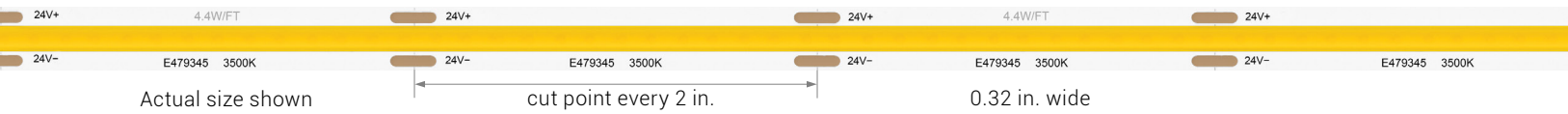


ALLOY LED® Specifications

PrimaLine® 4.4 COB HD



PrimaLine 4.4 COB HD offers enhanced, seamless illumination with ~50% more LEDs per foot than our standard COB tape. At 4.4 watts per foot, this high-output dot-free, uniform lighting solution is perfect for a wide range of residential and commercial applications.

- Industry-leading 93+ CRI (Color Rendering Index)
- High R9 and R13 values for superb rendering of warm tones
- Compatible with our UL Recognized AmpChamp tape-to-wire connectors
- 6-year warranty

TECHNICAL INFORMATION

Stocked Color Temperature	2700K, 3000K, 3500K, 4000K
Power Consumption per Foot	4.4 Watts/120mA
Input Voltage	24V DC
Diodes per foot	146
Tape Height	0.09 in.
Beam Angle	144°
Field Cuttable (UL 2108)	Every 2 in.
Maximum Run Length	14 ft.
Dimmable	Yes
Diode Type	COB

Mounting	3M™ Self-Adhesive Tape (Non-porous)
Operating Temperature	-4° F to 140° F
Ambient Temperature	-4° F to 158° F
Environment	Indoor, Dry
Certifications	UL 2108 Listed, RoHS
Standards	Certified to the CA Energy Commission in accordance with the Title 24 JA8 2019 std.
Warranty	6 Year Limited

Each spool comes with 36 in. CL2 rated 20 AWG tinned lead wires at each end.

PRODUCT INFORMATION

Item Number	Voltage	Color Temperature	Lumens per Foot	CRI	Spool Length
AL-01-63-2401	24V DC	2700K	375.2	93	20 ft.
AL-01-63-2402	24V DC	3000K	418.2	93	20 ft.
AL-01-63-2408	24V DC	3500K	436.4	93	20 ft.
AL-01-63-2403	24V DC	4000K	471.8	91	20 ft.
AL-01-63-2441	24V DC	2700K	375.2	93	100 ft.
AL-01-63-2442	24V DC	3000K	418.2	93	100 ft.
AL-01-63-2448	24V DC	3500K	436.4	93	100 ft.
AL-01-63-2443	24V DC	4000K	471.8	91	100 ft.

VOLTAGE DROP GUIDANCE CHART

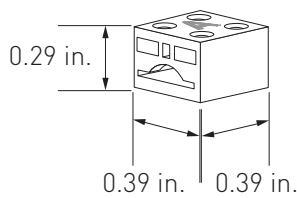
Standard Non-XT 24V Voltage Drop and Wire Length Distance Chart (3% Drop or 24V)

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 one mounting clip, 3M® adhesive backing, and pre-attached 6 inch in-wall-rated 18 AWG lead wire.

Straight AmpChamp

- AL-01-63-9900
- AL-01-63-9900-10 (10-pack)
- AL-01-63-9900-100 (100-pack)

AmpChamp Jumper and Power Feed Kits

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



- AL-01-63-9900-3IN-JK (3 in. jumper wire)
- AL-01-63-9900-6IN-JK (6 in. jumper wire)
- AL-01-63-9900-36IN-JK (36 in. jumper wire)

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

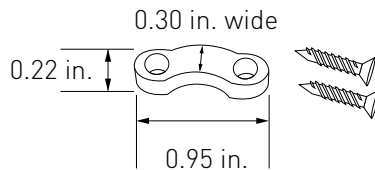


- AL-01-63-9900-36IN-PK (36 in. power feed wire)
- AL-01-63-9900-8FT-PK (8 ft. power feed wire)

Wire and Tape Light Management

We recommend the use of the wire harness.

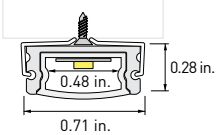
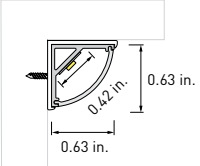
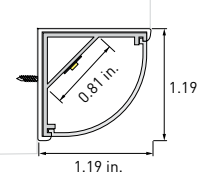
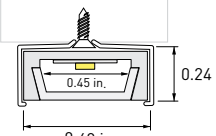
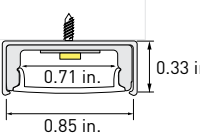
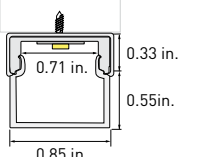
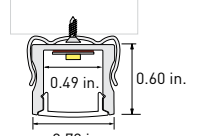
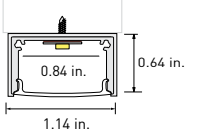
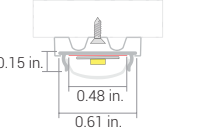
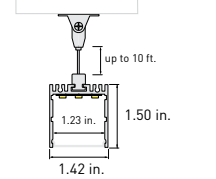
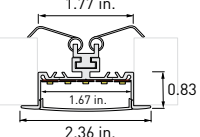
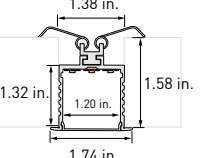
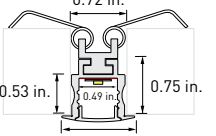
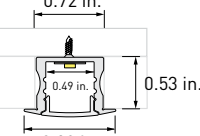
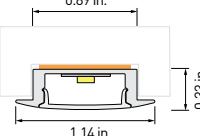
- At least one wire harness at the beginning to secure the lead wire; for longer lead wires, place a harness every 2 ft.



Wire Harness

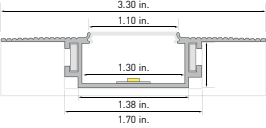
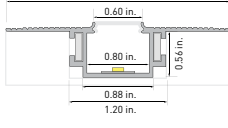
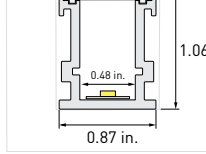
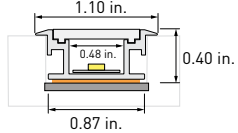
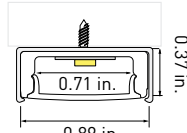
Holds wire in place securely
AL-01-99-9901-10 (10-pack)

Reduced Hotspot Pairings (Hotspot Rating from 0-5)

<p>Surfa 1: Surface-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input type="checkbox"/> AmpChamp</p>	<p>Surfa 2: Corner-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>	<p>Surfa 2X: Corner-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>
<p>Surfa 3: Surface-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input type="checkbox"/> AmpChamp</p>	<p>Surfa 6: Surface-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>	<p>Surfa 6 Surround: Surface-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>
<p>Surfa 7: Surface-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>	<p>Surfa 8: Surface-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>	<p>SurfaFlex 1: Bendable Surface-Mount</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input type="checkbox"/> AmpChamp</p>
<p>Suspan 1 Gen 2: Suspended</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>	<p>Ankr 1: In-Wall</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>	<p>Ankr 2: In-Wall</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>
<p>Ankr 3: In-Wall</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>	<p>Ankr 4: Mud-In</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>	<p>Naro 4: Recessed</p>  <p>Hotspot Rating: 0 <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp</p>

COMPATIBLE CHANNELS (Diagrams below not to scale)

Reduced Hotspot Pairings (Hotspot Rating from 0-5)

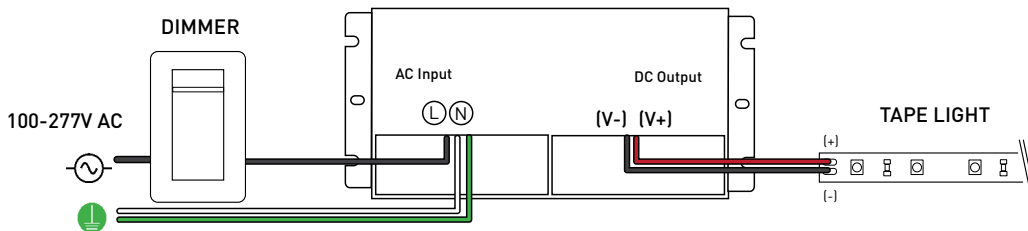
<p>Mudr 2: In-Wall</p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp 	<p>Mudr 1: In-Wall</p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp 	<p>Duro 1: In-Ground</p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp
<p>Duro 2: In-Ground</p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp 	<p>Polymer: Surface-Mount</p>  <p>Hotspot Rating: 0</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Solder <input checked="" type="checkbox"/> Connector <input checked="" type="checkbox"/> AmpChamp 	

ALLOY LED[®] Specifications

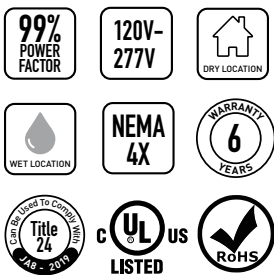
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



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)

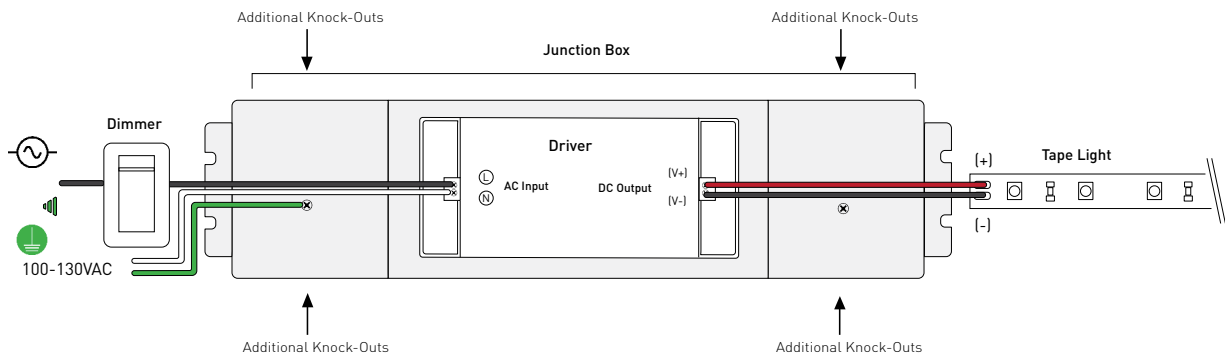
Alloy LED Primavolt® No Minimum Load Dimmable Power Supplies with ETL Listed Junction Box
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with Incandescent, On/Off, ELV and MLV dimmers.



