

PHOTOMETRICS REPORT

ROGUE

R3
SPOT



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 R3 Spot: Full Flood, Full Power

Report Summary

Output

Total Lumens: 12800 lm
Peak Intensity: 45081 cd
Illuminance @ 5m: 1803 lux
Fixture Efficacy: 31 lm/W

Optical

Horizontal Beam Angle (50%): 36.1°
Vertical Beam Angle (50%): 36.1°
Horizontal Field Angle (10%): 39.5°
Vertical Field Angle (10%): 39.5°
Horizontal Cutoff Angle (3%): 42.5°
Vertical Cutoff Angle (3%): 42.5°



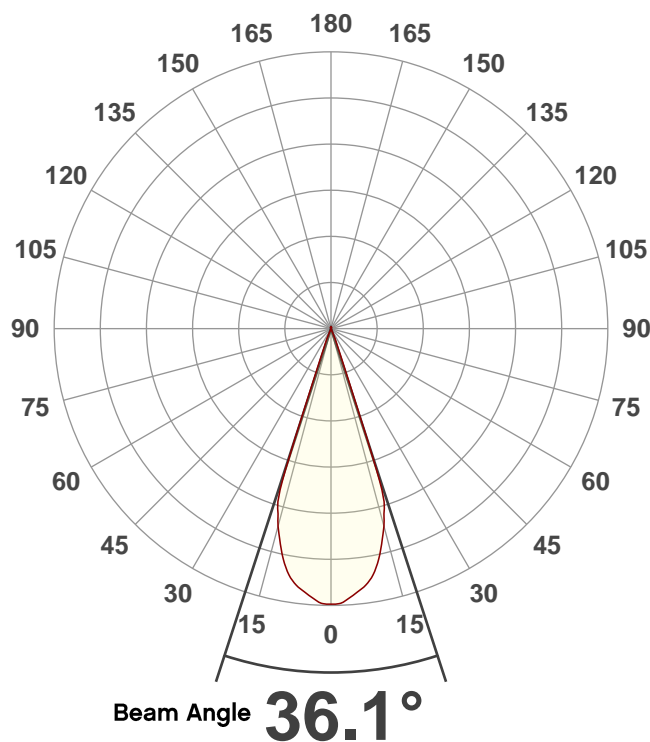
Conditions

AC Supply: 118 V, 60 Hz
Power: 409.75 W
Current: 3.46 A
Power Factor: 0.99

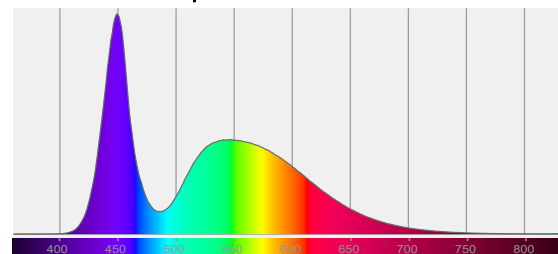
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/1/2020 to LM-63-2002 Standards.

Overall Measurement

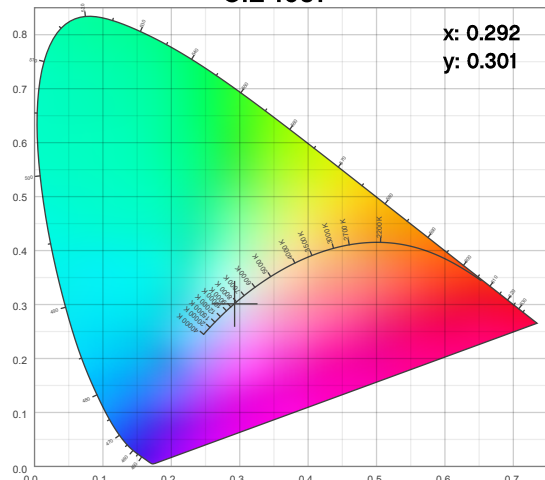
Angular Beam Distribution



Spectral Distribution



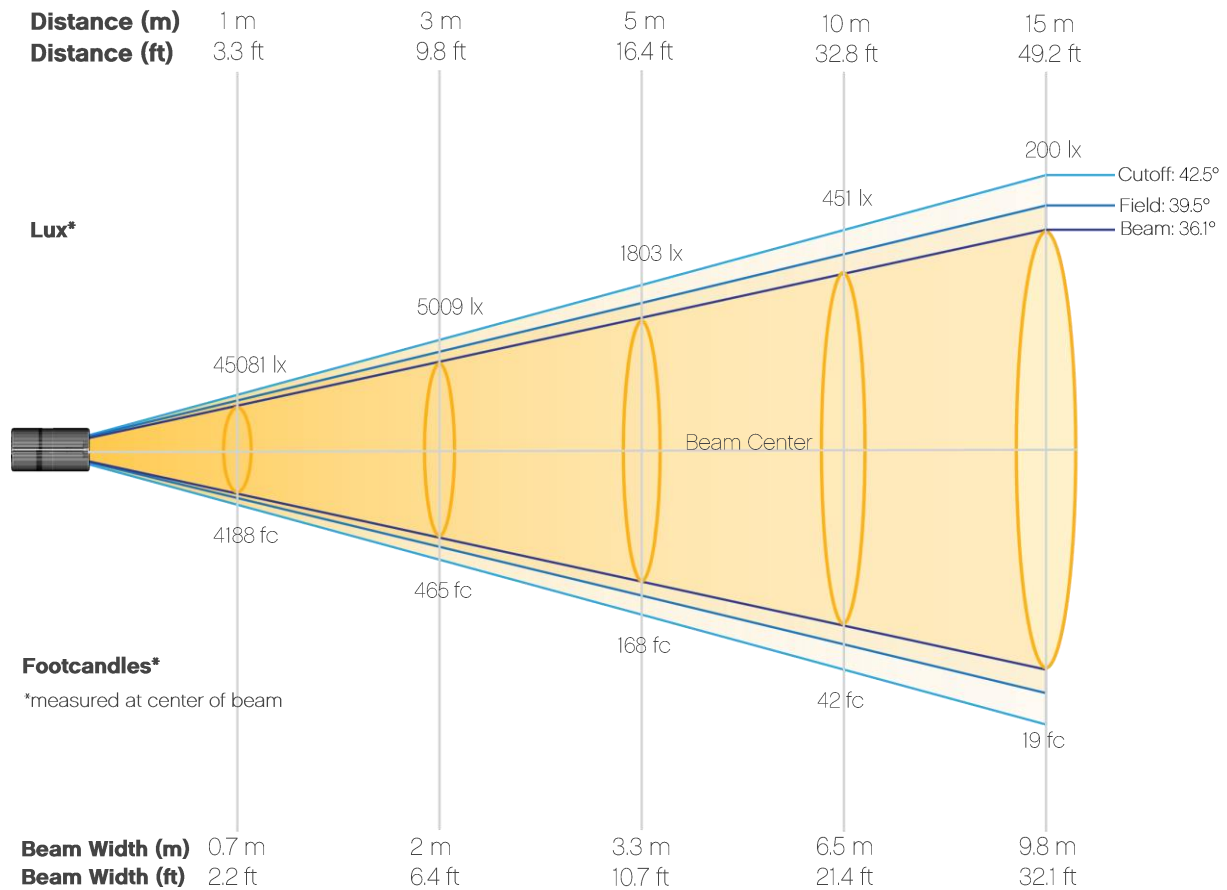
CIE 1931



Photometric Report

Rogue R3 Spot: Full Flood, Full Power

Beam Details



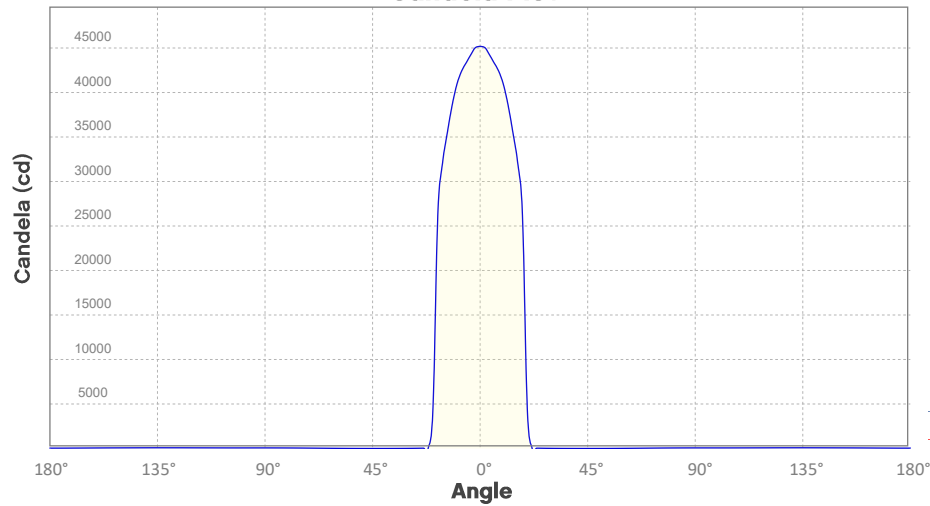
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	45081	11270	5009	2818	1803	1252	920	704	557	451
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	373	313	267	230	200	176	156	139	125	113
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	4188	1047	465	262	168	116	85	65	52	42
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	35	29	25	21	19	16	14	13	12	10

