WIRE	24V DC	96W	N/A	Yes

Lutron® Controls

Item Number	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

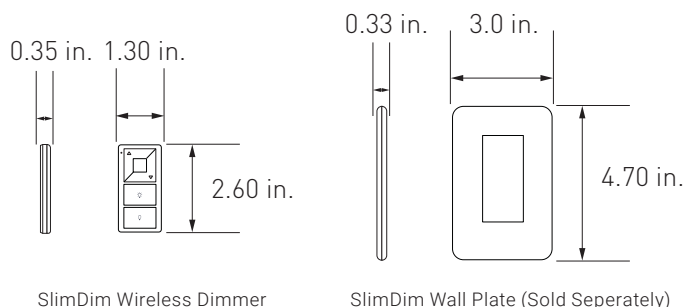
DIMMING ACCESSORIES (SOLD SEPARATELY)

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)



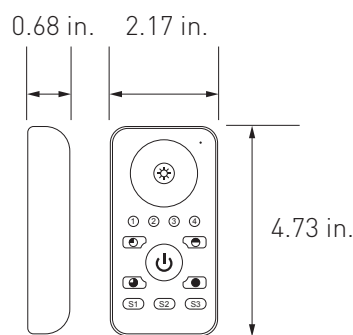
SlimDim Wireless Dimmer

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)

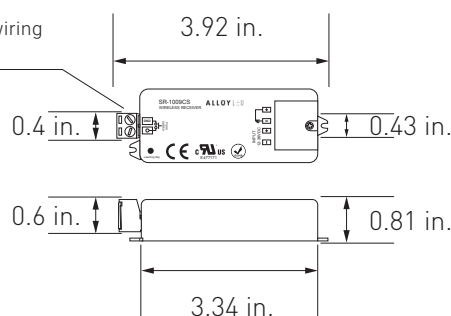


Single Channel Wireless Receiver

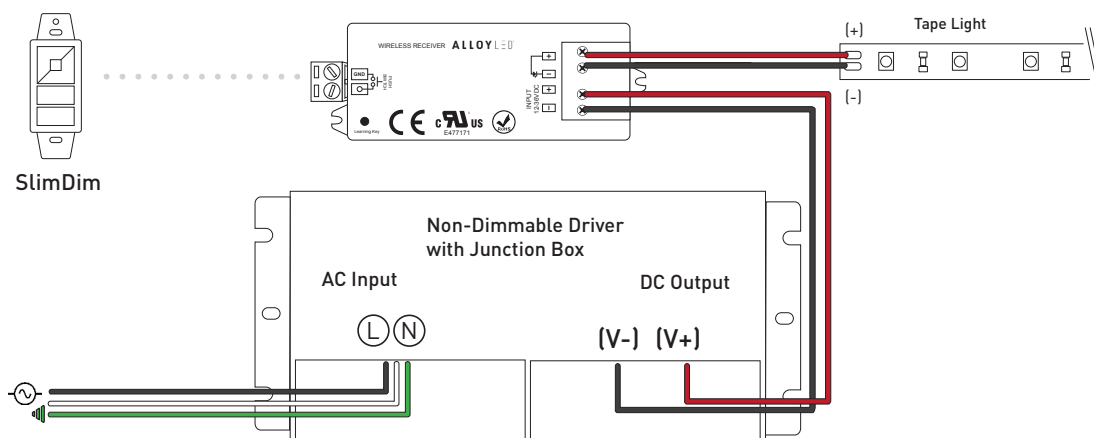
Pair with the Remote Control Dimmer Switch or the SlimDim Wireless Dimmer to dim PrimaLine tape lights. Use one remote to make independent lighting zones with multiple receivers with certain controllers.

AL-70-01-0002	Single Channel Wireless Receiver
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Terminal for hardwiring on/off switch

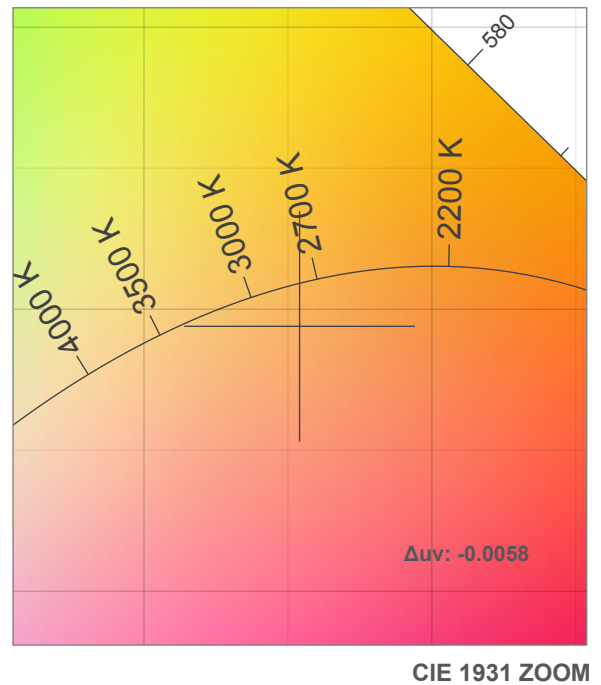
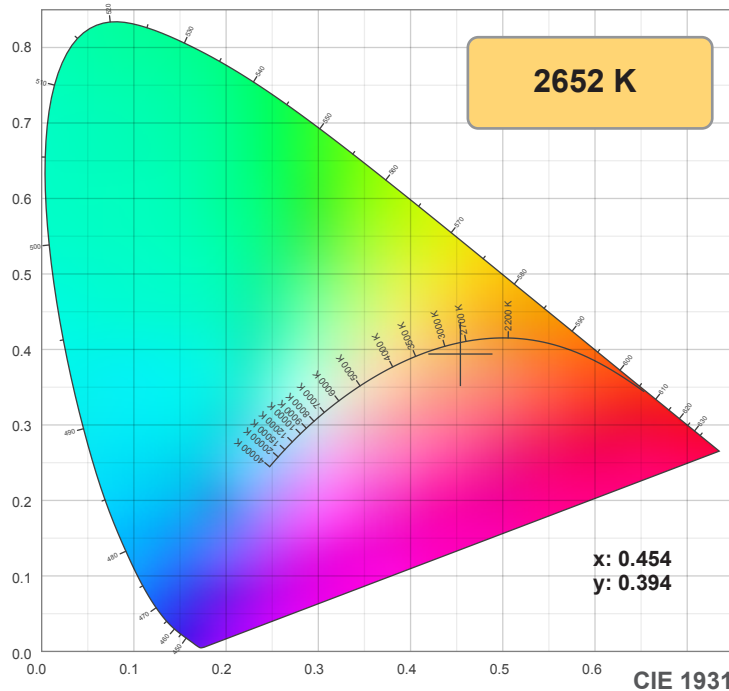


WIRING DIAGRAM

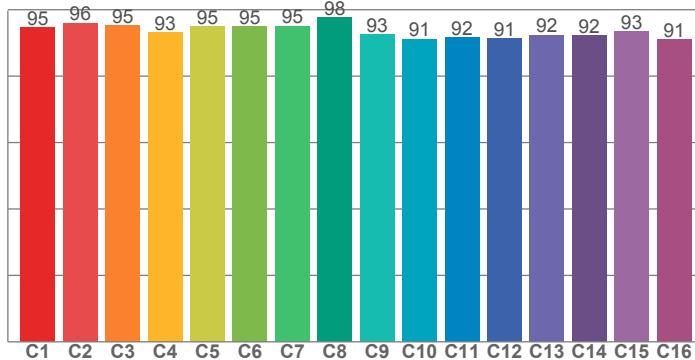


Note: specifications are representative of the diode type and not a particular tape light article.

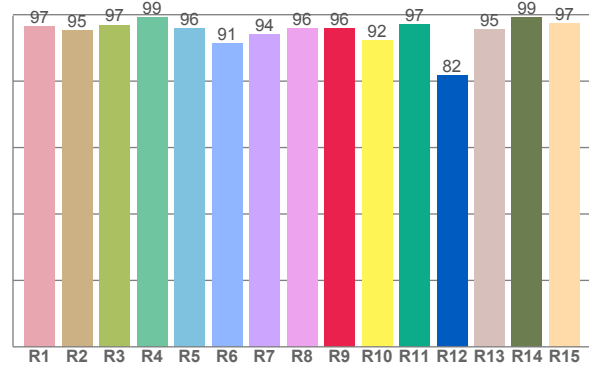
2700K



TM30: 93.5



CRI: 95.7 (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
96.6	95.3	96.9	99.1	95.9	91.4	94.2	96.0	96.0	92.2	97.1	81.7	95.5	99.3	97.4

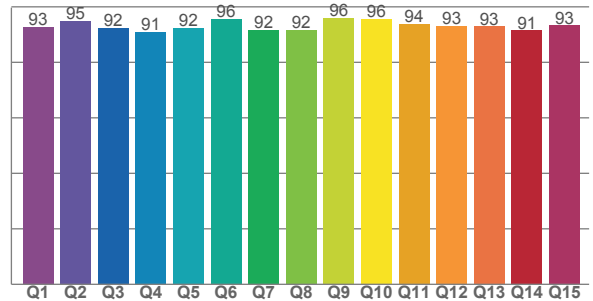
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.7	96.0	95.2	93.1	95.0	95.0	95.1	97.7	92.5	91.1	91.6	91.2	92.4	92.1	93.5	90.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.7	94.8	92.4	90.9	92.4	95.6	91.5	91.6	96.1	95.6	93.9	93.0	92.9	91.4	93.3

CQS: 92.9



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
2652 K	95.7	96.0	93.5	101.4	92.9	0.454	0.394	0.266	0.347	-0.0058

