

PrimaLine® 3 SE (Side Emitting) LED Tape Light



Actual size shown

Cut point every 1 in. 0.32 in. wide



PrimaLine 3 SE 12V LED Tape Light is a very low profile tape that provides side-emitting light that shines parallel to a surface. It's designed to fit into narrow spaces to provide reveal lighting for curved coves, domes, counters, bars, and headers.

- Light shines parallel to a surface
- Perfect for curved surfaces and reveal lighting
- Curved coves, domes, counters, bars, and headers
- Black PCB reduces glare and stray light
- 90 CRI (Color Rendering Index)

TECHNICAL INFORMATION

Stocked CCTs (Color Temperature)*	2700K, 3000K, 4200K*	Diode Type	3014 SMD
Power Consumption Per Foot	2.88 Watts/240mA	Mounting	3M™ Self-Adhesive Tape (Non-porous)
Input Voltage	12V DC	Operating Temperature	-13° F to 140° F
Diodes per foot	36	Ambient Temperature	-40° F to 186° F
Diode Spacing	0.325 inches	Spool Lengths**	16.4 ft.
Tape Height	0.07 inches	Environment	Indoor, Dry
Beam Angle	120°	Certifications	UL Listed, UL 2108, CE, RoHS
12V Field Cuttable (UL 2108)	Every 1 inches	Warranty	6 Year Limited
Max Run Length	16.4 ft.		
Dimmable	Yes		

* 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., 20 AWG tinned lead wires at both ends of the tape light.

PRODUCT INFORMATION

16.4 ft. spool Item Number	Voltage	Color Temperature	CRI	R9 Value	R13 Value	TM30	CQS	Lumens / foot
AL-01-51-1201	12V DC	● 2700K	91.5	40.4	96.8	89.2	88.9	129
AL-01-51-1202	12V DC	● 3000K	93.7	61.8	97.2	89.6	91.5	137
AL-01-51-1203	12V DC	○ 4200K	95.6	82.5	96	88.6	93	186

VOLTAGE DROP GUIDANCE CHART

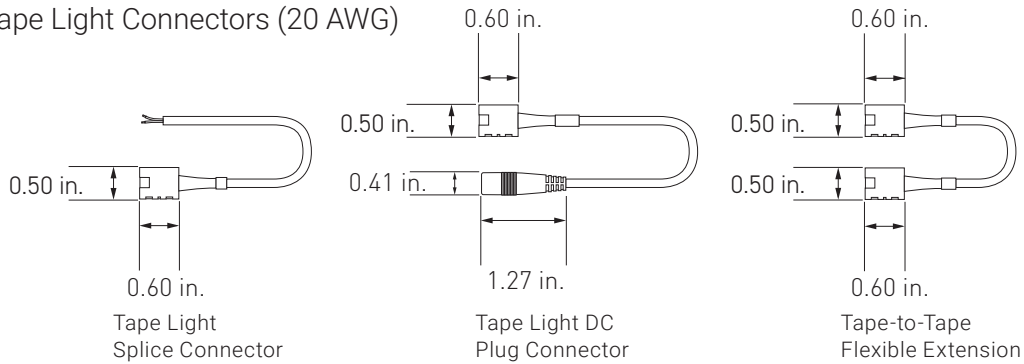
Standard Non-XT 12V Voltage Drop and Wire Length Distance Chart (3% Drop or 11V)

Wire Gauge	Copper Wire Resistance (Ω/kFT)	10W (0.83A)	20W (1.67A)	30W (2.50A)	40W (3.33A)	50W (4.17A)	60W (5A)
22 AWG	16.14	14 ft.	7 ft.	5 ft.	4 ft.	3 ft.	3 ft.
20 AWG	10.15	22 ft.	11 ft.	8 ft.	6 ft.	5 ft.	4 ft.
18 AWG	6.39	34 ft.	17 ft.	12 ft.	9 ft.	7 ft.	6 ft.
16 AWG	4.02	54 ft.	27 ft.	18 ft.	14 ft.	11 ft.	9 ft.
14 AWG	2.53	86 ft.	43 ft.	29 ft.	22 ft.	18 ft.	15 ft.
12 AWG	1.59	137 ft.	69 ft.	46 ft.	35 ft.	28 ft.	23 ft.
10 AWG	0.99	217 ft.	109 ft.	73 ft.	55 ft.	44 ft.	37 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)

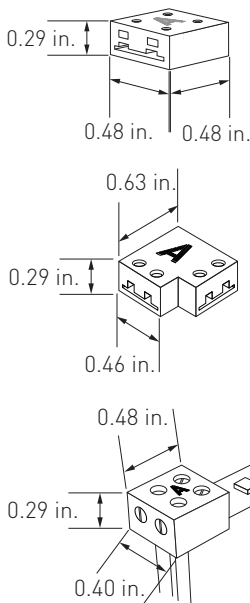
In-Wall-Rated Tape Light Connectors (20 AWG)



Item Number	Description	Wire Length
AL-01-51-9902	Tape Light Splice Connector	6 in.
AL-01-51-9907	Tape Light Splice Connector	36 in.
AL-01-51-9910	Tape Light Splice Connector	8 ft.

Item Number	Description	Wire Length
AL-01-51-9912	Tape-to-Tape Flexible Extension	6 in.
AL-01-51-9917	Tape-to-Tape Flexible Extension	36 in.
AL-01-51-9922	Tape Light DC Plug Connector	6 in.
AL-01-51-9927	Tape Light DC Plug Connector	36 in.

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-01-51-9900
- AL-01-51-9900-10 (10-pack)
- AL-01-51-9900-100 (100-pack)

AmpChamp Corner

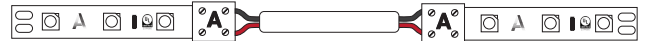
- AL-01-51-9900-L

AmpChamp Up/Down

- AL-01-51-9900-UD
- AL-01-51-9900-UD-10 (10-pack)

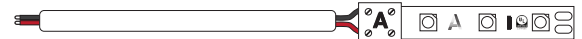
AmpChamp Jumper and Power Feed Kits

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



- AL-01-08-9900-3IN-JK (3 in. jumper wire)
- AL-01-08-9900-6IN-JK (6 in. jumper wire)
- AL-01-08-9900-36IN-JK (36 in. jumper wire)

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



- AL-01-08-9900-36IN-PK (36 in. power feed wire)
- AL-01-08-9900-8FT-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

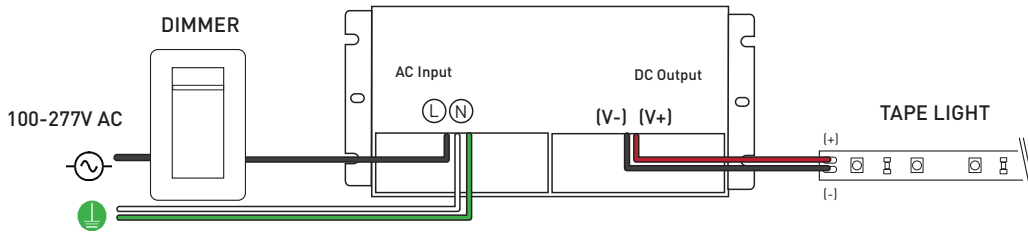
Provides extra security for tape light, especially at the ends of a run
AL-01-99-9900-10 (10-pack)

ALLOY LED[®] Specifications

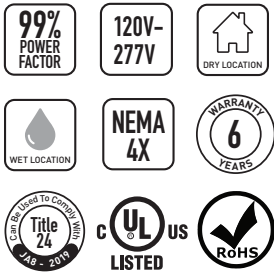
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



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)

