

PHOTOMETRICS REPORT

ROGUE

OUTCAST
1 BEAM



CHAUVET
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

Rogue Outcast 1 Beam: Beam, Full Power

Report Summary

Output

Total Lumens: 7452 lm
Peak Intensity: 14608734 cd
Illuminance @ 5m: 584349 lux
Fixture Efficacy: 18 lm/W

Optical

Horizontal Beam Angle (50%): 1.2°
Vertical Beam Angle (50%): 1.2°
Horizontal Field Angle (10%): 2.1°
Vertical Field Angle (10%): 2.1°
Horizontal Cutoff Angle (3%): 3°
Vertical Cutoff Angle (3%): 3°

Conditions

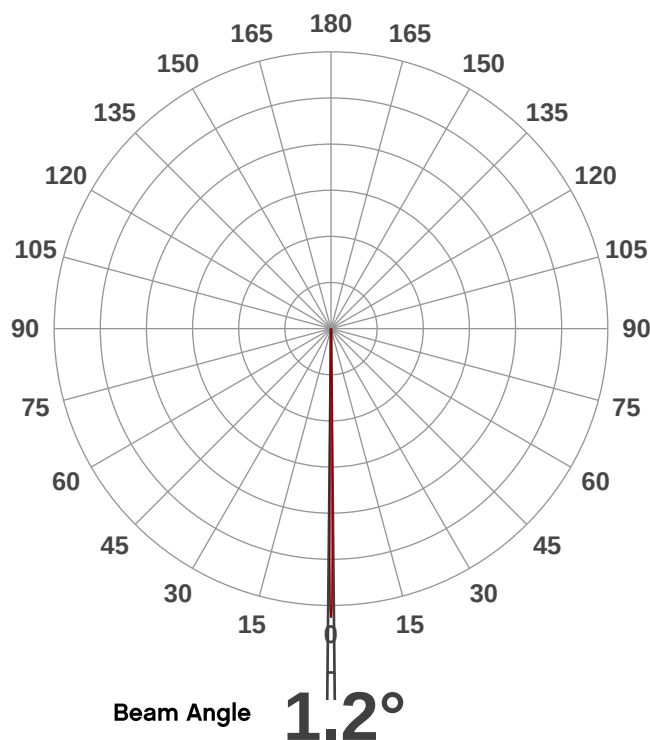
AC Supply: 117 V, 60 Hz
Power: 421.11 W
Current: 3.59 A
Power Factor: 0.99



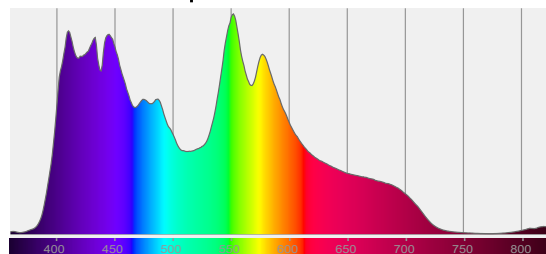
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/7/2020 to LM-63-2002 Standards.

