

PHOTOMETRICS REPORT

MAVERICK

MK1 SPOT



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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

Maverick MK1 Spot: Full Flood, Full Power

Report Summary

Output

Total Lumens: 9436 lm
Peak Intensity: 43187 cd
Illuminance @ 5m: 1727 lux
Fixture Efficacy: 16 lm/W

Optical

Horizontal Beam Angle (50%): 31.6°
Vertical Beam Angle (50%): 31.6°
Horizontal Field Angle (10%): 36.9°
Vertical Field Angle (10%): 36.9°
Horizontal Cutoff Angle (3%): 39.2°
Vertical Cutoff Angle (3%): 39.2°

Conditions

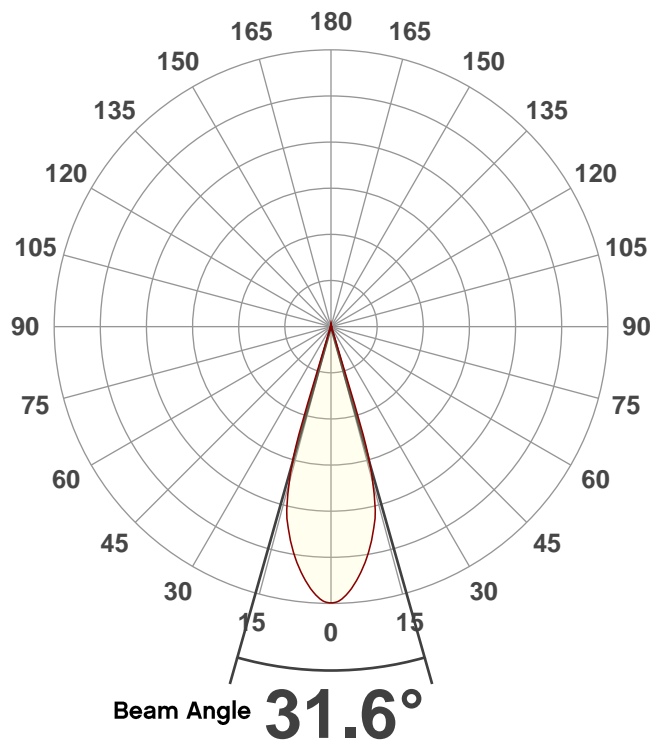
AC Supply: 115 V, 60 Hz
Power: 575.21 W
Current: 4.99 A
Power Factor: 1.0



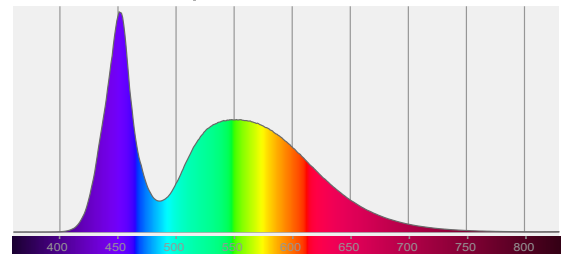
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 3/12/2020 to LM-63-2002 Standards.

Overall Measurement

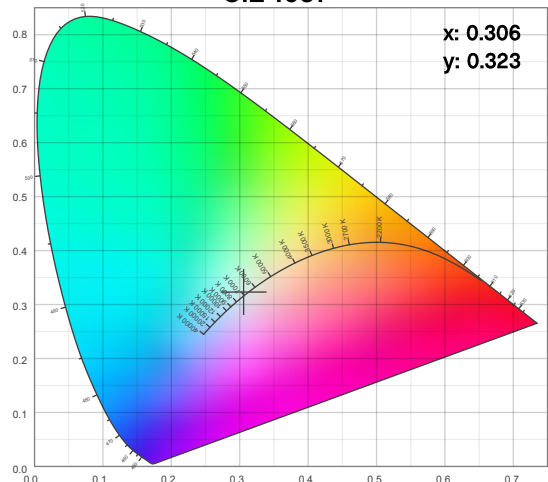
Angular Beam Distribution



Spectral Distribution



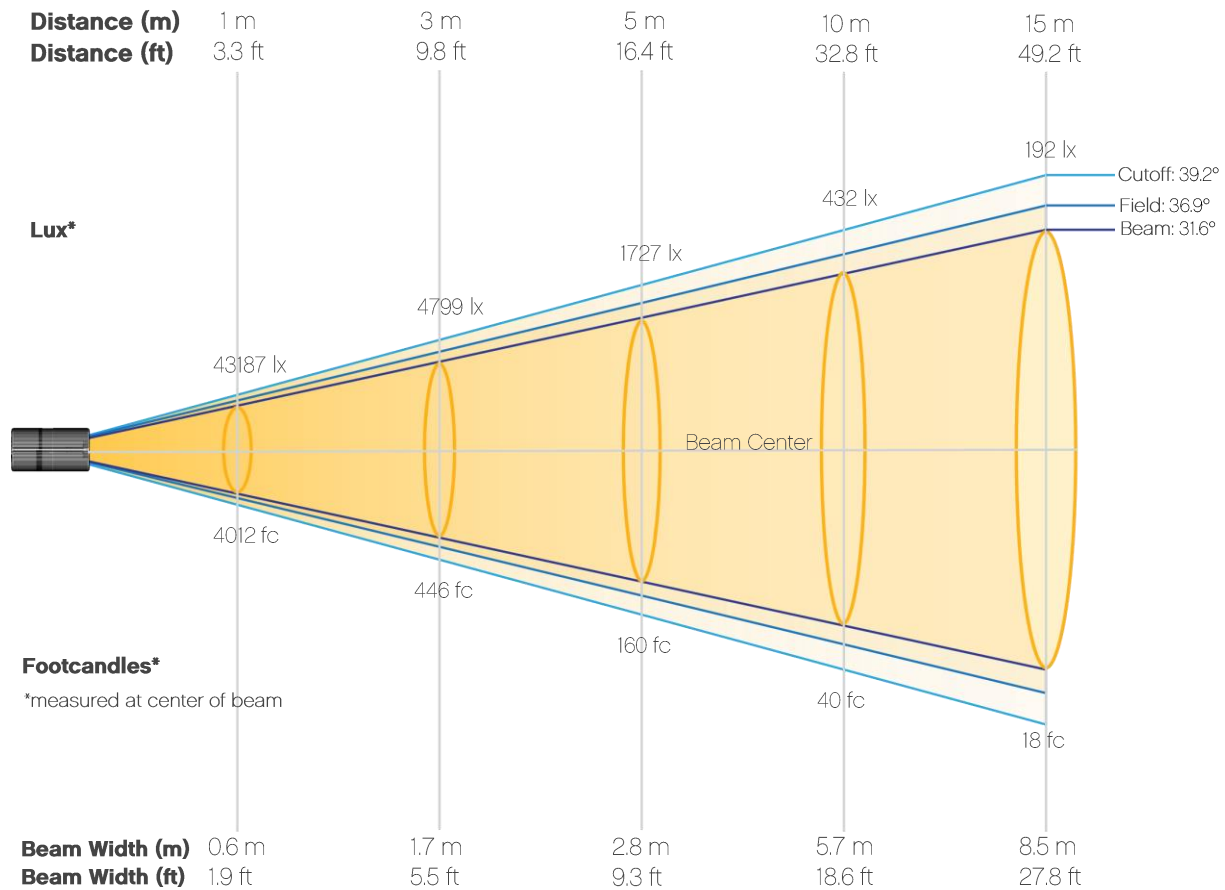
CIE 1931



Photometric Report

Maverick MK1 Spot: Full Flood, Full Power

Beam Details



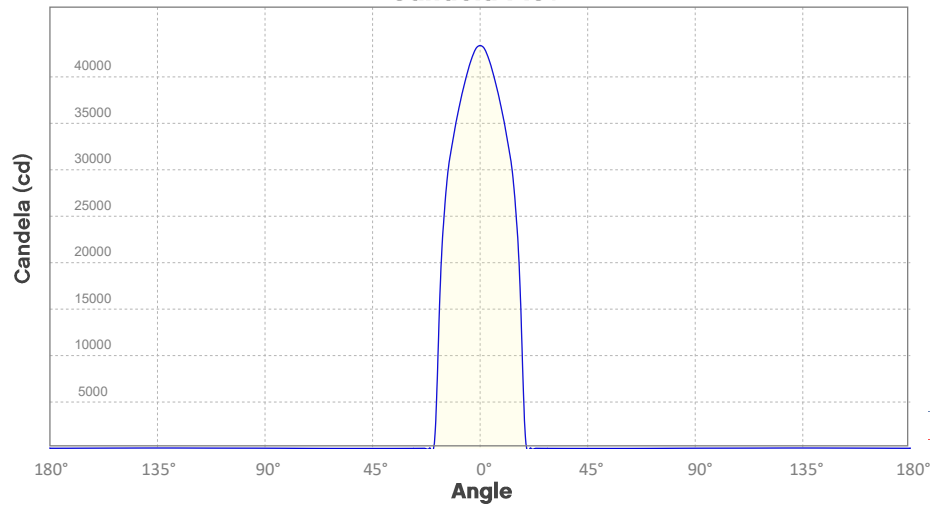
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	43187	10797	4799	2699	1727	1200	881	675	533	432
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	357	300	256	220	192	169	149	133	120	108
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	4012	1003	446	251	160	111	82	63	50	40
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	33	28	24	20	18	16	14	12	11	10

Photometric Report

Maverick MK1 Spot: Full Flood, Full Power

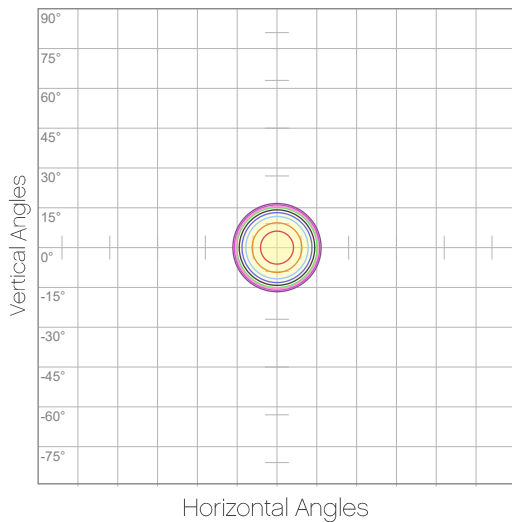
Candela Plot



Beam Angle (50%): 31.6°
 Field Angle (10%): 36.9°
 Cutoff Angle (3%): 39.2°

— Horizontal Distribution
 — Vertical Distribution

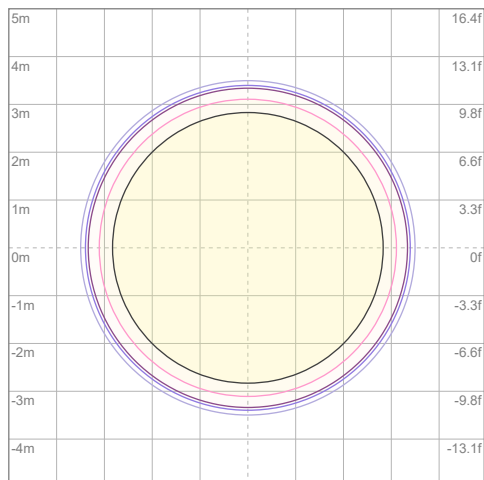
Polar Diagrams



iso-candela Diagram

10%	4319 cd
20%	8637 cd
30%	12956 cd
40%	17275 cd
50%	21594 cd
60%	25912 cd
70%	30231 cd
80%	34550 cd
90%	38869 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 43187 cd



iso-illuminance Diagram

3%	13.0 lx
5%	21.6 lx
10%	43.2 lx
30%	130 lx
50%	216 lx

Conditions:
 Number of c-planes: 2
 Lux at center: 432 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Maverick MK1 Spot: Full Spot, Full Power

