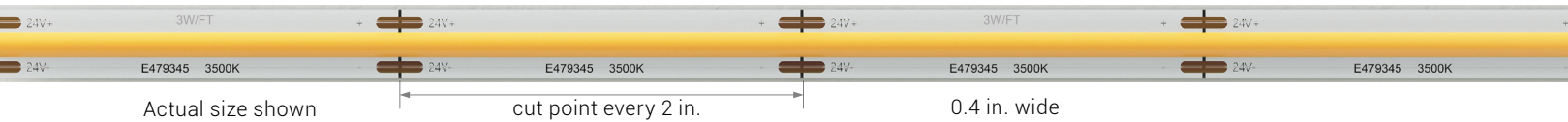


ALLOY LED® Specifications

PrimaLine® 3 COB HD Wet Location



PrimaLine 3 COB HD Wet Location offers enhanced, seamless illumination with ~50% more LEDs per foot than our standard COB tape, and the silicone waterproof sleeve provides protection against water. At 3 watts per foot, this dot-free, uniform lighting solution is perfect for a wide range of outdoor residential and commercial applications.

- Industry-leading 93+ CRI (Color Rendering Index)
- High R9 and R13 values for superb rendering of warm tones
- 6-year warranty

TECHNICAL INFORMATION

Stocked Color Temperature	2700K, 3000K, 3500K, 4000K	Mounting	3M™ Self-Adhesive Tape (Non-porous)
Power Consumption per Foot	3 Watts/120mA	Operating Temperature	-4° F to 140° F
Input Voltage	24V DC	Ambient Temperature	-4° F to 158° F
Diodes per foot	146	Environment	Outdoor, Wet (IP67)
Tape Height	0.197 in.	Certifications	UL 2108 Listed, RoHS
Beam Angle	123°	Standards	Certified to the CA Energy Commission in accordance with the Title 24 JA8 2019 std.
Field Cuttable (UL 2108)	Every 2 in.	Warranty	6 Year Limited
Maximum Run Length	16.4 ft.		
Dimmable	Yes		
Diode Type	COB		

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-01-62-2461	24V DC	2700K	252.9	93	20 ft.
AL-01-62-2462	24V DC	3000K	245.1	93	20 ft.
AL-01-62-2468	24V DC	3500K	262.5	93	20 ft.
AL-01-62-2463	24V DC	4000K	287.3	91	20 ft.
AL-01-62-2481	24V DC	2700K	252.9	93	100 ft.
AL-01-62-2482	24V DC	3000K	245.1	93	100 ft.
AL-01-62-2488	24V DC	3500K	262.5	93	100 ft.
AL-01-62-2483	24V DC	4000K	287.3	91	100 ft.

VOLTAGE DROP GUIDANCE CHART

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

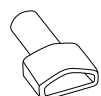
Wire Gauge	Copper Wire Resistance (Ω/kFT)	10W (0.42A)	20W (0.83A)	30W (1.25A)	40W (1.67A)	50W (2.08A)	60W (2.50A)	70W (2.92A)	80W (3.33A)	90W (3.75A)	96W (4A)
22 AWG	16.14	54 ft.	27 ft.	18 ft.	14 ft.	11 ft.	9 ft.	8 ft.	7 ft.	6 ft.	6 ft.
20 AWG	10.15	86 ft.	43 ft.	29 ft.	22 ft.	18 ft.	15 ft.	13 ft.	11 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 (INCLUDED)

Mounting and Installation Accessories

20 ft. spools include the following accessory quantities.



5 Splice Sleeves



10 Waterproof End Caps



10 Mounting Clips
20 Screws



100 ft. spools include the following accessory quantities.



25 Splice Sleeves



50 Waterproof End Caps



50 Mounting Clips
100 Screws

3M 9731 Silicone Rated Adhesive Tape

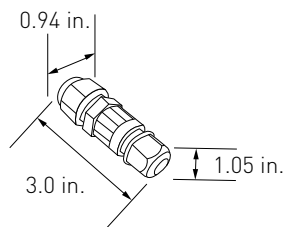
AL-01-01-9992 (50 ft.)

AL-01-01-9993 (100 ft.)

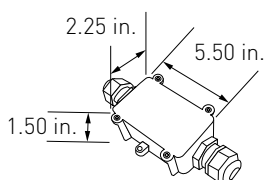
ACCESSORIES (SOLD SEPARATELY)

Wet Location Junction Boxes

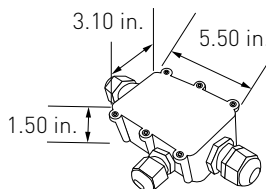
Provide a waterproof seal for wire connections, and are useful for connections between LED fixtures and low voltage power.



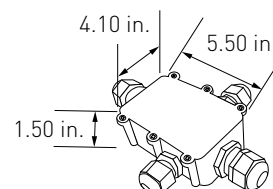
AL-98-05-99001



AL-98-05-99002-2



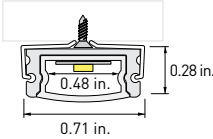
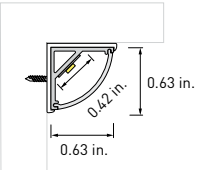
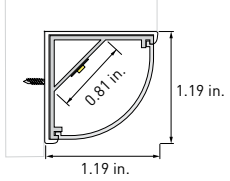
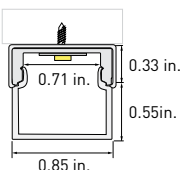
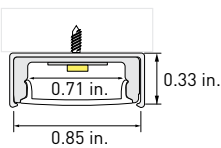
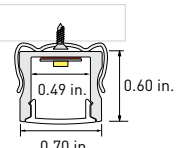
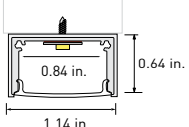
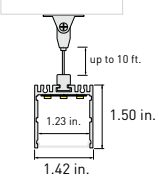
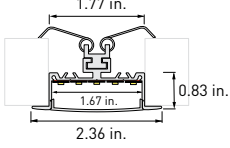
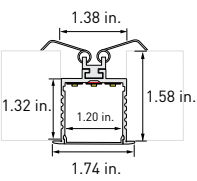
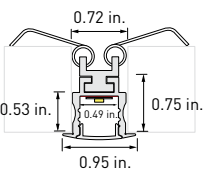
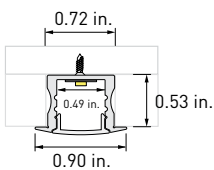
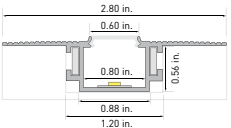
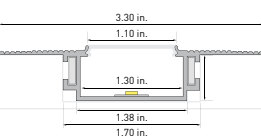
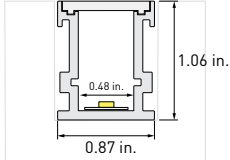
AL-98-05-99002-3



AL-98-05-99002-4

Item Number	Description	Maximum Voltage	Dimensions
AL-98-05-99001	Waterproof Cable Interconnector	450V AC	2.05 x 0.84 x 0.84 in.
AL-98-05-99002-2	Waterproof Junction Box - 2 Port	450V AC	5.5 x 2.25 x 1.46 in.
AL-98-05-99002-3	Waterproof Junction Box - 3 Port	450V AC	5.5 x 3.1 x 1.46 in.
AL-98-05-99002-4	Waterproof Junction Box - 4 Port	450V AC	5.5 x 4.1 x 1.46 in.

Reduced Hotspot Pairings (Hotspot Rating from 0-5)

Surfa 1: Surface-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector	Surfa 2: Corner-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector	Surfa 2X: Corner-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector
Surfa 6 Surround: Surface-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector	Surfa 6: Surface-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector	Surfa 7: Surface-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector
Surfa 8: Surface-Mount  Hotspot Rating: 0 ☒ Solder ☒ Connector	Suspan 1 Gen 2: Suspended  Hotspot Rating: 0 ☒ Solder ☒ Connector	Ankr 1: In-Wall  Hotspot Rating: 0 ☒ Solder ☒ Connector
Ankr 2: In-Wall  Hotspot Rating: 0 ☒ Solder ☒ Connector	Ankr 3: In-Wall  Hotspot Rating: 0 ☒ Solder ☒ Connector	Ankr 4: Mud-In  Hotspot Rating: 0 ☒ Solder ☒ Connector
Mudr 1: In-Wall  Hotspot Rating: 0 ☒ Solder ☒ Connector	Mudr 2: In-Wall  Hotspot Rating: 0 ☒ Solder ☒ Connector	Duro 1: In-Ground  Hotspot Rating: 0 ☒ Solder ☒ Connector

COMPATIBLE CHANNELS (Diagrams below not to scale)

Reduced Hotspot Pairings (Hotspot Rating from 0-5)

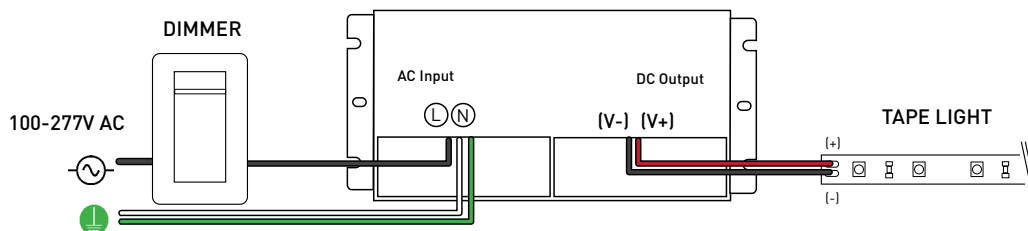
Duro 2: In-Ground Hotspot Rating: 0 ☒ Solder ☒ Connector	Polymer: Surface-Mount Hotspot Rating: 0 ☒ Solder ☒ Connector	Naro 4: Recessed Hotspot Rating: 0 ☒ Solder ☒ Connector
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ALLOY LED[®] Specifications

