

PHOTOMETRICS REPORT

ROGUE



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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

Rogue R3 Beam: Beam, Full Power

Report Summary

Output

Total Lumens: 30878 lm
Peak Intensity: 46801448 cd
Illuminance @ 5m: 1872058 lux
Fixture Efficacy: 31 lm/W

Optical

Horizontal Beam Angle (50%): 0.8°
Vertical Beam Angle (50%): 0.8°
Horizontal Field Angle (10%): 1.6°
Vertical Field Angle (10%): 1.6°
Horizontal Cutoff Angle (3%): 2°
Vertical Cutoff Angle (3%): 2°

Conditions

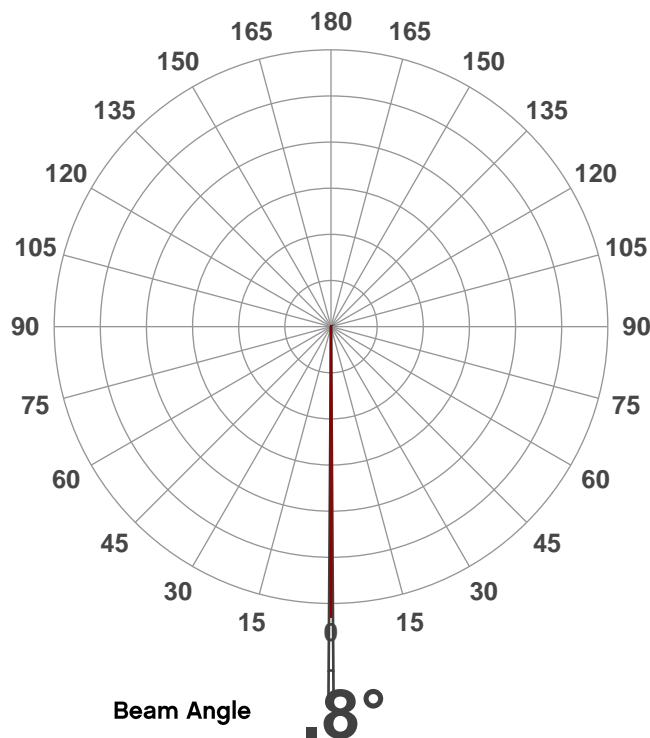
AC Supply: 116 V, 60 Hz
Power: 1005.5 W
Current: 8.67 A
Power Factor: 1.0



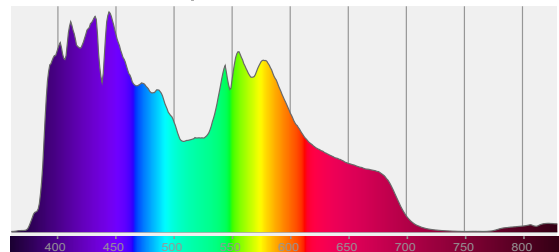
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/15/2021 to LM-63-2002 Standards.

