

PHOTOMETRICS REPORT

# MAVERICK

MK1 HYBRID



**CHAUVET**  
PROFESSIONAL

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## Testing Process

### Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion<sup>®</sup>, 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<sup>®</sup> 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<sup>®</sup> system every six months as recommended by Viso Systems.

# Photometric Report

Maverick MK1 Hybrid: Full Flood, Full Power

## Report Summary

### Output

Total Lumens: 41876 lm  
Peak Intensity: 684122 cd  
Illuminance @ 5m: 27365 lux  
Fixture Efficacy: 67 lm/W

### Optical

Horizontal Beam Angle (50%): 7.8°  
Vertical Beam Angle (50%): 7.8°  
Horizontal Field Angle (10%): 17.9°  
Vertical Field Angle (10%): 17.9°  
Horizontal Cutoff Angle (3%): 264.8°  
Vertical Cutoff Angle (3%): 264.8°

### Conditions

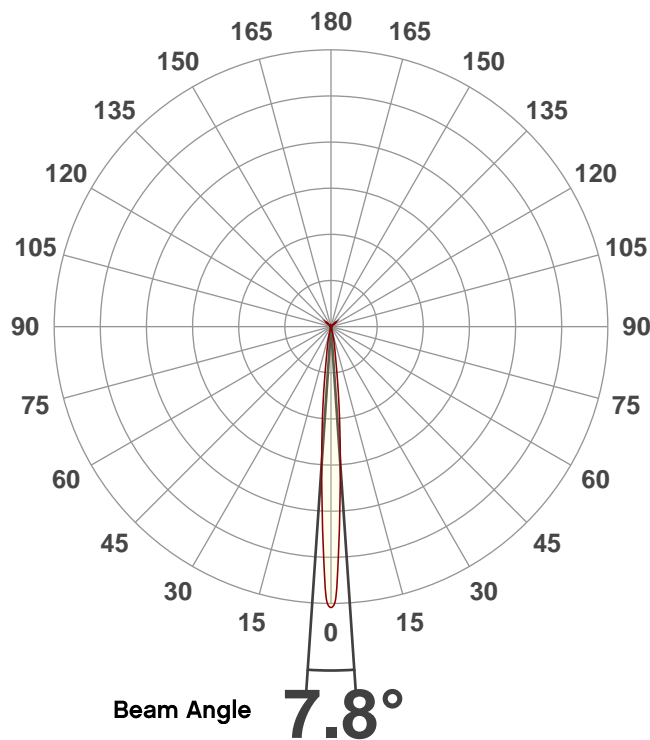
AC Supply: 116 V, 60 Hz  
Power: 643.24 W  
Current: 5.57 A  
Power Factor: 0.98



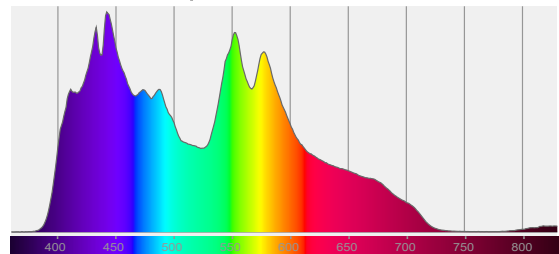
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/2/2020 to LM-63-2002 Standards.

## Overall Measurement

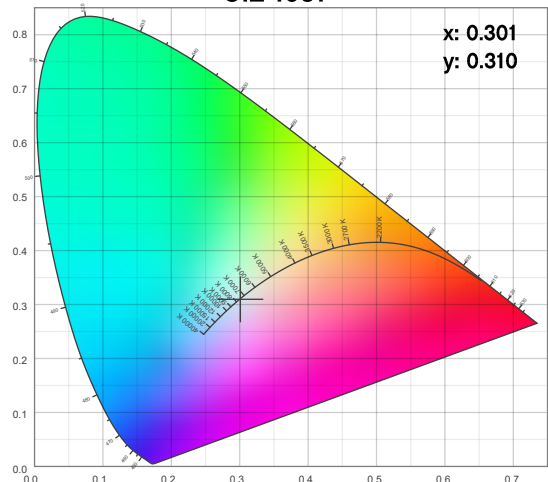
Angular Beam Distribution



Spectral Distribution



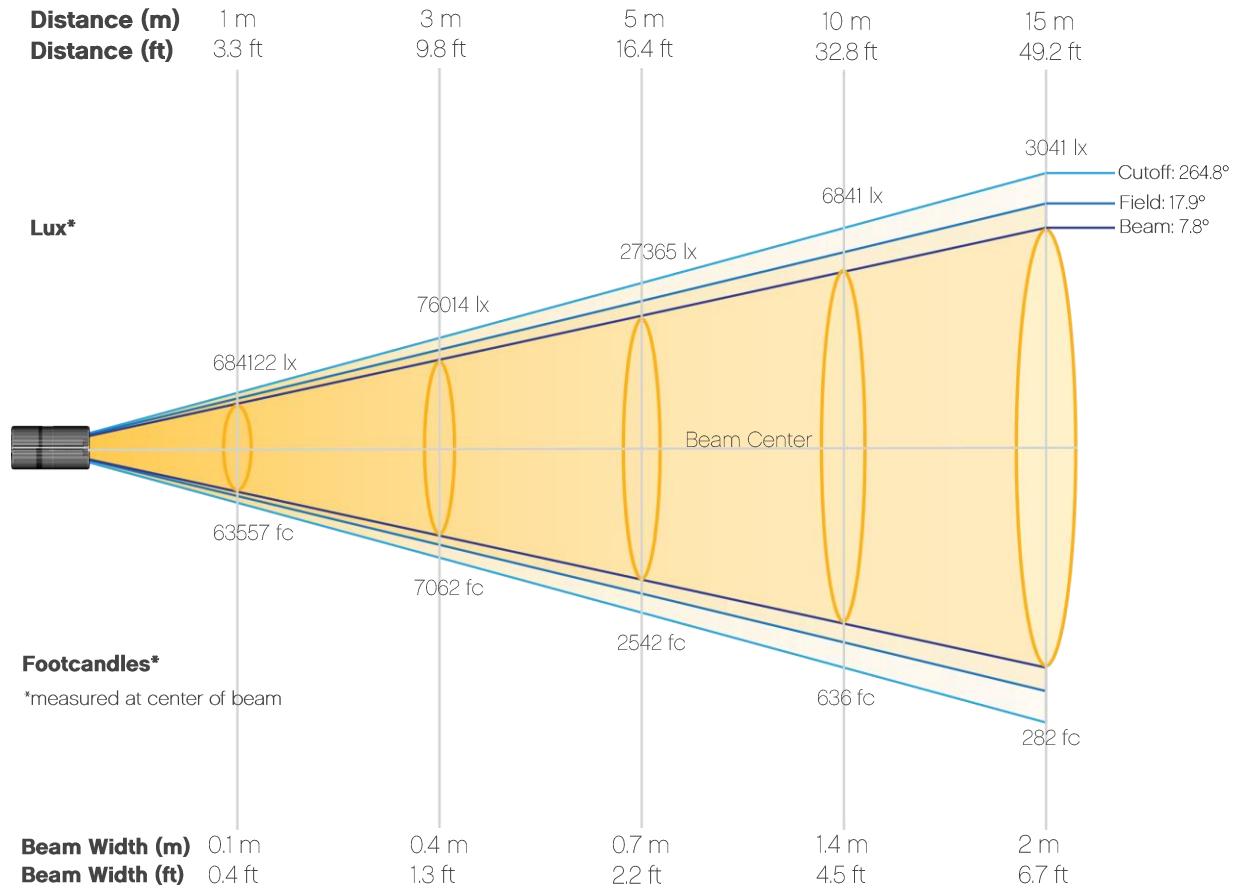
CIE 1931



# Photometric Report

## Maverick MK1 Hybrid: Full Flood, Full Power

### Beam Details

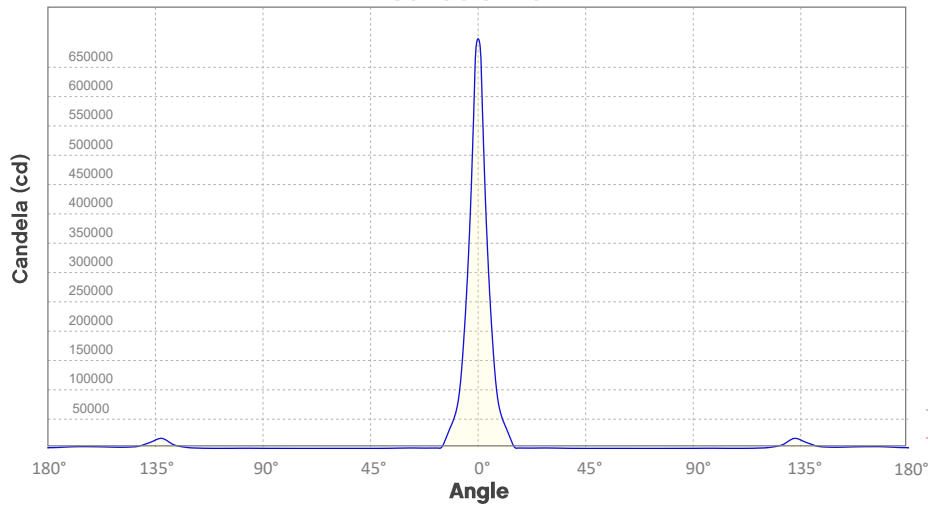


### Beam Illuminances from 1-20m (3.3-65.6ft)

<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	684122	171030	76014	42758	27365	19003	13962	10689	8446	6841
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	5654	4751	4048	3490	3041	2672	2367	2111	1895	1710
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	63557	15889	7062	3972	2542	1765	1297	993	785	636
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	525	441	376	324	282	248	220	196	176	159

# Photometric Report

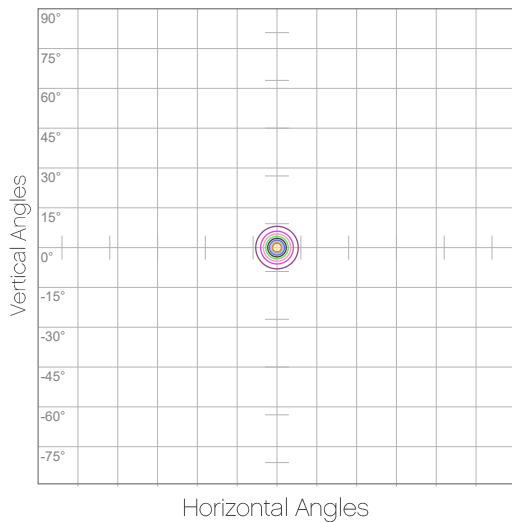
Maverick MK1 Hybrid: Full Flood, Full Power  
Candela Plot



