PHOTOMETRICS REPORT

STRIKE 1

CHAUVET PROFESSIONAL

Table of Contents

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

Strike1: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 11696 lm
Peak Intensity: 29594 cd
Illuminance @ 5m: 1184 lux
Fixture Efficacy: 42 lm/W

Optical

Horizontal Beam Angle (50%): 32.9°
Vertical Beam Angle (50%): 32.9°
Horizontal Field Angle (10%): 55.9°
Vertical Field Angle (10%): 55.9°
Horizontal Cutoff Angle (3%): 79.9°
Vertical Cutoff Angle (3%): 79.9°

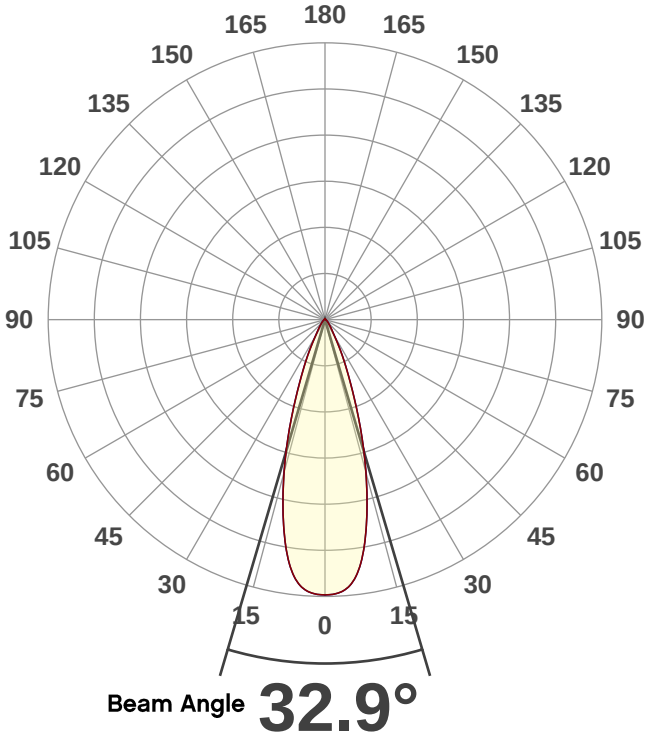
Conditions

AC Supply: 118 V, 60 Hz
Power: 280.13 W
Current: 2.38 A
Power Factor: 0.99

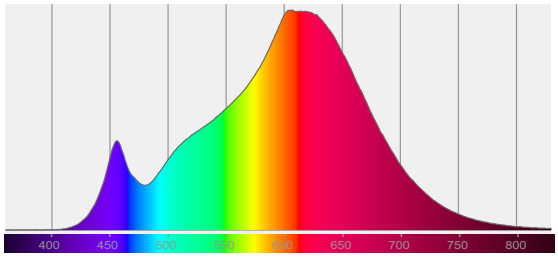
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/21/2020 to LM-63-2002 Standards.