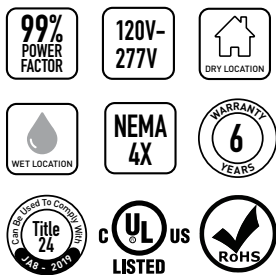
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



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

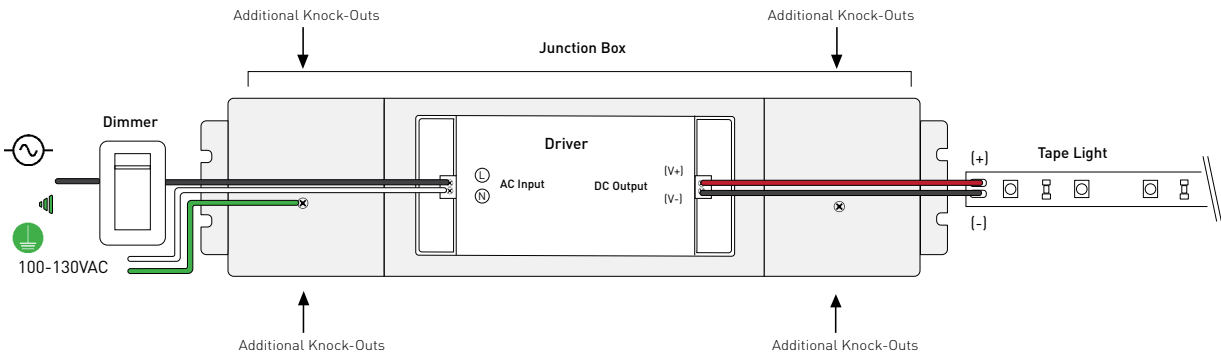
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with Incandescent, On/Off, ELV and MLV dimmers.



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.

120V

IP20

100%
Maximum Load

0%
Minimum Load

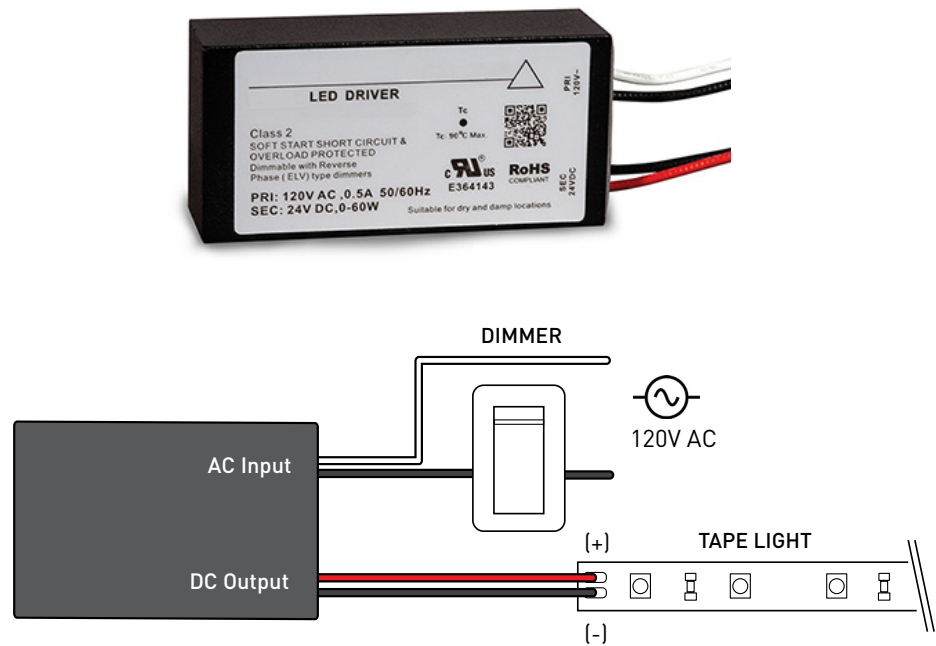
Item Number	Output Voltage	Wattage	Minimum Load	Dimensions (Junction Box) (L x W x H)	Class 2
AL-98-03-12024-NM	12V DC	24W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12048-NM	12V DC	48W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12060-NM	12V DC	60W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-12080-NM	12V DC	80W	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
YEAR

0%
Min. Load

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

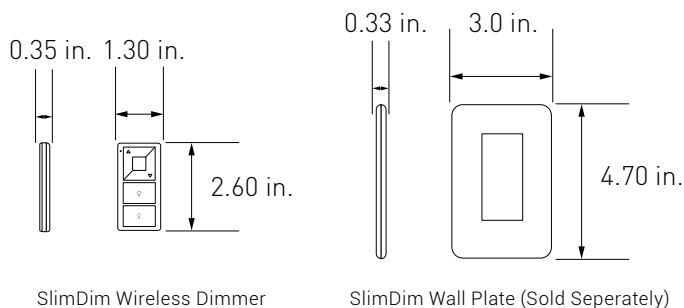
DIMMING ACCESSORIES (SOLD SEPARATELY)

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.

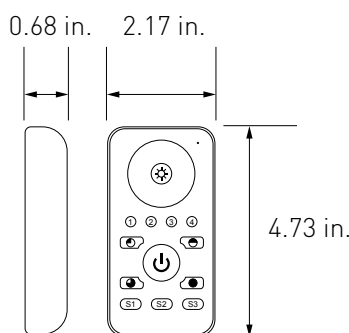
AL-70-01-0001	SlimDim Wireless Dimmer
AL-70-01-0002	Single Color Receiver (96W max.) (sold separately) 
AL-98-07-9950 -FPLATE	SlimDim Wall Plate (sold separately)



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.

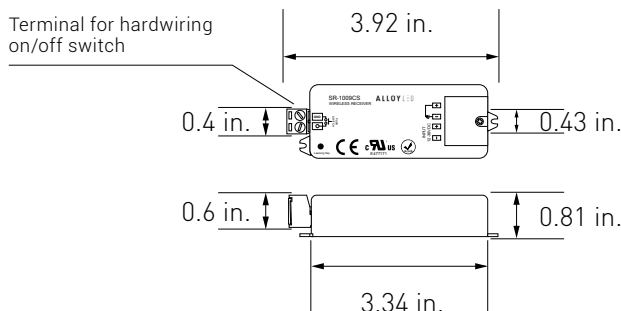
AL-60-03-0001	Remote Control Dimmer Switch
AL-70-01-0002	Single Channel Receiver (sold separately) 
AL-60-03-0004-V2	Wireless Receiver (RGB & RGBW) (sold separately) 



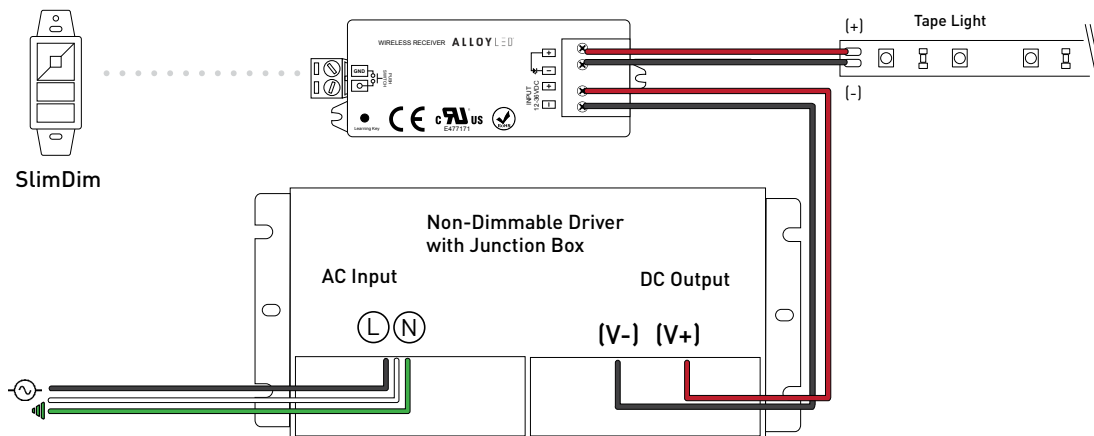
Single Channel Wireless Receiver

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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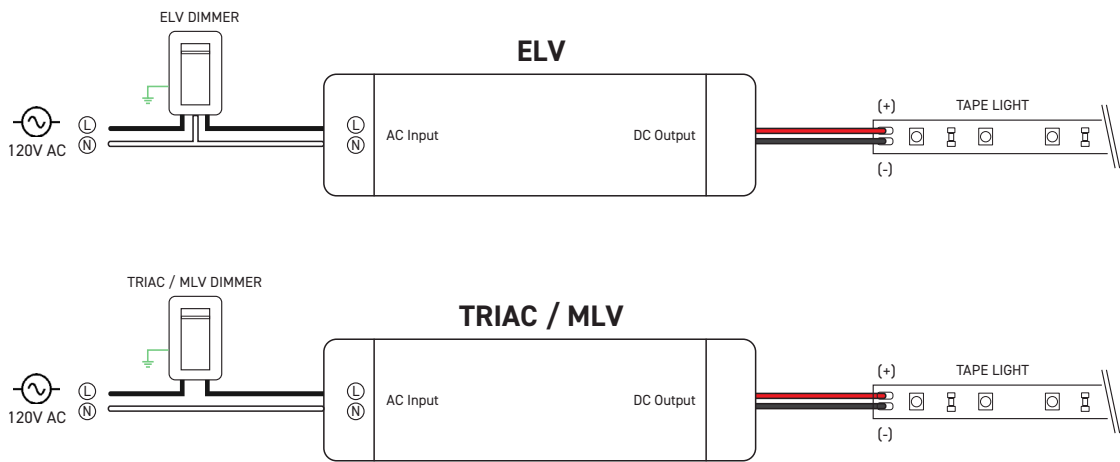
WIRING DIAGRAM



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.

