

PHOTOMETRICS REPORT

STRIKE

SABER



CHAUVENT
PROFESSIONAL

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Testing Process

Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.

Photometric Report

Strike Saber: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 5512 lm
Peak Intensity: 24227 cd
Illuminance @ 5m: 955 lux
Fixture Efficacy: 43 lm/W

Optical

Horizontal Beam Angle (50%): 25.9°
Vertical Beam Angle (50%): 19.3°
Horizontal Field Angle (10%): 44.7°
Vertical Field Angle (10%): 43.7°
Horizontal Cutoff Angle (3%): 78.9°
Vertical Cutoff Angle (3%): 77.4°

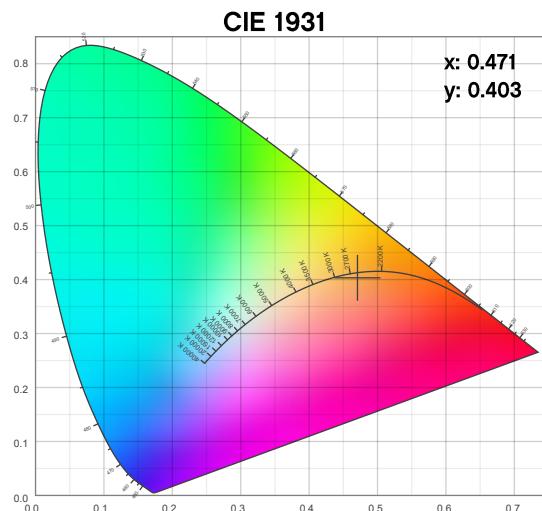
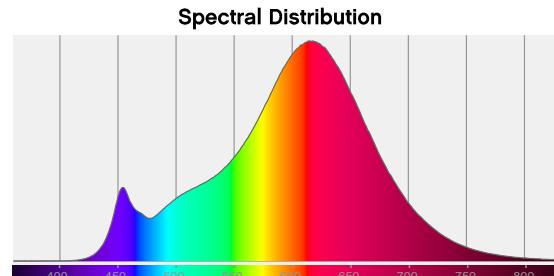
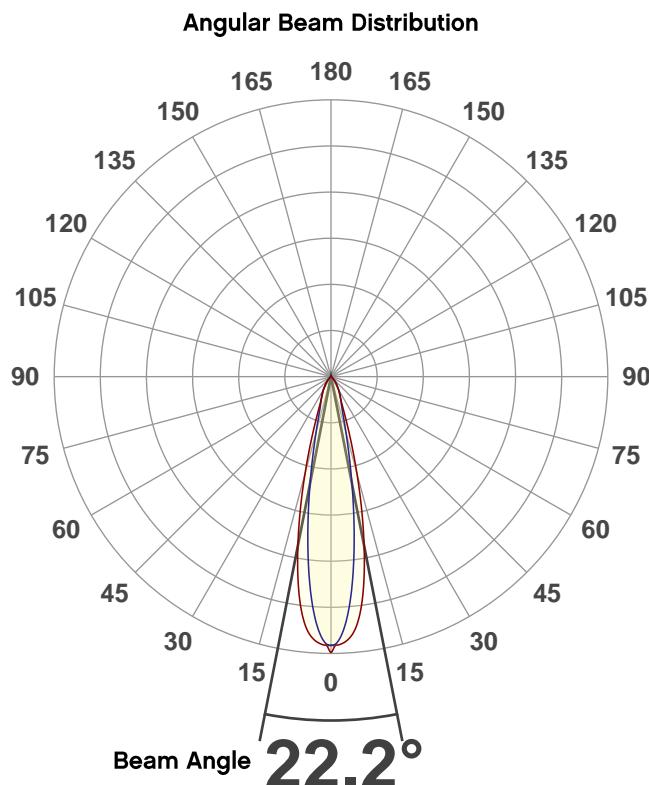


Conditions

AC Supply: 118 V, 0 Hz
Power: 129.34 W
Current: 1.08 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 9/20/2019 to LM-63-2002 Standards.

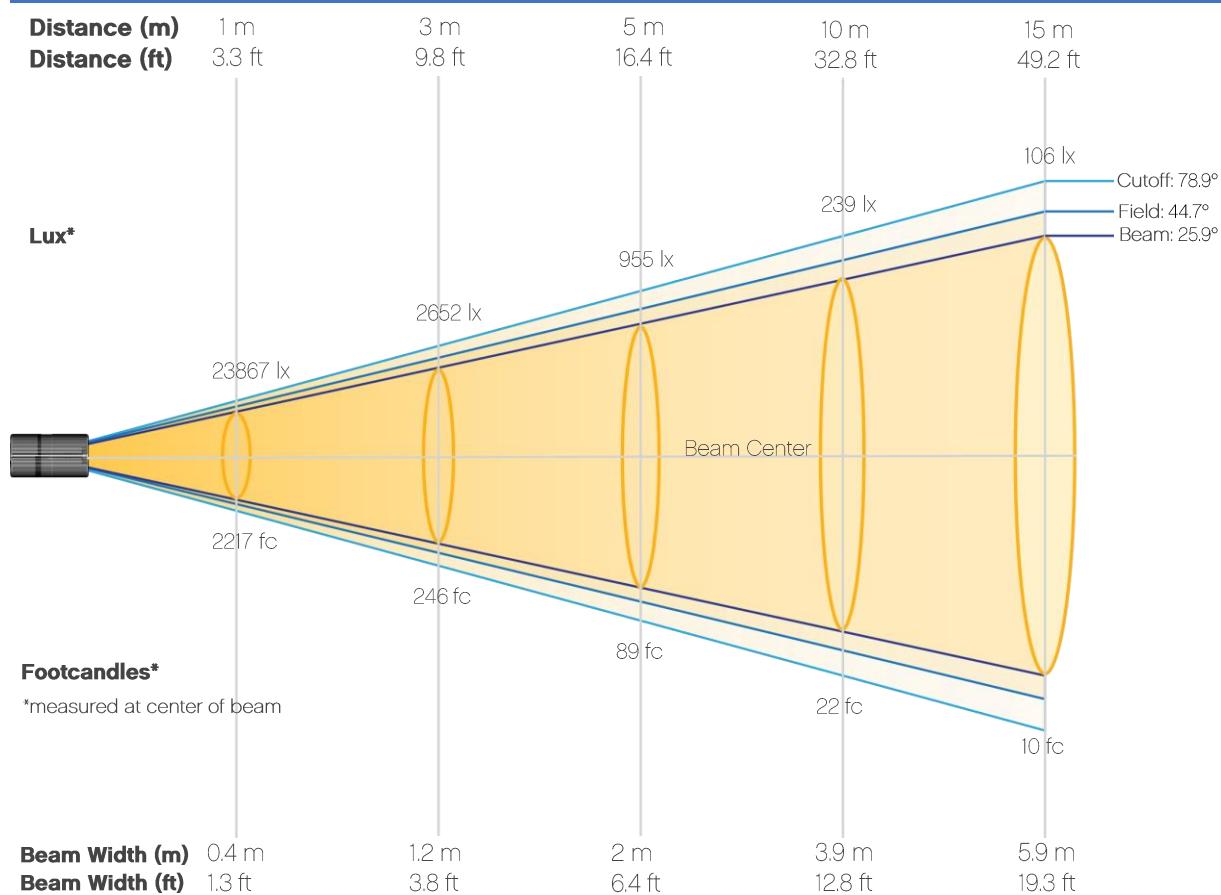
Overall Measurement



Photometric Report

Strike Saber: Standard Optics, Full Power

Beam Details

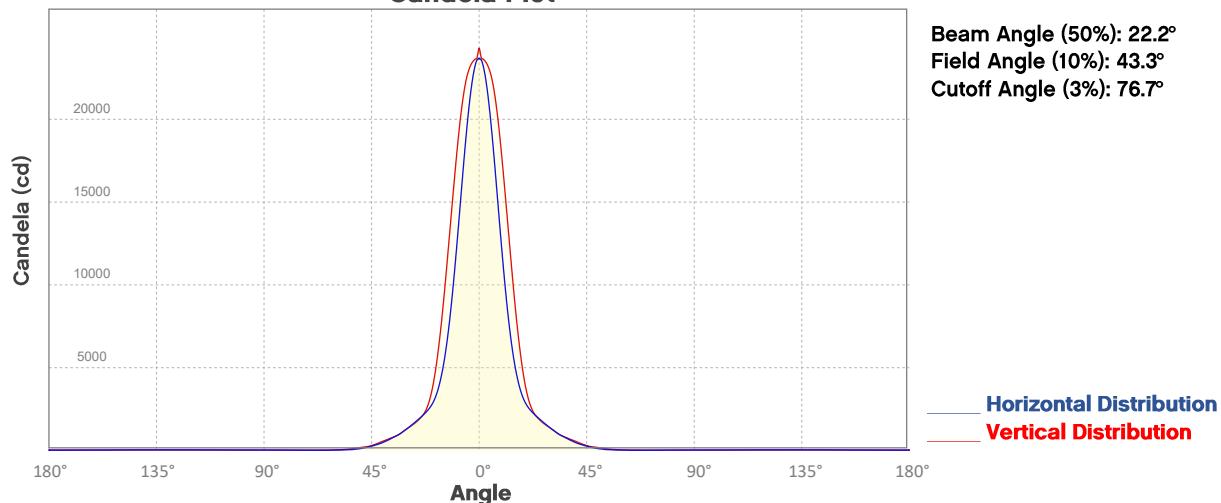


Beam Illuminances from 1-20m (3.3-65.6ft)

