

PrimaLine® 3 XT Long-Run LED Tape Light



PrimaLine 3 XT is a high output, dimmable LED light that supplies the perfect level of brightness for task lighting, bright accent lighting, large coves, hallways, and long applications. This 3W per foot tape is Alloy LED's most popular brightness level for general applications.

- Extended maximum run length of 50 feet
- Saves installation costs by eliminating multiple home runs
- XT 3 and 4.4 models are manufactured exclusively for Alloy
- Industry-leading 95+ CRI (Color Rendering Index)
- High R9 and R13 values for superb rendering of warm tones

TECHNICAL INFORMATION

Color Temperature	2700K, 3000K, 3500K, 4200K, 5000K*
Power Consumption per Foot	2.88 Watts/120mA
Input Voltage	24V DC
Diodes per foot	36
Diode Spacing	0.325 inches
Tape Height	0.1 inches
Beam Angle	120°
Field Cuttable (UL 2108)	Every 2 inches
Maximum Run Length	50 ft.
Dimmable	Yes
Diode Type	3528 SMD

Mounting	3M™ Self-Adhesive Tape (Non-porous)
Operating Temperature	-13° F to 140° F
Ambient Temperature	-40° F to 186° F
Spool Lengths**	20 ft., 40 ft.
Environment	Indoor, Dry
Certifications	UL Listed, UL 2108, CE, RoHS, UL Closet Rated
Standards	Certified to the CA Energy Commission in accordance with the Title 24 JA8 2016 std.
Warranty	6 Year Limited

* In addition to stocked colors, a wide variety of Color Temperatures is also available by special order. Please call or email to order.

**Each spool includes 36 in., CL2 rated 20 AWG tinned lead wires at both ends of the tape light.

PRODUCT INFORMATION

20 ft. Spool Item Number	40 ft. Spool Item Number	100 ft. Spool Item Number	Voltage	Color Temperature	CRI	R9 Value	R13 Value	TM30	CQS	Lumens per Foot
AL-01-05-2401	AL-01-05-2421	AL-01-05-2441	24V DC	2700K	98.3	93.5	99.1	93.5	94.8	207
AL-01-05-2402	AL-01-05-2422	AL-01-05-2442	24V DC	3000K	97.9	92.9	99.4	92.4	94.6	234
AL-01-05-2403	AL-01-05-2423	AL-01-05-2443	24V DC	4200K	96	90.3	97.8	89.8	93.4	240
AL-01-05-2404	AL-01-05-2424	AL-01-05-2444	24V DC	5000K	96.3	96.3	98.3	89.7	92.7	244
AL-01-05-2408	AL-01-05-2428	AL-01-05-2448	24V DC	3500K	96.6	90.9	97.6	93.2	94.5	191

VOLTAGE DROP GUIDANCE CHART

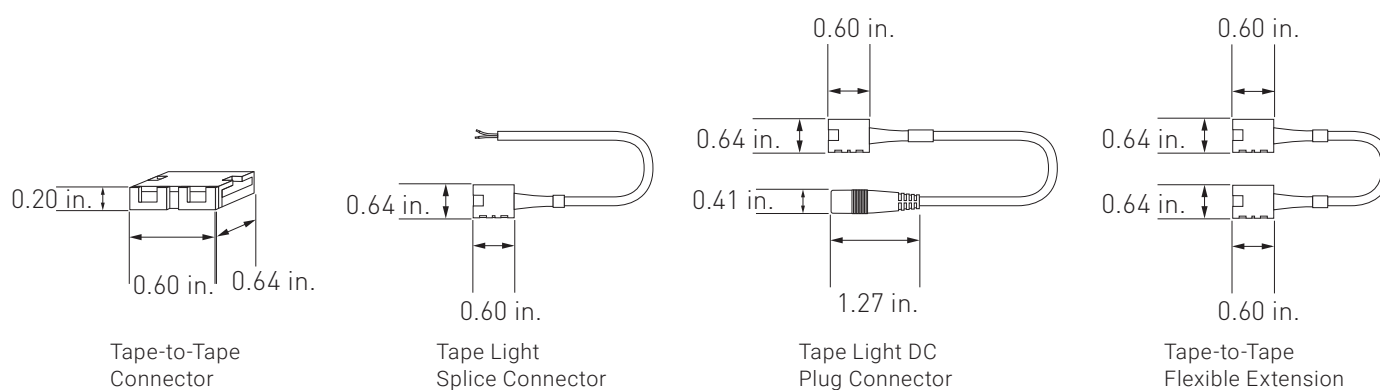
XT Long-Run 24V Voltage Drop and Wire Length Distance Chart (3% Drop or 24V)

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	90 ft.	45 ft.	30 ft.	23 ft.	18 ft.	15 ft.	13 ft.	12 ft.	10 ft.	10 ft.
20 AWG	10.15	142 ft.	71 ft.	48 ft.	36 ft.	29 ft.	24 ft.	21 ft.	18 ft.	16 ft.	15 ft.
18 AWG	6.39	226 ft.	113 ft.	76 ft.	57 ft.	46 ft.	38 ft.	33 ft.	29 ft.	26 ft.	24 ft.
16 AWG	4.02	359 ft.	180 ft.	120 ft.	90 ft.	72 ft.	60 ft.	52 ft.	45 ft.	40 ft.	38 ft.
14 AWG	2.53	571 ft.	286 ft.	191 ft.	143 ft.	115 ft.	96 ft.	82 ft.	72 ft.	64 ft.	60 ft.
12 AWG	1.59	907 ft.	454 ft.	303 ft.	227 ft.	182 ft.	152 ft.	130 ft.	114 ft.	101 ft.	95 ft.
10 AWG	0.99	1442 ft.	721 ft.	481 ft.	361 ft.	289 ft.	241 ft.	206 ft.	181 ft.	161 ft.	151 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)

In-Wall-Rated Tape Light Connectors (20 AWG)

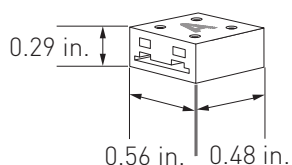


Item Number	Description	Wire Length
AL-01-05-9901	Tape-to-Tape Connector	N/A
AL-01-05-9902	Tape Light Splice Connector	6 in.
AL-01-05-9907	Tape Light Splice Connector	36 in.
AL-01-05-9910	Tape Light Splice Connector	8 ft.

Item Number	Description	Wire Length
AL-01-05-9911	Tape-to-Tape Flexible Extension	3 in.
AL-01-05-9912	Tape-to-Tape Flexible Extension	6 in.
AL-01-05-9917	Tape-to-Tape Flexible Extension	36 in.
AL-01-05-9922	Tape Light DC Plug Connector	6 in.
AL-01-05-9927	Tape Light DC Plug Connector	36 in.

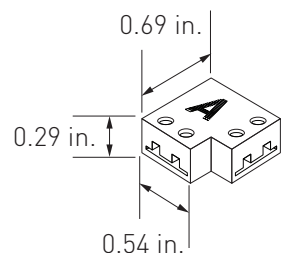
ACCESSORIES (SOLD SEPARATELY)

AmpChamp: For a more secure connection



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

Note: AmpChamp Corner does not include the pre-attached 6 inch in-wall-rated 18 AWG lead wire.

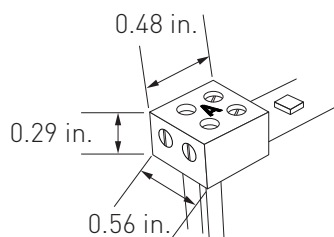


Straight AmpChamp

AL-01-05-9900
AL-01-05-9900-10 (10-pack)
AL-01-05-9900-100 (100-pack)

AmpChamp Corner

AL-01-05-9900-L

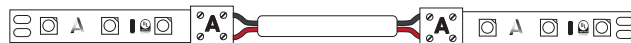


AmpChamp Up/Down

AL-01-05-9900-UD
AL-01-05-9900-UD-10 (10-pack)

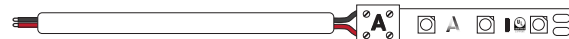
AmpChamp Jumper and Power Feed Kits

AmpChamp Jumper Kit includes two standard AmpChamp Kits and one pre-tinned 18 AWG jumper wire.



AL-01-05-9900-3IN-JK (3 in. jumper wire)
AL-01-05-9900-6IN-JK (6 in. jumper wire)
AL-01-05-9900-36IN-JK (36 in. jumper wire)

AmpChamp Power Feed Kit includes one standard AmpChamp Kit and one pre-tinned 18 AWG power feed wire.

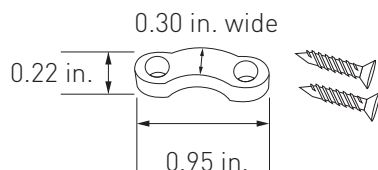


AL-01-05-9900-36IN-PK (36 in. power feed wire)
AL-01-05-9900-8FT-PK (8 ft. power feed wire)

Wire and Tape Light Management

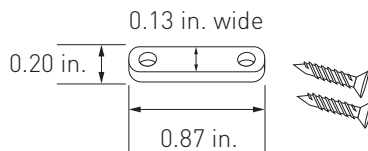
We recommend the use of the wire and tape harness.

- At least 1 wire harness at the beginning to secure the lead wire; for longer lead wires, place a harness every 2 feet
- 1 tape harness every 2 feet and 1 harness at the end of the tape light to secure it



Wire Harness

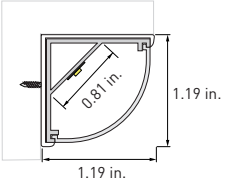
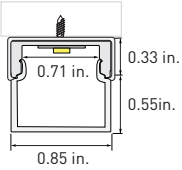
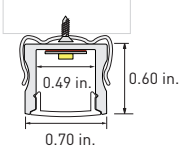
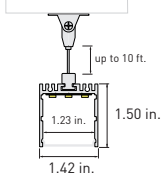
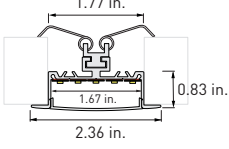
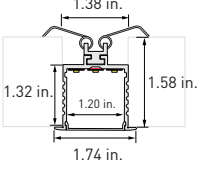
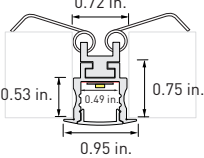
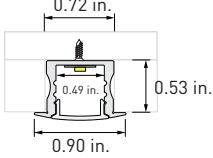
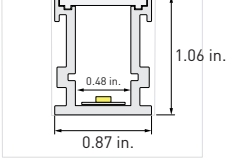
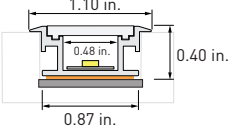
Holds wire in place securely
AL-01-99-9901-10 (10-pack)



Tape Harness

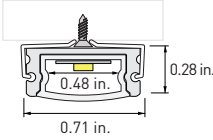
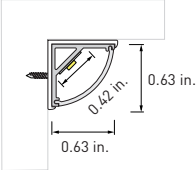
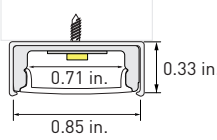
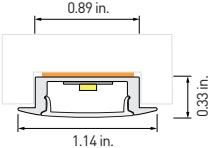
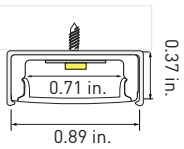
Provides extra security for tape light, especially at the ends of a run
AL-01-99-9900-10 (10-pack)

Reduced Hotspot Pairings (Hotspot Rating from 0-5)

Surfa 2X: Corner-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector ☒ AmpChamp	Surfa 6 Surround: Surface-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector ☒ AmpChamp	Surfa 7: Surface-Mount  Hotspot Rating: 0 ☒ Solder ☐ Connector ☐ AmpChamp
Suspan 1: Suspended  Hotspot Rating: 0 ☒ Solder ☒ Connector ☒ AmpChamp	Ankr 1: In-Wall  Hotspot Rating: 0 ☒ Solder ☒ Connector ☒ AmpChamp	Ankr 2: In-Wall  Hotspot Rating: 0 ☒ Solder ☒ Connector ☒ AmpChamp
Ankr 3: In-Wall  Hotspot Rating: 0 ☒ Solder ☐ Connector ☐ AmpChamp	Ankr 4: Mud-In  Hotspot Rating: 0 ☒ Solder ☐ Connector ☐ AmpChamp	Duro 1: In-Ground  Hotspot Rating: 0 ☒ Solder ☐ Connector ☐ AmpChamp
Duro 2: In-Ground  Hotspot Rating: 1 ☒ Solder ☐ Connector ☐ AmpChamp		