Beam Angle (50%): 7.8°  
Field Angle (10%): 17.9°  
Cutoff Angle (3%): 264.8°

— Horizontal Distribution  
— Vertical Distribution

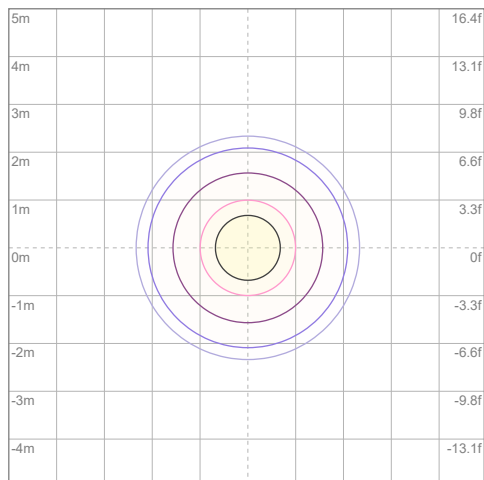
## Polar Diagrams



### iso-candela Diagram

10%	68412 cd
20%	136824 cd
30%	205237 cd
40%	273649 cd
50%	342061 cd
60%	410473 cd
70%	478885 cd
80%	547298 cd
90%	615710 cd

Conditions:  
Number of c-planes: 2  
Candela at center: 684122 cd



### iso-illuminance Diagram

3%	205 lx
5%	342 lx
10%	684 lx
30%	2052 lx
50%	3421 lx

Conditions:  
Number of c-planes: 2  
Lux at center: 6841 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 Hybrid: Full Spot, Full Power

## Report Summary

### Output

Total Lumens: 62682 lm  
Peak Intensity: 25509276 cd  
Illuminance @ 5m: 1020371 lux  
Fixture Efficacy: 96 lm/W

### Optical

Horizontal Beam Angle (50%): 1.3°  
Vertical Beam Angle (50%): 1.3°  
Horizontal Field Angle (10%): 2.8°  
Vertical Field Angle (10%): 2.8°  
Horizontal Cutoff Angle (3%): 4.1°  
Vertical Cutoff Angle (3%): 4.1°

### Conditions

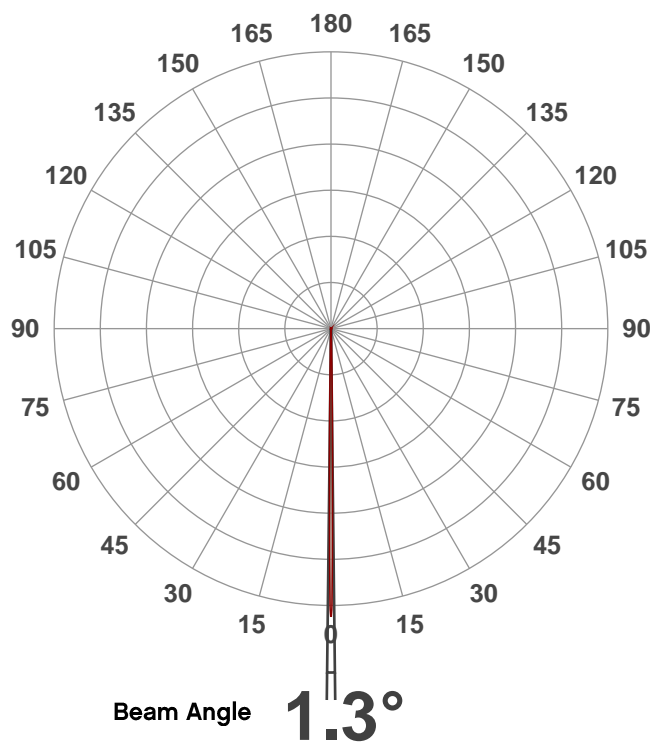
AC Supply: 115 V, 60 Hz  
Power: 650.47 W  
Current: 5.64 A  
Power Factor: 1.0



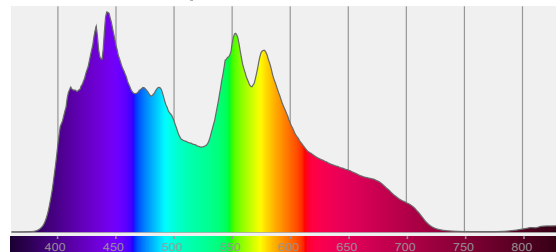
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/2/2020 to LM-63-2002 Standards.

## Overall Measurement

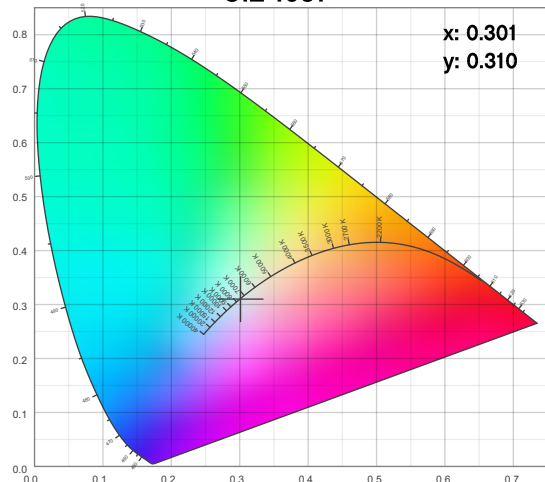
Angular Beam Distribution



Spectral Distribution



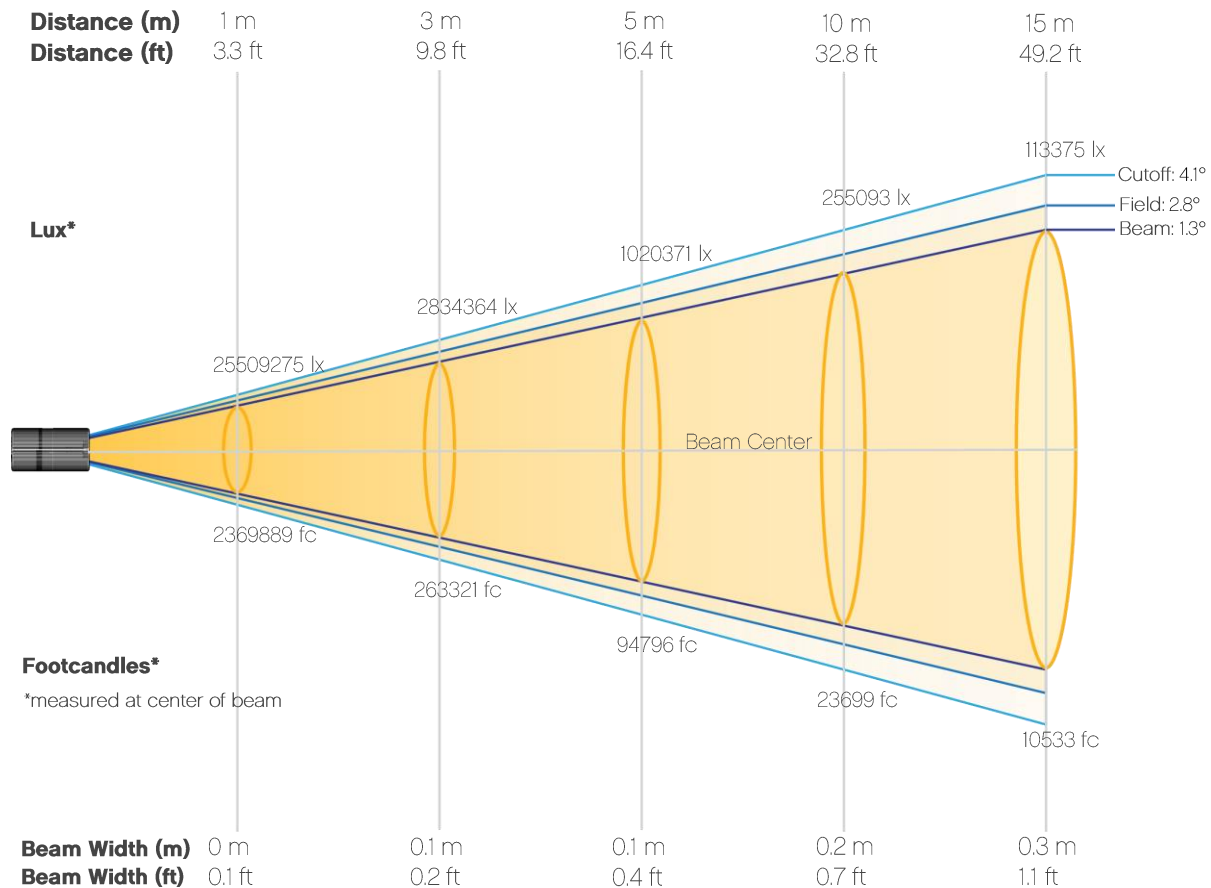
CIE 1931



# Photometric Report

## Maverick MK1 Hybrid: Full Spot, Full Power

### Beam Details

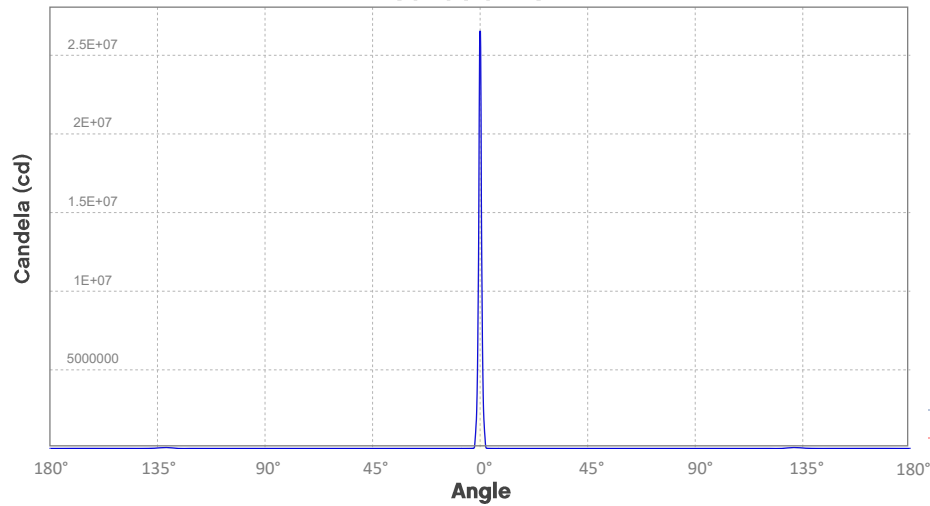


### Beam Illuminances from 1-20m (3.3-65.6ft)

<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	25509 275	6377319	2834364	1594330	1020371	708591	520597	398582	314929	255093
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	210820	177148	150942	130149	113375	99646	88267	78732	70663	63773
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	23698 89	592472	263321	148118	94796	65830	48365	37030	29258	23699
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	19586	16458	14023	12091	10533	9257	8200	7314	6565	5925