Report Summary

Output

Total Lumens: 6530 lm
Peak Intensity: 628004 cd
Illuminance @ 5m: 25120 lux
Fixture Efficacy: 16 lm/W

Optical

Horizontal Beam Angle (50%): 6.5°
Vertical Beam Angle (50%): 6.5°
Horizontal Field Angle (10%): 8.7°
Vertical Field Angle (10%): 8.7°
Horizontal Cutoff Angle (3%): 9.9°
Vertical Cutoff Angle (3%): 9.9°

Conditions

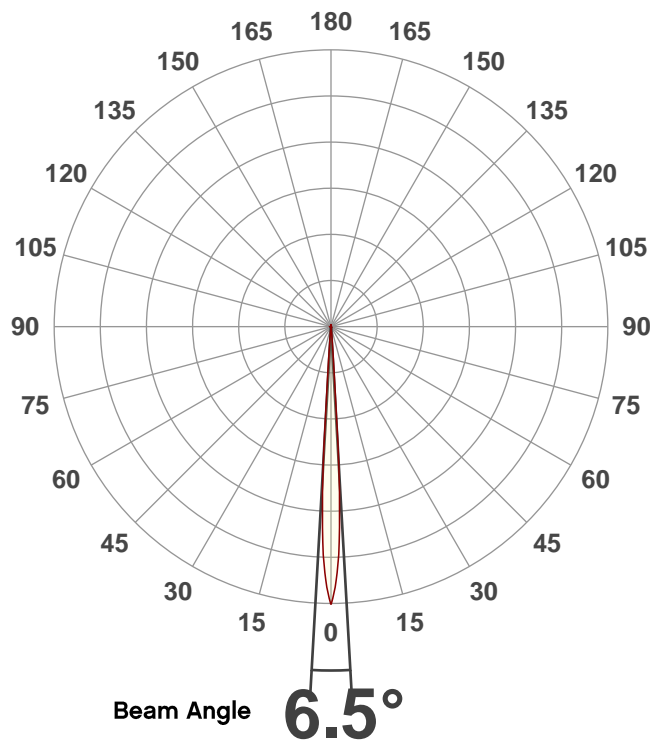
AC Supply: 116 V, 60 Hz
Power: 412.47 W
Current: 3.54 A
Power Factor: 0.99



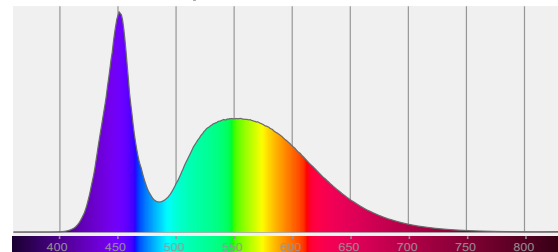
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 3/12/2020 to LM-63-2002 Standards.

Overall Measurement

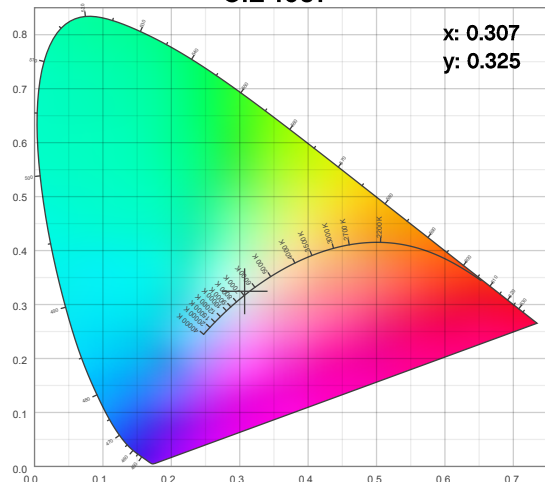
Angular Beam Distribution



Spectral Distribution



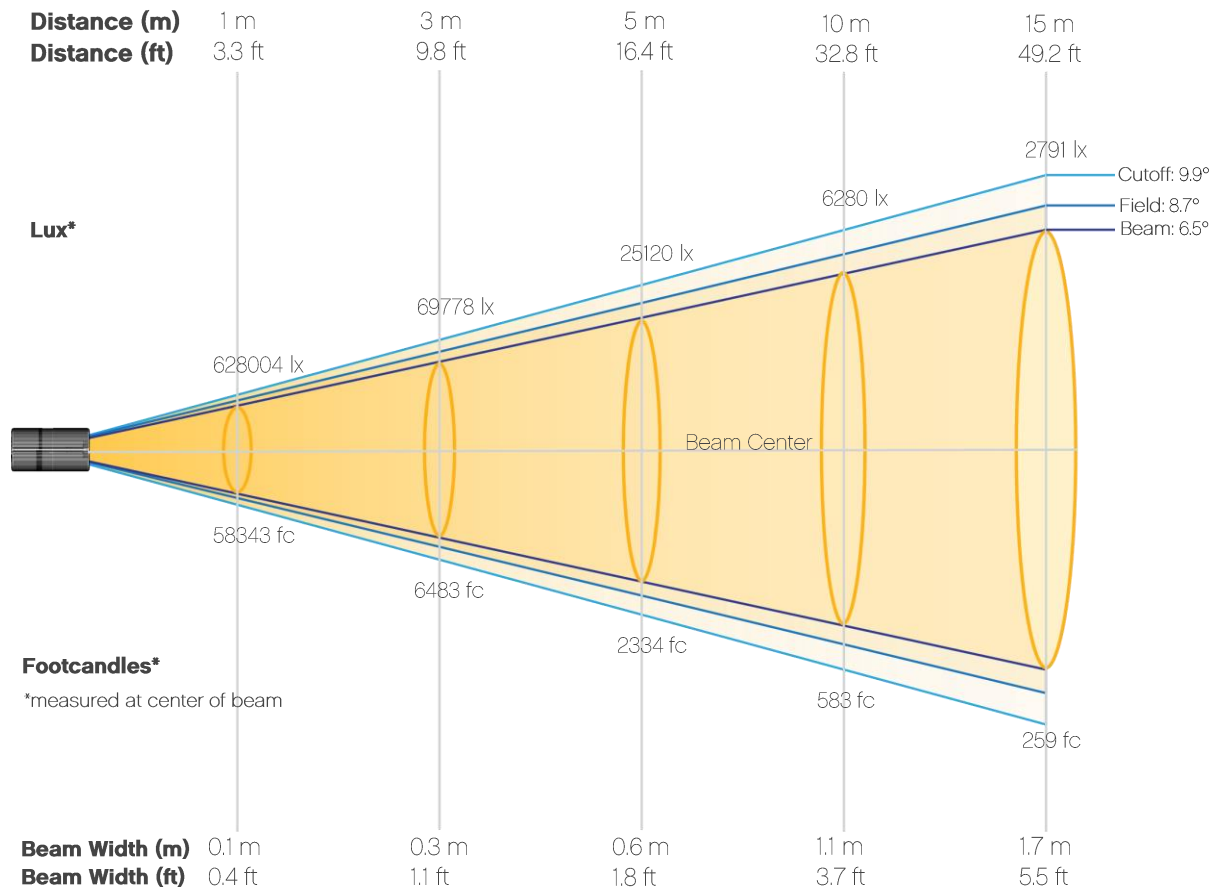
CIE 1931



Photometric Report

Maverick MK1 Spot: Full Spot, Full Power

Beam Details



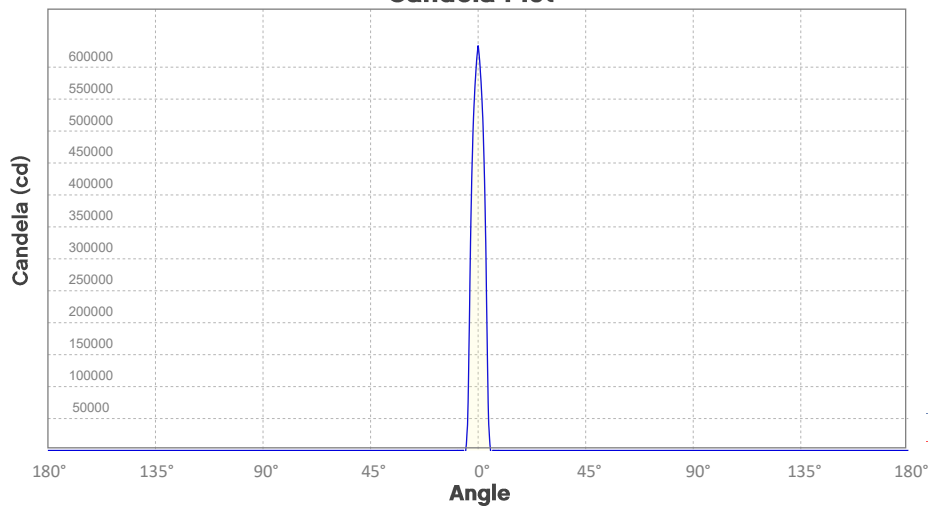
Beam luminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	628004	157001	69778	39250	25120	17445	12816	9813	7753	6280
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5190	4361	3716	3204	2791	2453	2173	1938	1740	1570
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	58343	14586	6483	3646	2334	1621	1191	912	720	583
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	482	405	345	298	259	228	202	180	162	146

Photometric Report

Maverick MK1 Spot: Full Spot, Full Power

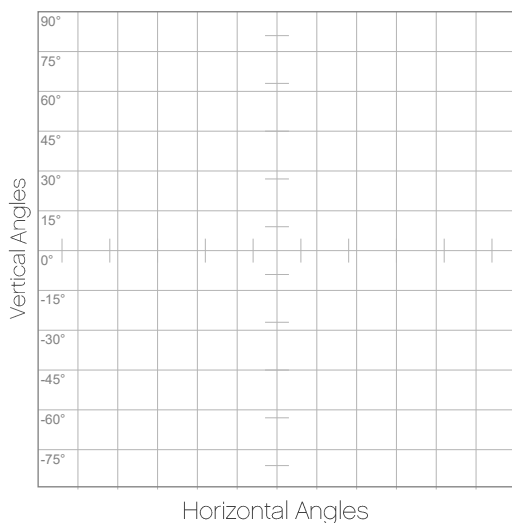
Candela Plot



Beam Angle (50%): 6.5°
Field Angle (10%): 8.7°
Cutoff Angle (3%): 9.9°

— Horizontal Distribution
— Vertical Distribution

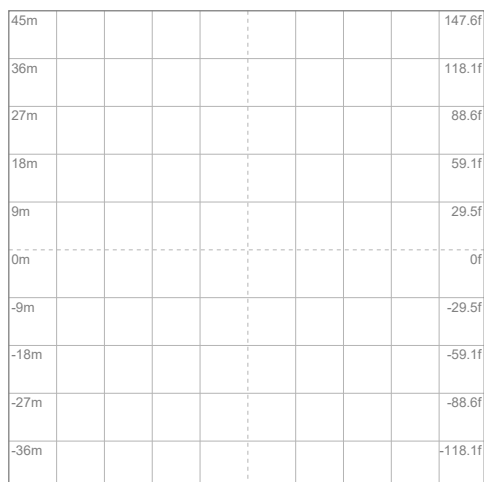
Polar Diagrams



iso-candela Diagram

10%	62800 cd
20%	125601 cd
30%	188401 cd
40%	251202 cd
50%	314002 cd
60%	376802 cd
70%	439603 cd
80%	502403 cd
90%	565204 cd