COMPATIBLE CHANNELS (Diagrams below not to scale)

Other Compatible Pairings (Hotspot Rating from 0-5)

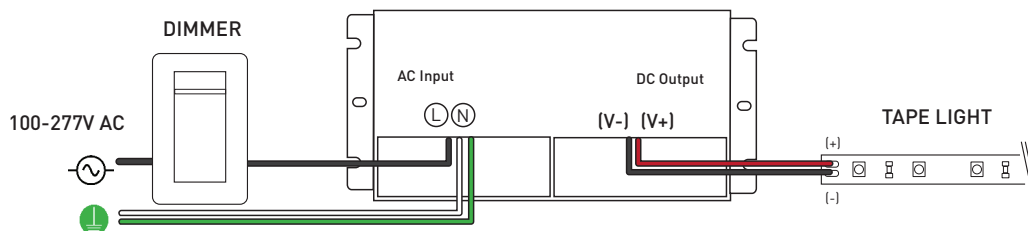
Surfa 1: Surface-Mount  Hotspot Rating: 3 ☒ Solder ☐ Connector ☐ AmpChamp	Surfa 2: Corner-Mount  Hotspot Rating: 2 ☒ Solder ☐ Connector ☒ AmpChamp	Surfa 6: Surface-Mount  Hotspot Rating: 4 ☒ Solder ☒ Connector ☒ AmpChamp
Naro 4: Recessed  Hotspot Rating: 4 ☒ Solder ☒ Connector ☒ AmpChamp	Polymer: Surface-Mount  Hotspot Rating: 4 ☒ Solder ☒ Connector ☒ AmpChamp	

ALLOY LED® Specifications

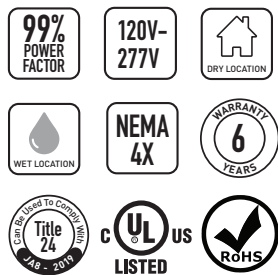
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



Alloy LED PowerFactor™ Dimmable Power Supplies with 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-98-10-12030	12V DC	30W	Yes (NEMA 4X)	10%	6.50 x 3.72 x 1.02 in.	Yes
AL-98-10-12060	12V DC	60W	Yes (NEMA 4X)	10%	7.40 x 3.72 x 1.02 in.	Yes
AL-98-10-12120	12V DC	120W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	No
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-98-10-12300-MT	12V DC	300W	Yes (NEMA 4X)	10%	11.85 x 4.33 x 1.77 in.	Yes
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 with ETL Listed Junction Box

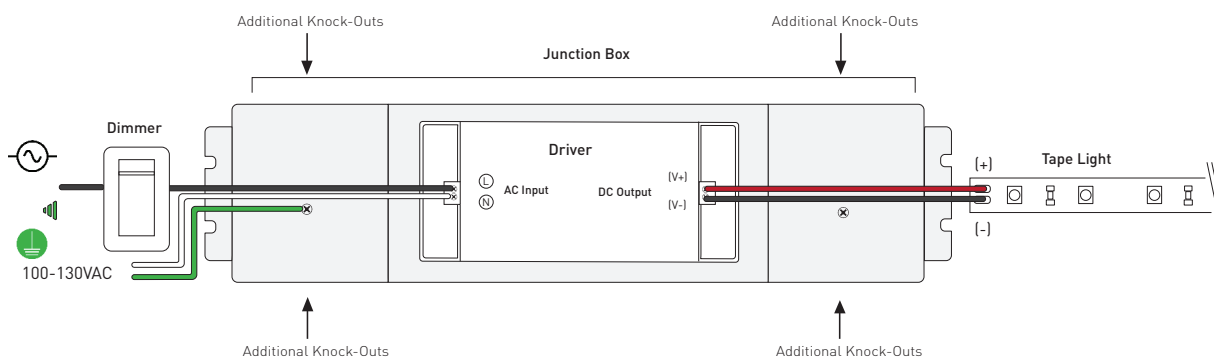
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with Incandescent, On/Off, ELV and MLV dimmers.



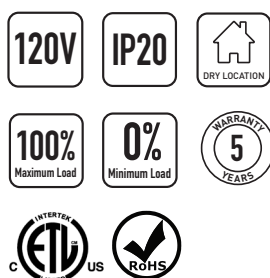
Dry Location Model
White model for 60W and lower



Wet Location Model
Black model for 80W and higher



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



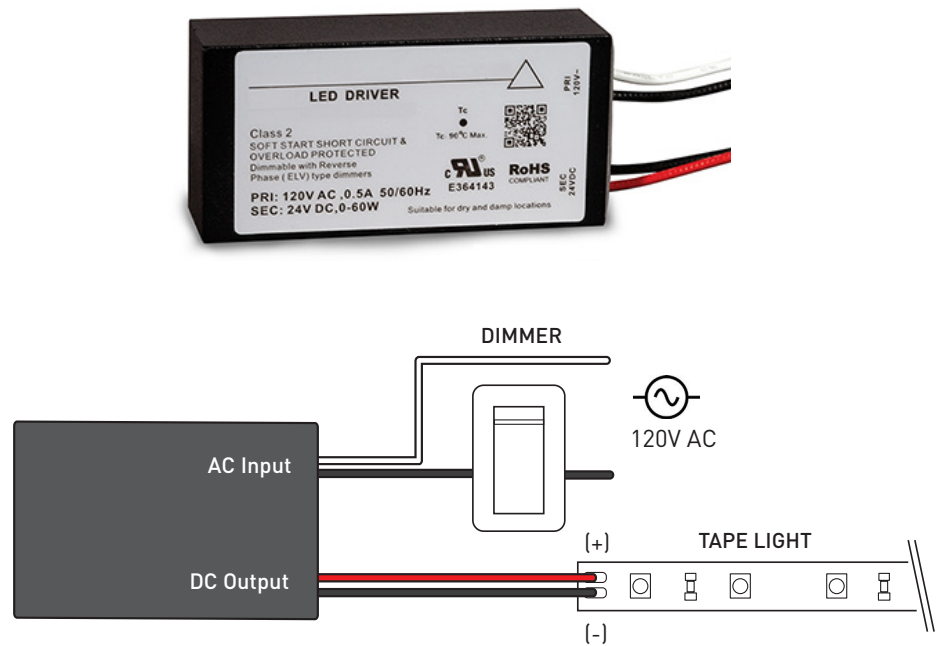
Item Number	Output Voltage	Wattage	Minimum Load	Dimensions (Junction Box) (L x W x H)	Class 2
AL-98-03-12024-NM	12V DC	24W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12048-NM	12V DC	48W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12060-NM	12V DC	60W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12080-NM	12V DC	80W	0%	14.96 x 3.03 x 2.24 in.	No
AL-98-03-12120-NM	12V DC	120W	0%	14.96 x 3.03 x 2.24 in.	No
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 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.

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

ELV Dimmable Power Supplies for Remote Enclosures

The drivers are derated, but when installed in a small enclosure with no heatsink or air circulation, we recommend a maximum load of 40W.



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

120V

98%
POWER
FACTOR

WARRANTY
5
YEARS

0%
Min. Load

UL[®] US

Item Number	Output	Wattage	Dimensions (L x W x H)	Class 2
AL-98-08-12060	12V DC	60W	2.66 x 1.30 x 0.83 in.	Yes
AL-98-08-24060	24V DC	60W	2.66 x 1.30 x 0.83 in.	Yes

Note: 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	Minimum Load	Class 2
AL-98-07-12040	12V DC	40W	N/A	Yes
AL-98-07-12040-3WIRE	12V DC	40W	N/A	Yes
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

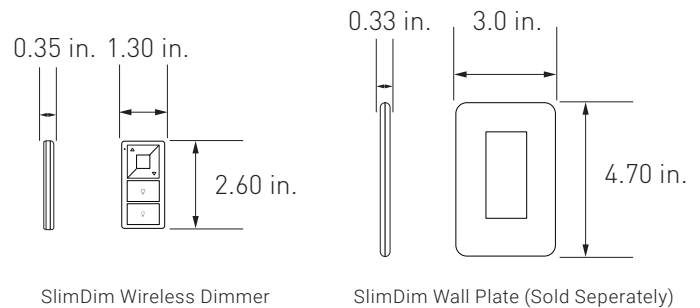
DIMMING ACCESSORIES (SOLD SEPARATELY)

Dimmers and Switches

SlimDim Wireless Dimmer Switch

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.

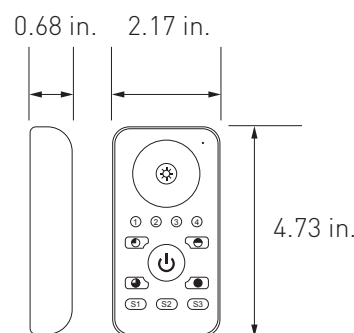
AL-70-01-0001	SlimDim Wireless Dimmer
AL-70-01-0002	Single Color Receiver (96W max.) (sold separately) 
AL-98-07-9950 -FPLATE	SlimDim Wall Plate (sold separately)



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.

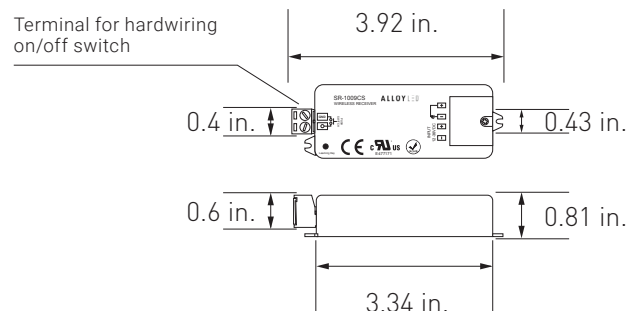
AL-60-03-0001	Remote Control Dimmer Switch
AL-70-01-0002	Single Channel Receiver (sold separately) 
AL-60-03-0004-V2	Wireless Receiver (RGB & RGBW) (sold separately) 