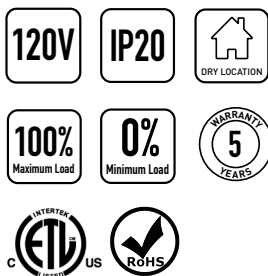
Dry Location Model
White model for 60W and lower



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

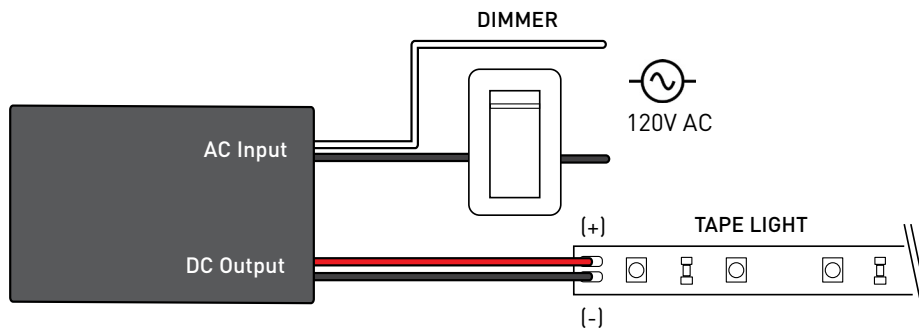
Note: Alloy LED strongly recommends using Listed Class 2 power supplies for all installations. Always install in accordance with local and national electrical code regulations. Inspectors prefer power supply to be used with junction box. For dimmer compatibility, refer to drivers specification sheet.

ALLOY LED[®] Specifications

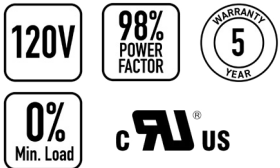
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

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.



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

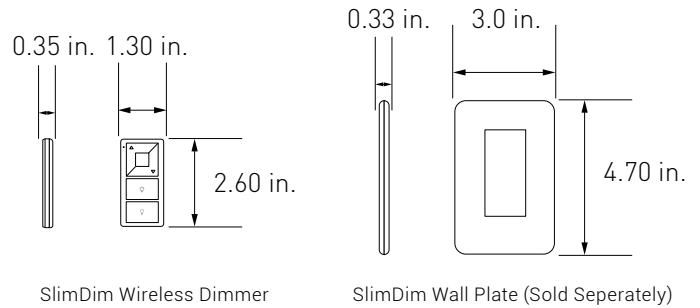
DIMMING ACCESSORIES (SOLD SEPARATELY)

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.

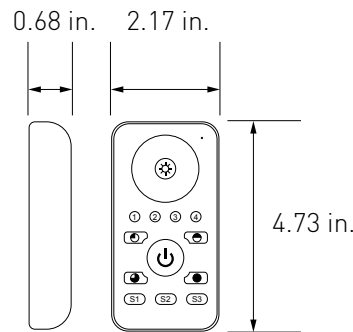
AL-70-01-0001	SlimDim Wireless Dimmer
AL-70-01-0002	Single Color Receiver (96W max.) (sold separately) 
AL-98-07-9950 -FPLATE	SlimDim Wall Plate (sold separately)



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.

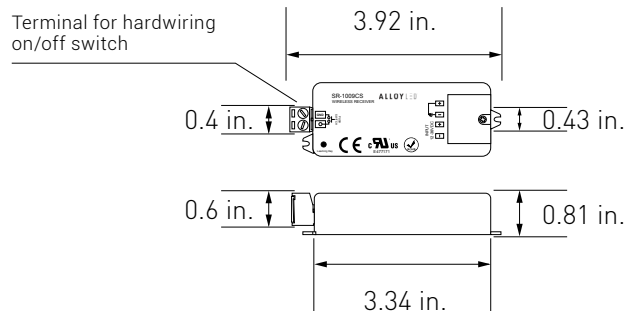
AL-60-03-0001	Remote Control Dimmer Switch
AL-70-01-0002	Single Channel Receiver (sold separately) 
AL-60-03-0004-V2	Wireless Receiver (RGB & RGBW) (sold separately) 



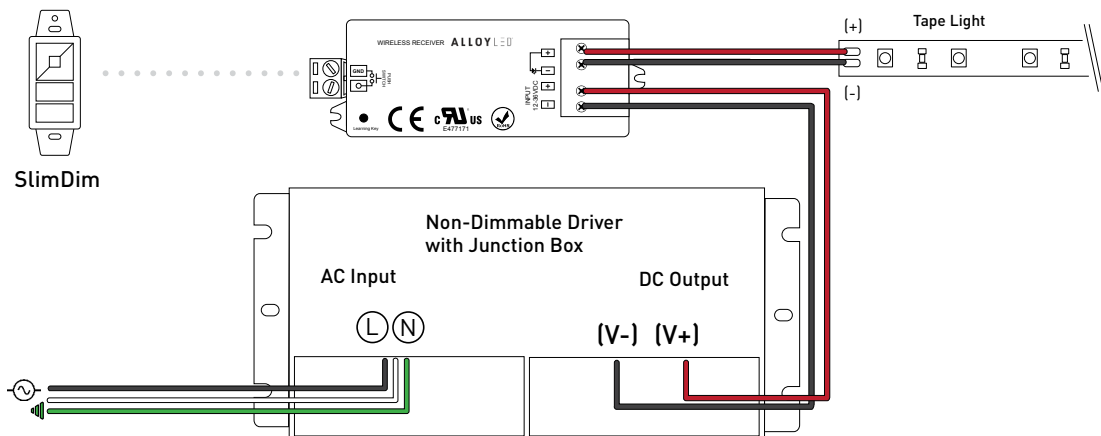
Single Channel Wireless Receiver

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

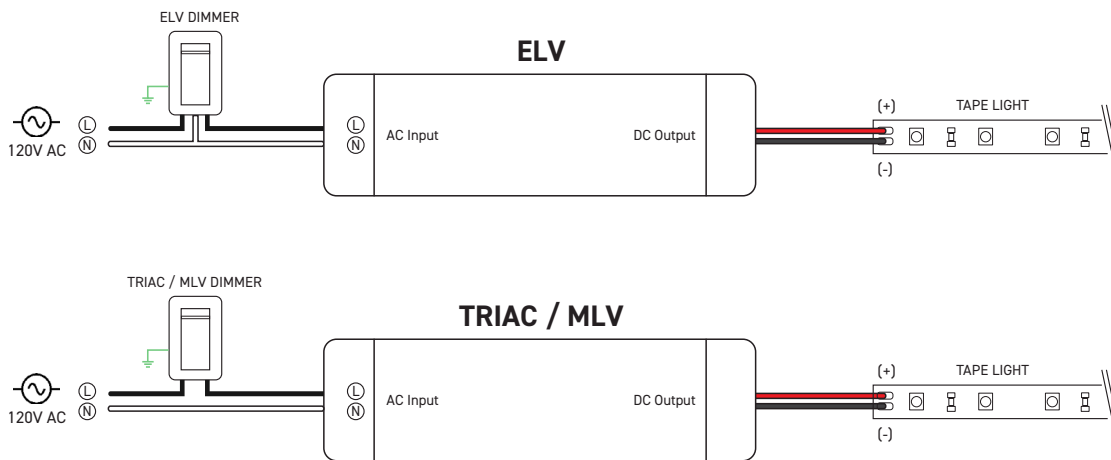
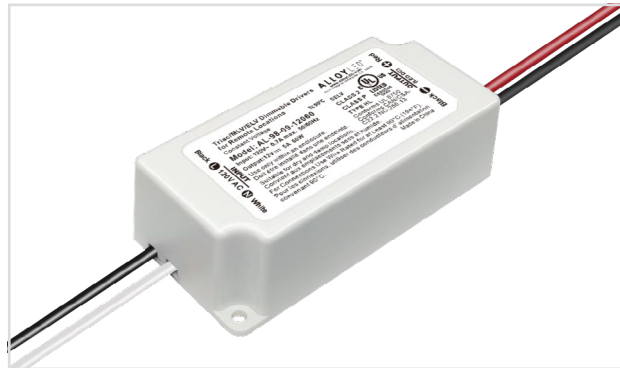


ALLOY LED® Specifications

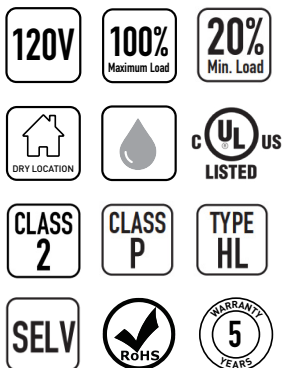
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

Alloy LED TRIAC/MLV/ELV Dimmable Drivers for Remote Locations

Offers stable power in even in the most remote settings. Compatibility with TRIAC, ELV, or MLV dimmers.