Photometric Report

Rogue R3 Spot: Full Flood, Full Power

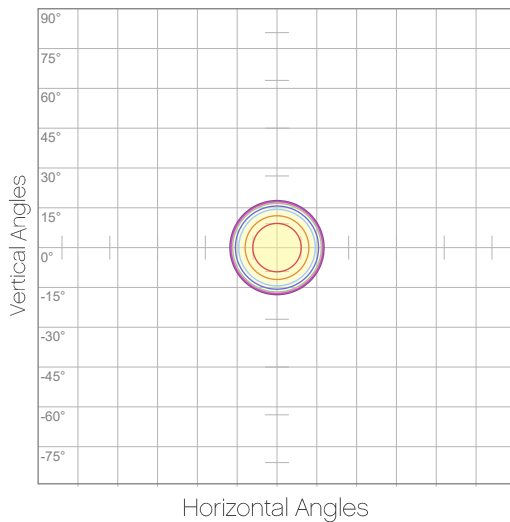
Candela Plot



Beam Angle (50%): 36.1°
 Field Angle (10%): 39.5°
 Cutoff Angle (3%): 42.5°

— Horizontal Distribution
 — Vertical Distribution

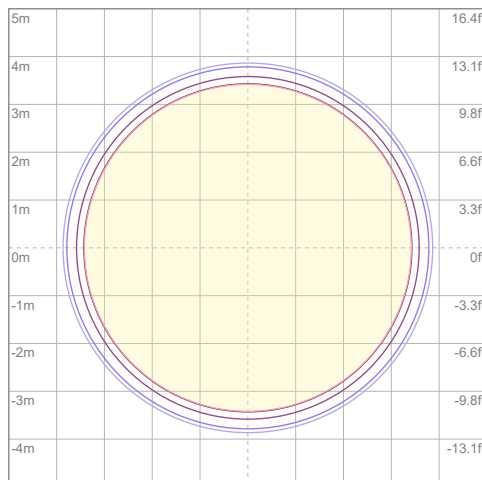
Polar Diagrams



iso-candela Diagram

10%	4508 cd
20%	9016 cd
30%	13524 cd
40%	18033 cd
50%	22541 cd
60%	27049 cd
70%	31557 cd
80%	36065 cd
90%	40573 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 45081 cd



iso-illuminance Diagram

3%	13.5 lx
5%	22.5 lx
10%	45.1 lx
30%	135 lx
50%	225 lx

Conditions:
 Number of c-planes: 2
 Lux at center: 451 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Rogue R3 Spot: Full Spot, Full Power

Report Summary

Output

Total Lumens: 11380 lm
Peak Intensity: 324931 cd
Illuminance @ 5m: 12997 lux
Fixture Efficacy: 30 lm/W

Optical

Horizontal Beam Angle (50%): 11.9°
Vertical Beam Angle (50%): 11.9°
Horizontal Field Angle (10%): 14.9°
Vertical Field Angle (10%): 14.9°
Horizontal Cutoff Angle (3%): 15.5°
Vertical Cutoff Angle (3%): 15.5°



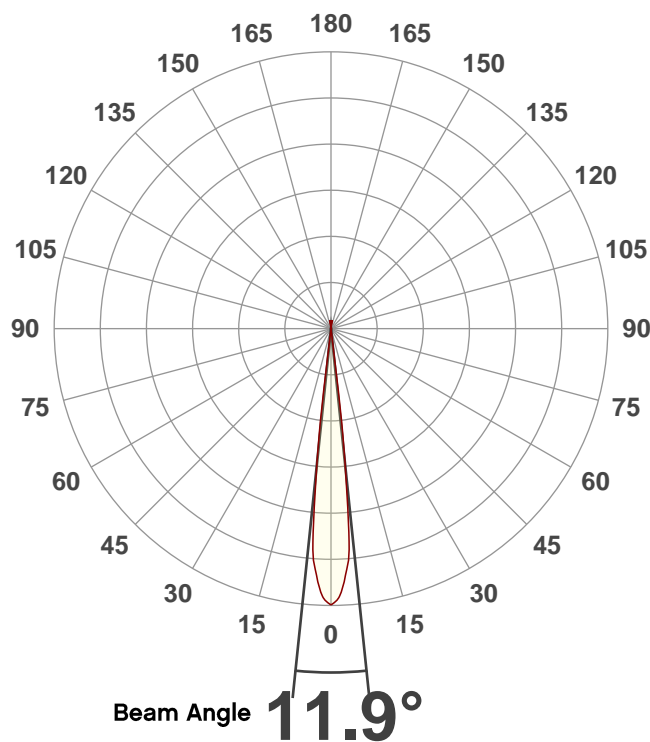
Conditions

AC Supply: 118 V, 60 Hz
Power: 380.69 W
Current: 3.22 A
Power Factor: 0.99

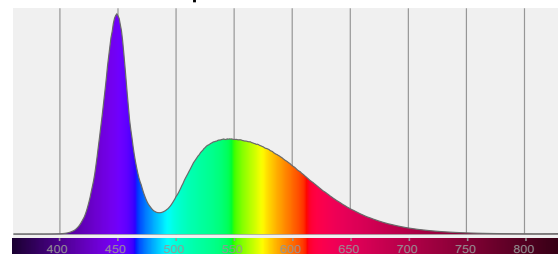
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/1/2020 to LM-63-2002 Standards.

