

ALLOY LED® Specifications

ThermaLine™ 3 High-Temperature LED Tape Light



ThermaLine™ 3 High-Temperature LED Tape Light is an IP67-rated tape light engineered to perform in environments where traditional LEDs can't. Fully encased in heat-resistant silicone and with premium gold contact points, ThermaLine 3 ensures long-term reliability and optimal performance. Its frosted surface enhances light diffusion and resists dust buildup, making it ideal for steam rooms, saunas, fireplaces, hot yoga studios, and demanding commercial kitchen environments.

- Gold contact points for superior conductivity and corrosion resistance
- IP67 rating through our Built-to-Order program for moisture protection
- Frosted silicone surface for even light distribution and dust resistance
- Withstands high-temperature environments with robust thermal resilience

TECHNICAL INFORMATION

Stocked Color Temperature	2700K, 3000K, 3500K, 4000K, 5000K	Dimmable	Yes
Power Consumption per Foot	3 Watts	Diode Type	COB
Input Voltage	24V DC	Mounting	3M™ Self-Adhesive Tape (Non-porous)
Diodes per Foot	146	Operating Temperature	32° F to 248° F
Diode Spacing	0.082 inches	Ambient Temperature	-40° F to 221° F
Tape Height	0.216 inches	Spool Length	16.4 ft.
Tape Width	0.47 inches	Environment	High-Heat, Saunas, Steam rooms
Beam Angle	110°	Certifications	UL 2108 Listed, RoHS
Field Cuttable (UL 2108)	Every 1.97 in.	Warranty	6 Year Limited
Maximum Run Length	16.4 ft.		

Each spool includes 8 in., 20 AWG tinned lead wire to one end of the tape light.

PRODUCT INFORMATION

Item Number	Color Temperature	Voltage	Lumens	CRI	Spool Length
AL-01-65-2461	2700K	24V DC	343	91.4	16.4 ft.
AL-01-65-2462	3000K	24V DC	317	91.7	16.4 ft.
AL-01-65-2468	3500K	24V DC	370	91.1	16.4 ft.
AL-01-65-2463	4000K	24V DC	372	92.7	16.4 ft.
AL-01-65-2464	5000K	24V DC	374	91.1	16.4 ft.

VOLTAGE DROP GUIDANCE CHART

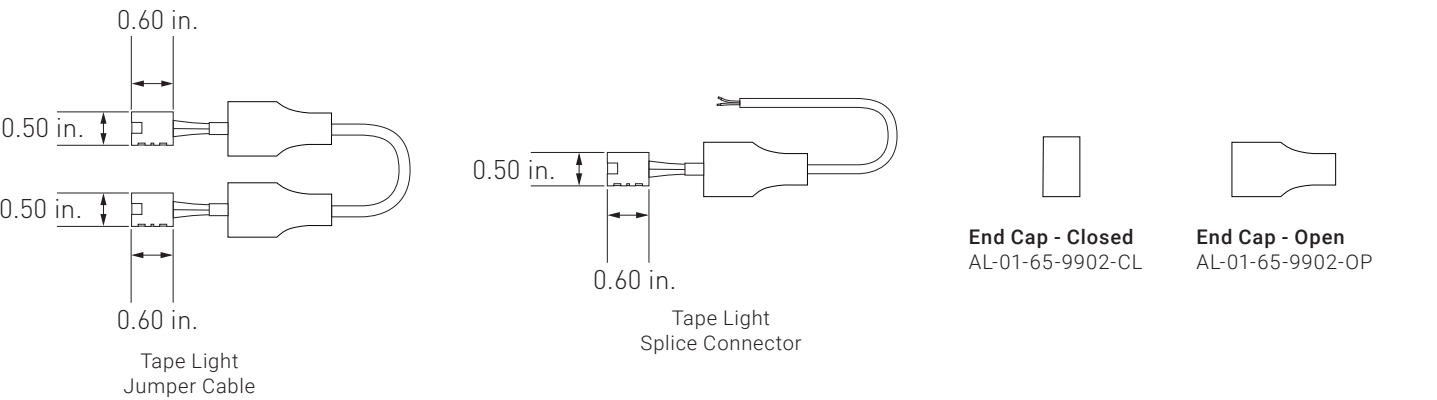
Standard Non-XT 24V Voltage Drop and Wire Length Distance Chart (3% Drop or 24V)

Wire Gauge	Copper Wire Resistance (O/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.

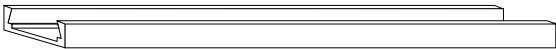
ACCESSORIES (SOLD SEPARATELY)

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



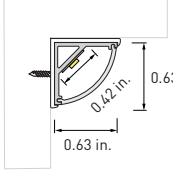
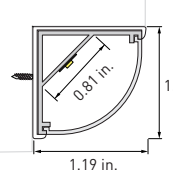
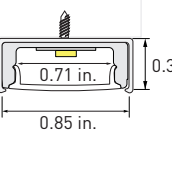
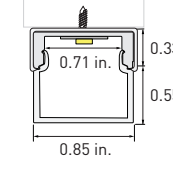
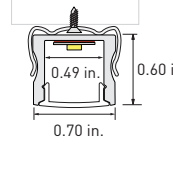
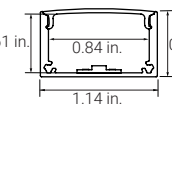
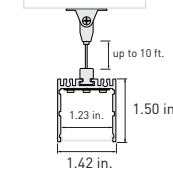
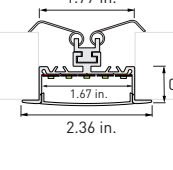
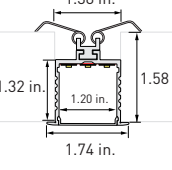
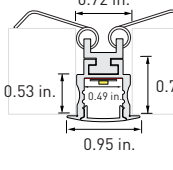
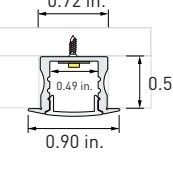
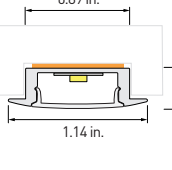
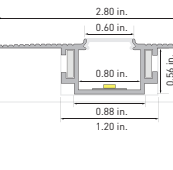
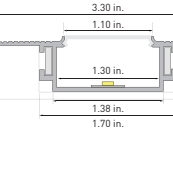
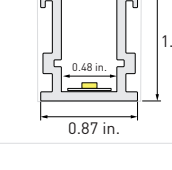
Item Number	Description	Wire Length
AL-01-65-9920	Tape Light Jumper Cable	12 ft.
AL-01-65-9907	Hard Wire - Tape Light Splice Connector	36 in.

Surface-Mount Channel track



Item Number	Description
AL-50-05-0011-AL-PART	Channel - 4 ft. Aluminum finish
AL-50-05-0015-AL-PART	Channel - 7 ft. Aluminum finish

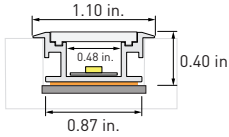
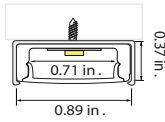
Hotspot Pairings (Hotspot Rating from 0-5)

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

ALLOY LED® Specifications

COMPATIBLE CHANNELS (Diagrams below not to scale)

Hotspot Pairings (Hotspot Rating from 0-5)

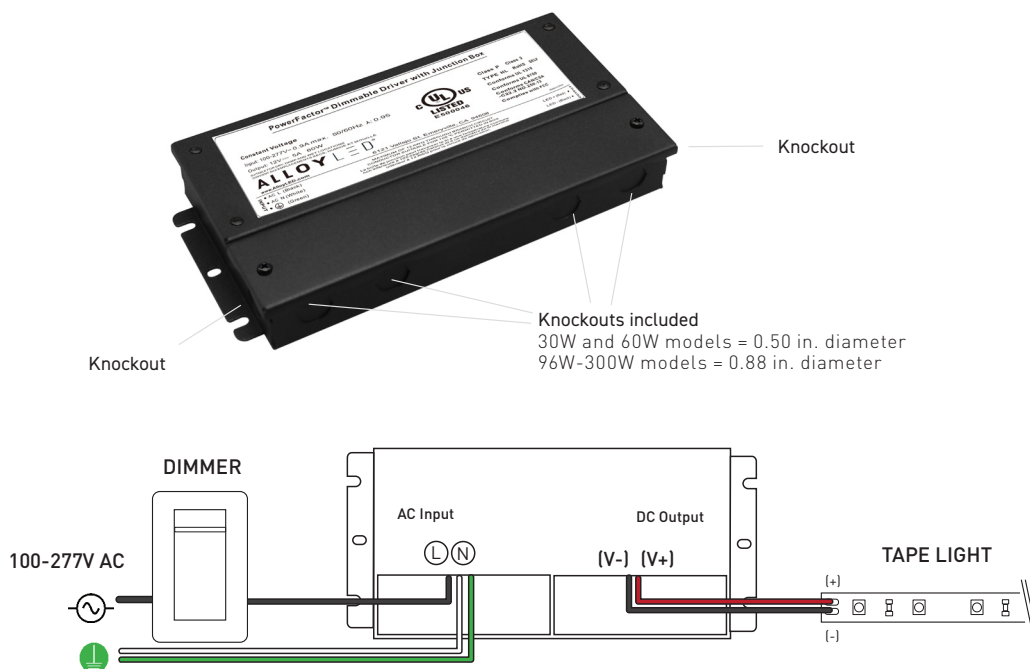
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ALLOY LED[®] Specifications

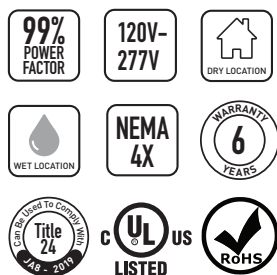
RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)



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-98-10-24030	24V DC	30W	Yes (NEMA 4X)	10%	6.50 x 3.72 x 1.02 in.	Yes
AL-98-10-24060	24V DC	60W	Yes (NEMA 4X)	10%	7.40 x 3.72 x 1.02 in.	Yes
AL-98-10-24096	24V DC	96W	Yes (NEMA 4X)	10%	8.66 x 3.72 x 1.57 in.	Yes
AL-98-10-24150	24V DC	150W	Yes (NEMA 4X)	10%	10.24 x 4.13 x 1.77 in.	No
AL-98-10-24200	24V DC	200W	Yes (NEMA 4X)	10%	10.24 x 4.13 x 1.77 in.	No
AL-98-10-24300	24V DC	300W	Yes (NEMA 4X)	10%	10.94 x 4.33 x 1.77 in.	No

Class 2 Compliant Multi-Tap Models

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

Note: PowerFactor assumes 80% load.
Inspectors prefer power supply to be used with junction box.
For dimmer compatibility, refer to drivers specification sheet.