Overall Measurement

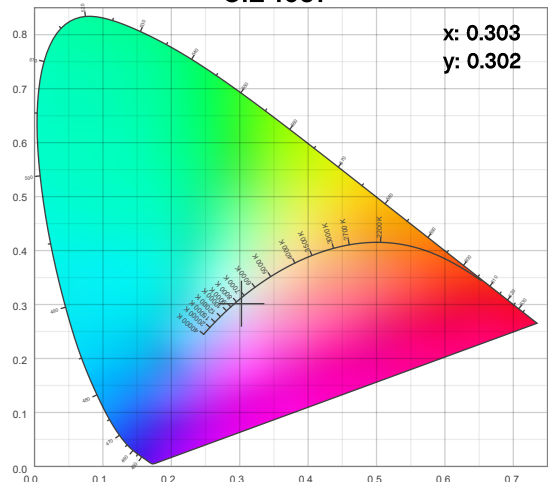
Angular Beam Distribution



Spectral Distribution



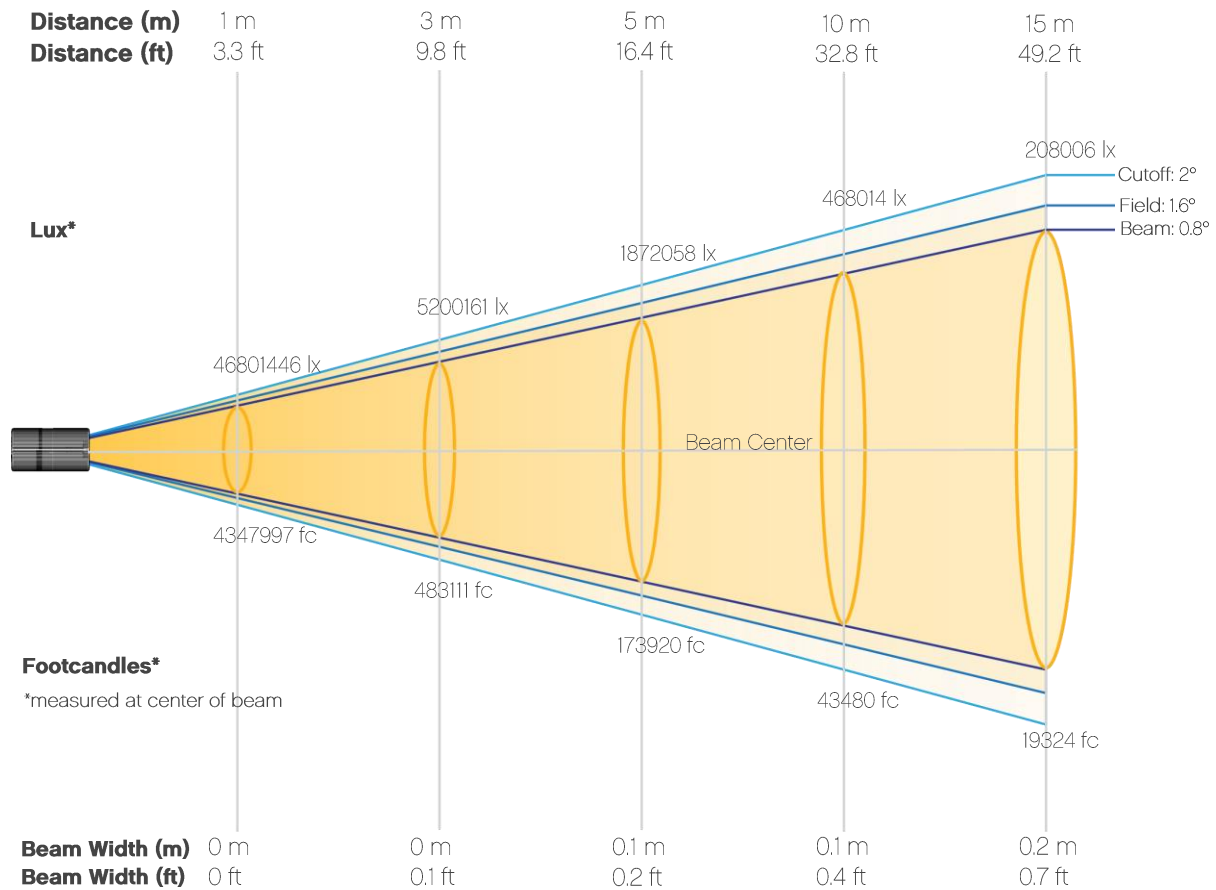
CIE 1931



Photometric Report

Rogue R3 Beam: Beam, Full Power

Beam Details



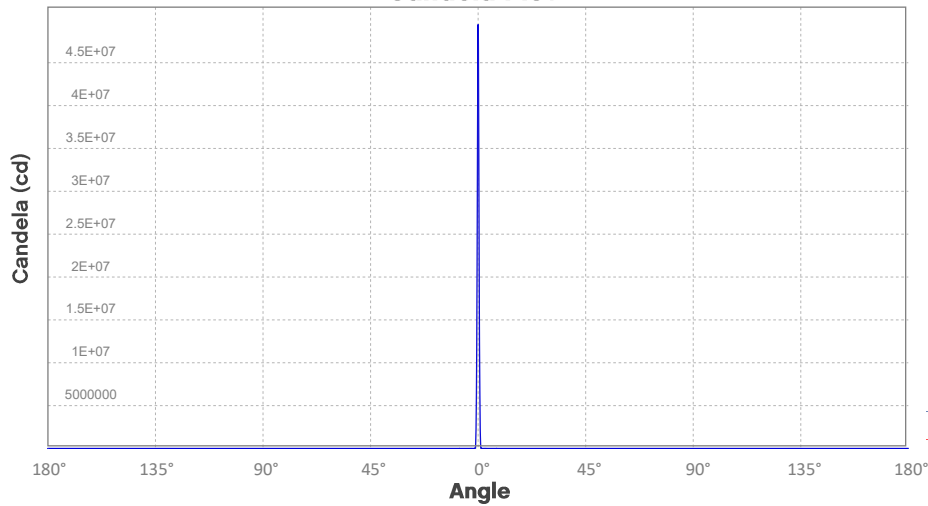
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	468014 46	11700362	5200161	2925090	1872058	1300040	955132	731273	577796	468014
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	38678 9	325010	276932	238783	208006	182818	161943	144449	129644	117004
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	43479 97	1086999	483111	271750	173920	120778	88735	67937	53679	43480