Overall Measurement

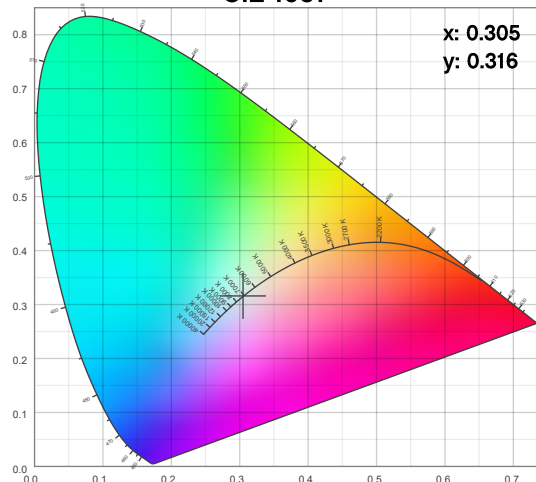
Angular Beam Distribution



Spectral Distribution



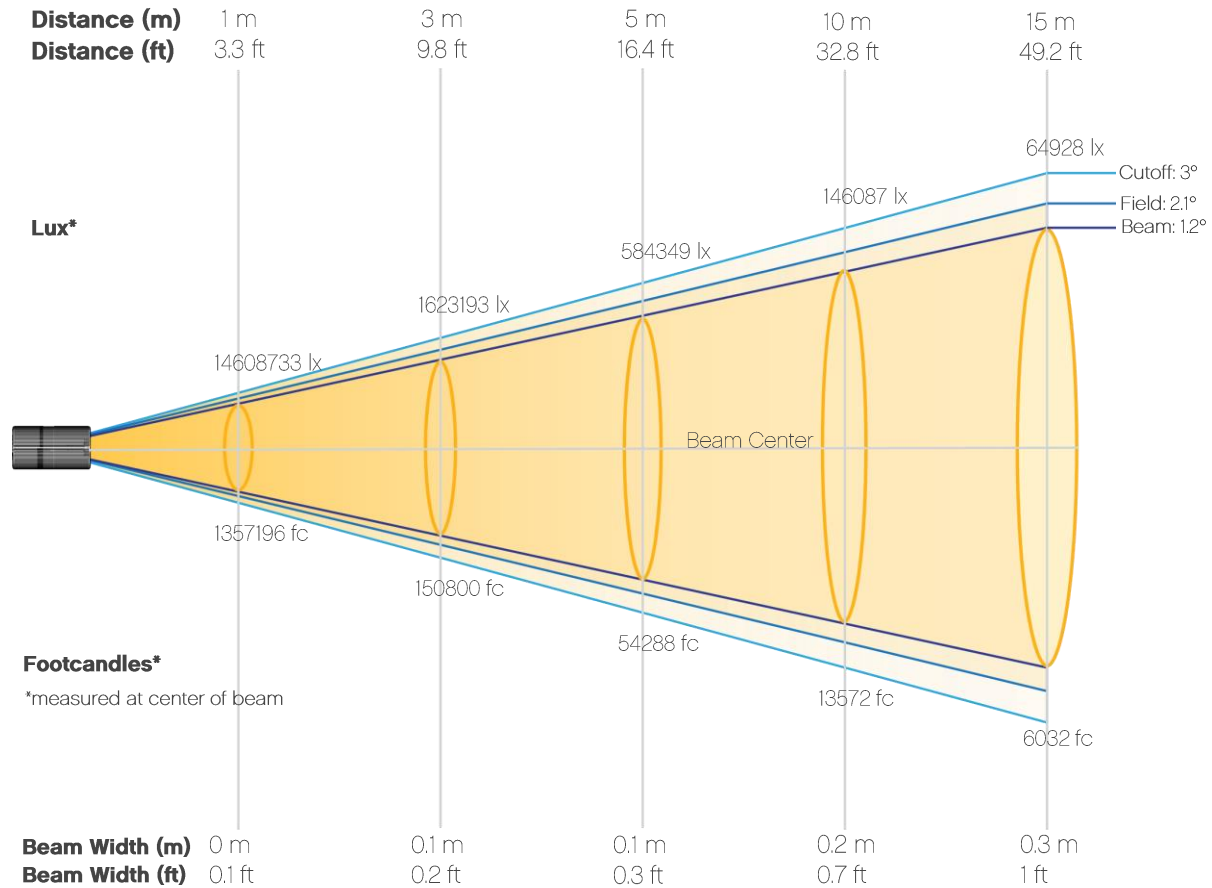
CIE 1931



Photometric Report

Rogue Outcast 1 Beam: Beam, Full Power

Beam Details



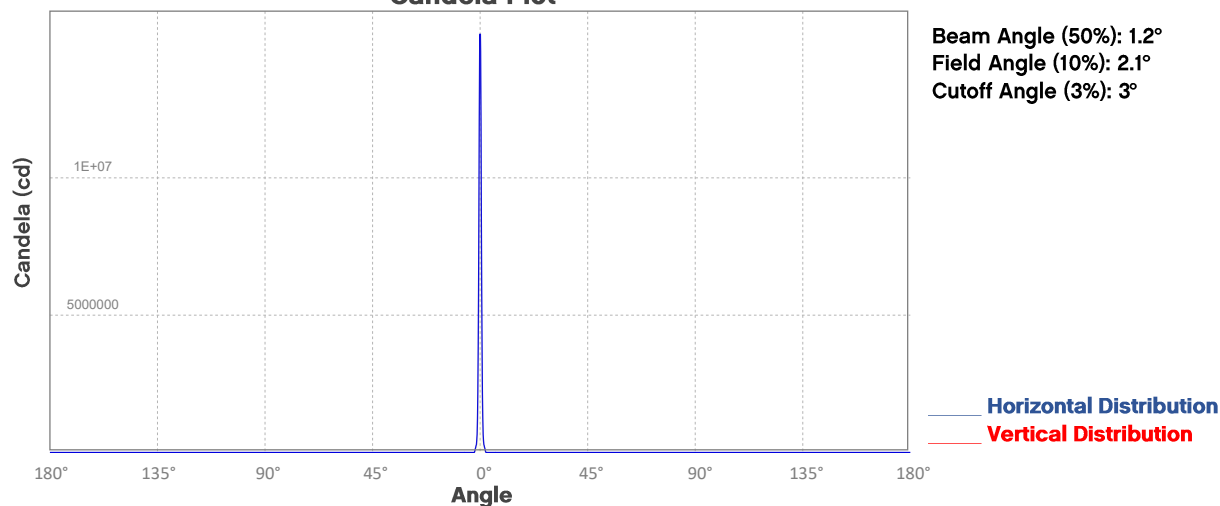
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	14608733	3652183	1623193	913046	584349	405798	298137	228261	180355	146087
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	120733	101450	86442	74534	64928	57065	50549	45089	40467	36522