Overall Measurement

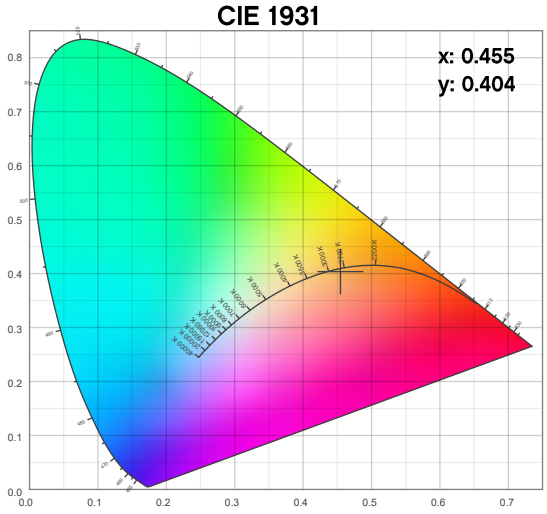
Angular Beam Distribution



Spectral Distribution



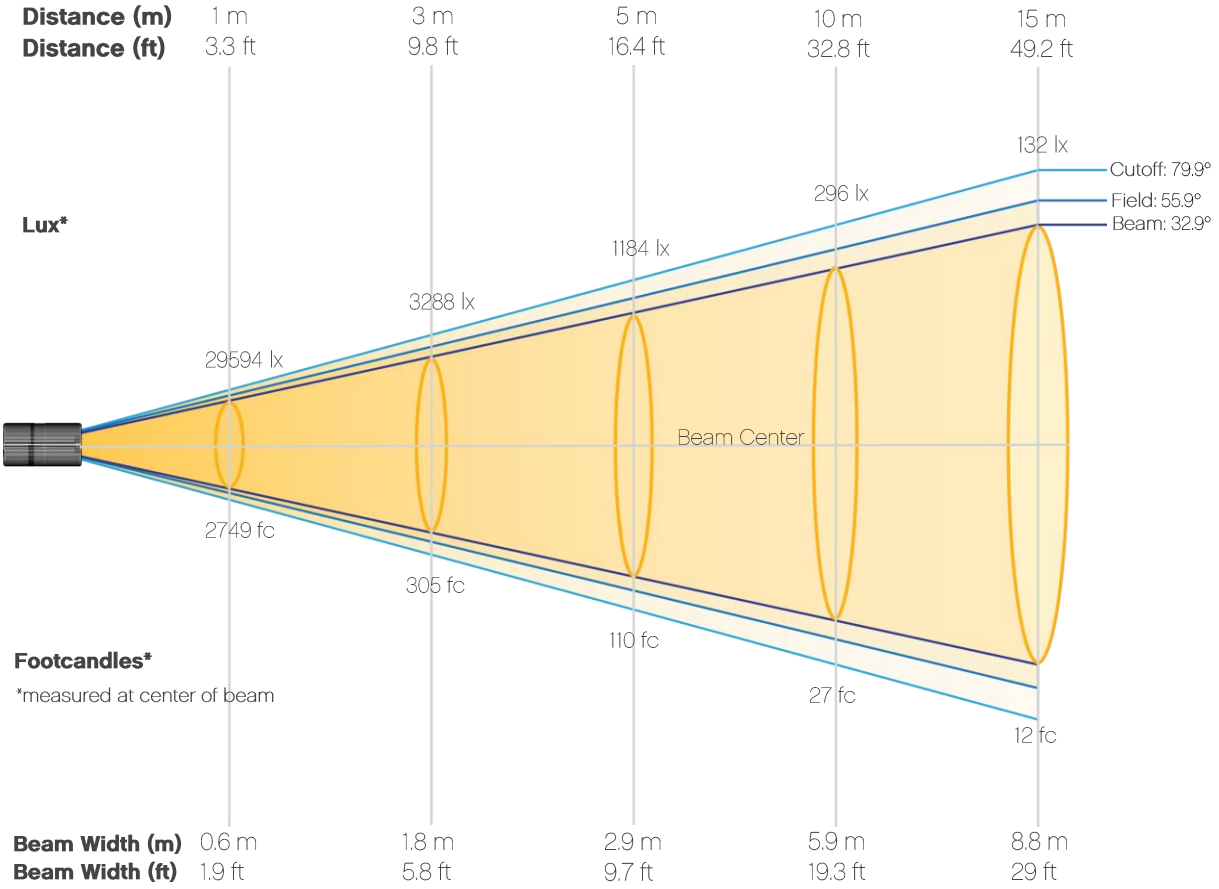
CIE 1931



Photometric Report

Strike1: Standard Optics, Full Power

Beam Details

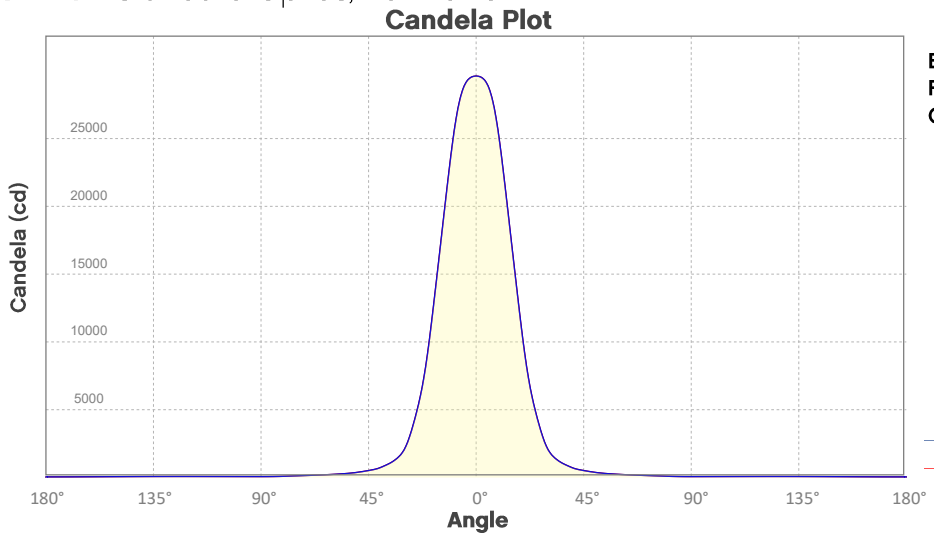


Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	29594	7399	3288	1850	1184	822	604	462	365	296
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	245	206	175	151	132	116	102	91	82	74
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2749	687	305	172	110	76	56	43	34	27
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	23	19	16	14	12	11	10	8	8	7

Photometric Report

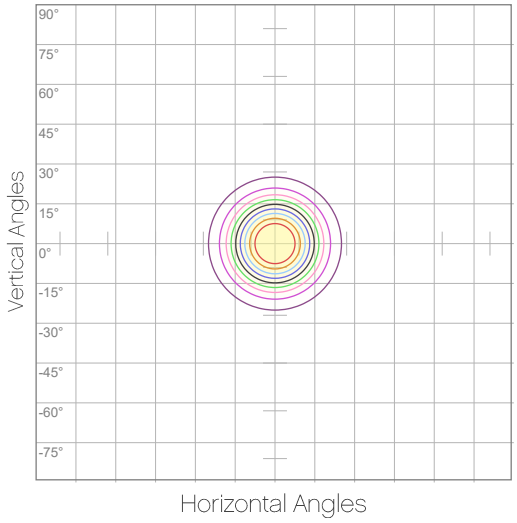
Strike1: Standard Optics, Full Power



Beam Angle (50%): 32.9°
Field Angle (10%): 55.9°
Cutoff Angle (3%): 79.9°

Horizontal Distribution
Vertical Distribution

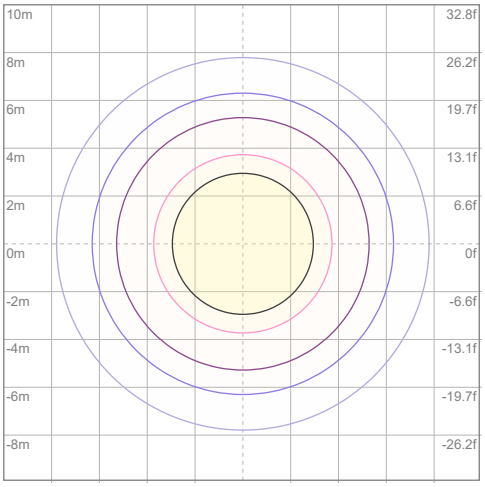
Polar Diagrams



iso-candela Diagram

10%	2959 cd
20%	5919 cd
30%	8878 cd
40%	11838 cd
50%	14797 cd
60%	17756 cd
70%	20716 cd
80%	23675 cd
90%	26635 cd

Conditions:
Number of c-planes: 8
Candela at center: 29594 cd



iso-illuminance Diagram

3%	8.88 lx
5%	14.8 lx
10%	29.6 lx
30%	88.8 lx
50%	148 lx

Conditions:
Number of c-planes: 8
Lux at center: 296 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Strike1: Standard Optics, Red Shift OFF