Conditions:
Number of c-planes: 2
Candela at center: 628004 cd



iso-illuminance Diagram

3%	188 lx
5%	314 lx
10%	628 lx
30%	1884 lx
50%	3140 lx

Conditions:
Number of c-planes: 2
Lux at center: 6280 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Maverick MK1 Spot: Full Spot, Full Power-Stable

Report Summary

Output

Total Lumens: 5964 lm
Peak Intensity: 620447 cd
Illuminance @ 5m: 24818 lux
Fixture Efficacy: 15 lm/W

Optical

Horizontal Beam Angle (50%): 6.1°
Vertical Beam Angle (50%): 6.1°
Horizontal Field Angle (10%): 8.3°
Vertical Field Angle (10%): 8.3°
Horizontal Cutoff Angle (3%): 9.8°
Vertical Cutoff Angle (3%): 9.8°

Conditions

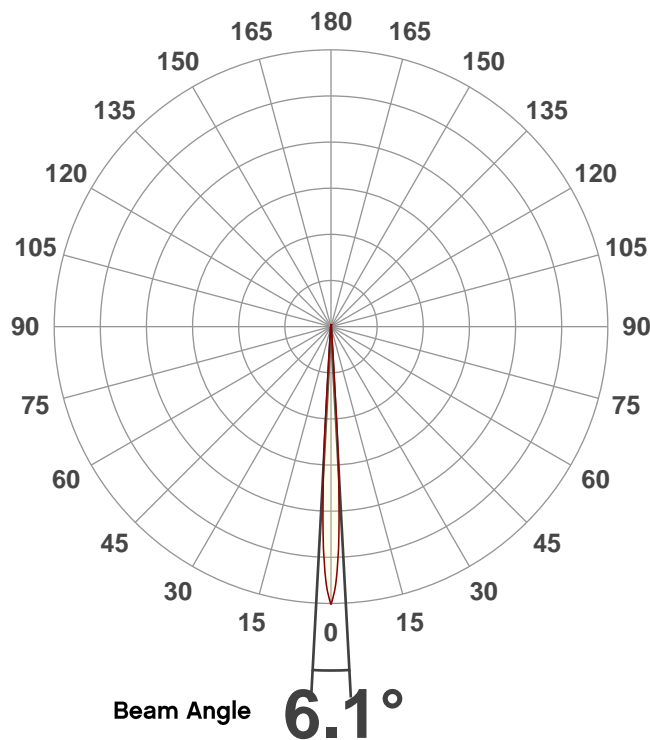
AC Supply: 118 V, 60 Hz
Power: 394.82 W
Current: 3.36 A
Power Factor: 0.99



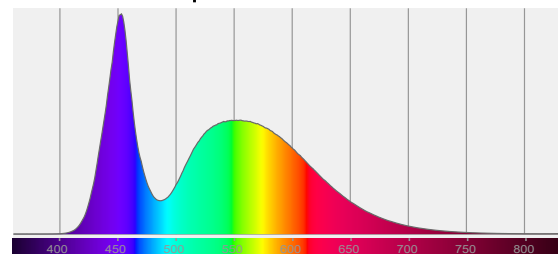
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Overall Measurement

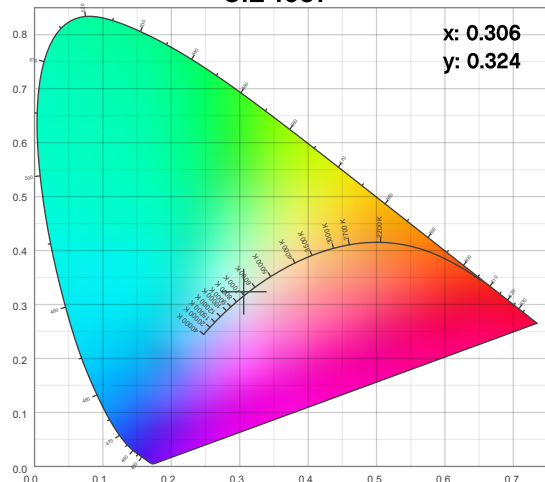
Angular Beam Distribution



Spectral Distribution



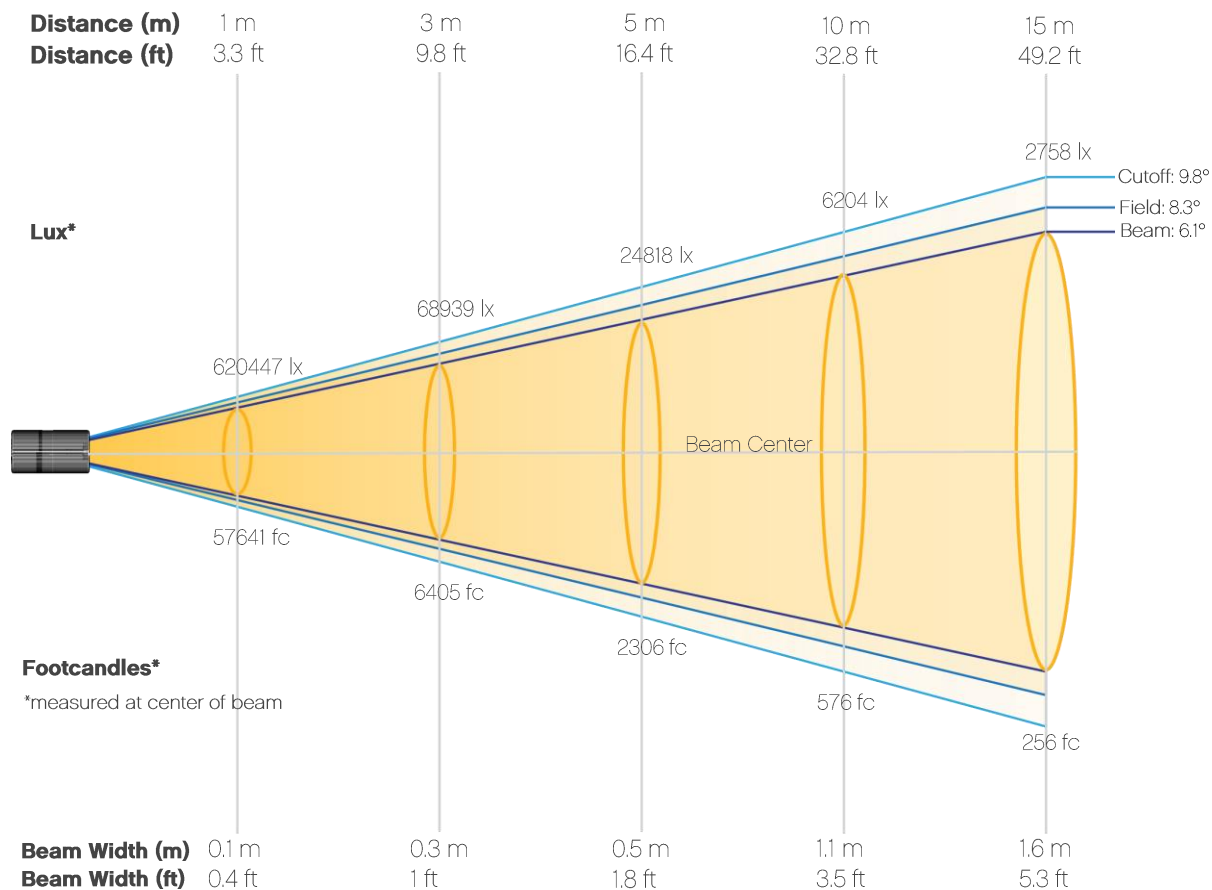
CIE 1931



Photometric Report

Maverick MK1 Spot: Full Spot, Full Power-Stable

Beam Details

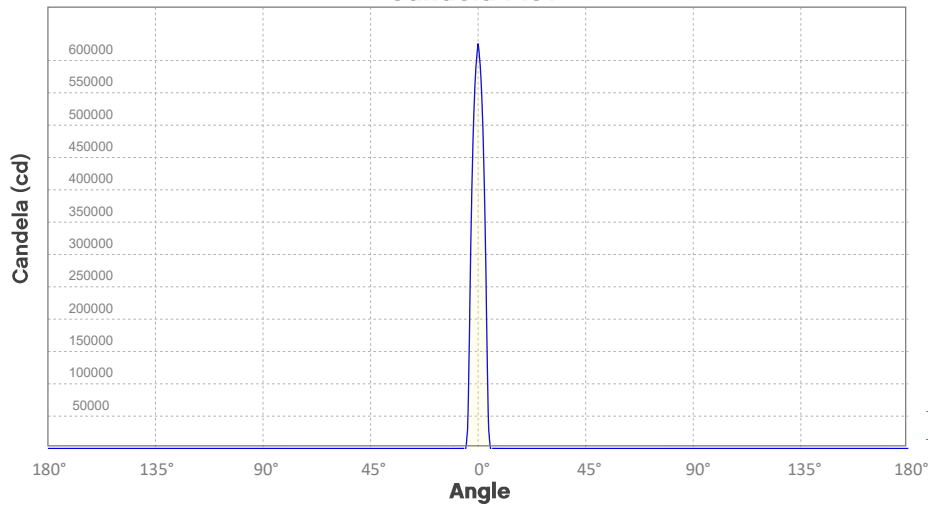


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	620447	155112	68939	38778	24818	17235	12662	9694	7660	6204
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	5128	4309	3671	3166	2758	2424	2147	1915	1719	1551
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	57641	14410	6405	3603	2306	1601	1176	901	712	576
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	476	400	341	294	256	225	199	178	160	144

Photometric Report

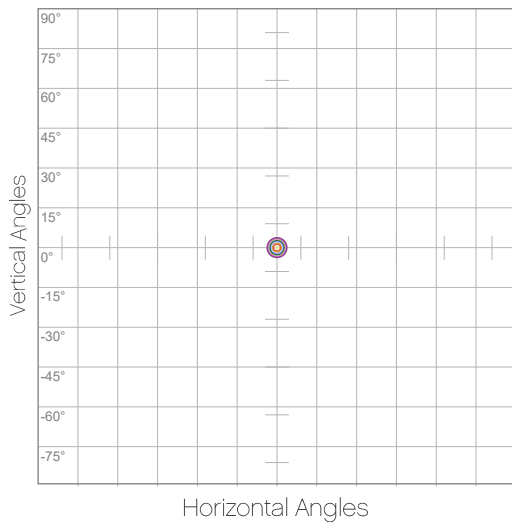
Maverick MK1 Spot: Full Spot, Full Power-Stable
Candela Plot



Beam Angle (50%): 6.1°
Field Angle (10%): 8.3°
Cutoff Angle (3%): 9.8°

— Horizontal Distribution
— Vertical Distribution

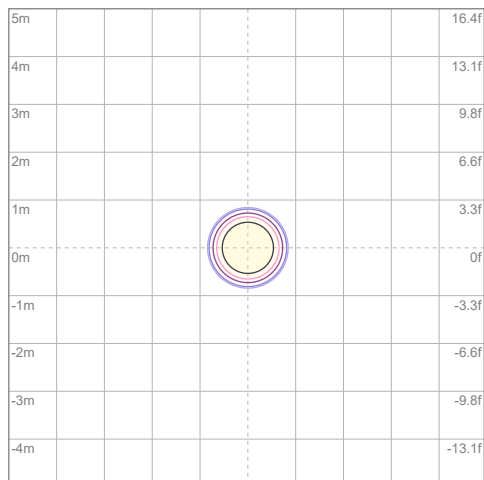
Polar Diagrams



iso-candela Diagram

10%	62045 cd
20%	124089 cd
30%	186134 cd
40%	248179 cd
50%	310223 cd
60%	372268 cd
70%	434313 cd
80%	496357 cd
90%	558402 cd