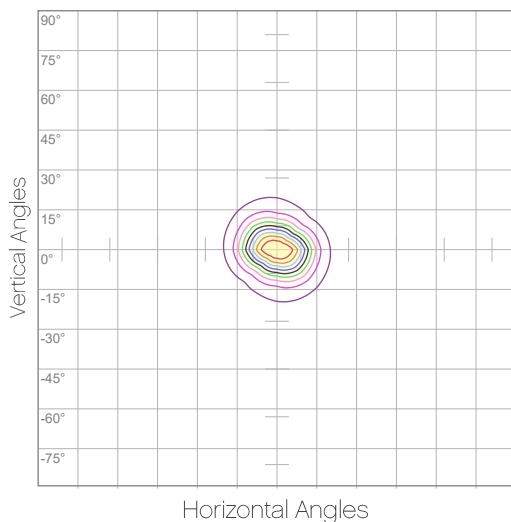
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	23867	5967	2652	1492	955	663	487	373	295	239
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	197	166	141	122	106	93	83	74	66	60
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	2217	554	246	139	89	62	45	35	27	22
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	18	15	13	11	10	9	8	7	6	6

Photometric Report

Strike Saber: Standard Optics, Full Power
Candela Plot



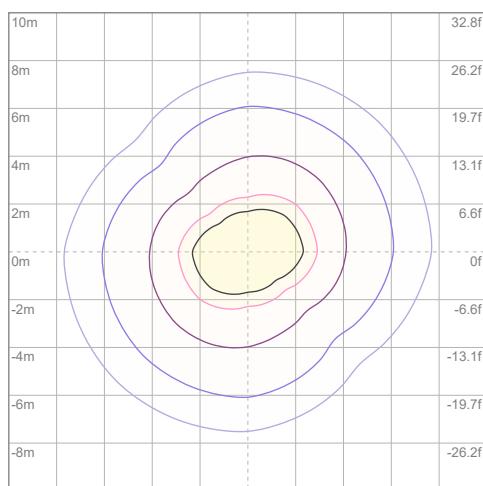
Polar Diagrams



iso-candela Diagram

10%	2387 cd
20%	4773 cd
30%	7160 cd
40%	9547 cd
50%	11934 cd
60%	14320 cd
70%	16707 cd
80%	19094 cd
90%	21481 cd

Conditions:
Number of c-planes: 8
Candela at center: 23867 cd



iso-illuminance Diagram

3%	7.16 lx
5%	11.9 lx
10%	23.9 lx
30%	71.6 lx
50%	119 lx

Conditions:
Number of c-planes: 8
Lux at center: 239 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

Photometric Report

Strike Saber: Standard Optics, Warm White Only

Report Summary

Output

Total Lumens: 3621 lm
Peak Intensity: 16119 cd
Illuminance @ 5m: 628 lux
Fixture Efficacy: 65 lm/W

Optical

Horizontal Beam Angle (50%): 26.2°
Vertical Beam Angle (50%): 19.4°
Horizontal Field Angle (10%): 45°
Vertical Field Angle (10%): 43.7°
Horizontal Cutoff Angle (3%): 79.2°
Vertical Cutoff Angle (3%): 76.5°

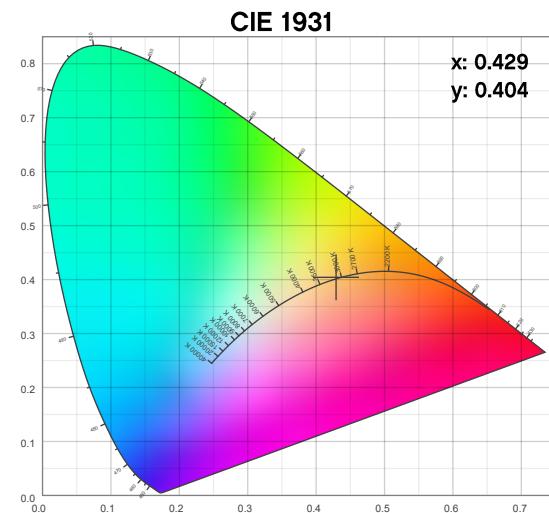
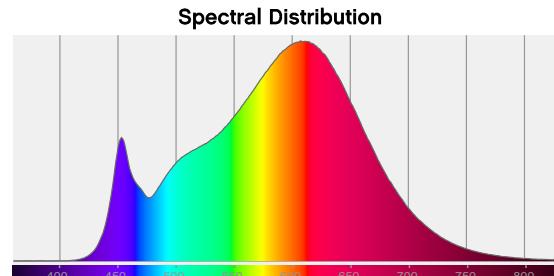
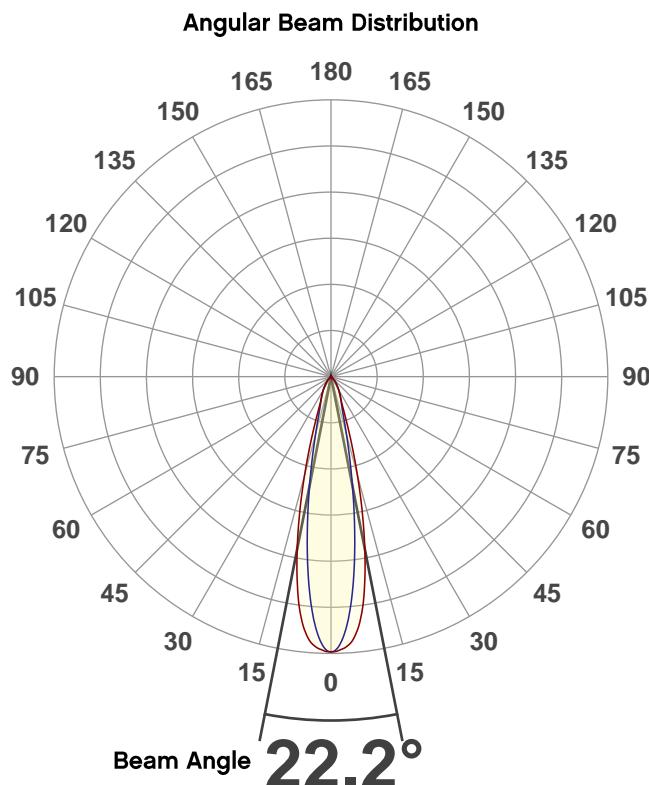


Conditions

AC Supply: 119 V, 0 Hz
Power: 56.57 W
Current: 0.472 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 9/20/2019 to LM-63-2002 Standards.