Overall Measurement

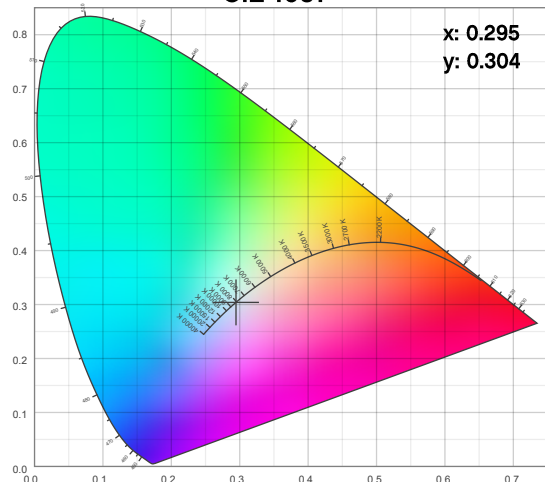
Angular Beam Distribution



Spectral Distribution



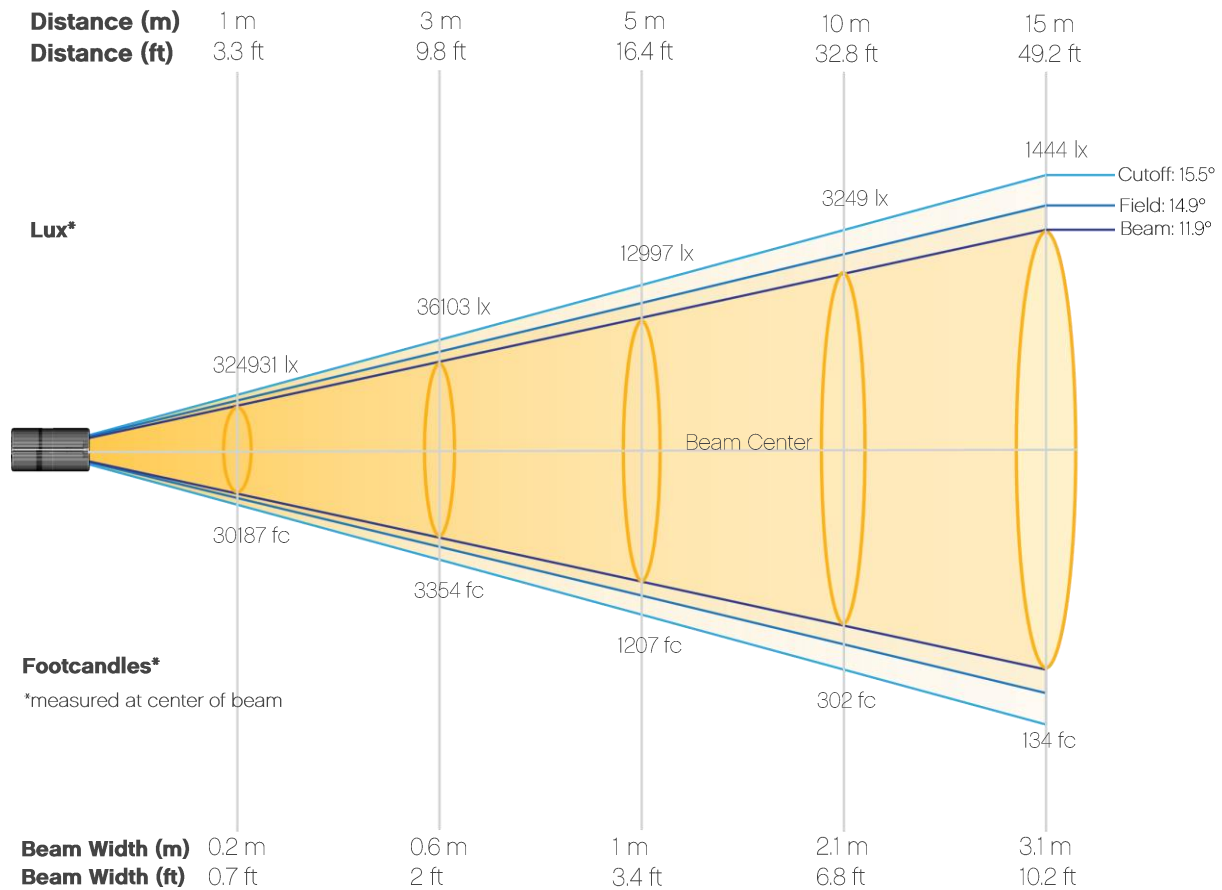
CIE 1931



Photometric Report

Rogue R3 Spot: Full Spot, Full Power

Beam Details



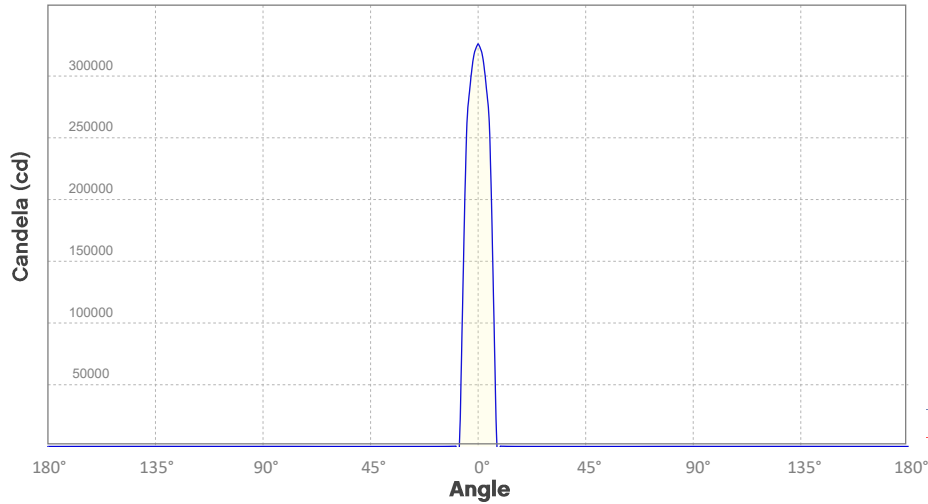
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	324931	81233	36103	20308	12997	9026	6631	5077	4011	3249
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	2685	2256	1923	1658	1444	1269	1124	1003	900	812
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	30187	7547	3354	1887	1207	839	616	472	373	302
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	249	210	179	154	134	118	104	93	84	75

Photometric Report

Rogue R3 Spot: Full Spot, Full Power

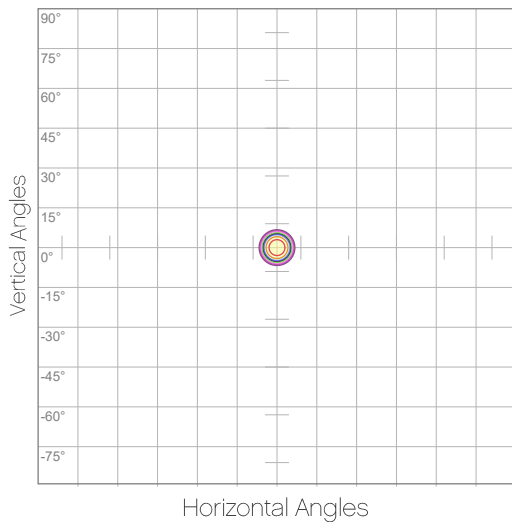
Candela Plot



Beam Angle (50%): 11.9°
Field Angle (10%): 14.9°
Cutoff Angle (3%): 15.5°

— Horizontal Distribution
— Vertical Distribution

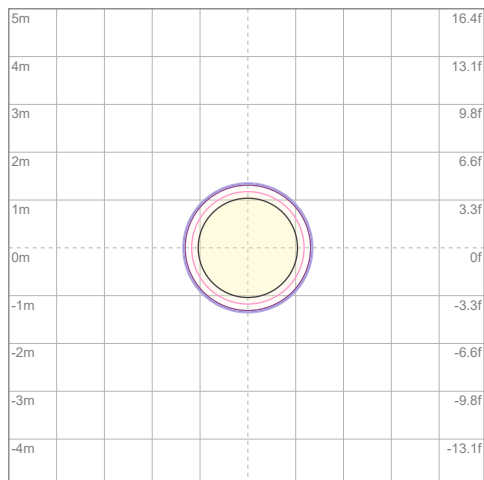
Polar Diagrams



iso-candela Diagram

10%	32493 cd
20%	64986 cd
30%	97479 cd
40%	129972 cd
50%	162465 cd
60%	194959 cd
70%	227452 cd
80%	259945 cd
90%	292438 cd

Conditions:
Number of c-planes: 2
Candela at center: 324931 cd



iso-illuminance Diagram

3%	97.5 lx
5%	162 lx
10%	325 lx
30%	975 lx
50%	1625 lx

Conditions:
Number of c-planes: 2
Lux at center: 3249 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Rogue R3 Spot: 50% Zoom, Full Power

Report Summary

Output

Total Lumens: 12286 lm
Peak Intensity: 118523 cd
Illuminance @ 5m: 4741 lux
Fixture Efficacy: 30 lm/W

Optical

Horizontal Beam Angle (50%): 20.6°
Vertical Beam Angle (50%): 20.6°
Horizontal Field Angle (10%): 24.8°
Vertical Field Angle (10%): 24.8°
Horizontal Cutoff Angle (3%): 25.7°
Vertical Cutoff Angle (3%): 25.7°



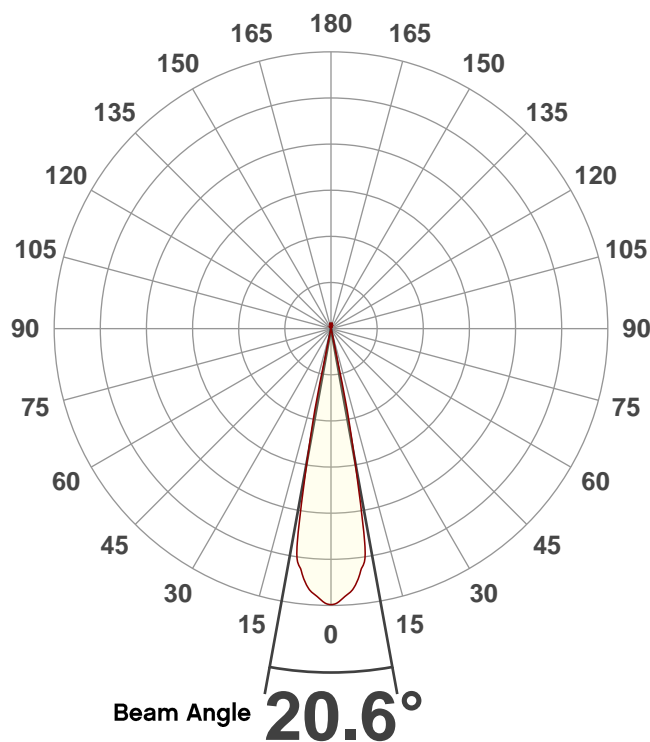
Conditions

AC Supply: 118 V, 60 Hz
Power: 413.07 W
Current: 3.50 A
Power Factor: 0.99

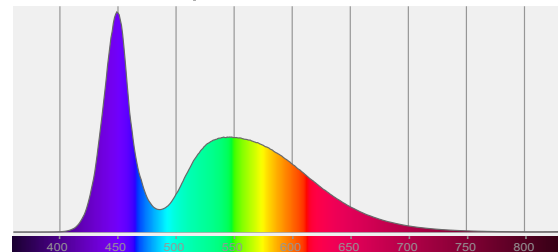
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Overall Measurement