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	35934	30194	25728	22184	19324	16984	15045	13420	12044	10870

Photometric Report

Rogue R3 Beam: Beam, Full Power

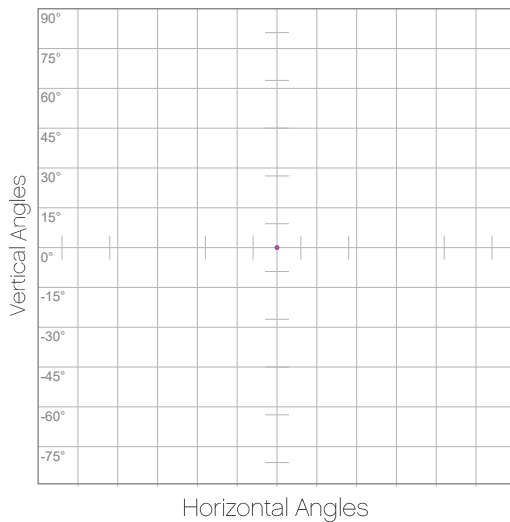
Candela Plot



Beam Angle (50%): 0.8°
Field Angle (10%): 1.6°
Cutoff Angle (3%): 2°

— Horizontal Distribution
— Vertical Distribution

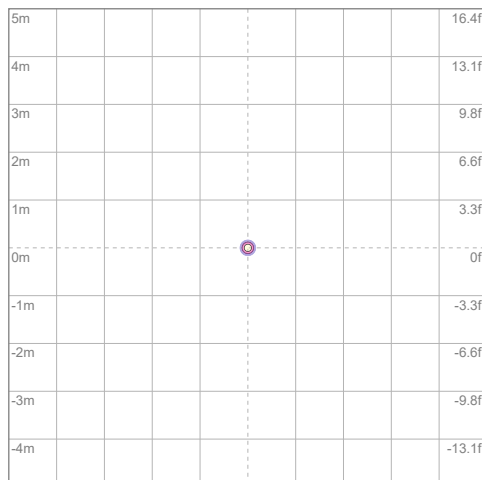
Polar Diagrams



iso-candela Diagram

10%	4680145 cd
20%	9360289 cd
30%	14040434 cd
40%	18720578 cd
50%	23400723 cd
60%	28080868 cd
70%	32761012 cd
80%	37441157 cd
90%	42121302 cd