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1357196	339299	150800	84825	54288	37700	27698	21206	16756	13572
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	11216	9425	8031	6924	6032	5302	4696	4189	3760	3393

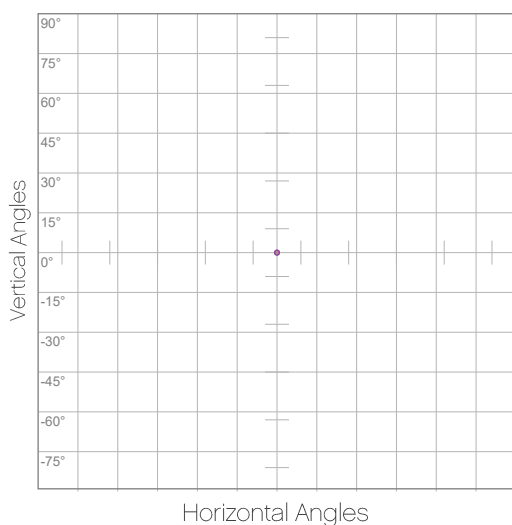
Photometric Report

Rogue Outcast 1 Beam: Beam, Full Power

Candela Plot



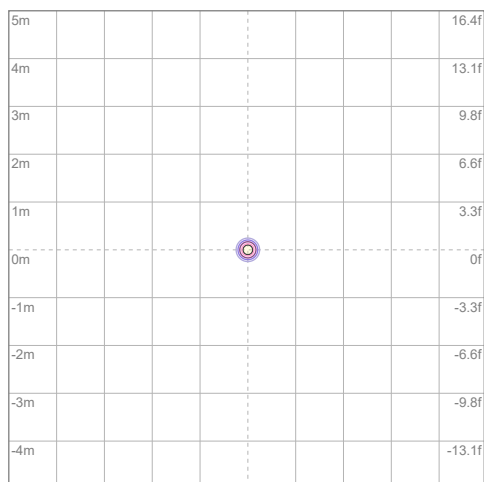
Polar Diagrams



iso-candela Diagram

10%	1460873 cd
20%	2921747 cd
30%	4382620 cd
40%	5843493 cd
50%	7304367 cd
60%	8765240 cd
70%	10226113 cd
80%	11686987 cd
90%	13147860 cd