120V

100%
Maximum Load

20%
Min. Load

DRY LOCATION

UL
LISTED

CLASS 2

CLASS P

TYPE HL

SELV

RoHS

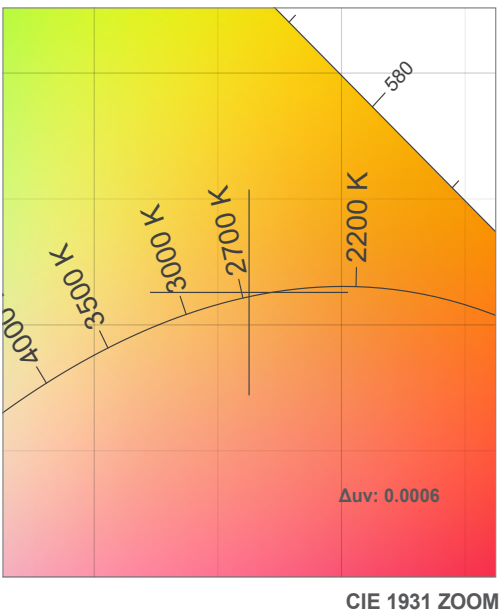
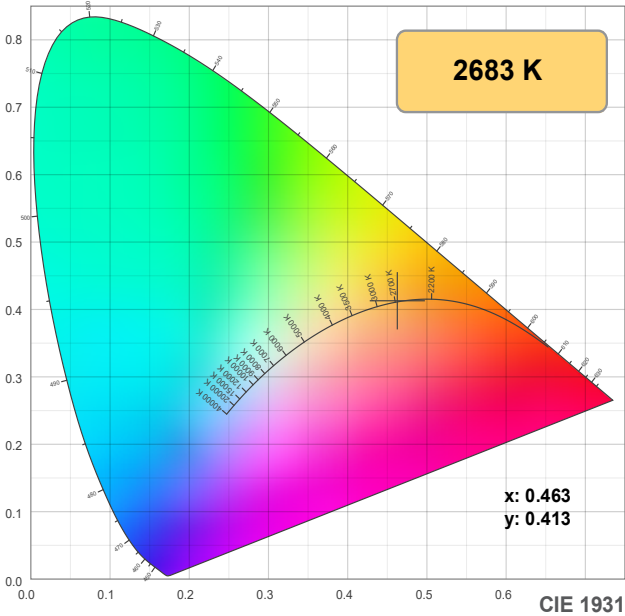
WARRANTY 5 YEARS

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

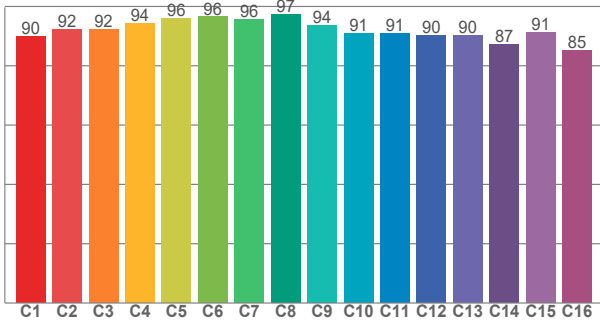
Note: Alloy LED strongly recommends using Listed Class 2 power supplies for all installations. Always install in accordance with local and national electrical code regulations. Inspectors prefer power supply to be used with junction box. For dimmer compatibility, refer to drivers specification sheet.

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

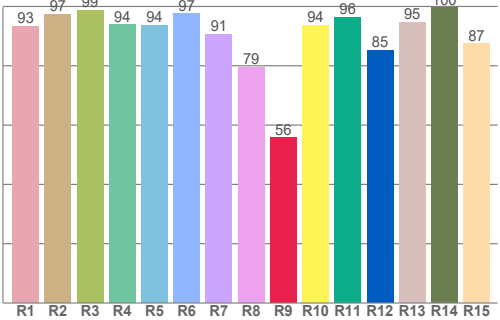
2700K



TM-30: 92.0



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
93.4	97.3	98.8	93.8	93.6	97.5	90.6	79.5	55.8	93.6	96.4	85.2	94.6	99.6	87.5

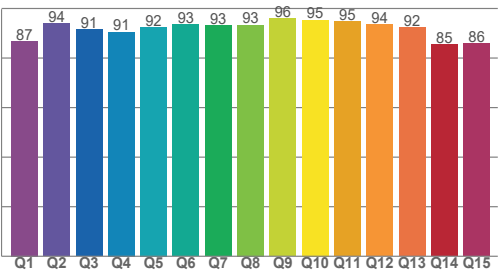
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.8	92.2	92.3	94.3	95.9	96.5	95.6	97.3	93.5	91.0	91.0	90.2	90.2	87.1	91.2	85.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86.8	94.0	91.5	90.6	92.4	93.5	93.2	93.3	96.0	95.4	94.7	93.5	92.3	85.5	86.0

CQS: 91.1



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2683 K	93.1	55.8	92.0	97.9	91.1	0.463	0.413	0.263	0.352	0.0006

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

2700K

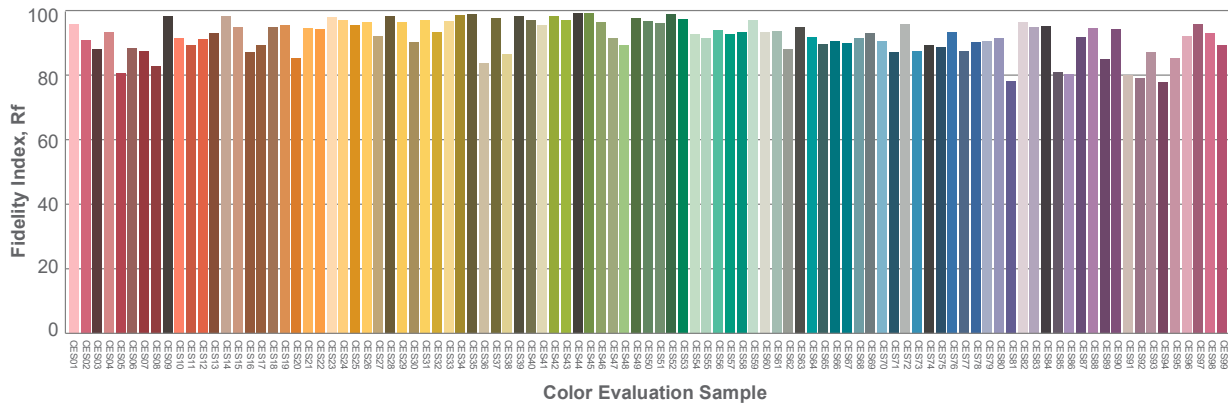
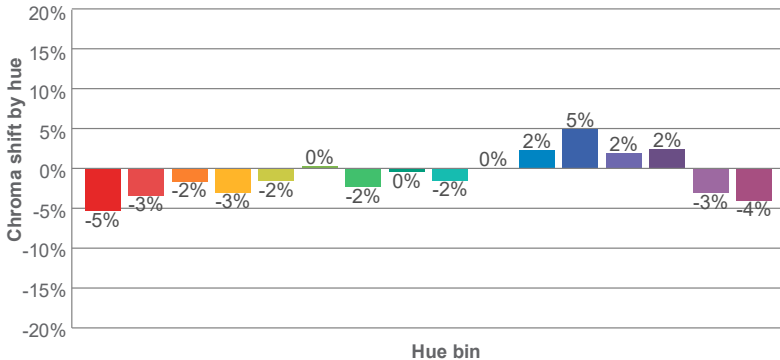
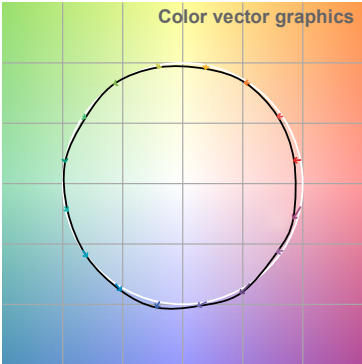
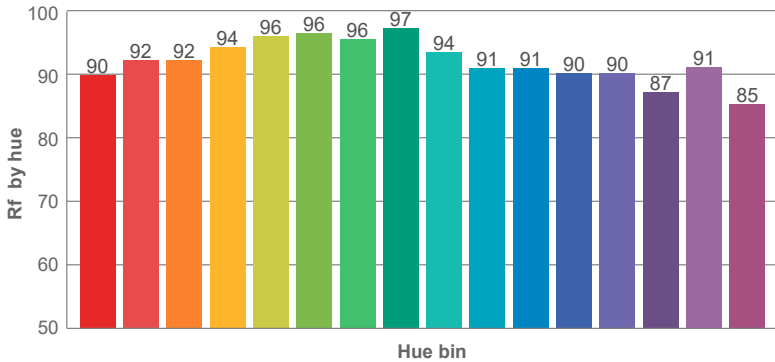
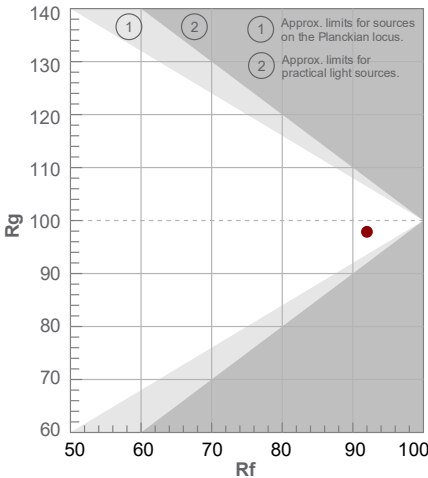
Rf 92.0