Conditions:
Number of c-planes: 2
Candela at center: 46801446 cd



iso-illuminance Diagram

3%	14.0K lx
5%	23.4K lx
10%	46.8K lx
30%	140K lx
50%	234K lx

Conditions:
Number of c-planes: 2
Lux at center: 468K lx

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

Mounting height: 10 meters / 33 feet

Chromaticity Report

Rogue R3 Beam: Full Power

Report Summary

Measurements

Total Lumens: 30878 lm

Peak Intensity: 46801448 cd

Fixture Efficacy: 31 lm/W

Correlated Color Temperature: 7519K

Δuv : -0.0091

CRI: 81.6 CRI R9 Value: 13.3

CQS: 75.3

TLCI: 54

TM-30-18 Rf: 79.0

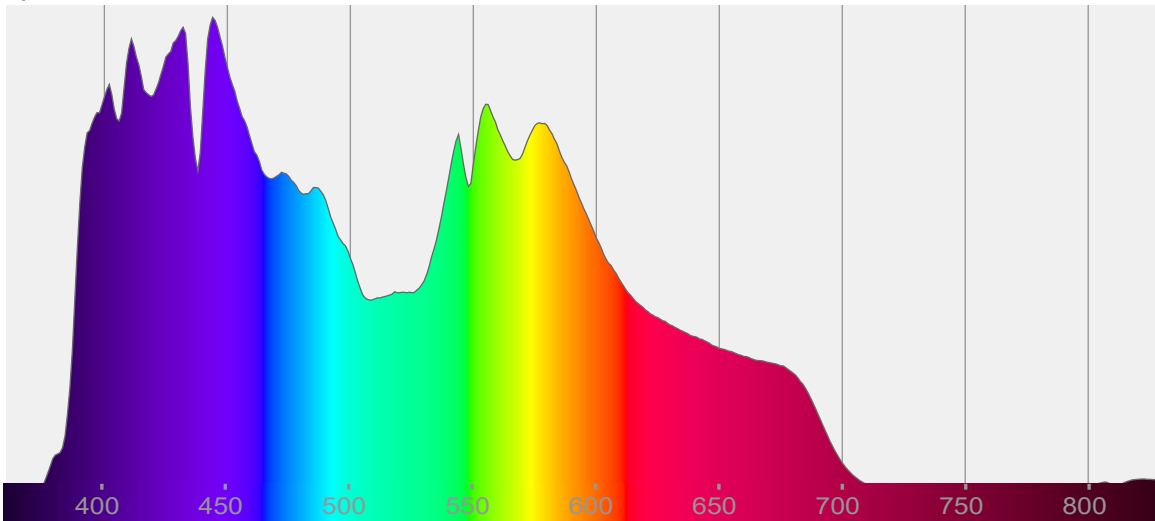
TM-30-18 Rg: 94.6

1st Dominant Wavelength: 444 nm

2nd Dominant Wavelength: 432 nm



Spectral Distribution



Tested Color

7519 K

CIE 1931 Coordinates:

X: 0.303 Y: 0.302

Color Temperature

7519 K

Light Quality

CRI: 81.6

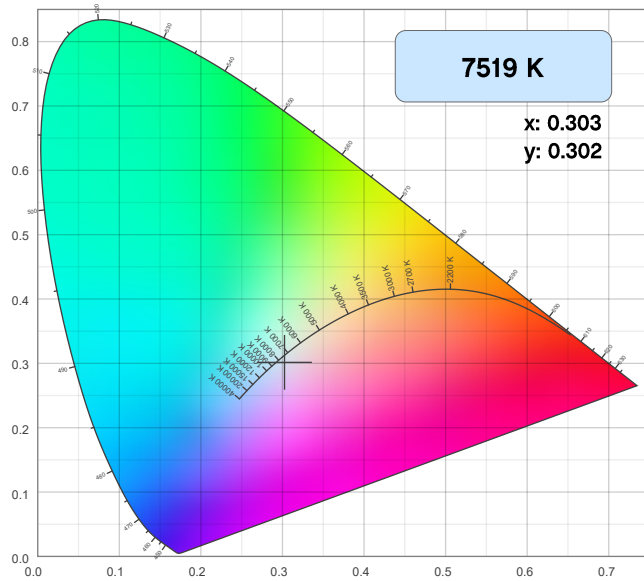
Notes:

Chromaticity Report

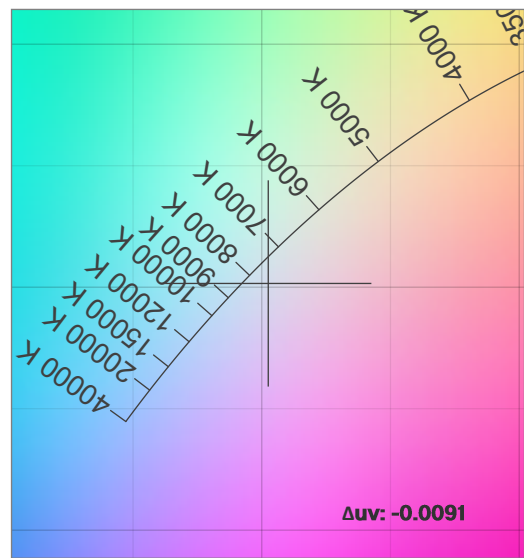
Rogue R3 Beam: Full Power

Chromaticity

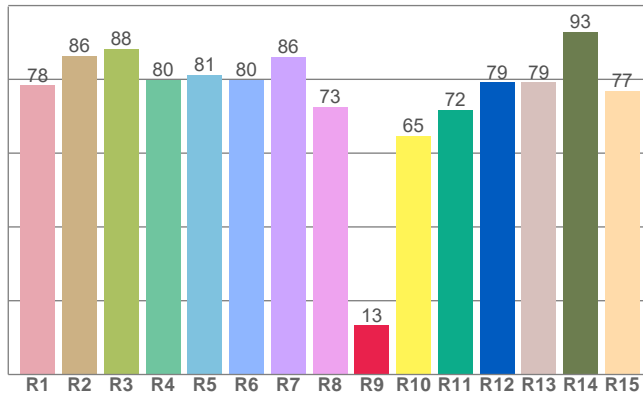
CIE 1931



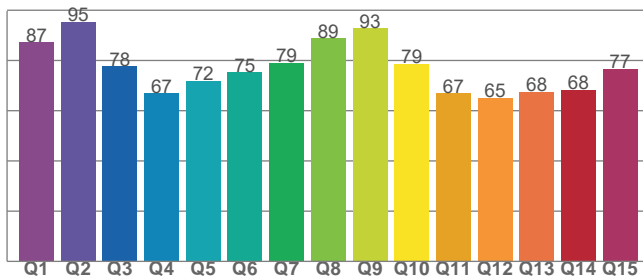
CIE 1931 - Zoom



CRI: 81.6 (R1-R8)



CQS: 75.3



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7519 K	0.303	0.302

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δ_{uv}	y	u
-0.0091	0.302	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
81.6	13.3	75.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
54	79.0	94.6

Chromaticity Report

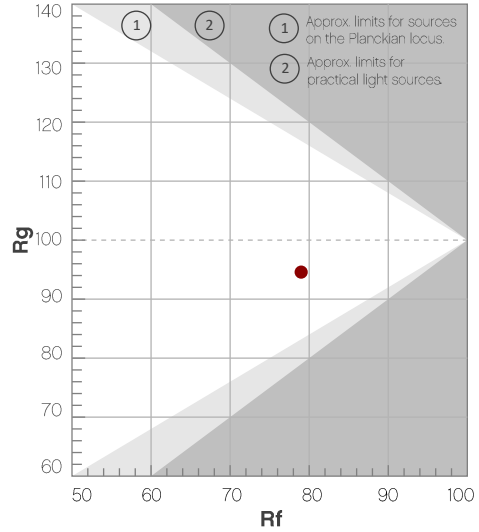
Rogue R3 Beam: Full Power

TM-30-18 Details

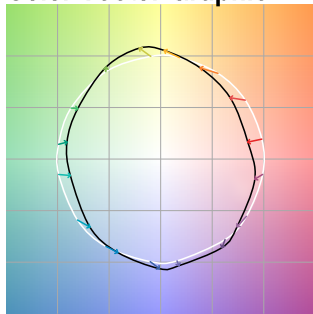
Rf 79.0
Fidelity Index (R_f)