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

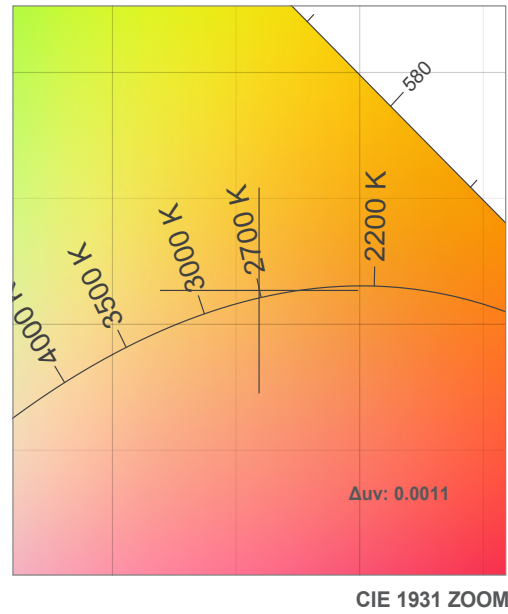
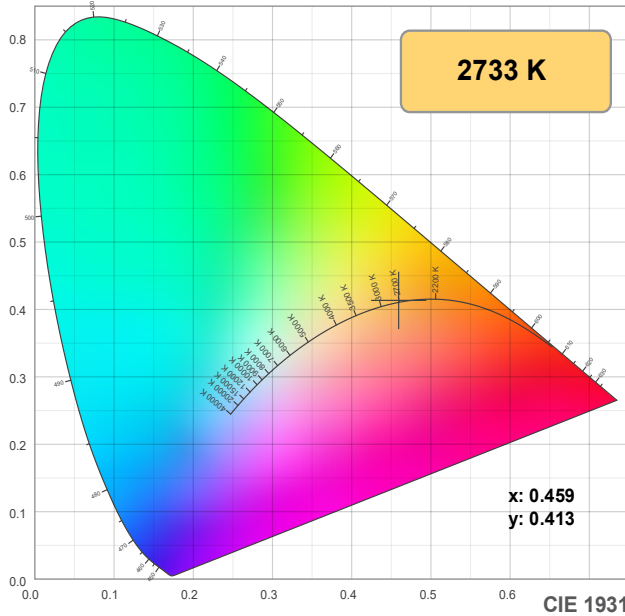


Item Number	Output Voltage	Wattage	Dimensions (L x W x H)	Class 2
AL-98-09-12060	12V DC	60W	3.31 x 1.57 x 0.98	Yes
AL-98-09-24096	24V DC	96W	3.31 x 1.57 x 0.98	Yes

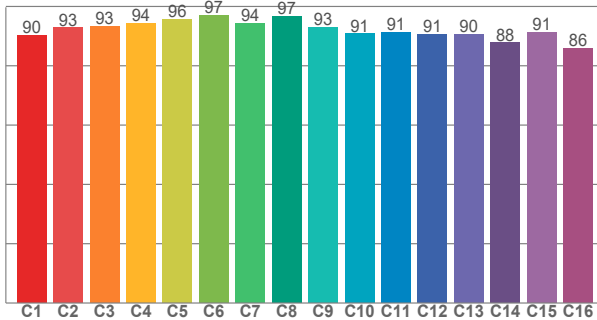
Note: Alloy LED strongly recommends using Listed Class 2 power supplies for all installations. Always install in accordance with local and national electrical code regulations. Inspectors prefer power supply to be used with junction box. For dimmer compatibility, refer to drivers specification sheet.

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

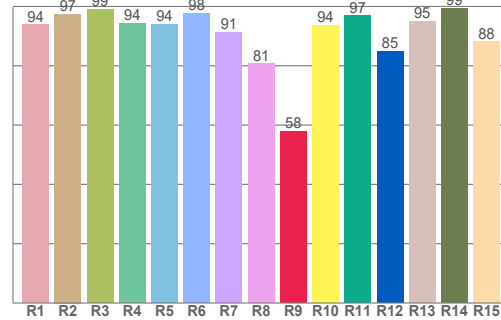
2700K



TM-30: 92.1



CRI: 93.5 (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
93.8	97.5	99.1	94.3	93.9	97.6	91.2	80.7	57.9	93.7	96.9	84.9	95.0	99.5	88.1

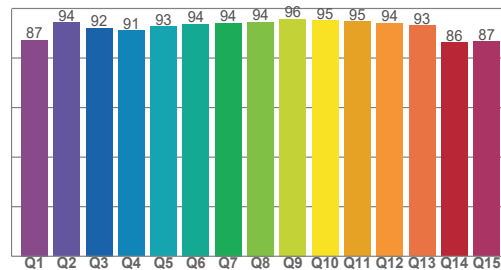
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.1	92.7	93.3	94.2	95.5	96.9	94.2	96.5	92.9	90.7	91.1	90.6	90.5	87.7	91.3	85.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.2	94.3	92.2	91.2	92.7	93.7	94.1	94.5	95.8	95.1	94.8	94.2	93.1	86.2	86.7

CQS: 91.6



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 division from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2733 K	93.5	57.9	92.1	97.4	91.6	0.459	0.413	0.261	0.352	0.0011

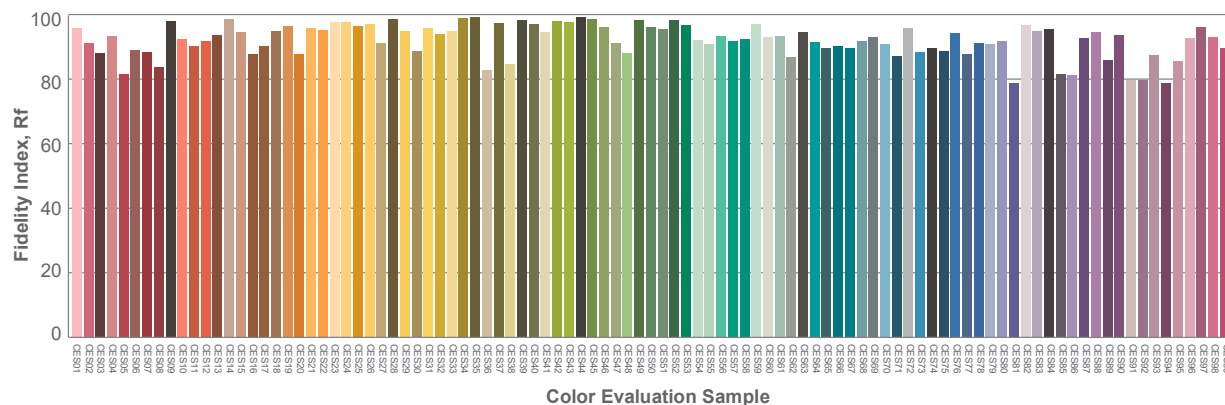
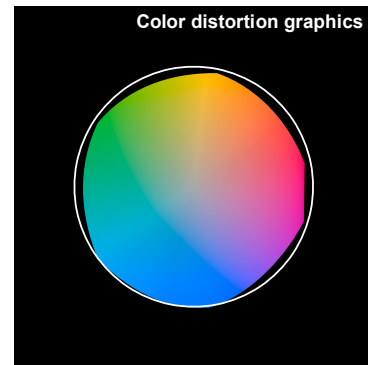
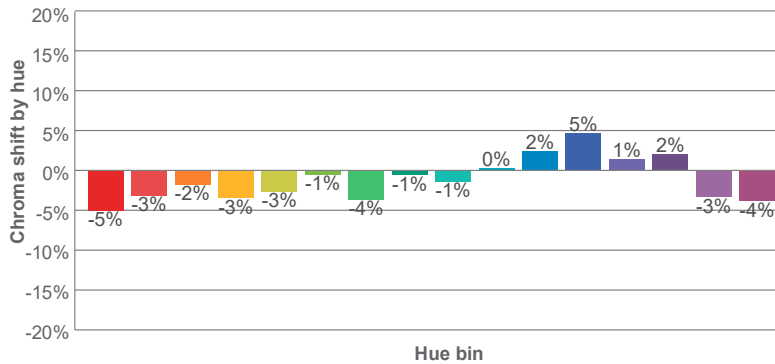
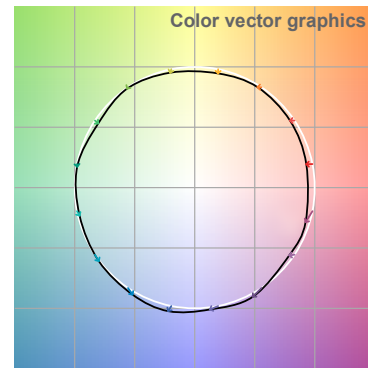
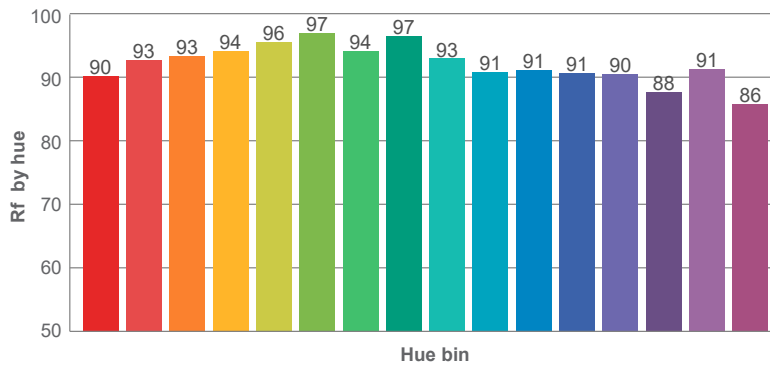
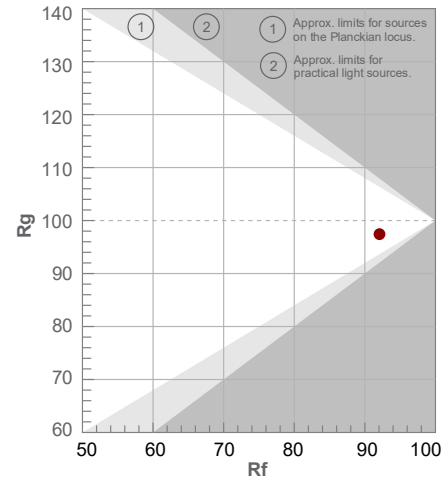
Note: specifications are representative of the diode type and not a particular tape light article.