Conditions:
Number of c-planes: 2
Candela at center: 14608733 cd



iso-illuminance Diagram

3%	4383 lx
5%	7304 lx
10%	14.6K lx
30%	43.8K lx
50%	73.0K lx

Conditions:
Number of c-planes: 2
Lux at center: 146K 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 Outcast 1 Beam: Beam, Full Power

Report Summary

Measurements

Total Lumens: 7452 lm

Peak Intensity: 14608734 cd

Fixture Efficacy: 18 lm/W

Correlated Color Temperature: 7115K

Δuv : -0.0026

CRI: 73.9 CRI R9 Value: -20.6

CQS: 70.0

TLCI: 44

TM-30-18 Rf: 73.4

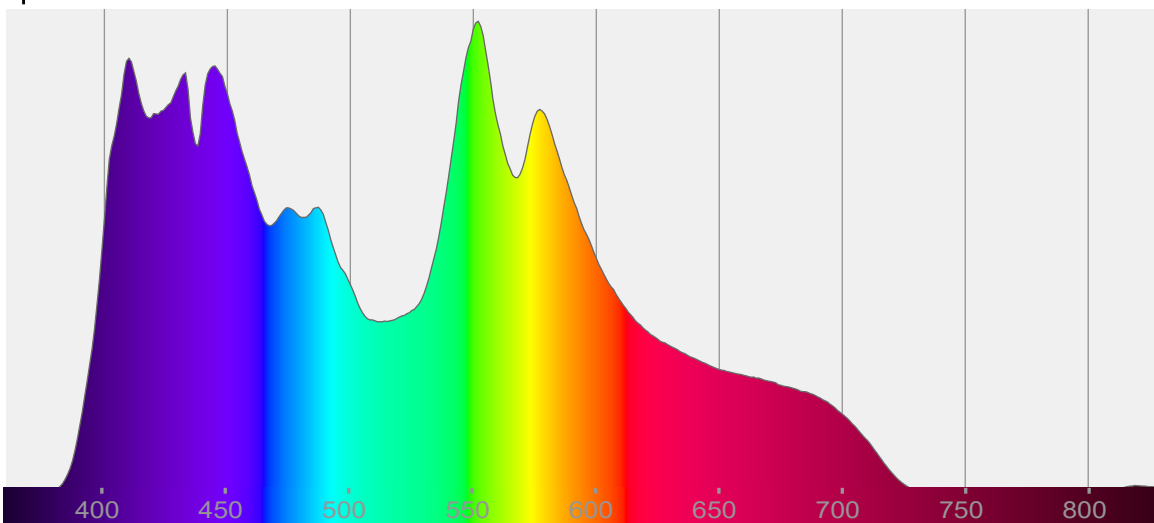
TM-30-18 Rg: 90.6

1st Dominant Wavelength: 552 nm

2nd Dominant Wavelength: 410 nm



Spectral Distribution



Tested Color

7115 K

CIE 1931 Coordinates:

X: 0.305 Y: 0.316

Color Temperature

7115 K

Light Quality

CRI: 73.9

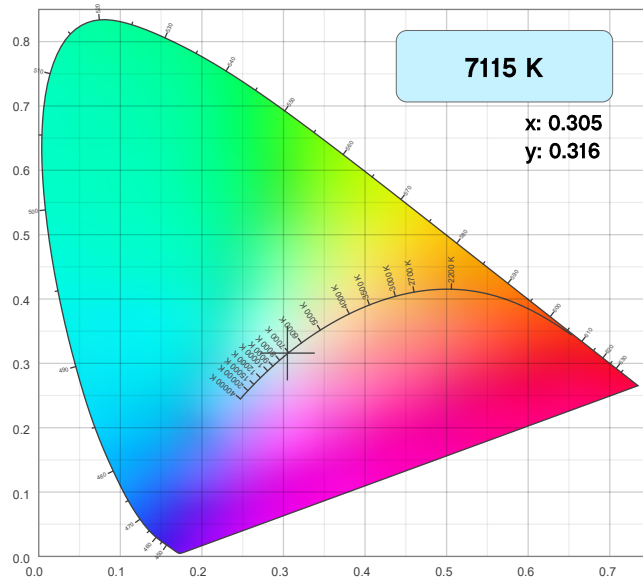
Notes:

Chromaticity Report

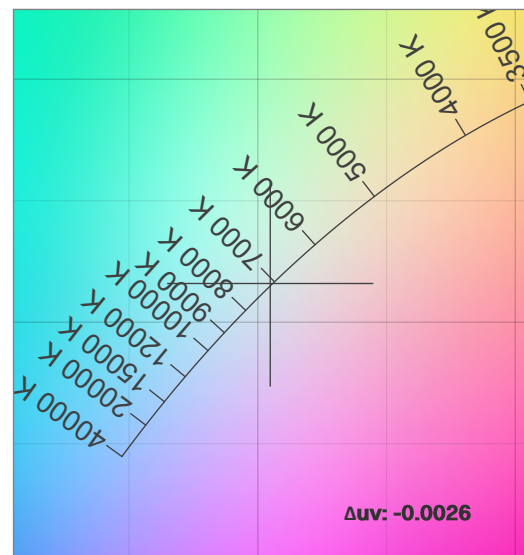
Rogue Outcast 1 Beam: Beam, Full Power

Chromaticity

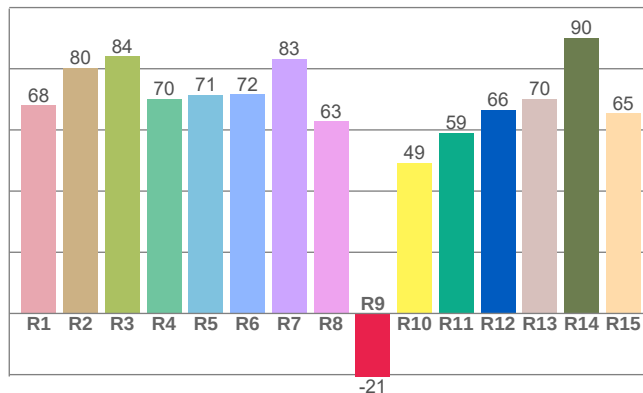
CIE 1931



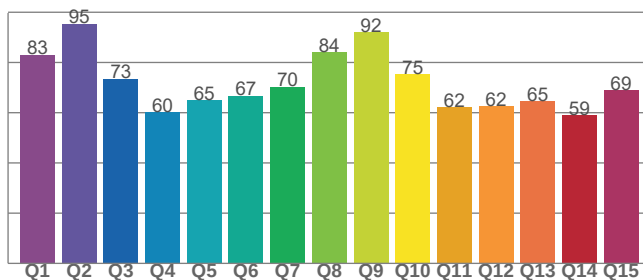
CIE 1931 - Zoom



CRI: 73.9 (R1-R8)



CQS: 70.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7115 K	0.305	0.316

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0026	0.316	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.9	-20.6	70.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
44	73.4	90.6

Chromaticity Report

Rogue Outcast 1 Beam: Beam, Full Power

TM-30-18 Details

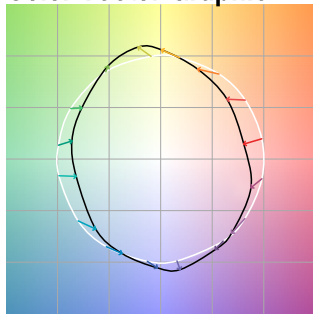
Rf 73.4

Fidelity Index
(R_f)

Rg 90.6

Gamut Index (R_g)