Fidelity index Rf

Rg 97.9

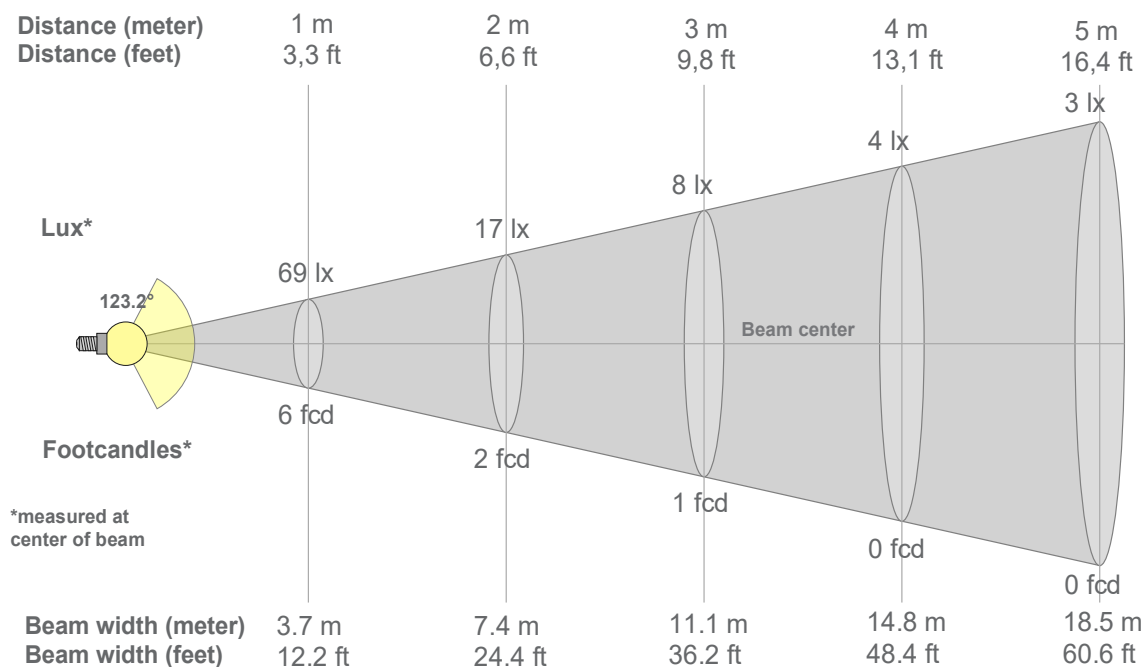
Gamut index Rg

Hue Bin	Rr	Shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	92	-3%	2%
3	92	-2%	4%
4	94	-3%	0%
5	96	-2%	2%
6	96	0%	2%
7	96	-2%	0%
8	97	0%	1%
9	94	-2%	3%
10	91	0%	6%
11	91	2%	6%
12	90	5%	-2%
13	90	2%	-7%
14	87	2%	-10%
15	91	-3%	-4%
16	85	-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
69lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
6.4fcd	1.6fcd	0.7fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
68.6	68.6	68.1	66.2	63.2	57.6	47.2	35.4	28.4	25.9	20.0	14.1	1.6	0.4	0.4	0.4	0.4	0.4	0.5	0.5
100%	100%	99%	97%	92%	84%	69%	52%	41%	38%	29%	21%	2%	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°
68.6	67.8	65.2	61.0	55.1	47.4	38.0	27.2	15.6	5.5	0.8	0.5	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5
100%	99%	95%	89%	80%	69%	55%	40%	23%	8%	1%	1%	1%	0%	0%	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°
68.6	68.6	68.1	66.2	63.2	57.6	47.2	35.4	28.4	25.9	20.0	14.1	1.6	0.4	0.4	0.4	0.4	0.4	0.5	0.5
100%	100%	99%	97%	92%	84%	69%	52%	41%	38%	29%	21%	2%	1%	1%	1%	1%	1%	1%	1%

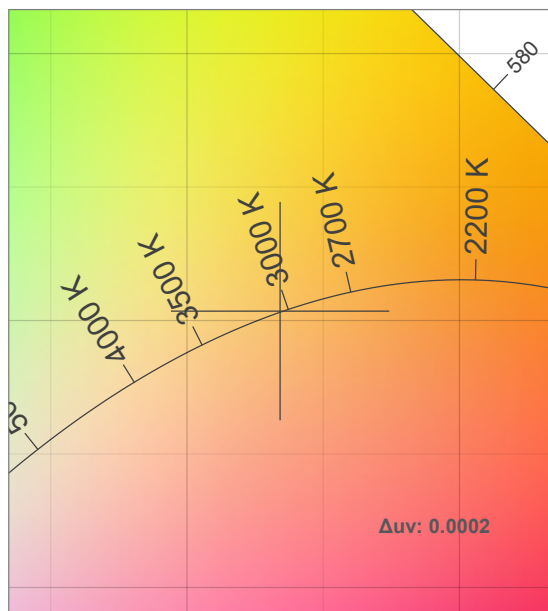
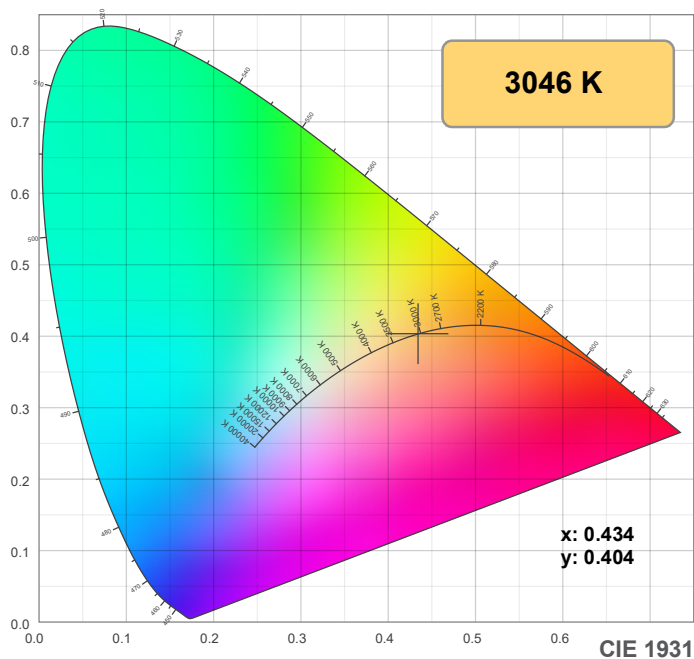
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
68.6	67.8	65.2	61.0	55.1	47.4	38.0	27.2	15.6	5.5	0.8	0.5	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5
100%	99%	95%	89%	80%	69%	55%	40%	23%	8%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%

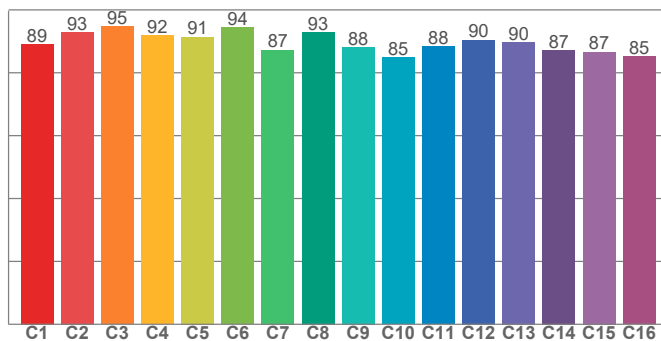
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
123.2°	189.3°	201.9°	68.3%	44.9%

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

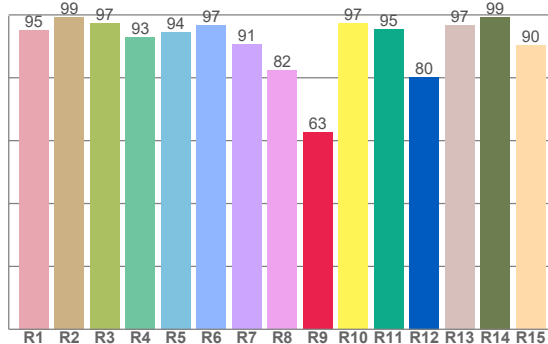
3000K



TM-30: 89.9



CRI: 93.6 (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
95.1	99.2	97.3	93.0	94.5	96.7	90.6	82.3	62.6	97.2	95.4	80.2	96.7	99.4	90.2

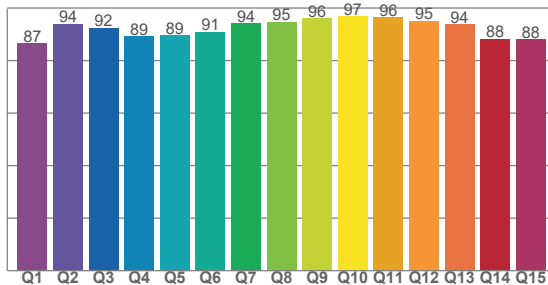
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.1	92.9	94.7	91.8	91.4	94.4	87.3	93.0	88.2	84.9	88.3	90.4	89.7	87.2	86.6	85.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86.5	94.0	92.5	89.2	89.5	90.9	94.1	94.7	96.0	96.8	96.3	95.0	93.8	88.1	88.0