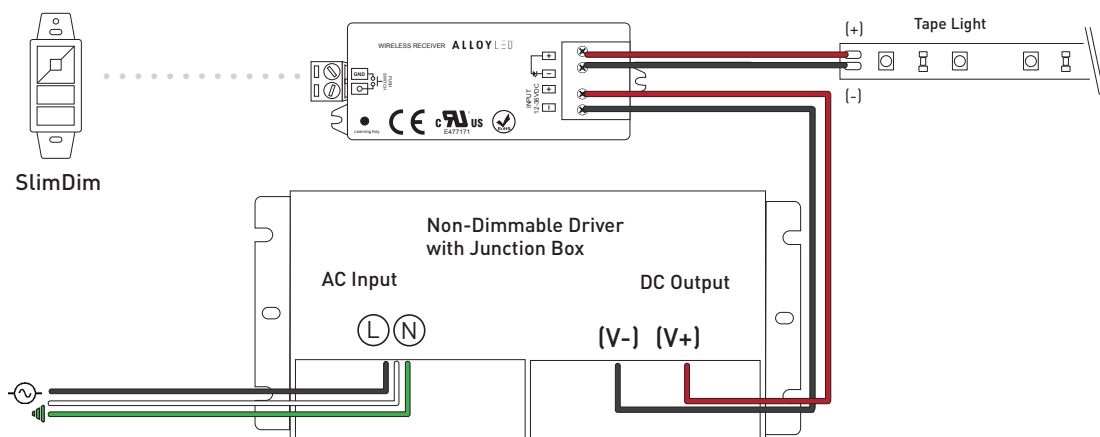
Single Channel Wireless Receiver

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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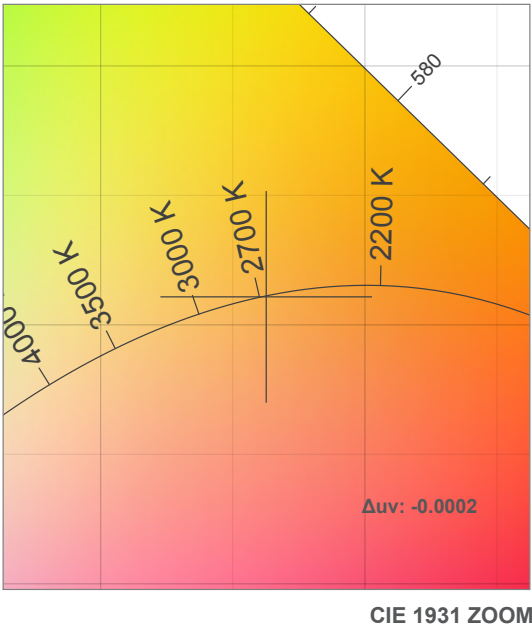
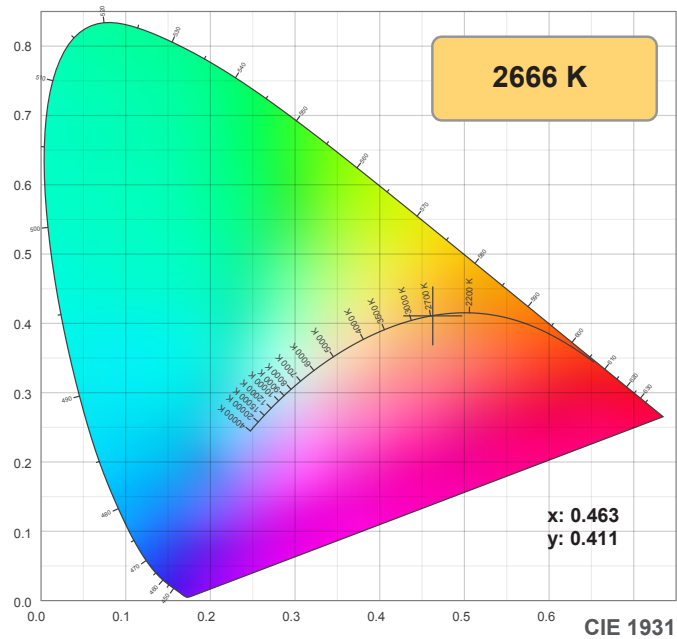


WIRING DIAGRAM

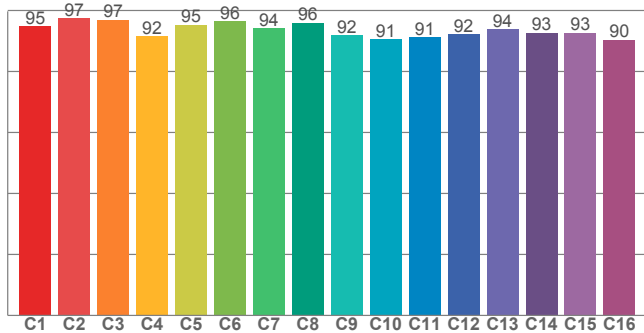


Note: specifications are representative of the diode type and not a particular tape light article.

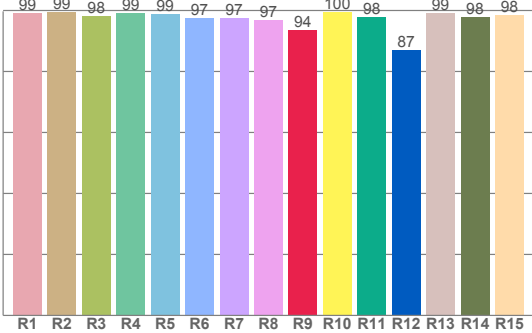
2700K



TM30: 93.5



CRI: 98.3 (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
99.1	99.4	98.2	99.2	98.7	97.4	97.5	96.8	93.5	99.6	97.9	87.1	99.1	97.9	98.5

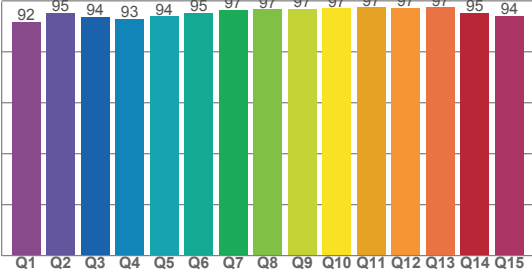
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.9	97.4	96.9	91.6	95.3	96.4	94.1	95.9	91.9	90.6	91.3	92.3	93.8	92.7	92.7	90.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.6	95.3	93.6	92.9	93.8	95.3	96.5	96.7	96.9	97.0	97.5	97.2	97.4	95.4	94.1

CQS: 94.8



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 division from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2666 K	98.3	93.5	93.5	99.4	94.8	0.463	0.411	0.264	0.352	-0.0002

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

2700K

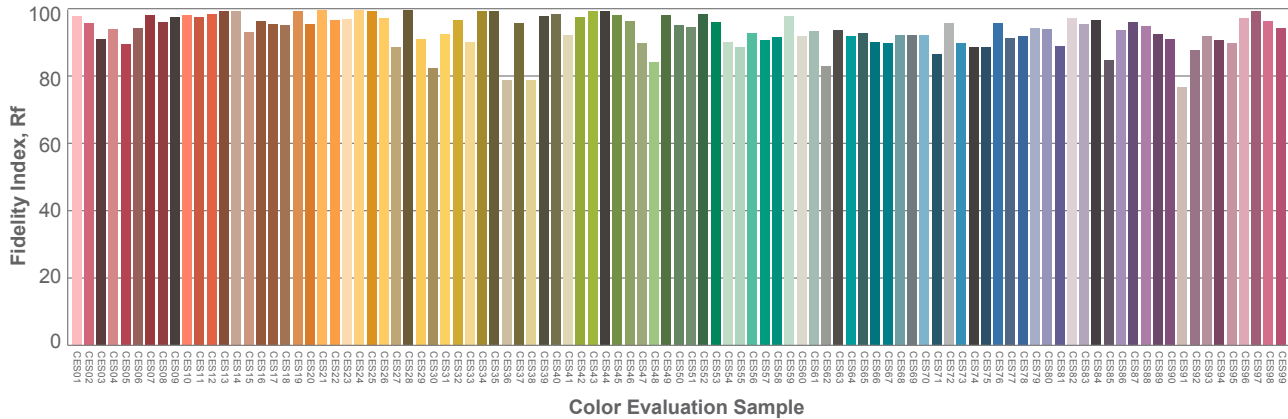
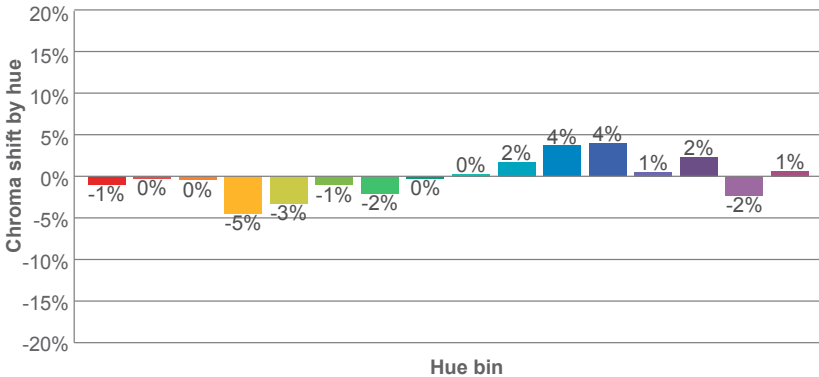
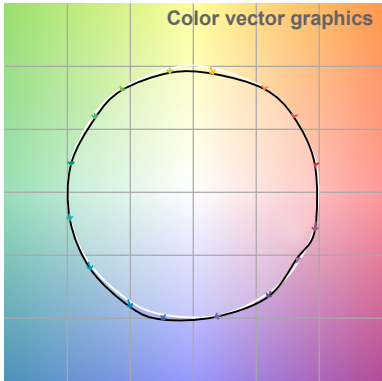
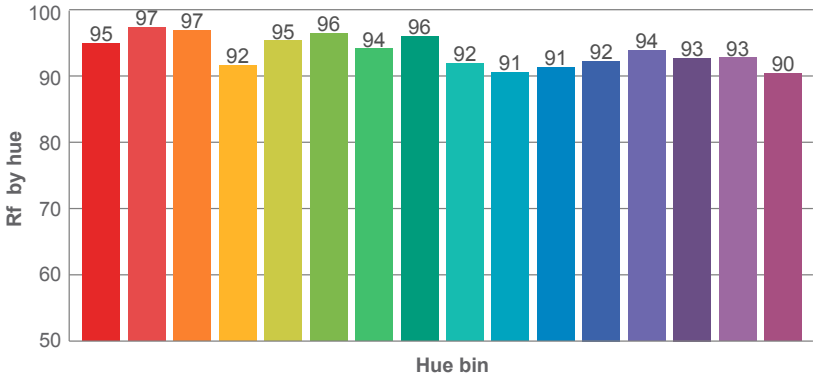
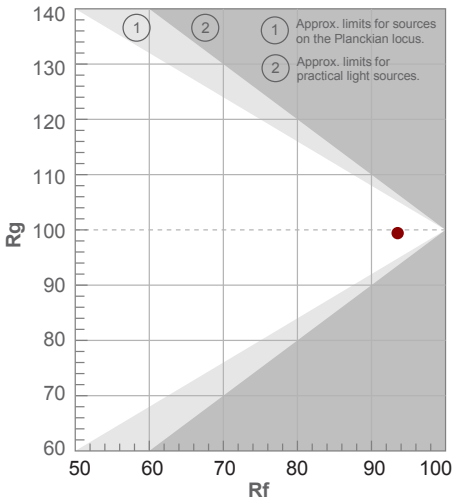
Rf 93.5

Fidelity index Rf

Rg 99.4

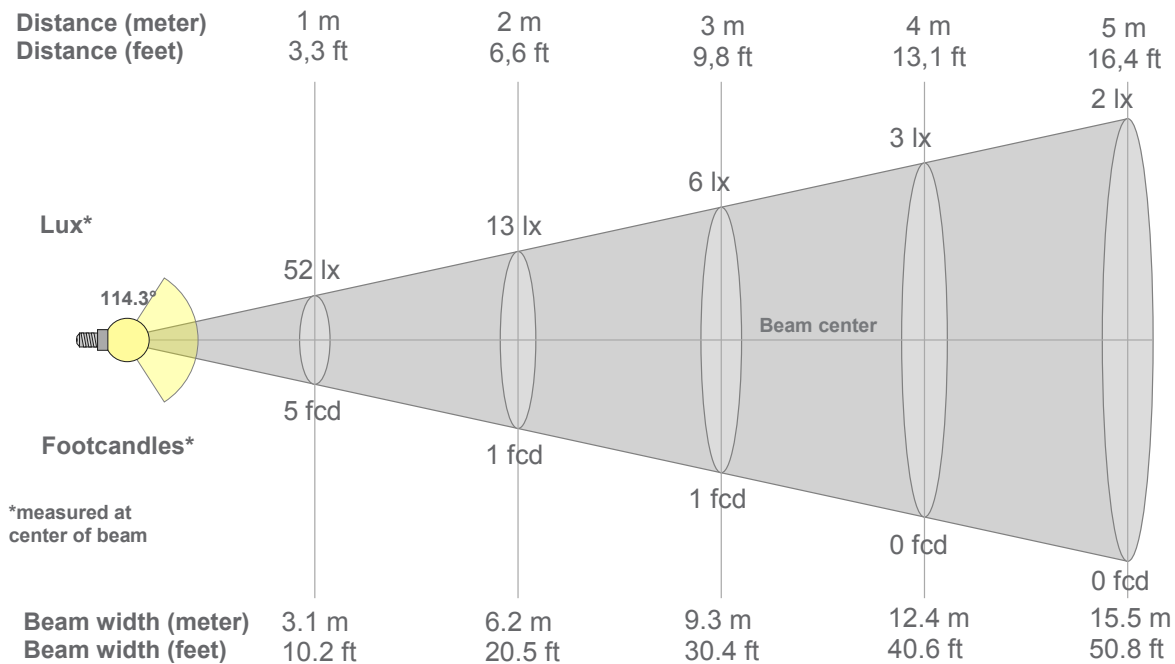
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	1%
2	97	0%	0%
3	97	0%	0%
4	92	-5%	-3%
5	95	-3%	0%
6	96	-1%	2%
7	94	-2%	3%
8	96	0%	2%
9	92	0%	4%
10	91	2%	6%
11	91	4%	5%
12	92	4%	-1%
13	94	1%	-4%
14	93	2%	-4%
15	93	-2%	0%
16	90	1%	-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
52lx	13lx	6lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
4.8fcd	1.2fcd	0.5fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	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°
52.1	51.8	51.0	49.8	48.1	46.1	43.8	41.2	38.2	35.0	31.5	27.7	23.8	19.6	15.3	10.9	6.8	3.3	1.2	0.4
100%	99%	98%	96%	92%	89%	84%	79%	73%	67%	60%	53%	46%	38%	29%	21%	13%	6%	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°
52.1	51.8	51.0	49.8	48.1	46.1	43.8	41.2	38.2	35.0	31.5	27.7	23.8	19.6	15.3	10.9	6.8	3.3	1.2	0.4
100%	99%	98%	96%	92%	89%	84%	79%	73%	67%	60%	53%	46%	38%	29%	21%	13%	6%	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°
52.1	51.8	51.2	50.2	48.6	46.6	44.2	41.5	38.4	35.0	31.5	27.8	23.8	19.7	15.5	11.3	7.2	3.7	1.2	0.3
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	60%	53%	46%	38%	30%	22%	14%	7%	2%	1%