# Photometric Report

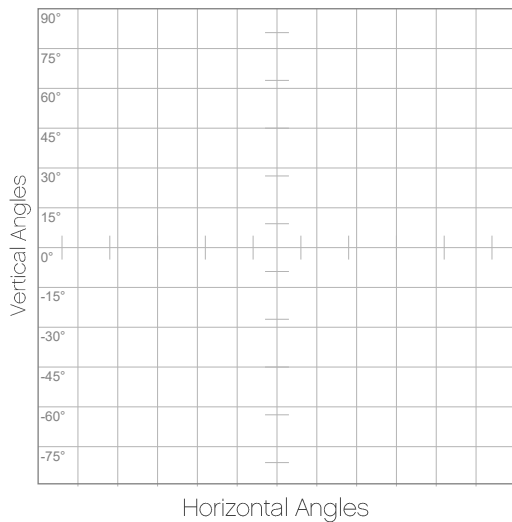
Maverick MK1 Hybrid: Full Spot, Full Power  
Candela Plot



Beam Angle (50%): 1.3°  
Field Angle (10%): 2.8°  
Cutoff Angle (3%): 4.1°

— Horizontal Distribution  
— Vertical Distribution

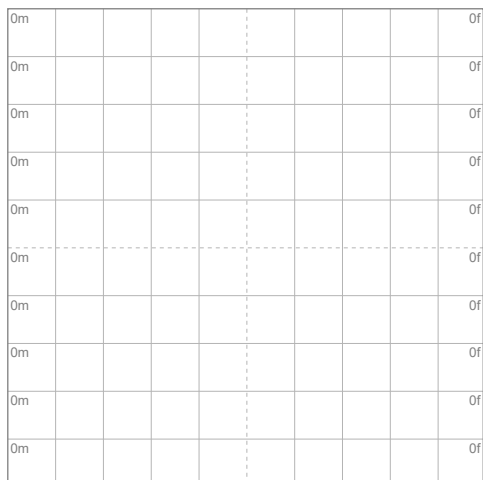
## Polar Diagrams



### iso-candela Diagram

10%	2550928 cd
20%	5101855 cd
30%	7652783 cd
40%	10203710 cd
50%	12754638 cd
60%	15305565 cd
70%	17856493 cd
80%	20407420 cd
90%	22958348 cd

Conditions:  
Number of c-planes: 2  
Candela at center: 25509275 cd



### iso-illuminance Diagram

3%	7653 lx
5%	12.8K lx
10%	25.5K lx
30%	76.5K lx
50%	128K lx

Conditions:  
Number of c-planes: 2  
Lux at center: 255K 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 Hybrid: Beam Mode, Full Power

## Report Summary

### Output

Total Lumens: 54938 lm  
Peak Intensity: 42894368 cd  
Illuminance @ 5m: 1715775 lux  
Fixture Efficacy: 85 lm/W

### Optical

Horizontal Beam Angle (50%): 1°  
Vertical Beam Angle (50%): 1°  
Horizontal Field Angle (10%): 2.1°  
Vertical Field Angle (10%): 2.1°  
Horizontal Cutoff Angle (3%): 2.8°  
Vertical Cutoff Angle (3%): 2.8°

### Conditions

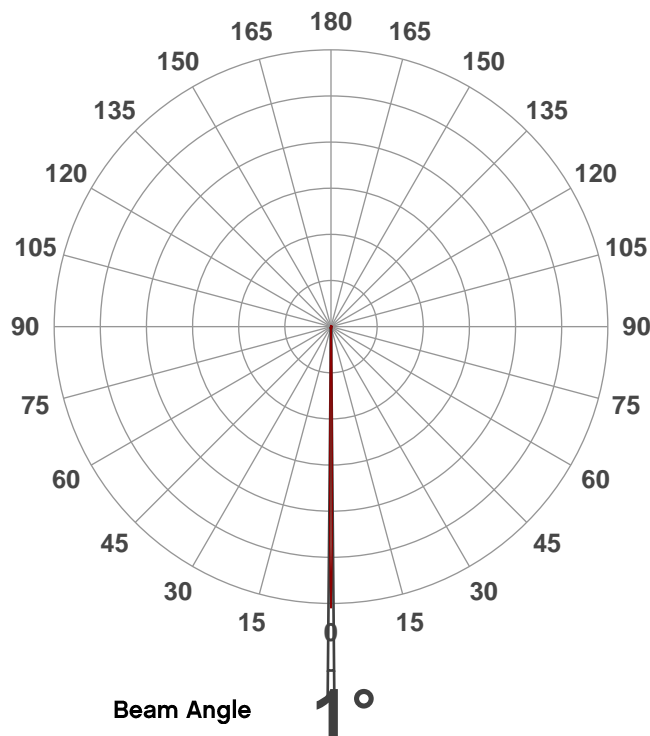
AC Supply: 116 V, 60 Hz  
Power: 645.53 W  
Current: 5.56 A  
Power Factor: 1.0



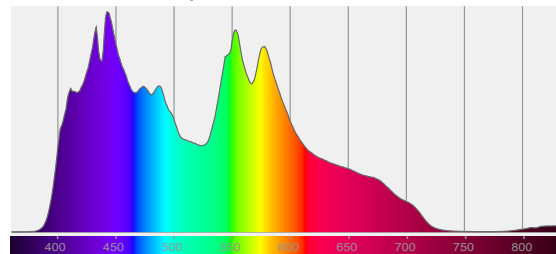
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## Overall Measurement

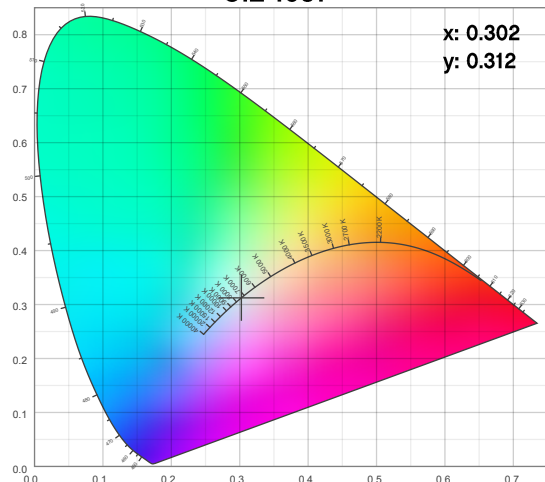
Angular Beam Distribution



Spectral Distribution



CIE 1931

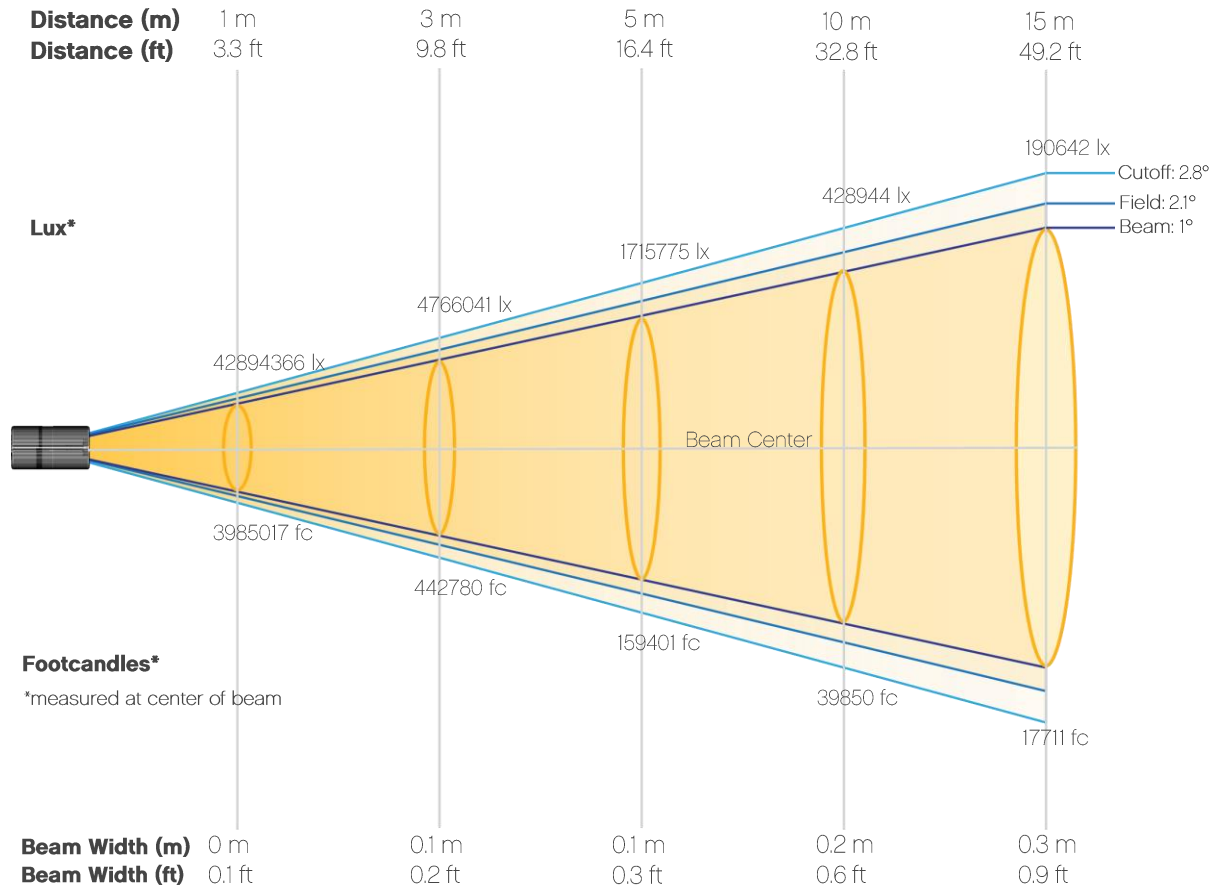




# Photometric Report

## Maverick MK1 Hybrid: Beam Mode, Full Power

### Beam Details



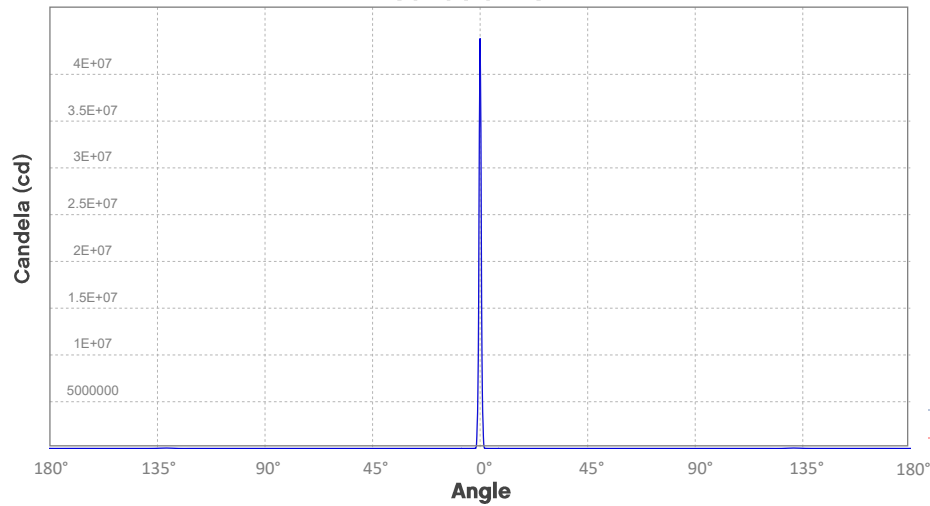
### Beam Illuminances from 1-20m (3.3-65.6ft)