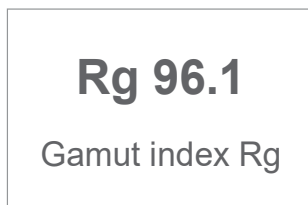
CQS: 91.5



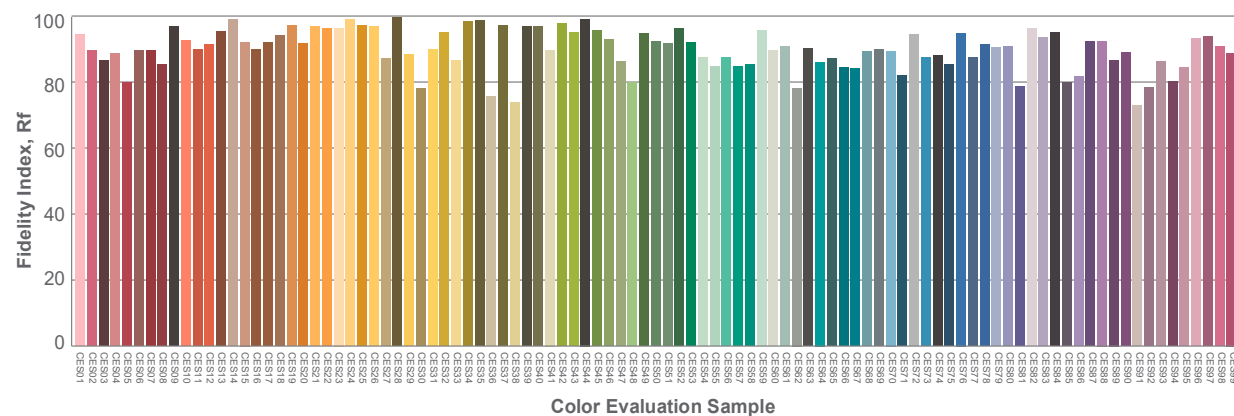
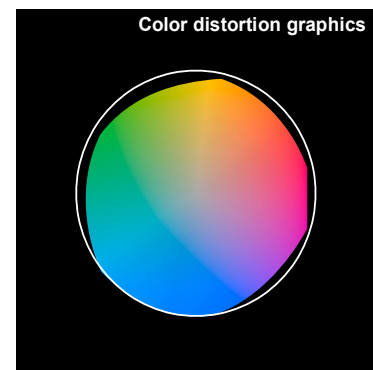
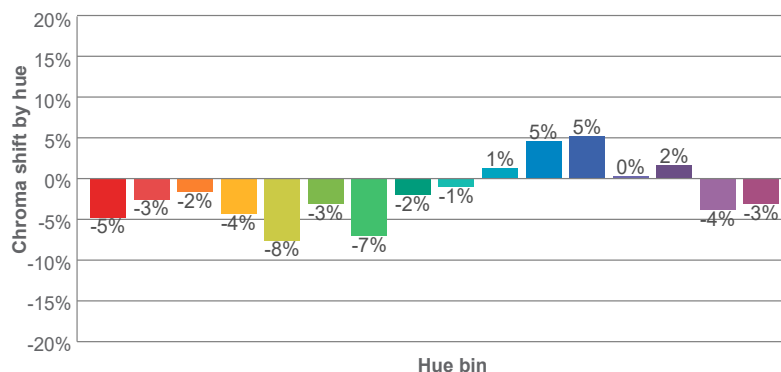
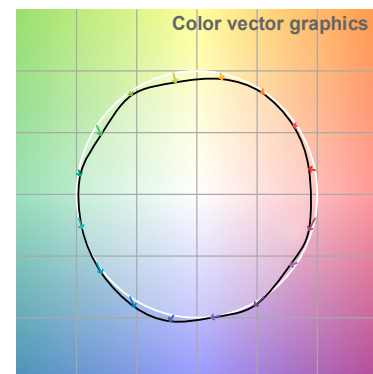
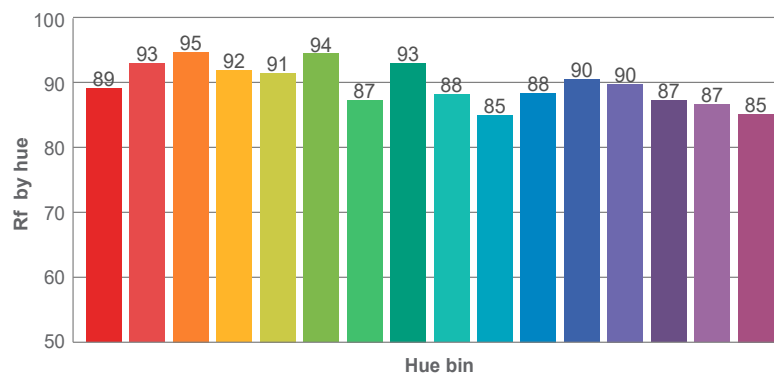
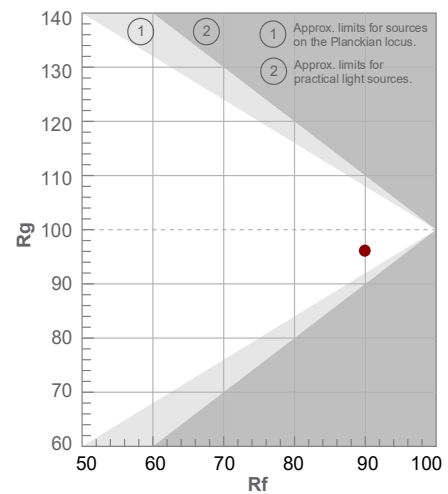
Color parameters

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
3046 K	93.6	62.6	89.9	96.1	91.5	0.434	0.404	0.249	0.347	0.0002

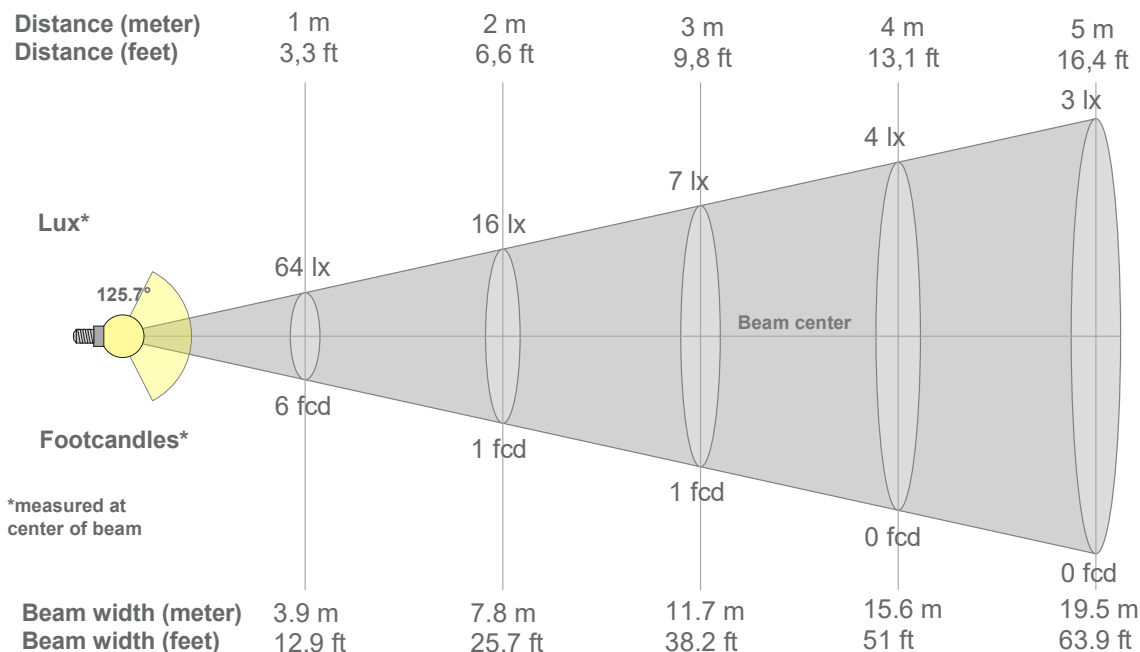
Note: specifications are representative of the diode type and not a particular tape light article.



		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	89	-5%	2%
2	93	-3%	2%
3	95	-2%	1%
4	92	-4%	-2%
5	91	-8%	0%
6	94	-3%	1%
7	87	-7%	4%
8	93	-2%	4%
9	88	-1%	8%
10	85	1%	9%
11	88	5%	8%
12	90	5%	-2%
13	90	0%	-8%
14	87	2%	-10%
15	87	-4%	-5%
16	85	-3%	-10%



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
64lx	16lx	7lx	4lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
5.9fcd	1.5fcd	0.7fcd	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°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
63.5	63.8	63.4	62.8	61.2	55.3	45.0	34.4	28.8	28.0	23.4	11.7	3.1	0.5	0.4	0.4	0.4	0.4	0.4	0.5
100%	100%	100%	99%	96%	87%	71%	54%	45%	44%	37%	18%	5%	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°
63.5	62.6	60.3	56.4	51.0	44.0	35.4	25.5	14.9	5.6	1.2	0.6	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5
100%	98%	95%	89%	80%	69%	56%	40%	23%	9%	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°
63.5	63.8	63.4	62.8	61.2	55.3	45.0	34.4	28.8	28.0	23.4	11.7	3.1	0.5	0.4	0.4	0.4	0.4	0.4	0.5
100%	100%	100%	99%	96%	87%	71%	54%	45%	44%	37%	18%	5%	1%	1%	1%	1%	1%	1%	1%