2700K

Rf 92.1
Fidelity index Rf

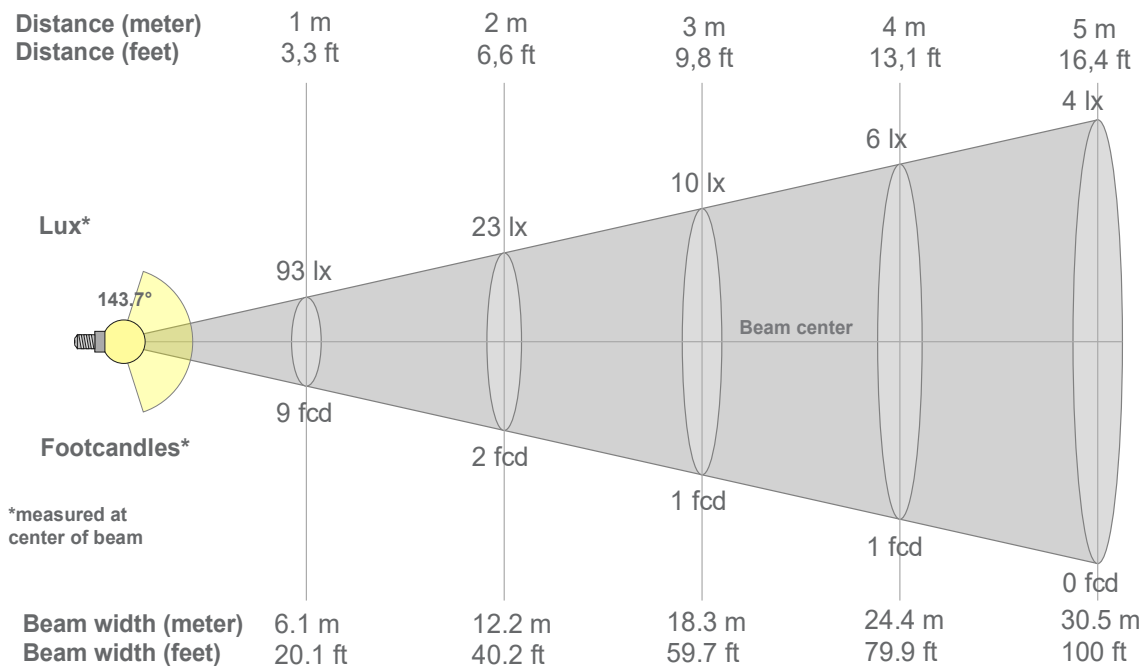
Rg 97.4
Gamut index Rg

Hue Bin	Rr	Shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	93	-3%	2%
3	93	-2%	3%
4	94	-3%	-1%
5	96	-3%	1%
6	97	-1%	1%
7	94	-4%	0%
8	97	-1%	2%
9	93	-1%	4%
10	91	0%	6%
11	91	2%	6%
12	91	5%	-2%
13	90	1%	-7%
14	88	2%	-10%
15	91	-3%	-3%
16	86	-4%	-10%



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	1lx	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	0.1fcd	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°
92.7	92.5	90.7	87.6	83.1	77.6	71.2	64.7	58.3	50.6	38.0	3.8	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7
100%	100%	98%	94%	90%	84%	77%	70%	63%	55%	41%	4%	1%	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°
92.7	90.9	87.5	81.8	74.1	64.2	52.4	39.1	24.6	10.6	1.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100%	98%	94%	88%	80%	69%	57%	42%	27%	11%	2%	1%	1%	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°
92.7	92.5	90.7	87.6	83.1	77.6	71.2	64.7	58.3	50.6	38.0	3.8	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.7
100%	100%	98%	94%	90%	84%	77%	70%	63%	55%	41%	4%	1%	1%	1%	1%	1%	1%	1%	1%

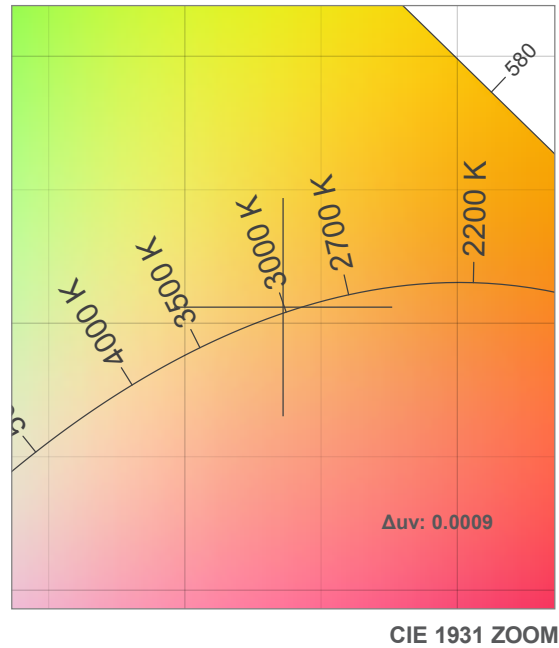
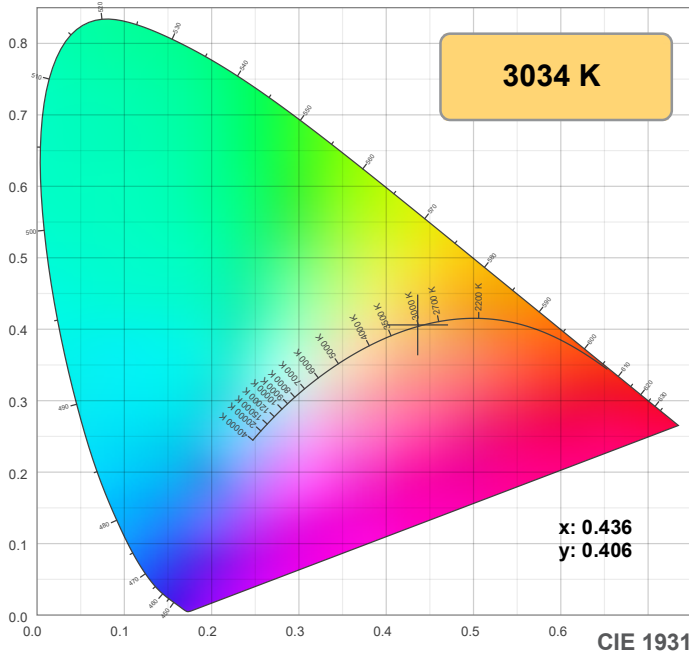
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
92.7	90.9	87.5	81.8	74.1	64.2	52.4	39.1	24.6	10.6	1.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
100%	98%	94%	88%	80%	69%	57%	42%	27%	11%	2%	1%	1%	1%	1%	1%	1%	1%	1%	1%

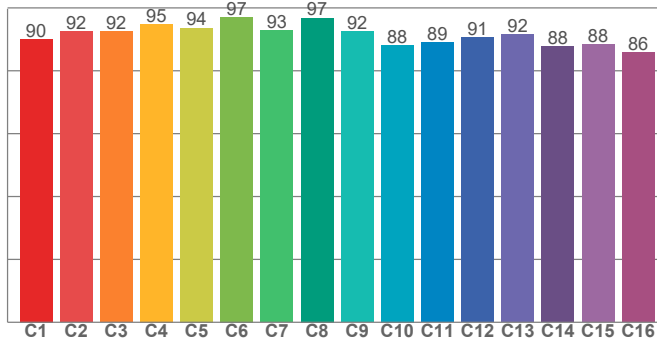
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
143.7°	185.5°	191.9°	62.5%	40.3%

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

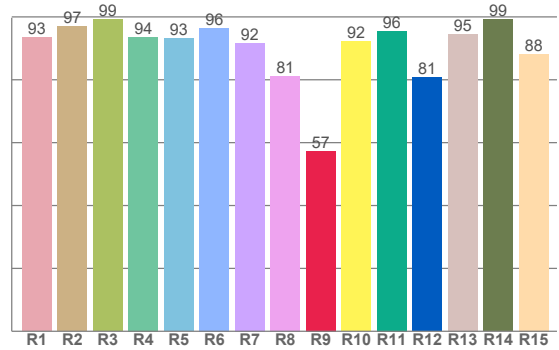
3000K



TM-30: 91.6



CRI: 93.2 (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
93.4	96.9	99.2	93.7	93.2	96.5	91.8	81.2	57.4	92.2	95.5	80.7	94.6	99.2	88.2

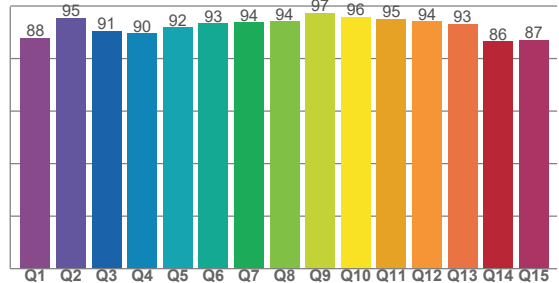
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.1	92.5	92.5	94.9	93.7	97.1	92.8	96.8	92.4	88.2	89.0	90.5	91.5	87.7	88.3	85.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.8	95.4	90.6	89.5	91.9	93.3	93.7	94.2	97.4	95.7	95.1	94.1	93.1	86.5	87.1

CQS: 91.6



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
3034 K	93.2	57.4	91.6	97.8	91.6	0.436	0.406	0.249	0.348	0.0009