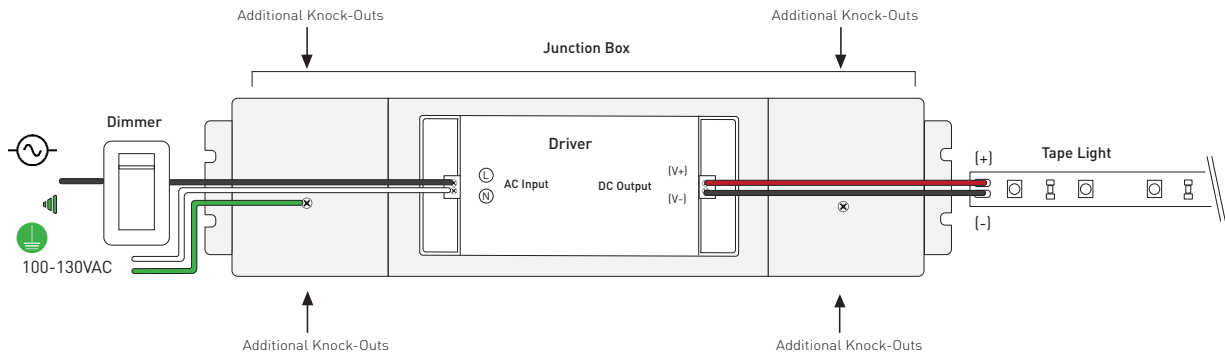
Alloy LED Primavolt[®] No Minimum Load Dimmable Power Supplies with ETL Listed Junction Box
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with Incandescent, On/Off, ELV and MLV dimmers.



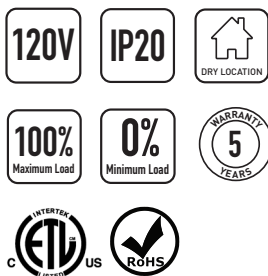
Dry Location Model
White model for 60W and lower



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

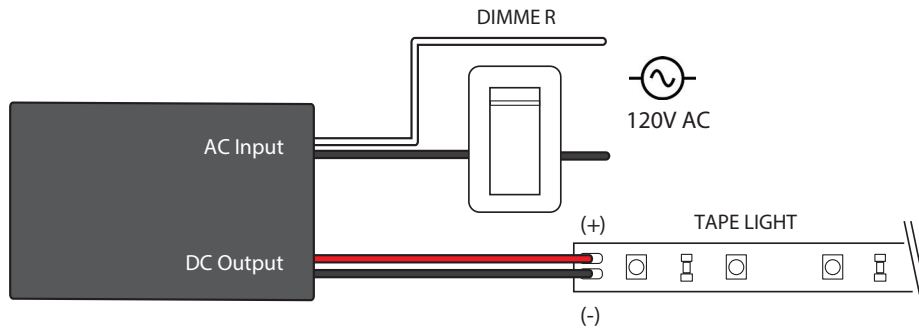
Note: Alloy LED strongly recommends using Listed Class 2 power supplies for all installations. Always install in accordance with local and national electrical code regulations. Inspectors prefer power supply to be used with junction box. For dimmer compatibility, refer to drivers specification sheet.

ALLOY LED[®] Specifications

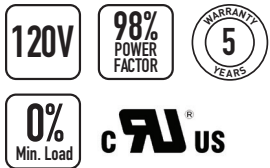
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

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	Mini- mum 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

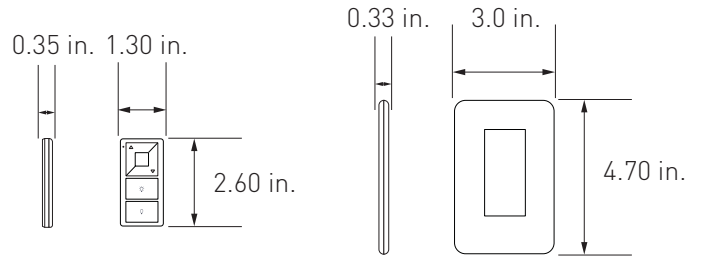
Item Number	Desc.	Voltage
AL-98-07-9901	EcoSystem Control Module	N/A
AL-98-07-9901-8	EcoSystem Control Module - 8-pack	N/A
AL-98-07-9950	CL Dimmer	120V AC
AL-98-07-9950-FPLATE	CL Dimmer faceplate	N/A

DIMMING ACCESSORIES (SOLD SEPARATELY)

Dimmers and Switches

SlimDim Wireless Dimmers

Using long-range RF technology, these LED dimmers connect wirelessly to a power supply, 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 Maximum) (sold separately)

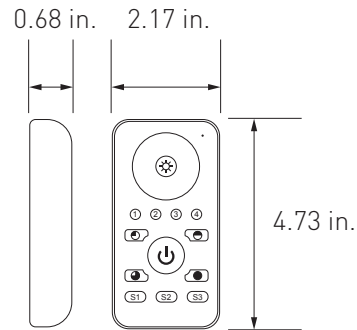


SlimDim Wireless Dimmer

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.

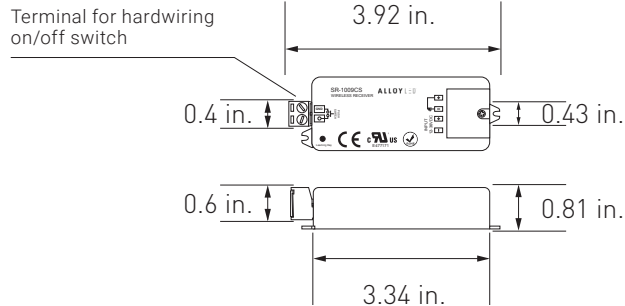


AL-60-03-0001	Remote Control Dimmer Switch
AL-70-01-0002	Single Channel Receiver (sold separately)
AL-60-03-0004-V2	Wireless Receiver (RGB and RGBW) (sold separately)