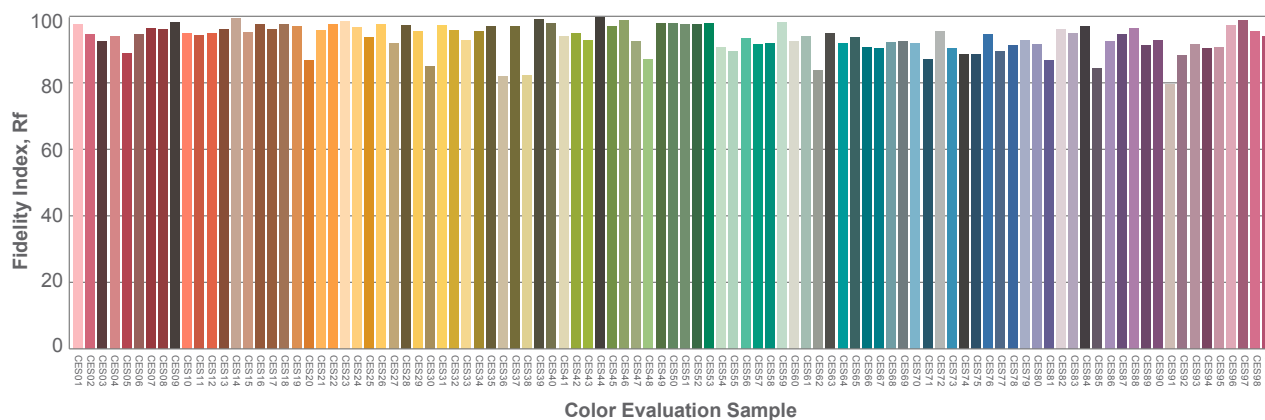
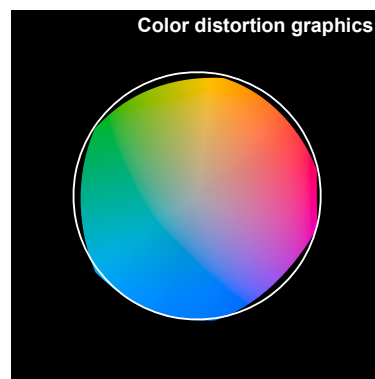
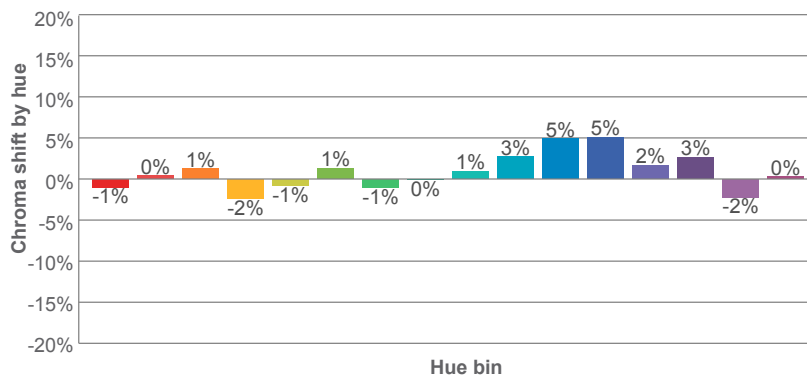
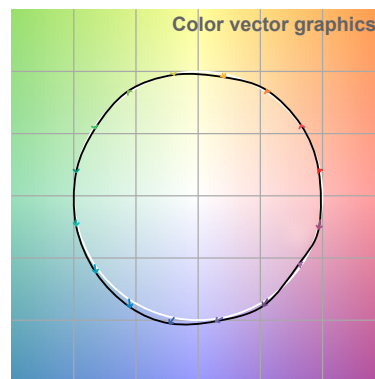
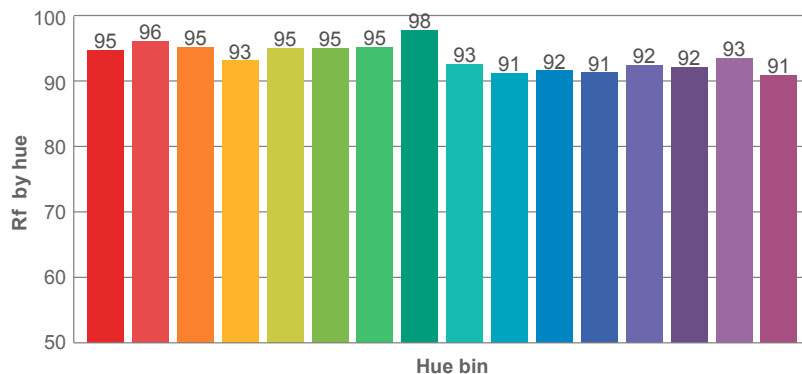
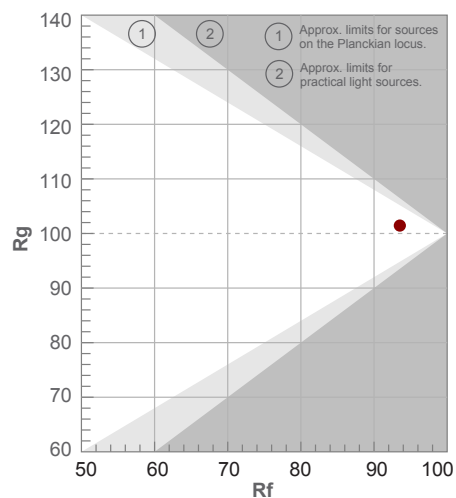
Note: specifications are representative of the diode type and not a particular tape light article.

2700K

Rf 93.5
Fidelity index Rf

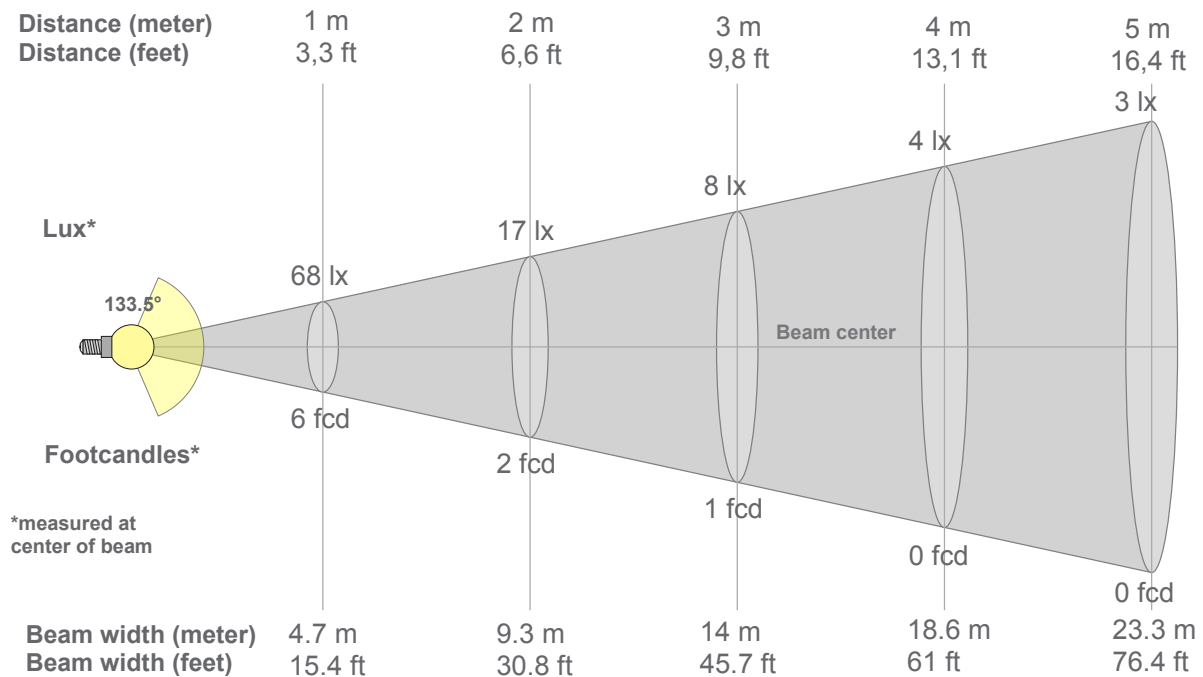
Rg 101.4
Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	2%
2	96	0%	1%
3	95	1%	1%
4	93	-2%	-2%
5	95	-1%	0%
6	95	1%	0%
7	95	-1%	1%
8	98	0%	0%
9	93	1%	4%
10	91	3%	6%
11	92	5%	4%
12	91	5%	-2%
13	92	2%	-6%
14	92	3%	-6%
15	93	-2%	0%
16	91	0%	-7%



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
68lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
6.3fcd	1.6fcd	0.7fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
67.6	66.9	64.8	61.4	56.3	50.0	43.2	36.4	30.1	23.9	18.3	13.3	8.9	4.8	2.6	1.2	0.8	0.8	0.8	0.9
100%	99%	96%	91%	83%	74%	64%	54%	45%	35%	27%	20%	13%	7%	4%	2%	1%	1%	1%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
67.6	66.9	64.8	61.4	56.3	50.0	43.2	36.4	30.1	23.9	18.3	13.3	8.9	4.8	2.6	1.2	0.8	0.8	0.8	0.9
100%	99%	96%	91%	83%	74%	64%	54%	45%	35%	27%	20%	13%	7%	4%	2%	1%	1%	1%	1%

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
67.6	67.1	65.0	61.4	56.4	50.2	43.2	36.5	30.2	23.9	18.1	13.2	8.7	3.6	1.8	0.8	1.0	1.1	1.0	1.2
100%	99%	96%	91%	83%	74%	64%	54%	45%	35%	27%	20%	13%	5%	3%	1%	1%	2%	2%	2%