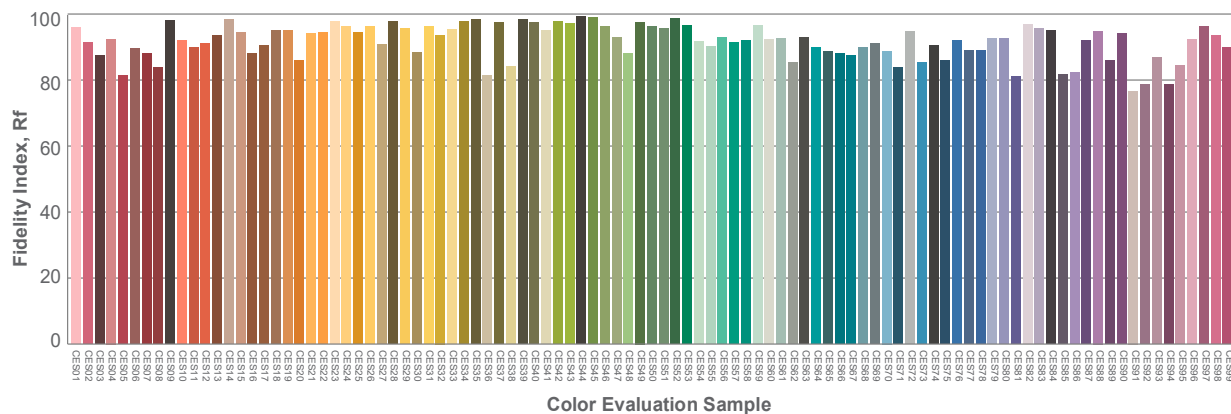
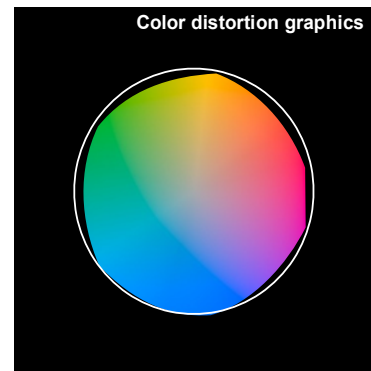
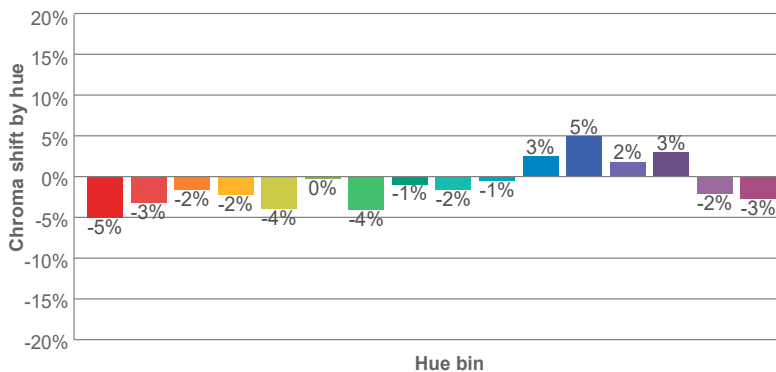
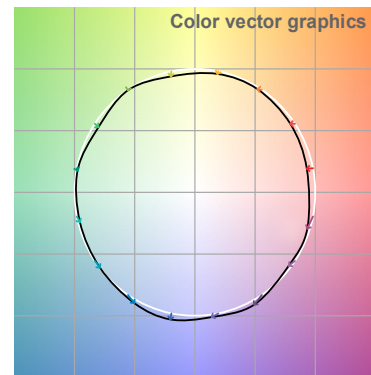
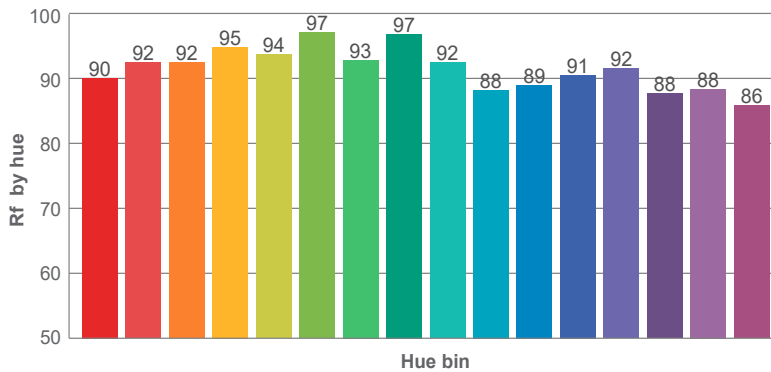
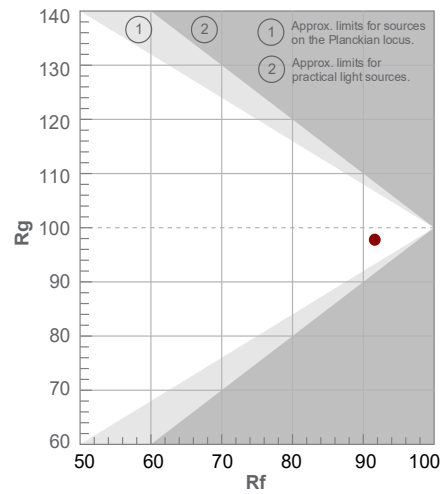
Note: specifications are representative of the diode type and not a particular tape light article.

3000K

Rf 91.6
Fidelity index Rf

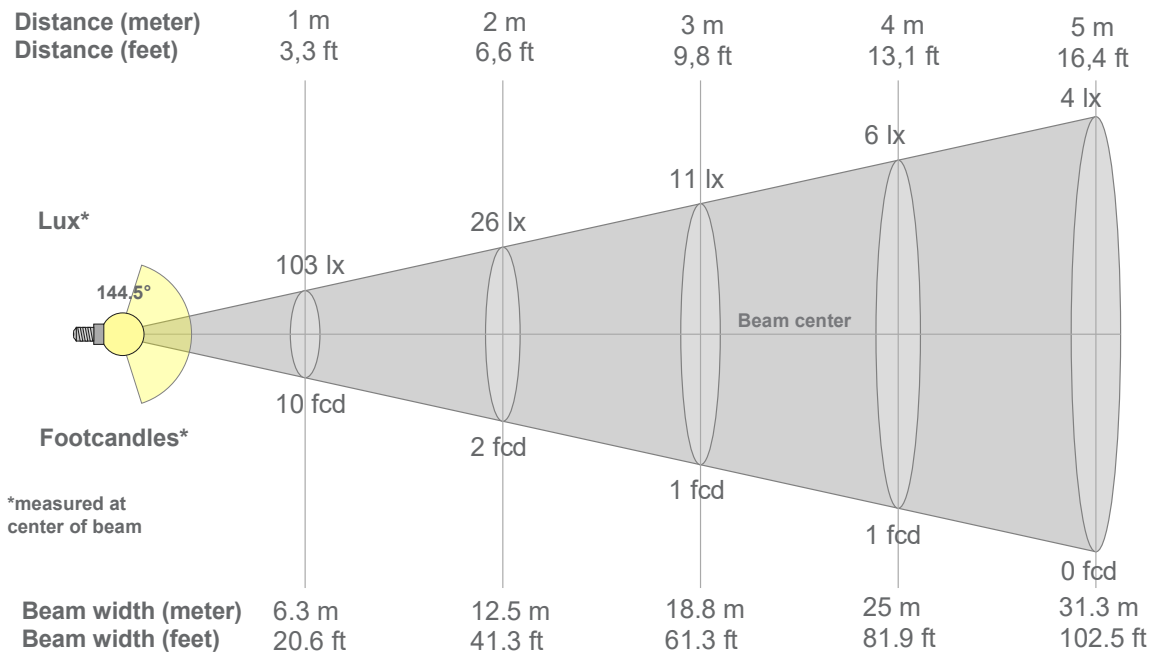
Rg 97.8
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	92	-3%	2%
3	92	-2%	3%
4	95	-2%	0%
5	94	-4%	1%
6	97	0%	0%
7	93	-4%	1%
8	97	-1%	2%
9	92	-2%	5%
10	88	-1%	7%
11	89	3%	8%
12	91	5%	0%
13	92	2%	-6%
14	88	3%	-10%
15	88	-2%	-6%
16	86	-3%	-11%



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
103lx	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	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°
103	102	100	97	92	86	79	72	65	57	42	6	1	1	1	1	1	1	1	1
100%	100%	98%	94%	90%	84%	77%	70%	63%	55%	41%	6%	1%	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°
103	101	97	91	83	72	59	44	28	12	2	1	1	1	1	1	1	1	1	1
100%	98%	95%	89%	80%	70%	57%	43%	27%	12%	2%	1%	1%	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°
103	102	100	97	92	86	79	72	65	57	42	6	1	1	1	1	1	1	1	1
100%	100%	98%	94%	90%	84%	77%	70%	63%	55%	41%	6%	1%	1%	1%	1%	1%	1%	1%	1%