ALLOY LED® Specifications

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

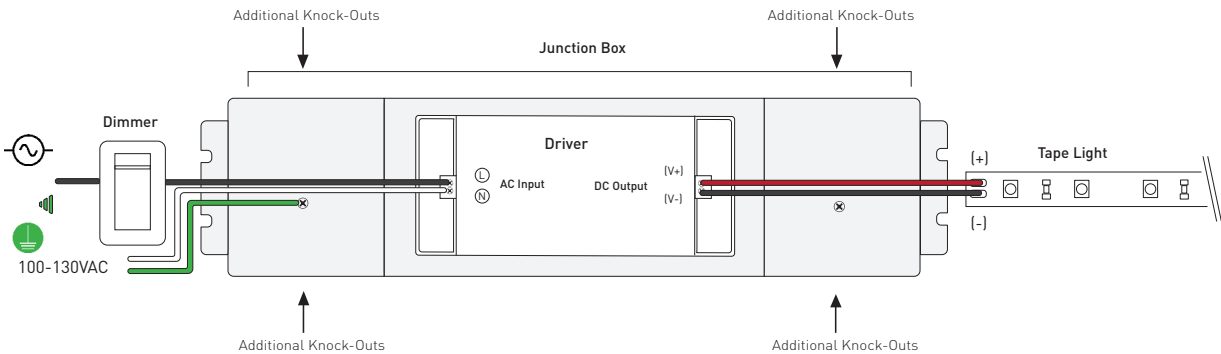
Alloy LED Primavolt® No Minimum Load Dimmable Power Supplies with ETL Listed Junction Box
Code-compliant power supply with versatile and smooth dimming capabilities. Compatible with Incandescent, On/Off, ELV and MLV dimmers.



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

DRY LOCATION

100%
Maximum Load

0%
Minimum Load

5 YEARS WARRANTY

ETL LISTED

RoHS

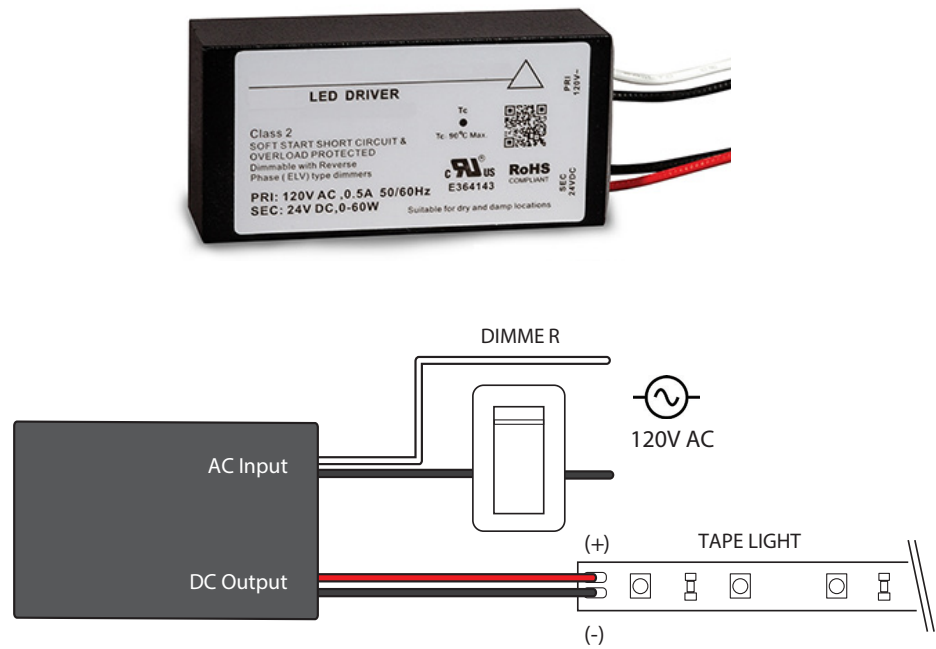
Item Number	Output Voltage	Wattage	Minimum Load	Dimensions (Junction Box) (L x W x H)	Class 2
AL-98-03-24024-NM	24V DC	24W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24048-NM	24V DC	48W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24060-NM	24V DC	60W	0%	13.78 x 3.03 x 1.46 in.	Yes
AL-98-03-24080-NM	24V DC	80W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

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

RECOMMENDED POWER SUPPLIES (SOLD SEPARATELY)

ELV Dimmable Power Supplies for Remote Enclosures

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



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

120V

98%
POWER
FACTOR

WARRANTY
5
YEARS

0%
Min. Load

CULUS

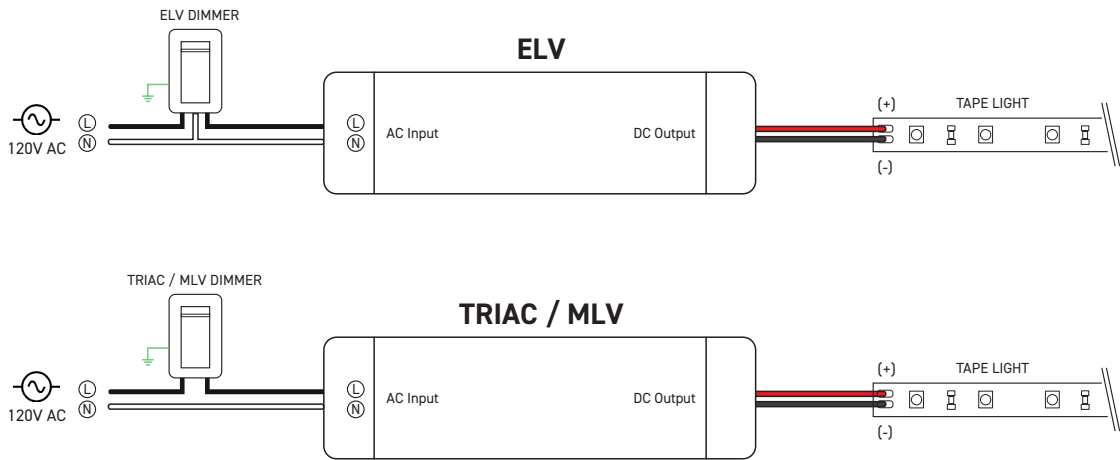
Item Number	Output	Wattage	Dimensions (L x W x H)	Class 2
AL-98-08-24060	24V DC	60W	2.66 x 1.30 x 0.83 in.	Yes

Note: Inspectors prefer power supply to be used with junction box.
For dimmer compatibility, refer to drivers specification sheet.

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

LISTED

CLASS 2

CLASS P

TYPE HL

SELV

Item Number	Output Voltage	Wattage	Dimensions (L x W x H)	Class 2
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.

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-98-07-24040	24V DC	40W	N/A	Yes
AL-98-07-24040-3WIRE	24V DC	40W	N/A	Yes
AL-98-07-24096-3WIRE	24V DC	96W	N/A	Yes

Lutron[®] Controls

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

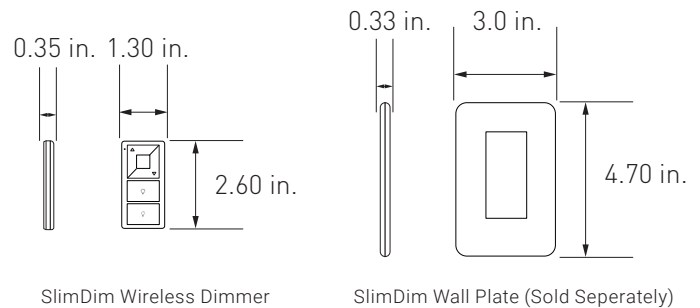
DIMMING ACCESSORIES (SOLD SEPARATELY)

Dimmers and Switches

SlimDim Wireless Dimmer Switch

Using long-range RF technology, these LED dimmers connect wirelessly to a receiver, offering freedom to mount anywhere. Can also be used as a fob for mobile, hand-held control.

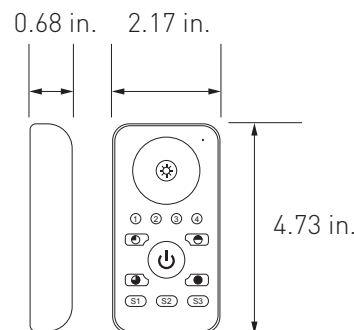
AL-70-01-0001	SlimDim Wireless Dimmer
AL-70-01-0002	Single Color Receiver (96W max.) (sold separately) 
AL-98-07-9950 -FPLATE	SlimDim Wall Plate (sold separately)



Remote Control Dimmer Switch

Provides full dimming and on/off control, and includes a touch wheel that allows for direct visual selection of brightness. It can also operate up to four independent zones.