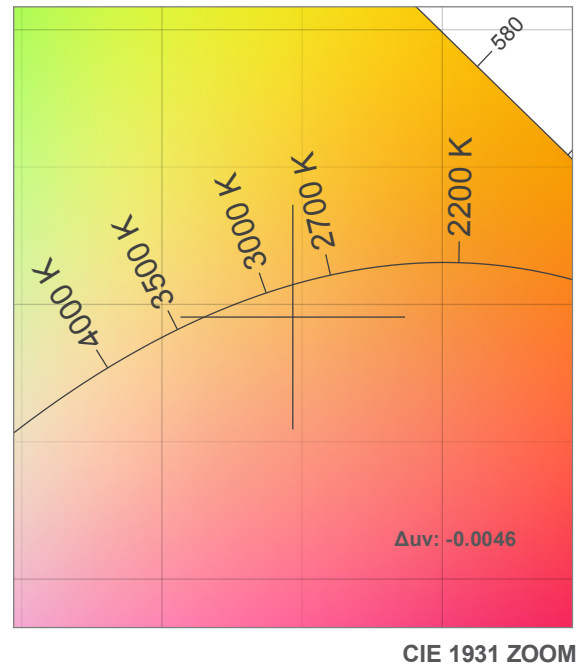
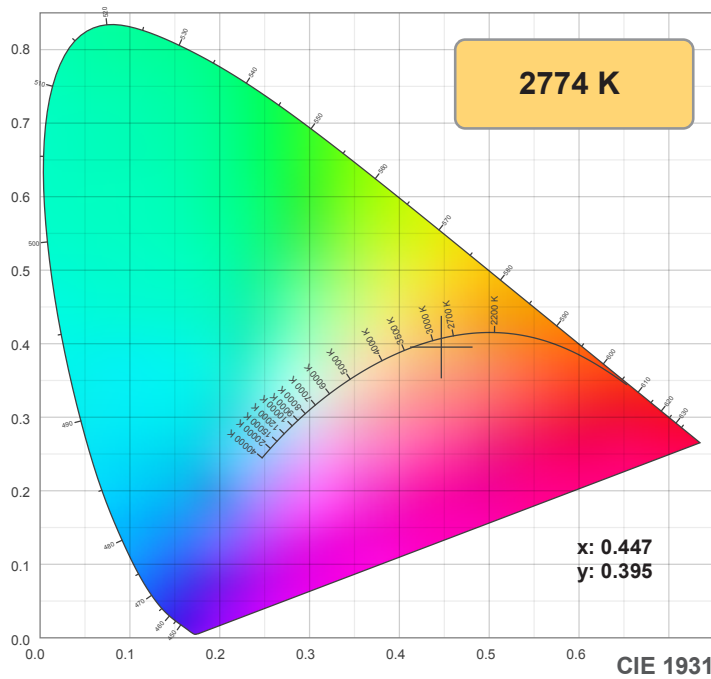
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
67.6	67.1	65.0	61.4	56.4	50.2	43.2	36.5	30.2	23.9	18.1	13.2	8.7	3.6	1.8	0.8	1.0	1.1	1.0	1.2
100%	99%	96%	91%	83%	74%	64%	54%	45%	35%	27%	20%	13%	5%	3%	1%	1%	2%	2%	2%

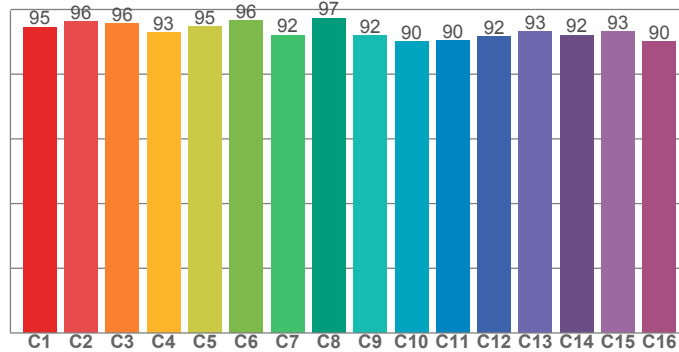
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
133.5°	224°	259.2°	57.1%	37.3%

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

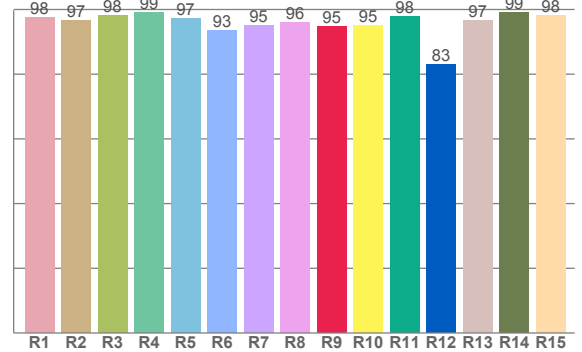
3000K



TM30: 93.3



CRI: 96.6 (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
97.5	96.6	98.1	99.0	97.1	93.5	95.0	95.9	94.8	95.0	97.8	83.1	96.7	99.2	98.1

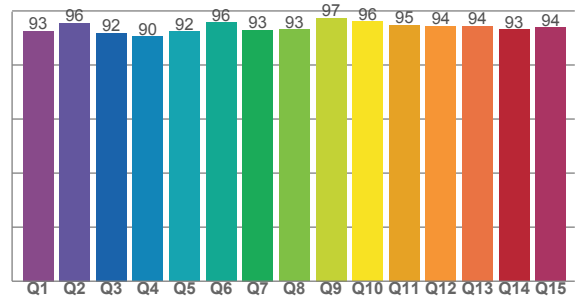
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.6	96.3	95.7	93.0	94.8	96.5	92.1	97.4	91.9	90.0	90.5	91.7	93.2	92.1	93.2	90.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.6	95.6	91.9	90.5	92.3	95.7	92.9	93.2	97.4	96.1	94.9	94.4	94.4	93.1	93.9

CQS: 93.5



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
2774 K	96.6	94.8	93.3	100.7	93.5	0.447	0.395	0.261	0.346	-0.0046

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

3000K

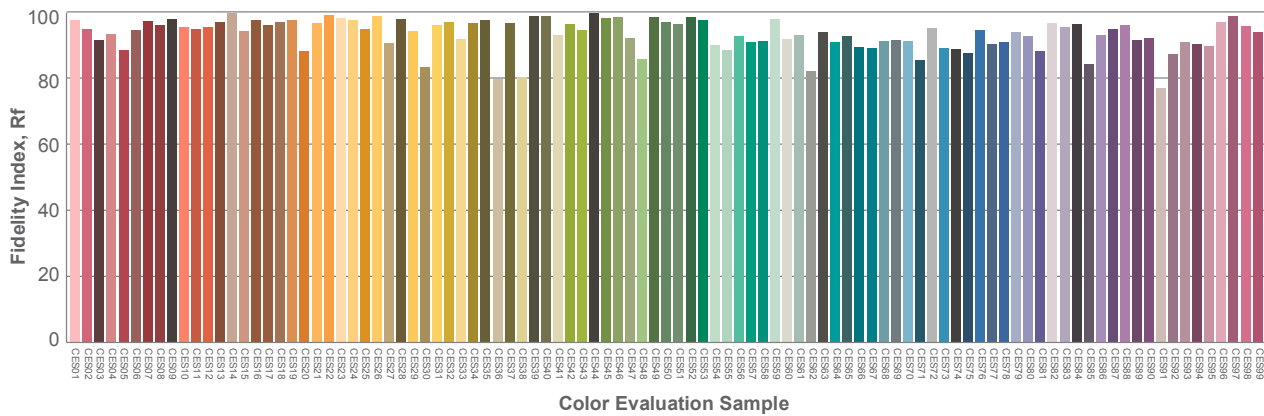
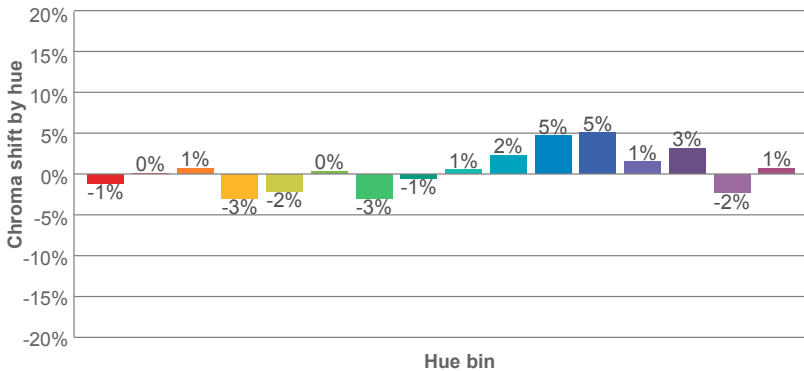
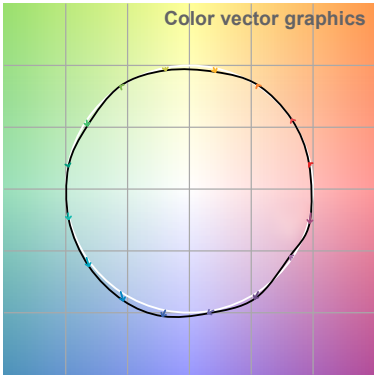
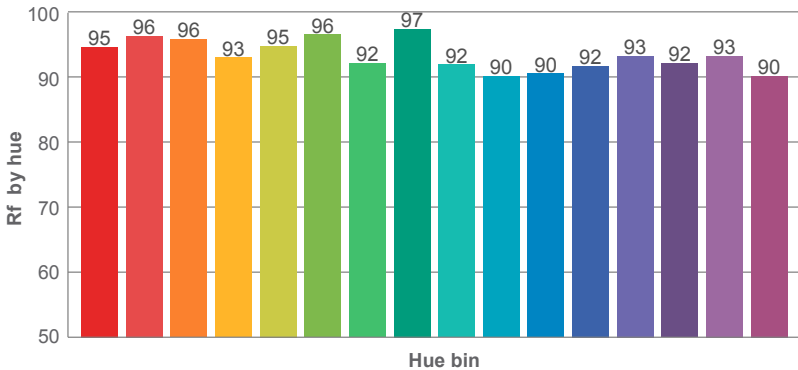
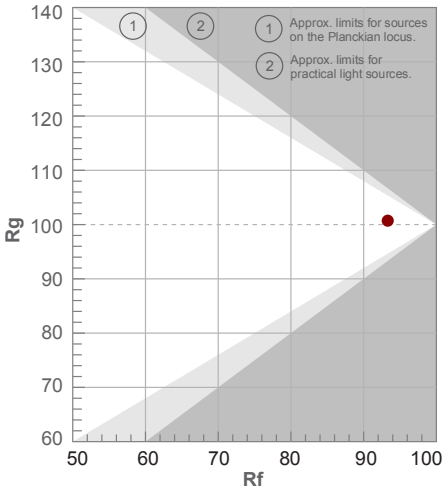
Rf 93.3