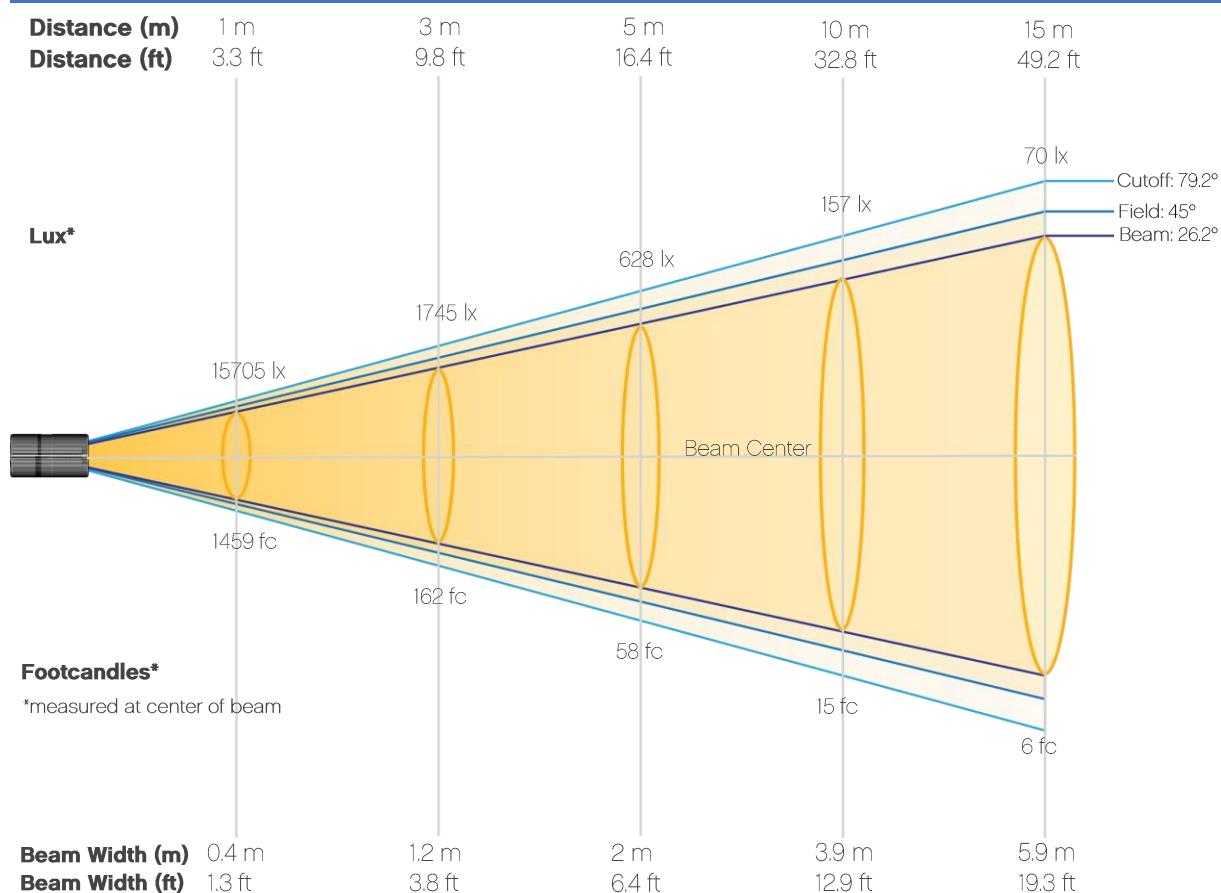
Overall Measurement



Photometric Report

Strike Saber: Standard Optics, Warm White Only

Beam Details



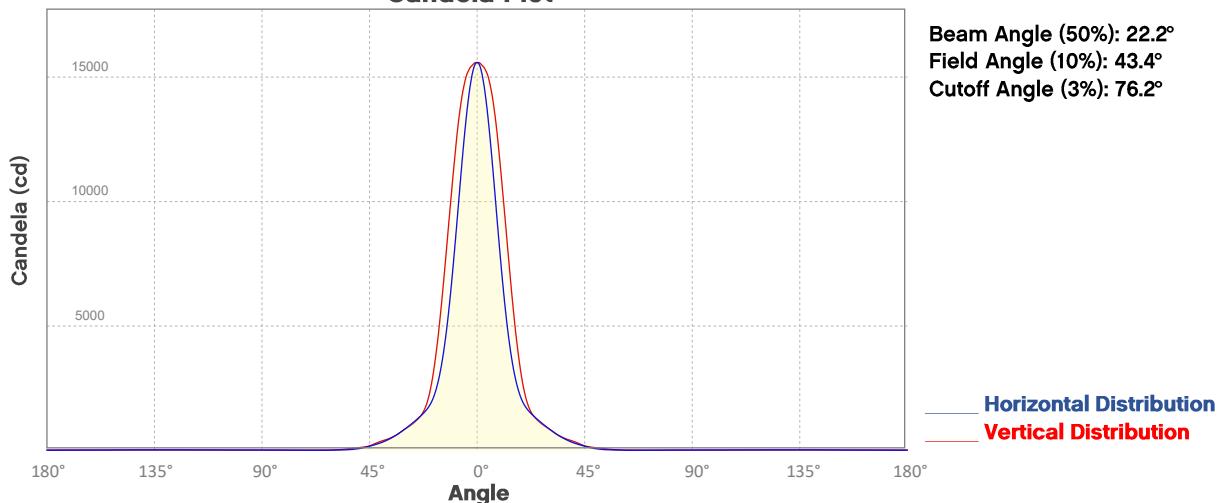
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15705	3926	1745	982	628	436	321	245	194	157
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	130	109	93	80	70	61	54	48	44	39
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1459	365	162	91	58	41	30	23	18	15
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	12	10	9	7	6	6	5	5	4	4

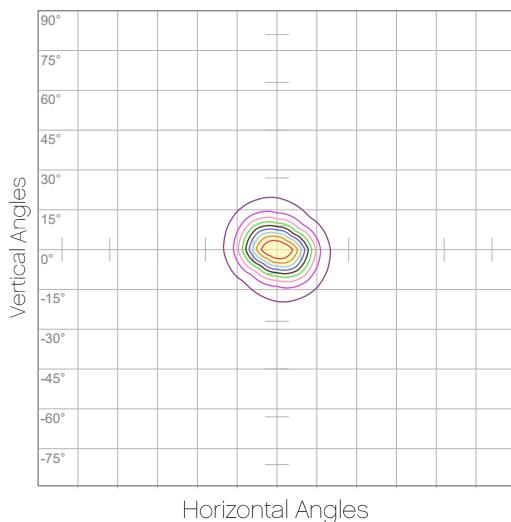
Photometric Report

Strike Saber: Standard Optics, Warm White Only

Candela Plot



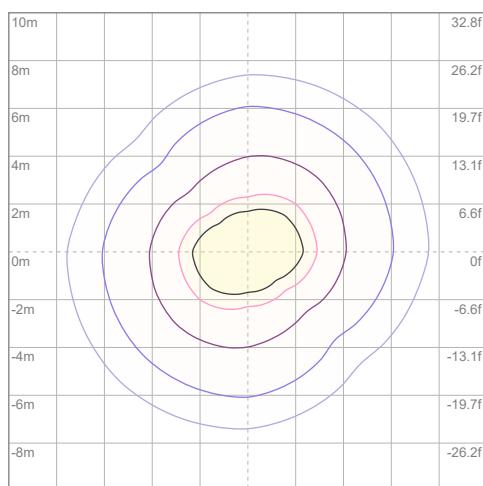
Polar Diagrams



iso-candela Diagram

10%	1570 cd
20%	3141 cd
30%	4711 cd
40%	6282 cd
50%	7852 cd
60%	9423 cd
70%	10993 cd
80%	12564 cd
90%	14134 cd

Conditions:
Number of c-planes: 8
Candela at center: 15705 cd



iso-illuminance Diagram

3%	4.71 lx
5%	7.85 lx
10%	15.7 lx
30%	47.1 lx
50%	78.5 lx

Conditions:
Number of c-planes: 8
Lux at center: 157 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

Photometric Report

Strike Saber: Standard Optics, Amber Only

Report Summary

Output

Total Lumens: 2252 lm
Peak Intensity: 10103 cd
Illuminance @ 5m: 396 lux
Fixture Efficacy: 39 lm/W

Optical

Horizontal Beam Angle (50%): 25.7°
Vertical Beam Angle (50%): 19.3°
Horizontal Field Angle (10%): 44.5°
Vertical Field Angle (10%): 43.6°
Horizontal Cutoff Angle (3%): 78.7°
Vertical Cutoff Angle (3%): 76.6°

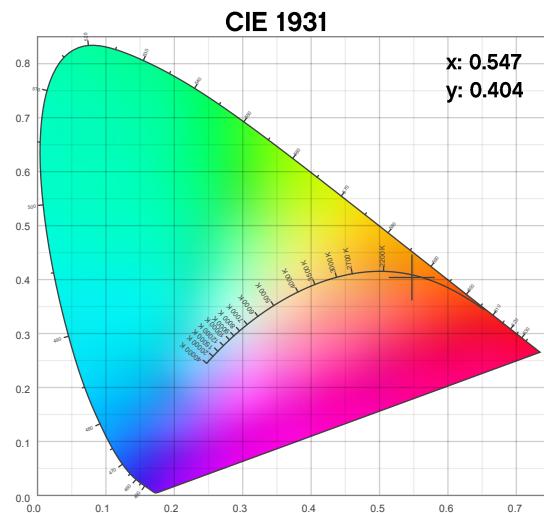
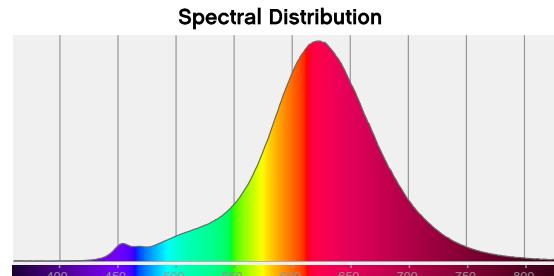
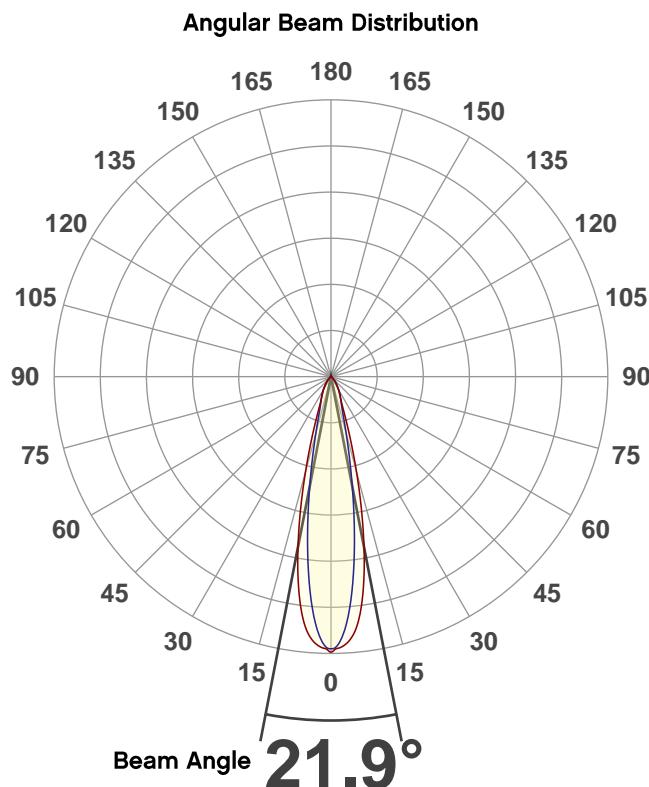


Conditions

AC Supply: 118 V, 0 Hz
Power: 59.14 W
Current: 0.490 A
Power Factor: 0.98

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 9/20/2019 to LM-63-2002 Standards.