<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	42894 366	10723592	4766041	2680898	1715775	1191510	875395	670224	529560	428944
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	35449 9	297878	253813	218849	190642	167556	148423	132390	118821	107236
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	398501 7	996254	442780	249064	159401	110695	81327	62266	49198	39850
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	32934	27674	23580	20332	17711	15566	13789	12299	11039	9963

# Photometric Report

Maverick MK1 Hybrid: Beam Mode, Full Power

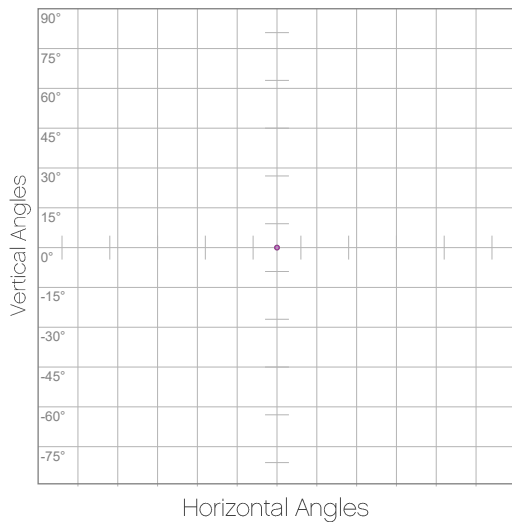
## Candela Plot



Beam Angle (50%): 1°  
Field Angle (10%): 2.1°  
Cutoff Angle (3%): 2.8°

— Horizontal Distribution  
— Vertical Distribution

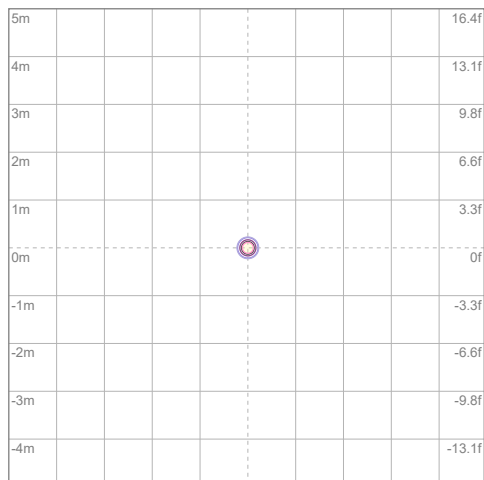
## Polar Diagrams



### iso-candela Diagram

10%	4289437 cd
20%	8578873 cd
30%	12868310 cd
40%	17157747 cd
50%	21447183 cd
60%	25736620 cd
70%	30026056 cd
80%	34315493 cd
90%	38604930 cd

Conditions:  
Number of c-planes: 2  
Candela at center: 42894366 cd



### iso-illuminance Diagram

3%	12.9K lx
5%	21.4K lx
10%	42.9K lx
30%	129K lx
50%	214K lx

Conditions:  
Number of c-planes: 2  
Lux at center: 429K 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 Hybrid: Wash Mode - Wide, Full Power

## Report Summary

### Output

Total Lumens: 19538 lm  
Peak Intensity: 69646 cd  
Illuminance @ 5m: 2786 lux  
Fixture Efficacy: 34 lm/W

### Optical

Horizontal Beam Angle (50%): 23.5°  
Vertical Beam Angle (50%): 23.5°  
Horizontal Field Angle (10%): 42.6°  
Vertical Field Angle (10%): 42.6°  
Horizontal Cutoff Angle (3%): 290.3°  
Vertical Cutoff Angle (3%): 290.3°

### Conditions

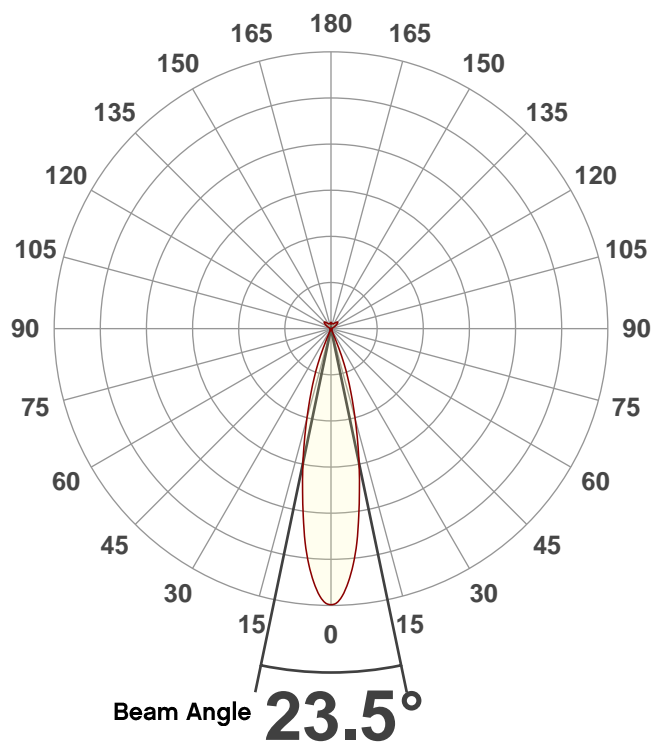
AC Supply: 116 V, 60 Hz  
Power: 575.13 W  
Current: 4.96 A  
Power Factor: 1.0



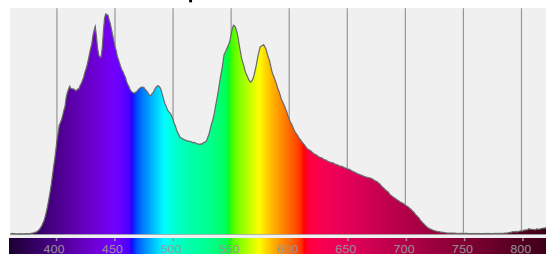
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/2/2020 to LM-63-2002 Standards.

## Overall Measurement

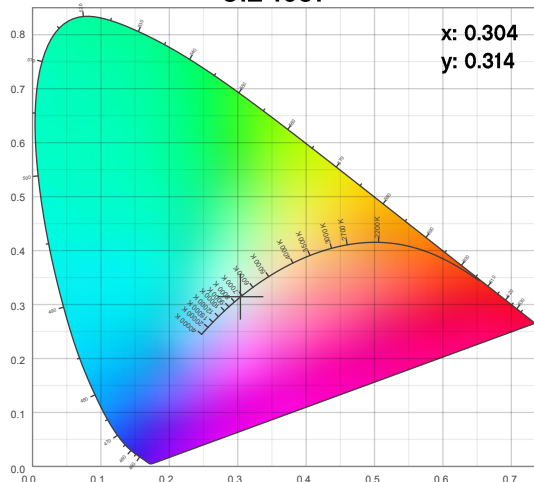
Angular Beam Distribution



Spectral Distribution



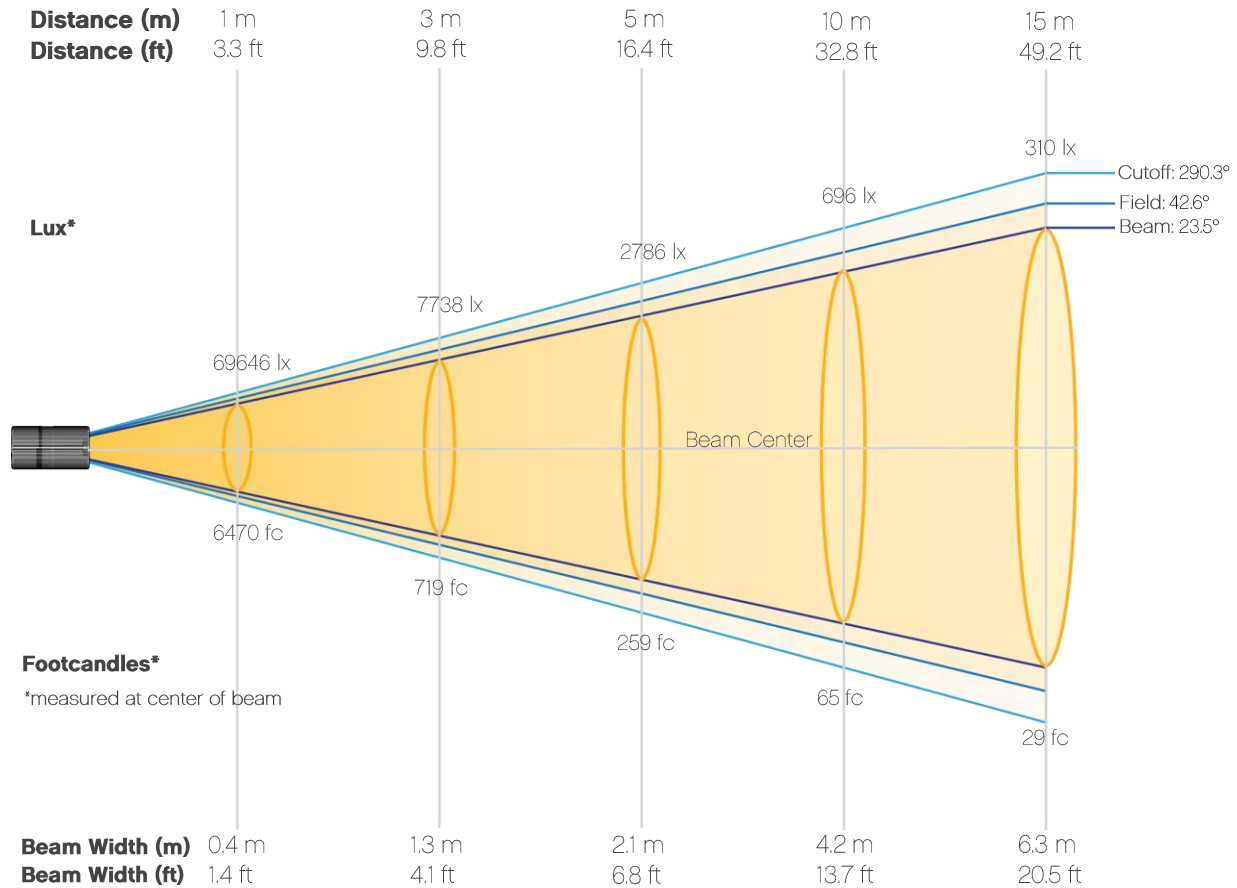
CIE 1931



# Photometric Report

Maverick MK1 Hybrid: Wash Mode - Wide, Full Power

## Beam Details



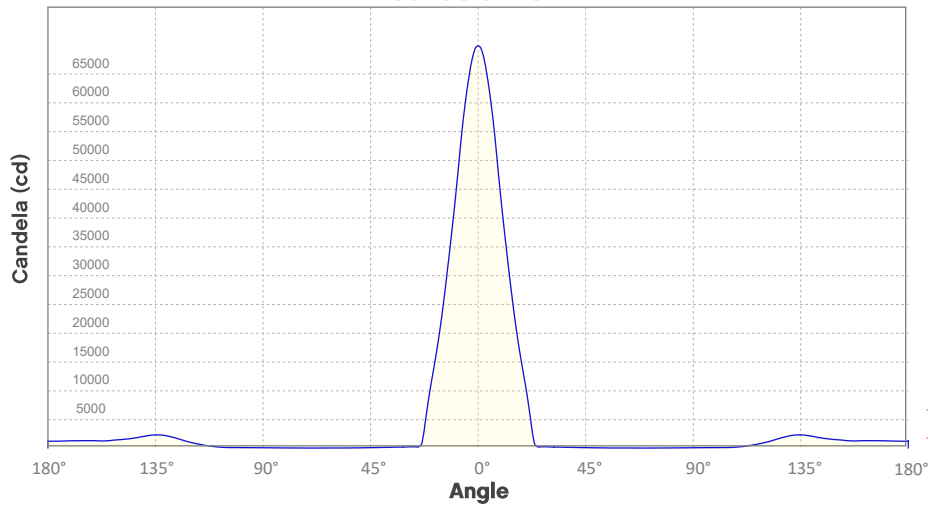
### Beam Illuminances from 1-20m (3.3-65.6ft)