Rg 94.6
Gamut Index (R_g)

Hue Bin	R _f	Chroma Shift	Hue Shift
1	73	-14%	0%
2	70	-11%	10%
3	69	-5%	17%
4	70	4%	16%
5	77	10%	9%
6	91	4%	-3%
7	87	-6%	-3%
8	83	-8%	-4%
9	84	-11%	3%
10	77	-6%	12%
11	69	-1%	13%
12	82	5%	10%
13	88	5%	1%
14	84	5%	-7%
15	81	-2%	-13%
16	82	-7%	-6%



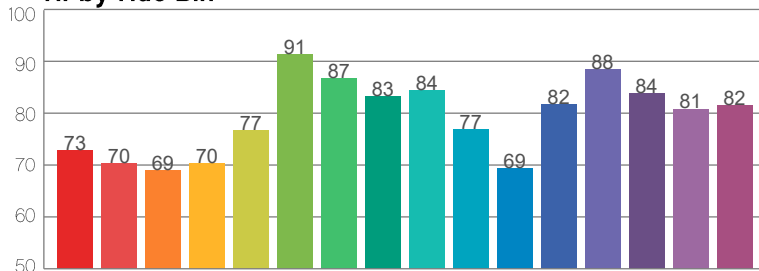
Color Vector Graphic



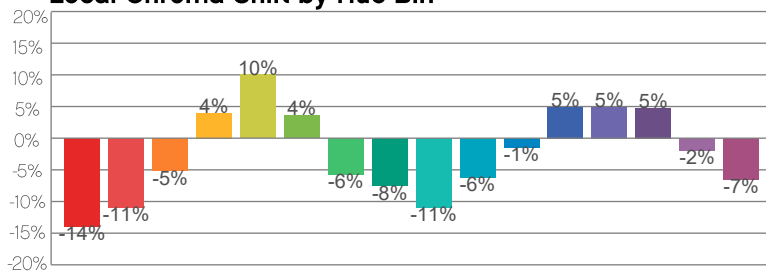
Color Distortion Graphic



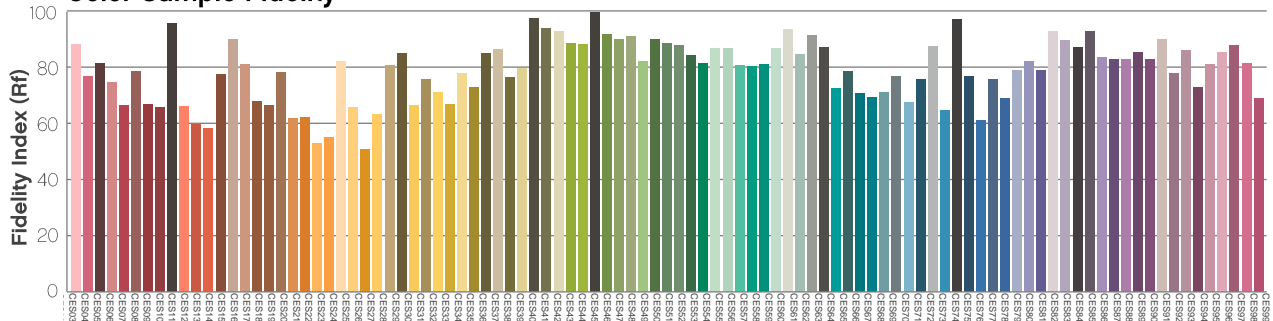
R_f by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



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

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