Report Summary

Output

Total Lumens: 11317 lm
Peak Intensity: 29072 cd
Illuminance @ 5m: 1126 lux
Fixture Efficacy: 42 lm/W

Optical

Horizontal Beam Angle (50%): 32.3°
Vertical Beam Angle (50%): 32.6°
Horizontal Field Angle (10%): 55.8°
Vertical Field Angle (10%): 56°
Horizontal Cutoff Angle (3%): 79.2°
Vertical Cutoff Angle (3%): 80.3°

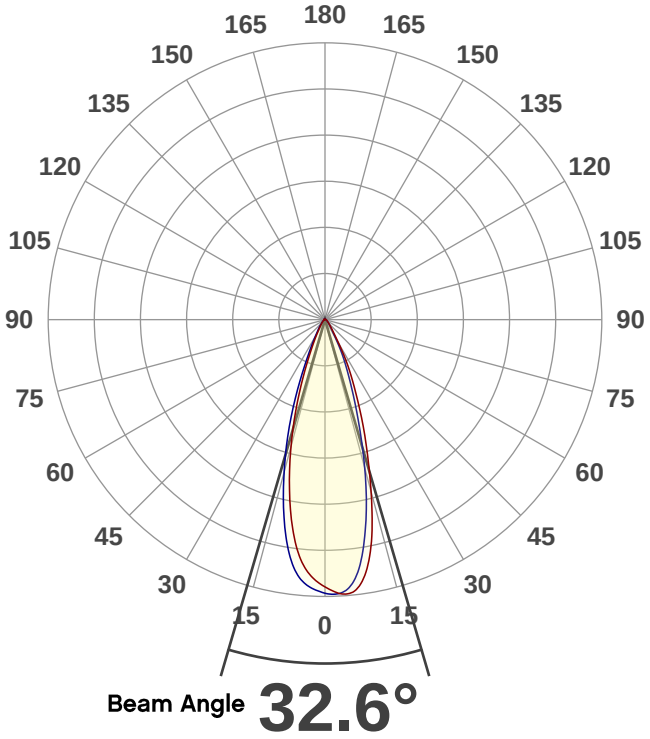
Conditions

AC Supply: 117 V, 60 Hz
Power: 274.07 W
Current: 2.34 A
Power Factor: 0.99

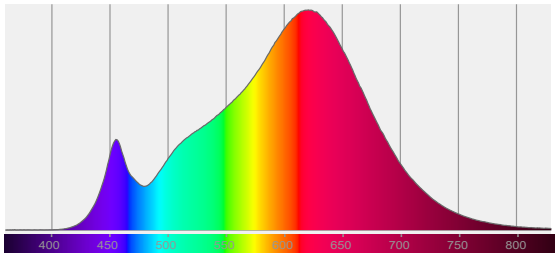
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/21/2020 to LM-63-2002 Standards.