Fidelity index Rf

Rg 100.7

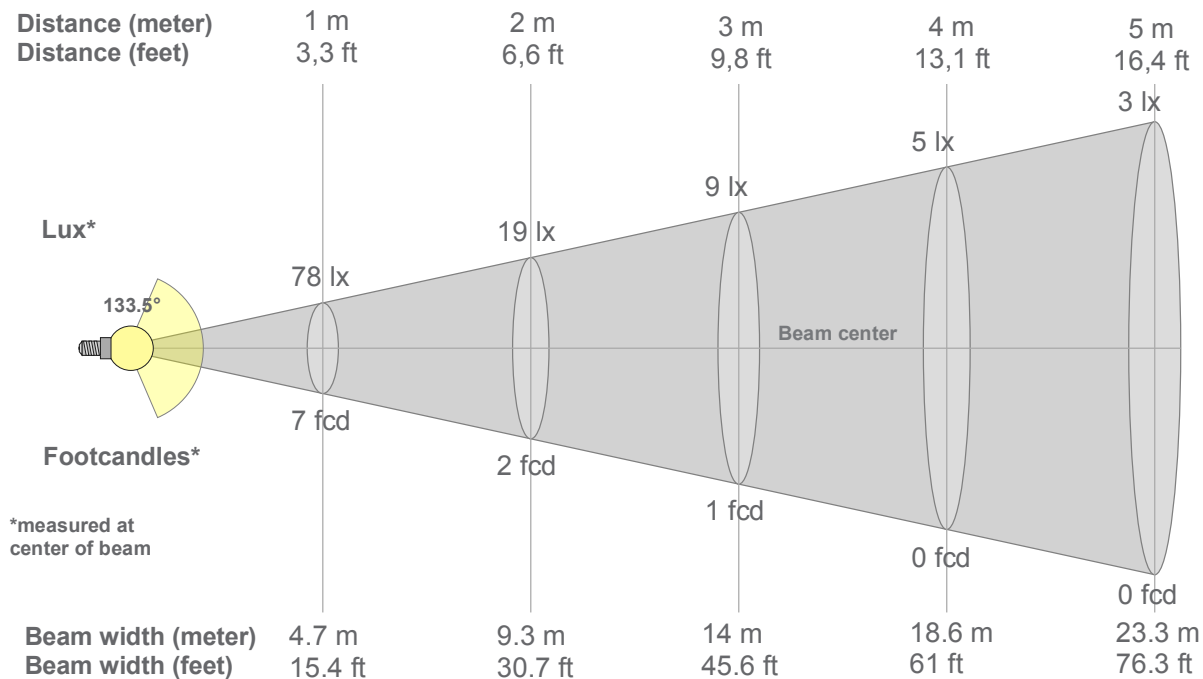
Gammut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	2%
2	96	0%	1%
3	96	1%	1%
4	93	-3%	-2%
5	95	-2%	0%
6	96	0%	0%
7	92	-3%	3%
8	97	-1%	1%
9	92	1%	5%
10	90	2%	7%
11	90	5%	6%
12	92	5%	-1%
13	93	1%	-5%
14	92	3%	-5%
15	93	-2%	0%
16	90	1%	-8%



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
78lx	19lx	9lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
7.2fcd	1.8fcd	0.8fcd	0.5fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
77.5	76.8	74.4	70.3	64.5	57.4	49.6	42.0	34.4	27.2	20.5	14.4	7.5	1.1	0.7	0.7	0.7	0.8	0.7	0.8
100%	99%	96%	91%	83%	74%	64%	54%	44%	35%	26%	19%	10%	1%	1%	1%	1%	1%	1%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
77.5	76.8	74.4	70.3	64.5	57.4	49.6	42.0	34.4	27.2	20.5	14.4	7.5	1.1	0.7	0.7	0.7	0.8	0.7	0.8
100%	99%	96%	91%	83%	74%	64%	54%	44%	35%	26%	19%	10%	1%	1%	1%	1%	1%	1%	1%

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
77.5	76.9	74.7	70.8	65.0	57.9	49.8	41.9	34.4	27.3	20.7	15.0	9.7	3.7	0.7	0.8	0.9	1.0	1.0	1.0
100%	99%	96%	91%	84%	75%	64%	54%	44%	35%	27%	19%	13%	5%	1%	1%	1%	1%	1%	1%

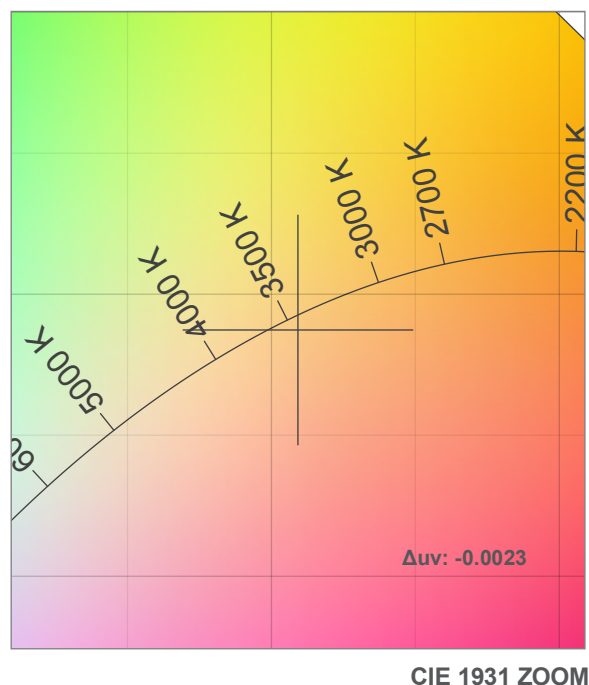
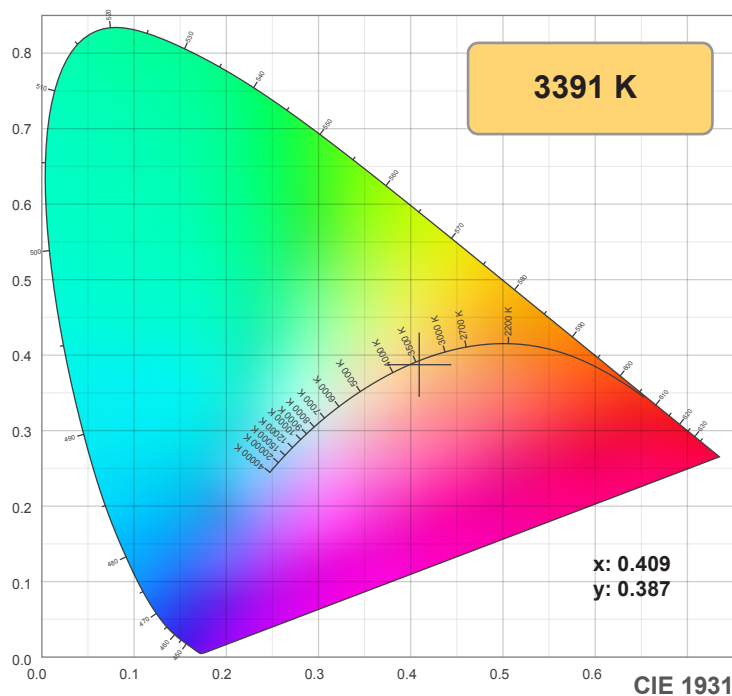
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
77.5	76.9	74.7	70.8	65.0	57.9	49.8	41.9	34.4	27.3	20.7	15.0	9.7	3.7	0.7	0.8	0.9	1.0	1.0	1.0
100%	99%	96%	91%	84%	75%	64%	54%	44%	35%	27%	19%	13%	5%	1%	1%	1%	1%	1%	1%

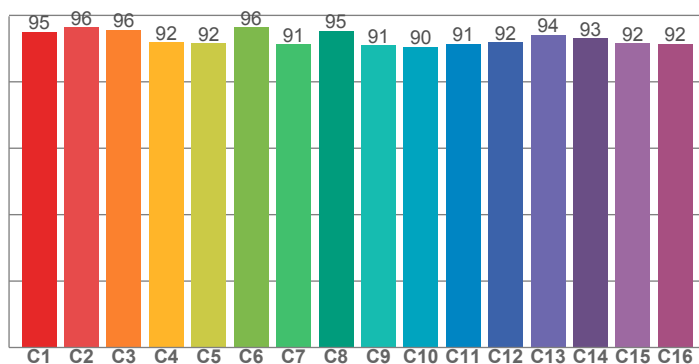
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
133.5°	218.9°	235.5°	58.3%	38.1%

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

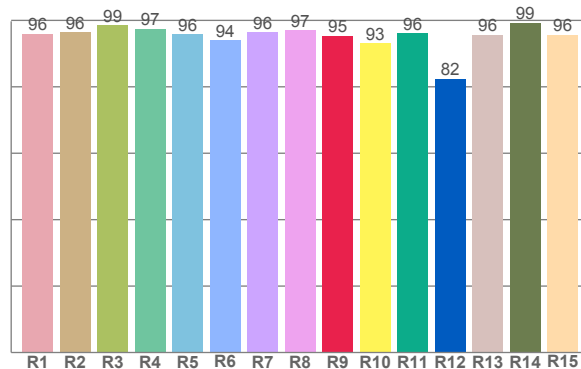
3500K



TM30: 92.9



CRI: 96.5 (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
96.0	96.4	98.5	97.5	95.9	94.0	96.4	97.1	95.4	93.2	96.1	82.5	95.7	99.3	95.7

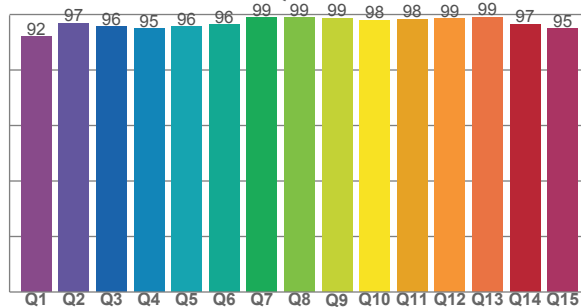
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.0	96.5	95.7	91.9	91.5	96.4	91.3	95.3	91.0	90.5	91.4	91.9	94.2	93.1	91.6	91.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.1	96.8	95.7	94.9	95.5	96.3	99.0	99.0	98.6	98.0	98.3	98.6	99.1	96.5	94.8

CQS: 96.2



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
3391 K	96.5	95.4	92.9	99.8	96.2	0.409	0.387	0.240	0.340	-0.0023