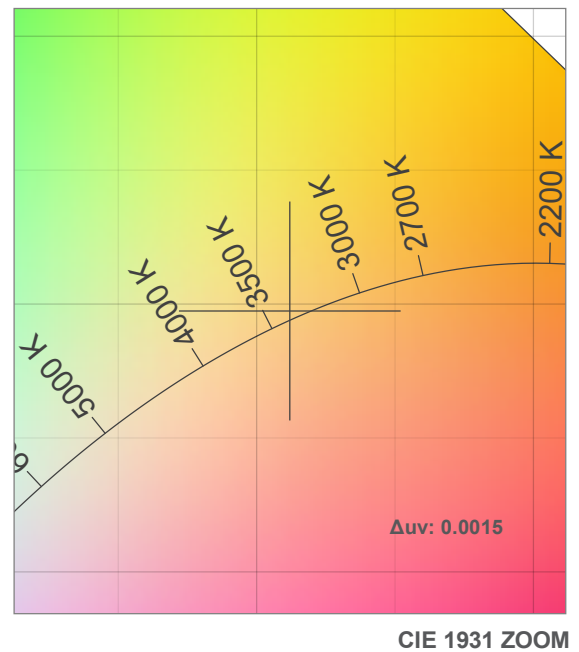
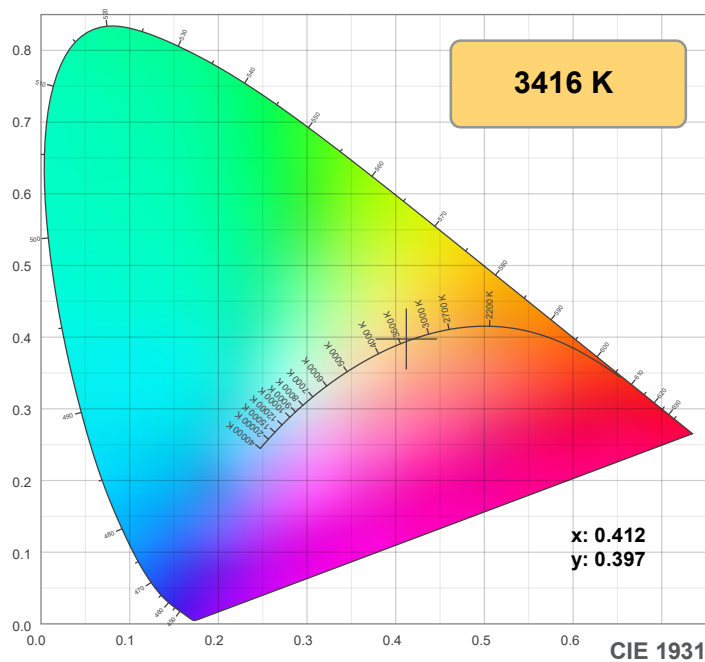
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
63.5	62.6	60.3	56.4	51.0	44.0	35.4	25.5	14.9	5.6	1.2	0.6	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5
100%	98%	95%	89%	80%	69%	56%	40%	23%	9%	2%	1%	1%	1%	1%	1%	1%	1%	1%	1%

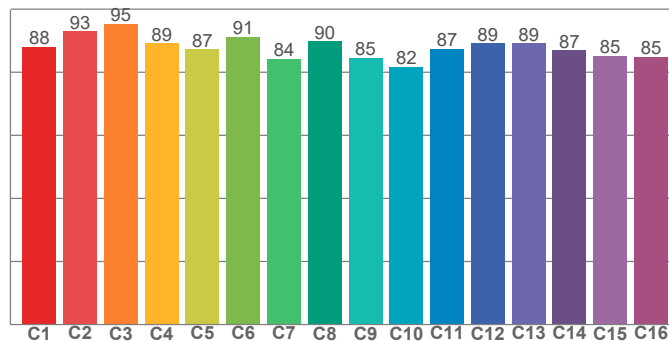
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
125.7°	190.4°	206.2°	66.7%	43.6%

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

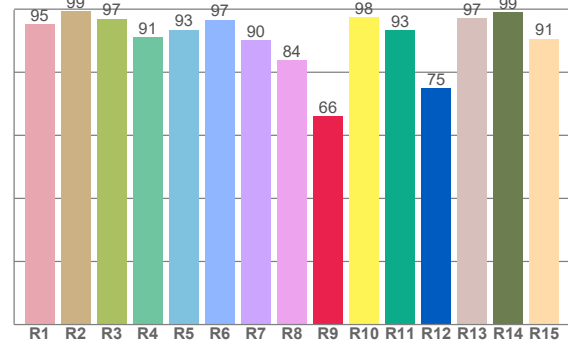
3500K



TM-30: 87.9



CRI: 93.4 (R1-R8)



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

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.3	99.4	97.0	91.0	93.5	96.7	90.3	83.8	66.1	97.6	93.4	75.0	97.1	99.0	90.6

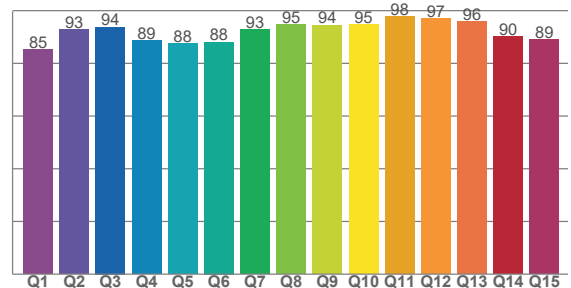
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88.1	93.0	95.4	89.2	87.2	91.2	84.3	89.9	84.6	81.7	87.5	89.2	89.2	86.9	85.2	84.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.1	92.9	93.8	88.7	87.6	88.1	92.9	94.7	94.5	94.8	97.7	97.1	95.9	90.1	89.1

CQS: 91.3



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color division from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3416 K	93.4	66.1	87.9	94.6	91.3	0.412	0.397	0.237	0.343	0.0015

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

3500K

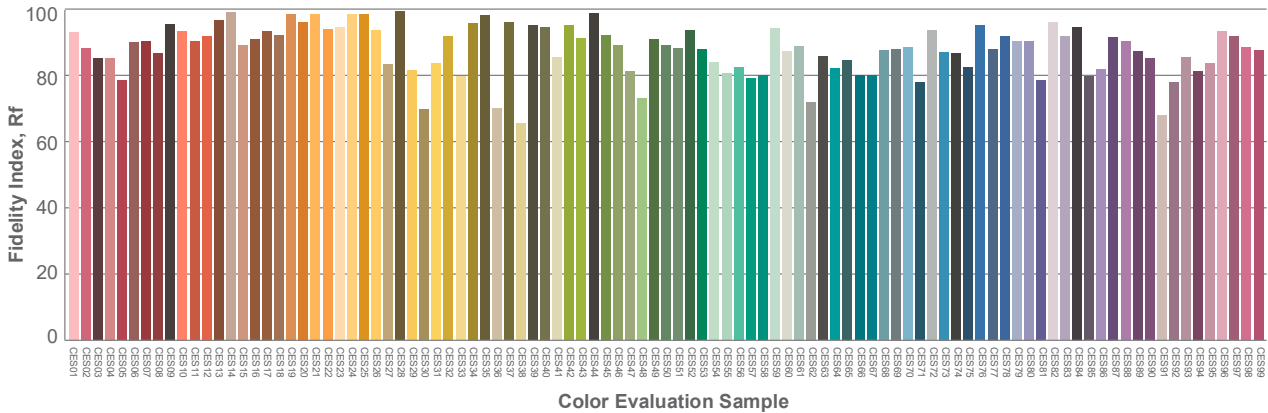
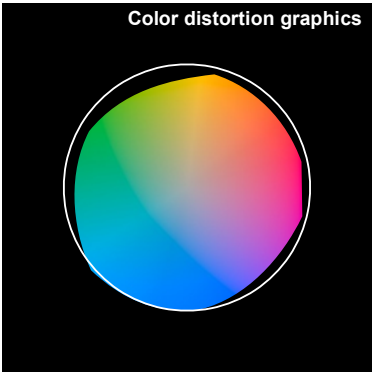
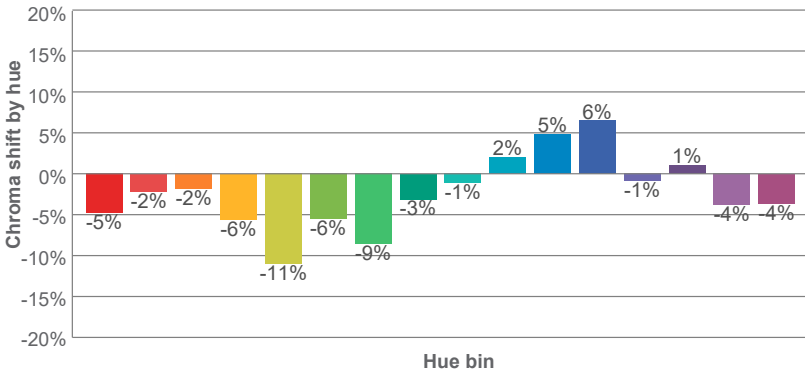
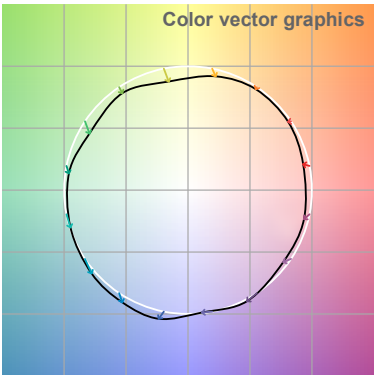
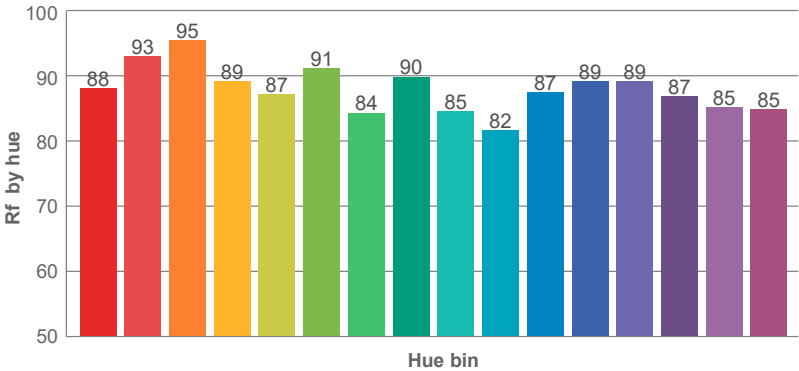
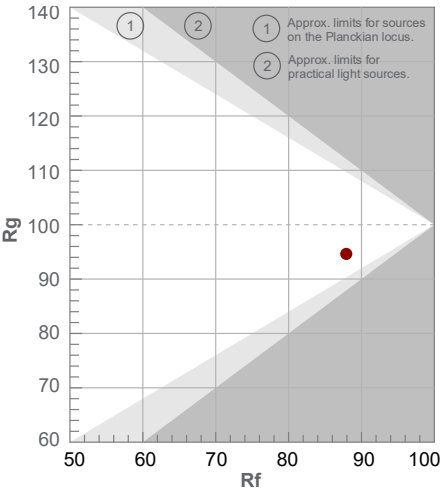
Rf 87.9