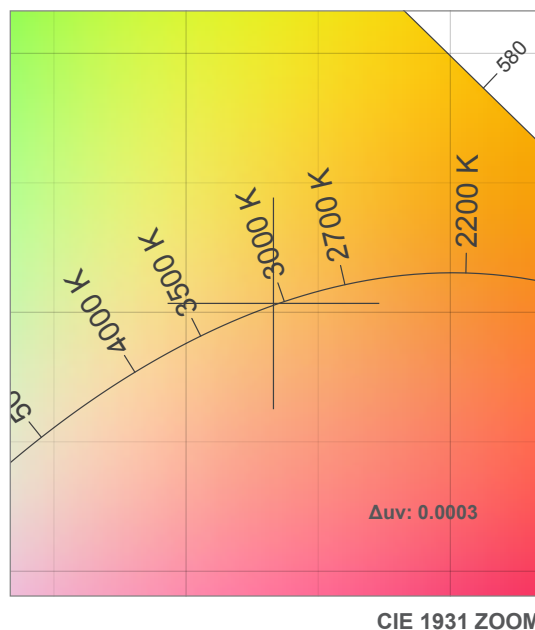
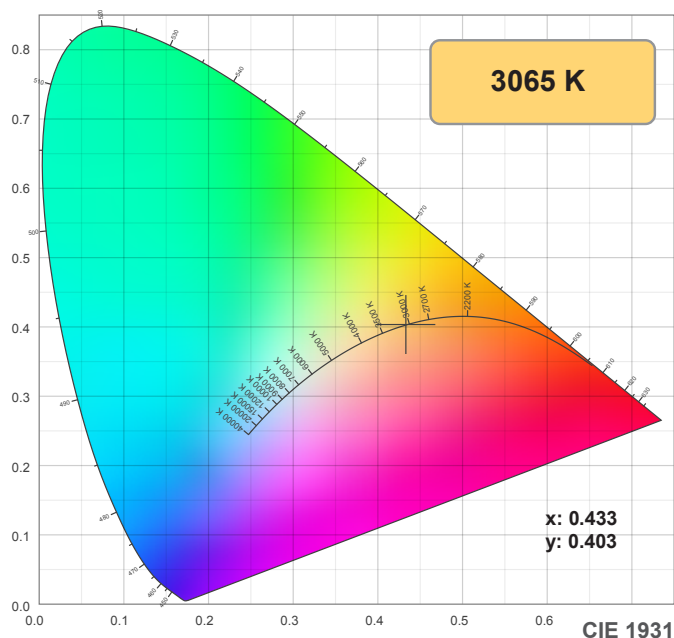
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
52.1	51.8	51.2	50.2	48.6	46.6	44.2	41.5	38.4	35.0	31.5	27.8	23.8	19.7	15.5	11.3	7.2	3.7	1.2	0.3
100%	100%	98%	96%	93%	89%	85%	80%	74%	67%	60%	53%	46%	38%	30%	22%	14%	7%	2%	1%

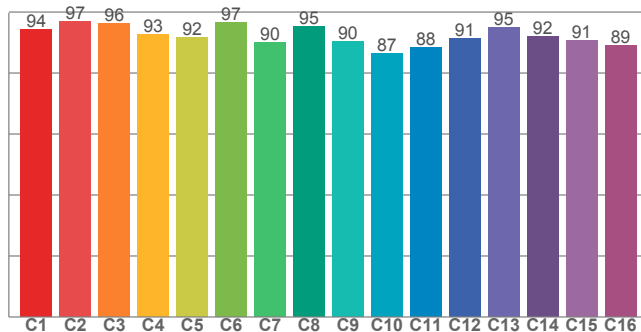
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114.3°	164.7°	179°	75.9%	51.3%

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

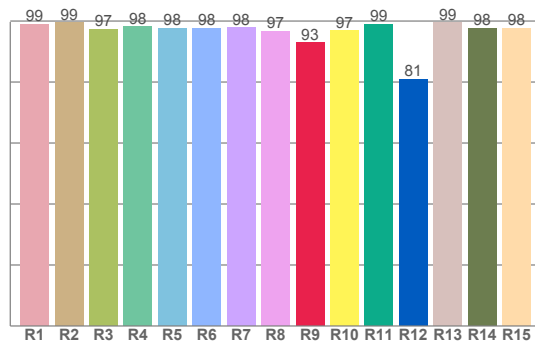
3000K



TM30: 92.4



CRI: 97.9 (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
99.0	99.4	97.3	98.1	97.7	97.6	97.7	96.6	92.9	96.8	99.0	80.9	99.4	97.6	97.6

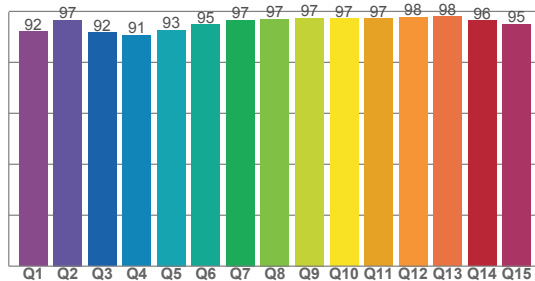
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.3	96.8	96.2	92.6	91.7	96.7	90.2	95.3	90.5	86.5	88.4	91.4	95.0	92.1	90.8	88.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.1	96.7	91.8	90.7	92.8	94.9	96.7	97.0	97.4	97.2	97.3	97.8	98.1	96.5	95.0

CQS: 94.6



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
3065 K	97.9	92.9	92.4	99.3	94.6	0.433	0.403	0.248	0.347	0.0003

3000K

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

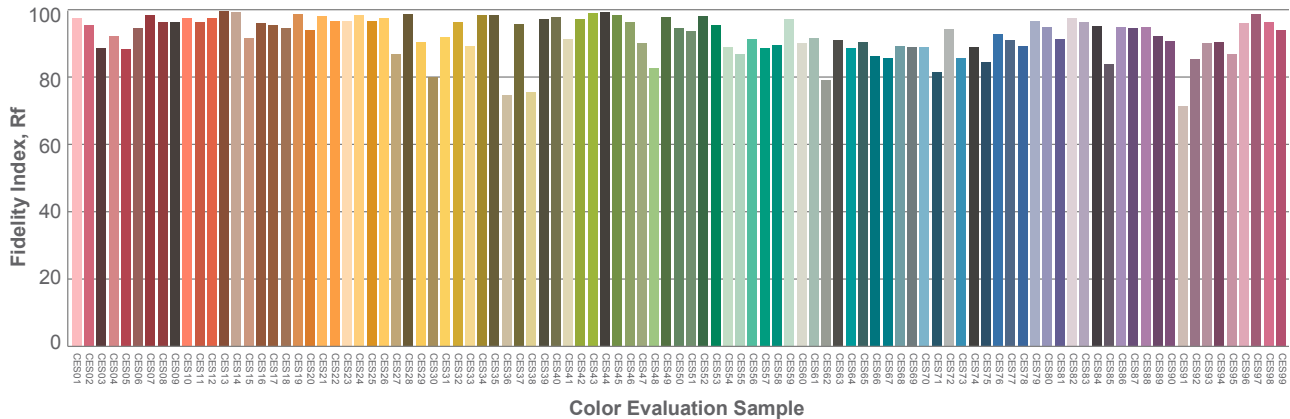
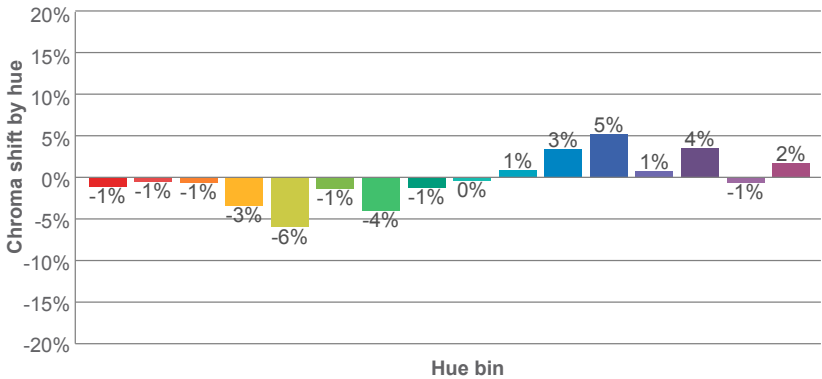
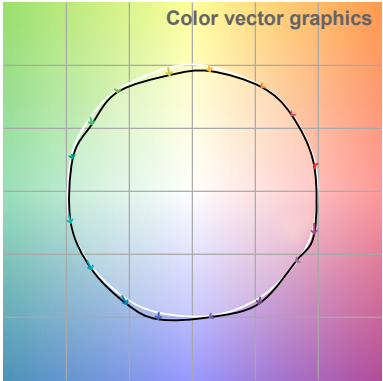
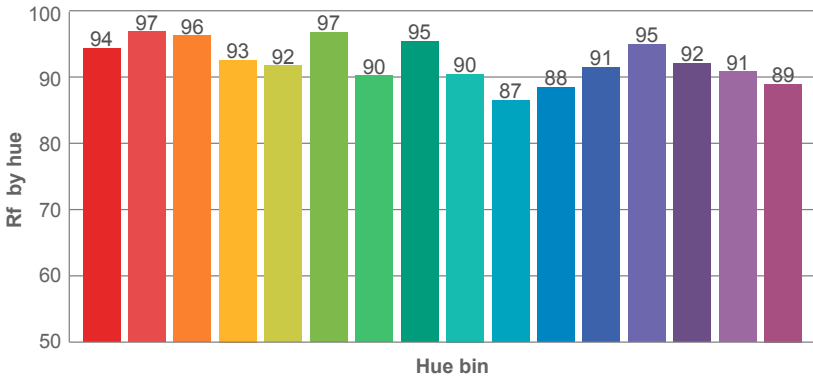
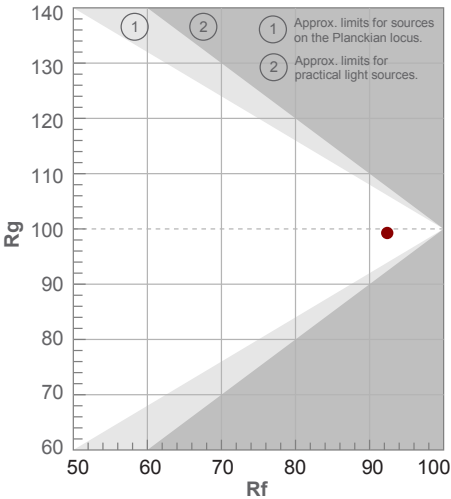
Rf 92.4