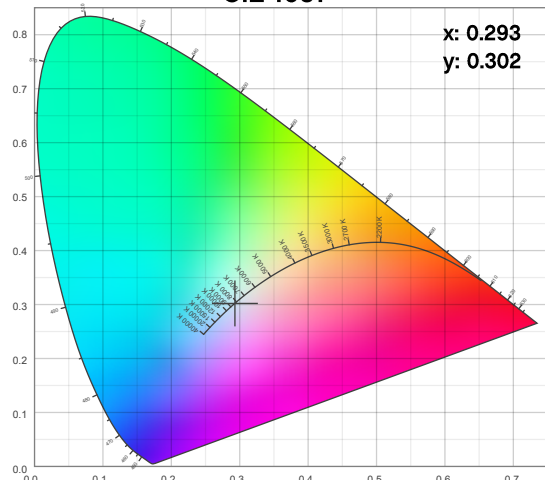
Angular Beam Distribution



Spectral Distribution



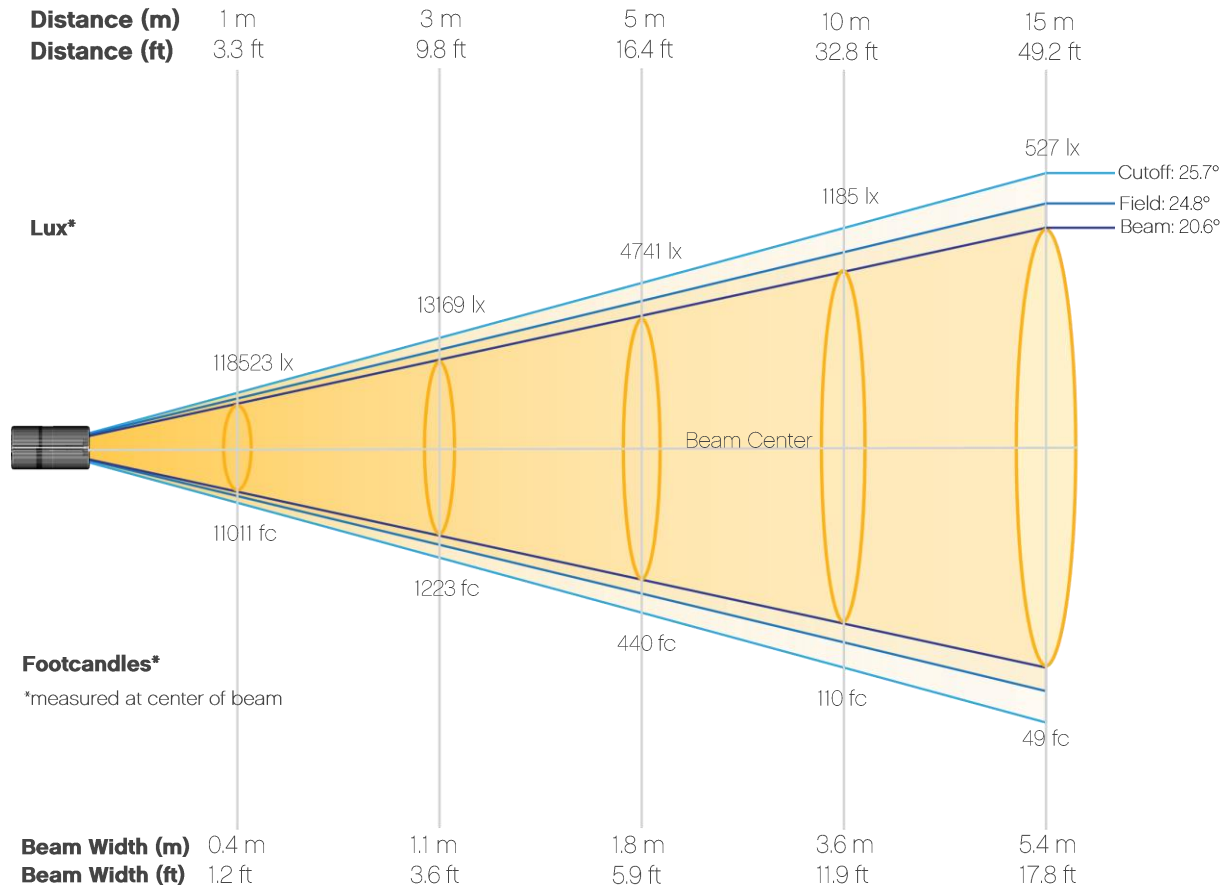
CIE 1931



Photometric Report

Rogue R3 Spot: 50% Zoom, Full Power

Beam Details

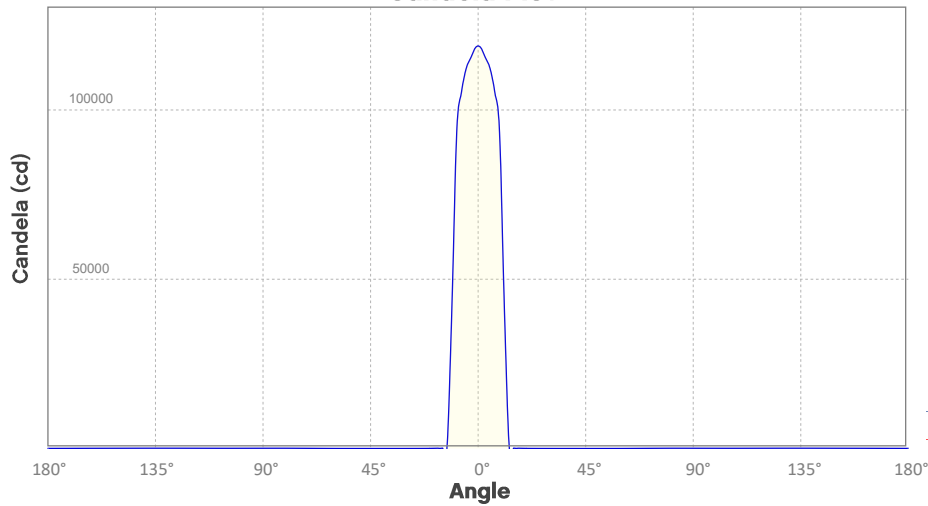


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	118523	29631	13169	7408	4741	3292	2419	1852	1463	1185
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	980	823	701	605	527	463	410	366	328	296
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	11011	2753	1223	688	440	306	225	172	136	110
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	91	76	65	56	49	43	38	34	31	28

Photometric Report

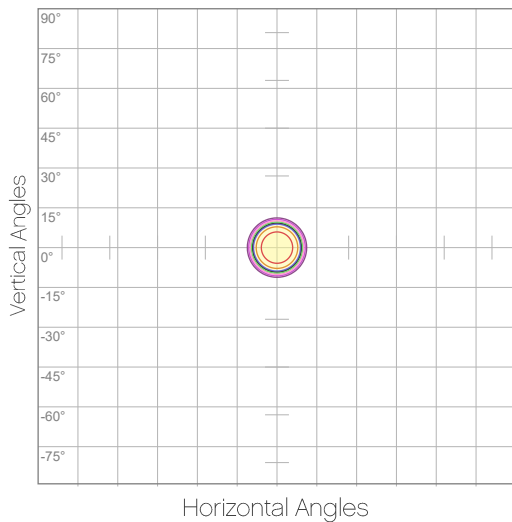
Rogue R3 Spot: 50% Zoom, Full Power
Candela Plot



Beam Angle (50%): 20.6°
Field Angle (10%): 24.8°
Cutoff Angle (3%): 25.7°

— Horizontal Distribution
— Vertical Distribution

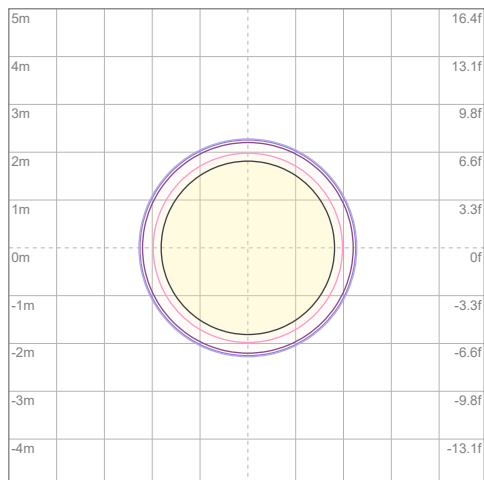
Polar Diagrams



iso-candela Diagram

10%	11852 cd
20%	23705 cd
30%	35557 cd
40%	47409 cd
50%	59261 cd
60%	71114 cd
70%	82966 cd
80%	94818 cd
90%	106671 cd

Conditions:
Number of c-planes: 2
Candela at center: 118523 cd



iso-illuminance Diagram

3%	35.6 lx
5%	59.3 lx
10%	119 lx
30%	356 lx
50%	593 lx

Conditions:
Number of c-planes: 2
Lux at center: 1185 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 Spot: Full Flood, Full Power