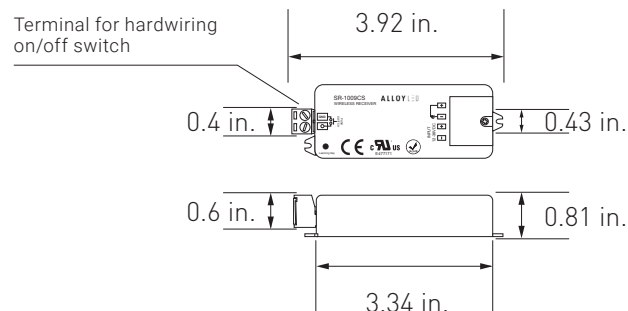
AL-60-03-0001	Remote Control Dimmer Switch
AL-70-01-0002	Single Channel Receiver (sold separately) 
AL-60-03-0004-V2	Wireless Receiver (RGB & RGBW) (sold separately) 



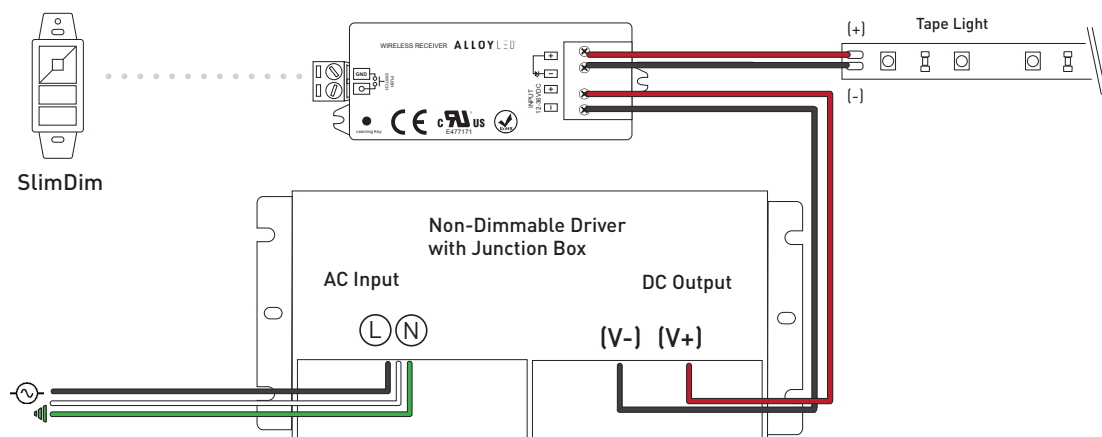
Single Channel Wireless Receiver

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

AL-70-01-0002	Single Channel Wireless Receiver
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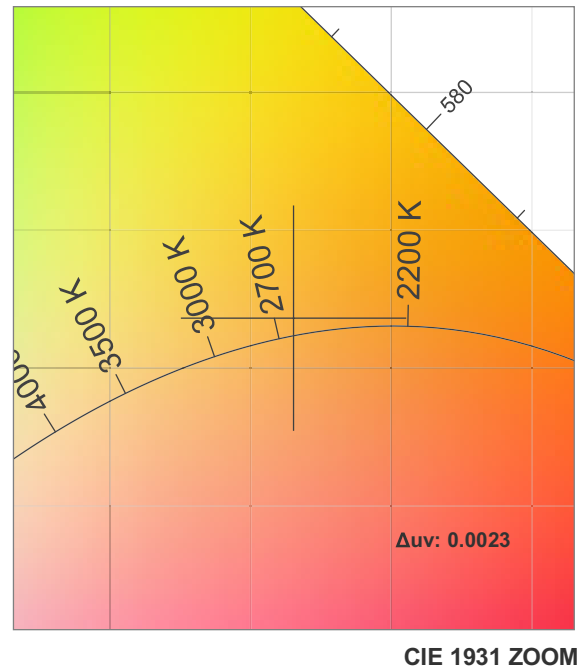
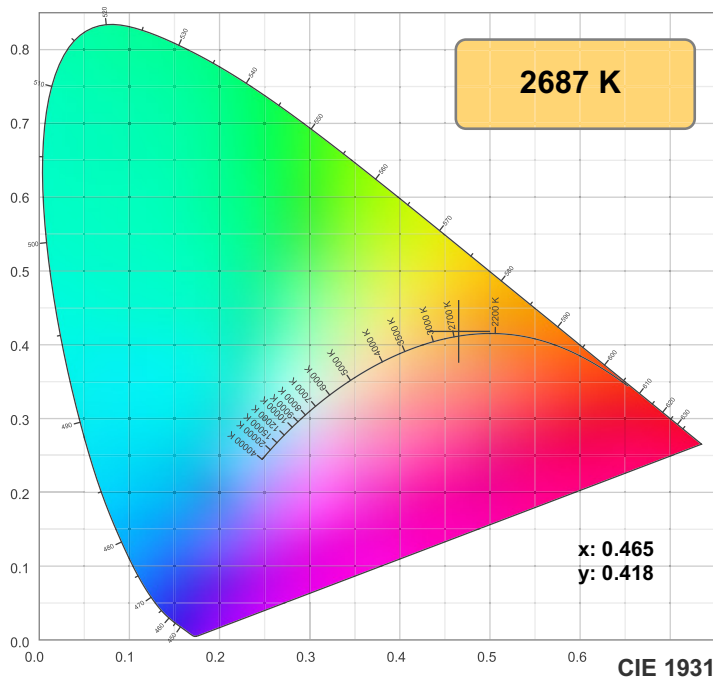


WIRING DIAGRAM

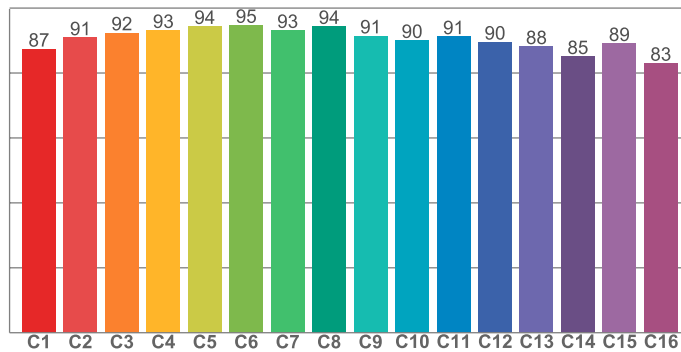


Note: Specifications are representative of the diode type and not a particular tape light article.

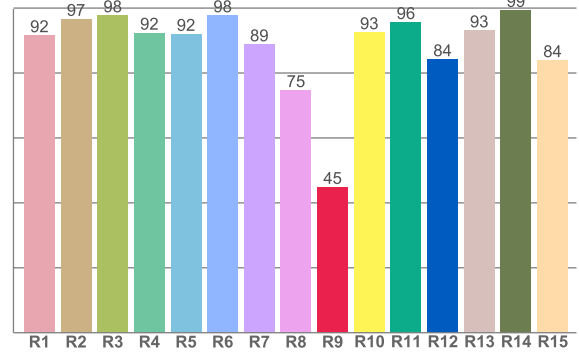
2700K



TM-30: 90.5



CRI: 91.4 (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
91.6	96.6	97.7	92.4	92.0	97.7	88.8	74.7	44.9	92.5	95.6	84.2	93.1	99.4	83.9

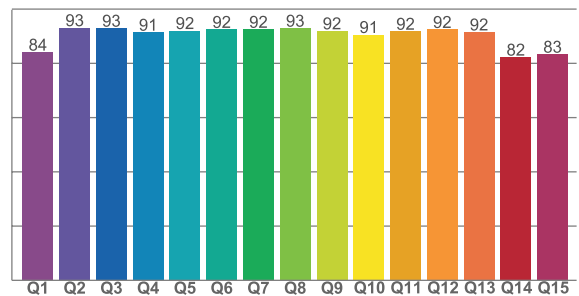
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87.4	90.9	92.4	93.1	94.4	94.7	93.1	94.4	91.5	90.1	91.2	89.6	88.2	85.1	89.1	83.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.1	93.1	92.9	91.4	92.0	92.4	92.5	92.9	91.9	90.6	91.8	92.4	91.5	82.2	83.3

CQS: 89.5



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
2687 K	91.4	44.9	90.5	95.7	89.5	0.465	0.418	0.263	0.354	0.0023

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

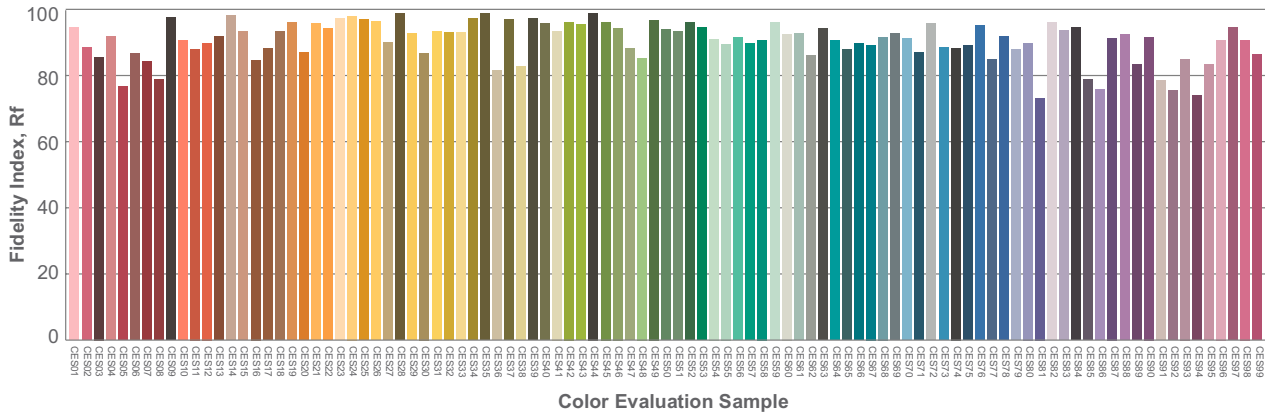
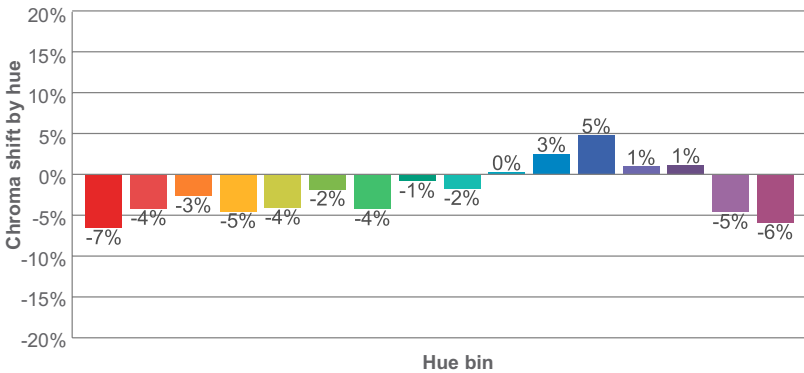
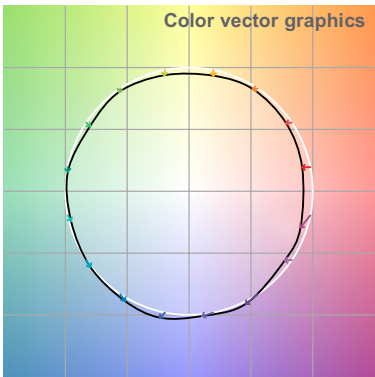
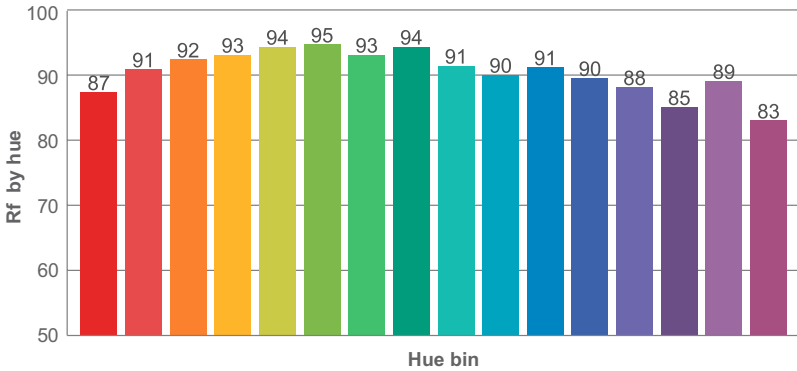
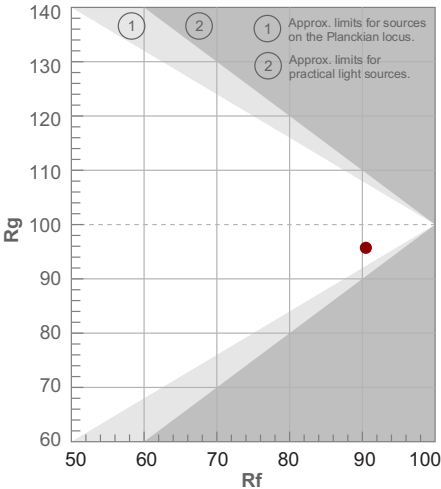
Rf 90.5