<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	69646	17411	7738	4353	2786	1935	1421	1088	860	696
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	576	484	412	355	310	272	241	215	193	174
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	6470	1618	719	404	259	180	132	101	80	65
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	53	45	38	33	29	25	22	20	18	16

# Photometric Report

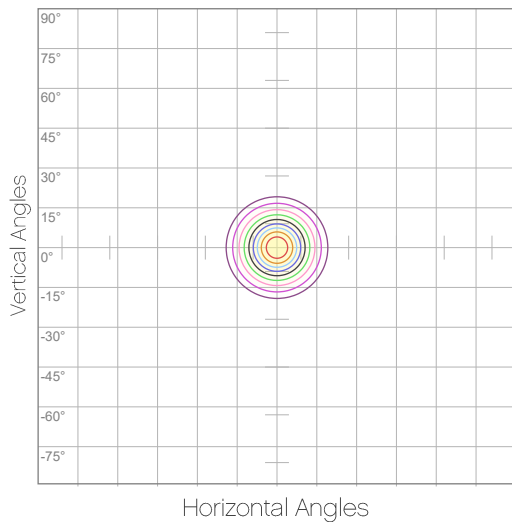
Maverick MK1 Hybrid: Wash Mode - Wide, Full Power

## Candela Plot



Beam Angle (50%): 23.5°  
Field Angle (10%): 42.6°  
Cutoff Angle (3%): 290.3°

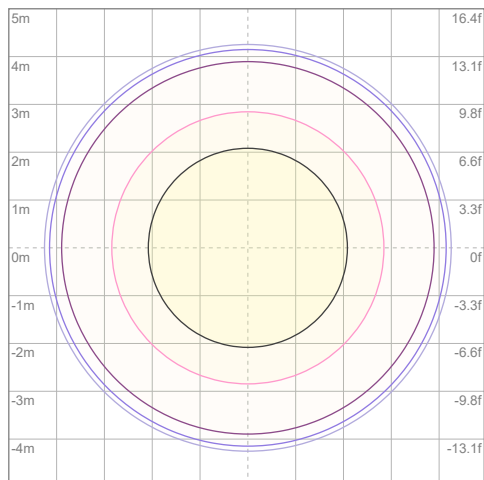
## Polar Diagrams



### iso-candela Diagram

10%	6965 cd
20%	13929 cd
30%	20894 cd
40%	27858 cd
50%	34823 cd
60%	41787 cd
70%	48752 cd
80%	55717 cd
90%	62681 cd

Conditions:  
Number of c-planes: 2  
Candela at center: 69646 cd



### iso-illuminance Diagram

3%	20.9 lx
5%	34.8 lx
10%	69.6 lx
30%	209 lx
50%	348 lx

Conditions:  
Number of c-planes: 2  
Lux at center: 696 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 Hybrid: Wash Mode - Medium, Full Power

## Report Summary

### Output

Total Lumens: 25145 lm  
Peak Intensity: 333467 cd  
Illuminance @ 5m: 13339 lux  
Fixture Efficacy: 39 lm/W

### Optical

Horizontal Beam Angle (50%): 10.5°  
Vertical Beam Angle (50%): 10.5°  
Horizontal Field Angle (10%): 21.4°  
Vertical Field Angle (10%): 21.4°  
Horizontal Cutoff Angle (3%): 26.1°  
Vertical Cutoff Angle (3%): 26.1°

### Conditions

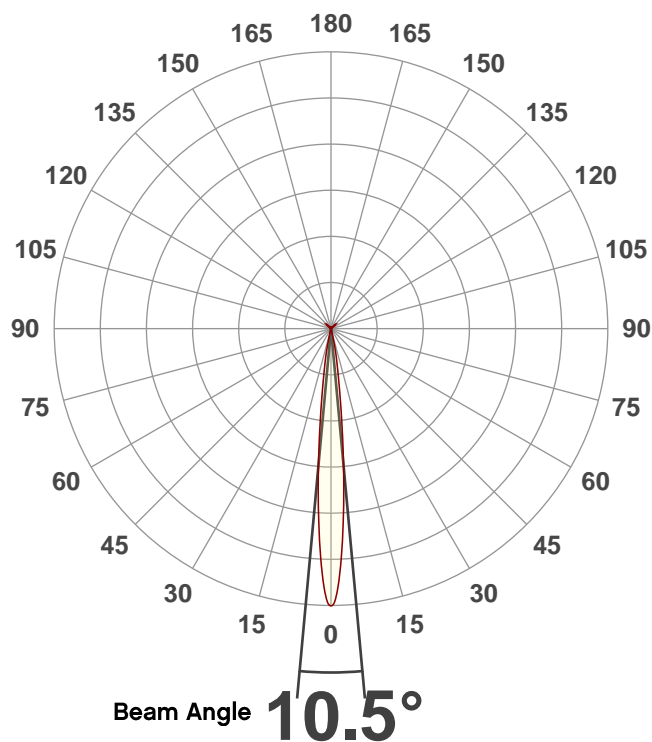
AC Supply: 116 V, 60 Hz  
Power: 646.6 W  
Current: 5.59 A  
Power Factor: 1.0



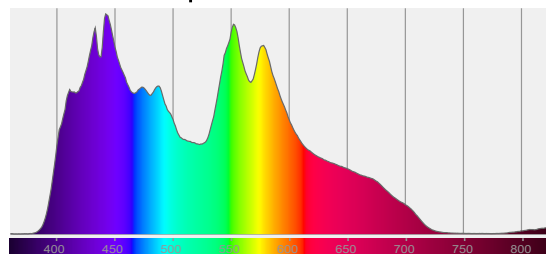
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/2/2020 to LM-63-2002 Standards.