Report Summary

Measurements

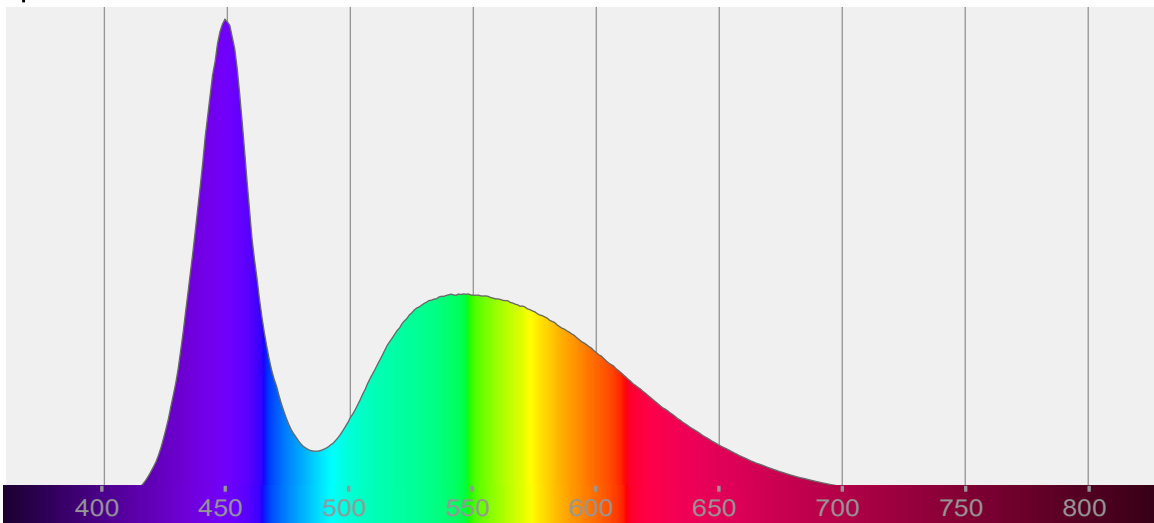
Total Lumens: 12800 lm
Peak Intensity: 45081 cd
Fixture Efficacy: 31 lm/W

Correlated Color Temperature: 8324K
 Δuv : -0.0034

CRI: 73.1 CRI R9 Value: -18.0
CQS: 69.4
TLCI: 49
TM-30-18 Rf: 68.5
TM-30-18 Rg: 93.2
1st Dominant Wavelength: 449 nm
2nd Dominant Wavelength: 546 nm



Spectral Distribution



Tested Color

8324 K

CIE 1931 Coordinates:
X: 0.292 Y: 0.301

Color Temperature

8324 K

Light Quality

CRI: 73.1

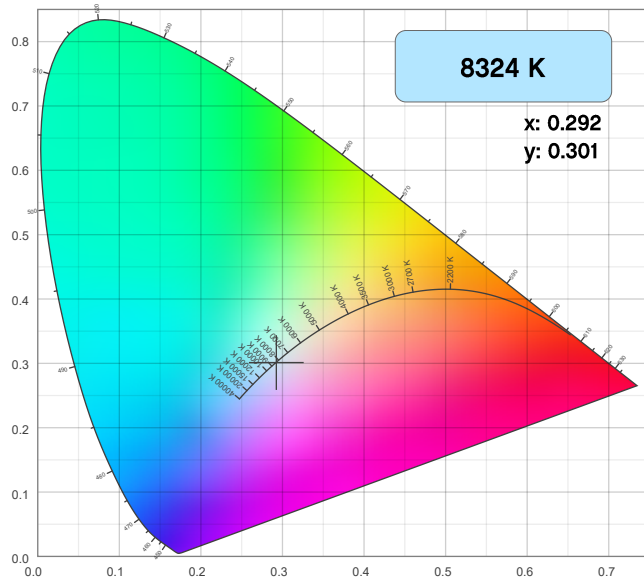
Notes:

Chromaticity Report

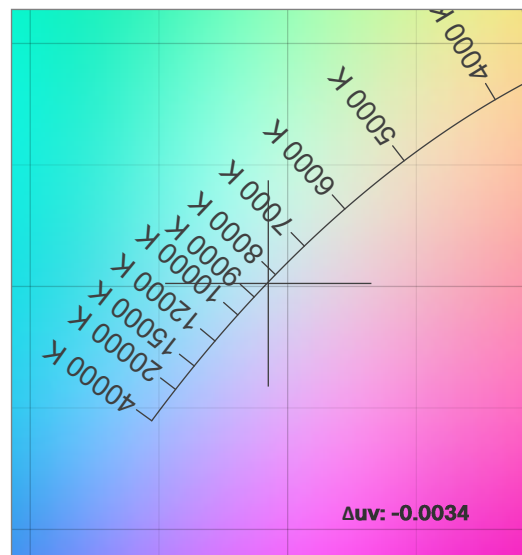
Rogue R3 Spot: Full Flood, Full Power

Chromaticity

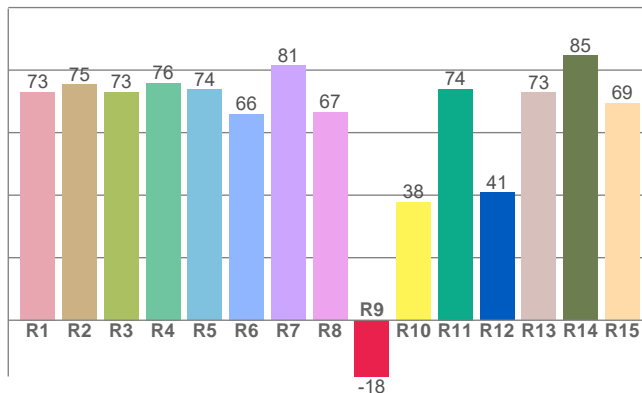
CIE 1931



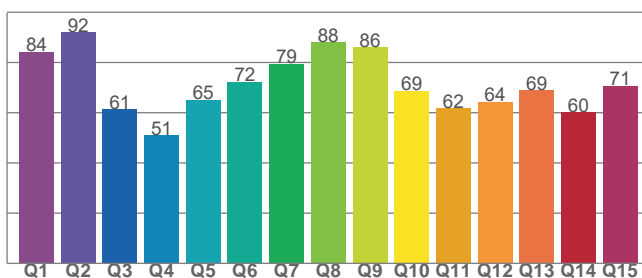
CIE 1931 - Zoom



CRI: 73.1 (R1-R8)



CQS: 69.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8324 K	0.292	0.301

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0034	0.301	0.194

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.1	-18.0	69.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
49	68.5	93.2

Chromaticity Report

Rogue R3 Spot: Full Flood, Full Power

TM-30-18 Details

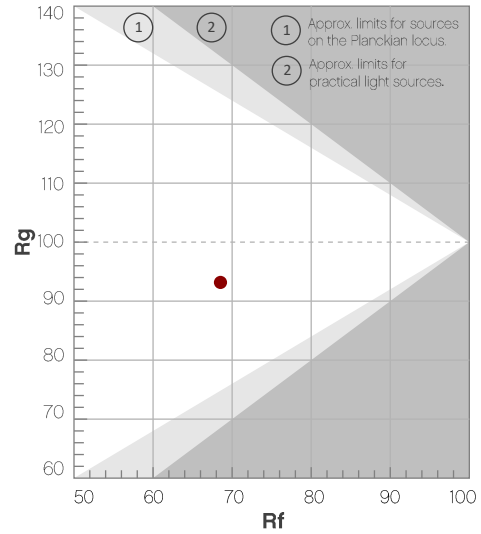
Rf 68.5

Fidelity Index
(R_f)

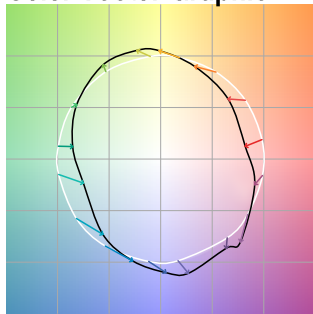
Rg 93.2

Gamut Index (R_g)

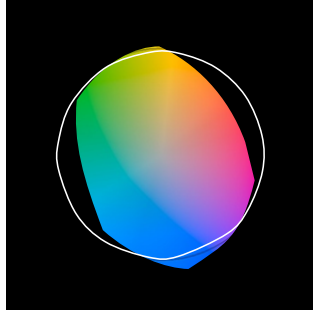
Hue Bin	R _f	Chroma Shift	Hue Shift
1	65	-17%	-3%
2	67	-13%	10%
3	62	-7%	20%
4	62	3%	21%
5	73	8%	12%
6	85	7%	-1%
7	90	-3%	-5%
8	73	-14%	-2%
9	72	-22%	13%
10	54	-13%	27%
11	34	-3%	30%
12	69	7%	18%
13	77	14%	7%
14	79	8%	-6%
15	66	9%	-26%
16	77	-6%	-10%