Fidelity index Rf

Rg 94.6

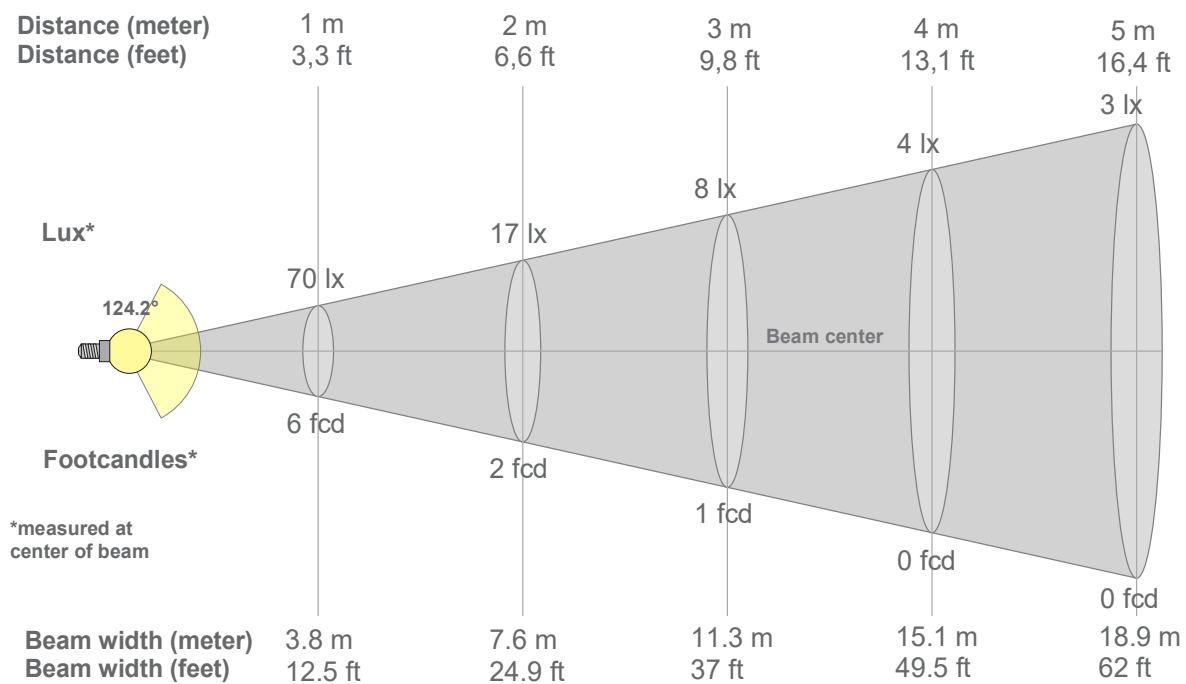
Gamut index Rg

Hue Bin	Ri	Shifts (%)	
		Chroma	Hue
1	88	-5%	2%
2	93	-2%	1%
3	95	-2%	0%
4	89	-6%	-4%
5	87	-11%	-2%
6	91	-6%	1%
7	84	-9%	6%
8	90	-3%	5%
9	85	-1%	11%
10	82	2%	13%
11	87	5%	6%
12	89	6%	-3%
13	89	-1%	-8%
14	87	1%	-10%
15	85	-4%	-6%
16	85	-4%	-5%



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
70lx	17lx	8lx	4lx	3lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
6.5fcd	1.6fcd	0.7fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
69.8	69.7	69.0	67.7	65.9	59.7	48.4	36.3	30.0	29.2	22.6	13.3	1.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5
100%	100%	99%	97%	94%	86%	69%	52%	43%	42%	32%	19%	2%	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°
69.8	69.0	66.4	62.2	56.3	48.7	39.2	28.1	16.2	5.7	0.9	0.5	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5
100%	99%	95%	89%	81%	70%	56%	40%	23%	8%	1%	1%	1%	0%	0%	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°
69.8	69.7	69.0	67.7	65.9	59.7	48.4	36.3	30.0	29.2	22.6	13.3	1.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5
100%	100%	99%	97%	94%	86%	69%	52%	43%	42%	32%	19%	2%	1%	1%	1%	1%	1%	1%	1%

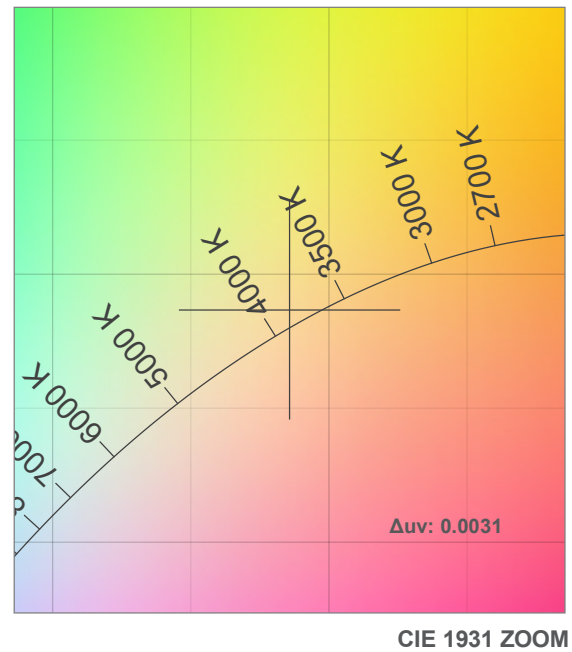
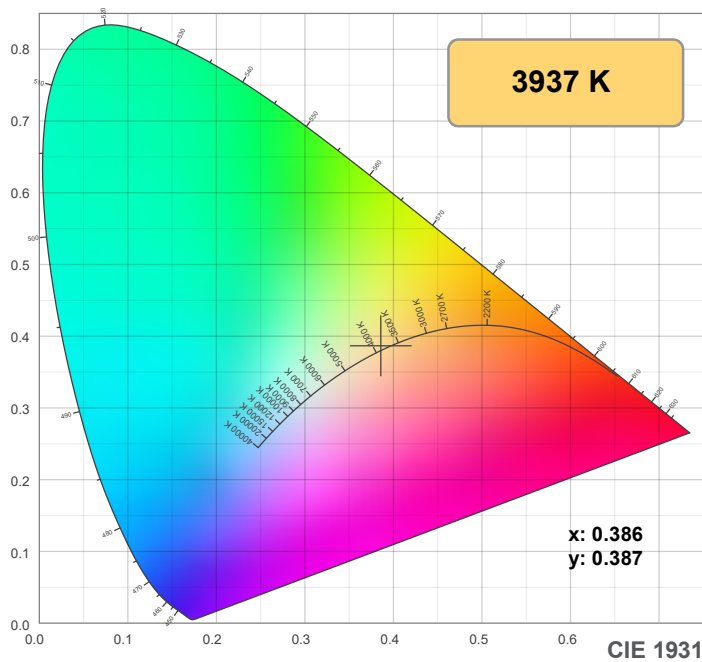
Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
69.8	69.0	66.4	62.2	56.3	48.7	39.2	28.1	16.2	5.7	0.9	0.5	0.4	0.3	0.3	0.4	0.4	0.4	0.5	0.5
100%	99%	95%	89%	81%	70%	56%	40%	23%	8%	1%	1%	1%	0%	0%	1%	1%	1%	1%	1%

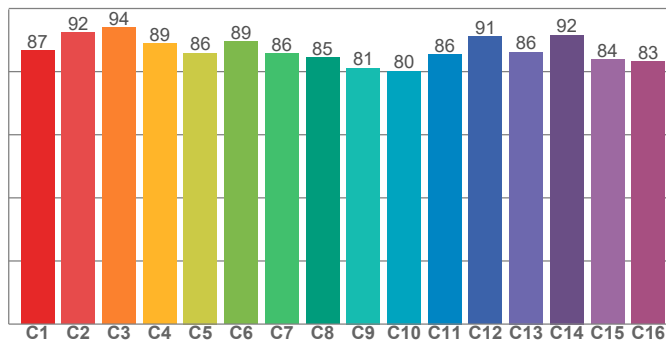
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
124.2°	189.4°	201.5°	67.7%	44.3%

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

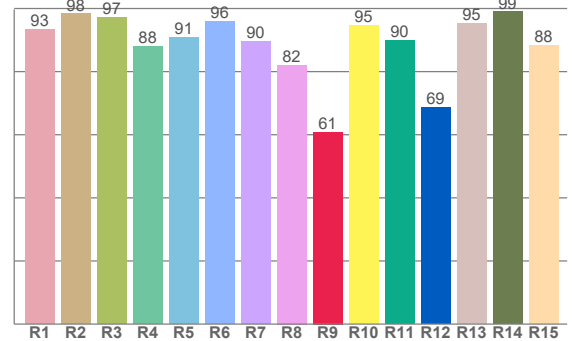
4000K



TM-30: 86.6



CRI: 91.9 (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
93.3	98.3	97.2	88.0	90.8	96.0	89.6	82.1	60.9	94.7	89.8	68.7	95.3	99.0	88.4

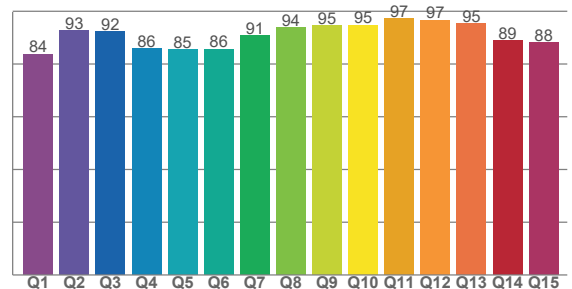
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
86.7	92.4	94.0	88.9	85.9	89.4	85.6	84.6	81.1	80.2	85.6	91.1	86.2	91.6	83.9	83.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.8	92.7	92.3	85.9	85.3	85.6	90.8	93.7	94.7	94.7	97.3	96.6	95.4	89.0	88.2