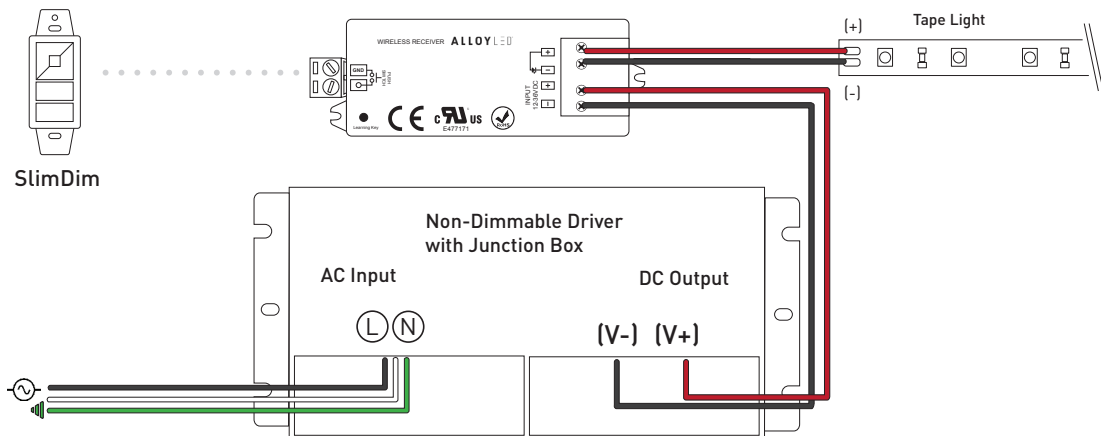
Single Channel Wireless Receiver

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

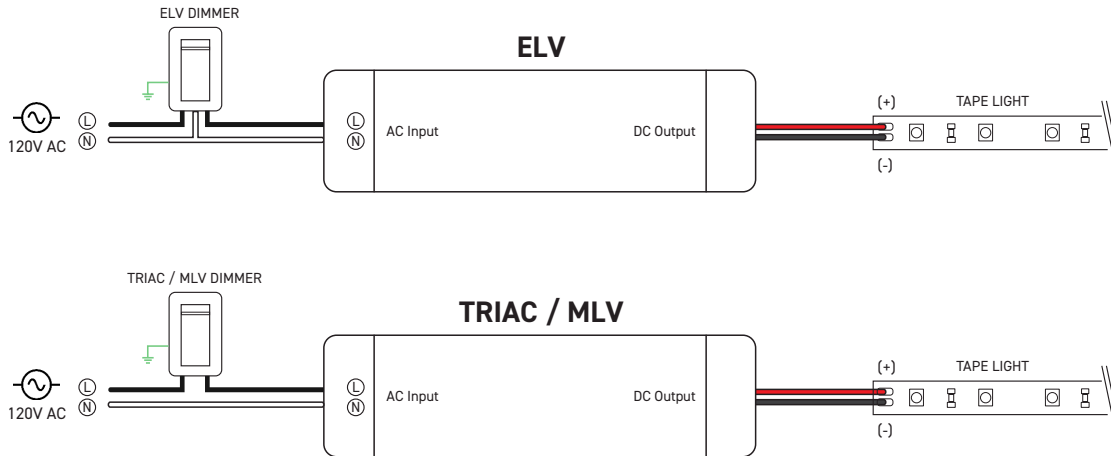
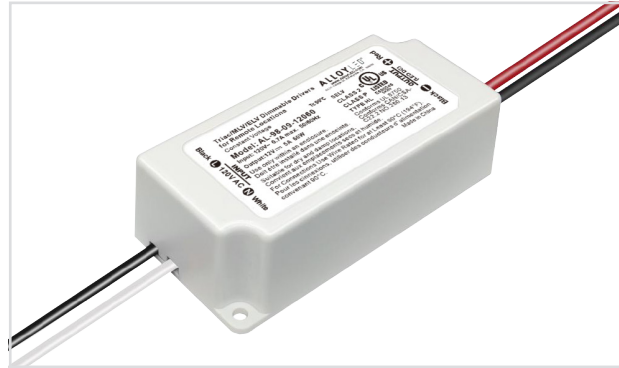


ALLOY LED[®] Specifications

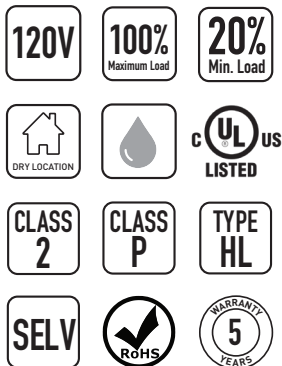
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

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.

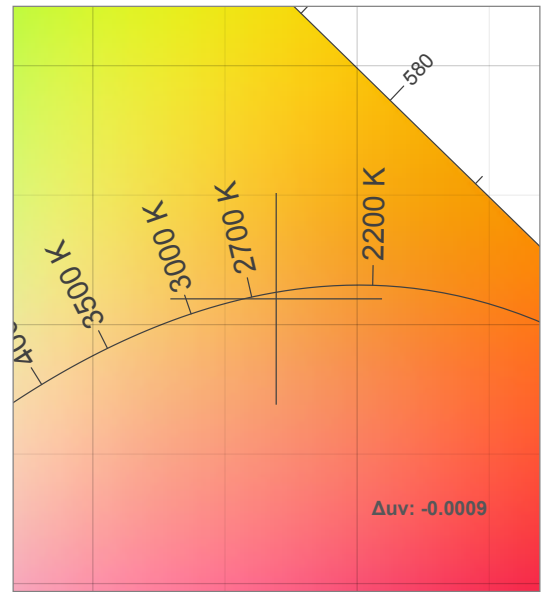
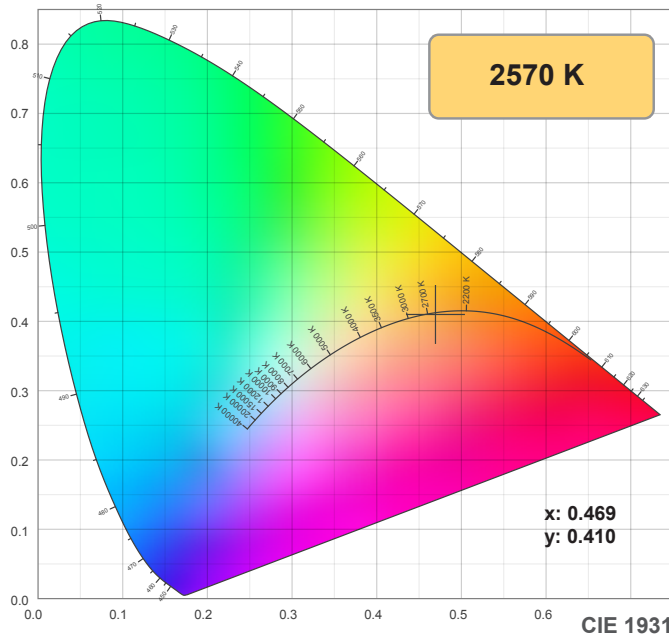


Item Number	Output Voltage	Wattage	Dimensions (L x W x H)	Class 2
AL-98-09-12060	12V DC	60W	3.31 x 1.57 x 0.98	Yes
AL-98-09-24096	24V DC	96W	3.31 x 1.57 x 0.98	Yes

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.

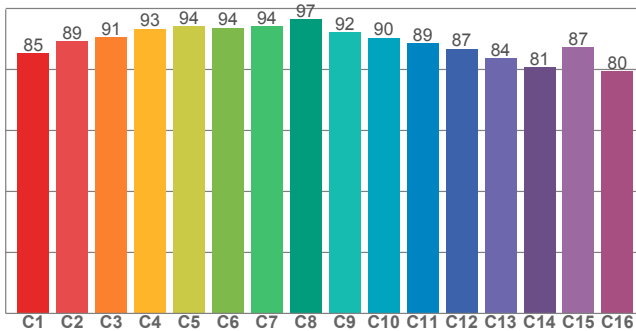
Note: specifications are representative of the diode type and not a particular tape light article.

2700K

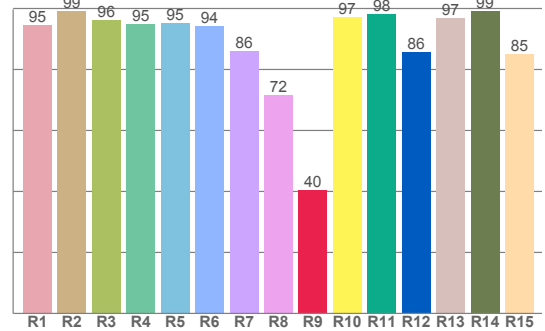


CIE 1931 ZOOM

TM30: 89.2



CRI: 91.5 (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
94.5	99.1	96.2	95.0	95.3	94.2	85.9	71.7	40.4	97.2	98.2	85.8	96.8	99.1	85.0

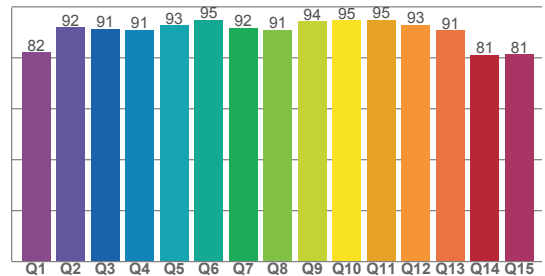
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
85.3	89.2	90.6	93.3	94.2	93.7	94.1	96.6	92.2	90.4	88.5	86.8	83.7	80.8	87.3	79.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
82.1	92.0	91.3	90.8	92.7	94.8	91.8	90.9	94.2	94.7	94.8	92.9	90.8	81.1	81.3

CQS: 88.9



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
2570 K	91.5	40.4	89.2	98.2	88.9	0.469	0.410	0.269	0.352	-0.0009