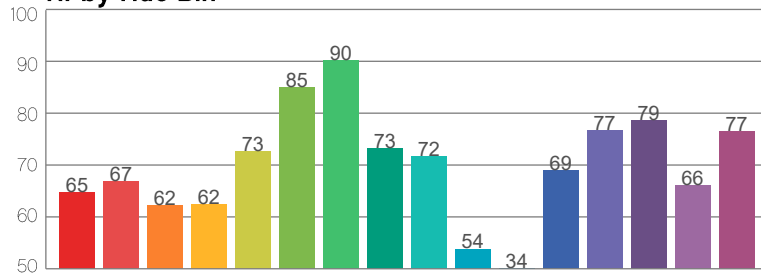
Color Vector Graphic



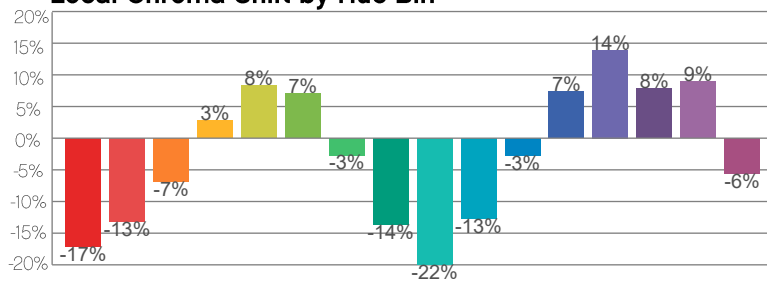
Color Distortion Graphic



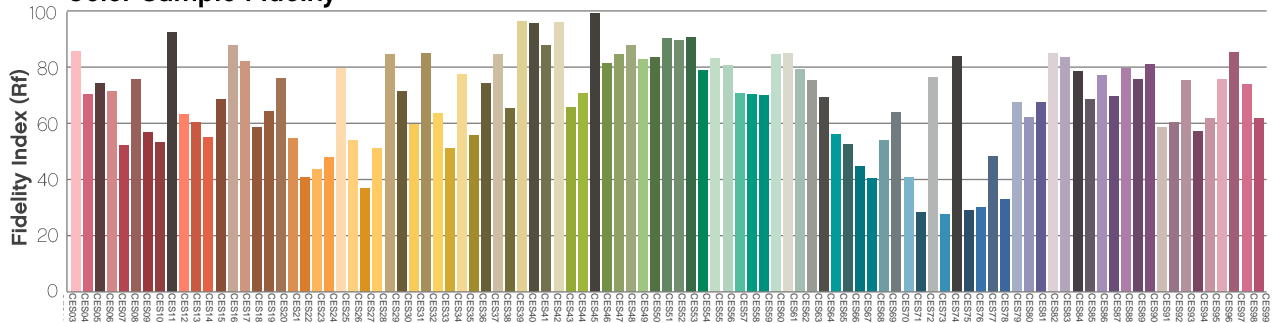
R_f by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Rogue R3 Spot: Full Spot, Full Power

Report Summary

Measurements

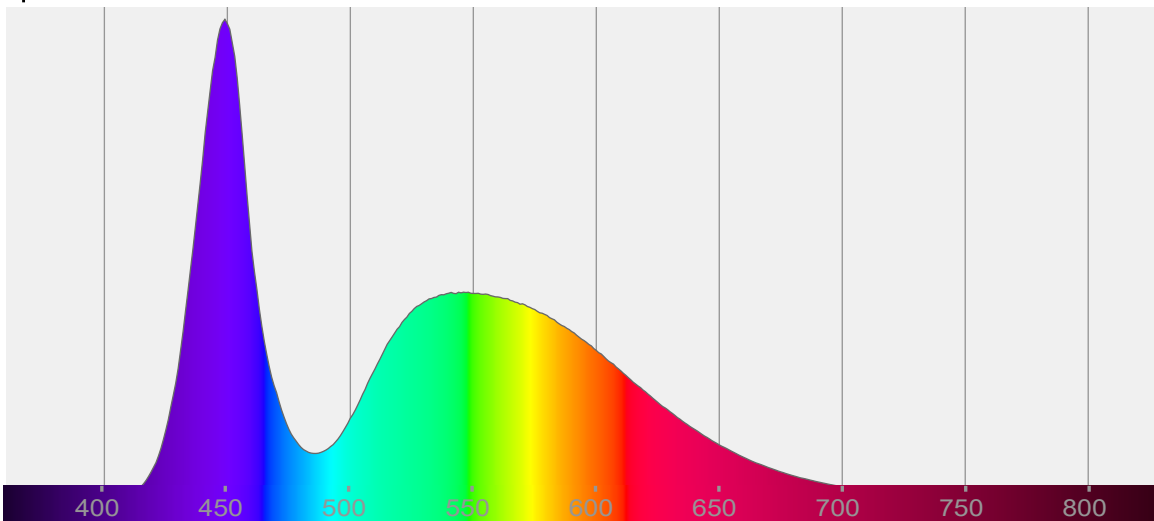
Total Lumens: 11380 lm
Peak Intensity: 324931 cd
Fixture Efficacy: 30 lm/W

Correlated Color Temperature: 8081K
 Δuv : -0.0032

CRI: 72.6 CRI R9 Value: -20.4
CQS: 69.1
TLCI: 49
TM-30-18 Rf: 68.1
TM-30-18 Rg: 93.2
1st Dominant Wavelength: 449 nm
2nd Dominant Wavelength: 546 nm



Spectral Distribution



Tested Color

8081 K

CIE 1931 Coordinates:
X: 0.295 Y: 0.304

Color Temperature

8081 K

Light Quality

CRI: 72.6

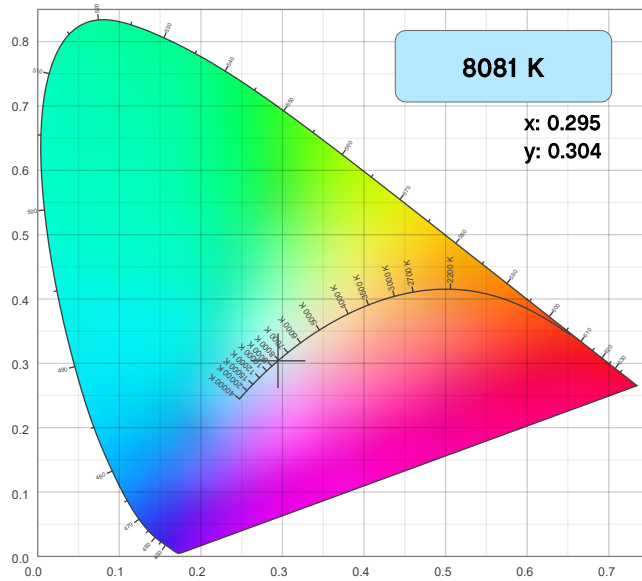
Notes:

Chromaticity Report

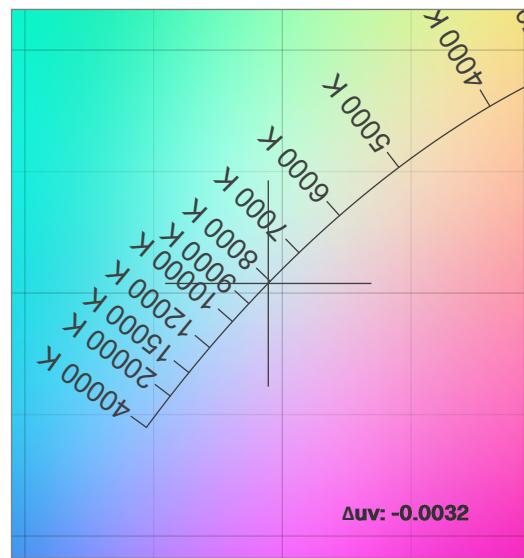
Rogue R3 Spot: Full Spot, Full Power

Chromaticity

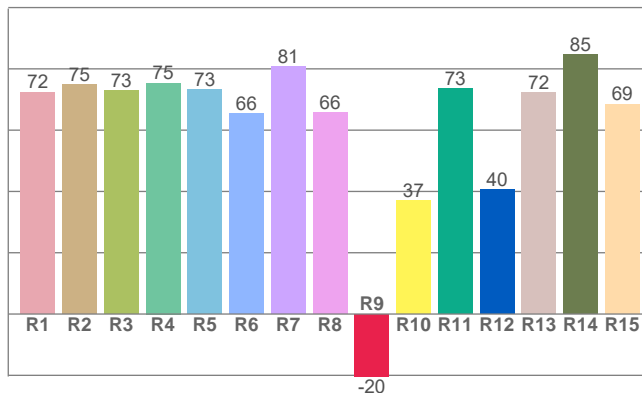
CIE 1931



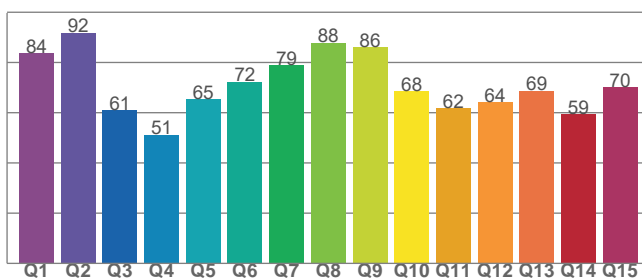
CIE 1931 - Zoom



CRI: 72.6 (R1-R8)