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

3500K

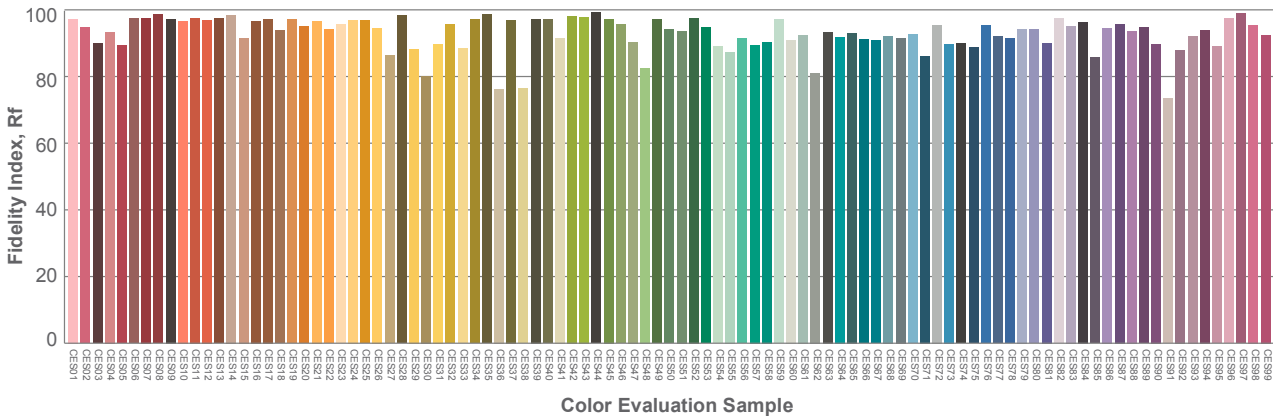
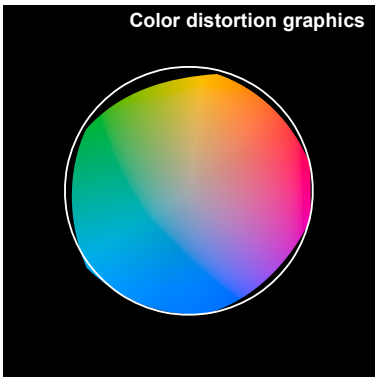
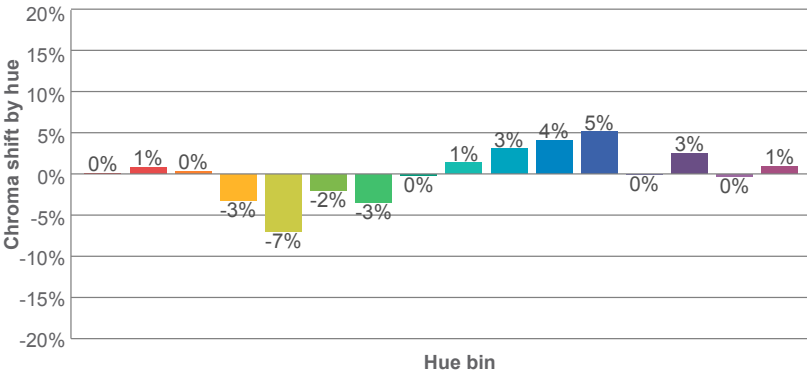
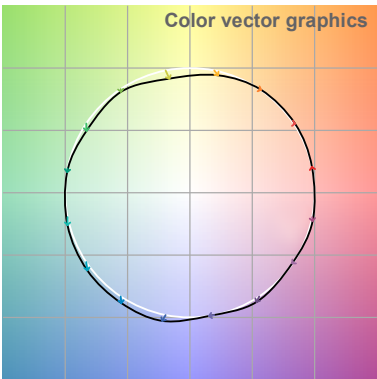
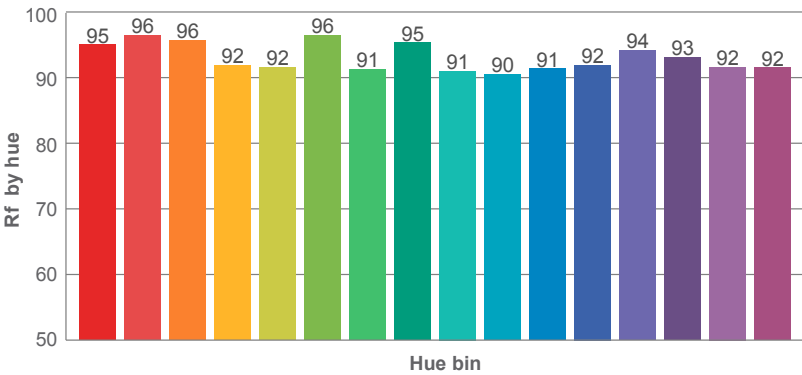
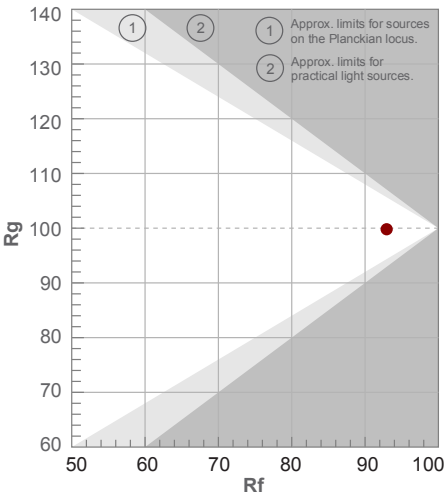
Rf 92.9

Fidelity index Rf

Rg 99.8

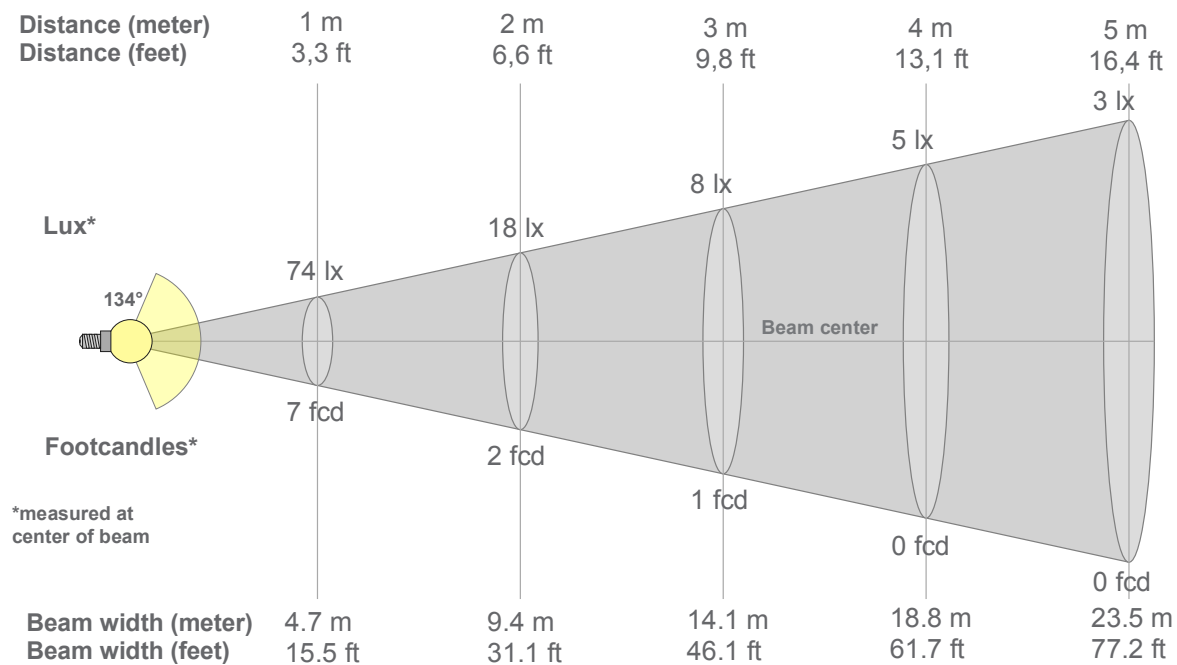
Gammut index Rg

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



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
74lx	18lx	8lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
6.8fcd	1.7fcd	0.8fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
73.6	73.1	70.9	67.2	61.8	55.0	47.5	40.0	33.0	26.3	19.9	14.0	6.9	0.9	0.6	0.6	0.6	0.7	0.7	0.7
100%	99%	96%	91%	84%	75%	64%	54%	45%	36%	27%	19%	9%	1%	1%	1%	1%	1%	1%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
73.6	73.1	70.9	67.2	61.8	55.0	47.5	40.0	33.0	26.3	19.9	14.0	6.9	0.9	0.6	0.6	0.6	0.7	0.7	0.7
100%	99%	96%	91%	84%	75%	64%	54%	45%	36%	27%	19%	9%	1%	1%	1%	1%	1%	1%	1%

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
73.6	73.0	70.8	66.8	61.5	54.8	47.3	40.0	32.8	25.9	19.4	13.1	6.1	1.0	0.9	1.0	1.1	1.1	1.2	1.2
100%	99%	96%	91%	83%	74%	64%	54%	45%	35%	26%	18%	8%	1%	1%	1%	1%	2%	2%	2%