Fidelity index Rf

Rg 95.7

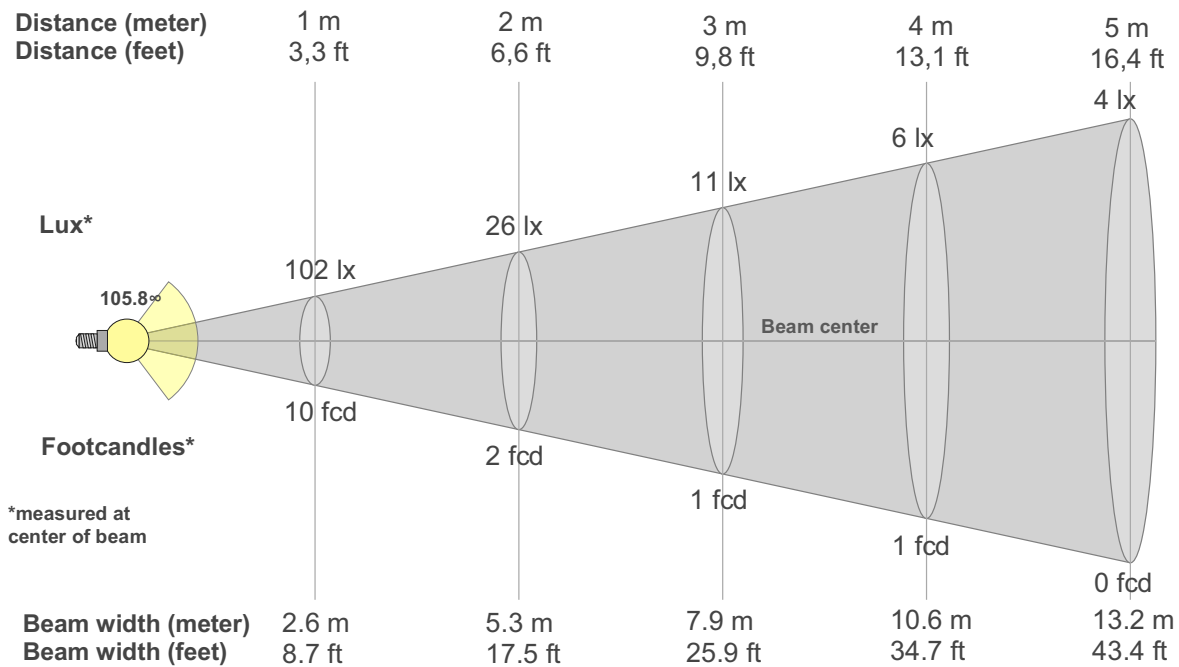
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	87	-7%	1%
2	91	-4%	2%
3	92	-3%	3%
4	93	-5%	-1%
5	94	-4%	1%
6	95	-2%	2%
7	93	-4%	1%
8	94	-1%	4%
9	91	-2%	5%
10	90	0%	6%
11	91	3%	6%
12	90	5%	-3%
13	88	1%	-9%
14	85	1%	-12%
15	89	-5%	-3%
16	83	-6%	-11%



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
102lx	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°
102	101	98	92	83	71	57	44	35	29	24	18	6	1	1	0	0	1	0	1
100%	99%	96%	90%	81%	69%	55%	43%	34%	28%	23%	18%	6%	1%	1%	0%	0%	1%	0%	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°
102	101	96	88	76	59	40	26	17	9	1	0	0	0	0	0	0	0	0	1
100%	99%	94%	86%	74%	57%	39%	26%	17%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%

Intensities in 180°c-plane

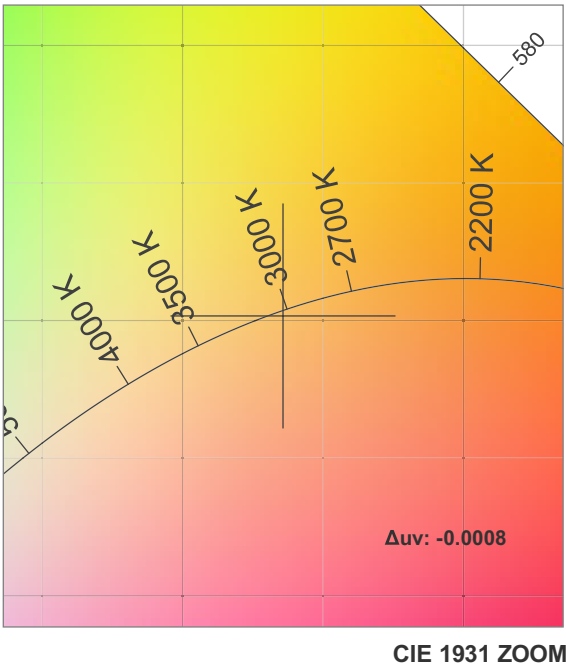
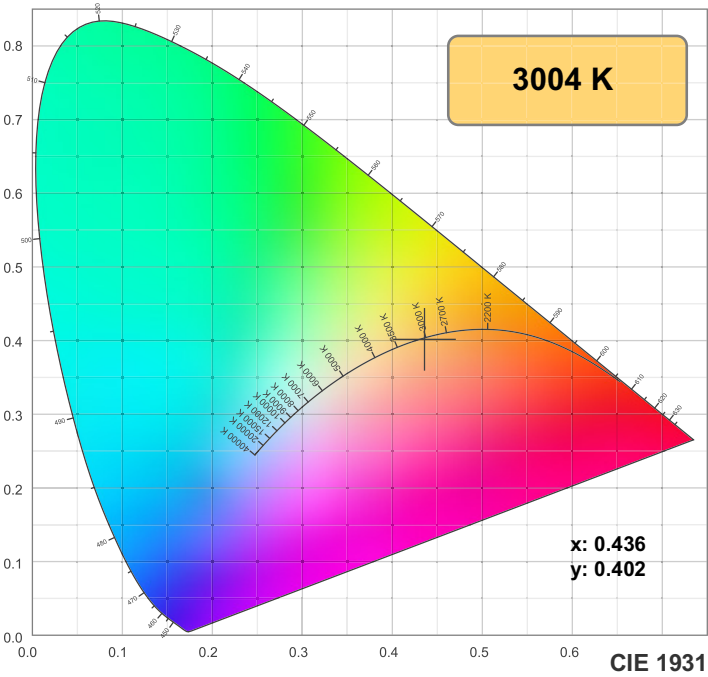
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
102	101	98	92	83	71	57	44	35	29	24	18	6	1	1	0	0	1	0	1
100%	99%	96%	90%	81%	69%	55%	43%	34%	28%	23%	18%	6%	1%	1%	0%	0%	1%	0%	1%

Intensities in 270°c-plane

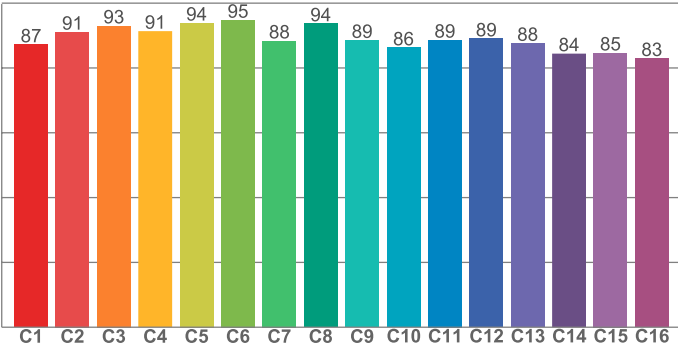
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
102	101	96	88	76	59	40	26	17	9	1	0	0	0	0	0	0	0	0	1
100%	99%	94%	86%	74%	57%	39%	26%	17%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120°cone	Intensity ratio in 90°cone
105.8°	187.9°	204.1°	70.5%	49.5%

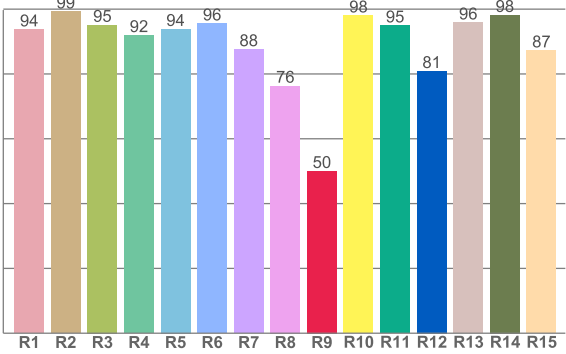
Note: Specifications are representative of the diode type and not a particular tape light article.