## Overall Measurement

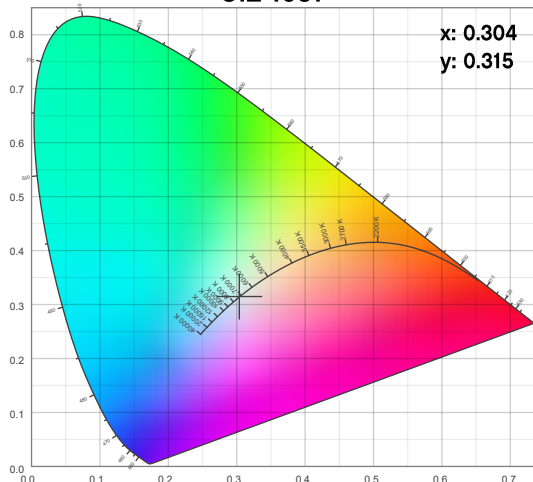
Angular Beam Distribution



Spectral Distribution



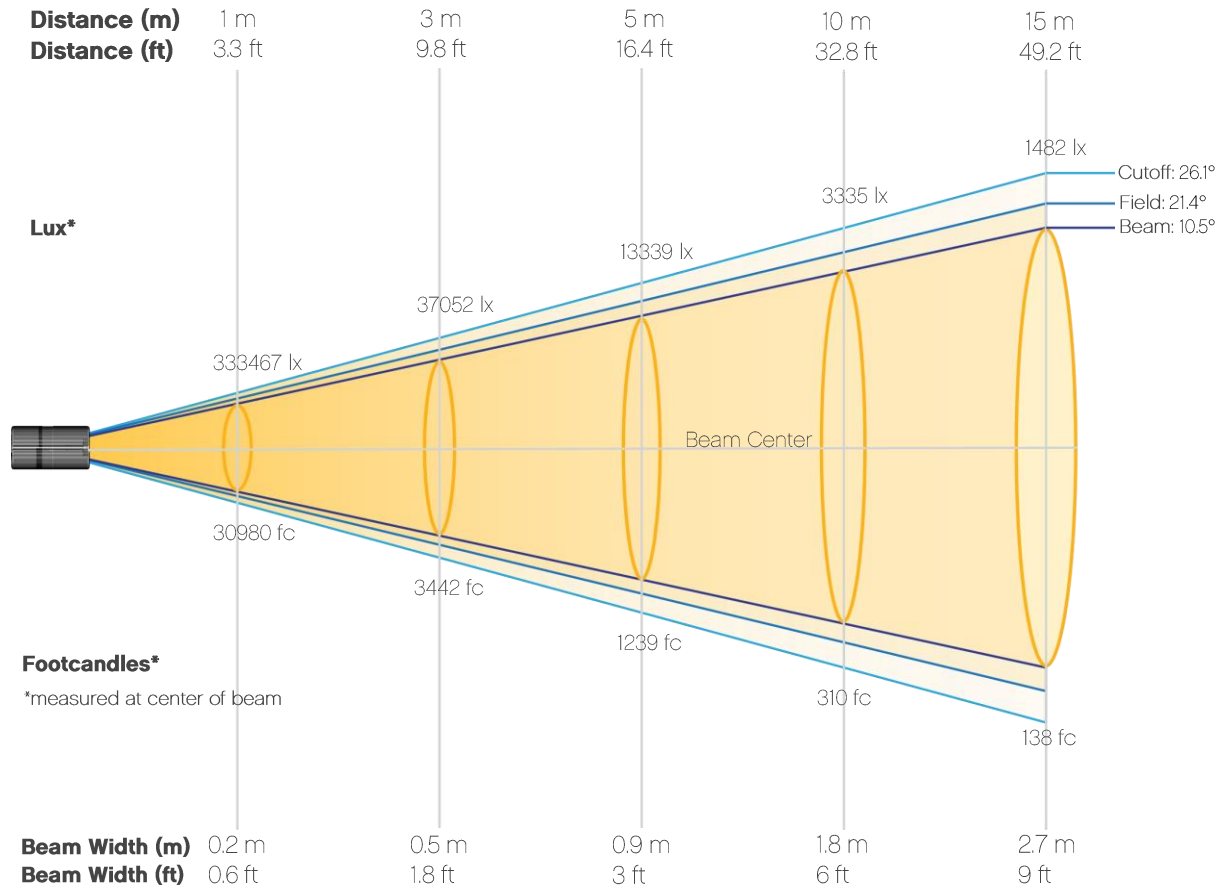
CIE 1931



# Photometric Report

Maverick MK1 Hybrid: Wash Mode - Wide, Full Power

## Beam Details

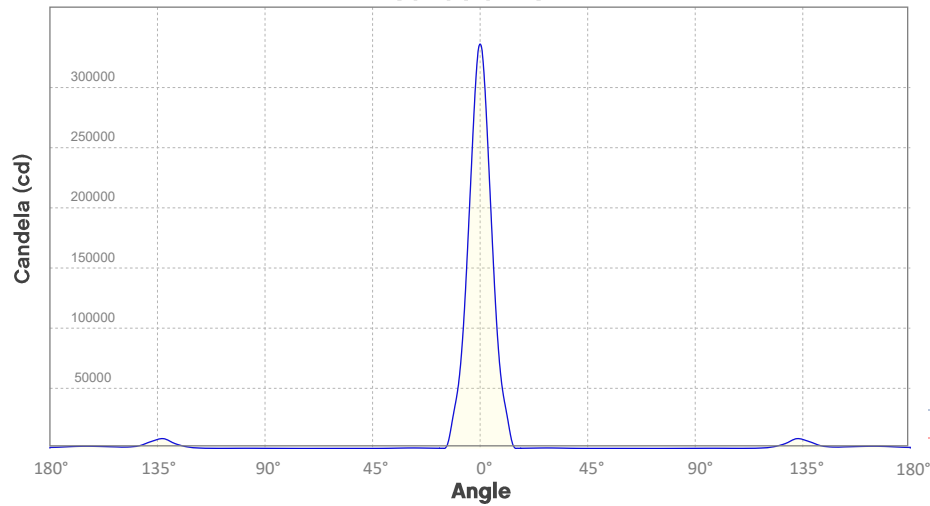


### Beam Illuminances from 1-20m (3.3-65.6ft)

<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	333467	83367	37052	20842	13339	9263	6805	5210	4117	3335
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	2756	2316	1973	1701	1482	1303	1154	1029	924	834
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	30980	7745	3442	1936	1239	861	632	484	382	310
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	256	215	183	158	138	121	107	96	86	77

# Photometric Report

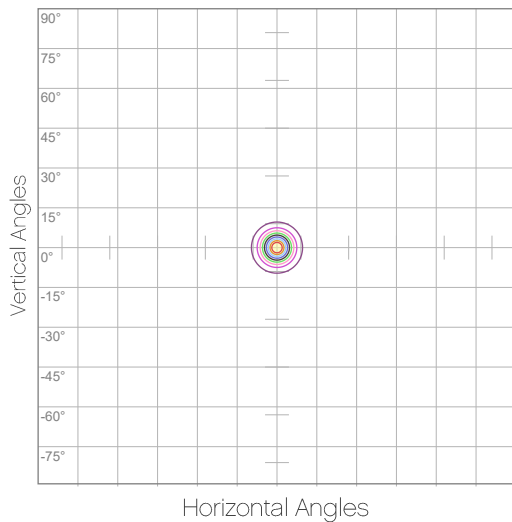
Maverick MK1 Hybrid: Wash Mode - Wide, Full Power  
Candela Plot



Beam Angle (50%): 10.5°  
Field Angle (10%): 21.4°  
Cutoff Angle (3%): 26.1°

— Horizontal Distribution  
— Vertical Distribution

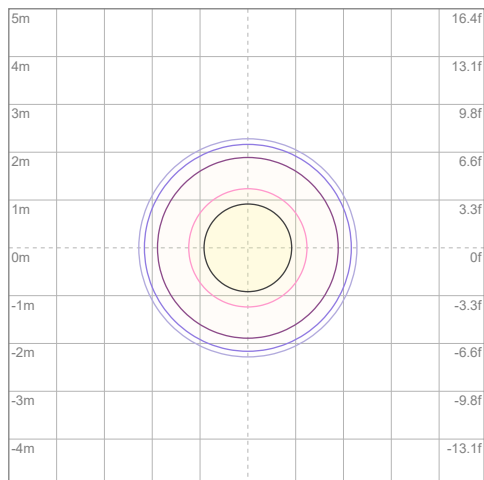
## Polar Diagrams



### iso-candela Diagram

10%	33347 cd
20%	66693 cd
30%	100040 cd
40%	133387 cd
50%	166733 cd
60%	200080 cd
70%	233427 cd
80%	266773 cd
90%	300120 cd

Conditions:  
Number of c-planes: 2  
Candela at center: 333467 cd



### iso-illuminance Diagram

3%	100 lx
5%	167 lx
10%	333 lx
30%	1000 lx
50%	1667 lx

Conditions:  
Number of c-planes: 2  
Lux at center: 3335 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 Hybrid: Wash Mode - Narrow, Full Power

## Report Summary

### Output

Total Lumens: 27147 lm  
Peak Intensity: 431019 cd  
Illuminance @ 5m: 17241 lux  
Fixture Efficacy: 48 lm/W

### Optical

Horizontal Beam Angle (50%): 9°  
Vertical Beam Angle (50%): 9°  
Horizontal Field Angle (10%): 19.1°  
Vertical Field Angle (10%): 19.1°  
Horizontal Cutoff Angle (3%): 24.1°  
Vertical Cutoff Angle (3%): 24.1°

### Conditions

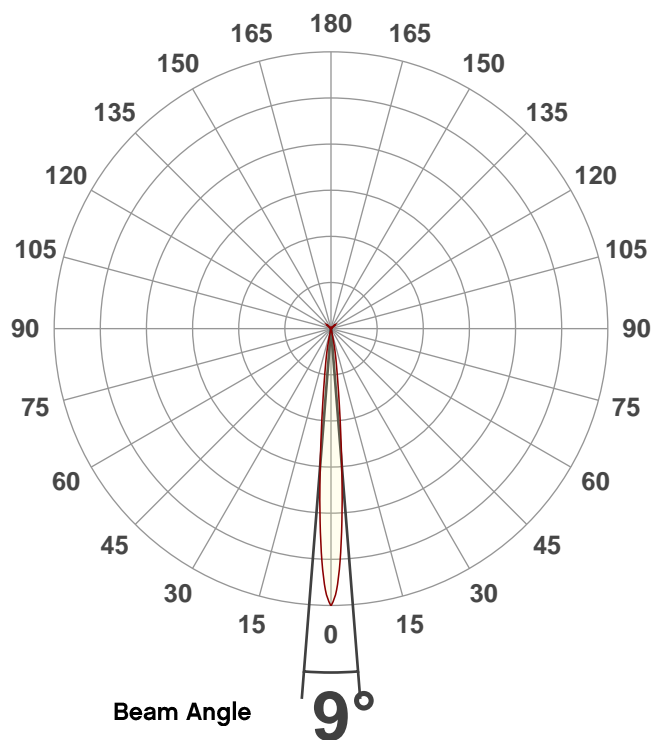
AC Supply: 116 V, 60 Hz  
Power: 570.02 W  
Current: 4.91 A  
Power Factor: 1.0



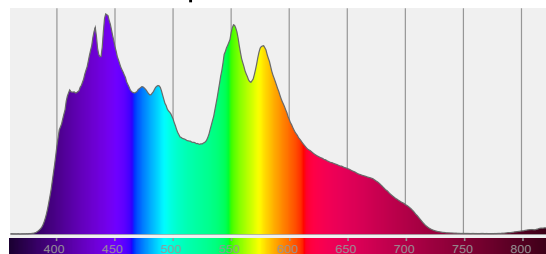
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/2/2020 to LM-63-2002 Standards.