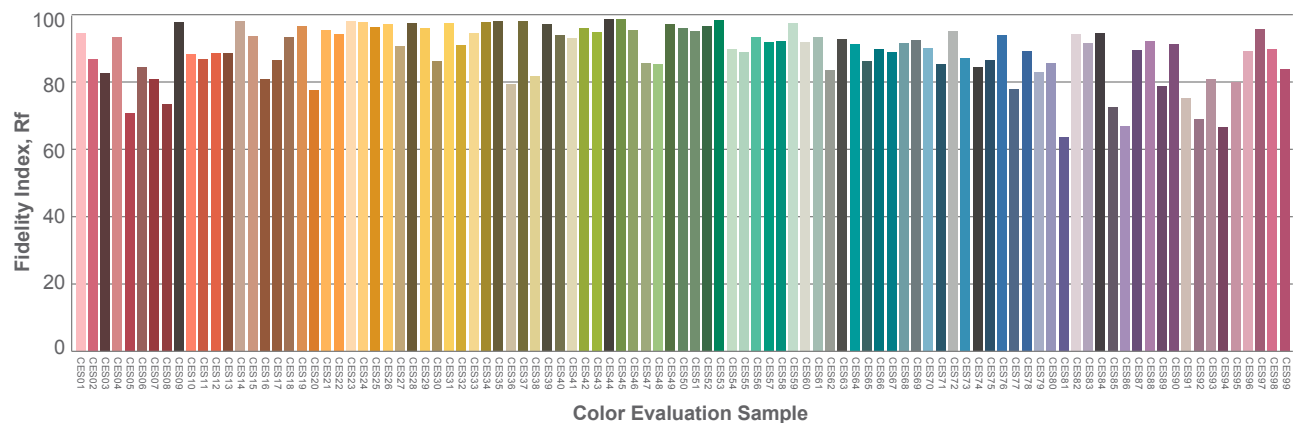
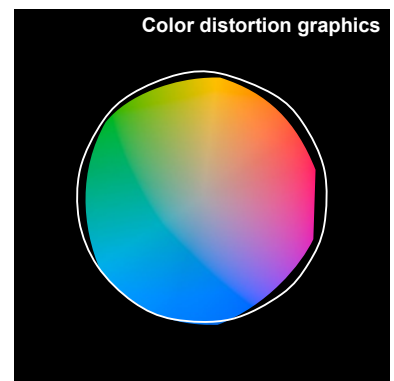
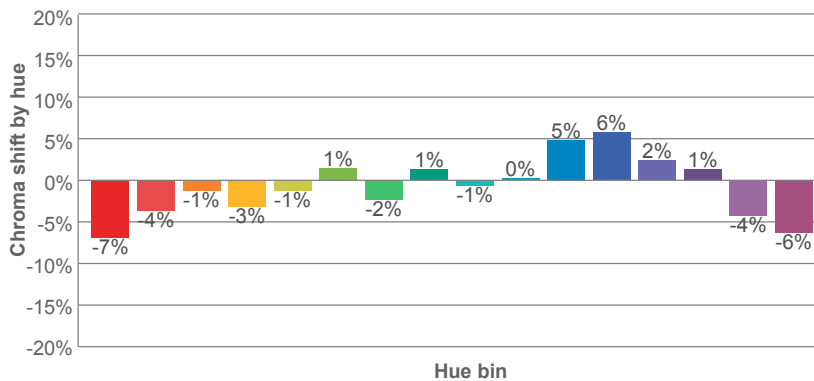
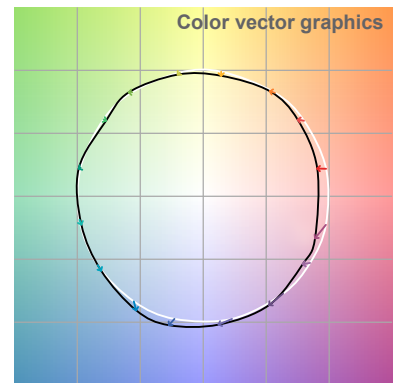
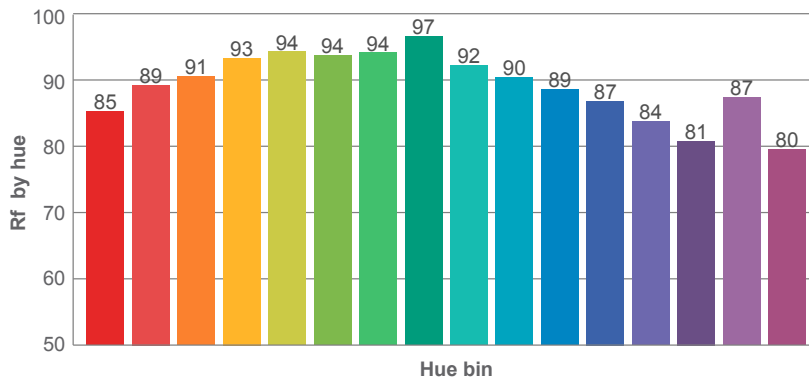
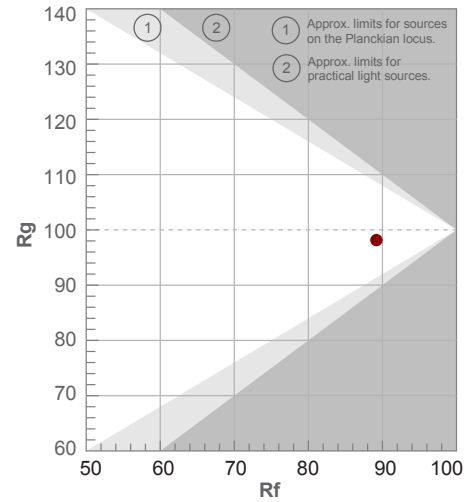
Note: specifications are representative of the diode type and not a particular tape light article.

2700K

Rf 89.2
Fidelity index Rf

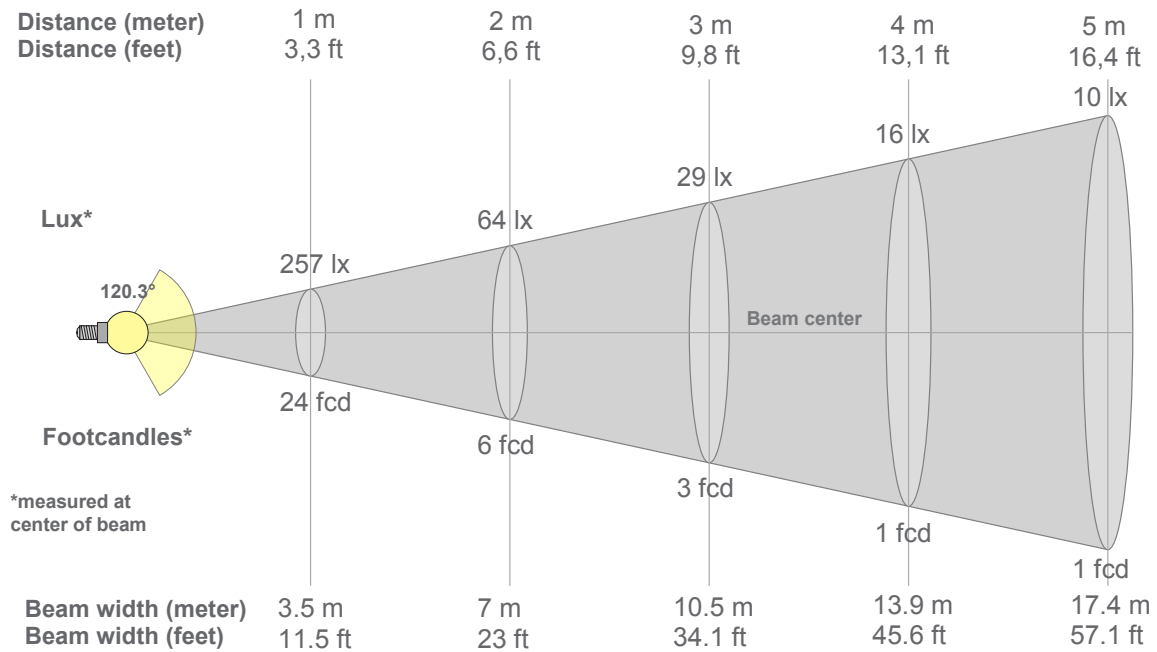
Rg 98.2
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	85	-7%	2%
2	89	-4%	4%
3	91	-1%	4%
4	93	-3%	-1%
5	94	-1%	2%
6	94	1%	2%
7	94	-2%	0%
8	97	1%	1%
9	92	-1%	4%
10	90	0%	5%
11	89	5%	6%
12	87	6%	-3%
13	84	2%	-11%
14	81	1%	-14%
15	87	-4%	-4%
16	80	-6%	-12%