TM-30: 89.3



CRI: 91.7 (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
93.7	99.2	95.1	91.9	93.8	95.5	87.6	76.3	50.0	98.0	94.9	80.8	95.8	98.1	87.2

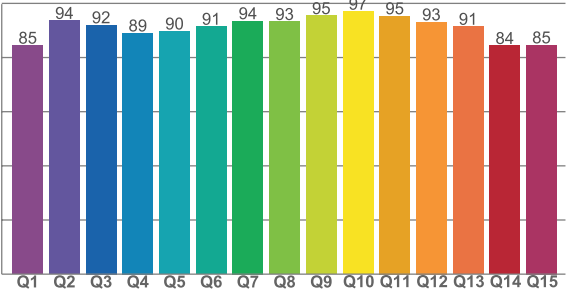
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87.2	91.1	93.0	91.4	93.9	94.8	88.4	93.7	88.5	86.2	88.6	89.0	87.6	84.4	84.7	82.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.5	93.6	92.0	89.0	89.7	91.5	93.5	93.2	95.4	97.1	95.4	93.1	91.5	84.4	84.6

CQS: 90.2



Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3004 K	91.7	50.0	89.3	96.2	90.2	0.436	0.402	0.251	0.347	-0.0008

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

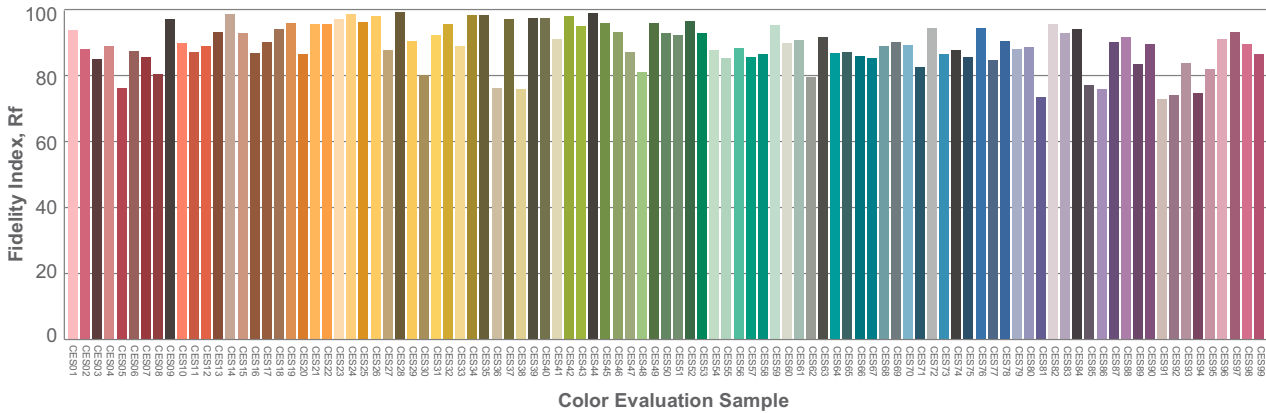
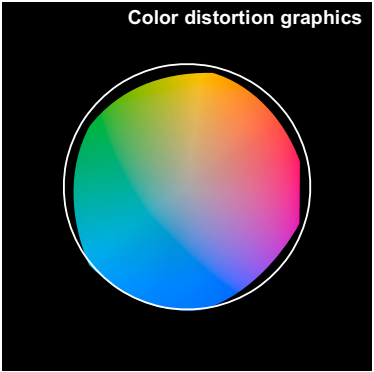
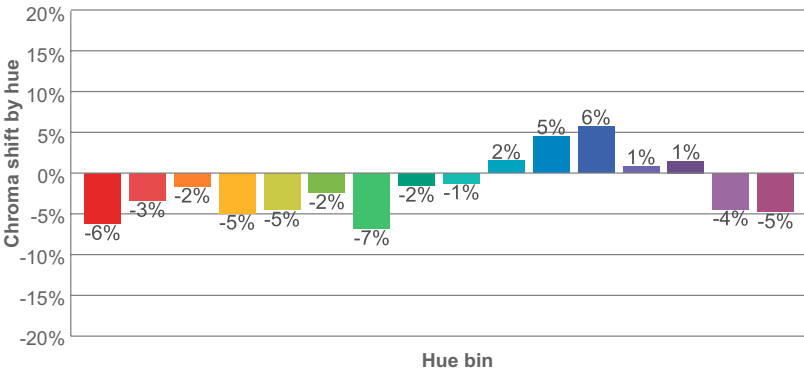
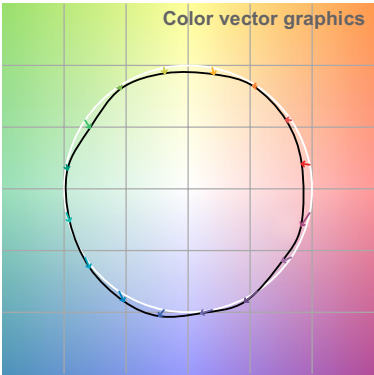
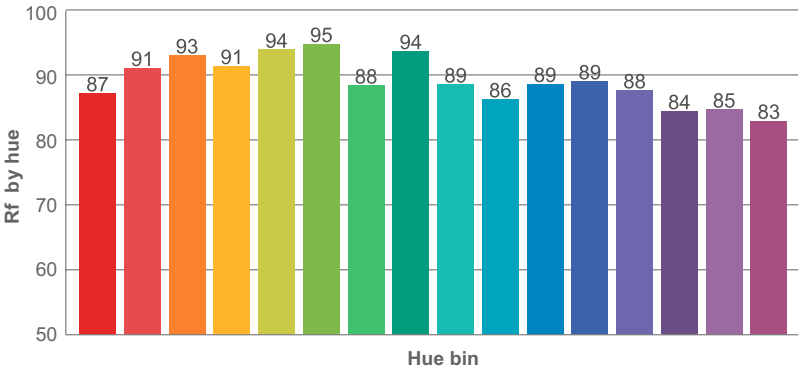
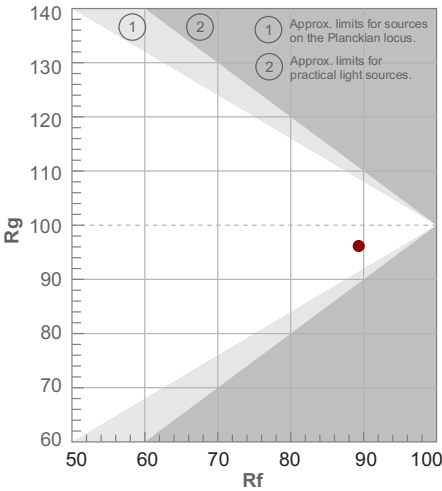
Rf 89.3

Fidelity index Rf

Rg 96.2

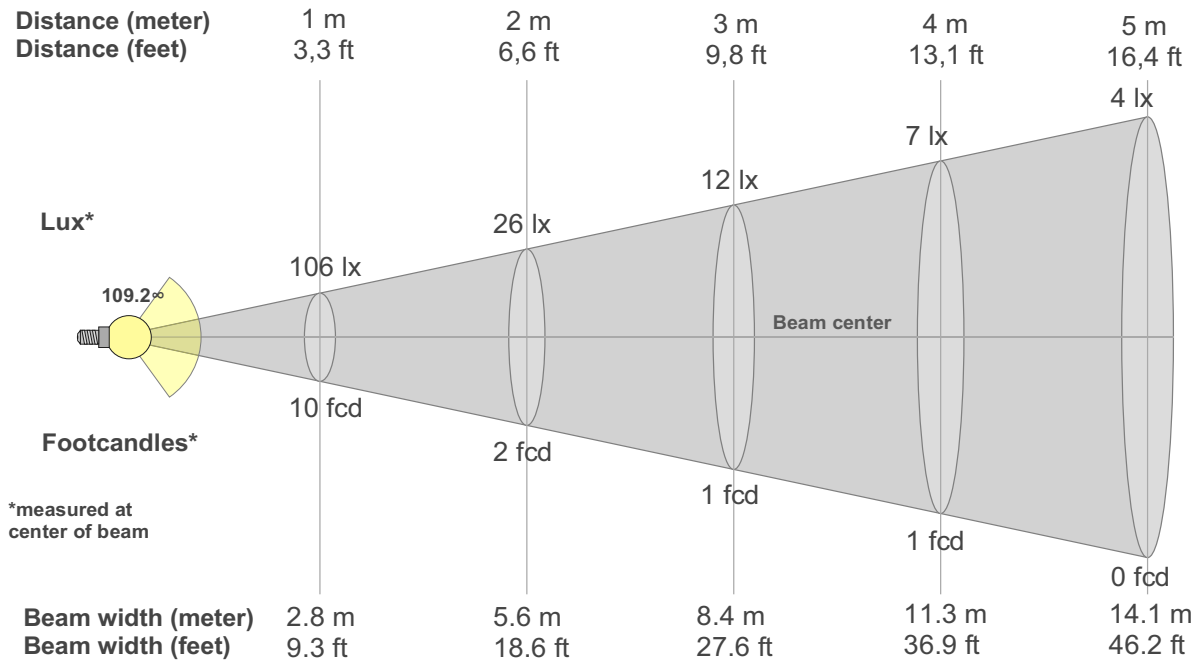
Gamut index Rg

Hue Bin	Rr	Shifts (%)	
		Chroma	Hue
1	87	-6%	2%
2	91	-3%	3%
3	93	-2%	3%
4	91	-5%	-2%
5	94	-5%	0%
6	95	-2%	0%
7	88	-7%	3%
8	94	-2%	4%
9	89	-1%	7%
10	86	2%	9%
11	89	5%	7%
12	89	6%	-3%
13	88	1%	-10%
14	84	1%	-13%
15	85	-4%	-7%
16	83	-5%	-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
106lx	26lx	12lx	7lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9.8fcd	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	105	102	96	88	76	62	50	40	34	29	22	6	1	1	1	1	1	1	1
100%	99%	96%	91%	83%	72%	59%	47%	38%	32%	27%	21%	6%	1%	1%	0%	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	92	79	62	43	29	18	9	1	1	1	1	0	0	1	1	1	1
100%	99%	94%	87%	75%	59%	40%	27%	17%	9%	1%	1%	1%	0%	0%	0%	0%	1%	1%	1%