Overall Measurement

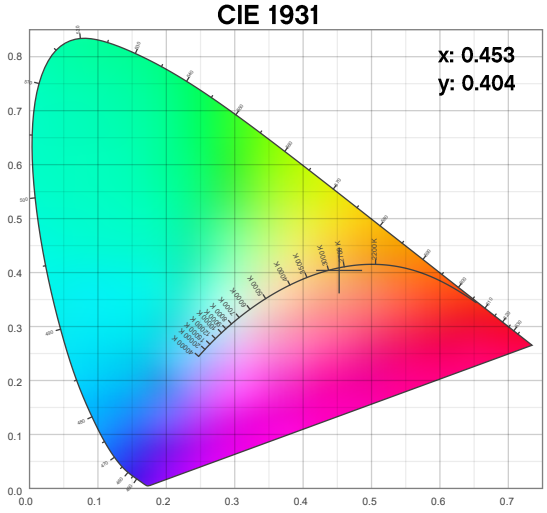
Angular Beam Distribution



Spectral Distribution



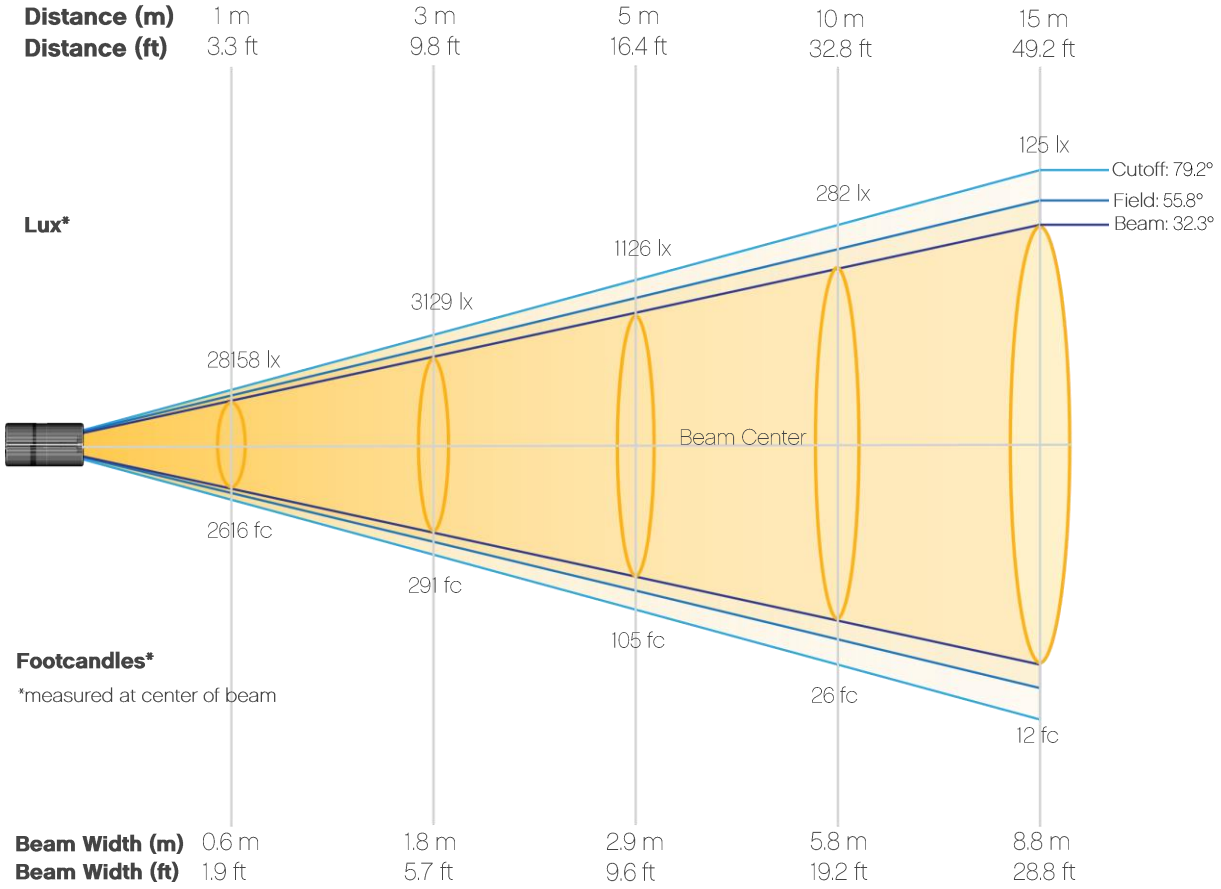
CIE 1931



Photometric Report

Strike1: Standard Optics, Red Shift OFF

Beam Details

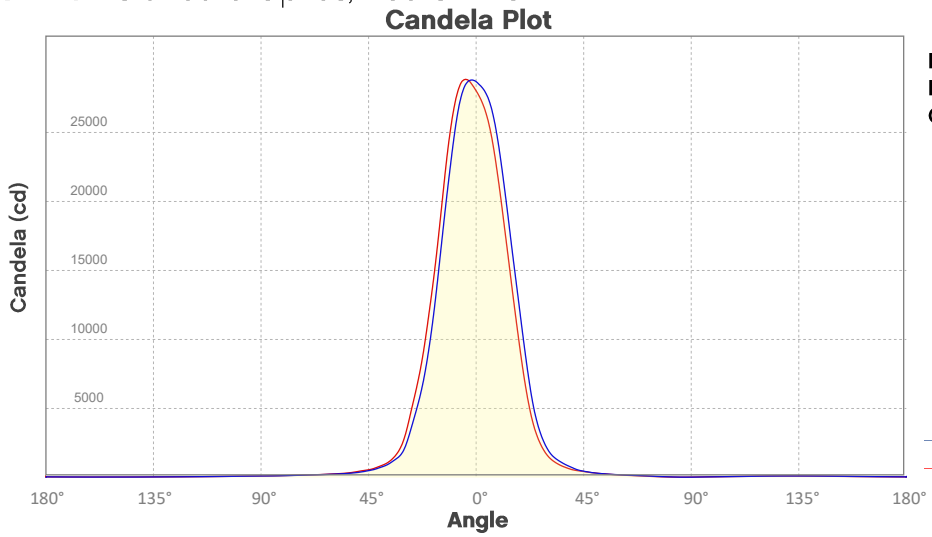


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	28158	7040	3129	1760	1126	782	575	440	348	282
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	233	196	167	144	125	110	97	87	78	70
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2616	654	291	163	105	73	53	41	32	26
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	22	18	15	13	12	10	9	8	7	7

Photometric Report

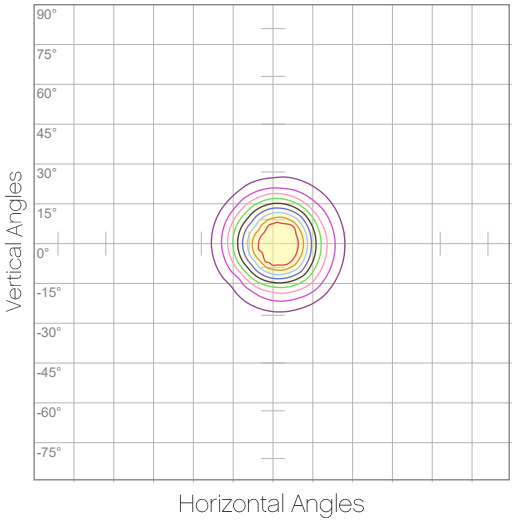
Strike1: Standard Optics, Red Shift OFF



Beam Angle (50%): 32.6°
Field Angle (10%): 55.8°
Cutoff Angle (3%): 79.7°

Horizontal Distribution
Vertical Distribution

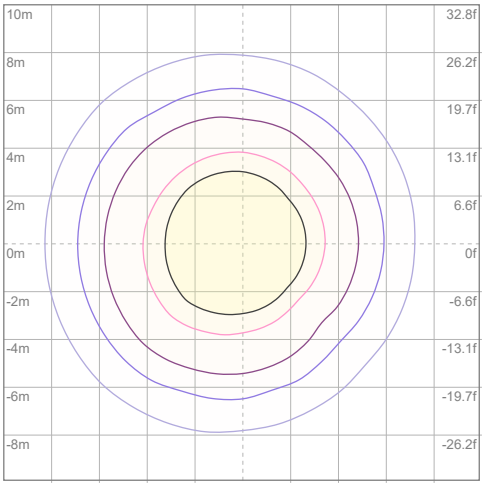
Polar Diagrams



iso-candela Diagram

10%	2816 cd
20%	5632 cd
30%	8447 cd
40%	11263 cd
50%	14079 cd
60%	16895 cd
70%	19711 cd
80%	22527 cd
90%	25342 cd