CQS: 69.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8081 K	0.295	0.304

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0032	0.304	0.194

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
72.6	-20.4	69.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
49	68.1	93.2

Chromaticity Report

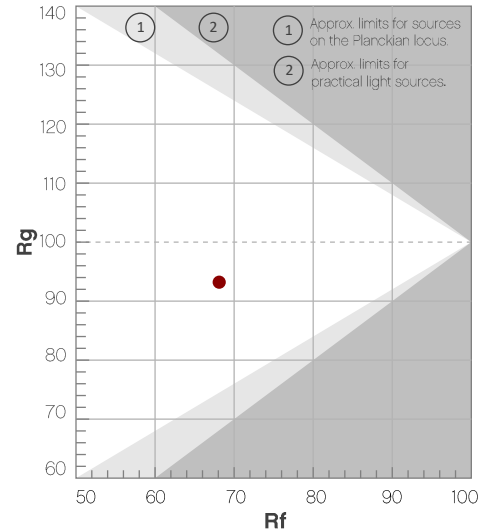
Rogue R3 Spot: Full Spot, Full Power

TM-30-18 Details

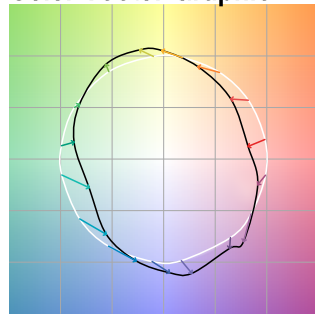
Rf 68.1
Fidelity Index (R_f)

Rg 93.2
Gamut Index (R_g)

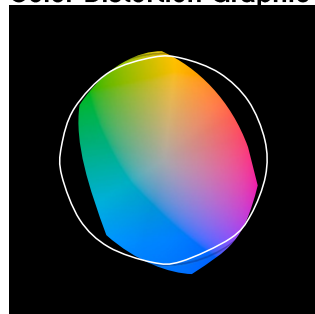
Hue Bin	R _f	Chroma Shift	Hue Shift
1	64	-17%	-3%
2	67	-13%	10%
3	62	-7%	21%
4	62	3%	21%
5	72	9%	12%
6	84	8%	-1%
7	90	-2%	-5%
8	75	-11%	-6%
9	70	-24%	17%
10	54	-13%	27%
11	33	-3%	30%
12	69	7%	19%
13	76	14%	8%
14	78	8%	-6%
15	66	9%	-26%
16	76	-6%	-11%



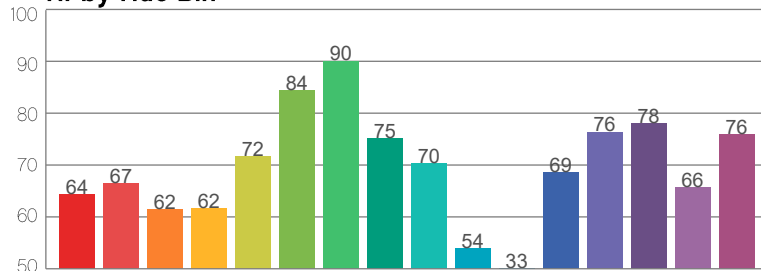
Color Vector Graphic



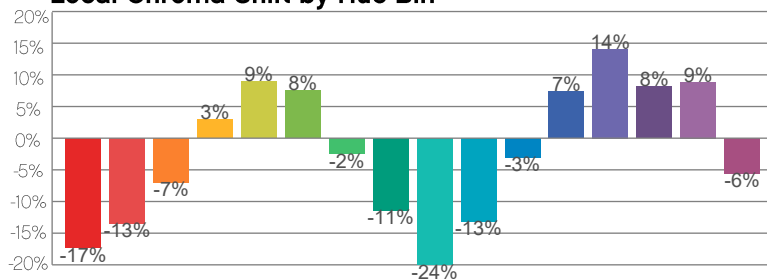
Color Distortion Graphic



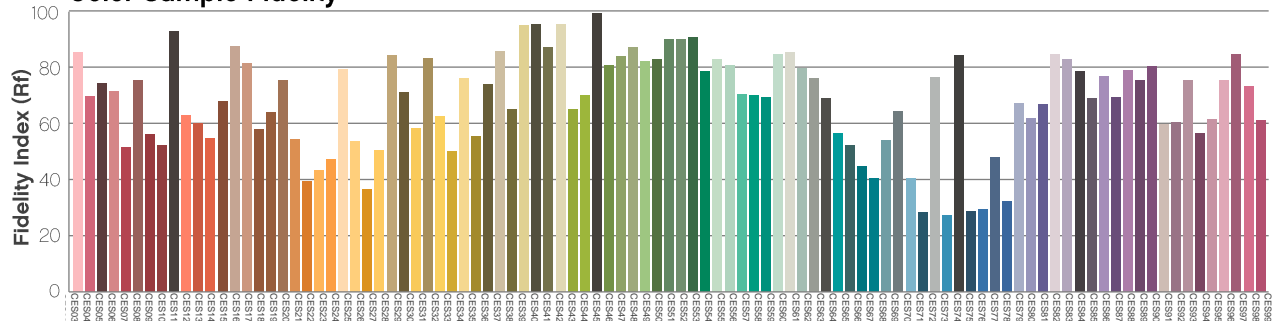
R_f by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Rogue R3 Spot: 50% Zoom, Full Power

Report Summary

Measurements

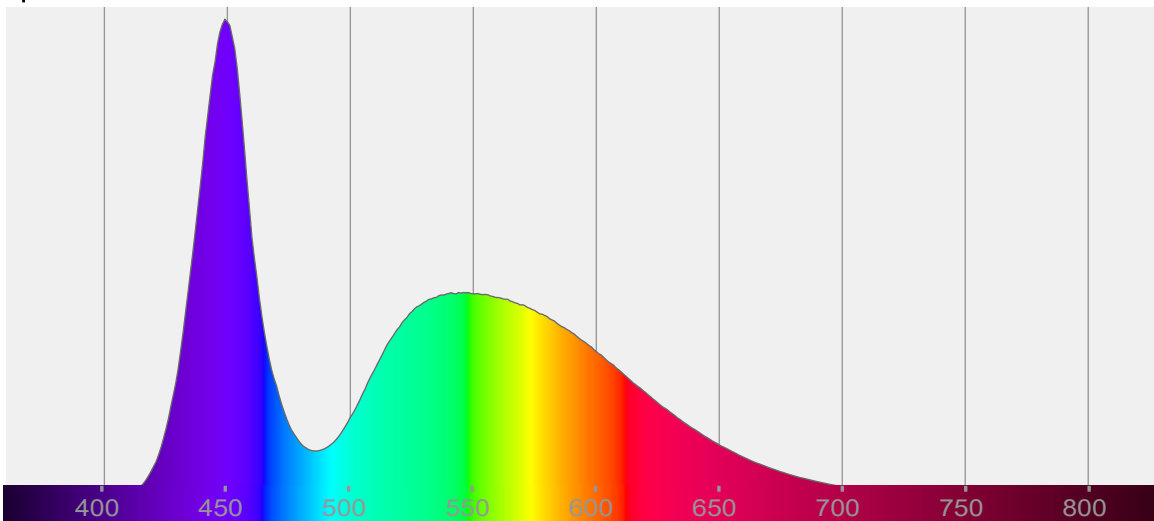
Total Lumens: 12286 lm
Peak Intensity: 118523 cd
Fixture Efficacy: 30 lm/W

Correlated Color Temperature: 8261K
 Δuv : -0.0033

CRI: 73.1 CRI R9 Value: -18.6
CQS: 69.4
TLCI: 49
TM-30-18 Rf: 68.5
TM-30-18 Rg: 93.1
1st Dominant Wavelength: 449 nm
2nd Dominant Wavelength: 544 nm