Intensities in 180°c-plane

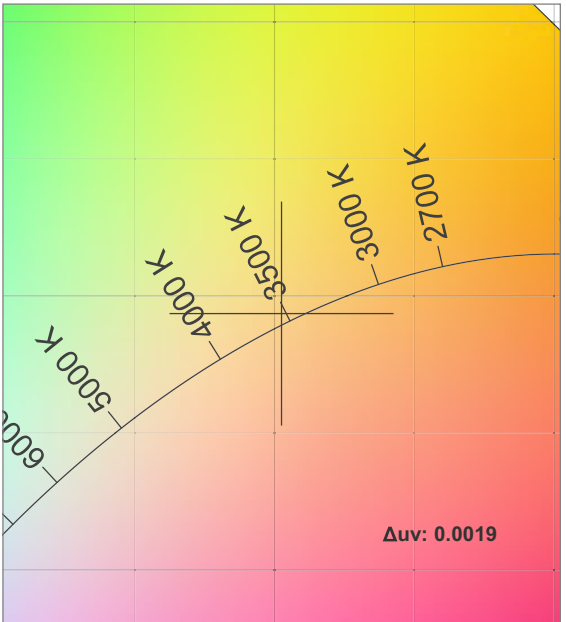
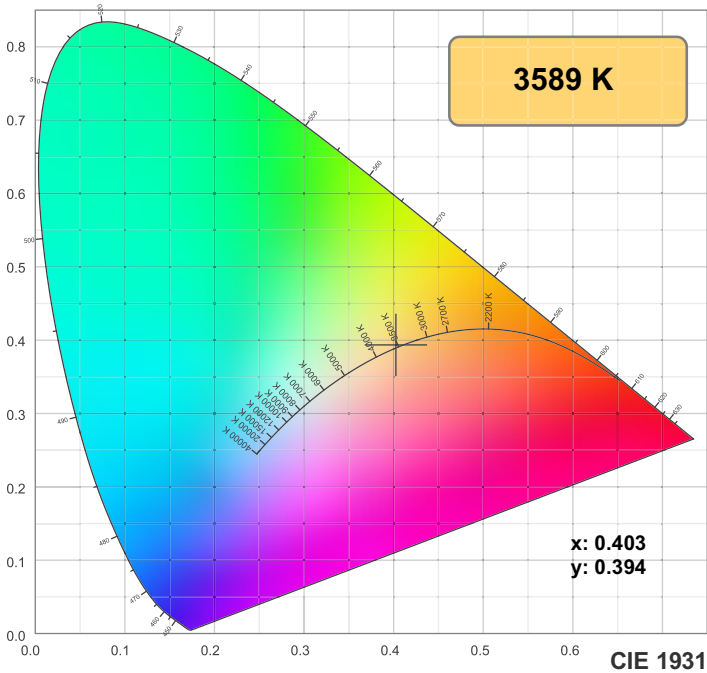
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
106	105	102	96	88	76	62	50	40	34	29	22	6	1	1	1	1	1	1	1
100%	99%	96%	91%	83%	72%	59%	47%	38%	32%	27%	21%	6%	1%	1%	0%	1%	1%	1%	1%

Intensities in 270°c-plane

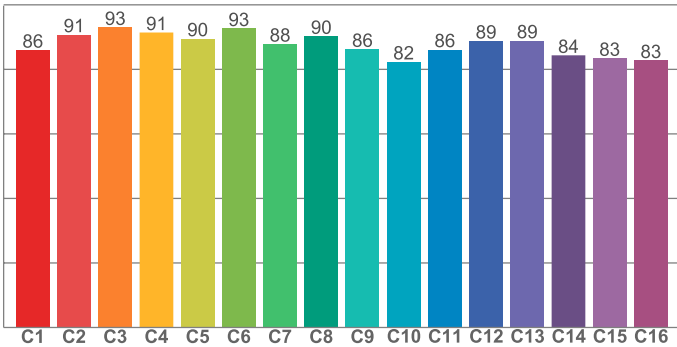
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
106	104	100	92	79	62	43	29	18	9	1	1	1	1	0	0	1	1	1	1
100%	99%	94%	87%	75%	59%	40%	27%	17%	9%	1%	1%	1%	0%	0%	0%	0%	1%	1%	1%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120°cone	Intensity ratio in 90°cone
109.2°	190.3°	204°	68.8%	47.7%

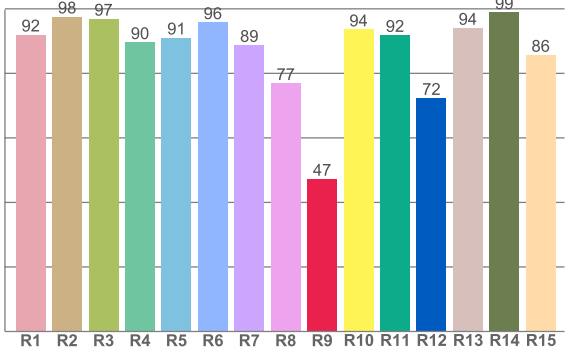
Note: Specifications are representative of the diode type and not a particular tape light article.



TM-30: 87.8



CRI: 91.1 (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
92.0	97.6	96.9	89.6	91.1	95.8	88.8	76.9	47.3	93.6	91.9	72.3	94.1	98.9	85.7

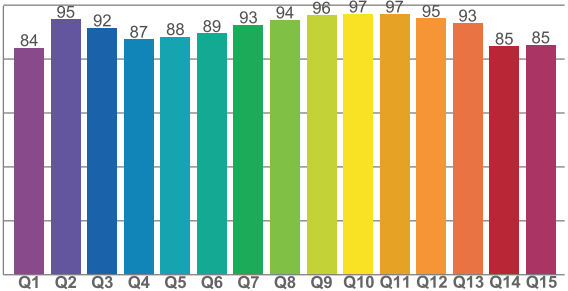
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
86.0	90.8	93.0	91.4	89.5	92.7	87.8	90.3	86.2	82.3	86.1	88.8	88.9	84.4	83.4	82.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.2	94.7	91.5	87.3	88.3	89.4	92.7	94.5	96.2	96.7	96.6	95.0	93.3	84.8	85.2

CQS: 90.3



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3589 K	91.1	47.3	87.8	94.5	90.3	0.403	0.394	0.233	0.341	0.0019

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

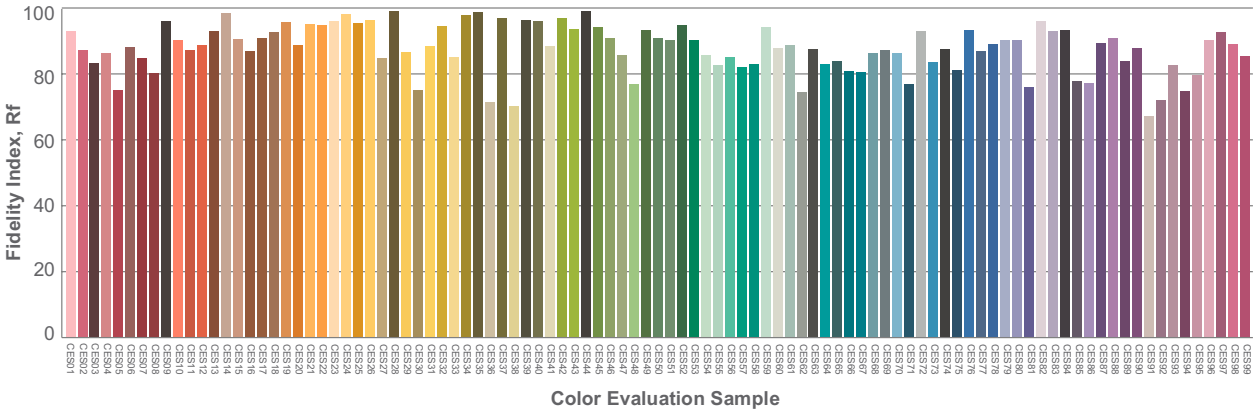
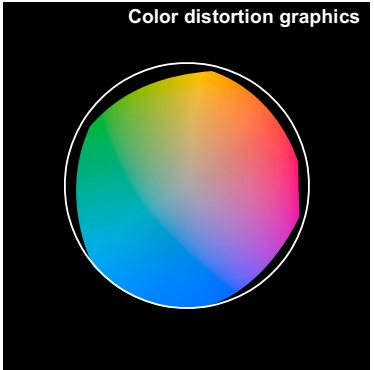
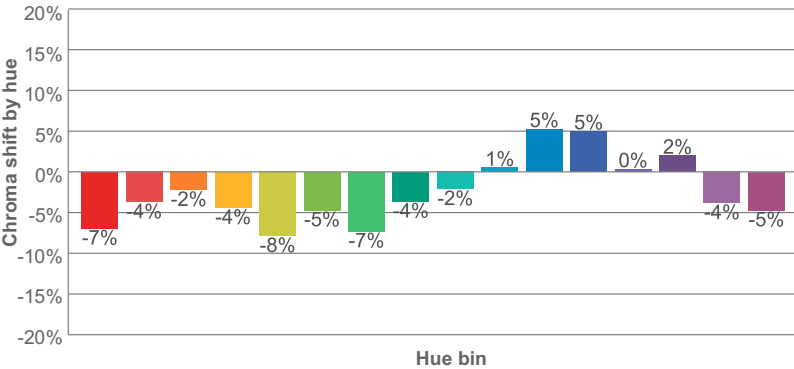
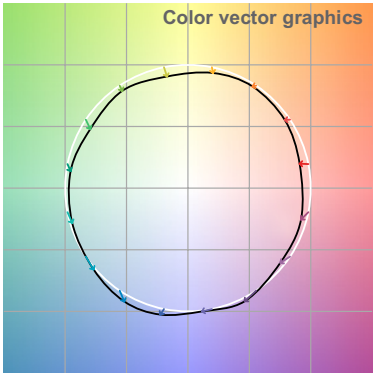
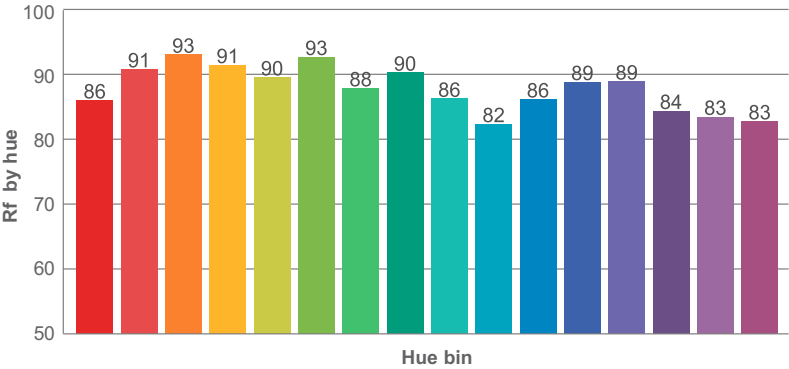
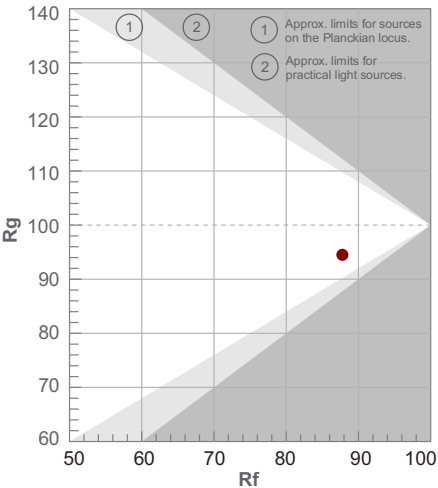
Rf 87.8