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
257lx	64lx	29lx	16lx	10lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
23.9fcd	6fcd	2.7fcd	1.5fcd	1fcd	0.7fcd	0.5fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
257	256	253	248	241	233	223	211	198	183	166	148	129	109	87	65	43	23	10	2
100%	100%	98%	97%	94%	91%	87%	82%	77%	71%	65%	58%	50%	42%	34%	25%	17%	9%	4%	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°
257	256	253	248	241	233	223	211	198	183	166	148	129	109	87	65	43	23	10	2
100%	100%	98%	97%	94%	91%	87%	82%	77%	71%	65%	58%	50%	42%	34%	25%	17%	9%	4%	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°
257	256	254	249	242	234	224	212	199	183	167	149	129	108	86	64	41	21	8	1
100%	100%	99%	97%	94%	91%	87%	83%	77%	71%	65%	58%	50%	42%	34%	25%	16%	8%	3%	0%

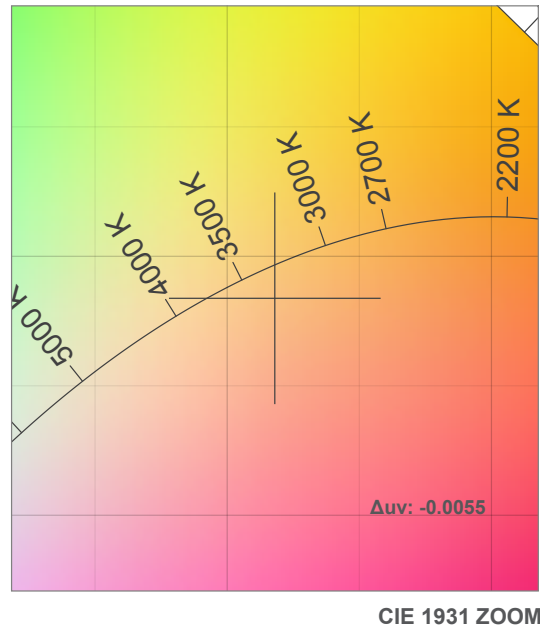
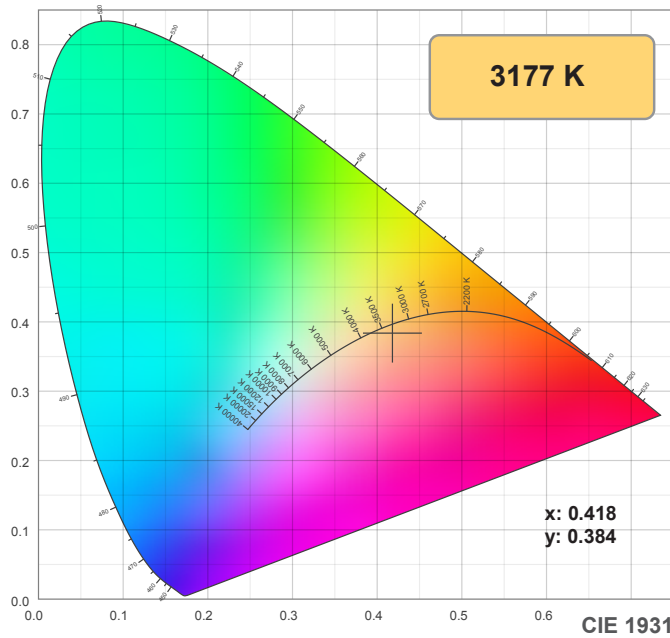
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
257	256	254	249	242	234	224	212	199	183	167	149	129	108	86	64	41	21	8	1
100%	100%	99%	97%	94%	91%	87%	83%	77%	71%	65%	58%	50%	42%	34%	25%	16%	8%	3%	0%

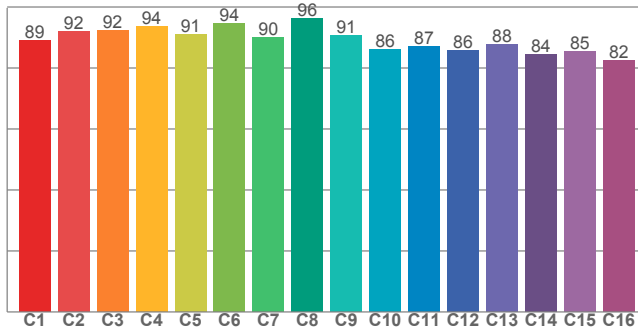
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
120.3°	168°	182.4°	74.4%	49.5%

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

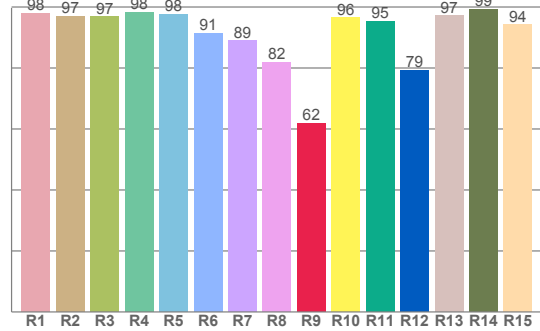
3000K



TM30: 89.6



CRI: 93.7 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.9	96.9	96.8	98.3	97.7	91.3	89.0	81.9	61.8	96.5	95.3	79.2	97.2	99.2	94.2

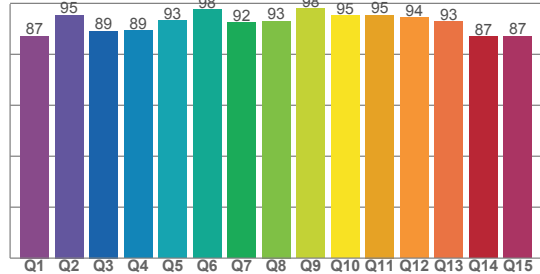
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.1	92.2	92.3	93.8	91.1	94.5	90.1	96.3	90.6	86.0	87.0	85.7	87.7	84.4	85.3	82.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.1	95.4	89.1	89.4	93.2	97.7	92.3	93.1	98.0	95.3	95.5	94.4	92.9	87.1	87.1

CQS: 91.5



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
3177 K	93.7	61.8	89.6	100.1	91.5	0.418	0.384	0.247	0.340	-0.0055