## Overall Measurement

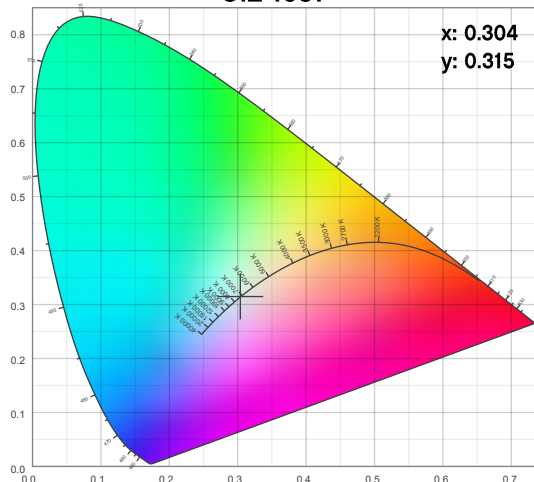
Angular Beam Distribution



Spectral Distribution



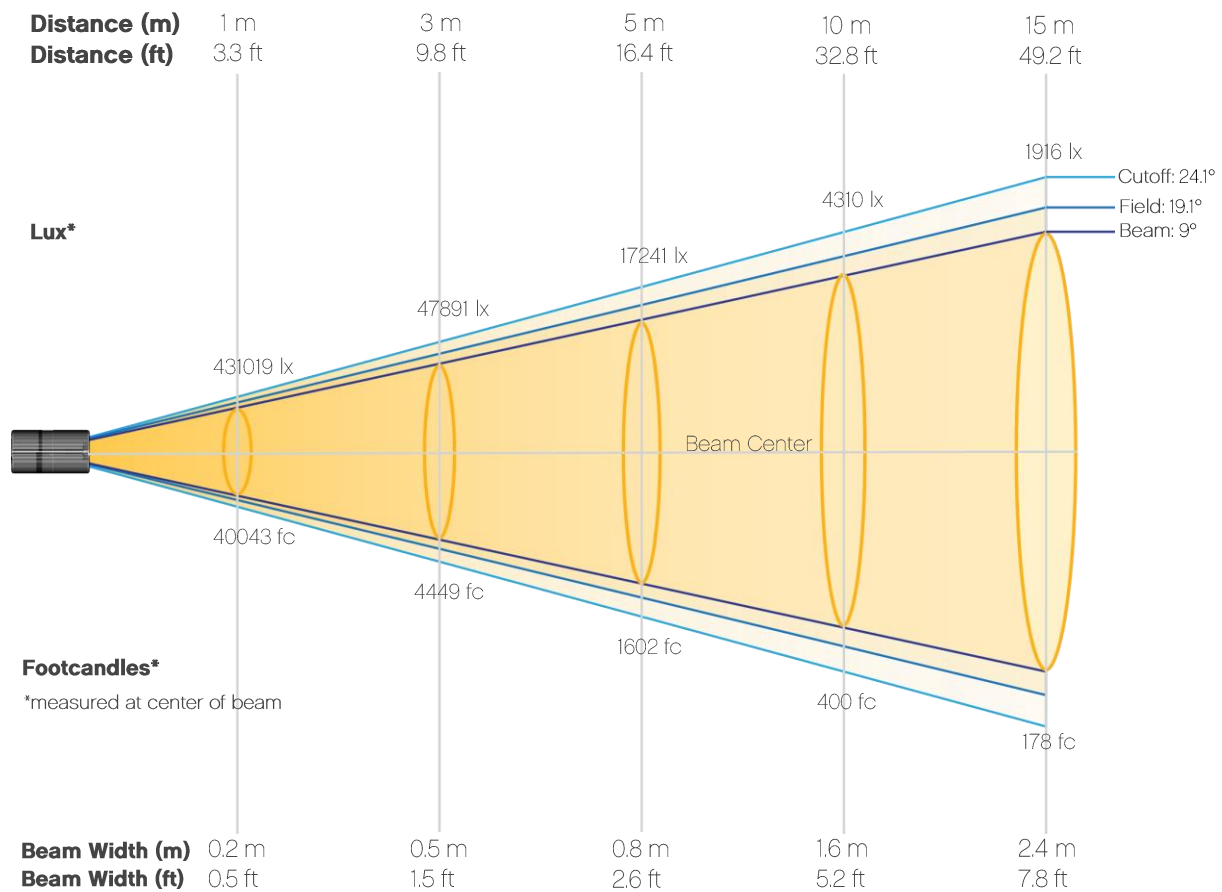
CIE 1931



# Photometric Report

Maverick MK1 Hybrid: Wash Mode - Narrow, Full Power

## Beam Details

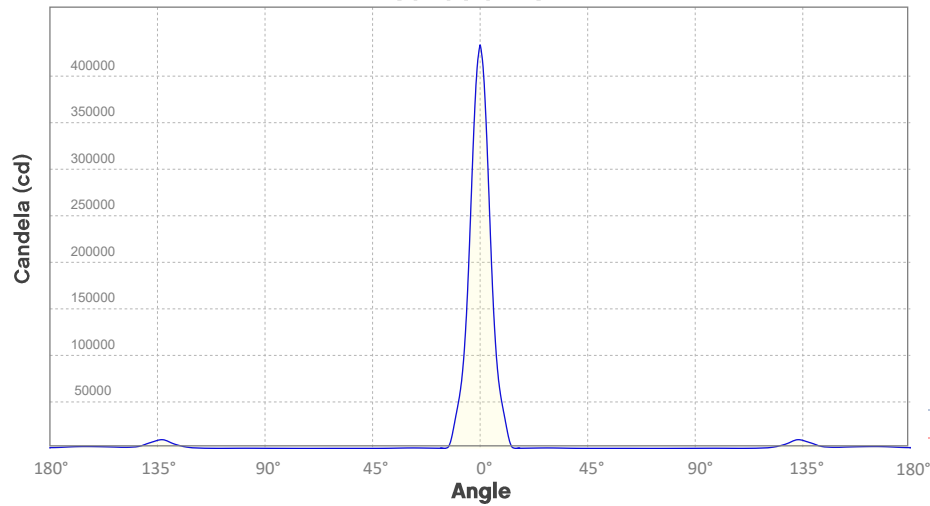


### Beam Illuminances from 1-20m (3.3-65.6ft)

<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	431019	107755	47891	26939	17241	11973	8796	6735	5321	4310
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	3562	2993	2550	2199	1916	1684	1491	1330	1194	1078
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	40043	10011	4449	2503	1602	1112	817	626	494	400
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	331	278	237	204	178	156	139	124	111	100

# Photometric Report

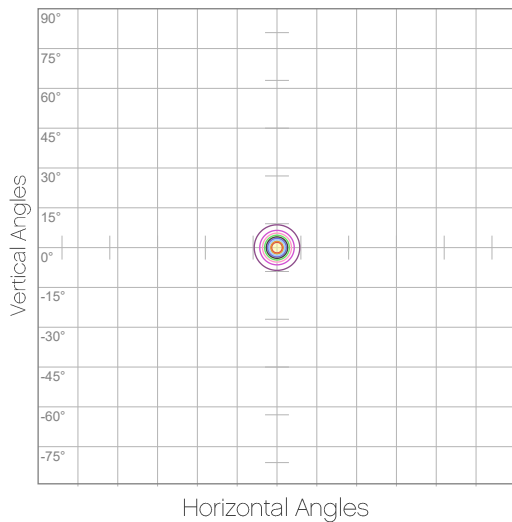
Maverick MK1 Hybrid: Wash Mode - Narrow, Full Power  
Candela Plot



Beam Angle (50%): 9°  
Field Angle (10%): 19.1°  
Cutoff Angle (3%): 24.1°

— Horizontal Distribution  
— Vertical Distribution

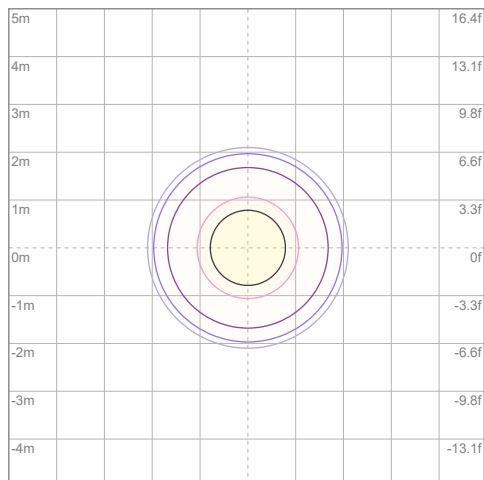
## Polar Diagrams



### iso-candela Diagram

10%	43102 cd
20%	86204 cd
30%	129306 cd
40%	172408 cd
50%	215510 cd
60%	258612 cd
70%	301714 cd
80%	344815 cd
90%	387917 cd

Conditions:  
Number of c-planes: 2  
Candela at center: 431019 cd



### iso-illuminance Diagram

3%	129 lx
5%	216 lx
10%	431 lx
30%	1293 lx
50%	2155 lx

Conditions:  
Number of c-planes: 2  
Lux at center: 4310 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 Hybrid: 50% Zoom, Full Power

## Report Summary

### Output

Total Lumens: 55093 lm  
Peak Intensity: 3240881 cd  
Illuminance @ 5m: 129635 lux  
Fixture Efficacy: 194 lm/W

### Optical

Horizontal Beam Angle (50%): 3.7°  
Vertical Beam Angle (50%): 3.7°  
Horizontal Field Angle (10%): 8.2°  
Vertical Field Angle (10%): 8.2°  
Horizontal Cutoff Angle (3%): 12.1°  
Vertical Cutoff Angle (3%): 12.1°

### Conditions

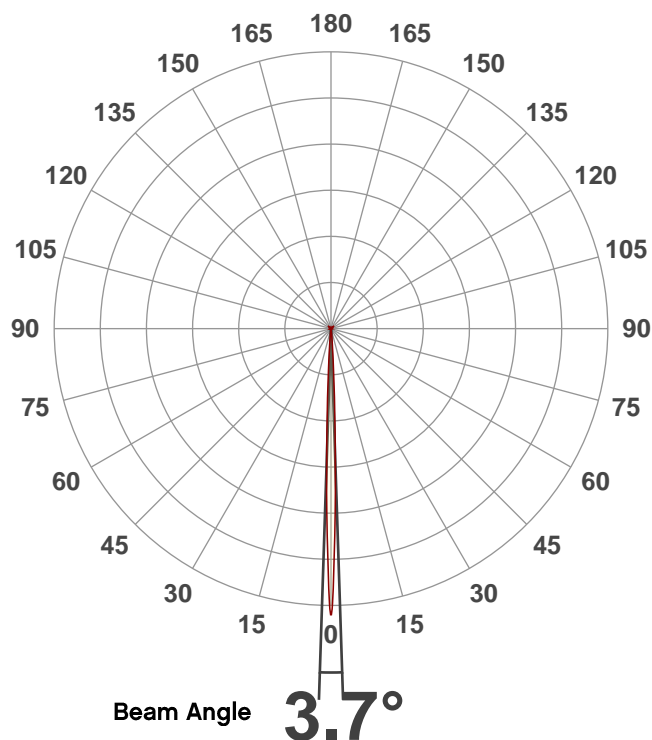
AC Supply: 116 V, 60 Hz  
Power: 563.4 W  
Current: 4.85 A  
Power Factor: 0.51



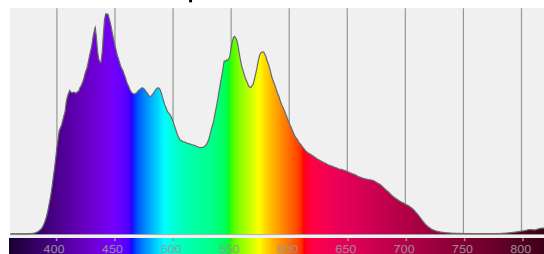
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/2/2020 to LM-63-2002 Standards.