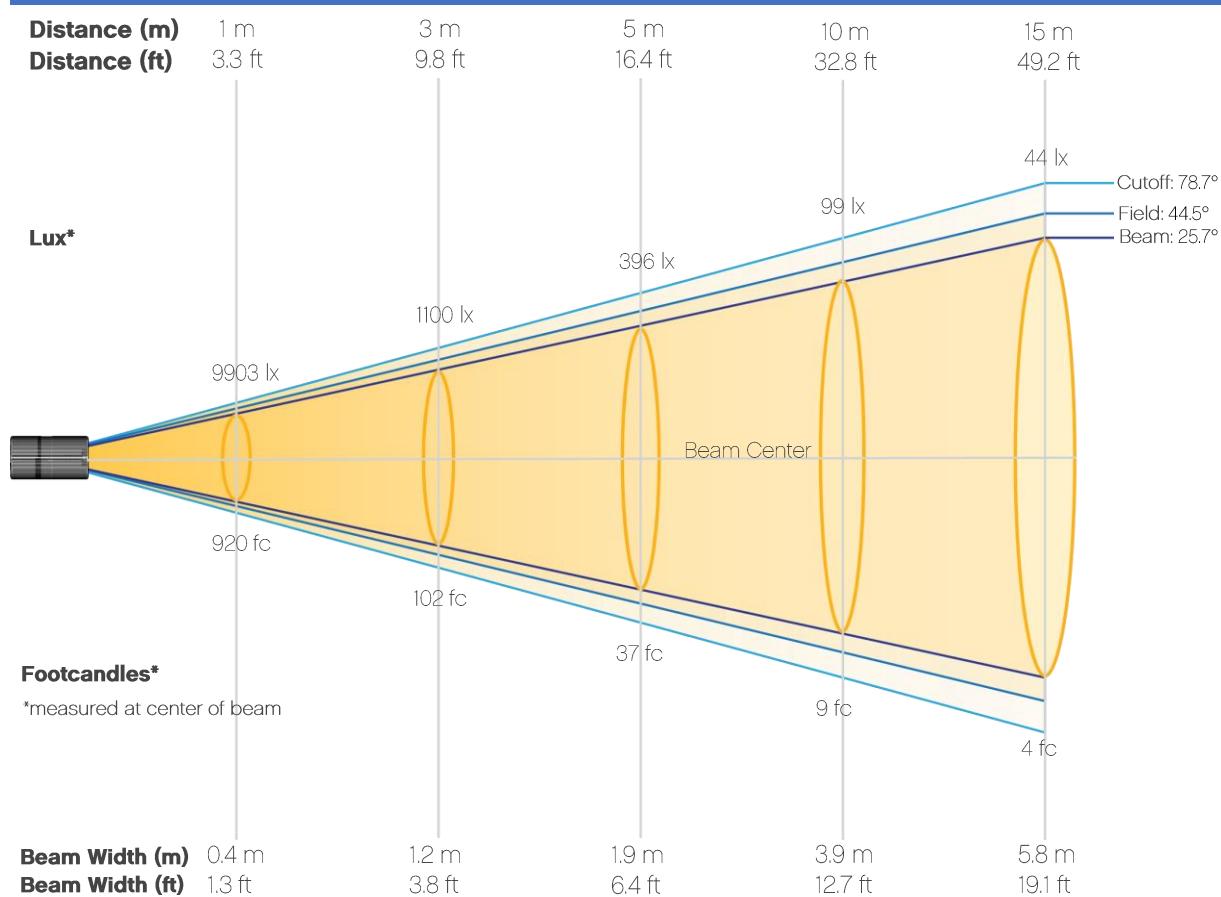
Overall Measurement



Photometric Report

Strike Saber: Standard Optics, Amber Only

Beam Details



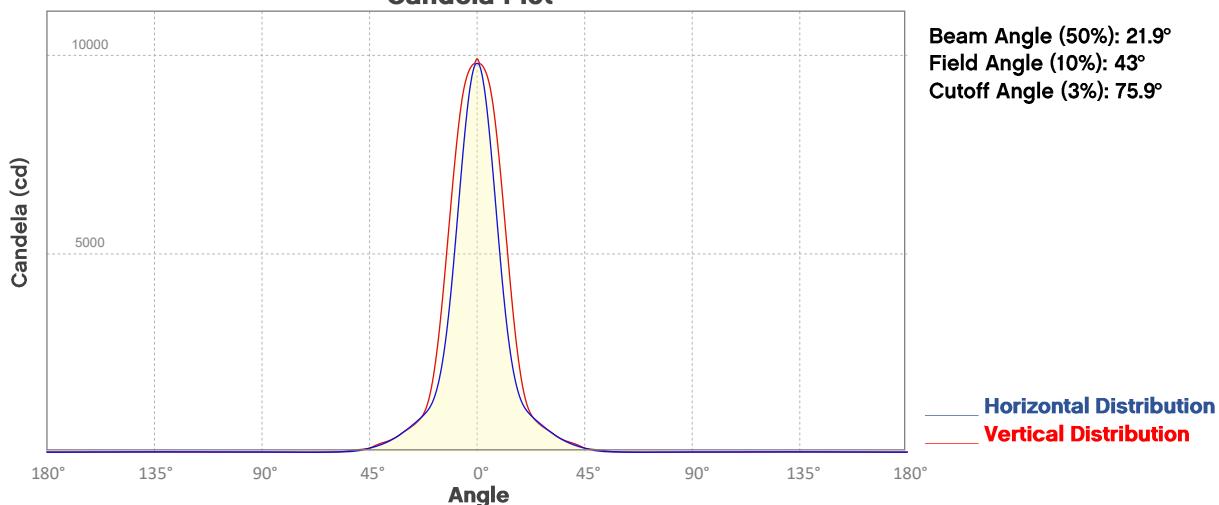
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	9903	2476	1100	619	396	275	202	155	122	99
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	82	69	59	51	44	39	34	31	27	25
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	920	230	102	58	37	26	19	14	11	9
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	8	6	5	5	4	4	3	3	3	2

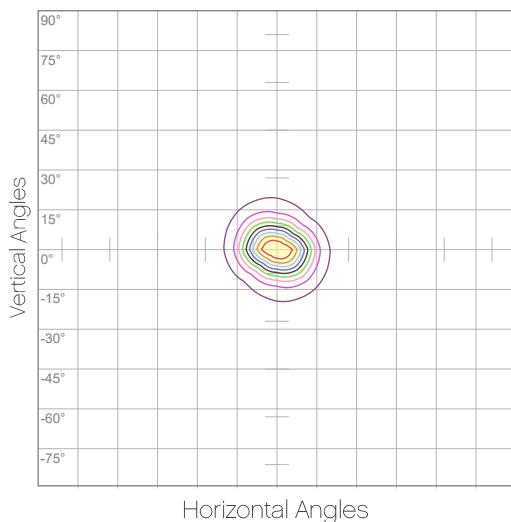
Photometric Report

Strike Saber: Standard Optics, Amber Only

Candela Plot



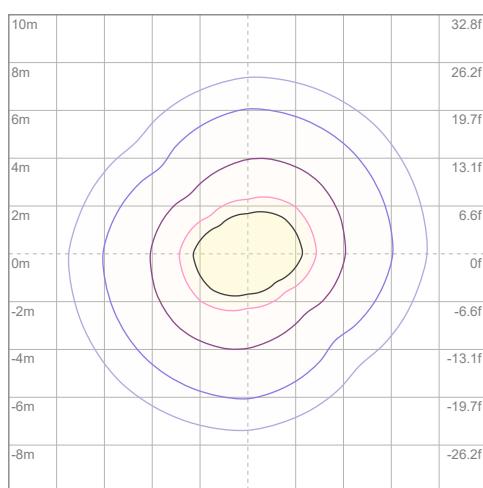
Polar Diagrams



iso-candela Diagram

10%	990 cd
20%	1981 cd
30%	2971 cd
40%	3961 cd
50%	4952 cd
60%	5942 cd
70%	6932 cd
80%	7923 cd
90%	8913 cd

Conditions:
Number of c-planes: 8
Candela at center: 9903 cd



iso-illuminance Diagram

3%	2.97 lx
5%	4.95 lx
10%	9.90 lx
30%	29.7 lx
50%	49.5 lx

Conditions:
Number of c-planes: 8
Lux at center: 99.0 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