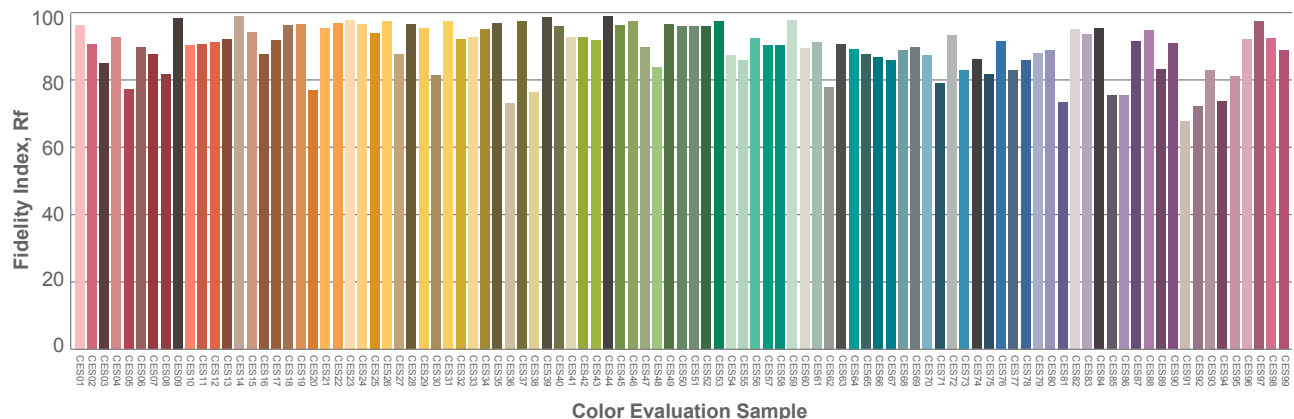
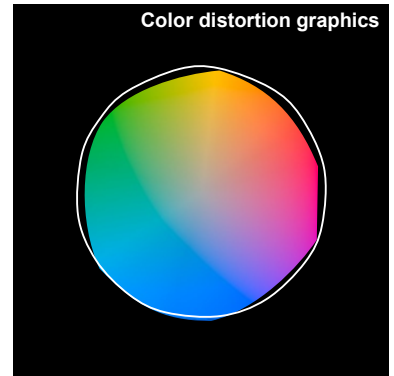
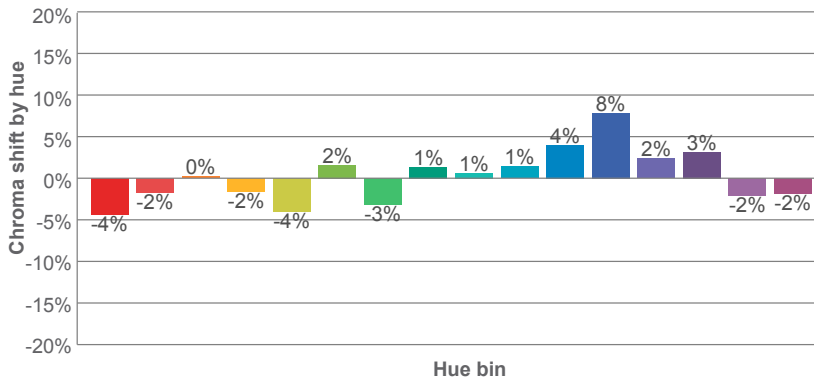
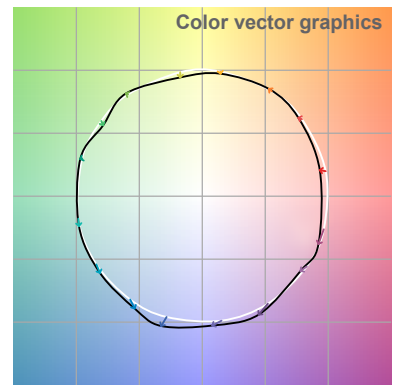
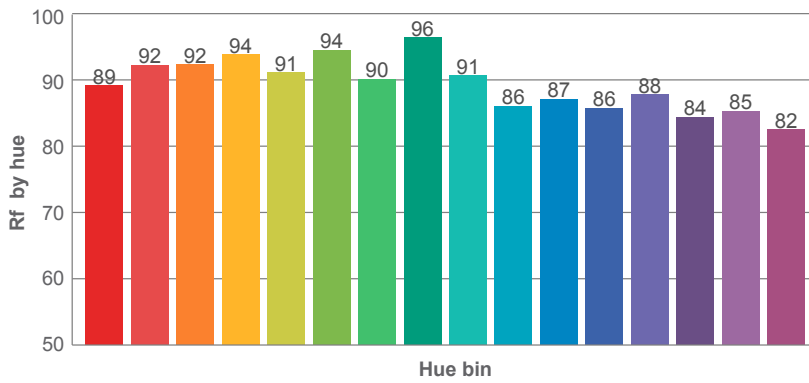
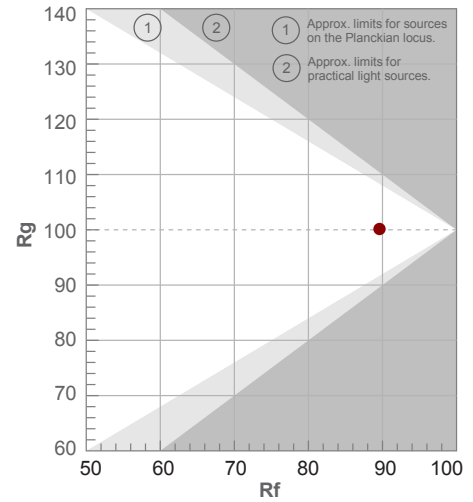
Note: specifications are representative of the diode type and not a particular tape light article.

3000K

Rf 89.6
Fidelity index Rf

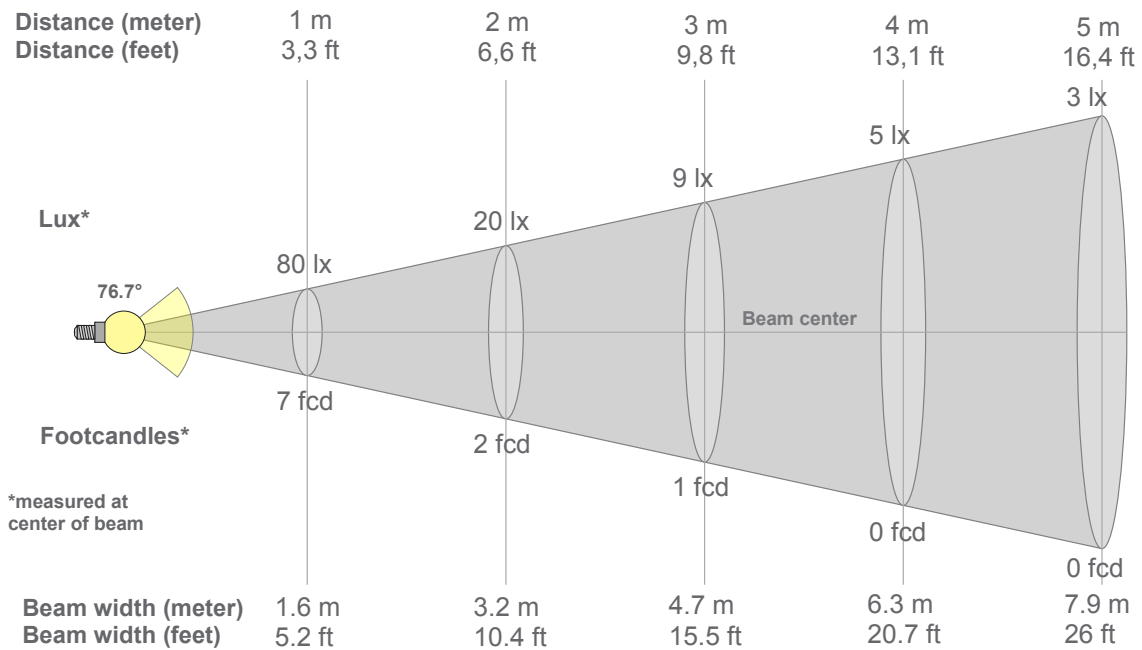
Rg 100.1
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	-4%	2%
2	92	-2%	2%
3	92	0%	3%
4	94	-2%	-1%
5	91	-4%	1%
6	94	2%	1%
7	90	-3%	2%
8	96	1%	1%
9	91	1%	6%
10	86	1%	7%
11	87	4%	7%
12	86	8%	-3%
13	88	2%	-8%
14	84	3%	-11%
15	85	-2%	-6%
16	82	-2%	-12%



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
80lx	20lx	9lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
7.4fcd	1.9fcd	0.8fcd	0.5fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	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°
80.1	80.8	80.5	79.2	76.7	73.2	69.0	64.0	58.6	52.8	46.4	39.8	33.0	26.2	19.4	13.1	7.8	4.1	2.2	1.5
100%	101%	101%	99%	96%	91%	86%	80%	73%	66%	58%	50%	41%	33%	24%	16%	10%	5%	3%	2%