Conditions:
Number of c-planes: 2
Candela at center: 620447 cd



iso-illuminance Diagram

3%	186 lx
5%	310 lx
10%	620 lx
30%	1861 lx
50%	3102 lx

Conditions:
Number of c-planes: 2
Lux at center: 6204 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Maverick MK1 Spot: 50% Zoom, Full Power

Report Summary

Output

Total Lumens: 9619 lm
Peak Intensity: 171614 cd
Illuminance @ 5m: 6865 lux
Fixture Efficacy: 17 lm/W

Optical

Horizontal Beam Angle (50%): 15.6°
Vertical Beam Angle (50%): 15.6°
Horizontal Field Angle (10%): 19.1°
Vertical Field Angle (10%): 19.1°
Horizontal Cutoff Angle (3%): 20.4°
Vertical Cutoff Angle (3%): 20.4°

Conditions

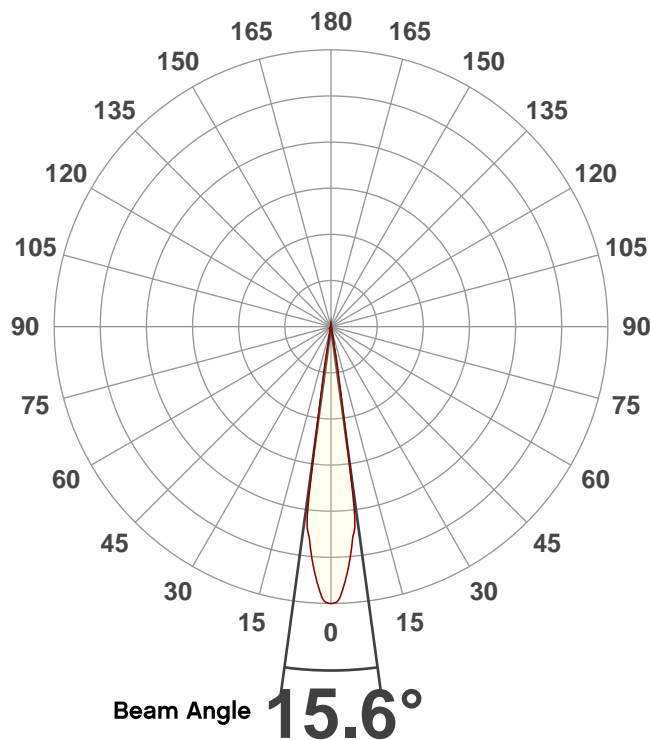
AC Supply: 115 V, 60 Hz
Power: 577.28 W
Current: 5.01 A
Power Factor: 1.0



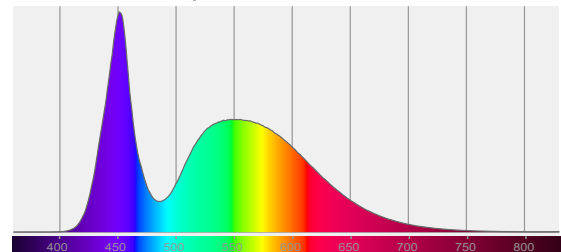
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Overall Measurement

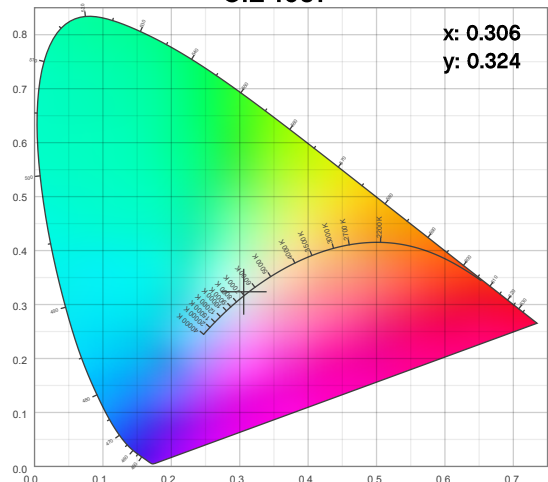
Angular Beam Distribution



Spectral Distribution



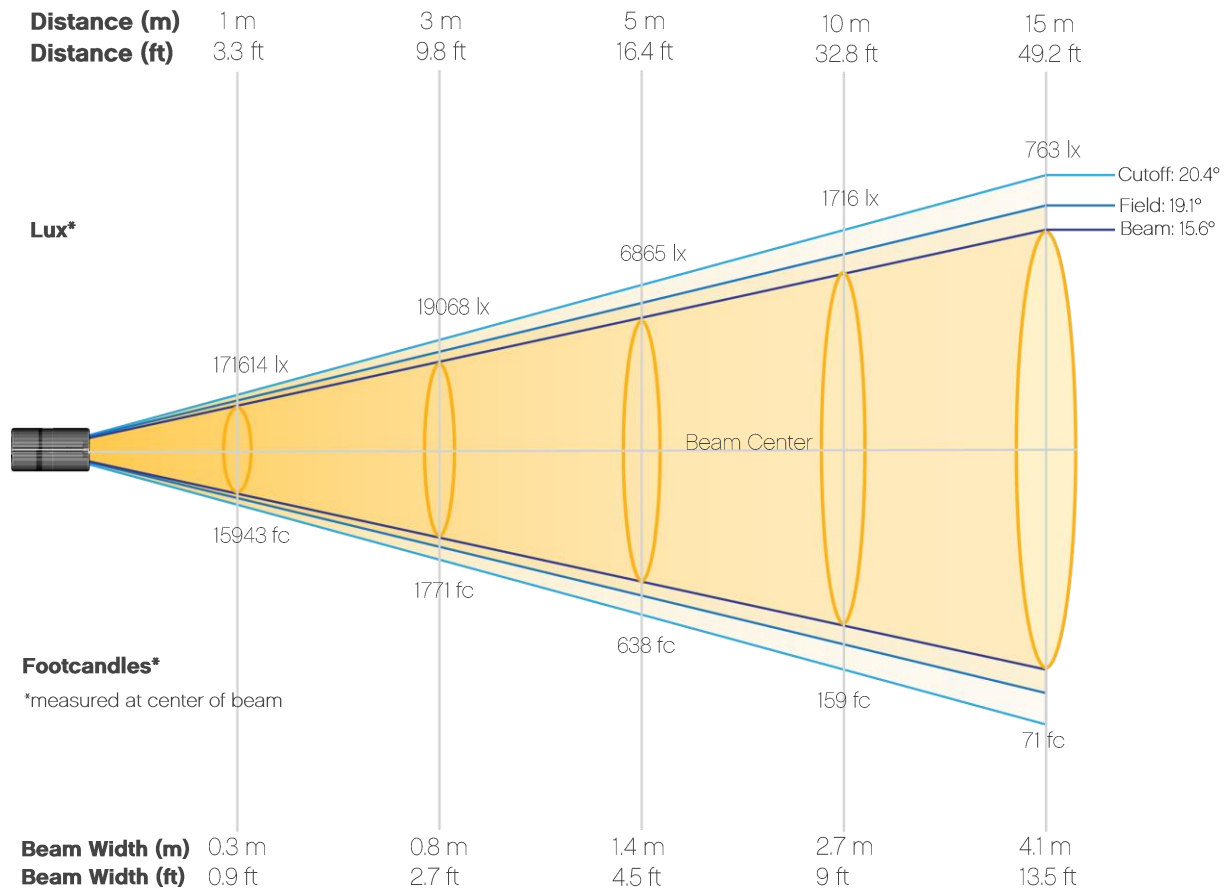
CIE 1931



Photometric Report

Maverick MK1 Spot: 50% Zoom, Full Power

Beam Details



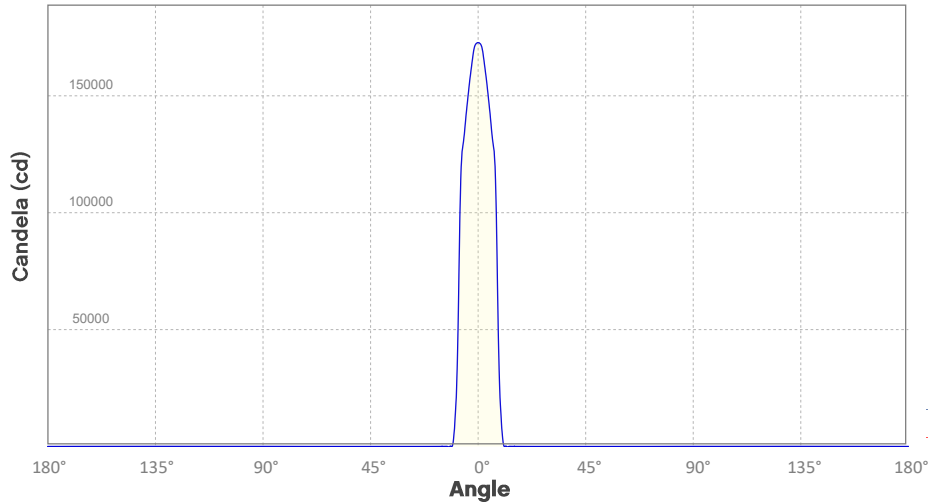
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	171614	42904	19068	10726	6865	4767	3502	2681	2119	1716
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1418	1192	1015	876	763	670	594	530	475	429
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	15943	3986	1771	996	638	443	325	249	197	159
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	132	111	94	81	71	62	55	49	44	40

Photometric Report

Maverick MK1 Spot: 50% Zoom, Full Power

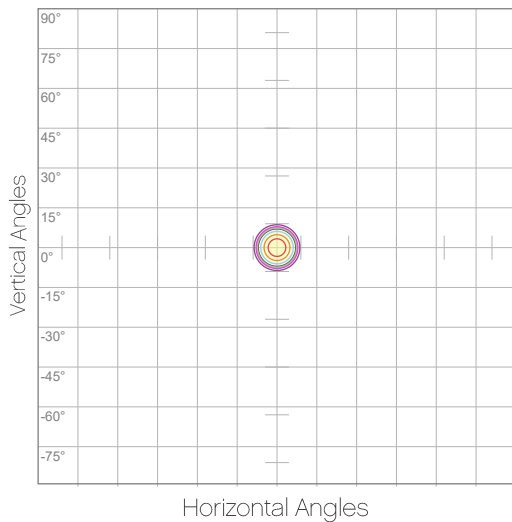
Candela Plot



Beam Angle (50%): 15.6°
Field Angle (10%): 19.1°
Cutoff Angle (3%): 20.4°

— Horizontal Distribution
— Vertical Distribution

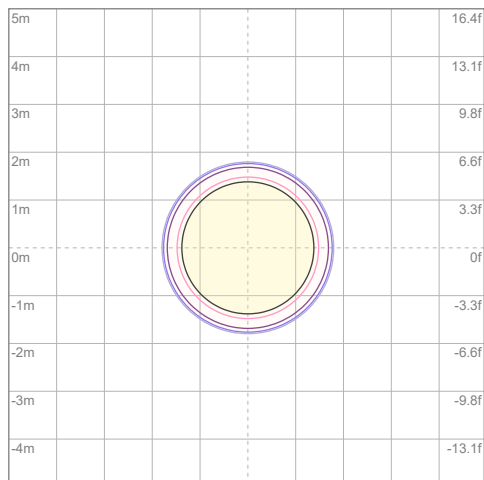
Polar Diagrams



iso-candela Diagram

10%	17161 cd
20%	34323 cd
30%	51484 cd
40%	68646 cd
50%	85807 cd
60%	102969 cd
70%	120130 cd
80%	137291 cd
90%	154453 cd