Conditions:
Number of c-planes: 8
Candela at center: 28158 cd



iso-illuminance Diagram

3%	8.45 lx
5%	14.1 lx
10%	28.2 lx
30%	84.5 lx
50%	141 lx

Conditions:
Number of c-planes: 8
Lux at center: 282 lx

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

Mounting height: 10 meters / 33 feet

Chromaticity Report

Strike1: Full Power

Report Summary

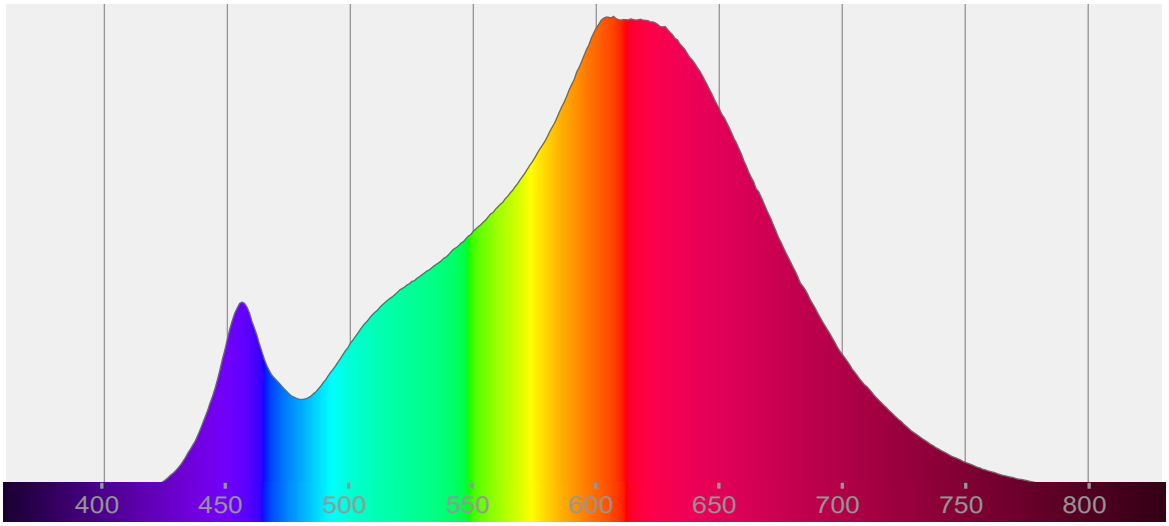
Measurements

Total Lumens: 11696 lm
Peak Intensity: 29594 cd
Fixture Efficacy: 42 lm/W

Correlated Color Temperature: 2724K
Δuv: -0.0022

CRI: 91.3 CRI R9 Value: 48.4
CQS: 89.2
TLCI: 89
TM-30-18 Rf: 91.0
TM-30-18 Rg: 98.7
1st Dominant Wavelength: 607 nM
2nd Dominant Wavelength: 456 nM

Spectral Distribution



Tested Color

2724 K
CIE 1931 Coordinates:
X: 0.455 Y: 0.404

Color Temperature

2724 K

Light Quality

CRI: 91.3

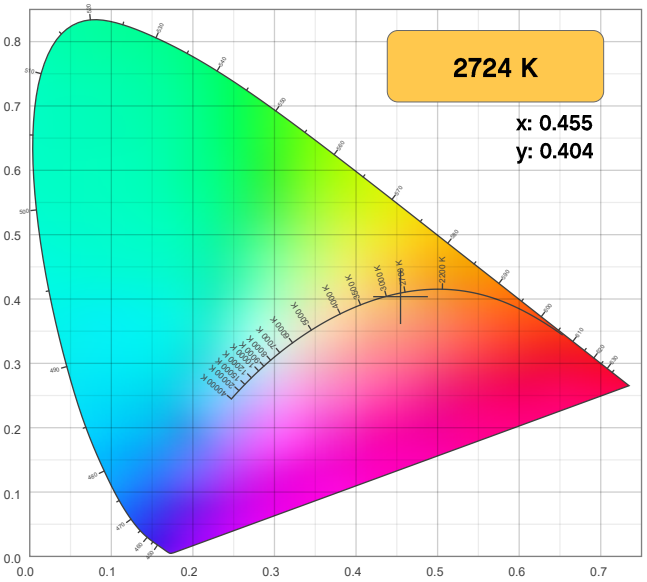
Notes:

Chromaticity Report

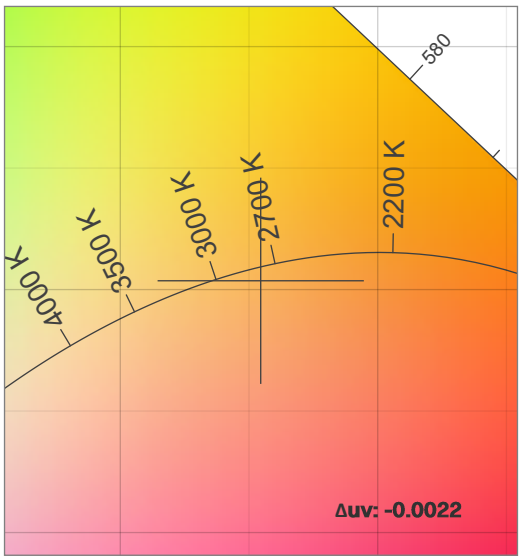
Strike1: Full Power

Chromaticity

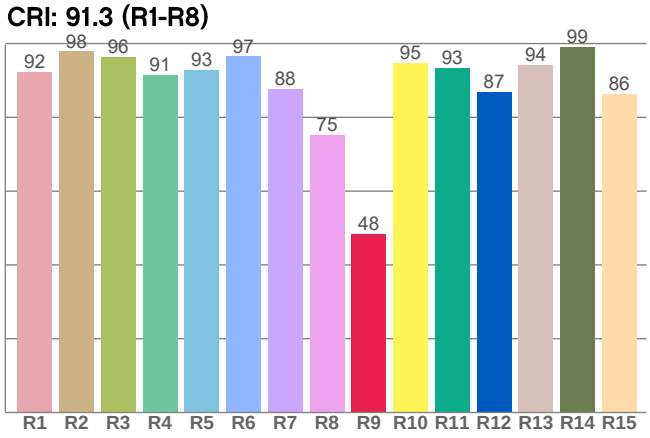
CIE 1931



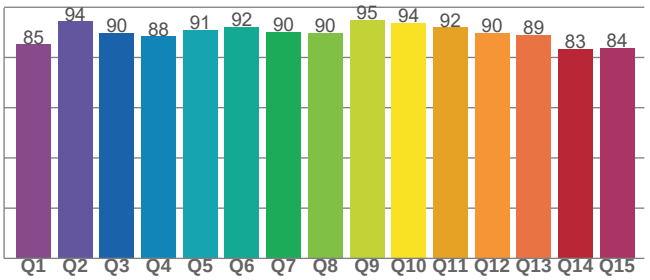
CIE 1931 - Zoom



CRI: 91.3 (R1-R8)