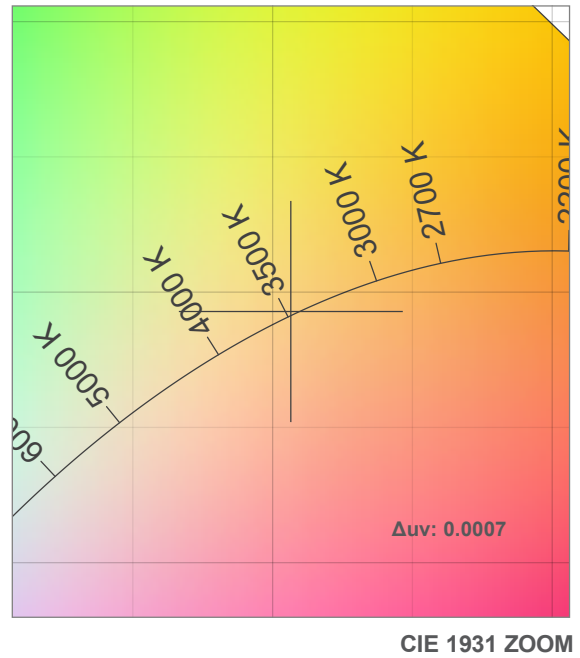
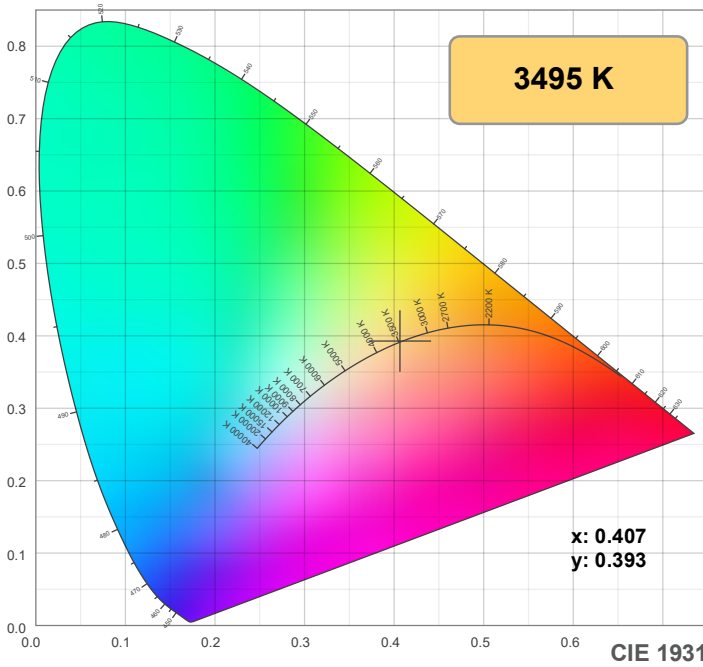
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
103	101	97	91	83	72	59	44	28	12	2	1	1	1	1	1	1	1	1	1
100%	98%	95%	89%	80%	70%	57%	43%	27%	12%	2%	1%	1%	1%	1%	1%	1%	1%	1%	1%

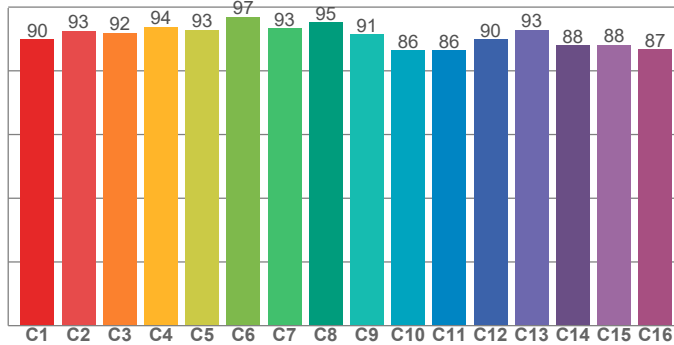
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
144.5°	186.1°	192.6°	62.3%	40.1%

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

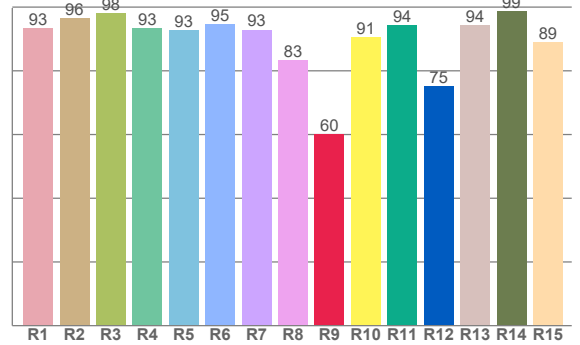
3500K



TM-30: 90.9



CRI: 93.1 (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
93.3	96.4	98.1	93.3	92.6	94.7	92.9	83.2	60.0	90.6	94.3	75.1	94.4	98.6	89.1

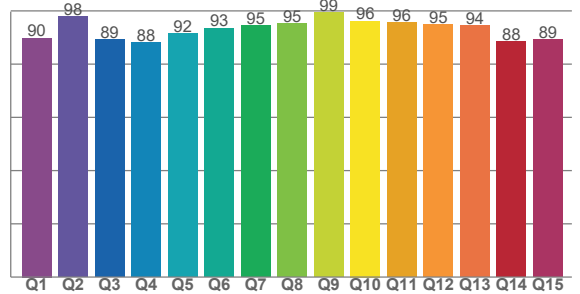
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.9	92.6	91.9	93.8	92.9	97.0	93.4	95.2	91.5	86.5	86.4	89.9	92.8	88.0	88.1	86.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89.8	97.7	89.3	88.1	91.6	93.5	94.5	95.3	99.3	96.2	95.5	95.0	94.4	88.4	89.1

CQS: 92.4



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
3495 K	93.1	60.0	90.9	97.8	92.4	0.407	0.393	0.236	0.342	0.0007

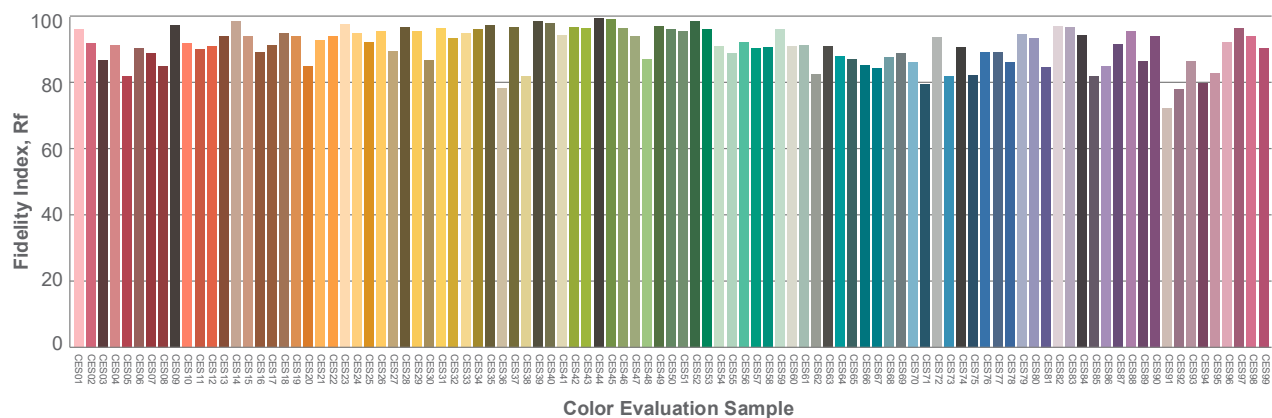
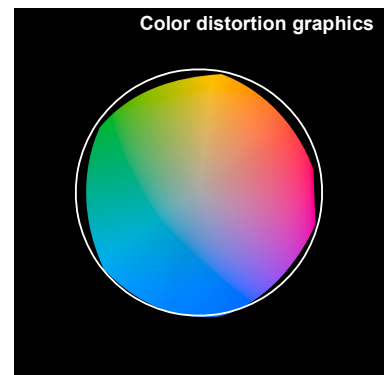
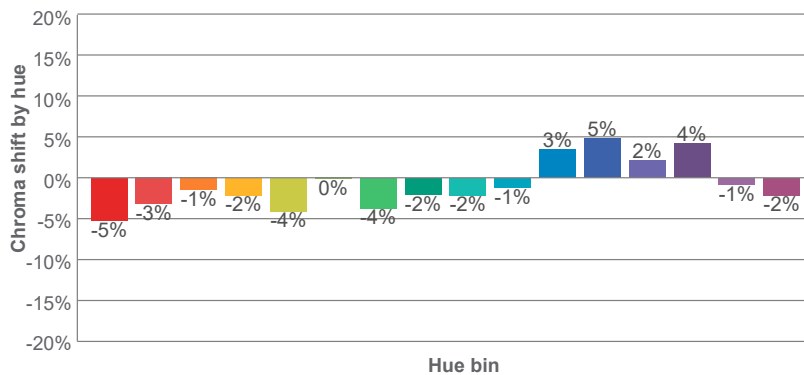
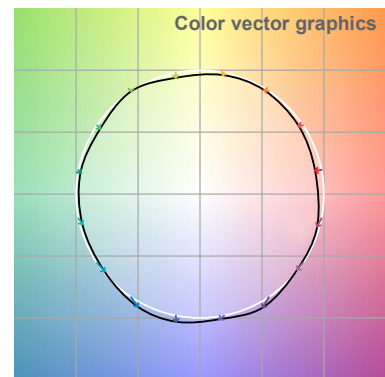
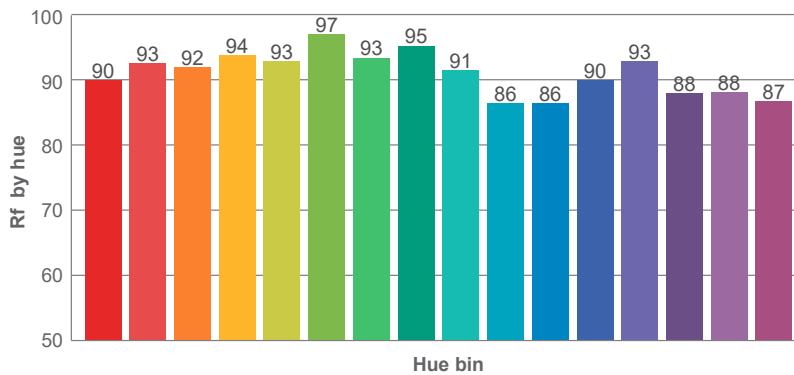
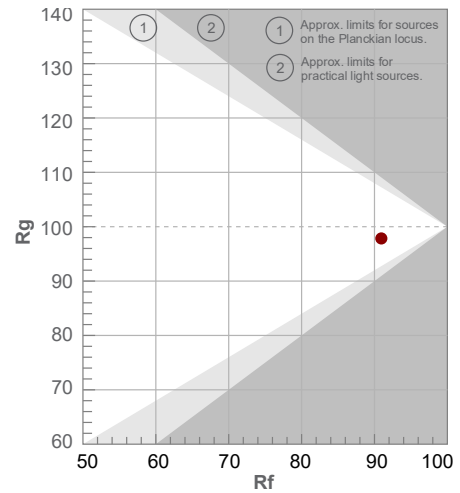
Note: specifications are representative of the diode type and not a particular tape light article.