Conditions:
Number of c-planes: 2
Candela at center: 171614 cd



iso-illuminance Diagram

3%	51.5 lx
5%	85.8 lx
10%	172 lx
30%	515 lx
50%	858 lx

Conditions:
Number of c-planes: 2
Lux at center: 1716 lx

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

Mounting height: 10 meters / 33 feet

Chromaticity Report

Maverick MK1 Spot: Full Flood, Full Power

Report Summary

Measurements

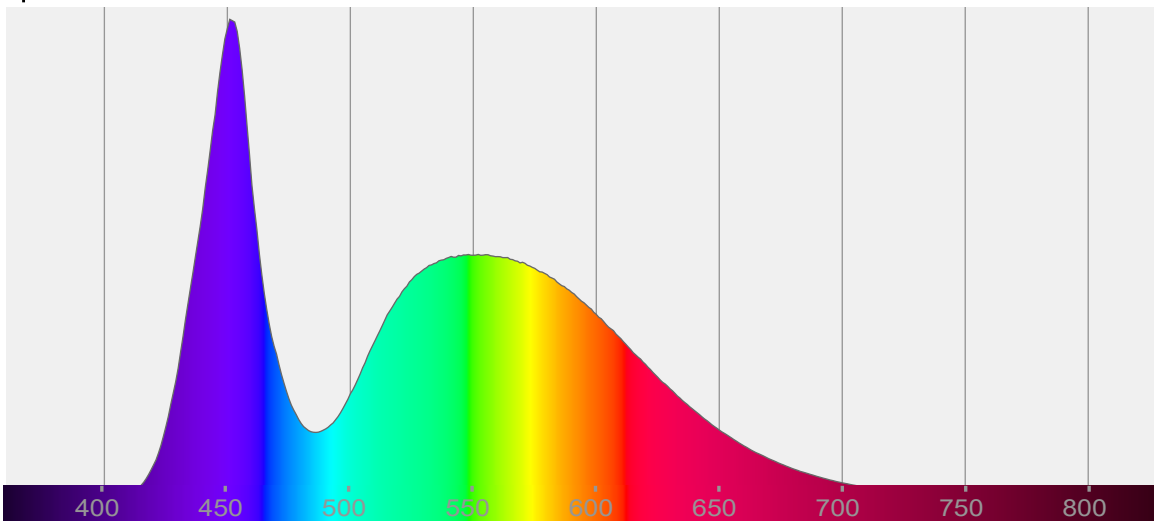
Total Lumens: 9436 lm
Peak Intensity: 43187 cd
Fixture Efficacy: 16 lm/W

Correlated Color Temperature: 6969K
 Δuv : 0.0006

CRI: 73.7 CRI R9 Value: -26.2
CQS: 71.2
TLCI: 52
TM-30-18 Rf: 71.5
TM-30-18 Rg: 92.6
1st Dominant Wavelength: 451 nm
2nd Dominant Wavelength: 552 nm



Spectral Distribution



Tested Color

6969 K

CIE 1931 Coordinates:
X: 0.306 Y: 0.323

Color Temperature

6969 K

Light Quality

CRI: 73.7

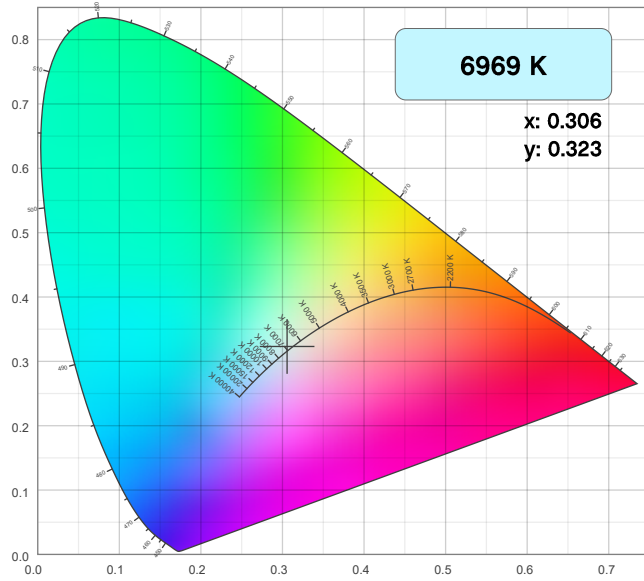
Notes:

Chromaticity Report

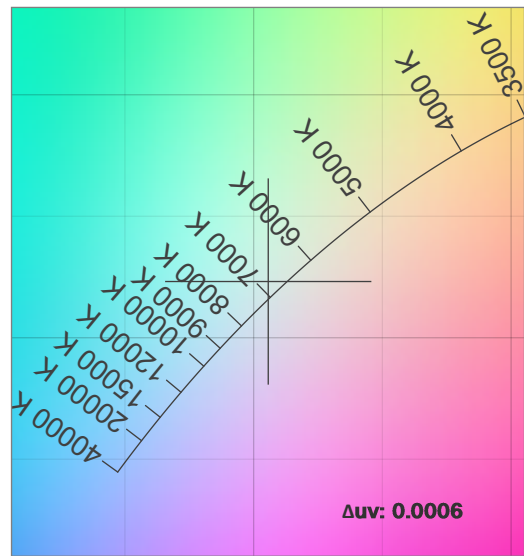
Maverick MK1 Spot: Full Flood, Full Power

Chromaticity

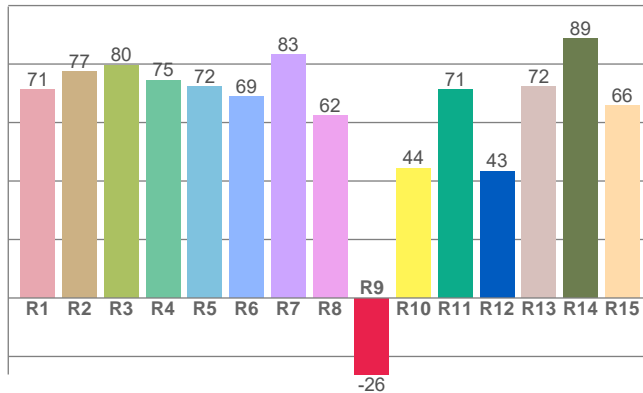
CIE 1931



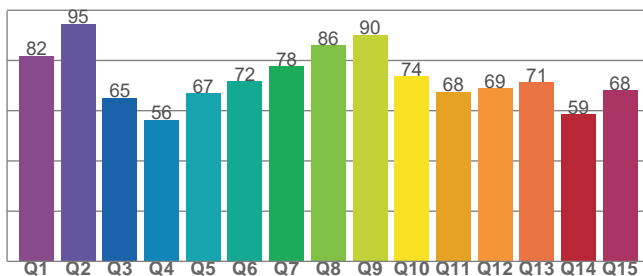
CIE 1931 - Zoom



CRI: 73.7 (R1-R8)



CQS: 71.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6969 K	0.306	0.323

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δ_{uv}	y	u
0.0006	0.323	0.195

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.7	-26.2	71.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
52	71.5	92.6

Chromaticity Report

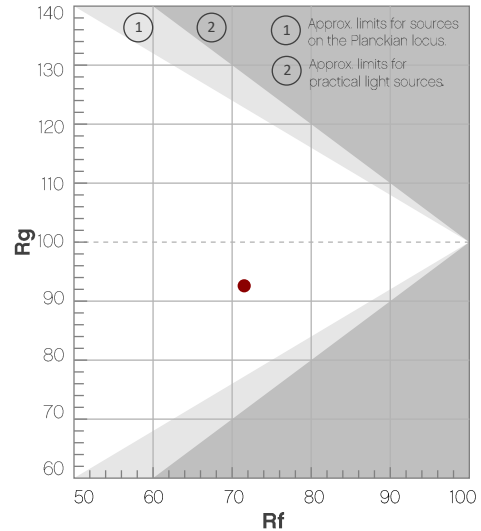
Maverick MK1 Spot: Full Flood, Full Power

TM-30-18 Details

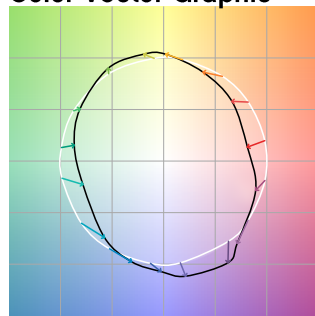
Rf 71.5
Fidelity Index (R_f)

Rg 92.6
Gamut Index (R_g)

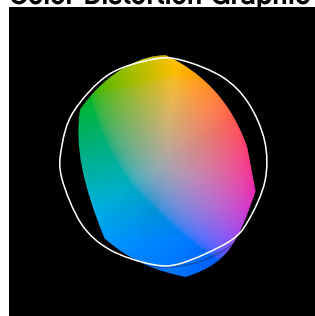
Hue Bin	R _f	Chroma Shift	Hue Shift
1	64	-18%	-3%
2	68	-13%	9%
3	66	-7%	18%
4	69	2%	17%
5	78	6%	9%
6	87	5%	-3%
7	89	-4%	-5%
8	76	-12%	-5%
9	73	-19%	10%
10	59	-11%	24%
11	45	-1%	25%
12	74	6%	11%
13	81	14%	3%
14	72	17%	-12%
15	65	4%	-24%
16	75	-7%	-11%



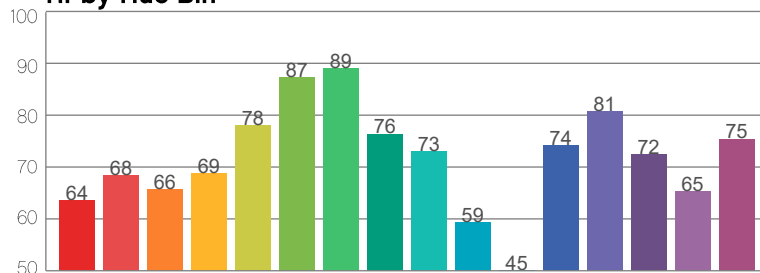
Color Vector Graphic



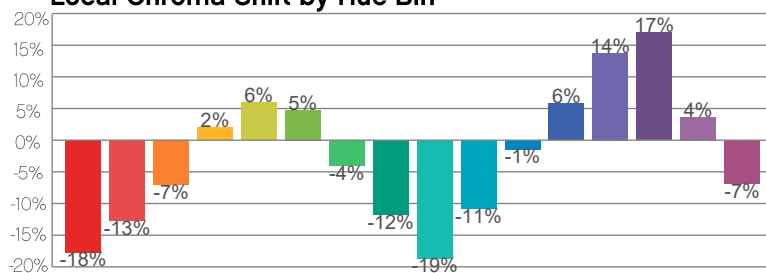
Color Distortion Graphic



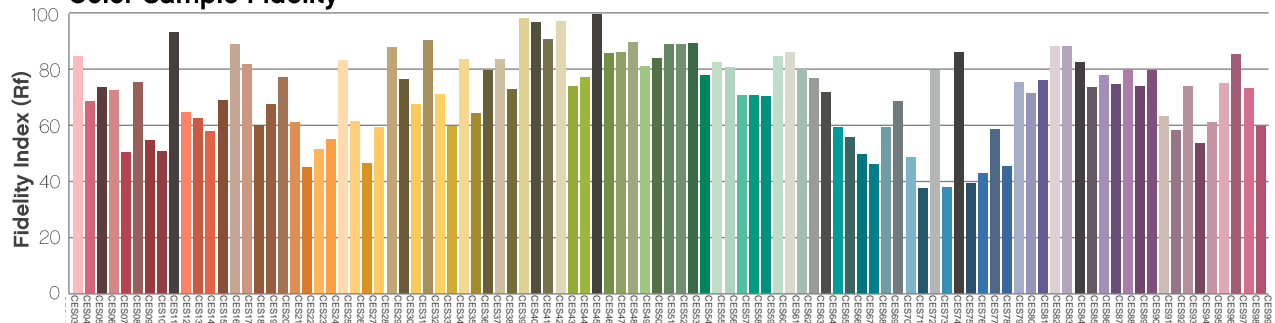
R_f by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Maverick MK1 Spot: Full Spot, Full Power