CQS: 89.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2724 K	0.455	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0022	0.404	0.262

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
91.3	48.4	89.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
89	91.0	98.7

Chromaticity Report

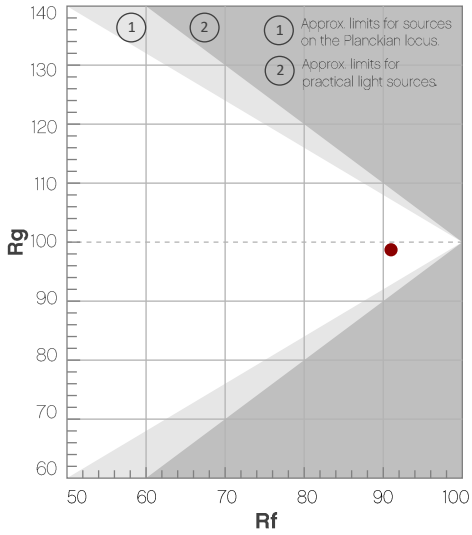
Strike1: Full Power

TM-30-18 Details

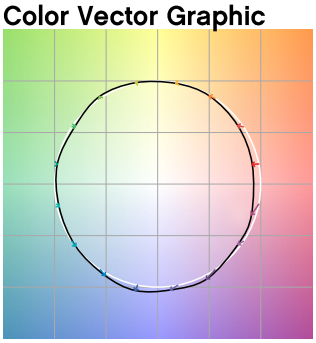
Rf 91.0
Fidelity Index (Rg)

Rg 98.7
Gamut Index (Rg)

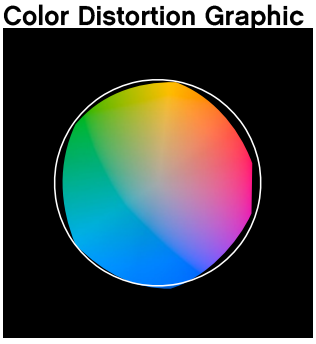
Hue Bin	R_f	Chroma Shift	Hue Shift
1	88	-6%	1%
2	90	-4%	4%
3	89	-1%	6%
4	94	-1%	2%
5	95	1%	2%
6	95	2%	0%
7	93	-2%	-3%
8	97	-1%	0%
9	94	-2%	3%
10	91	0%	6%
11	90	2%	7%
12	89	5%	-1%
13	89	3%	-8%
14	86	3%	-12%
15	90	-3%	-5%
16	84	-5%	-11%



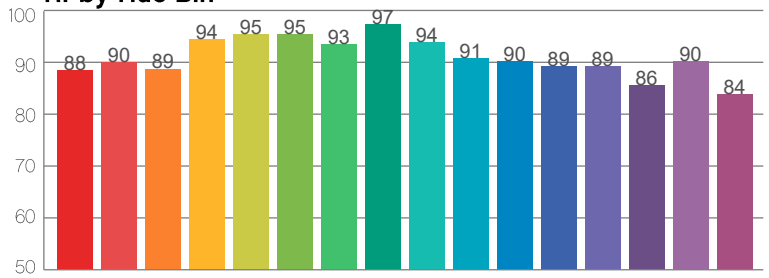
Color Vector Graphic



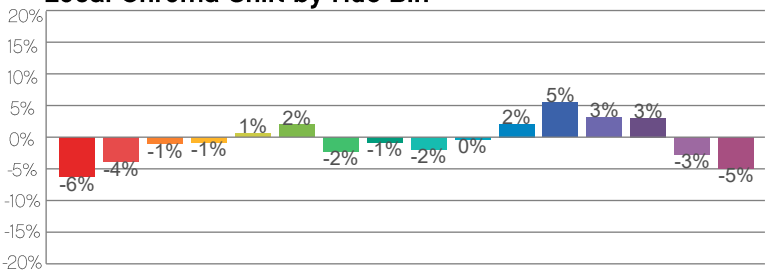
Color Distortion Graphic



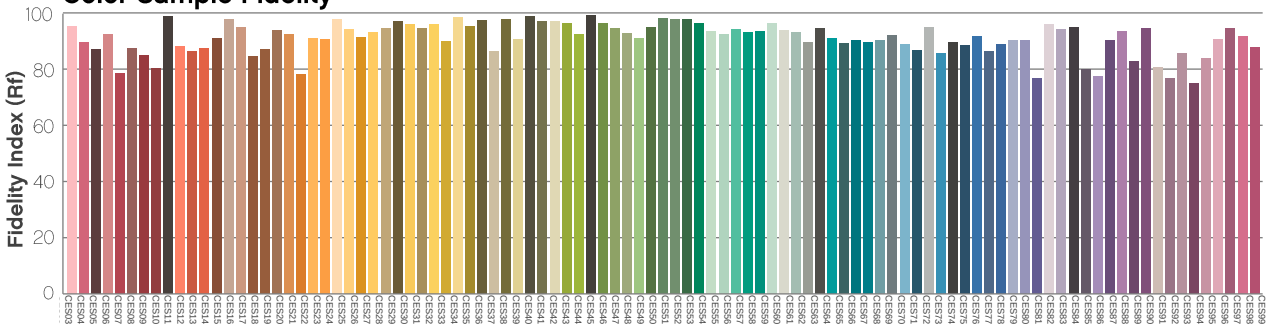
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Strike1: Red Shift OFF