Fidelity index Rf

Rg 99.3

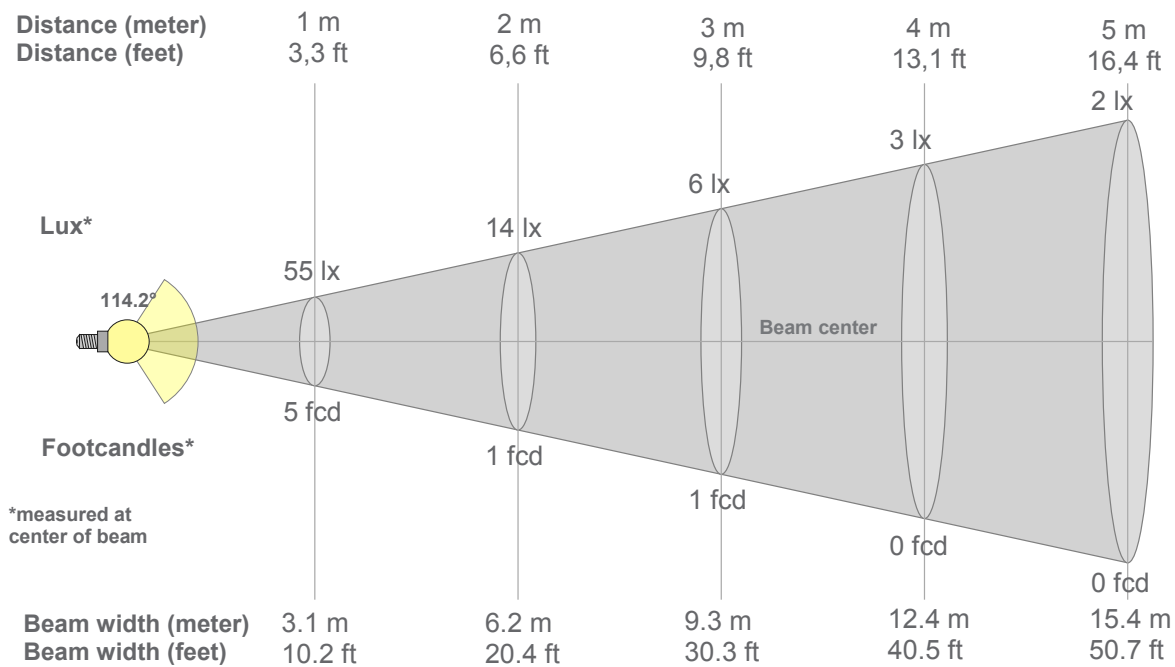
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	1%
2	97	-1%	0%
3	96	-1%	0%
4	93	-3%	-2%
5	92	-6%	0%
6	97	-1%	1%
7	90	-4%	4%
8	95	-1%	2%
9	90	0%	6%
10	87	1%	7%
11	88	3%	7%
12	91	5%	0%
13	95	1%	-3%
14	92	4%	-4%
15	91	-1%	-2%
16	89	2%	-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
55lx	14lx	6lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
5.1fcd	1.3fcd	0.6fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	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°
54.6	54.3	53.7	52.5	51.0	49.0	46.6	43.8	40.7	37.2	33.1	29.0	24.9	20.5	16.0	11.5	7.3	3.6	1.2	0.4
100%	100%	98%	96%	93%	90%	85%	80%	75%	68%	61%	53%	46%	38%	29%	21%	13%	7%	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°
54.6	54.3	53.7	52.5	51.0	49.0	46.6	43.8	40.7	37.2	33.1	29.0	24.9	20.5	16.0	11.5	7.3	3.6	1.2	0.4
100%	100%	98%	96%	93%	90%	85%	80%	75%	68%	61%	53%	46%	38%	29%	21%	13%	7%	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°
54.6	54.3	53.6	52.3	50.6	48.4	45.9	43.1	40.0	36.6	32.8	29.0	24.9	20.6	16.2	11.8	7.6	3.9	1.2	0.3
100%	99%	98%	96%	93%	89%	84%	79%	73%	67%	60%	53%	46%	38%	30%	22%	14%	7%	2%	0%

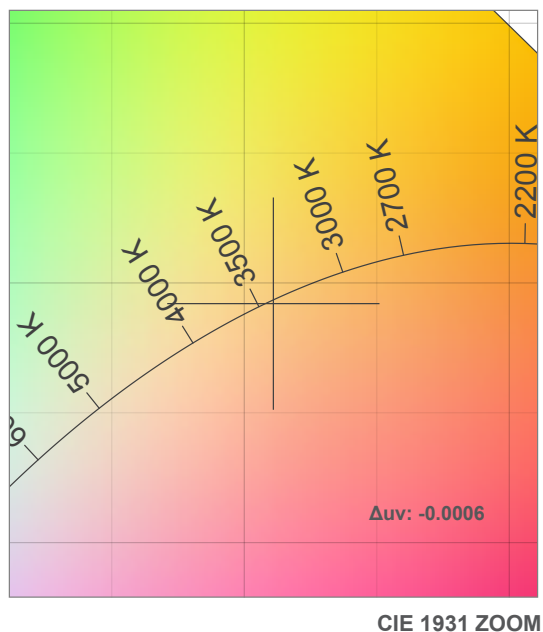
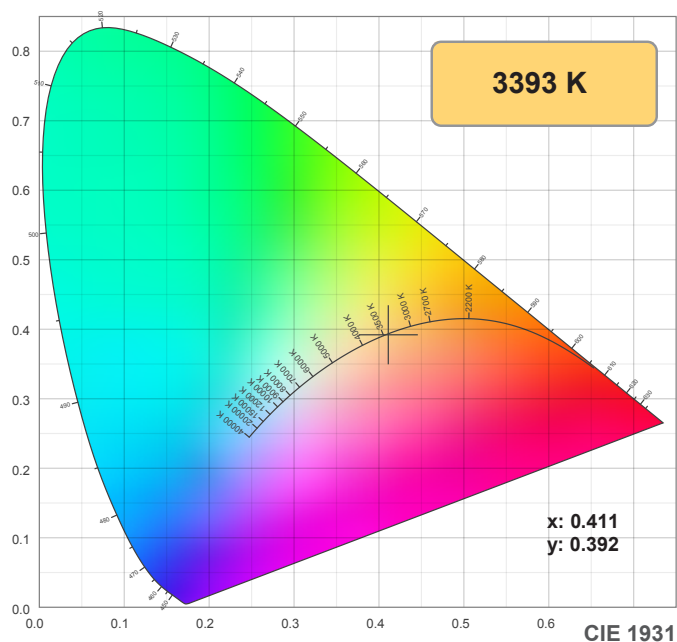
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
54.6	54.3	53.6	52.3	50.6	48.4	45.9	43.1	40.0	36.6	32.8	29.0	24.9	20.6	16.2	11.8	7.6	3.9	1.2	0.3
100%	99%	98%	96%	93%	89%	84%	79%	73%	67%	60%	53%	46%	38%	30%	22%	14%	7%	2%	0%

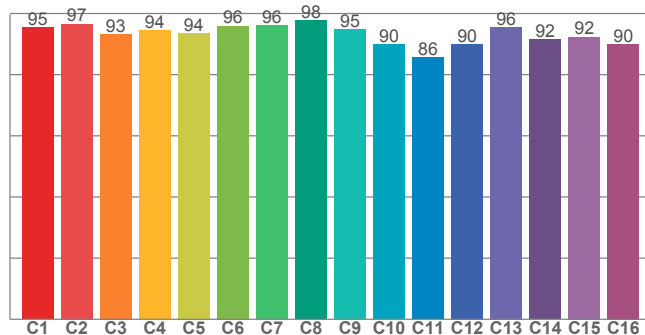
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114.2°	165.1°	178.8°	75.8%	51.3%

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

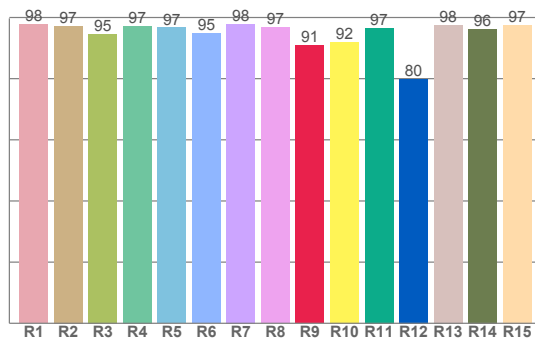
3500K



TM30: 93.2



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
97.7	97.2	94.6	97.2	96.7	94.8	98.0	96.8	90.9	91.9	96.5	79.9	97.6	96.3	97.5

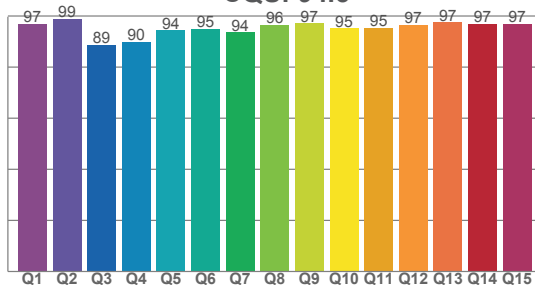
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95.4	96.6	93.2	94.4	93.6	96.0	96.0	97.7	94.8	89.8	85.7	90.0	95.5	91.6	92.4	90.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97.0	98.9	88.8	89.9	94.4	95.0	93.6	96.4	97.1	95.2	95.4	96.5	97.5	96.8	96.9

CQS: 94.5



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
3393 K	96.6	90.9	93.2	101.5	94.5	0.411	0.392	0.239	0.342	-0.0006

3500K

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

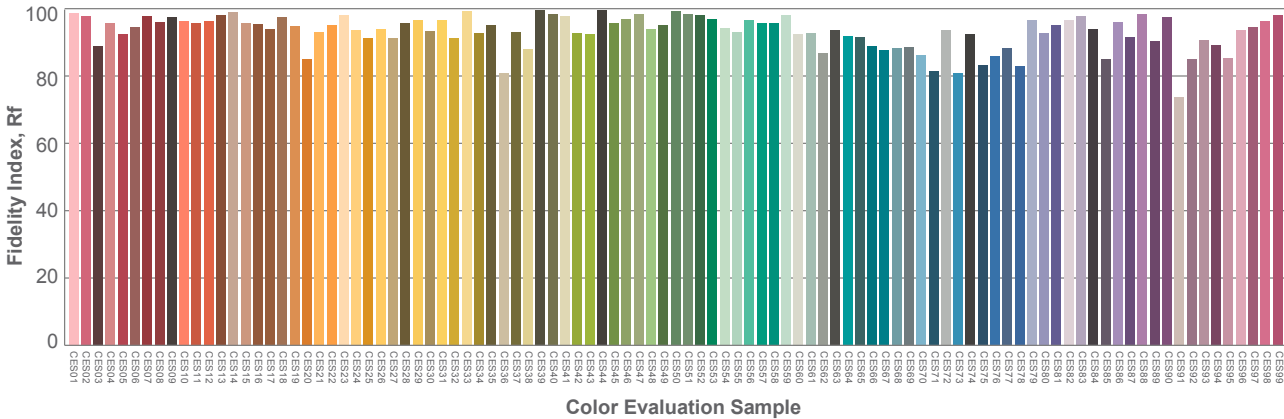
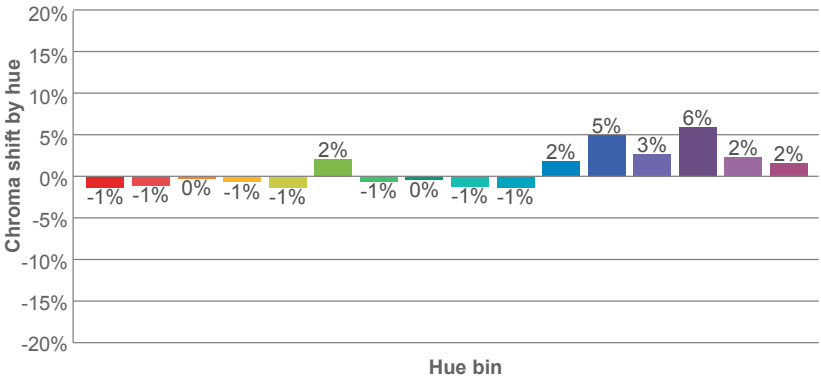
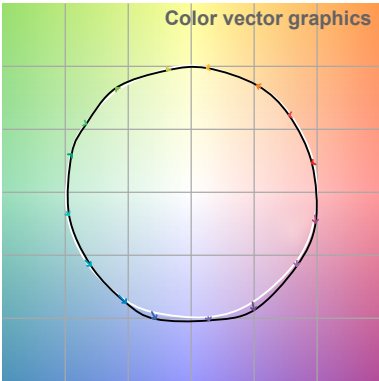
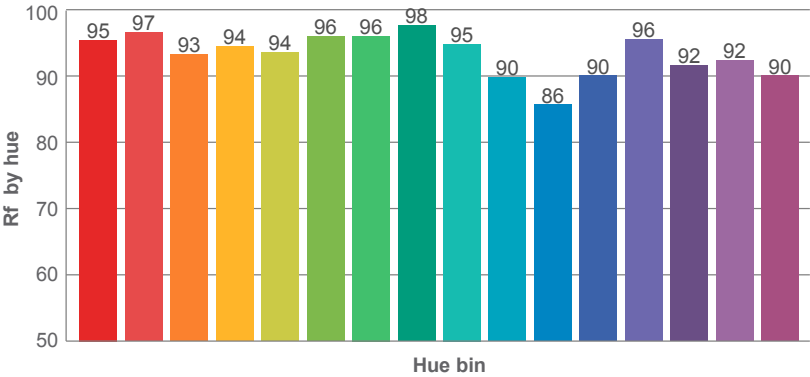
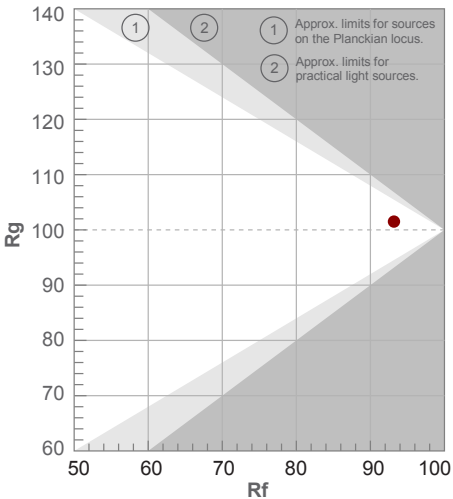
Rf 93.2