Report Summary

Measurements

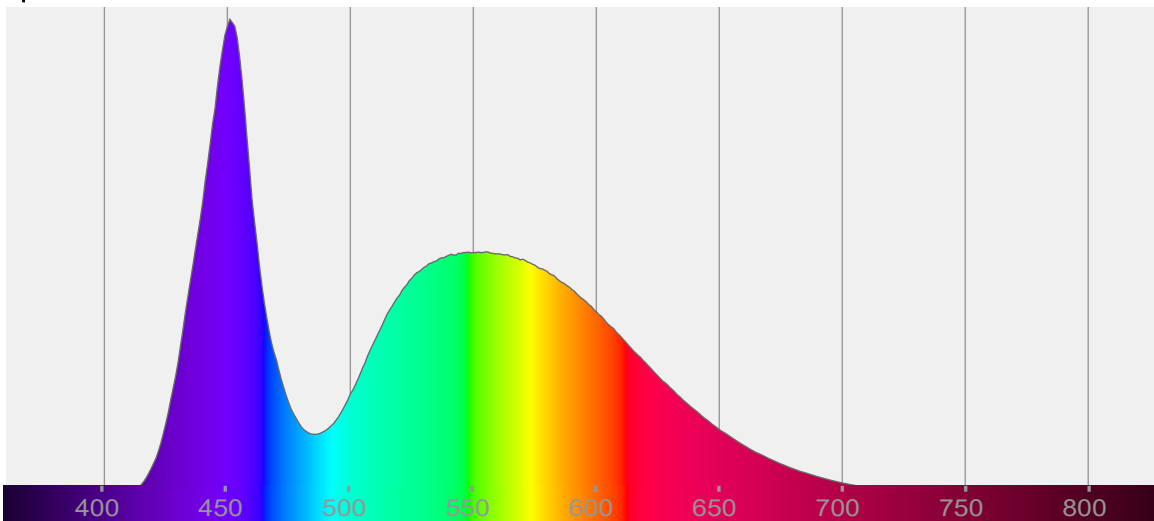
Total Lumens: 6530 lm
Peak Intensity: 628004 cd
Fixture Efficacy: 16 lm/W

Correlated Color Temperature: 6867K
 Δuv : 0.0006

CRI: 73.2 CRI R9 Value: -27.9
CQS: 70.9
TLCI: 51
TM-30-18 Rf: 71.1
TM-30-18 Rg: 93.0
1st Dominant Wavelength: 451 nm
2nd Dominant Wavelength: 555 nm



Spectral Distribution



Tested Color

6867 K

CIE 1931 Coordinates:
X: 0.307 Y: 0.325

Color Temperature

6867 K

Light Quality

CRI: 73.2

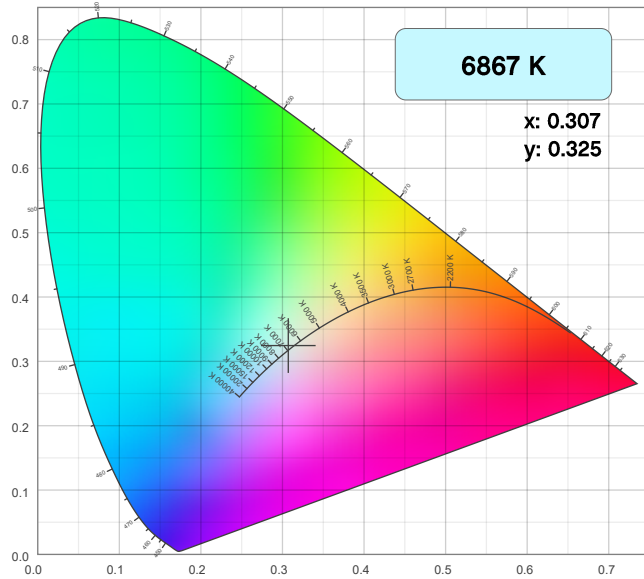
Notes:

Chromaticity Report

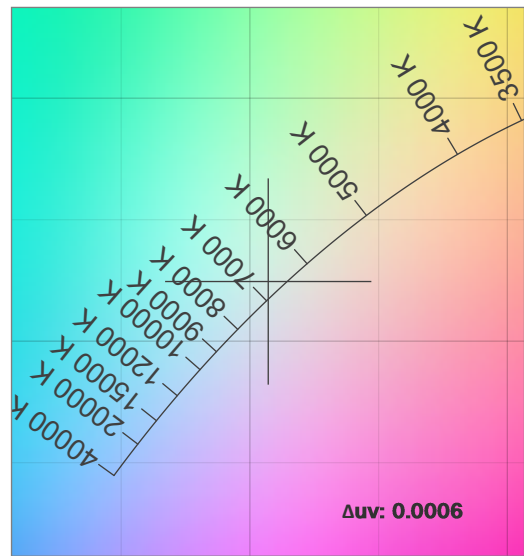
Maverick MK1 Spot: Full Spot, Full Power

Chromaticity

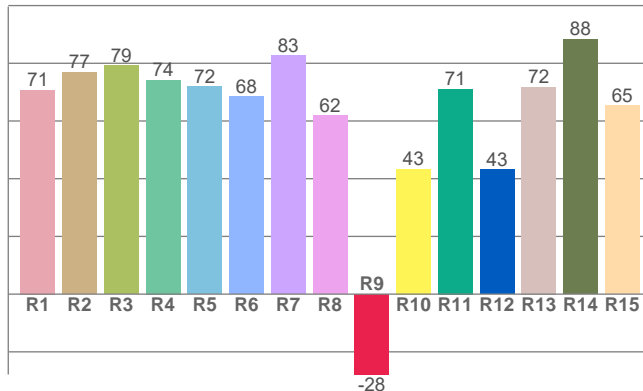
CIE 1931



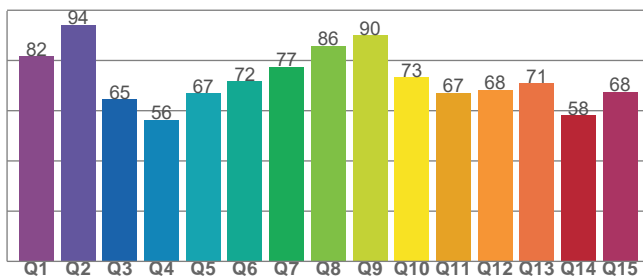
CIE 1931 - Zoom



CRI: 73.2 (R1-R8)



CQS: 70.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6867 K	0.307	0.325

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δ_{uv}	y	u
0.0006	0.325	0.196

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.2	-27.9	70.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
51	71.1	93.0

Chromaticity Report

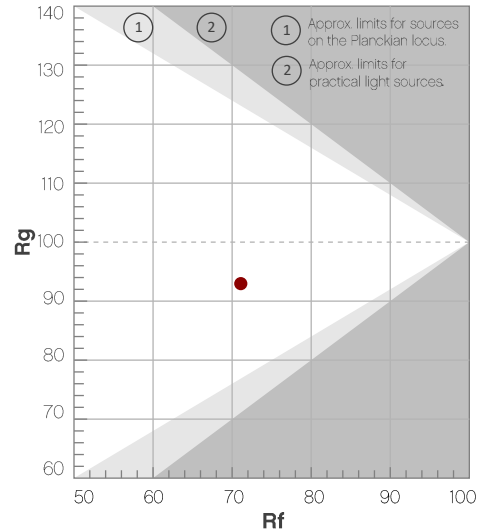
Maverick MK1 Spot: Full Spot, Full Power

TM-30-18 Details

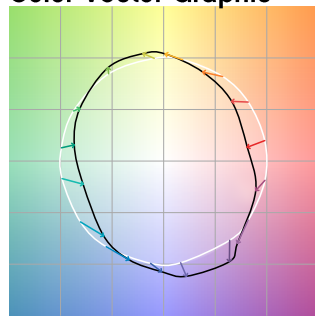
Rf 71.1
Fidelity Index (R_f)

Rg 93.0
Gamut Index (R_g)

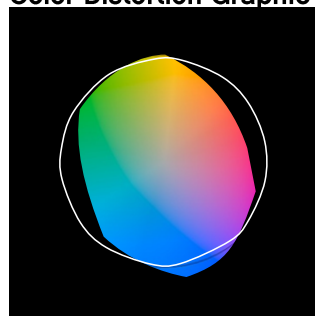
Hue Bin	R _f	Chroma Shift	Hue Shift
1	63	-18%	-3%
2	68	-13%	9%
3	65	-7%	18%
4	68	2%	18%
5	77	7%	10%
6	87	5%	-3%
7	89	-4%	-5%
8	76	-12%	-5%
9	73	-19%	9%
10	56	-11%	24%
11	50	-2%	25%
12	73	6%	12%
13	80	14%	3%
14	73	17%	-12%
15	65	4%	-25%
16	75	-7%	-11%



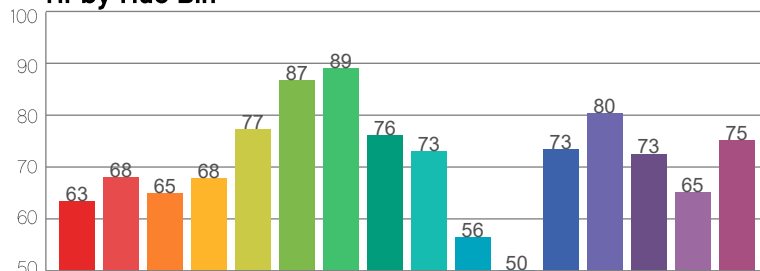
Color Vector Graphic



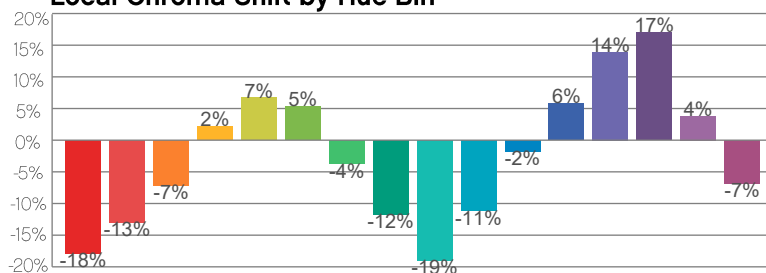
Color Distortion Graphic



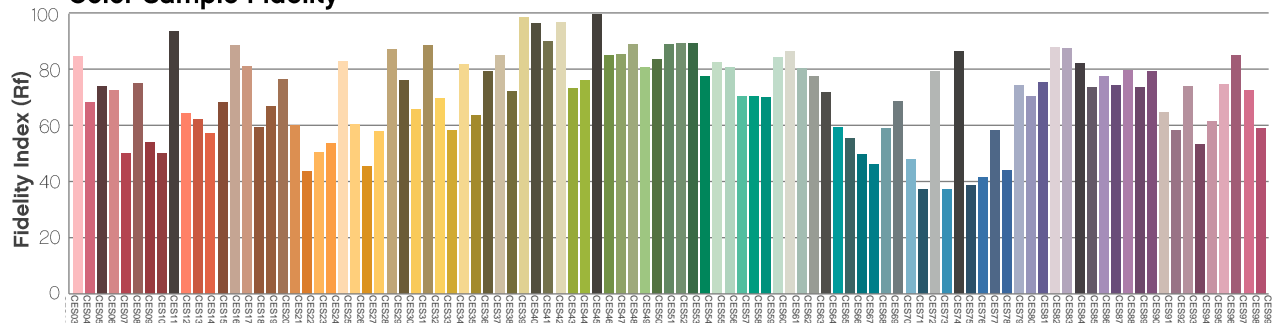
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Maverick MK1 Spot: Full Spot, Full Power Stable