CQS: 90.1



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3937 K	91.9	60.9	86.6	93.5	90.1	0.386	0.387	0.225	0.338	0.0031

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

4000K

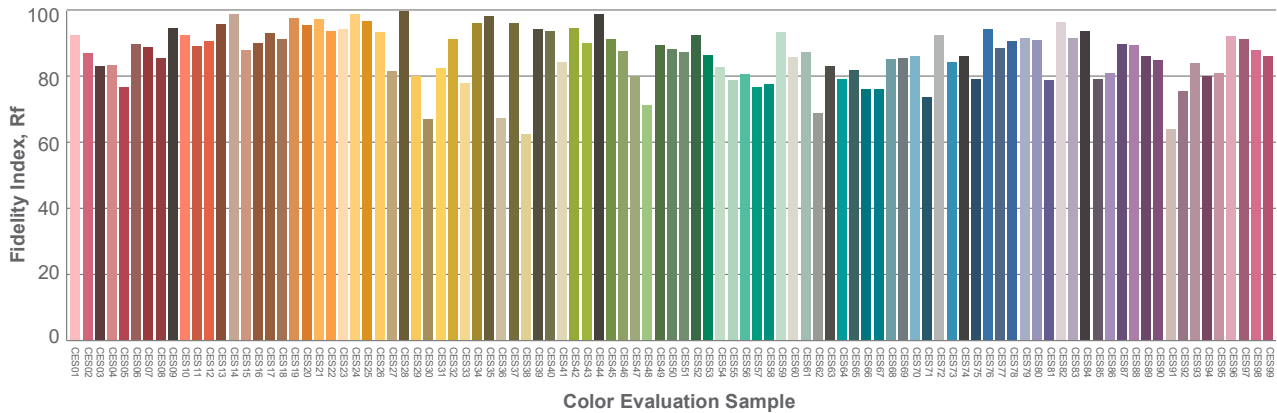
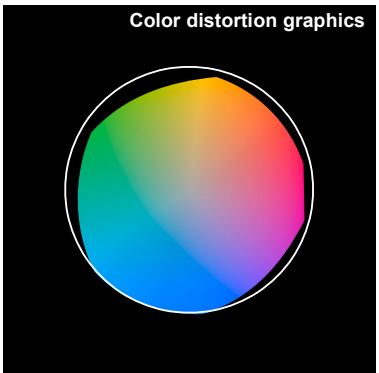
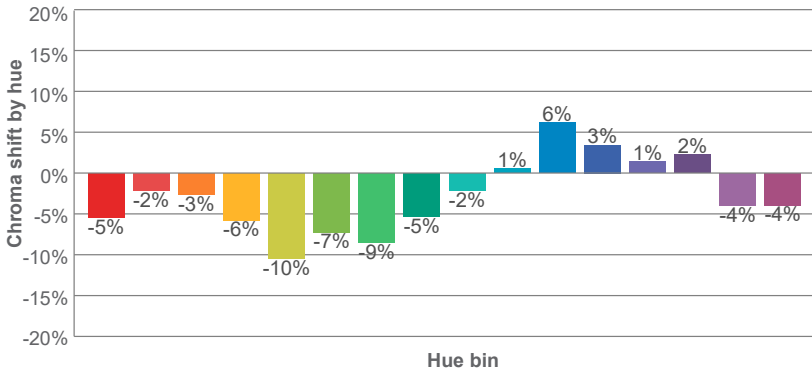
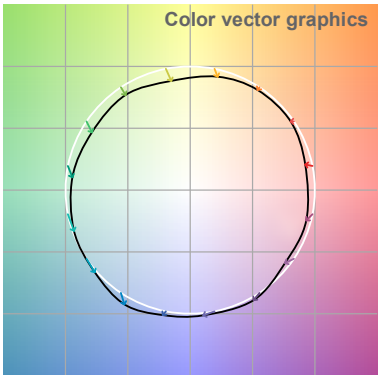
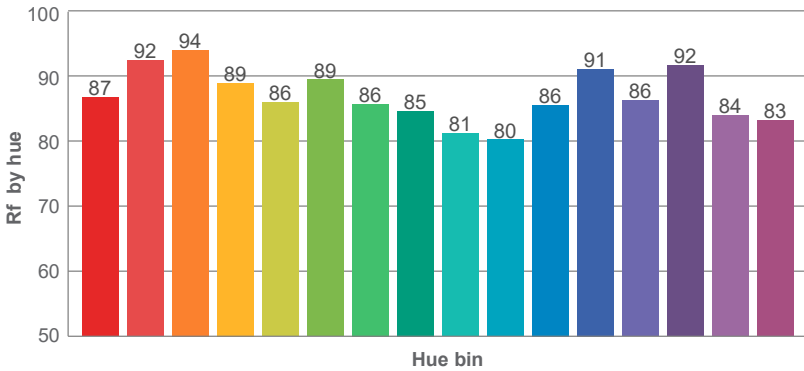
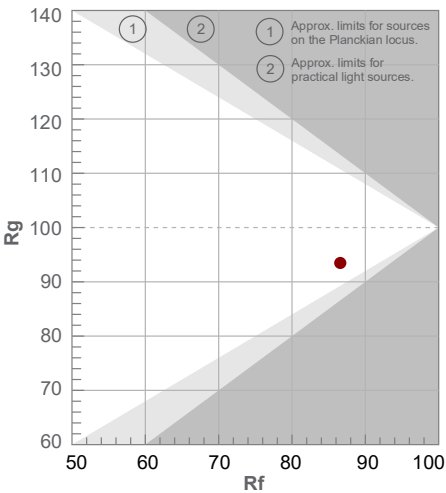
Rf 86.6

Fidelity index Rf

Rg 93.5

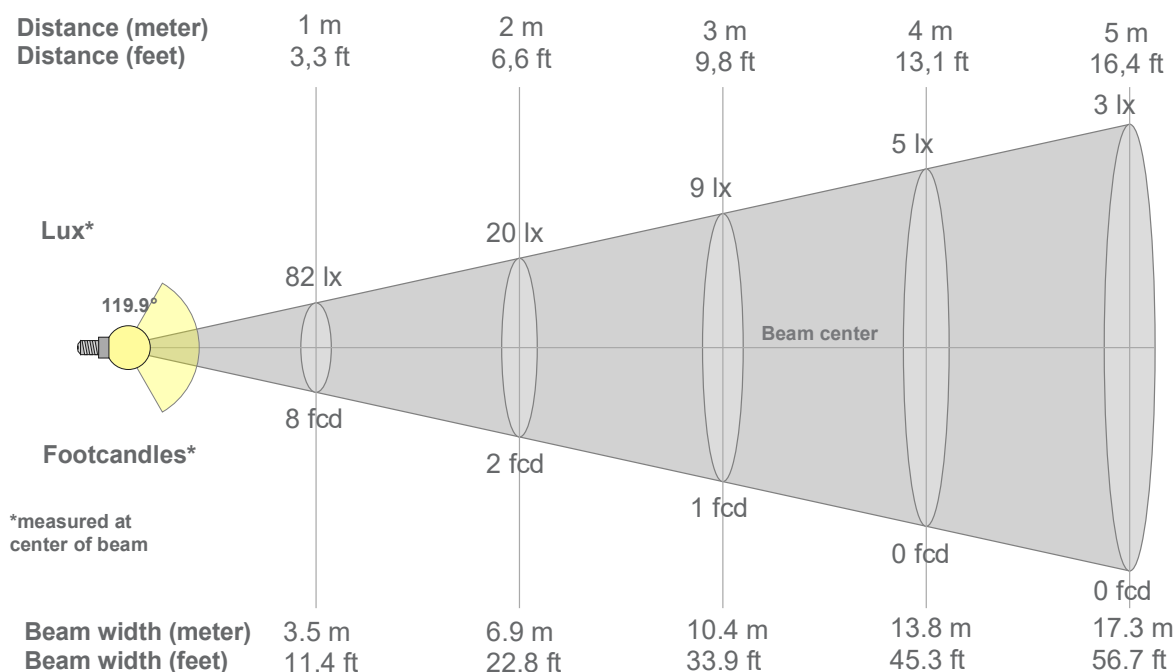
Gamut index Rg

Hue Bin	Rr	Shifts (%)	
		Chroma	Hue
1	87	-5%	2%
2	92	-2%	1%
3	94	-3%	0%
4	89	-6%	-4%
5	86	-10%	-2%
6	89	-7%	0%
7	86	-9%	5%
8	85	-5%	8%
9	81	-2%	14%
10	80	1%	13%
11	86	6%	7%
12	91	3%	-2%
13	86	1%	-9%
14	92	2%	-7%
15	84	-4%	-7%
16	83	-4%	-6%



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
82lx	20lx	9lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
7.6fcd	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°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
81.9	81.5	79.9	77.2	73.6	65.8	51.9	35.2	30.4	29.4	19.1	10.6	3.4	0.7	0.4	0.4	0.5	0.5	0.5	0.6
100%	100%	98%	94%	90%	80%	63%	43%	37%	36%	23%	13%	4%	1%	0%	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°
81.9	81.0	78.0	73.2	66.3	57.4	46.3	33.1	18.8	6.4	1.0	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.6
100%	99%	95%	89%	81%	70%	57%	40%	23%	8%	1%	1%	0%	0%	0%	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°
81.9	81.5	79.9	77.2	73.6	65.8	51.9	35.2	30.4	29.4	19.1	10.6	3.4	0.7	0.4	0.4	0.5	0.5	0.5	0.6
100%	100%	98%	94%	90%	80%	63%	43%	37%	36%	23%	13%	4%	1%	0%	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°
81.9	81.0	78.0	73.2	66.3	57.4	46.3	33.1	18.8	6.4	1.0	0.5	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.6
100%	99%	95%	89%	81%	70%	57%	40%	23%	8%	1%	1%	0%	0%	0%	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
119.9°	185.1°	203°	70.4%	46.6%