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°
80.1	80.8	80.5	79.2	76.7	73.2	69.0	64.0	58.6	52.8	46.4	39.8	33.0	26.2	19.4	13.1	7.8	4.1	2.2	1.5
100%	101%	101%	99%	96%	91%	86%	80%	73%	66%	58%	50%	41%	33%	24%	16%	10%	5%	3%	2%

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°
80.1	78.3	73.3	63.5	48.4	29.6	12.6	3.6	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
100%	98%	92%	79%	60%	37%	16%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

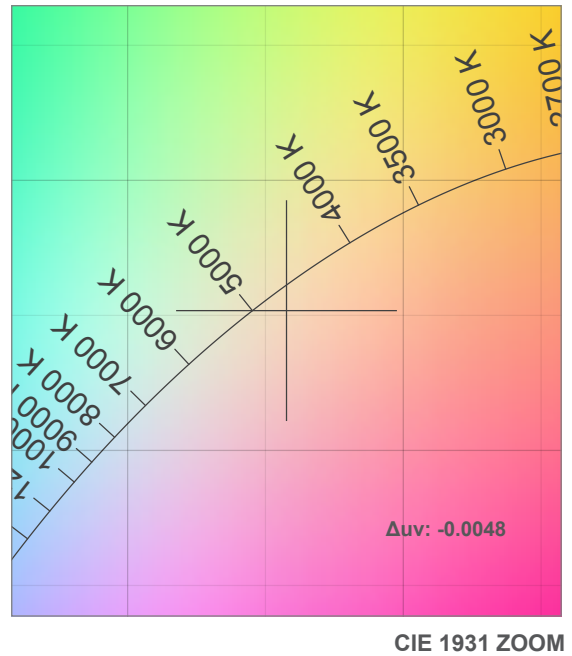
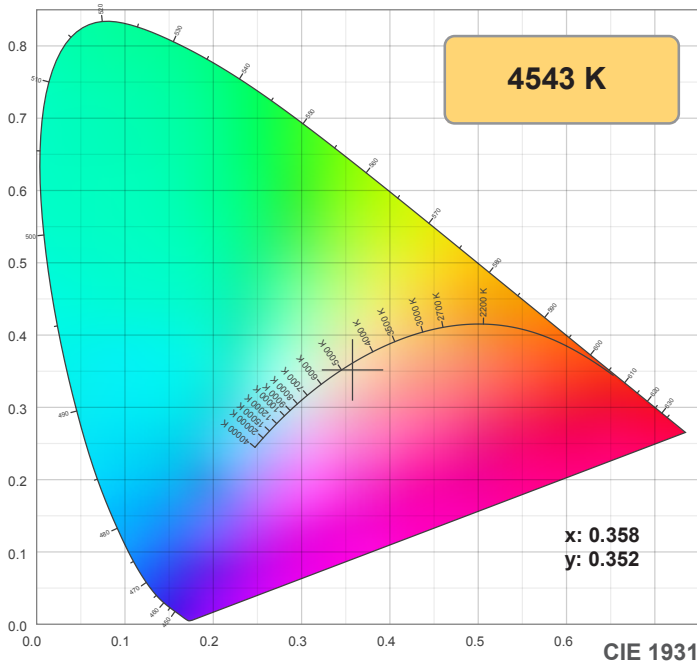
Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
80.1	78.3	73.3	63.5	48.4	29.6	12.6	3.6	0.7	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
100%	98%	92%	79%	60%	37%	16%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

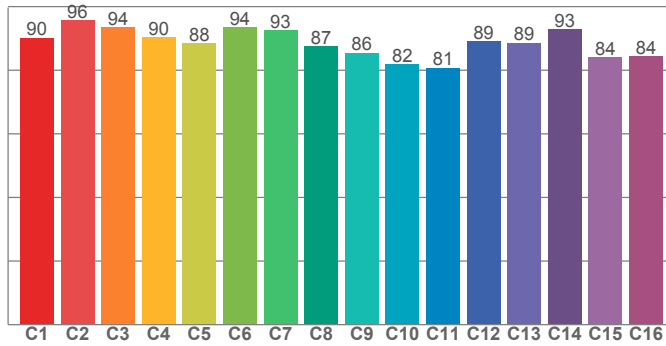
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
76.7°	111.4°	126.9°	80.4%	60.0%

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

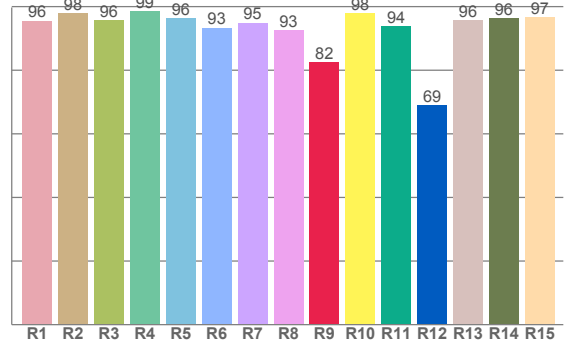
4200K



TM30: 88.6



CRI: 95.6 (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
95.6	97.8	95.7	98.6	96.3	93.4	94.9	92.5	82.5	97.9	93.9	69.0	95.8	96.4	96.6

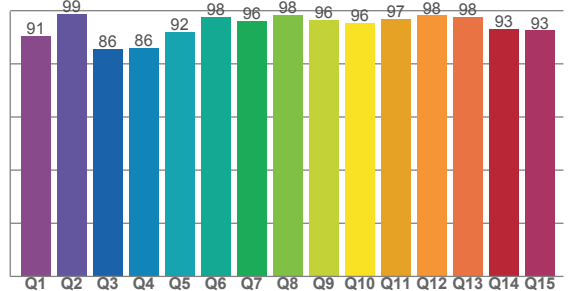
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.1	95.7	93.5	90.4	88.4	93.6	92.6	87.5	85.5	81.8	80.8	89.0	88.7	92.9	84.0	84.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90.5	98.7	85.6	85.9	92.1	97.6	96.2	98.3	96.5	95.5	97.0	98.2	97.8	93.1	92.5

CQS: 93.0



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
4543 K	95.6	82.5	88.6	99.8	93.0	0.358	0.352	0.220	0.324	-0.0048