Report Summary

Measurements

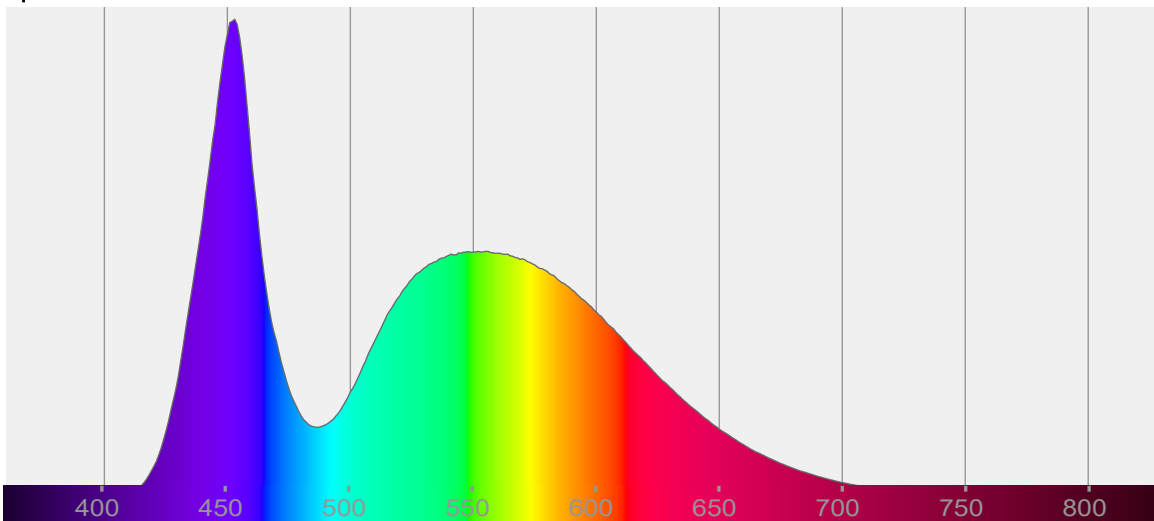
Total Lumens: 5964 lm
Peak Intensity: 620447 cd
Fixture Efficacy: 15 lm/W

Correlated Color Temperature: 6955K
 Δuv : 0.0008

CRI: 74.0 CRI R9 Value: -26.2
CQS: 71.3
TLCI: 52
TM-30-18 Rf: 71.9
TM-30-18 Rg: 92.1
1st Dominant Wavelength: 453 nm
2nd Dominant Wavelength: 555 nm



Spectral Distribution



Tested Color

6955 K

CIE 1931 Coordinates:
X: 0.306 Y: 0.324

Color Temperature

6955 K

Light Quality

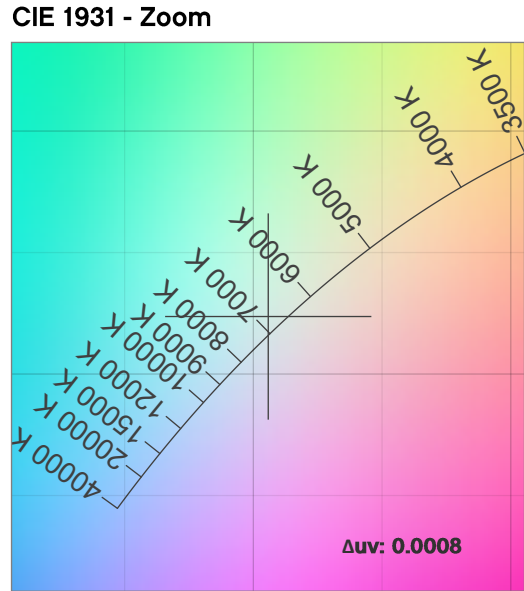
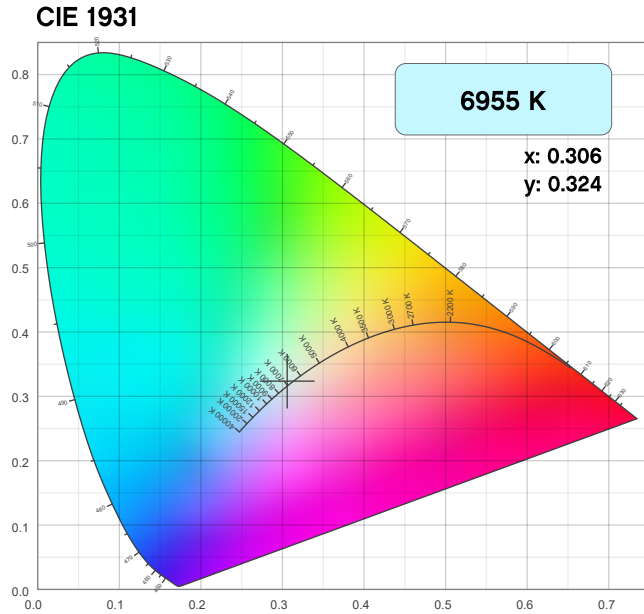
CRI: 74.0

Notes:

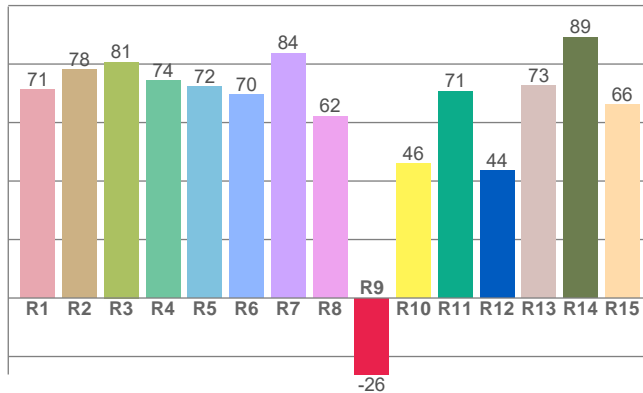
Chromaticity Report

Maverick MK1 Spot: Full Spot, Full Power Stable

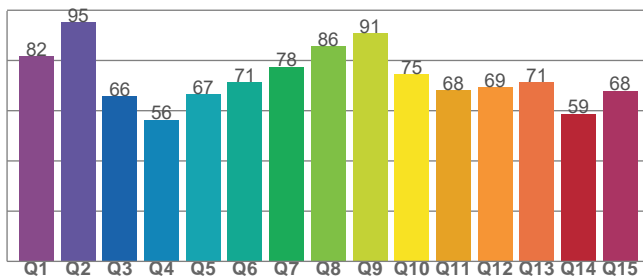
Chromaticity



CRI: 74.0 (R1-R8)



CQS: 71.3



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6955 K	0.306	0.324

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0008	0.324	0.195

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
74.0	-26.2	71.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
52	71.9	92.1

Chromaticity Report

Maverick MK1 Spot: Full Spot, Full Power Stable

TM-30-18 Details

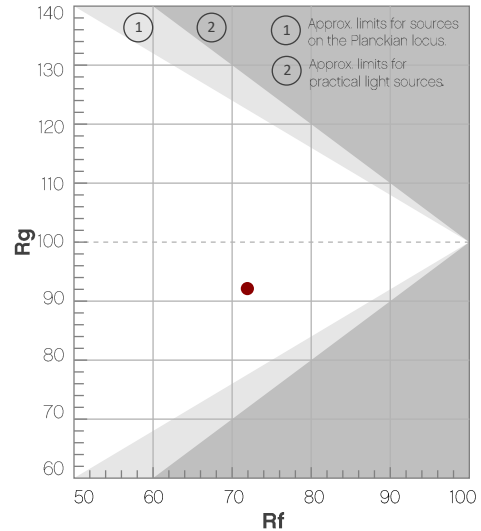
Rf 71.9

Fidelity Index
(R_f)

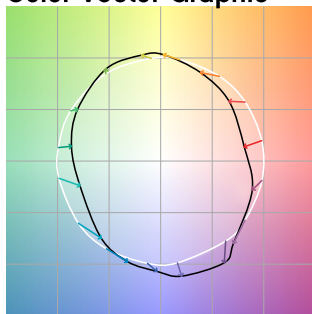
Rg 92.1

Gamut Index (R_g)

Hue Bin	R _f	Chroma Shift	Hue Shift
1	63	-18%	-3%
2	69	-13%	9%
3	67	-7%	17%
4	70	2%	16%
5	79	5%	9%
6	88	4%	-3%
7	88	-5%	-5%
8	76	-12%	-4%
9	73	-19%	11%
10	59	-10%	24%
11	47	-1%	24%
12	76	6%	10%
13	81	13%	2%
14	72	17%	-13%
15	65	3%	-25%
16	76	-7%	-11%



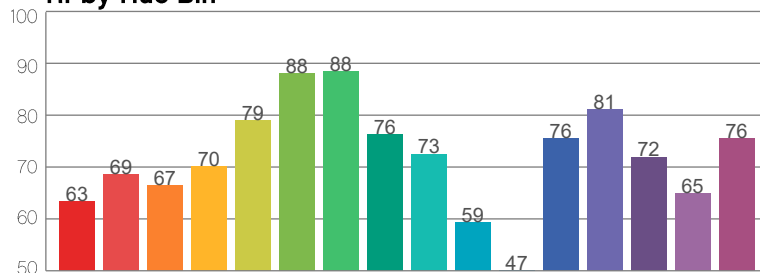
Color Vector Graphic



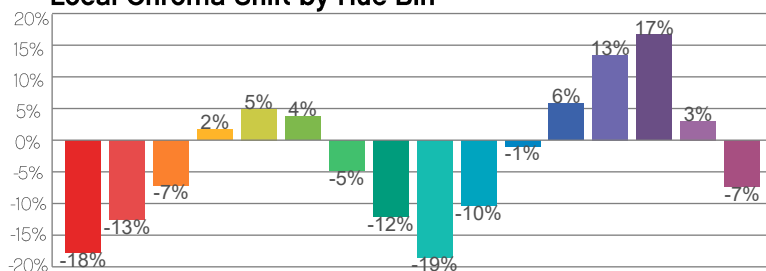
Color Distortion Graphic



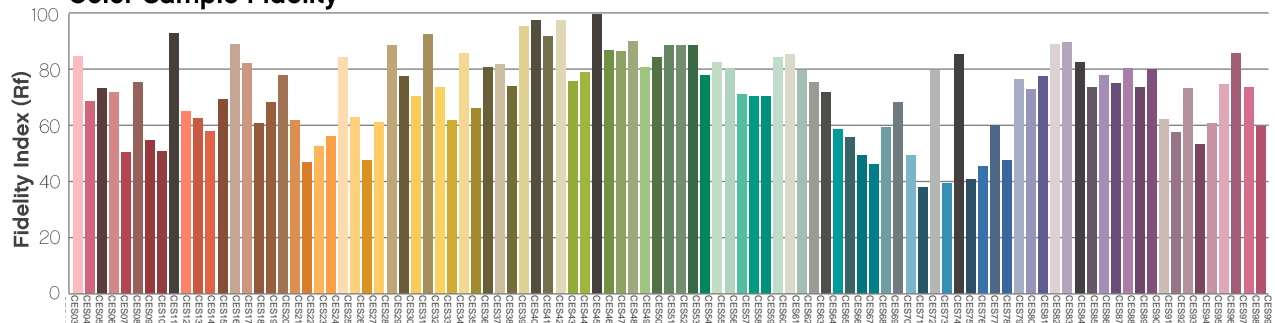
R_f by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Maverick MK1 Spot: 50% Zoom, Full Power