3500K

Rf 90.9
Fidelity index Rf

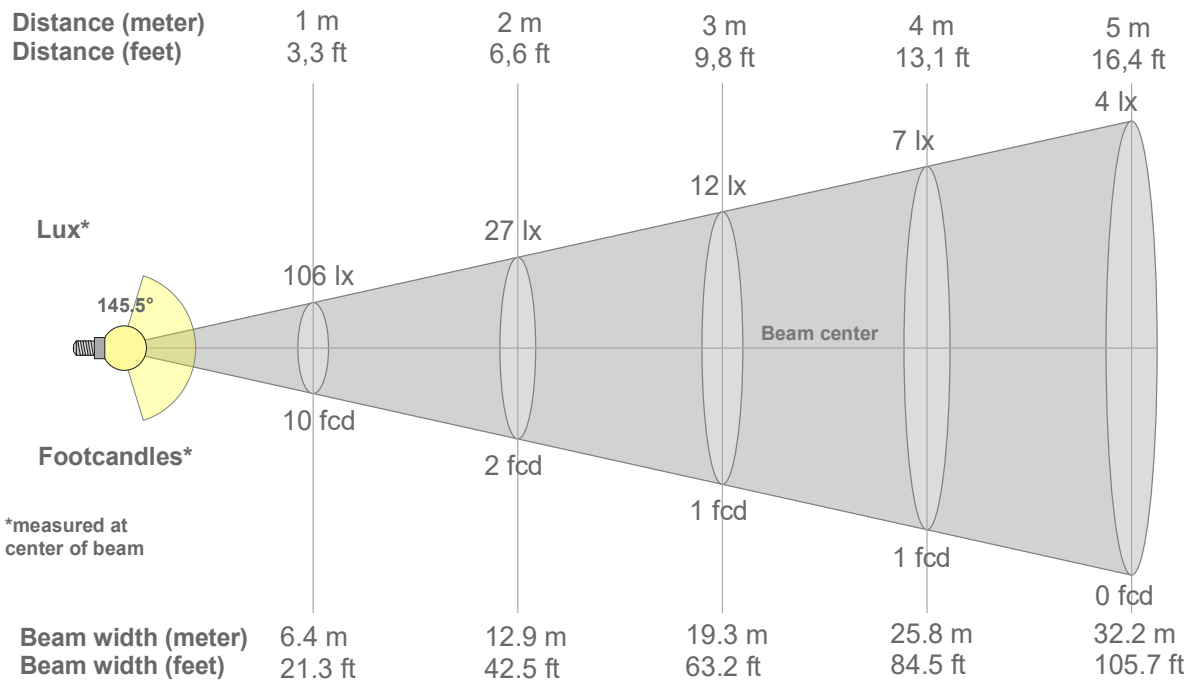
Rg 97.8
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	90	-5%	0%
2	93	-3%	2%
3	92	-1%	4%
4	94	-2%	1%
5	93	-4%	1%
6	97	0%	0%
7	93	-4%	1%
8	95	-2%	2%
9	91	-2%	5%
10	86	-1%	9%
11	86	3%	9%
12	90	5%	1%
13	93	2%	-4%
14	88	4%	-9%
15	88	-1%	-7%
16	87	-2%	-7%



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
106lx	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°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
106	106	104	101	96	89	83	75	68	59	43	8	1	1	1	1	1	1	1	1
100%	100%	98%	95%	90%	84%	78%	71%	64%	56%	41%	7%	0%	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°
106	104	100	94	86	75	61	46	29	12	1	1	1	1	1	1	1	1	1	1
100%	98%	94%	89%	80%	70%	58%	43%	27%	12%	1%	1%	1%	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°
106	106	104	101	96	89	83	75	68	59	43	8	1	1	1	1	1	1	1	1
100%	100%	98%	95%	90%	84%	78%	71%	64%	56%	41%	7%	0%	1%	1%	1%	1%	1%	1%	1%

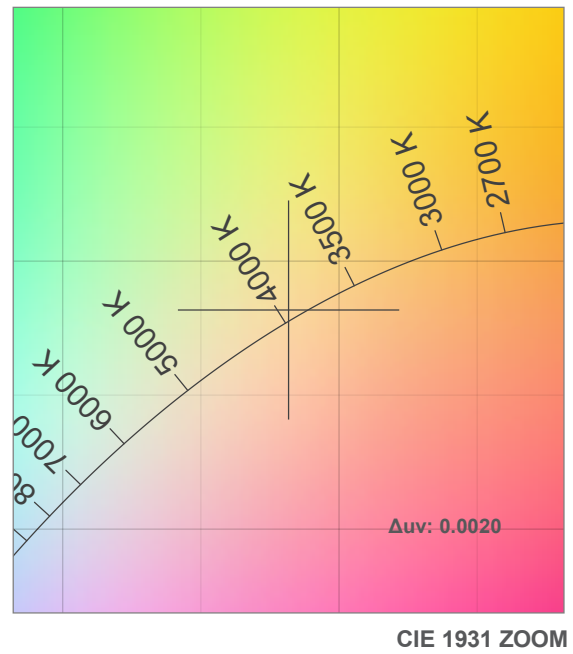
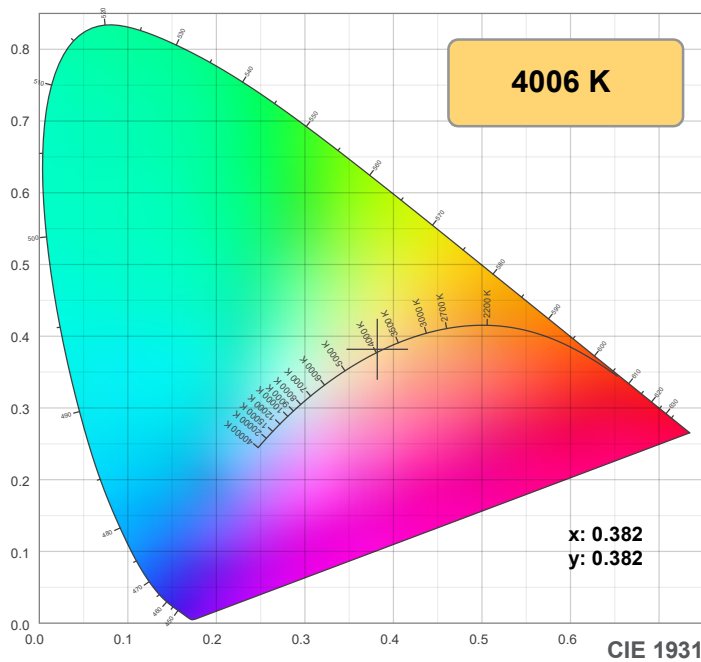
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
106	104	100	94	86	75	61	46	29	12	1	1	1	1	1	1	1	1	1	1
100%	98%	94%	89%	80%	70%	58%	43%	27%	12%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%

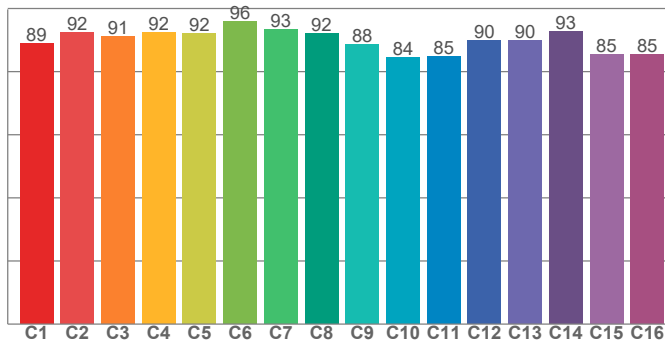
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
145.5°	186.5°	193.6°	62.1%	40.0%

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

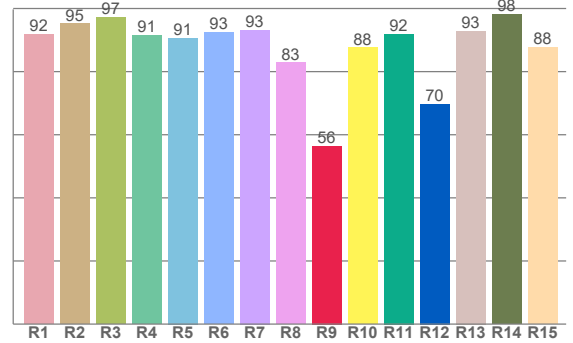
4000K



TM-30: 89.8



CRI: 91.8 (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
91.7	95.1	97.1	91.4	90.6	92.5	93.2	82.8	56.4	87.5	91.9	69.7	92.9	98.2	87.6

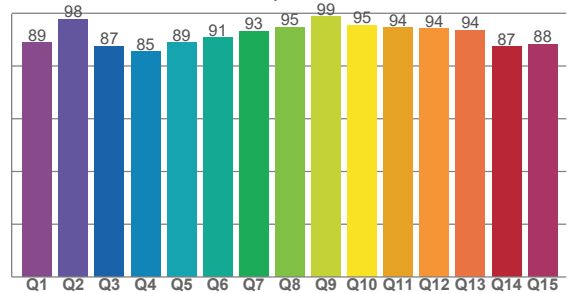
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88.9	92.4	91.1	92.4	92.1	96.0	93.4	92.0	88.5	84.4	84.7	90.0	90.0	92.8	85.4	85.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88.8	97.8	87.5	85.3	88.9	90.9	93.2	94.8	98.9	95.5	94.4	94.1	93.7	87.2	88.2