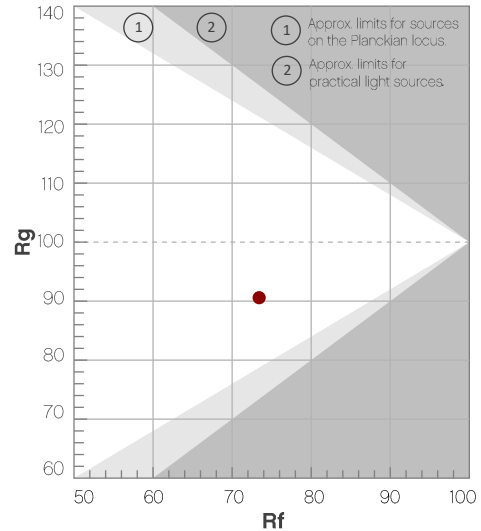
Color Vector Graphic



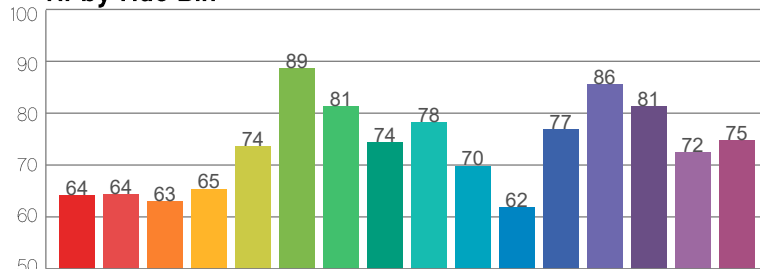
Color Distortion Graphic



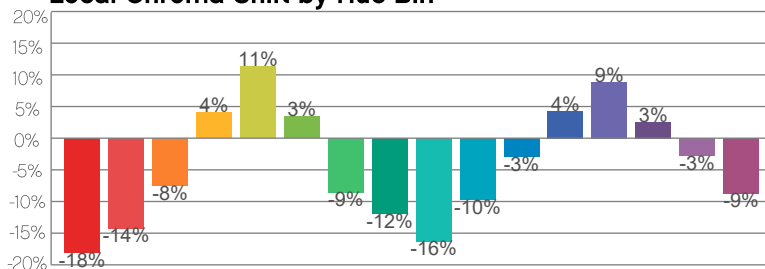
Hue Bin	R _f	Chroma Shift	Hue Shift
1	64	-18%	-2%
2	64	-14%	11%
3	63	-8%	20%
4	65	4%	19%
5	74	11%	11%
6	89	3%	-5%
7	81	-9%	-6%
8	74	-12%	-7%
9	78	-16%	4%
10	70	-10%	16%
11	62	-3%	16%
12	77	4%	11%
13	86	9%	1%
14	81	3%	-11%
15	72	-3%	-19%
16	75	-9%	-11%



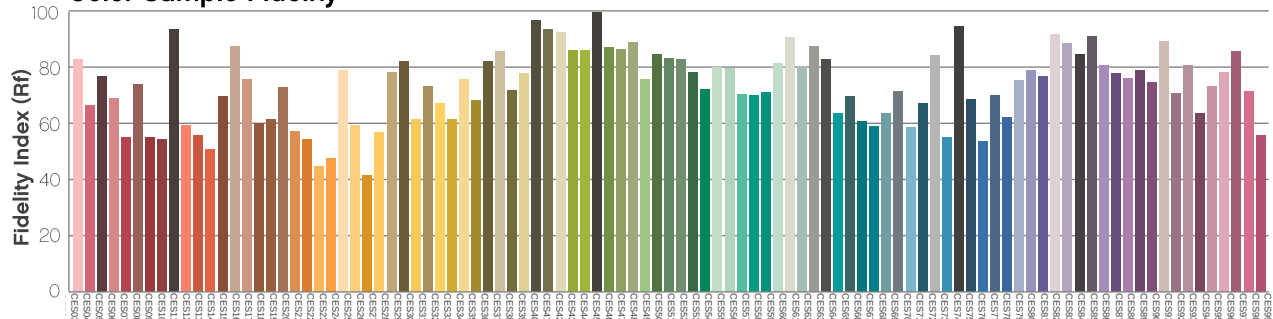
R_f by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Contact Us

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