Fidelity index Rf

Rg 101.5

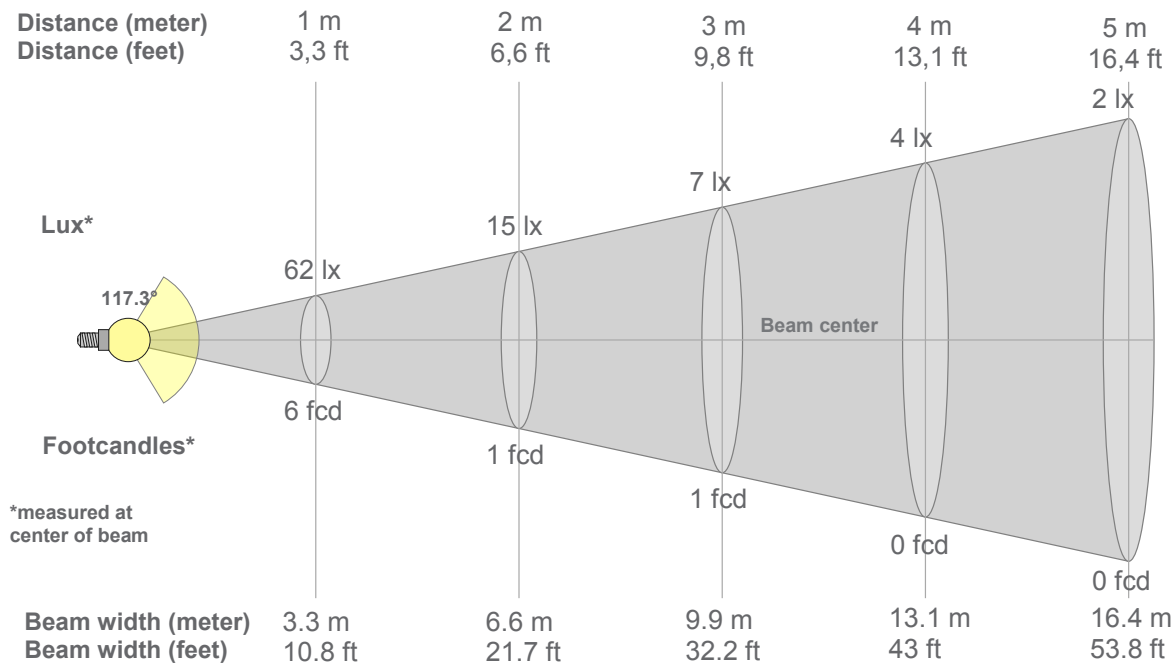
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	0%
2	97	-1%	1%
3	93	0%	3%
4	94	-1%	2%
5	94	-1%	2%
6	96	2%	0%
7	96	-1%	0%
8	98	0%	-1%
9	95	-1%	3%
10	90	-1%	6%
11	86	2%	8%
12	90	5%	4%
13	96	3%	0%
14	92	6%	-2%
15	92	2%	-3%
16	90	2%	-6%



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
62lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
5.7fcd	1.4fcd	0.6fcd	0.4fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	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°
61.7	61.4	60.7	59.5	57.8	55.6	53.0	50.0	46.6	42.9	38.8	34.4	29.6	24.6	19.3	14.0	8.9	4.6	1.5	0.3
100%	99%	98%	96%	94%	90%	86%	81%	76%	69%	63%	56%	48%	40%	31%	23%	14%	7%	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°
61.7	61.4	60.7	59.5	57.8	55.6	53.0	50.0	46.6	42.9	38.8	34.4	29.6	24.6	19.3	14.0	8.9	4.6	1.5	0.3
100%	99%	98%	96%	94%	90%	86%	81%	76%	69%	63%	56%	48%	40%	31%	23%	14%	7%	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°
61.7	61.6	60.9	59.7	58.0	55.8	53.1	50.0	46.6	42.8	38.7	34.3	29.6	24.8	19.7	14.6	9.7	5.3	1.9	0.4
100%	100%	99%	97%	94%	90%	86%	81%	76%	69%	63%	56%	48%	40%	32%	24%	16%	9%	3%	1%

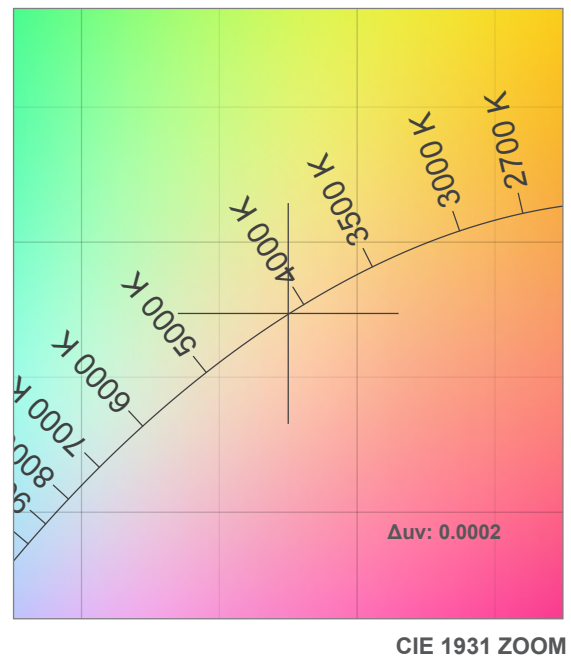
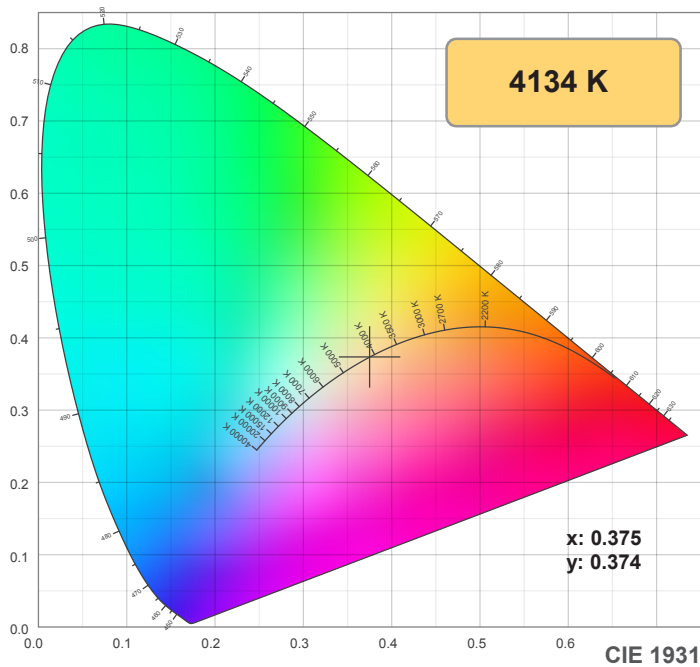
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
61.7	61.6	60.9	59.7	58.0	55.8	53.1	50.0	46.6	42.8	38.7	34.3	29.6	24.8	19.7	14.6	9.7	5.3	1.9	0.4
100%	100%	99%	97%	94%	90%	86%	81%	76%	69%	63%	56%	48%	40%	32%	24%	16%	9%	3%	1%

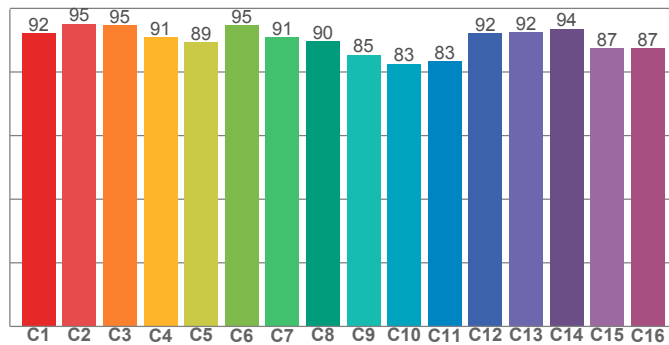
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
117.3°	167°	180.7°	75.1%	50.4%

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

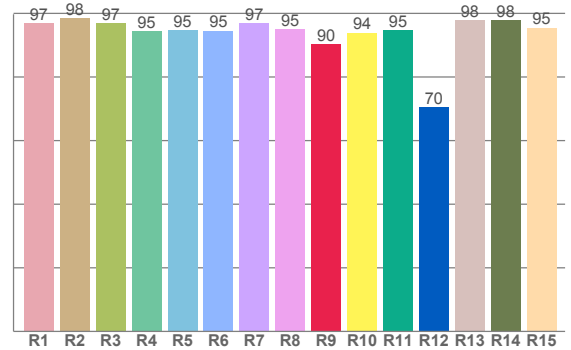
4200K



TM30: 89.8



CRI: 96.0 (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
96.9	98.4	96.8	94.5	94.6	94.6	96.8	95.1	90.3	94.0	94.6	70.5	97.8	97.8	95.5

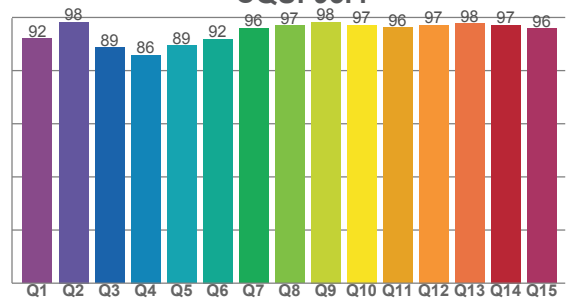
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.1	95.1	94.7	90.9	89.4	94.7	90.9	89.6	85.4	82.6	83.3	92.1	92.4	93.6	87.4	87.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.1	98.3	88.6	85.9	89.5	91.9	95.9	97.0	98.3	97.2	96.2	97.1	97.8	97.1	95.8

CQS: 93.4



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
4134 K	96.0	90.3	89.8	98.2	93.4	0.375	0.374	0.223	0.333	0.0002