Spectral Distribution



Tested Color

8261 K

CIE 1931 Coordinates:
X: 0.293 Y: 0.302

Color Temperature

8261 K

Light Quality

CRI: 73.1

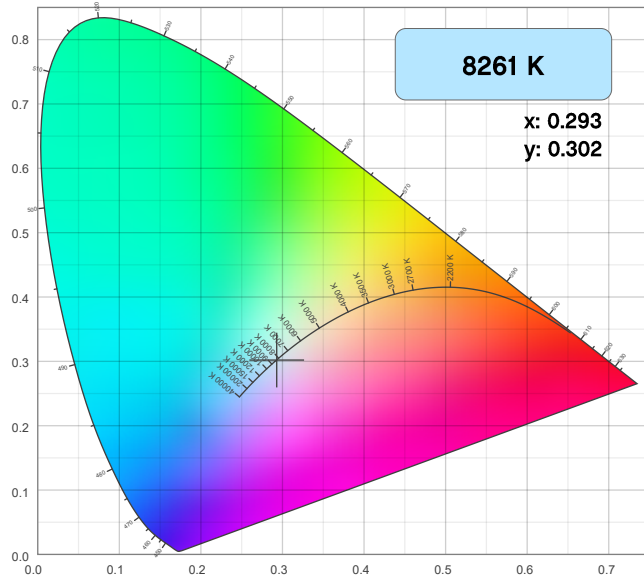
Notes:

Chromaticity Report

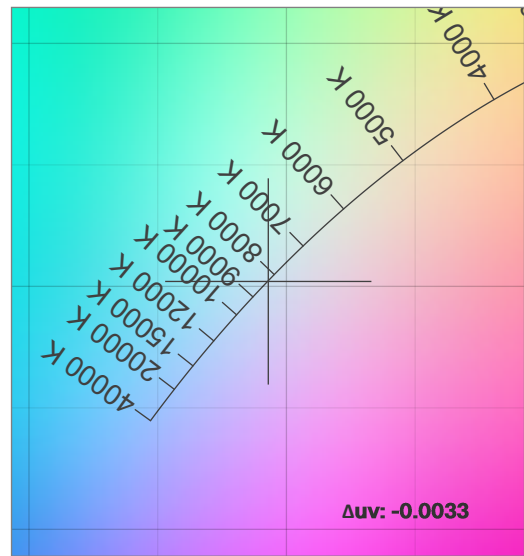
Rogue R3 Spot: 50% Zoom, Full Power

Chromaticity

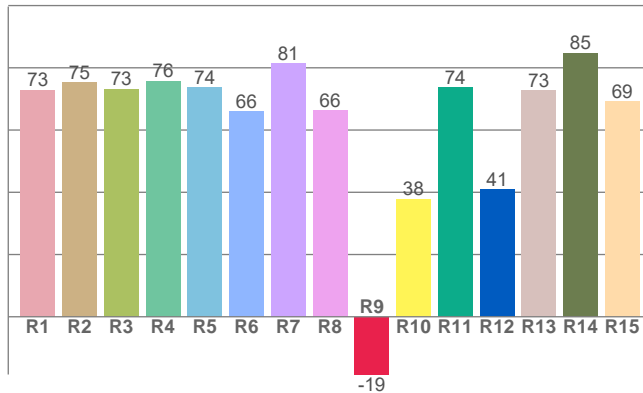
CIE 1931



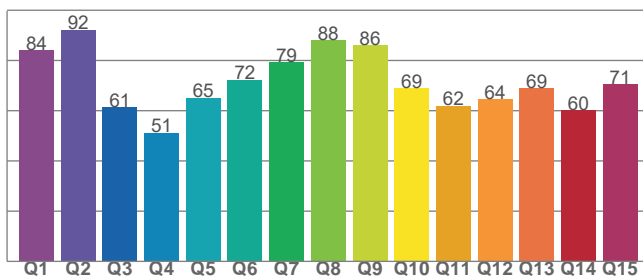
CIE 1931 - Zoom



CRI: 73.1 (R1-R8)



CQS: 69.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8261 K	0.293	0.302

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0033	0.302	0.194

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.1	-18.6	69.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
49	68.5	93.1

Chromaticity Report

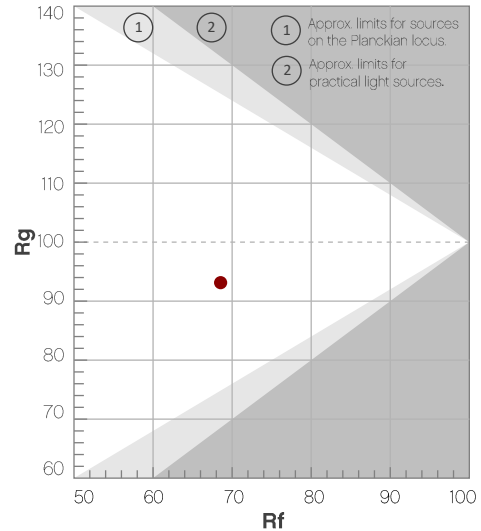
Rogue R3 Spot: 50% Zoom, Full Power

TM-30-18 Details

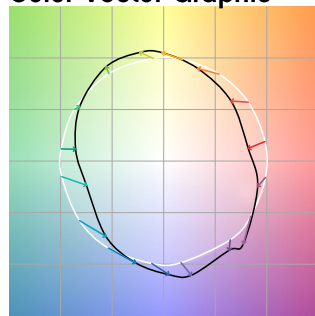
Rf 68.5
Fidelity Index (R_f)

Rg 93.1
Gamut Index (R_g)

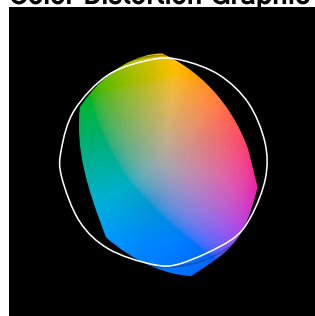
Hue Bin	R _f	Chroma Shift	Hue Shift
1	65	-17%	-3%
2	67	-13%	10%
3	62	-7%	20%
4	62	3%	21%
5	73	8%	12%
6	85	7%	-1%
7	90	-3%	-5%
8	73	-14%	-2%
9	72	-22%	13%
10	54	-13%	27%
11	34	-3%	30%
12	69	7%	18%
13	77	14%	7%
14	79	8%	-6%
15	66	9%	-26%
16	76	-6%	-10%



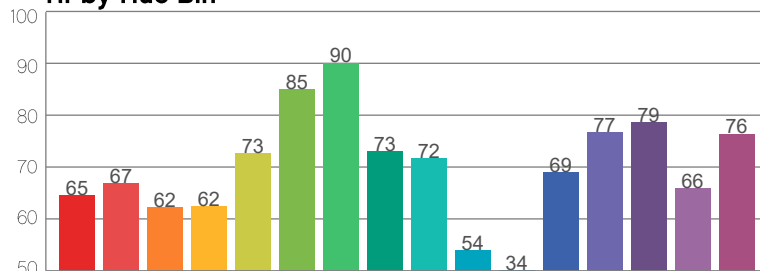
Color Vector Graphic



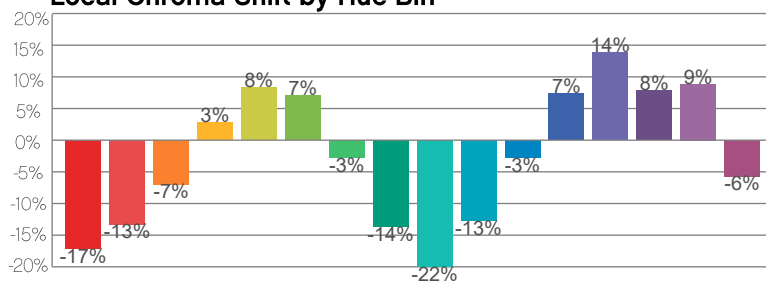
Color Distortion Graphic



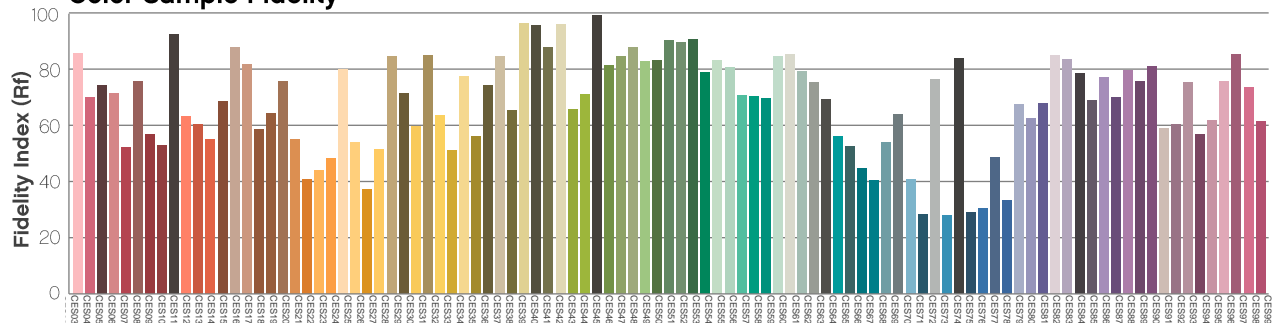
R_f by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Contact Us

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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.