Chromaticity Report

Strike Saber: Full Power

Report Summary

Measurements

Total Lumens: 5512 lm

Peak Intensity: 24227 cd

Fixture Efficacy: 43 lm/W

Correlated Color Temperature: 2502K

Δu_v : -0.0034

CRI: 87.5 CRI R9 Value: 36.3

CQS: 85.5

TLCI: 85

TM-30-18 Rf: 88.8

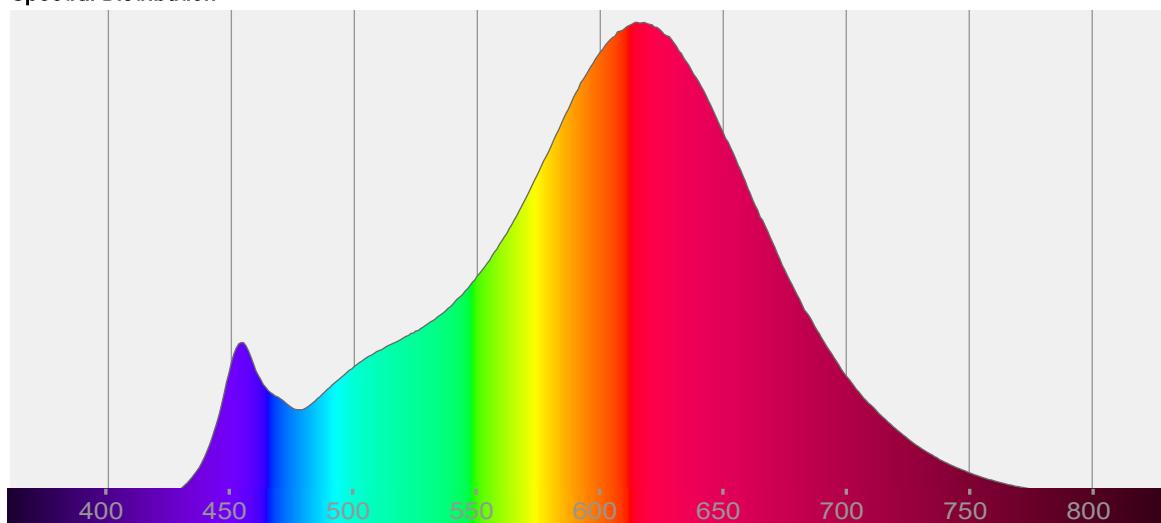
TM-30-18 Rg: 97.9

1st Dominant Wavelength: 615 nm

2nd Dominant Wavelength: 454 nm



Spectral Distribution



Tested Color

2502 K

CIE 1931 Coordinates:
X: 0.471 Y: 0.403

Color Temperature

2502 K

Light Quality

CRI: 87.5

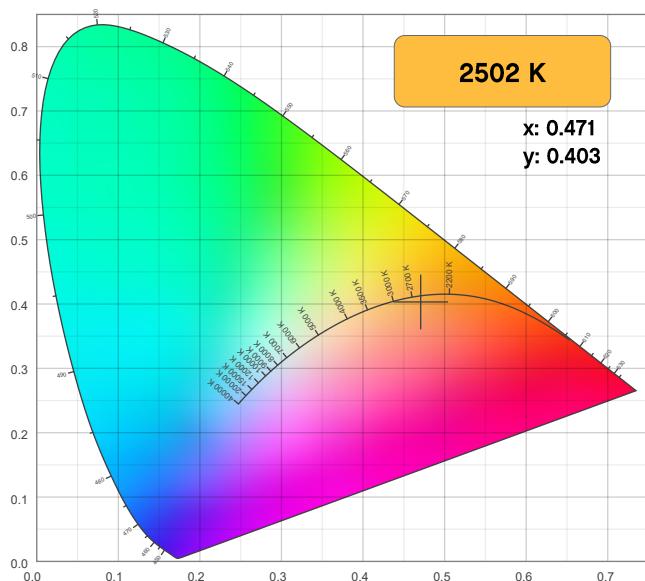
Notes:

Chromaticity Report

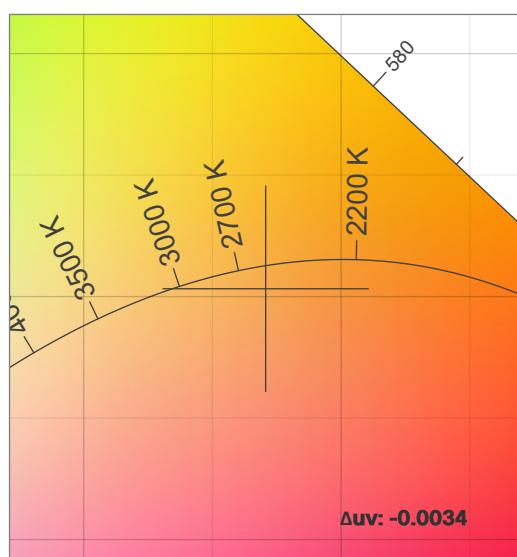
Strike Saber: Full Power

Chromaticity

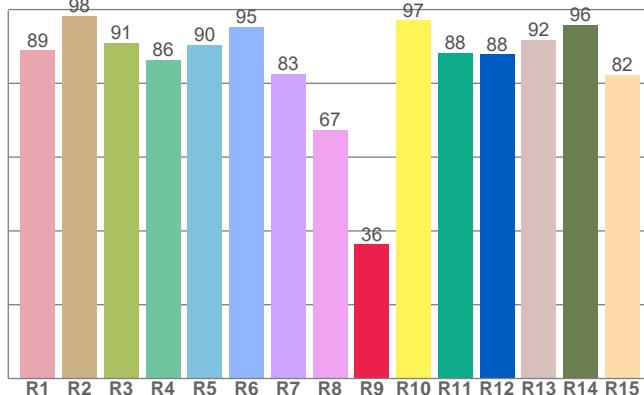
CIE 1931



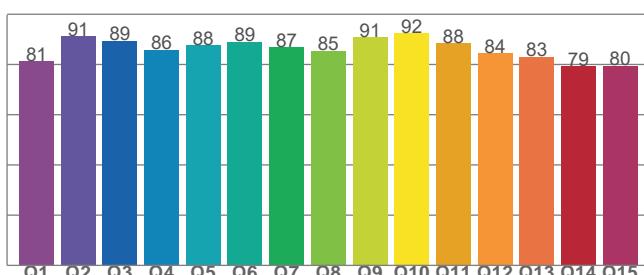
CIE 1931 - Zoom



CRI: 87.5 (R1-R8)



CQS: 85.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2502 K	0.471	0.403

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0034	0.403	0.273

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
87.5	363	85.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
85	888	97.9

Chromaticity Report

Strike Saber: Full Power

TM-30-18 Details

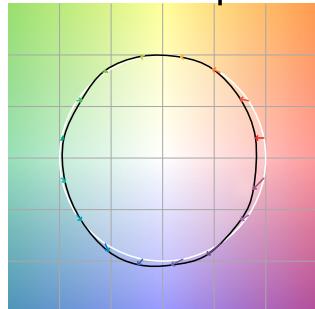
Rf 88.8

Fidelity Index
(Rg)

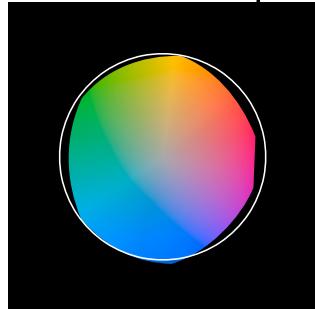
Rg 97.9

Gamut Index (Rg)