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

4200K

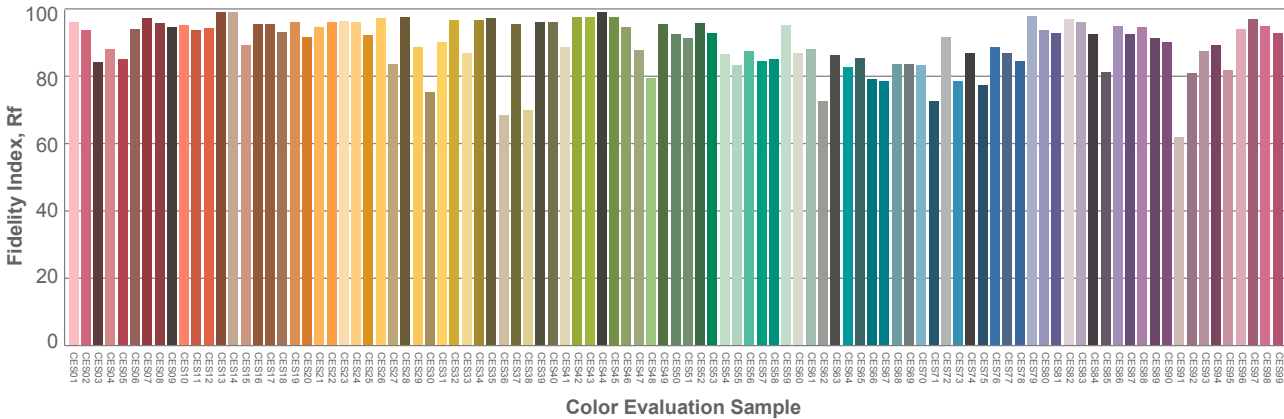
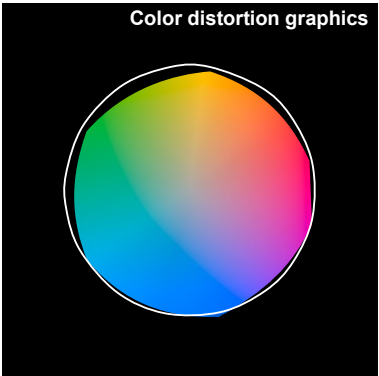
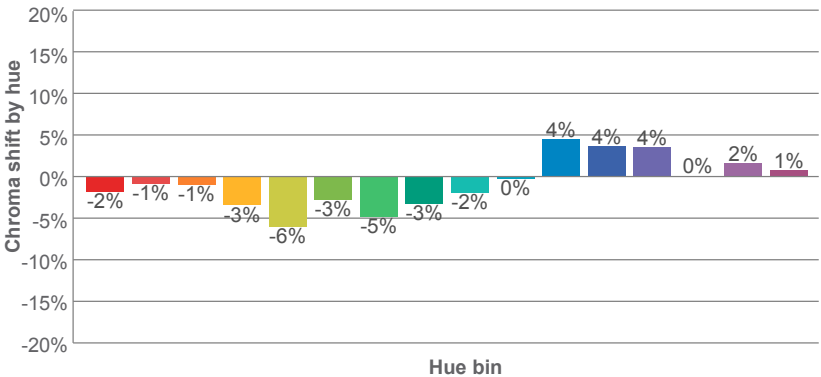
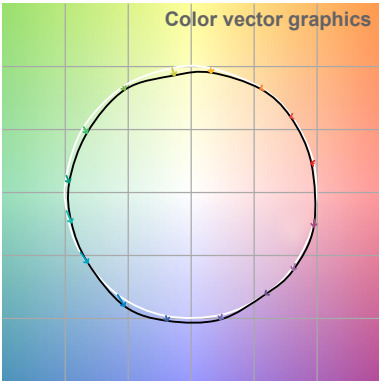
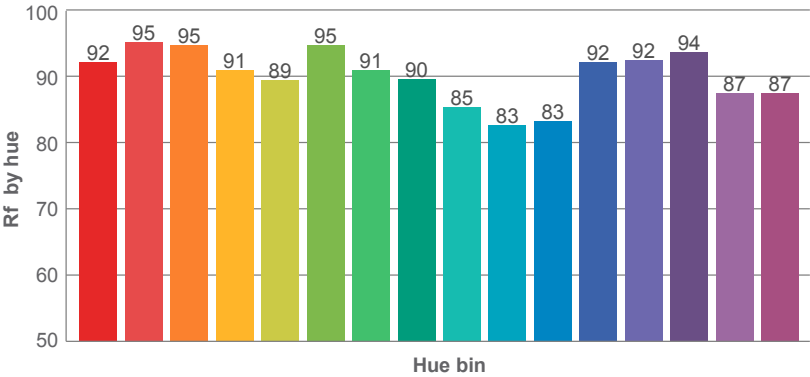
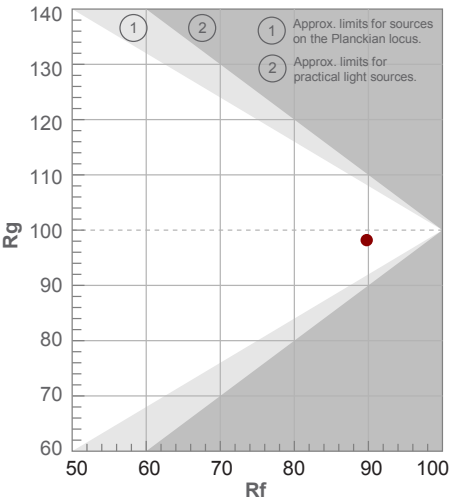
Rf 89.8

Fidelity index Rf

Rg 98.2

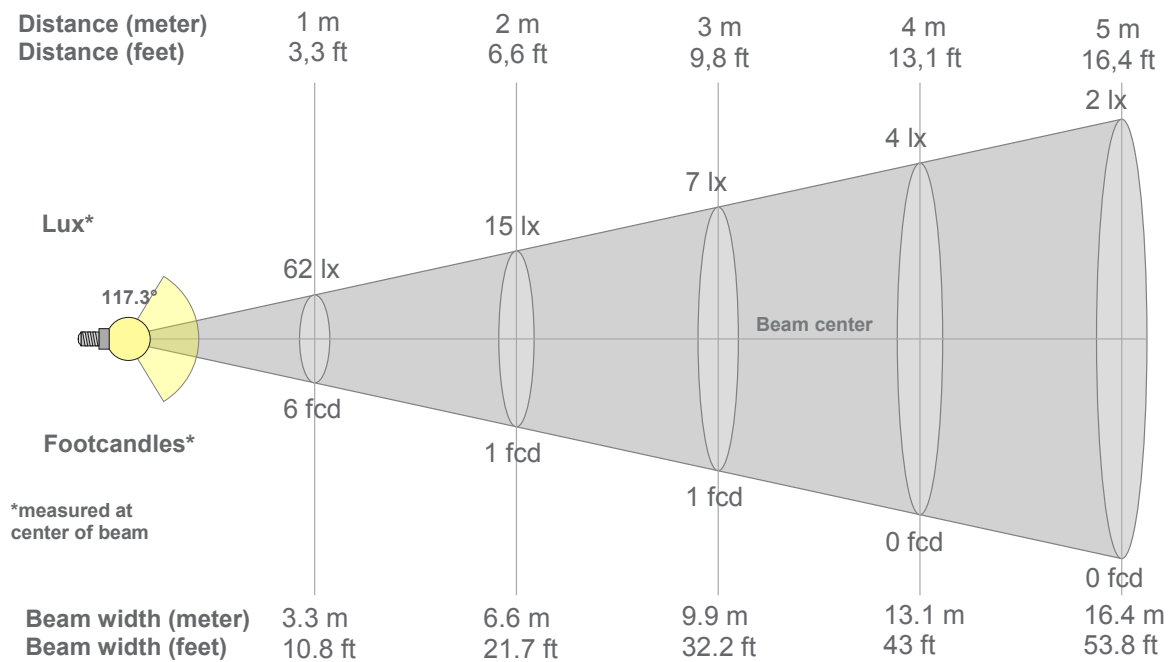
Gammut index Rg

Hue Bin	Rr	Graphic shifts (%)	
		Chroma	Hue
1	92	-2%	1%
2	95	-1%	0%
3	95	-1%	1%
4	91	-3%	-1%
5	89	-6%	-1%
6	95	-3%	0%
7	91	-5%	2%
8	90	-3%	5%
9	85	-2%	10%
10	83	0%	10%
11	83	4%	9%
12	92	4%	2%
13	92	4%	-2%
14	94	0%	-1%
15	87	2%	-5%
16	87	1%	-6%



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
62lx	15lx	7lx	4lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
5.7fcd	1.4fcd	0.6fcd	0.4fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	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°
61.7	61.4	60.7	59.5	57.8	55.6	53.0	50.0	46.6	42.9	38.8	34.4	29.6	24.6	19.3	14.0	8.9	4.6	1.5	0.3
100%	99%	98%	96%	94%	90%	86%	81%	76%	69%	63%	56%	48%	40%	31%	23%	14%	7%	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°
61.7	61.4	60.7	59.5	57.8	55.6	53.0	50.0	46.6	42.9	38.8	34.4	29.6	24.6	19.3	14.0	8.9	4.6	1.5	0.3
100%	99%	98%	96%	94%	90%	86%	81%	76%	69%	63%	56%	48%	40%	31%	23%	14%	7%	2%	1%

Intensities in 180° c-plane

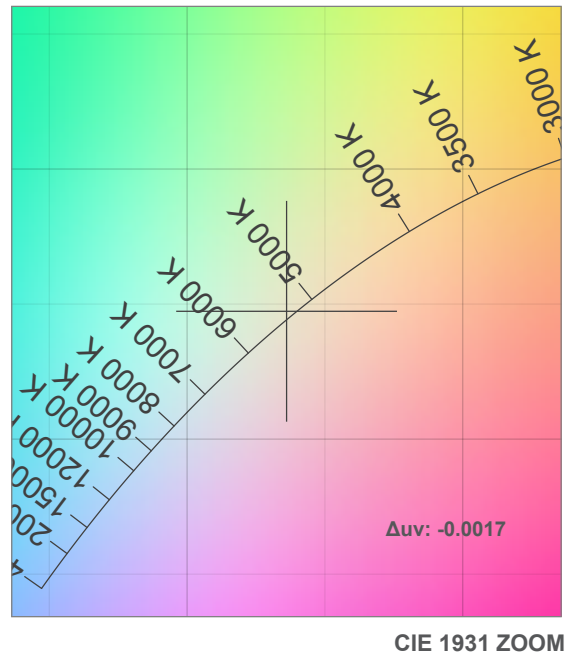
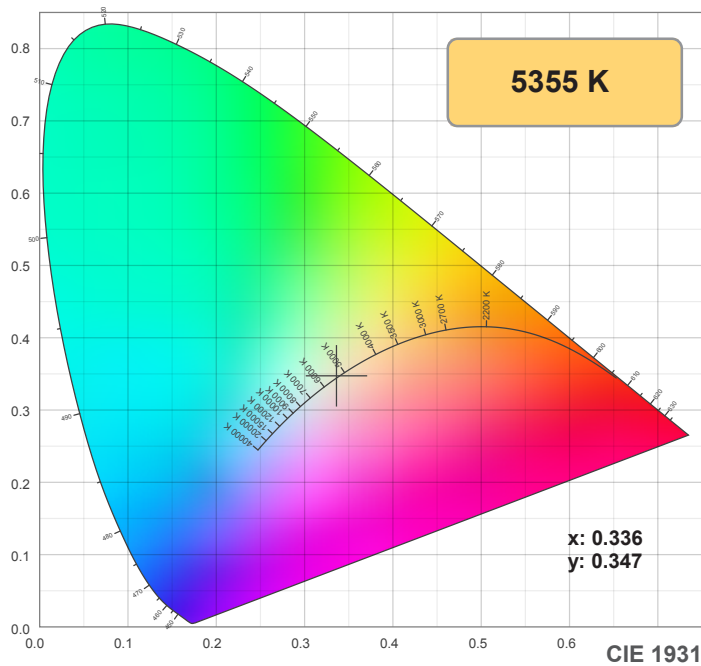
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
61.7	61.6	60.9	59.7	58.0	55.8	53.1	50.0	46.6	42.8	38.7	34.3	29.6	24.8	19.7	14.6	9.7	5.3	1.9	0.4
100%	100%	99%	97%	94%	90%	86%	81%	76%	69%	63%	56%	48%	40%	32%	24%	16%	9%	3%	1%

Intensities in 270° c-plane

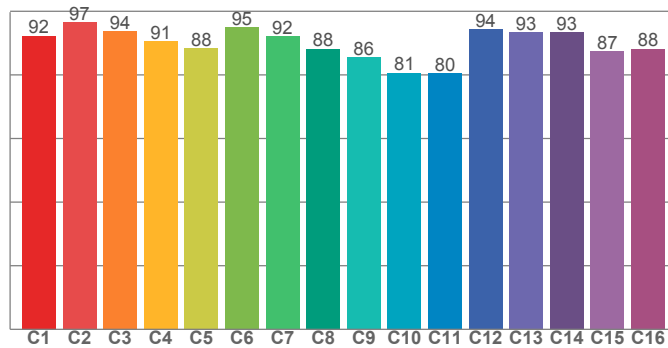
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
61.7	61.6	60.9	59.7	58.0	55.8	53.1	50.0	46.6	42.8	38.7	34.3	29.6	24.8	19.7	14.6	9.7	5.3	1.9	0.4
100%	100%	99%	97%	94%	90%	86%	81%	76%	69%	63%	56%	48%	40%	32%	24%	16%	9%	3%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
117.3°	167°	180.7°	75.1%	50.4%