Fidelity index Rf

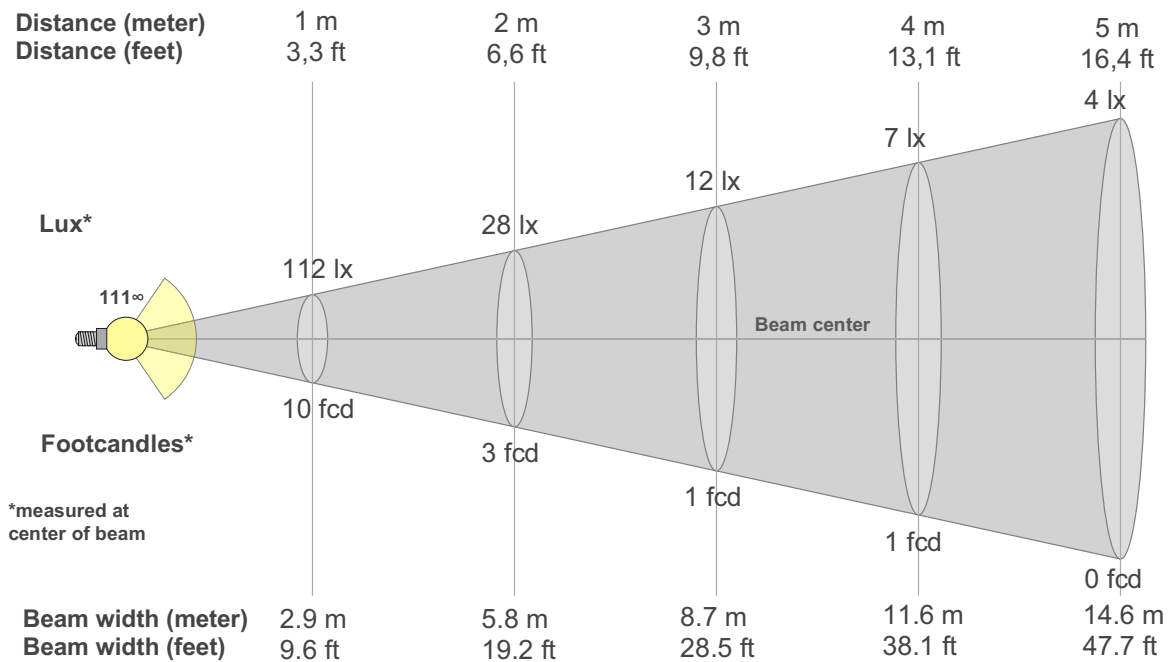
Rg 94.5

Gamut index Rg

Hue Bin	Shifts (%)		
	R _f	Chroma	Hue
1	86	-7%	2%
2	91	-4%	2%
3	93	-2%	2%
4	91	-4%	-2%
5	90	-8%	-1%
6	93	-5%	1%
7	88	-7%	4%
8	90	-4%	5%
9	86	-2%	9%
10	82	1%	12%
11	86	5%	8%
12	89	5%	-2%
13	89	0%	-8%
14	84	2%	-13%
15	83	-4%	-8%
16	83	-5%	-7%



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
112lx	28lx	12lx	7lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
10.4fcd	2.6fcd	1.2fcd	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°
112	111	108	103	95	83	69	55	45	37	31	24	7	2	1	1	1	1	1	1
100%	99%	97%	92%	85%	74%	61%	49%	40%	33%	28%	21%	6%	2%	1%	1%	0%	0%	0%	0%

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°
112	110	105	97	84	66	45	31	20	10	2	1	0	0	0	0	0	1	1	1
100%	99%	94%	87%	75%	59%	41%	27%	18%	9%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 180°c-plane

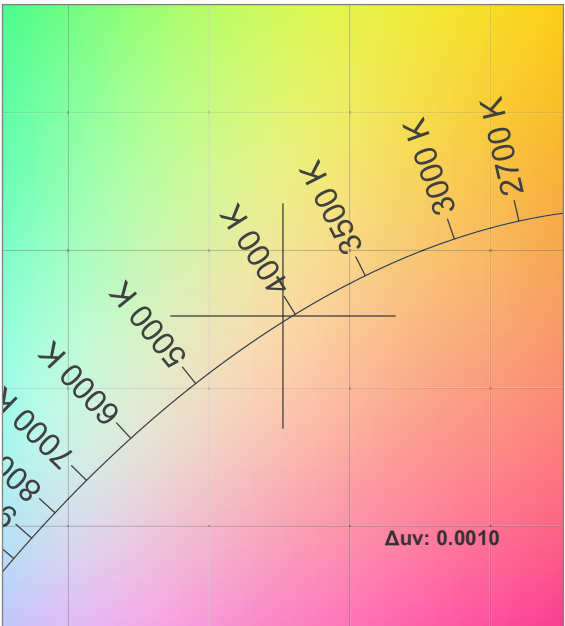
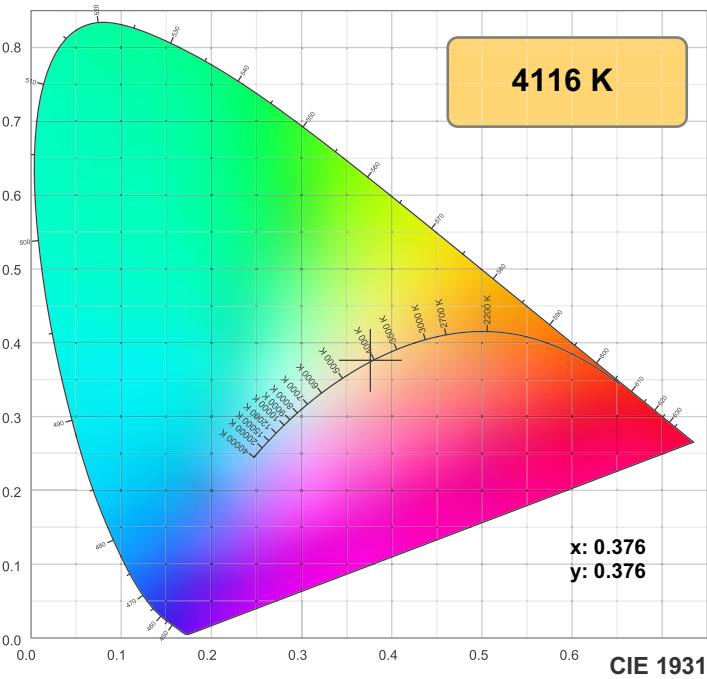
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
112	111	108	103	95	83	69	55	45	37	31	24	7	2	1	1	1	1	1	1
100%	99%	97%	92%	85%	74%	61%	49%	40%	33%	28%	21%	6%	2%	1%	1%	0%	0%	0%	0%

Intensities in 270°c-plane

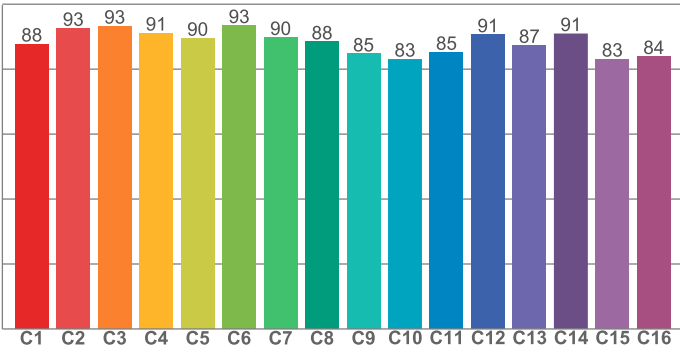
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
112	110	105	97	84	66	45	31	20	10	2	1	0	0	0	0	0	1	1	1
100%	99%	94%	87%	75%	59%	41%	27%	18%	9%	2%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120°cone	Intensity ratio in 90°cone
111°	191.1°	205.9°	68.2%	47.1%

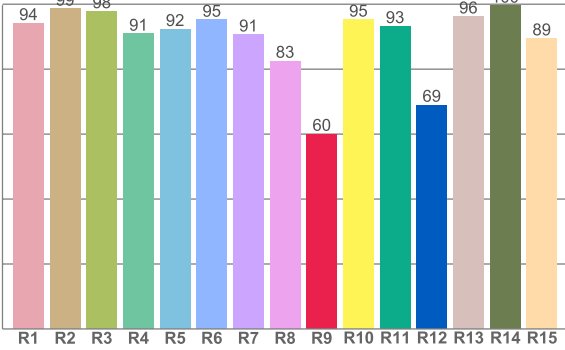
Note: Specifications are representative of the diode type and not a particular tape light article.