Report Summary

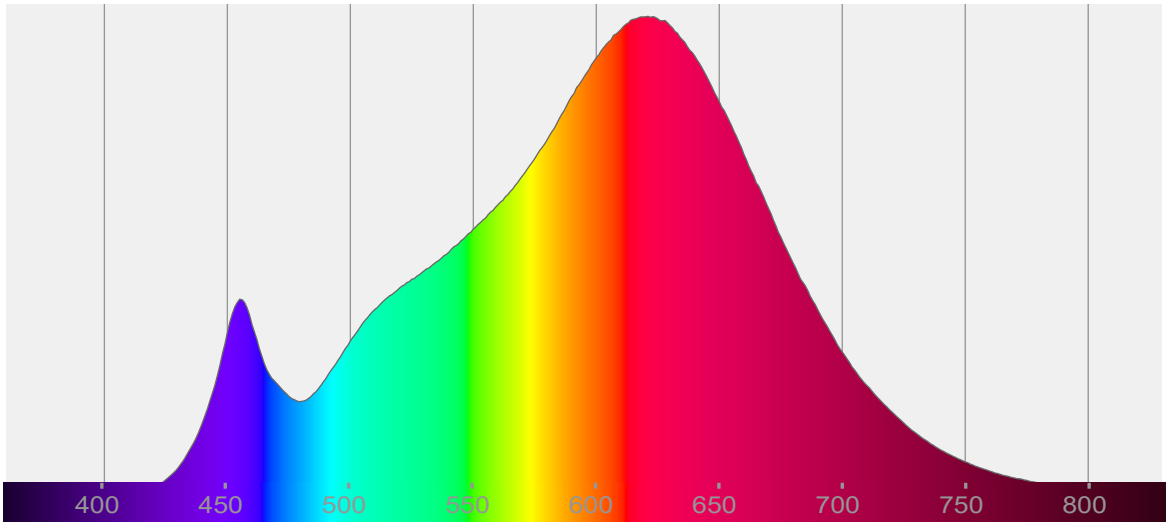
Measurements

Total Lumens: 11317 lm
Peak Intensity: 29072 cd
Fixture Efficacy: 42 lm/W

Correlated Color Temperature: 2754K
Δuv: -0.0019

CRI: 92.7 CRI R9 Value: 56.4
CQS: 90.3
TLCI: 89
TM-30-18 Rf: 91.8
TM-30-18 Rg: 99.2
1st Dominant Wavelength: 621 nM
2nd Dominant Wavelength: 455 nM

Spectral Distribution



Tested Color

2754 K
CIE 1931 Coordinates:
X: 0.453 Y: 0.404

Color Temperature

2754 K

Light Quality

CRI: 92.7

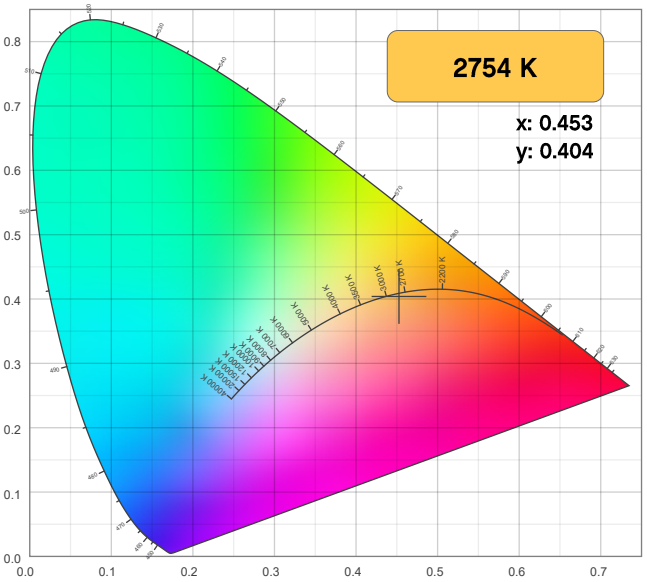
Notes:

Chromaticity Report

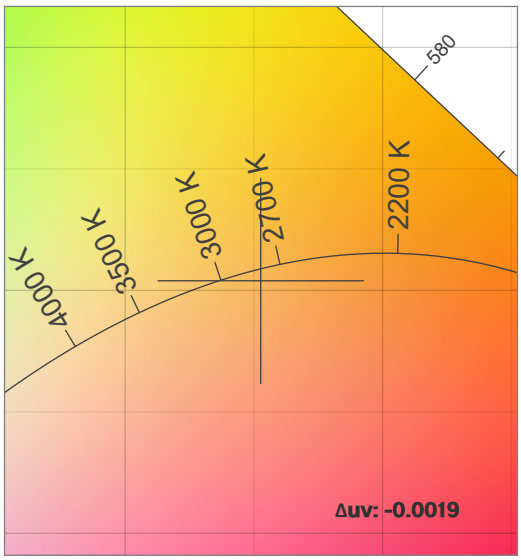
Strike1: Red Shift OFF

Chromaticity

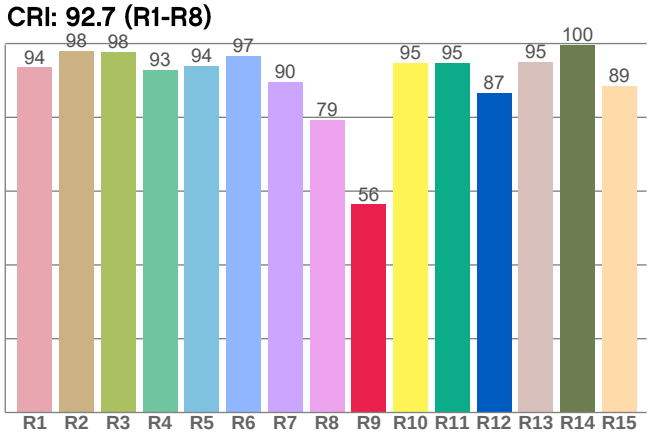
CIE 1931



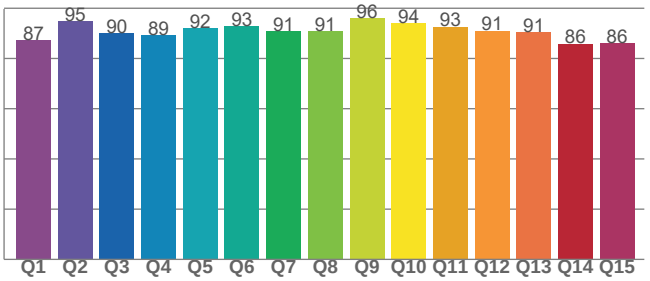
CIE 1931 - Zoom



CRI: 92.7 (R1-R8)