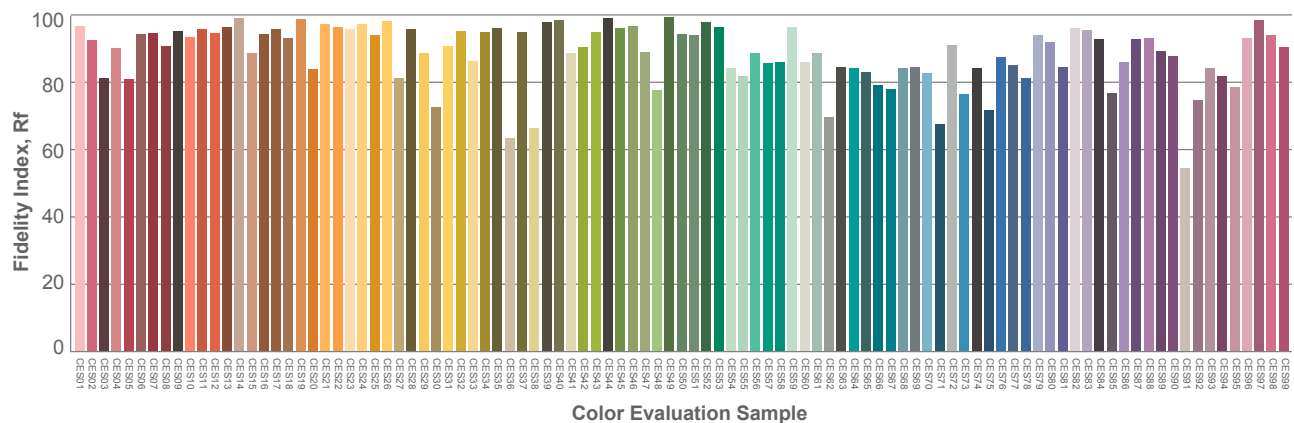
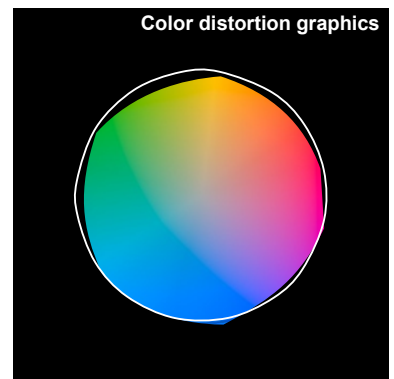
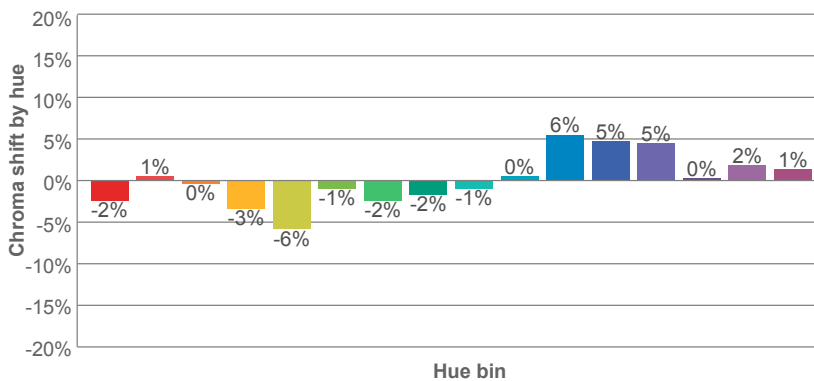
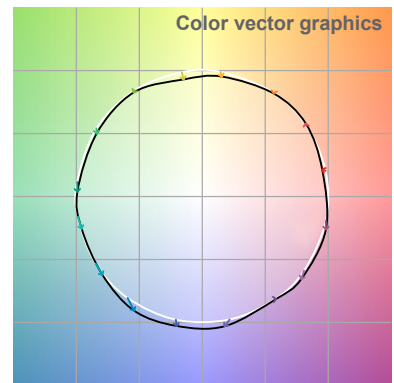
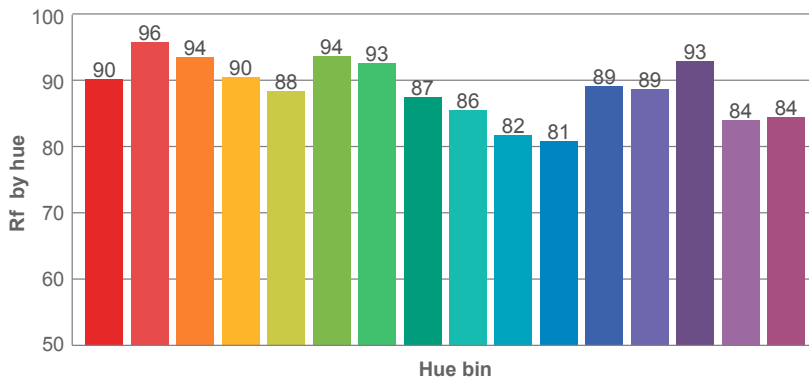
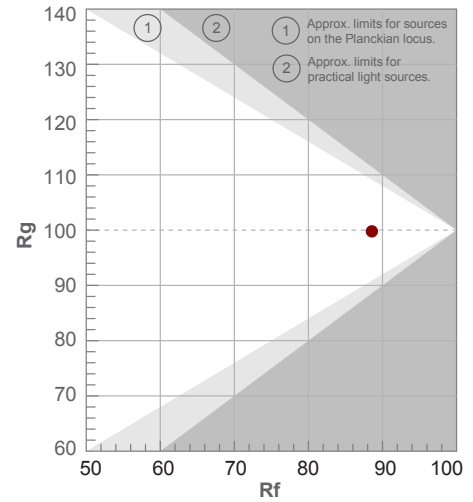
Note: specifications are representative of the diode type and not a particular tape light article.

4200K

Rf 88.6
Fidelity index Rf

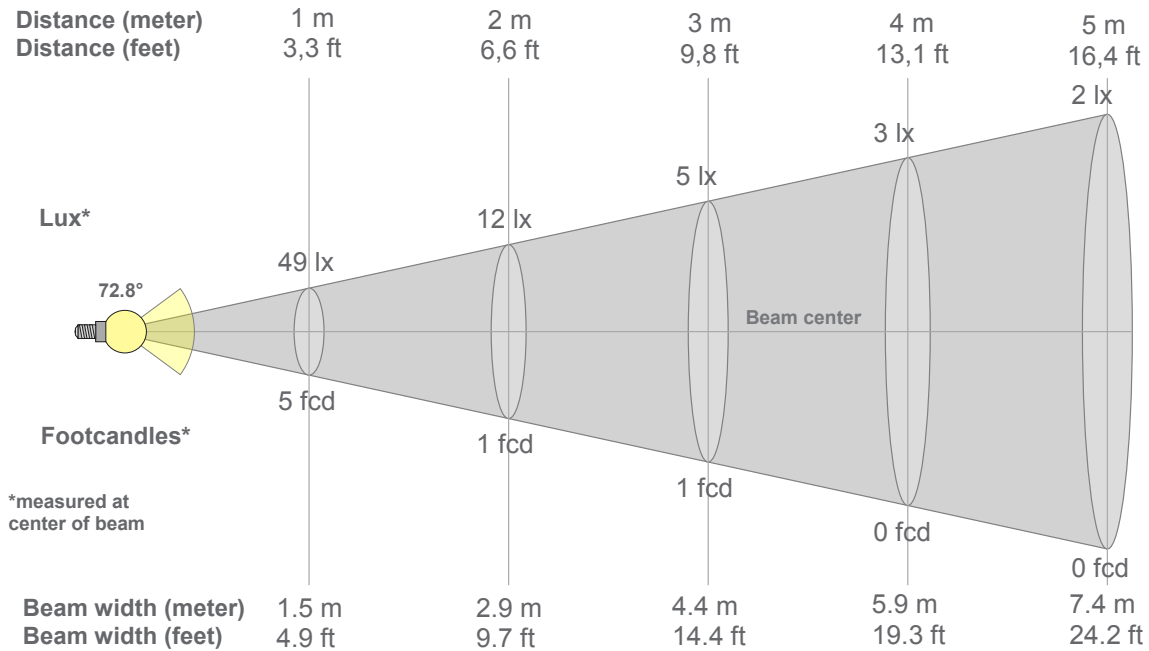
Rg 99.8
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-2%	1%
2	96	1%	1%
3	94	0%	0%
4	90	-3%	-2%
5	88	-6%	0%
6	94	-1%	2%
7	93	-2%	3%
8	87	-2%	8%
9	86	-1%	10%
10	82	0%	10%
11	81	6%	10%
12	89	5%	1%
13	89	5%	-5%
14	93	0%	1%
15	84	2%	-7%
16	84	1%	-7%



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
49lx	12lx	5lx	3lx	2lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
4.6fcd	1.1fcd	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°
49.5	67.9	76.6	80.6	83.0	84.3	83.9	81.8	78.4	73.9	68.8	63.3	57.4	51.0	44.3	37.3	29.9	22.4	15.3	9.1
100%	137%	155%	163%	168%	170%	169%	165%	158%	149%	139%	128%	116%	103%	90%	75%	60%	45%	31%	18%

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°
49.5	67.9	76.6	80.6	83.0	84.3	83.9	81.8	78.4	73.9	68.8	63.3	57.4	51.0	44.3	37.3	29.9	22.4	15.3	9.1
100%	137%	155%	163%	168%	170%	169%	165%	158%	149%	139%	128%	116%	103%	90%	75%	60%	45%	31%	18%

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°
49.5	20.5	4.4	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4
100%	41%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
49.5	20.5	4.4	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4
100%	41%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
72.8°	104.1°	117°	63.5%	40.3%