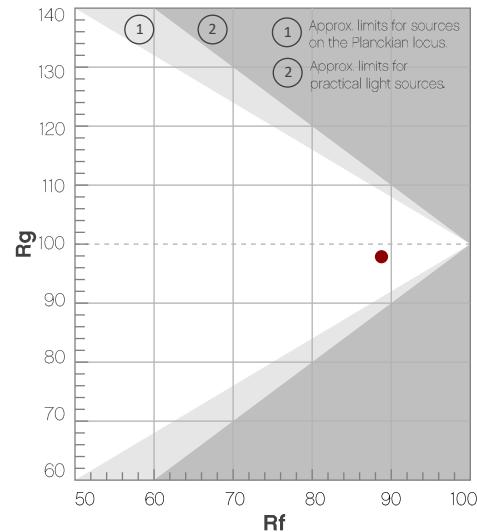
Color Vector Graphic



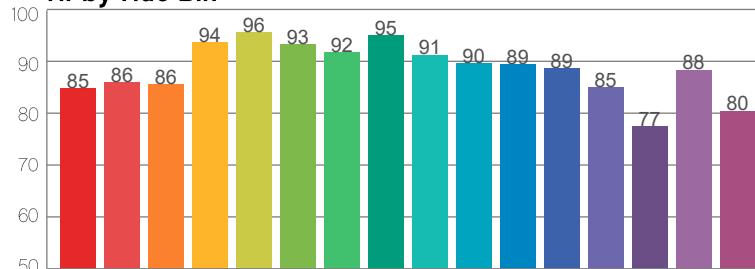
Color Distortion Graphic



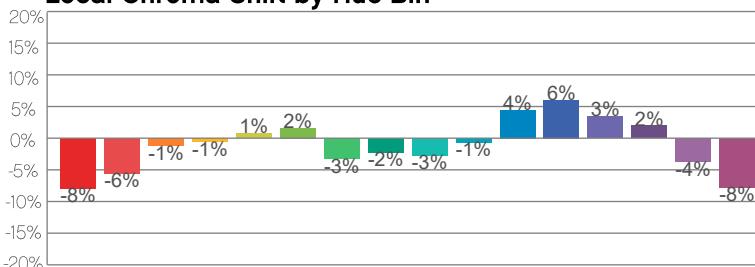
Hue Bin	R _f	Chroma Shift	Hue Shift
1	85	-8%	1%
2	86	-6%	6%
3	86	-1%	8%
4	94	-1%	2%
5	96	1%	1%
6	93	2%	-1%
7	92	-3%	-4%
8	95	-2%	1%
9	91	-3%	4%
10	90	-1%	6%
11	89	4%	6%
12	89	6%	-3%
13	85	3%	-12%
14	77	2%	-16%
15	88	-4%	-7%
16	80	-8%	-12%



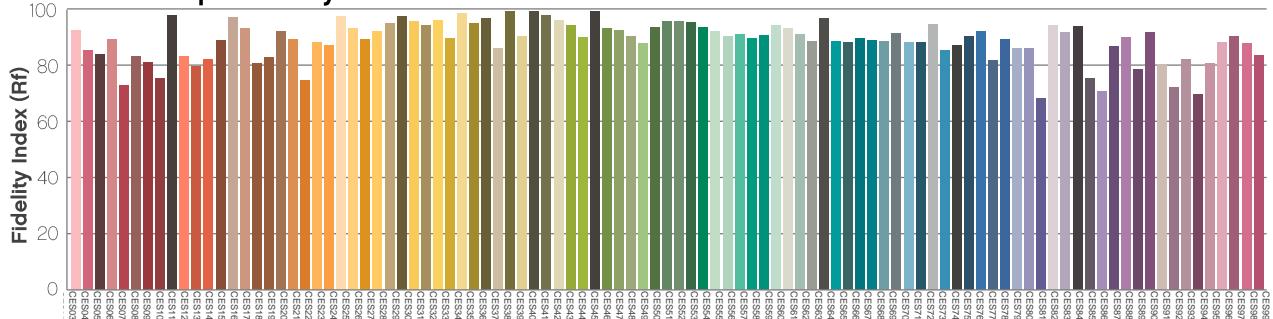
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chauvet Professional – www.chauvetprofessional.com

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All product specifications, measurements and dimensions are subject to change without notice

Chromaticity Report

Strike Saber: Warm White Only

Report Summary

Measurements

Total Lumens: 3621 lm

Peak Intensity: 16119 cd

Fixture Efficacy: 65 lm/W

Correlated Color Temperature: 3140K

Δu_v : 0.0012

CRI: 88.7 CRI R9 Value: 37.5

CQS: 88.1

TLCI: 85

TM-30-18 Rf: 88.7

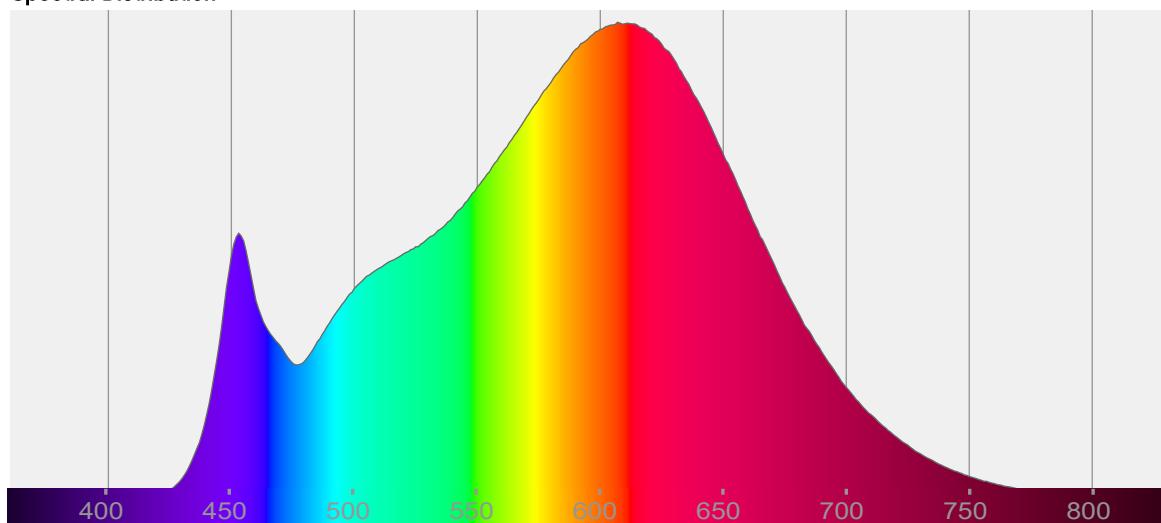
TM-30-18 Rg: 95.2

1st Dominant Wavelength: 607 nm

2nd Dominant Wavelength: 453 nm



Spectral Distribution



Tested Color

3140 K

CIE 1931 Coordinates:

X: 0.429 Y: 0.404

Color Temperature

3140 K

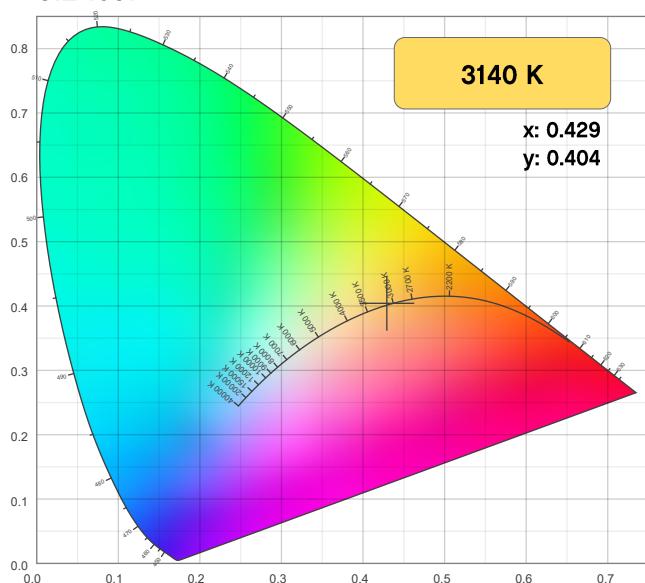
Notes:

Chromaticity Report

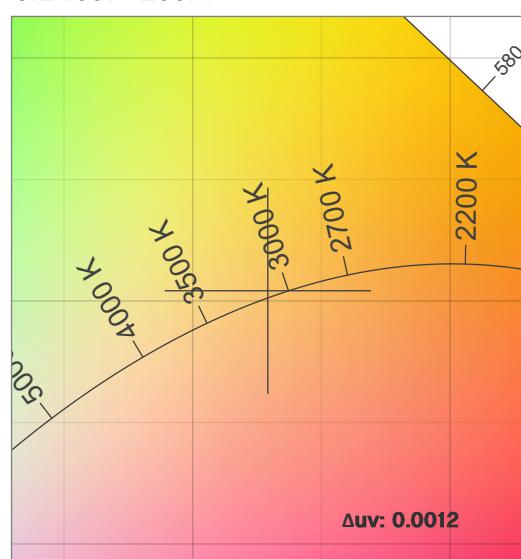
Strike Saber: Warm White Only

Chromaticity

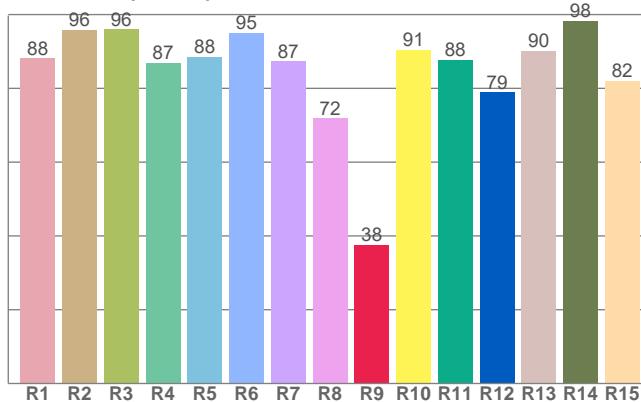
CIE 1931



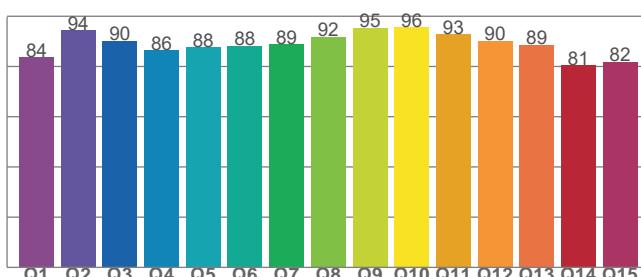
CIE 1931 - Zoom



CRI: 88.7 (R1-R8)