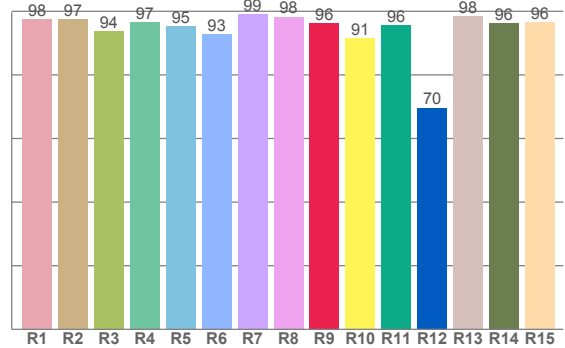
5000K



TM30: 89.7



CRI: 96.3 (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	97.4	93.8	96.7	95.3	92.8	99.0	98.3	96.3	91.5	95.6	69.7	98.3	96.2	96.5

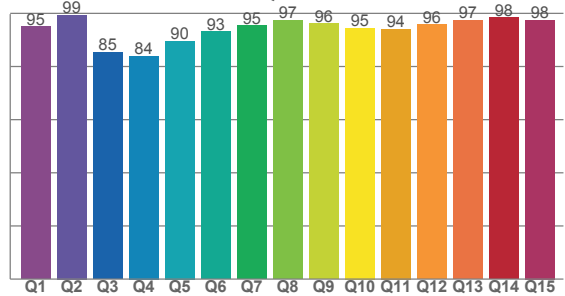
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.3	96.6	93.8	90.6	88.4	95.0	92.1	88.2	85.5	80.7	80.4	94.2	93.4	93.4	87.5	88.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95.0	99.4	85.4	83.9	89.6	93.2	95.3	97.5	96.1	94.5	94.1	95.8	97.4	98.3	97.5

CQS: 92.7



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
5355 K	96.3	96.3	89.7	98.9	92.7	0.336	0.347	0.207	0.321	-0.0017

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

5000K

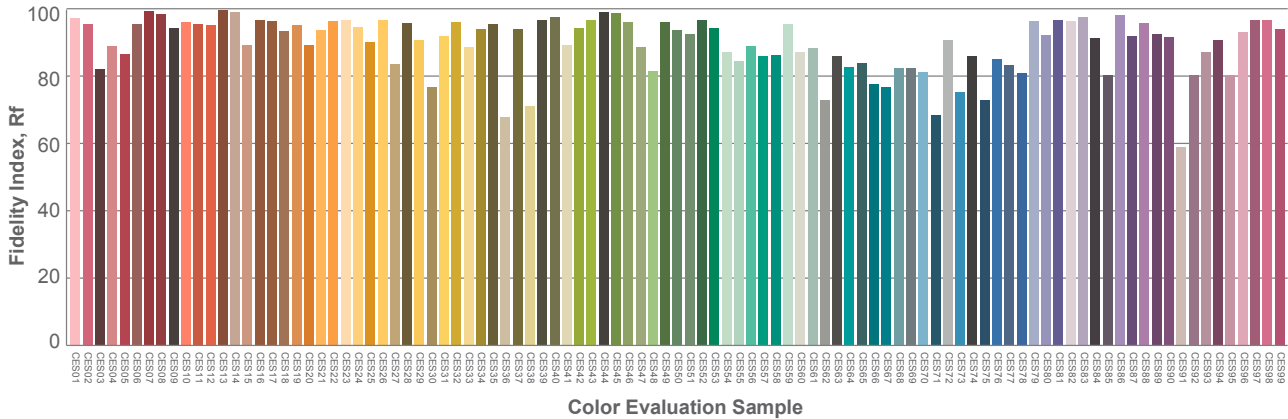
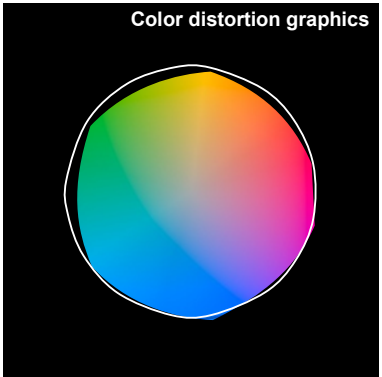
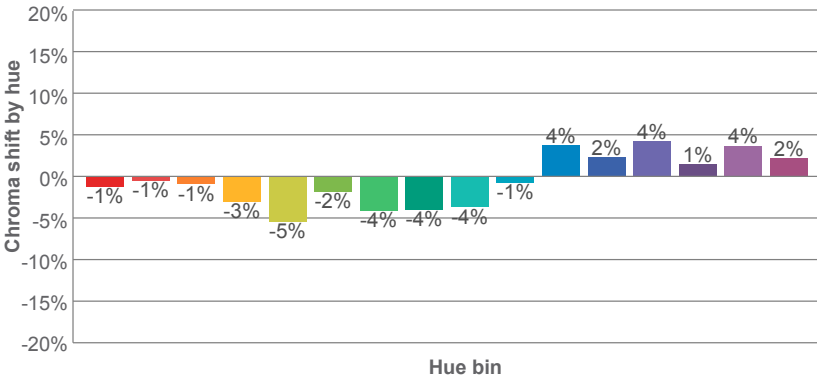
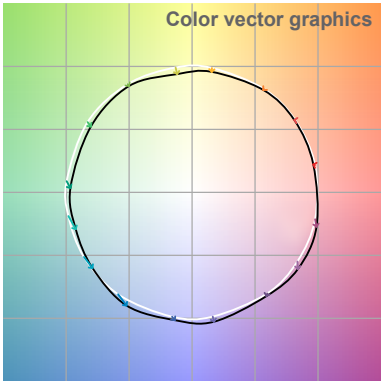
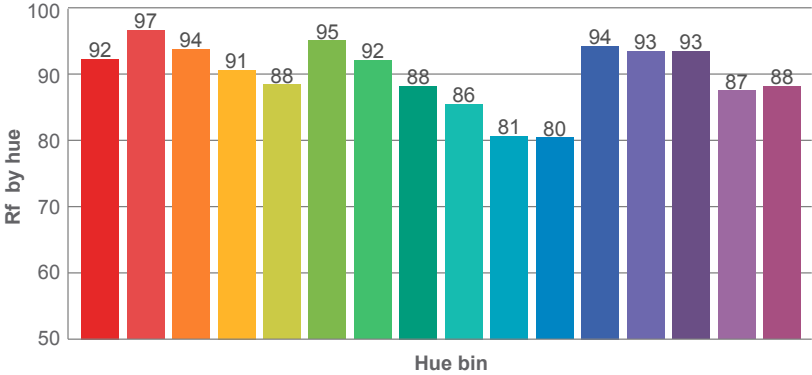
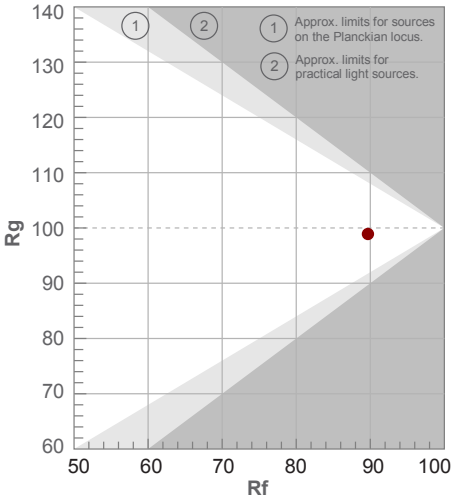
Rf 89.7

Fidelity index Rf

Rg 98.9

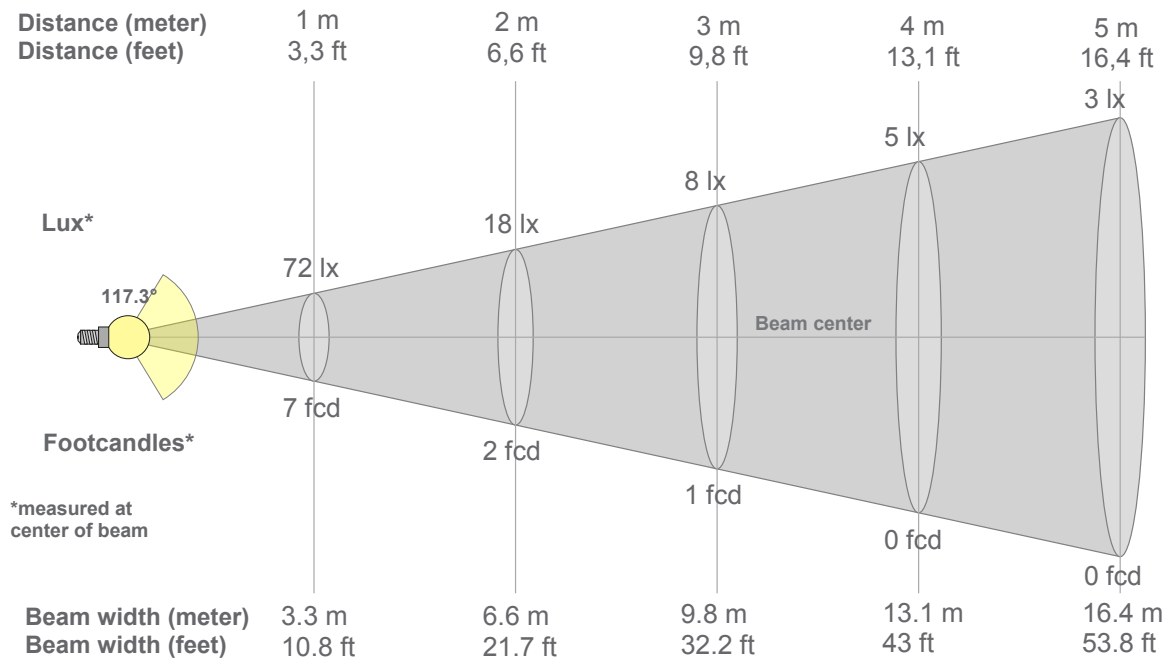
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	92	-1%	1%
2	97	-1%	1%
3	94	-1%	0%
4	91	-3%	0%
5	88	-5%	0%
6	95	-2%	0%
7	92	-4%	1%
8	88	-4%	5%
9	86	-4%	11%
10	81	-1%	11%
11	80	4%	11%
12	94	2%	3%
13	93	4%	0%
14	93	1%	-2%
15	87	4%	-5%
16	88	2%	-6%



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
72lx	18lx	8lx	5lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
6.7fcd	1.7fcd	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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
72.1	71.8	71.0	69.7	67.8	65.3	62.3	58.6	54.6	50.1	45.2	40.1	34.5	28.7	22.8	16.7	10.9	5.7	1.8	0.4
100%	100%	98%	97%	94%	91%	86%	81%	76%	69%	63%	56%	48%	40%	32%	23%	15%	8%	3%	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°
72.1	71.8	71.0	69.7	67.8	65.3	62.3	58.6	54.6	50.1	45.2	40.1	34.5	28.7	22.8	16.7	10.9	5.7	1.8	0.4
100%	100%	98%	97%	94%	91%	86%	81%	76%	69%	63%	56%	48%	40%	32%	23%	15%	8%	3%	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°
72.1	71.8	70.8	69.2	67.1	64.5	61.4	58.0	54.0	49.6	44.9	39.9	34.6	29.0	23.1	17.1	11.4	6.2	2.1	0.4
100%	100%	98%	96%	93%	89%	85%	80%	75%	69%	62%	55%	48%	40%	32%	24%	16%	9%	3%	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°
72.1	71.8	70.8	69.2	67.1	64.5	61.4	58.0	54.0	49.6	44.9	39.9	34.6	29.0	23.1	17.1	11.4	6.2	2.1	0.4
100%	100%	98%	96%	93%	89%	85%	80%	75%	69%	62%	55%	48%	40%	32%	24%	16%	9%	3%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
117.3°	167.4°	180.5°	74.6%	50.1%