CQS: 91.0



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
4006 K	91.8	56.4	89.8	97.0	91.0	0.382	0.382	0.224	0.336	0.0020

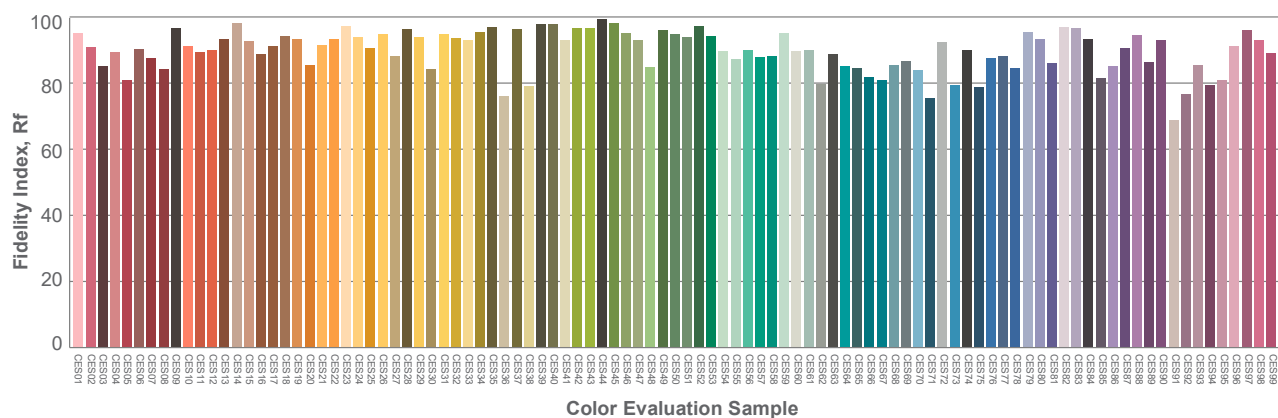
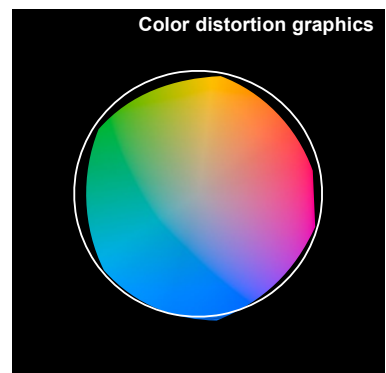
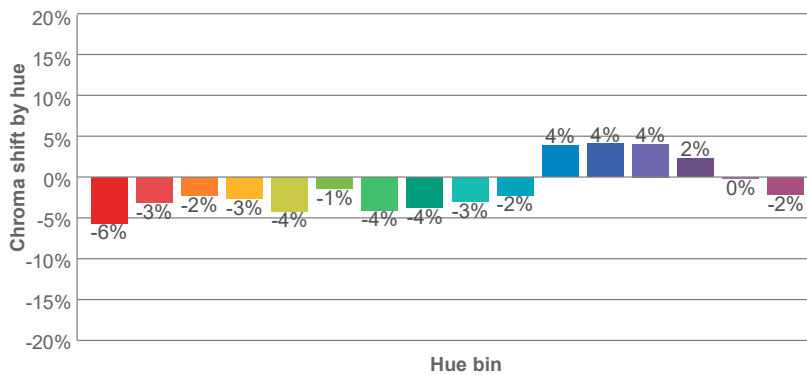
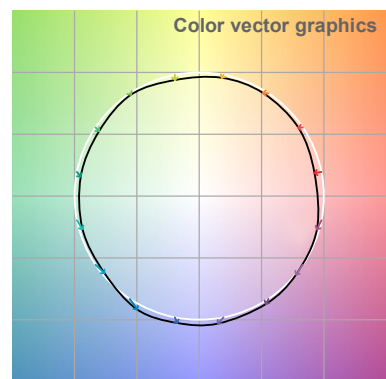
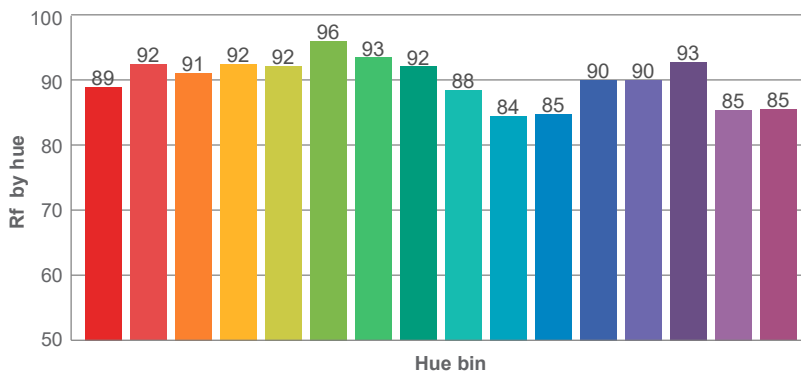
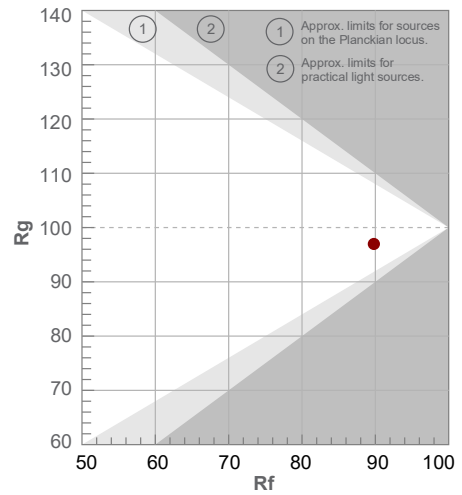
Note: specifications are representative of the diode type and not a particular tape light article.

4000K

Rf 89.8
Fidelity index Rf

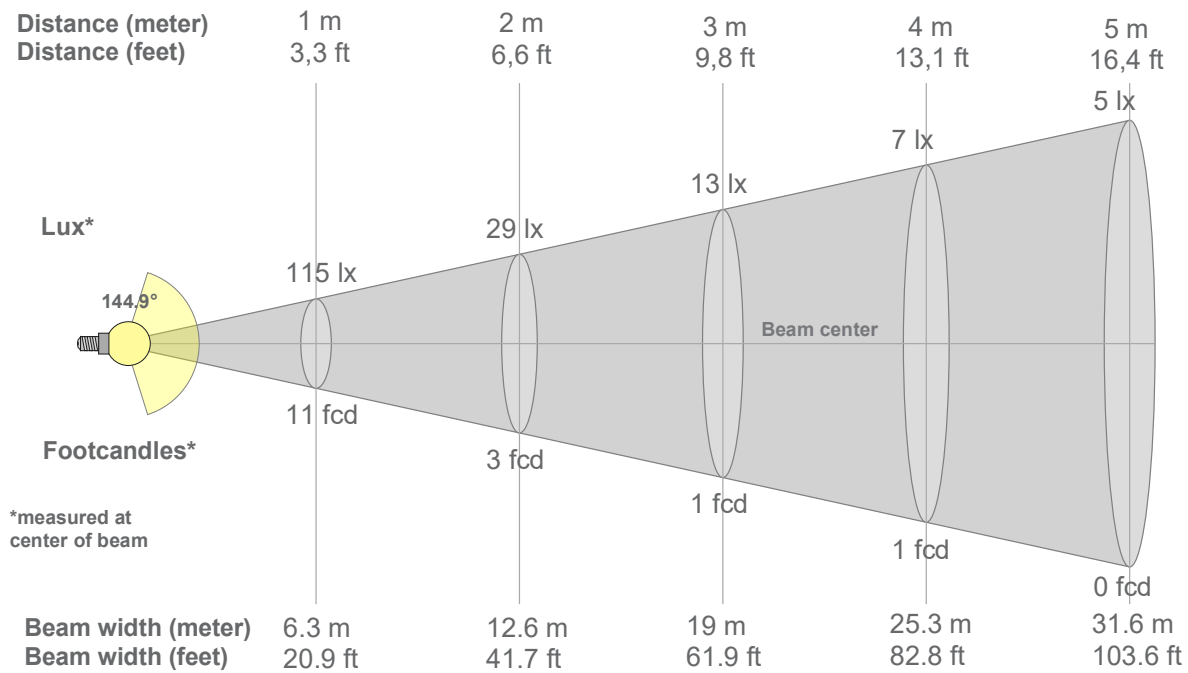
Rg 97.0
Gamut index Rg

Hue Bin	R _r	Shifts (%)	
		Chroma	Hue
1	89	-6%	0%
2	92	-3%	2%
3	91	-2%	4%
4	92	-3%	1%
5	92	-4%	1%
6	96	-1%	0%
7	93	-4%	1%
8	92	-4%	3%
9	88	-3%	8%
10	84	-2%	10%
11	85	4%	10%
12	90	4%	3%
13	90	4%	-5%
14	93	2%	-4%
15	85	0%	-10%
16	85	-2%	-8%



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

4000K



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
115lx	29lx	13lx	7lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
10.7fcd	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	0.1fcd	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°
115	115	113	109	103	96	89	81	73	63	46	9	1	1	1	1	1	1	1	1
100%	100%	98%	94%	90%	84%	77%	70%	63%	54%	40%	7%	1%	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°
115	114	110	103	94	82	67	51	32	14	2	1	1	1	1	1	1	1	1	1
100%	99%	95%	89%	81%	71%	58%	44%	28%	12%	2%	1%	1%	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°
115	115	113	109	103	96	89	81	73	63	46	9	1	1	1	1	1	1	1	1
100%	100%	98%	94%	90%	84%	77%	70%	63%	54%	40%	7%	1%	1%	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°
115	114	110	103	94	82	67	51	32	14	2	1	1	1	1	1	1	1	1	1
100%	99%	95%	89%	81%	71%	58%	44%	28%	12%	2%	1%	1%	1%	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
144.9°	186.7°	194.2°	62.3%	40.1%