Report Summary

Measurements

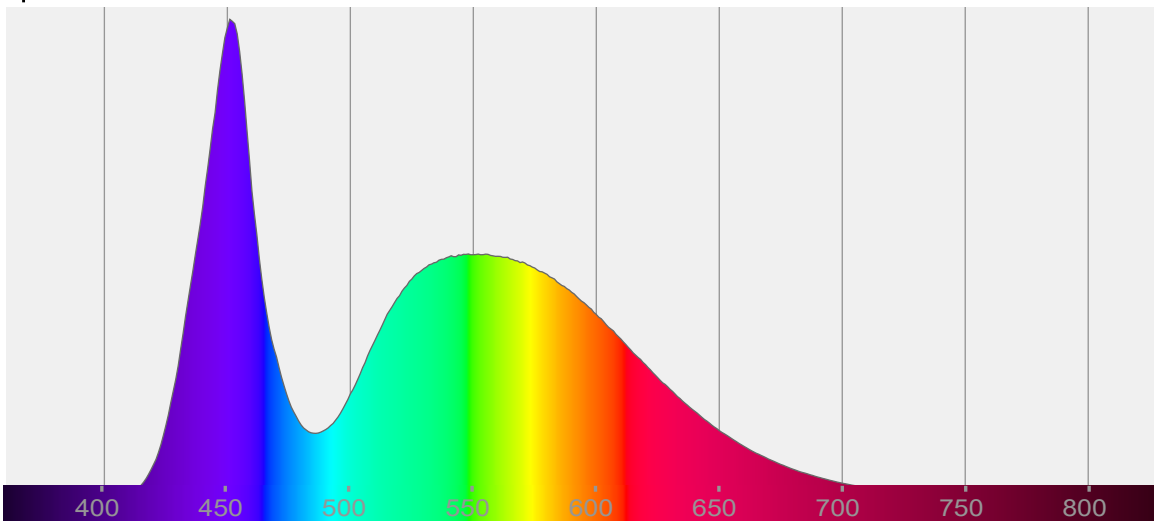
Total Lumens: 9619 lm
Peak Intensity: 171614 cd
Fixture Efficacy: 17 lm/W

Correlated Color Temperature: 6955K
 Δuv : 0.0008

CRI: 73.4 CRI R9 Value: -27.6
CQS: 71.1
TLCI: 51
TM-30-18 Rf: 71.3
TM-30-18 Rg: 92.6
1st Dominant Wavelength: 451 nm
2nd Dominant Wavelength: 548 nm



Spectral Distribution



Tested Color

6955 K

CIE 1931 Coordinates:
X: 0.306 Y: 0.324

Color Temperature

6955 K

Light Quality

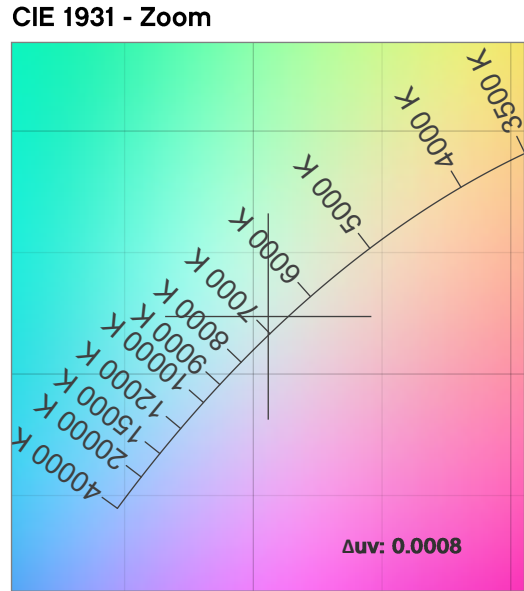
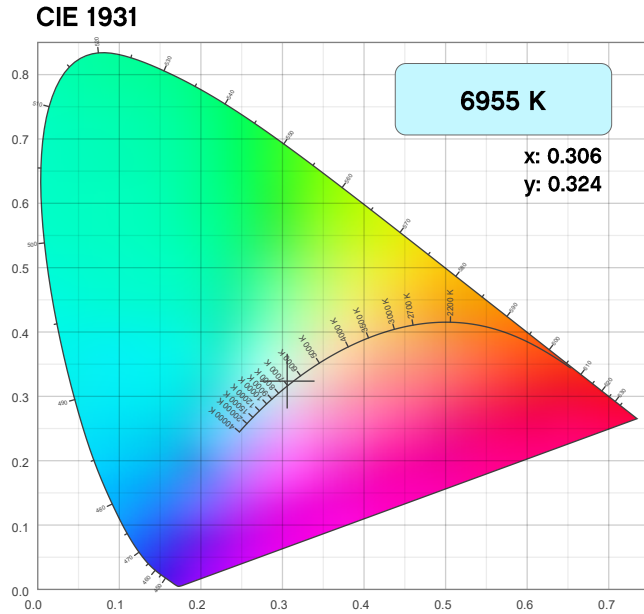
CRI: 73.4

Notes:

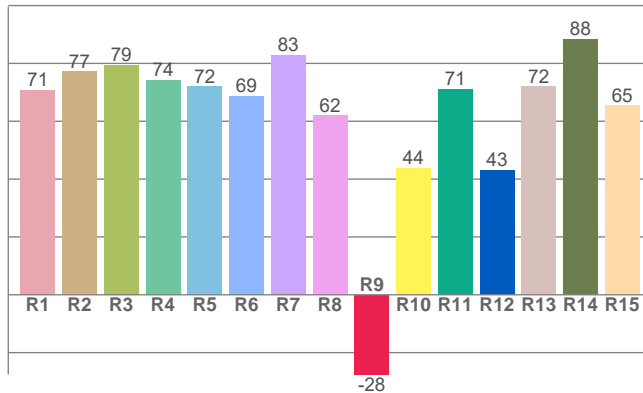
Chromaticity Report

Maverick MK1 Spot: 50% Zoom, Full Power

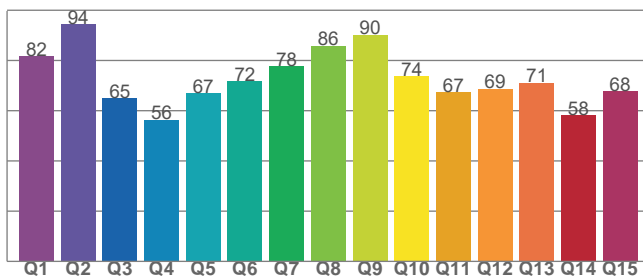
Chromaticity



CRI: 73.4 (R1-R8)



CQS: 71.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6955 K	0.306	0.324

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0008	0.324	0.195

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
73.4	-27.6	71.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
51	71.3	92.6

Chromaticity Report

Maverick MK1 Spot: 50% Zoom, Full Power

TM-30-18 Details

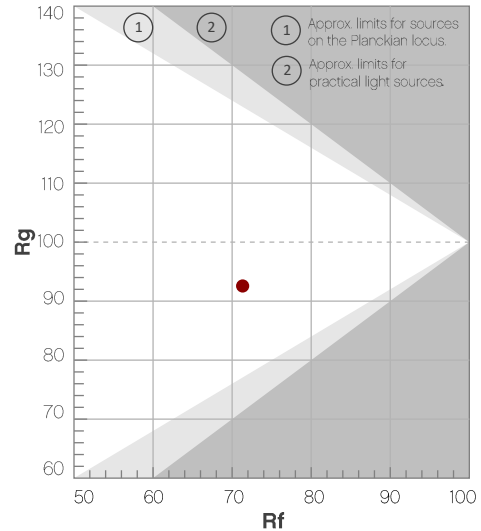
Rf 71.3

Fidelity Index
(R_f)

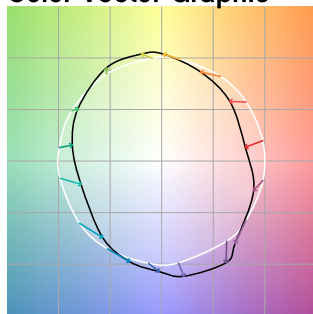
Rg 92.6

Gamut Index (R_g)

Hue Bin	R _f	Chroma Shift	Hue Shift
1	63	-18%	-3%
2	68	-13%	9%
3	65	-7%	18%
4	69	2%	17%
5	78	6%	9%
6	87	5%	-3%
7	89	-4%	-5%
8	76	-12%	-5%
9	73	-19%	10%
10	59	-11%	24%
11	44	-2%	25%
12	74	6%	12%
13	81	14%	3%
14	72	17%	-12%
15	65	4%	-25%
16	75	-7%	-11%



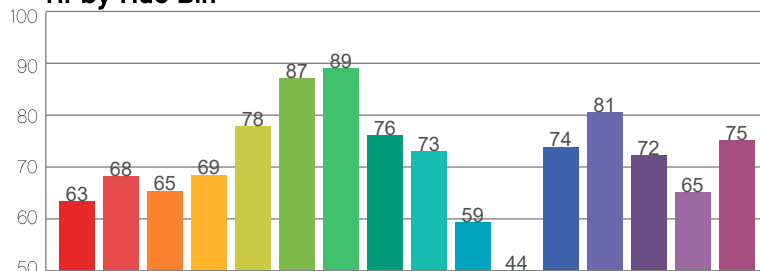
Color Vector Graphic



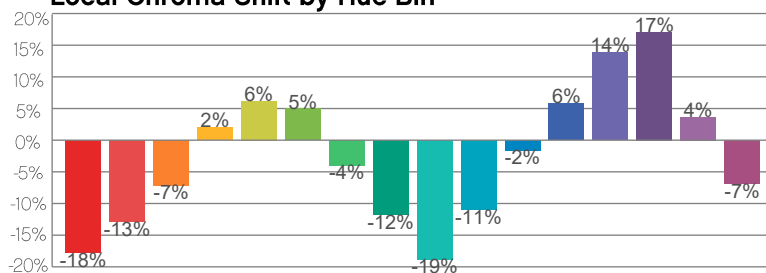
Color Distortion Graphic



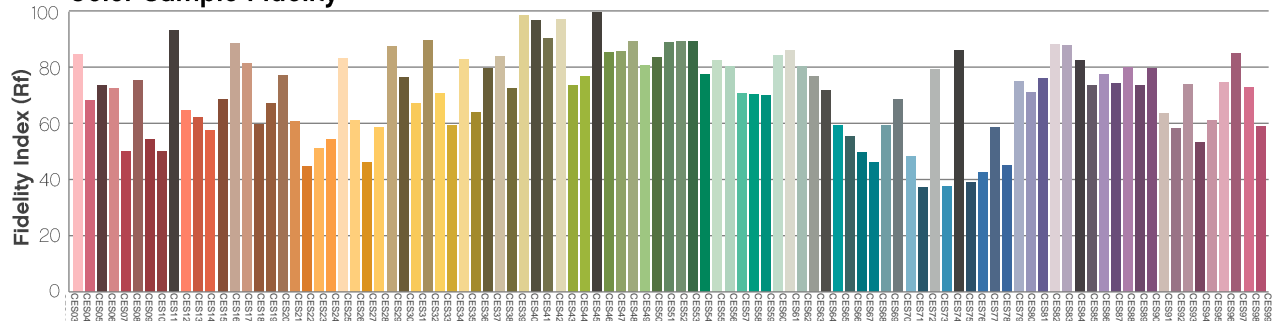
R_f by Hue Bin



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 US, UK, Ireland, Benelux, France, Germany, or Mexico, contact the dealer of the record.