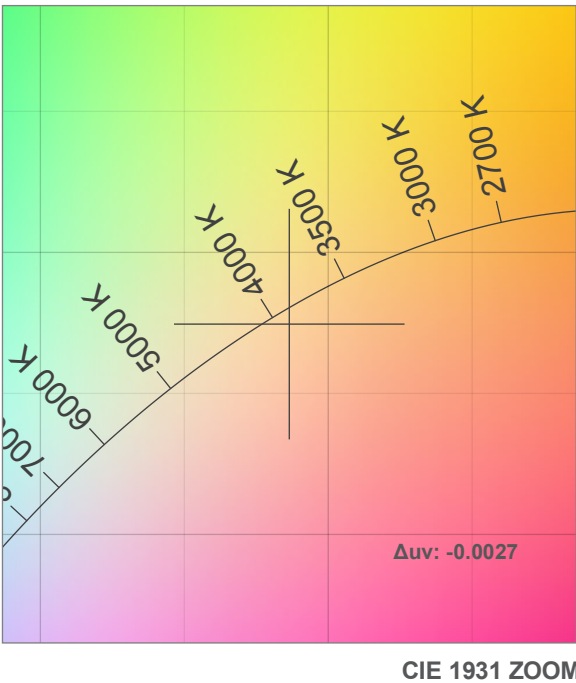
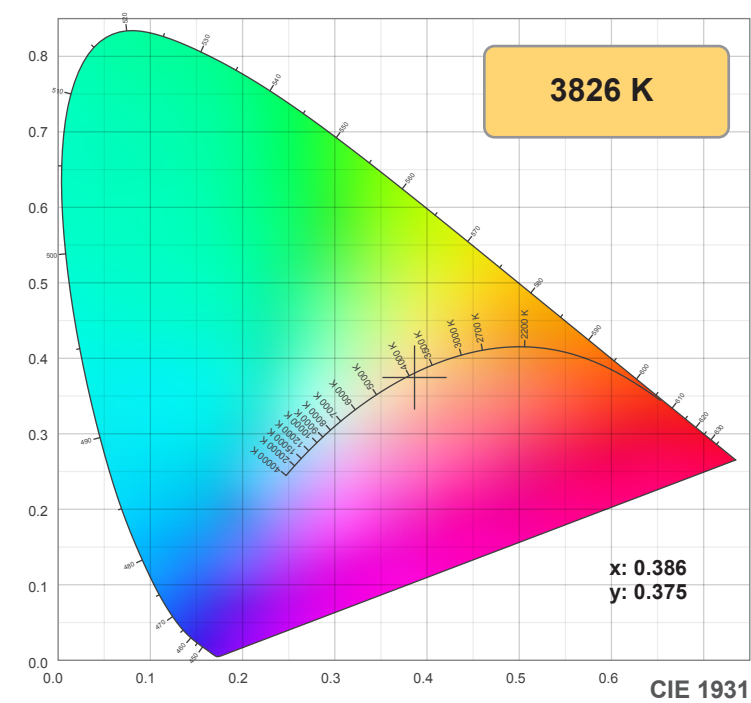
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
73.6	73.0	70.8	66.8	61.5	54.8	47.3	40.0	32.8	25.9	19.4	13.1	6.1	1.0	0.9	1.0	1.1	1.1	1.2	1.2
100%	99%	96%	91%	83%	74%	64%	54%	45%	35%	26%	18%	8%	1%	1%	1%	1%	2%	2%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
134°	213.9°	227.9°	58.8%	38.4%

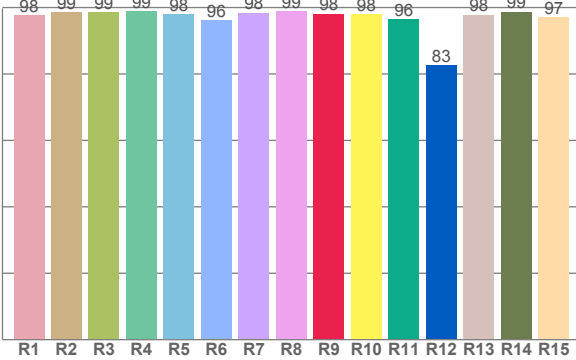
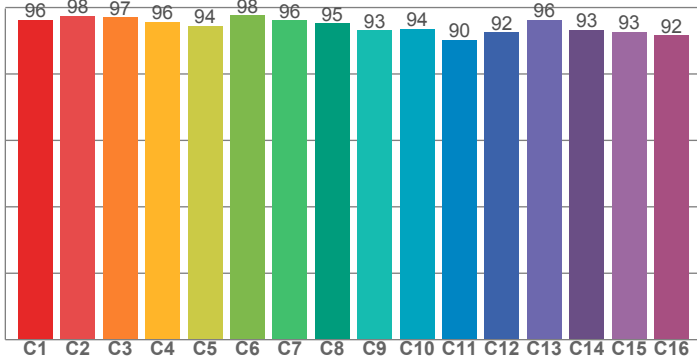
Note: specifications are representative of the diode type and not a particular tape light article.

4200K



TM30: 94.6

CRI: 98.2 (R1-R8)



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

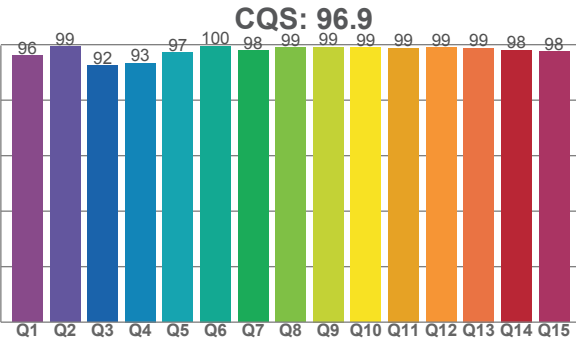
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.7	98.5	98.6	98.9	98.0	96.2	98.5	98.9	98.1	97.9	96.4	82.7	97.8	98.7	97.1

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
96.3	97.5	97.0	95.7	94.5	97.7	96.1	95.2	93.1	93.5	90.3	92.5	96.3	93.3	92.7	91.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
96.0	99.3	92.5	93.4	97.2	99.6	97.9	99.0	99.2	98.9	98.8	99.0	98.9	98.0	97.5



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 divition from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3826 K	98.2	98.1	94.6	101.1	96.9	0.386	0.375	0.230	0.334	-0.0027

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

4200K

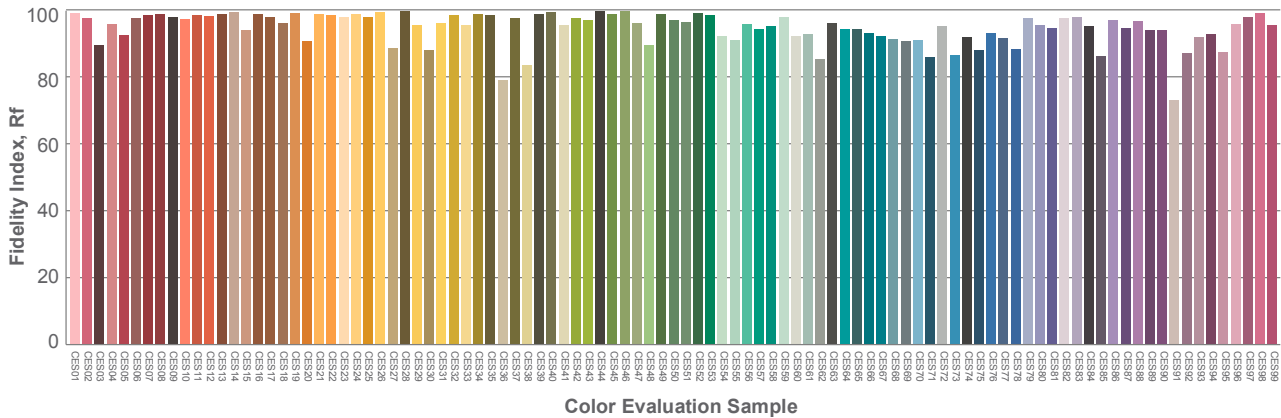
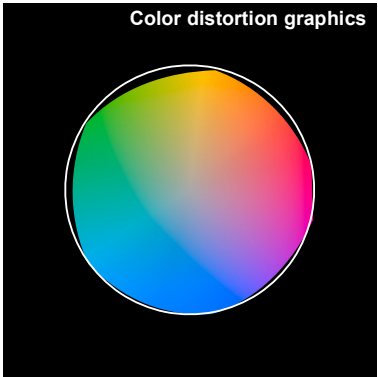
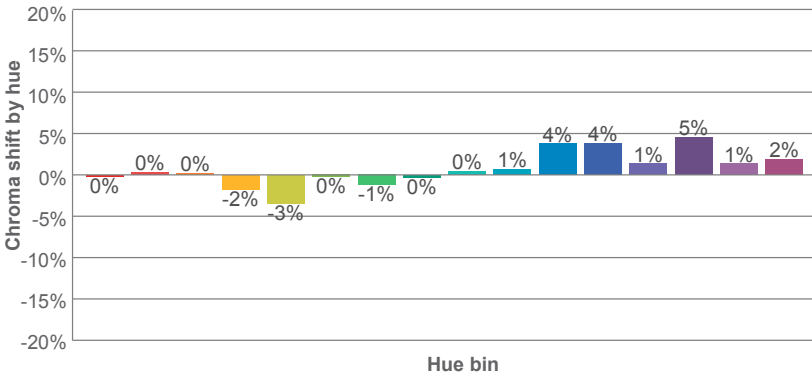
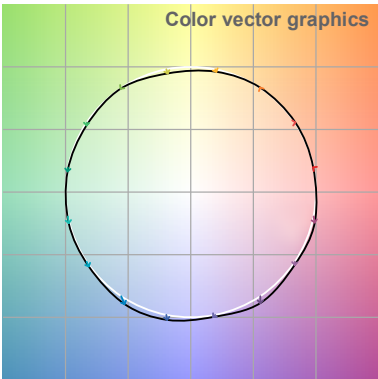
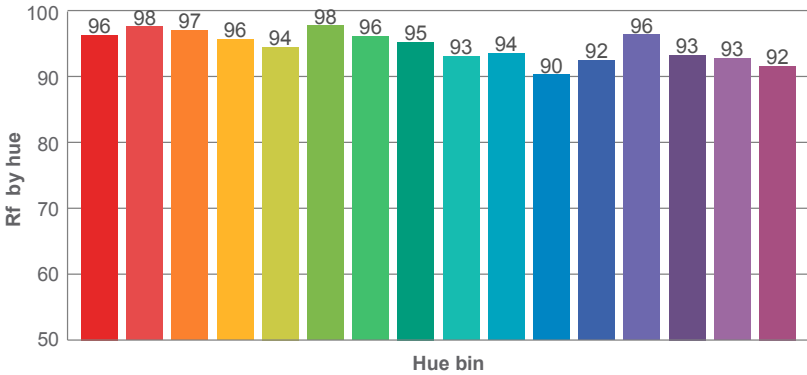
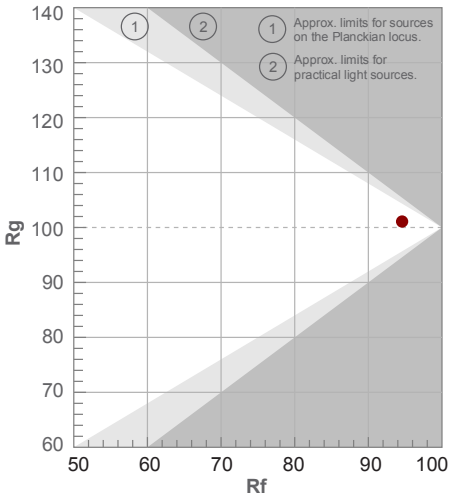
Rf 94.6