CQS: 90.3



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2754 K	0.453	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0019	0.404	0.261

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.7	56.4	90.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
89	91.8	99.2

Chromaticity Report

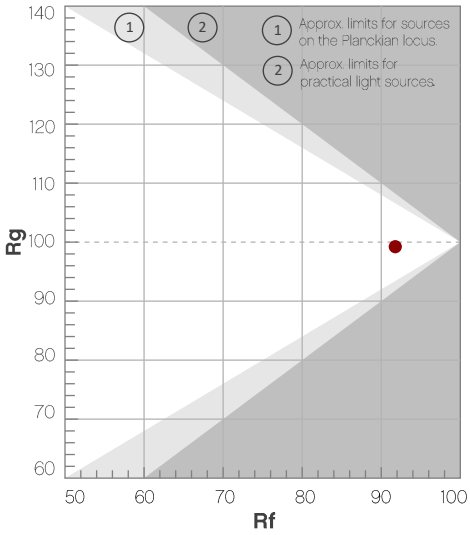
Strike1: Red Shift OFF

TM-30-18 Details

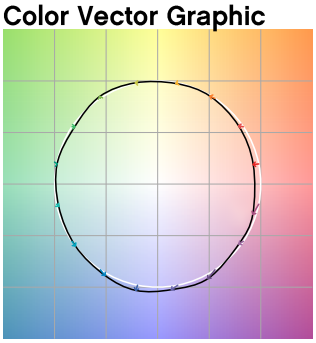
Rf 91.8
Fidelity Index (Rg)

Rg 99.2
Gamut Index (Rg)

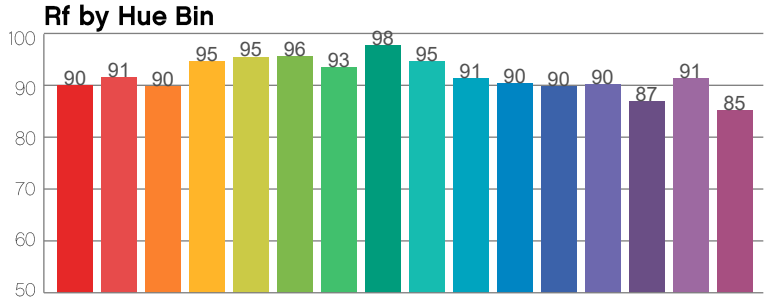
Hue Bin	R_f	Chroma Shift	Hue Shift
1	90	-5%	1%
2	91	-3%	3%
3	90	-1%	5%
4	95	-1%	2%
5	95	1%	2%
6	96	2%	-1%
7	93	-2%	-2%
8	98	-1%	0%
9	95	-2%	2%
10	91	0%	6%
11	90	2%	7%
12	90	5%	-1%
13	90	3%	-7%
14	87	3%	-10%
15	91	-2%	-5%
16	85	-4%	-11%



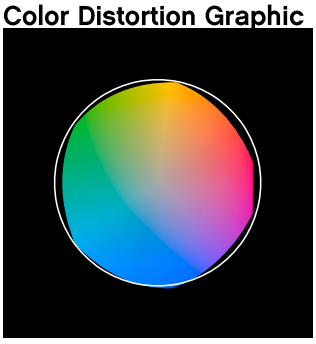
Color Vector Graphic



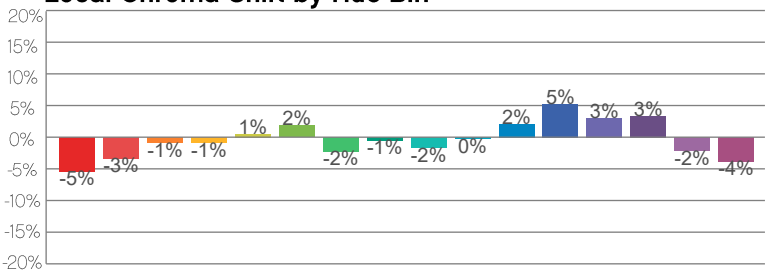
Rf by Hue Bin



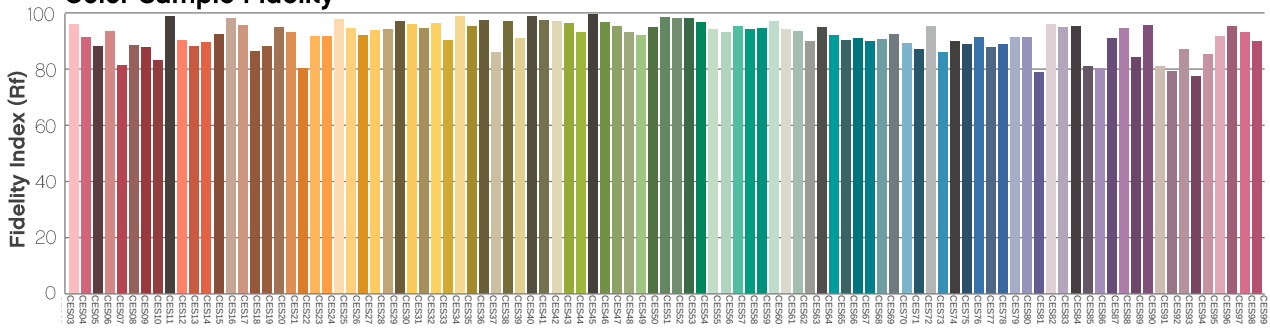
Color Distortion Graphic



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Contact Us

General Information	Technical Support
Chauvet World Headquarters	
5200 NW 108th 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.