CQS: 88.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3140 K	0.429	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0012	0.404	0.246

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
88.7	37.5	88.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
85	88.7	95.2

Chromaticity Report

Strike Saber: Warm White Only

TM-30-18 Details

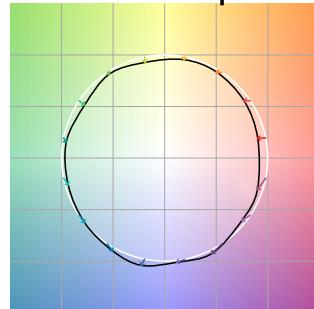
Rf 88.7

Fidelity Index
(Rg)

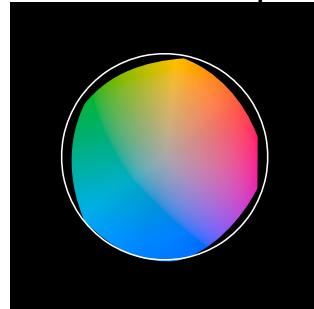
Rg 95.2

Gamut Index (Rg)

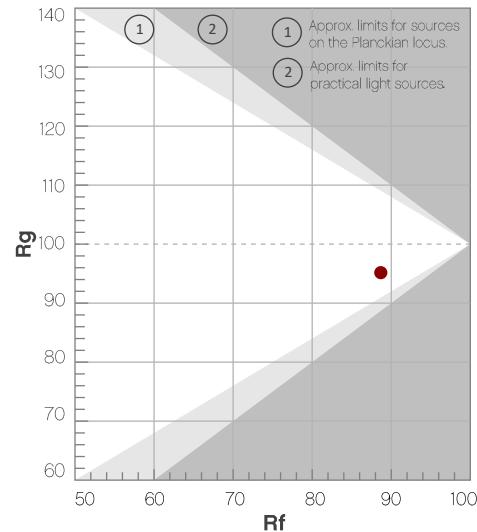
Color Vector Graphic



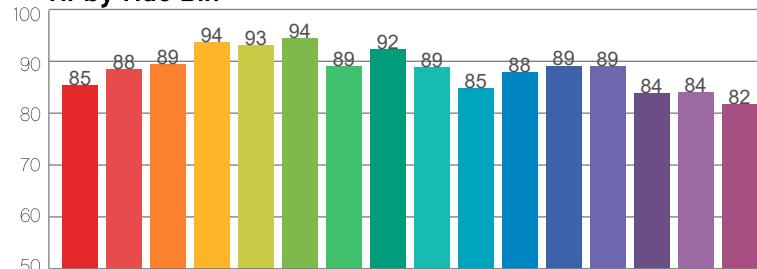
Color Distortion Graphic



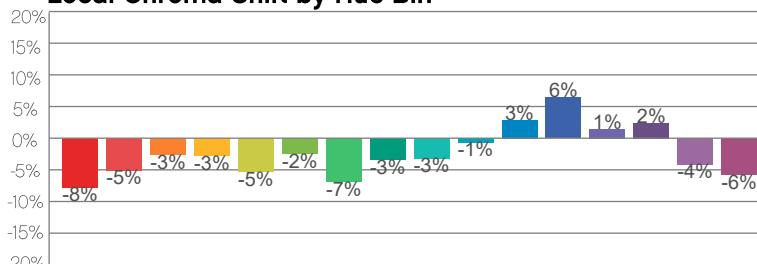
Hue Bin	R _f	Chroma Shift	Hue Shift
1	85	-8%	1%
2	88	-5%	4%
3	89	-3%	5%
4	94	-3%	0%
5	93	-5%	0%
6	94	-2%	-1%
7	89	-7%	0%
8	92	-3%	3%
9	89	-3%	7%
10	85	-1%	9%
11	88	3%	8%
12	89	6%	-2%
13	89	1%	-8%
14	84	2%	-13%
15	84	-4%	-9%
16	82	-6%	-12%



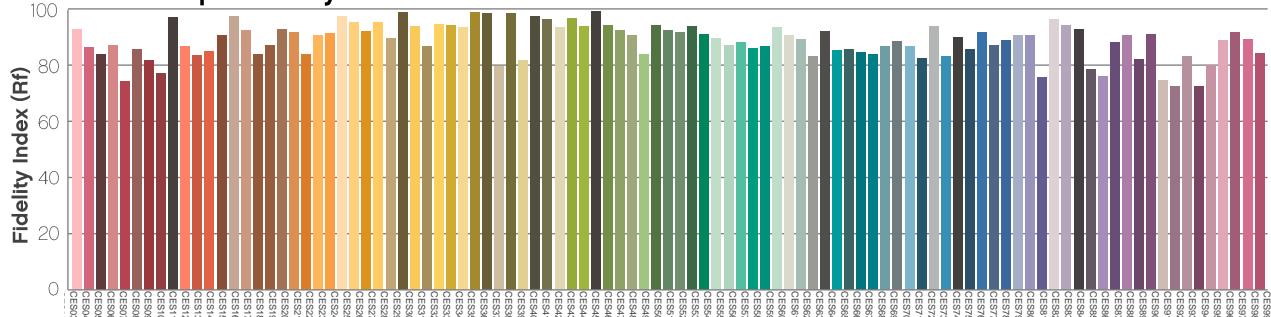
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



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Chromaticity Report

Strike Saber: Amber Only

Report Summary

Measurements

Total Lumens: 2252 lm

Peak Intensity: 10103 cd

Fixture Efficacy: 39 lm/W

Correlated Color Temperature: 1791K

Δu_v : -0.0014

CRI: 80.1 CRI R9 Value: 11.7

CQS: 67.0

TLCI: 85

TM-30-18 Rf: 82.8

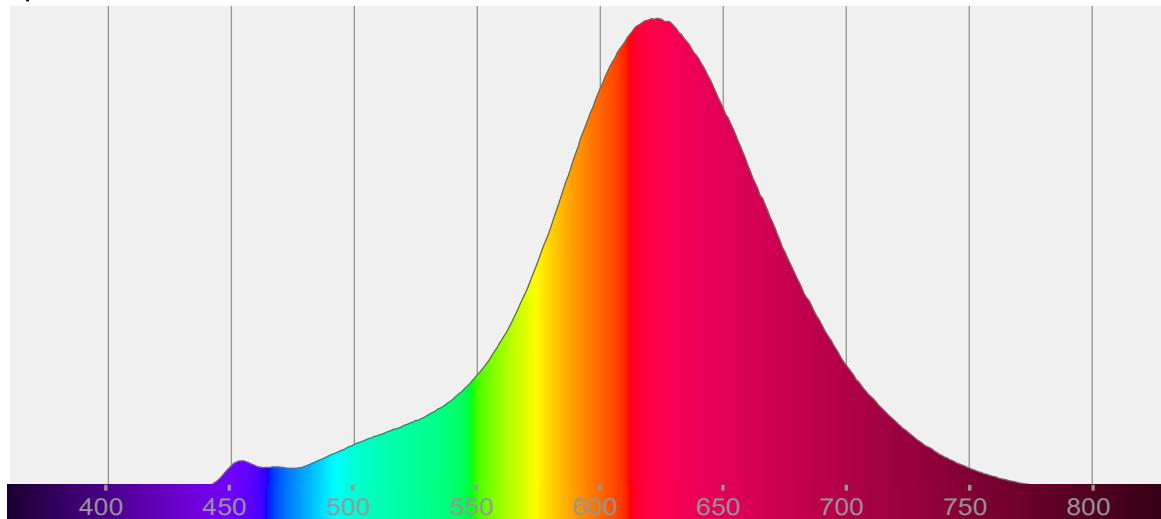
TM-30-18 Rg: 95.4

1st Dominant Wavelength: 623 nm

2nd Dominant Wavelength: 455 nm



Spectral Distribution



Tested Color

1791 K

CIE 1931 Coordinates:
X: 0.547 Y: 0.404

Color Temperature

1791 K

Light Quality

CRI: 80.1

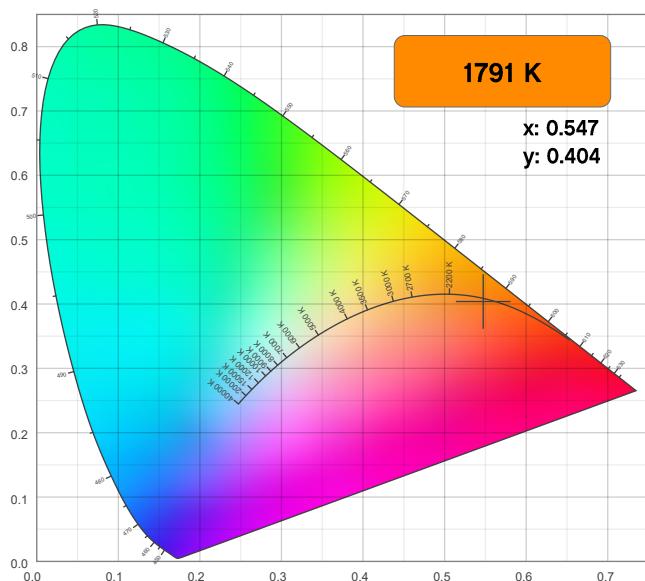
Notes:

Chromaticity Report

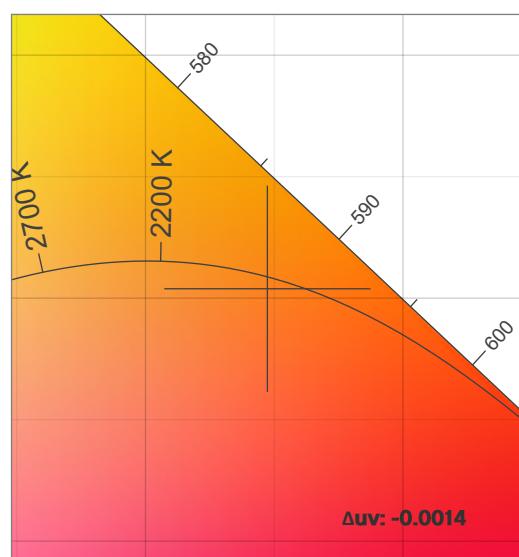
Strike Saber: Amber Only

Chromaticity

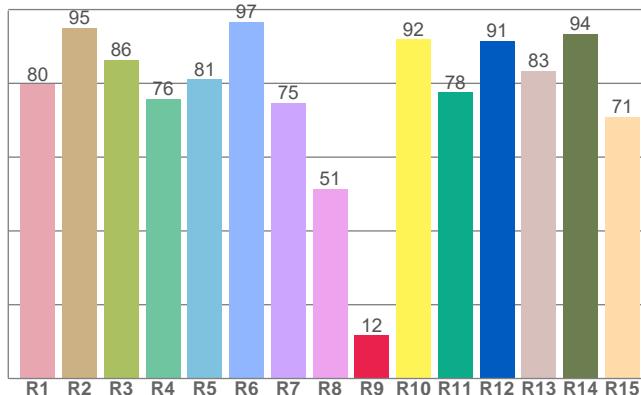
CIE 1931



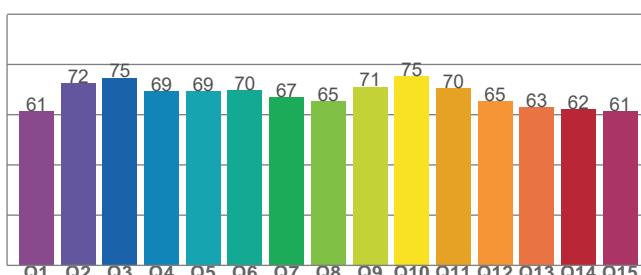
CIE 1931 - Zoom



CRI: 80.1 (R1-R8)



CQS: 67.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
1791 K	x: 0.547	y: 0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg

Chromaticity Report

Strike Saber: Amber Only

TM-30-18 Details

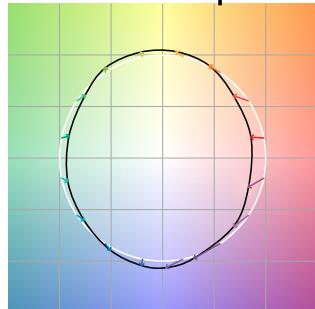
Rf 82.8

Fidelity Index
(Rg)

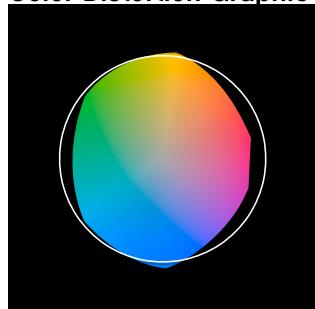
Rg 95.4

Gamut Index (Rg)

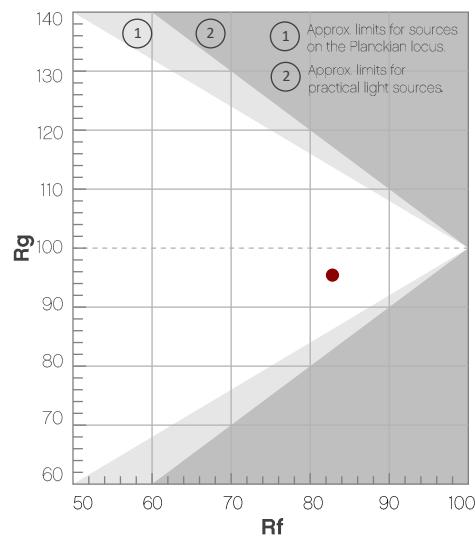
Color Vector Graphic



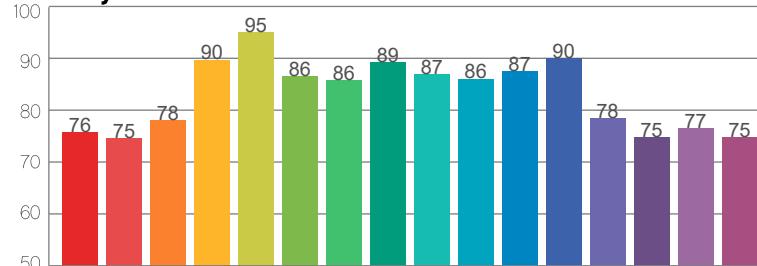
Color Distortion Graphic



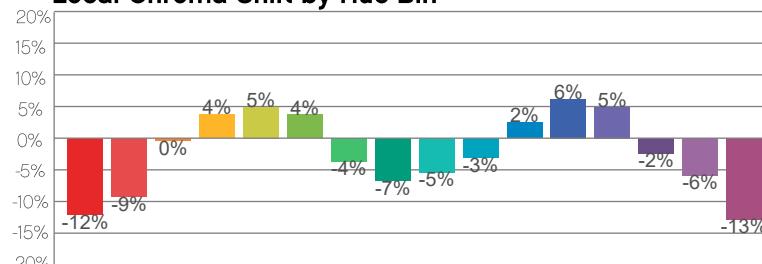
Hue Bin	R _f	Chroma Shift	Hue Shift
1	76	-12%	3%
2	75	-9%	12%
3	78	0%	12%
4	90	4%	7%
5	95	5%	1%
6	86	4%	-3%
7	86	-4%	-9%
8	89	-7%	-3%
9	87	-5%	4%
10	86	-3%	8%
11	87	2%	8%
12	90	6%	0%
13	78	5%	-17%
14	75	-2%	-29%
15	77	-6%	-17%
16	75	-13%	-11%



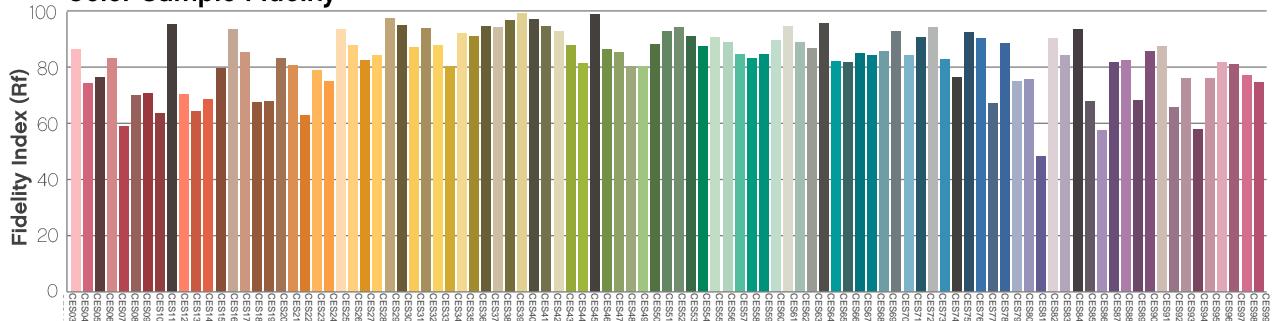
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



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Contact Us

General Information	Technical Support
Chauvet World Headquarters	
5200 NW 108 th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetprofessional.com
Chauvet Europe Ltd	
Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: UKtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet Europe BVBA	
Stokstraat 18 9770 Kruishoutem, Belgium Voice: +32 (9) 388 93 97	Email: BNLtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet France	
3, Rue Ampère 91380 Chilly-Mazarin, France Voice: +33 1 78 85 33 59	Email: FRtech@chauvetlighting.fr Website: www.chauvetprofessional.eu
Chauvet Germany	
Bruno-Bürgel-Str. 11 28759 Bremen, Germany Voice: +49 421 62 60 20	Email: DEtech@chauvetlighting.de Website: www.chauvetprofessional.eu
Chauvet Mexico	
Av. de las Partidas 34 - 3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Edo. de México, CP 52000 Voice: +52 (728) 690-2010	Email: servicio@chauvetlighting.de Website: www.chauvetprofessional.eu

Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact the dealer of the record.