Fidelity index Rf

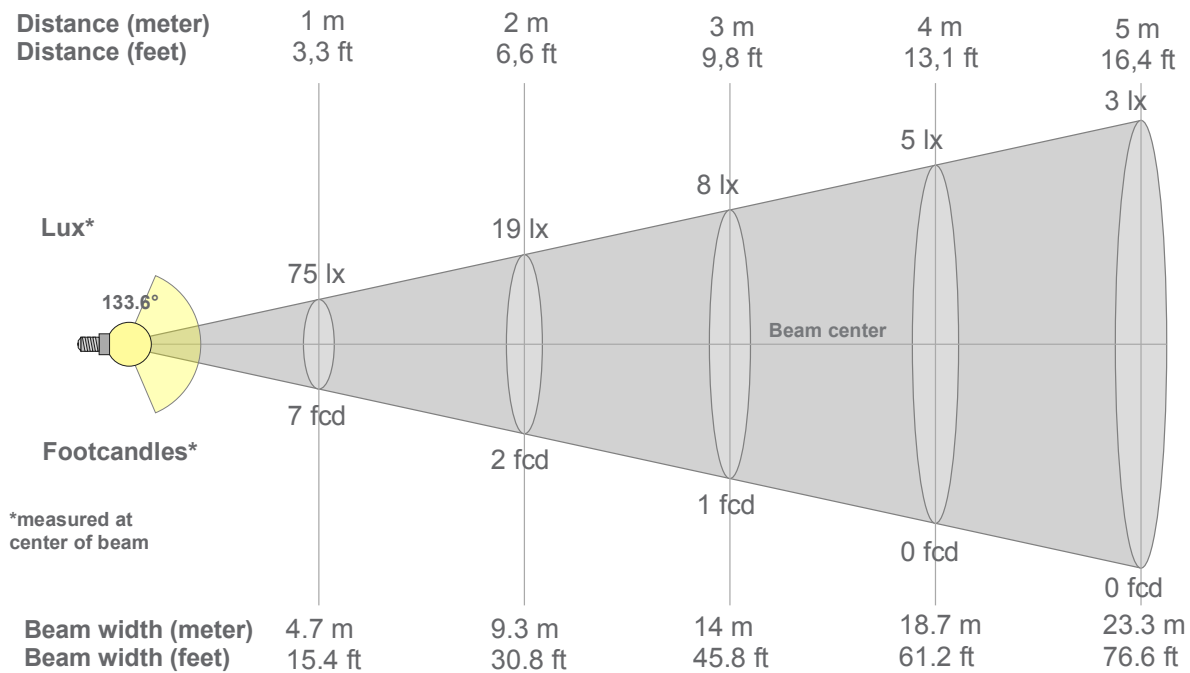
Rg 101.1

Gammut index Rg

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



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
75lx	19lx	8lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
7fcd	1.7fcd	0.8fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
75.0	74.2	71.9	68.0	62.5	55.7	48.1	40.6	33.3	26.2	19.8	14.0	8.9	3.8	0.6	0.7	0.7	0.7	0.8	0.8
100%	99%	96%	91%	83%	74%	64%	54%	44%	35%	26%	19%	12%	5%	1%	1%	1%	1%	1%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
75.0	74.2	71.9	68.0	62.5	55.7	48.1	40.6	33.3	26.2	19.8	14.0	8.9	3.8	0.6	0.7	0.7	0.7	0.8	0.8
100%	99%	96%	91%	83%	74%	64%	54%	44%	35%	26%	19%	12%	5%	1%	1%	1%	1%	1%	1%

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
75.0	74.4	72.1	68.2	62.8	56.0	48.3	40.6	33.3	26.3	19.8	14.5	9.5	3.7	0.9	0.9	0.9	1.0	1.1	1.1
100%	99%	96%	91%	84%	75%	64%	54%	44%	35%	26%	19%	13%	5%	1%	1%	1%	1%	1%	1%

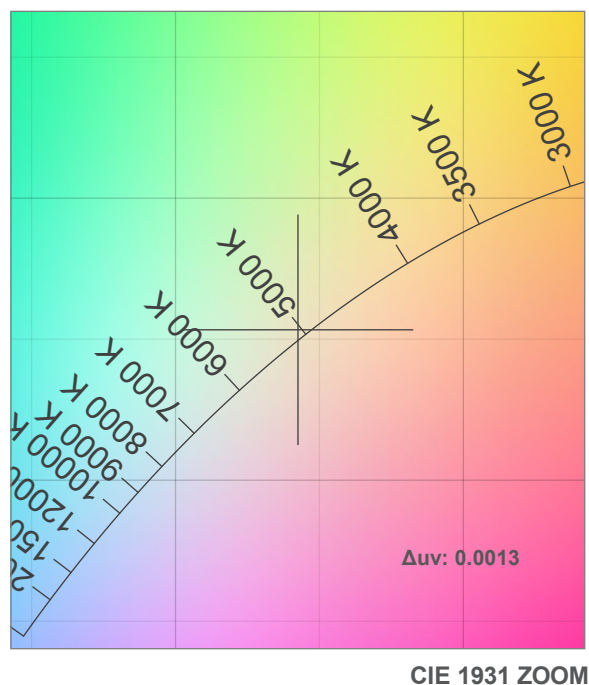
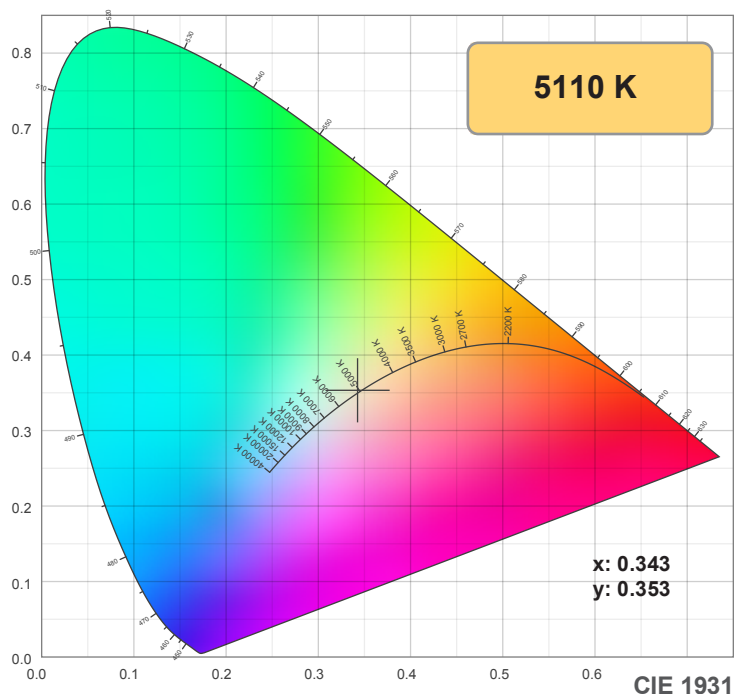
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
75.0	74.4	72.1	68.2	62.8	56.0	48.3	40.6	33.3	26.3	19.8	14.5	9.5	3.7	0.9	0.9	0.9	1.0	1.1	1.1
100%	99%	96%	91%	84%	75%	64%	54%	44%	35%	26%	19%	13%	5%	1%	1%	1%	1%	1%	1%

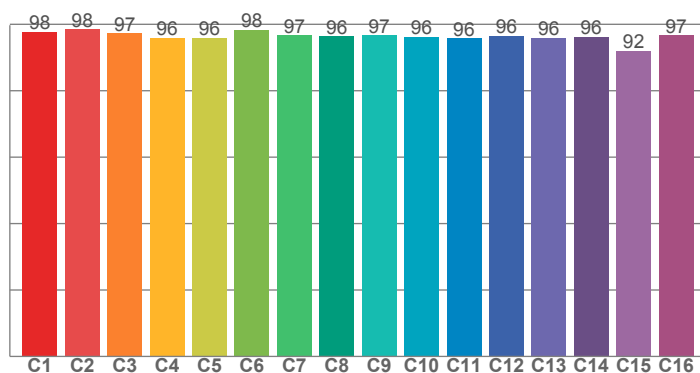
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
133.6°	222°	241°	57.9%	37.8%

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

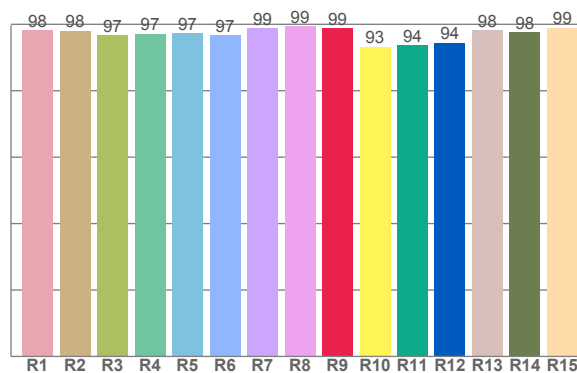
5000K



TM30: 96.5



CRI: 97.8 (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
98.3	98.1	96.8	97.1	97.4	96.7	98.7	99.4	98.8	93.2	93.7	94.4	98.2	97.7	99.0

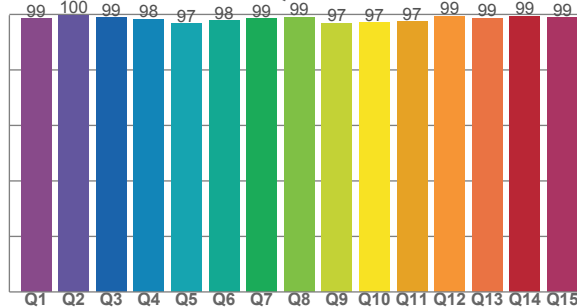
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97.7	98.4	97.2	95.9	95.9	98.4	96.7	96.4	96.6	96.2	95.7	96.5	95.8	96.2	92.0	96.7

CQS Q values

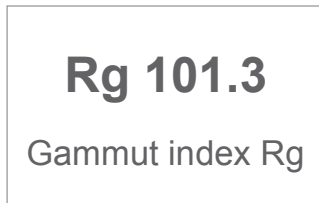
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
98.5	99.7	98.9	98.2	96.7	97.7	98.6	99.0	96.8	97.1	97.4	99.4	98.7	99.4	98.9