TM-30: 88.3



CRI: 92.7 (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
94.1	98.6	97.8	90.9	92.3	95.2	90.6	82.5	60.0	95.2	93.2	69.0	96.2	99.5	89.4

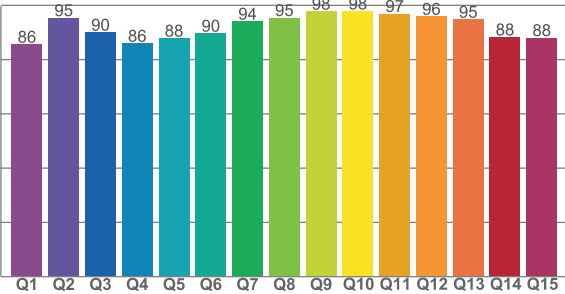
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87.8	92.6	93.3	91.1	89.5	93.4	89.8	88.4	84.7	83.1	85.2	90.6	87.3	91.0	83.1	83.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.6	95.4	90.0	86.0	87.9	89.7	94.1	95.4	97.8	97.9	96.9	95.9	94.8	88.3	88.0

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 divition from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
4116 K	92.7	60.0	88.3	95.5	91.1	0.376	0.376	0.223	0.334	0.0010

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

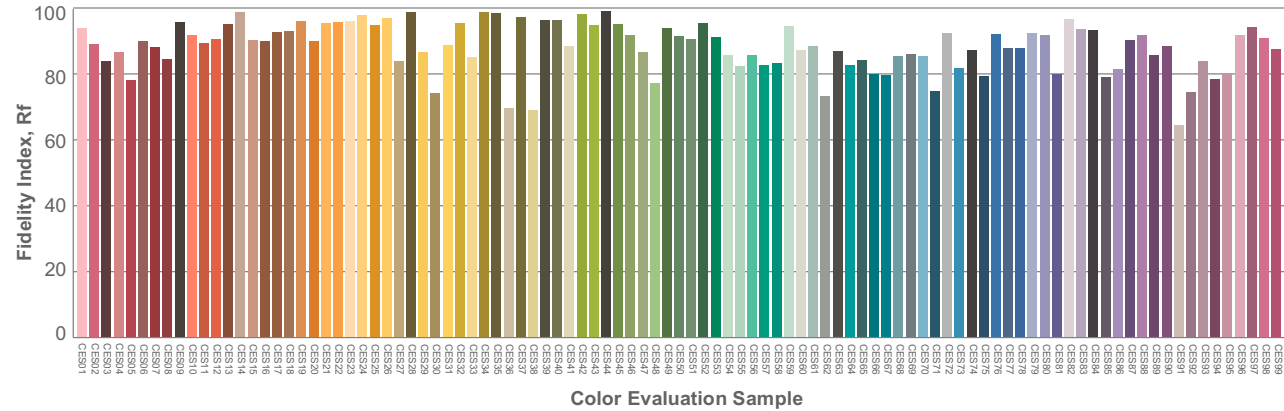
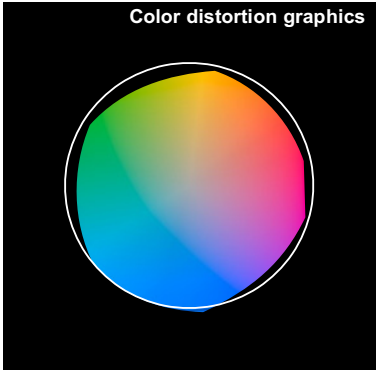
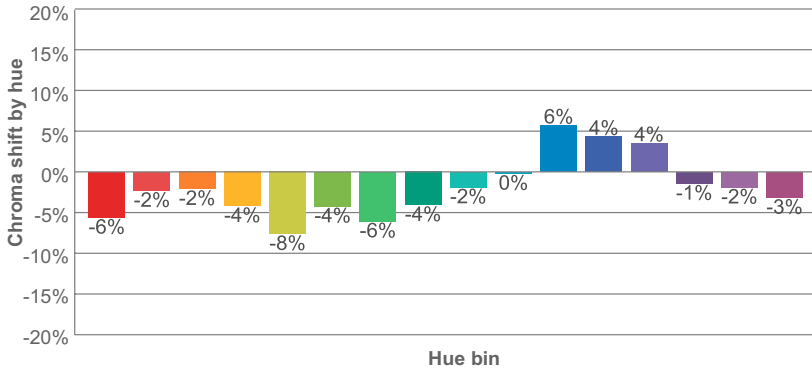
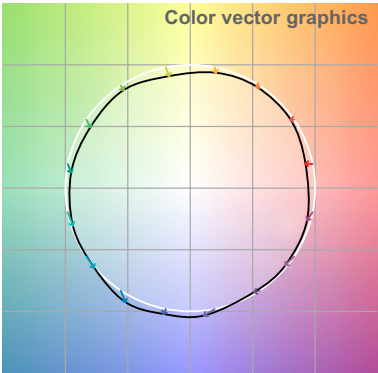
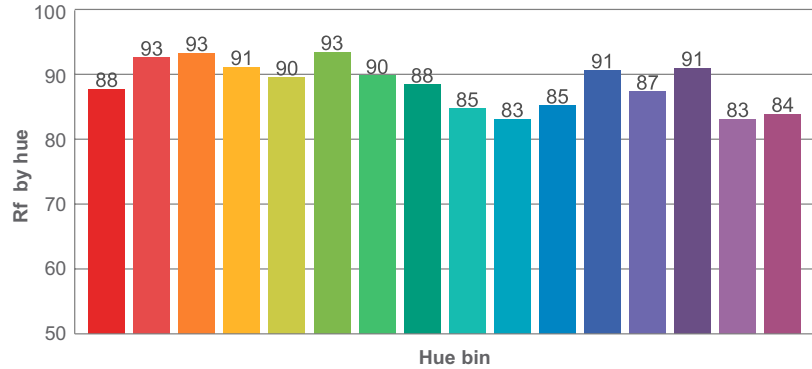
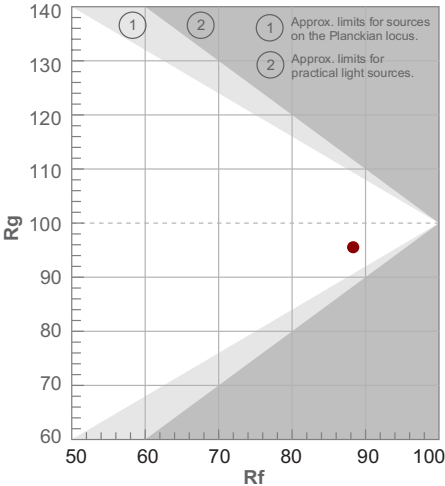
Rf 88.3

Fidelity index Rf

Rg 95.5

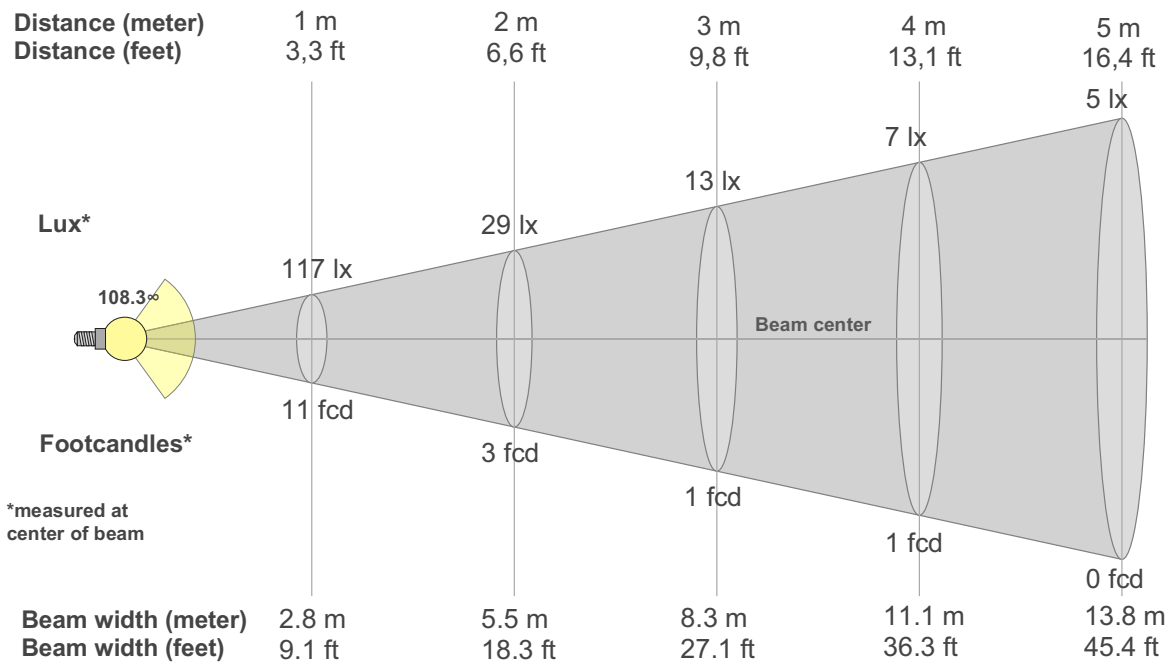
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	88	-6%	2%
2	93	-2%	2%
3	93	-2%	2%
4	91	-4%	-2%
5	90	-8%	-1%
6	93	-4%	0%
7	90	-6%	3%
8	88	-4%	6%
9	85	-2%	11%
10	83	0%	11%
11	85	6%	8%
12	91	4%	-1%
13	87	4%	-9%
14	91	-1%	-4%
15	83	-2%	-10%
16	84	-3%	-7%



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
117lx	29lx	13lx	7lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
10.9fcd	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	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°
117	116	112	107	97	83	67	52	42	34	28	22	7	2	1	1	1	1	1	1
100%	99%	96%	91%	83%	71%	57%	45%	36%	29%	24%	19%	6%	1%	1%	0%	0%	0%	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°
117	115	110	102	88	69	48	32	21	11	1	1	1	1	0	0	1	1	1	1
100%	99%	94%	87%	75%	59%	41%	28%	18%	9%	1%	0%	0%	0%	0%	0%	0%	0%	0%	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°
117	116	112	107	97	83	67	52	42	34	28	22	7	2	1	1	1	1	1	1
100%	99%	96%	91%	83%	71%	57%	45%	36%	29%	24%	19%	6%	1%	1%	0%	0%	0%	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°
117	115	110	102	88	69	48	32	21	11	1	1	1	1	0	0	1	1	1	1
100%	99%	94%	87%	75%	59%	41%	28%	18%	9%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120°cone	Intensity ratio in 90°cone
108.3°	188.7°	204.4°	69.9%	48.6%