CQS: 98.1

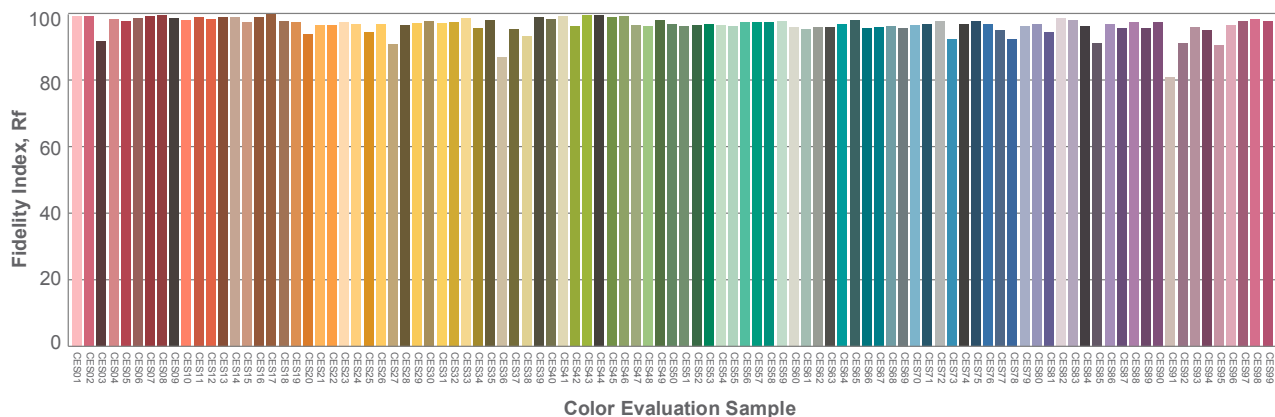
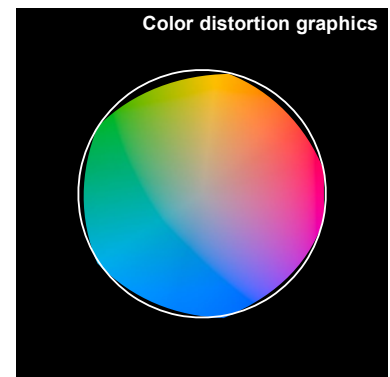
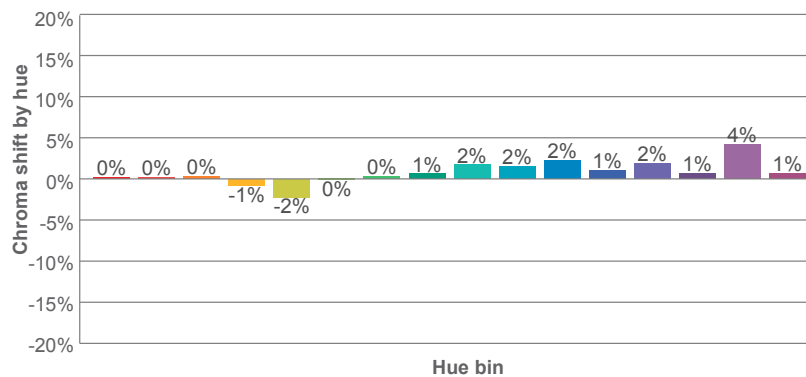
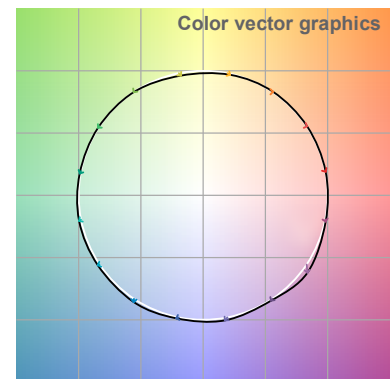
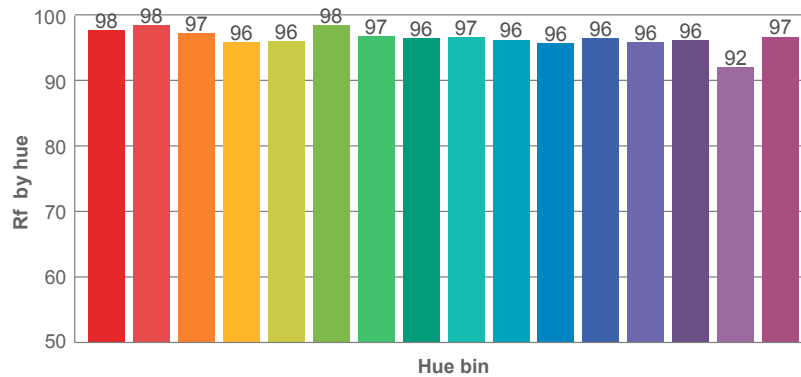
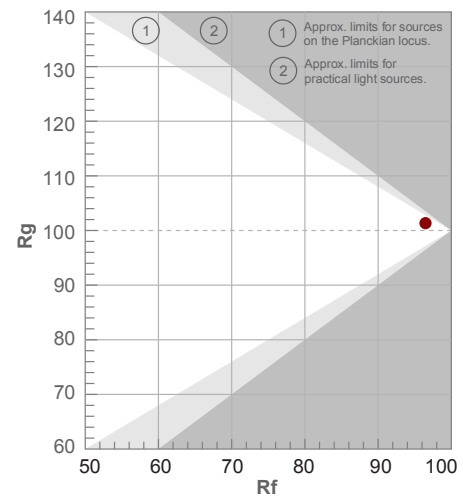


Color parameters

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
5110 K	97.8	98.8	96.5	101.3	98.1	0.343	0.353	0.209	0.323	0.0013

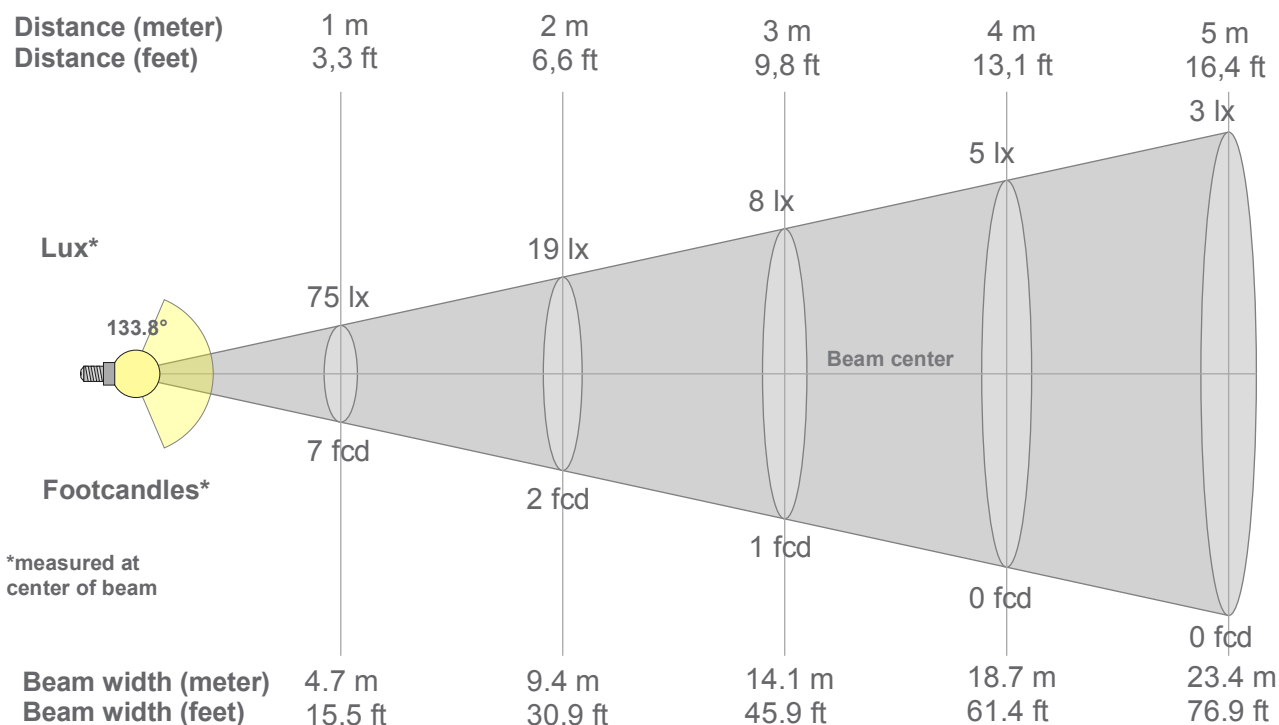


		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	98	0%	-1%
2	98	0%	0%
3	97	0%	-1%
4	96	-1%	-2%
5	96	-2%	-1%
6	98	0%	0%
7	97	0%	2%
8	96	1%	2%
9	97	2%	1%
10	96	2%	0%
11	96	2%	1%
12	96	1%	-2%
13	96	2%	-3%
14	96	1%	-2%
15	92	4%	-5%
16	97	1%	-1%



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
75lx	19lx	8lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
6.9fcd	1.7fcd	0.8fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
74.7	74.0	71.7	67.7	62.1	55.3	47.8	40.5	33.2	26.0	19.4	12.2	3.0	0.4	0.5	0.5	0.6	0.6	0.6	0.6
100%	99%	96%	91%	83%	74%	64%	54%	44%	35%	26%	16%	4%	1%	1%	1%	1%	1%	1%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
74.7	74.0	71.7	67.7	62.1	55.3	47.8	40.5	33.2	26.0	19.4	12.2	3.0	0.4	0.5	0.5	0.6	0.6	0.6	0.6
100%	99%	96%	91%	83%	74%	64%	54%	44%	35%	26%	16%	4%	1%	1%	1%	1%	1%	1%	1%

Intensities in 180° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
74.7	74.1	72.0	68.2	62.8	55.9	48.1	40.4	33.4	26.9	20.8	15.5	10.4	4.4	1.5	1.6	1.8	1.9	2.0	2.1
100%	99%	96%	91%	84%	75%	64%	54%	45%	36%	28%	21%	14%	6%	2%	2%	2%	2%	3%	3%

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
74.7	74.1	72.0	68.2	62.8	55.9	48.1	40.4	33.4	26.9	20.8	15.5	10.4	4.4	1.5	1.6	1.8	1.9	2.0	2.1
100%	99%	96%	91%	84%	75%	64%	54%	45%	36%	28%	21%	14%	6%	2%	2%	2%	2%	3%	3%