## Overall Measurement

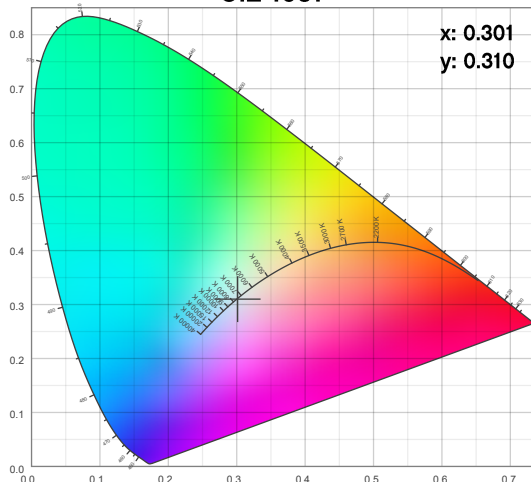
Angular Beam Distribution



Spectral Distribution



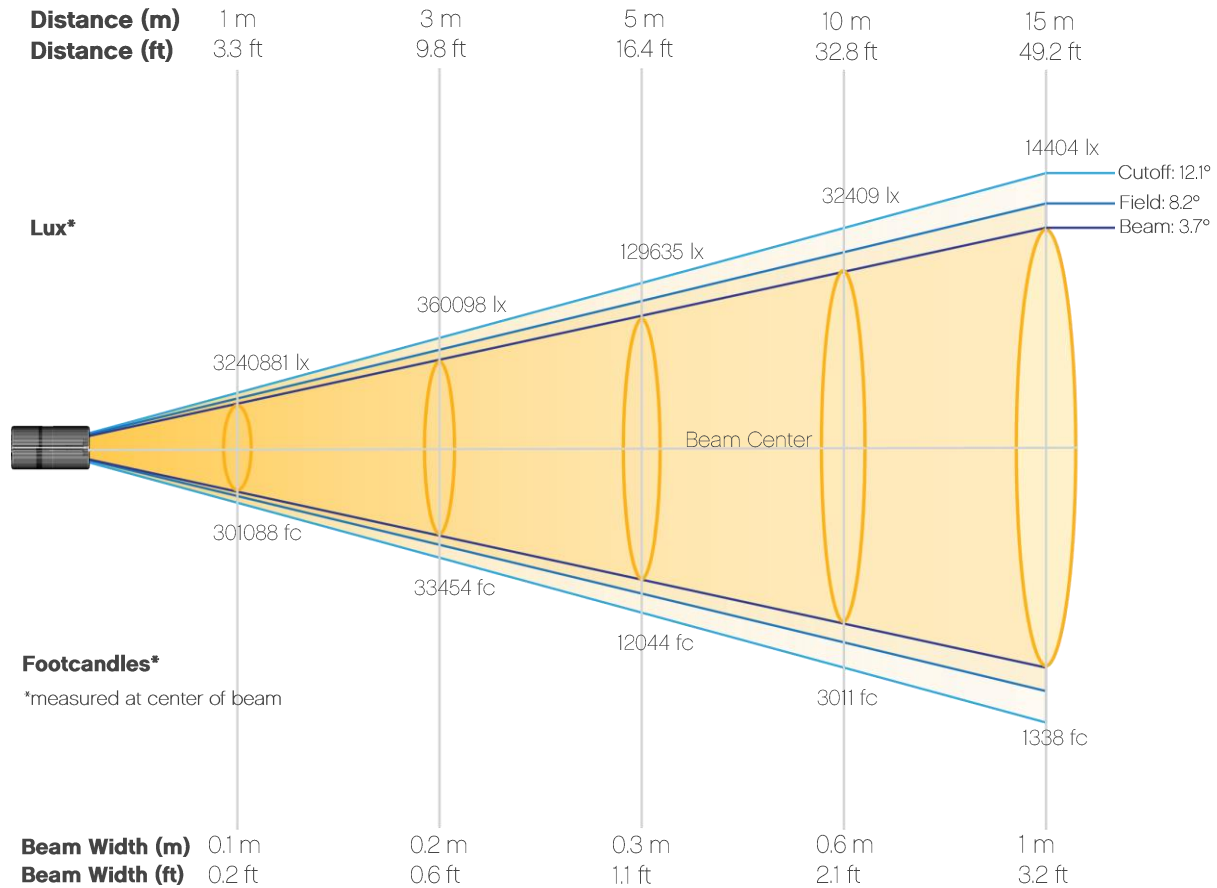
CIE 1931



# Photometric Report

Maverick MK1 Hybrid: 50% Zoom, Full Power

## Beam Details

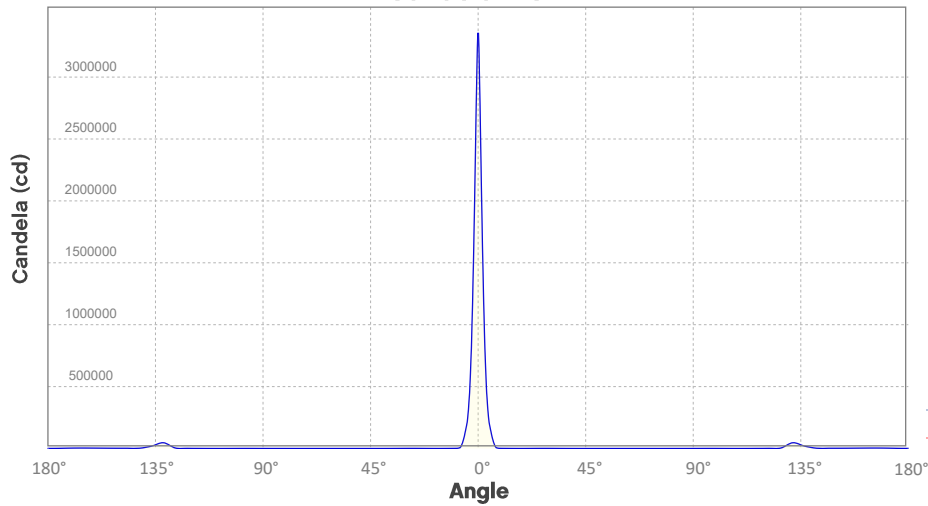


### Beam Illuminances from 1-20m (3.3-65.6ft)

<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	3240881	810220	360098	202555	129635	90024	66140	50639	40011	32409
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	26784	22506	19177	16535	14404	12660	11214	10003	8978	8102
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	301088	75272	33454	18818	12044	8364	6145	4704	3717	3011
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	2488	2091	1782	1536	1338	1176	1042	929	834	753

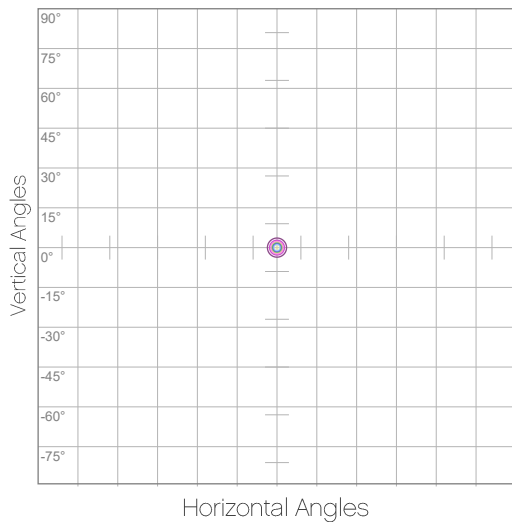
# Photometric Report

Maverick MK1 Hybrid: 50% Zoom, Full Power  
Candela Plot



Beam Angle (50%): 3.7°  
Field Angle (10%): 8.2°  
Cutoff Angle (3%): 12.1°

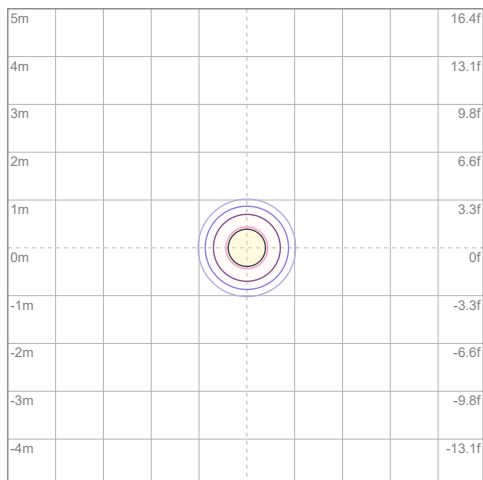
## Polar Diagrams



### iso-candela Diagram

10%	324088 cd
20%	648176 cd
30%	972264 cd
40%	1296352 cd
50%	1620440 cd
60%	1944529 cd
70%	2268617 cd
80%	2592705 cd
90%	2916793 cd

Conditions:  
Number of c-planes: 2  
Candela at center: 3240881 cd



### iso-illuminance Diagram

3%	972 lx
5%	1620 lx
10%	3241 lx
30%	9723 lx
50%	16.2K lx

Conditions:  
Number of c-planes: 2  
Lux at center: 32.4K 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 Hybrid: Full Flood, Full Power

## Report Summary

### Measurements

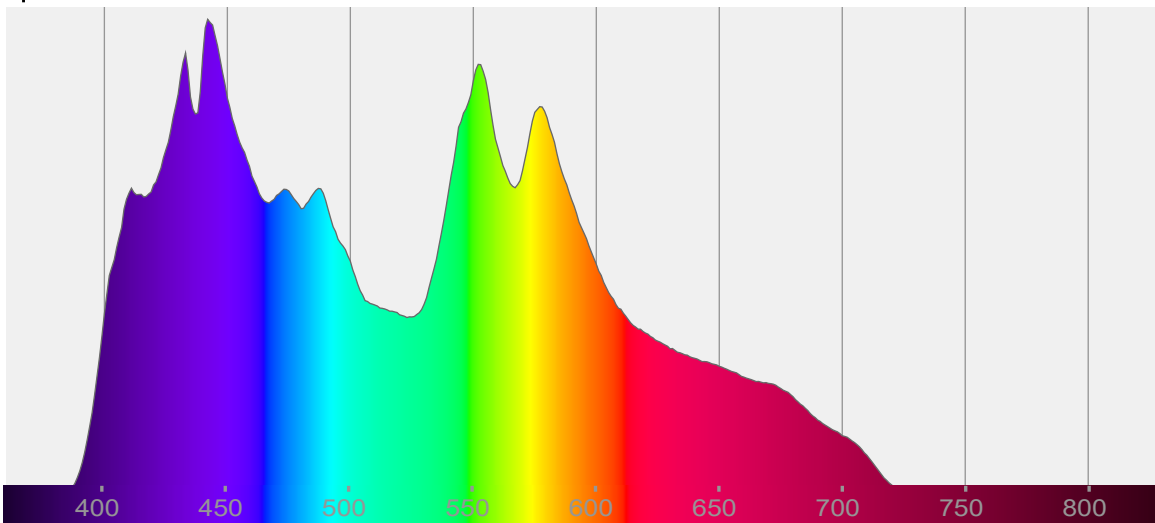
Total Lumens: 41876 lm  
Peak Intensity: 684122 cd  
Fixture Efficacy: 67 lm/W

Correlated Color Temperature: 7479K  
 $\Delta uv$ : -0.0038

CRI: 76.5      CRI R9 Value: -13.2  
CQS: 71.9  
TLCI: 48  
TM-30-18 Rf: 76.2  
TM-30-18 Rg: 91.2  
1<sup>st</sup> Dominant Wavelength: 442 nm  
2<sup>nd</sup> Dominant Wavelength: 552 nm



### Spectral Distribution



#### Tested Color

**7479 K**  
CIE 1931 Coordinates:  
X: 0.301   Y: 0.310

#### Color Temperature

7479 K

#### Light Quality

CRI: 76.5

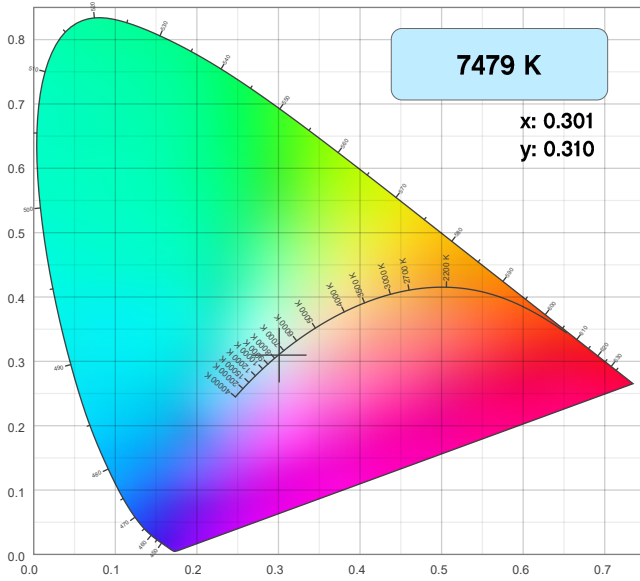
#### Notes:

# Chromaticity Report

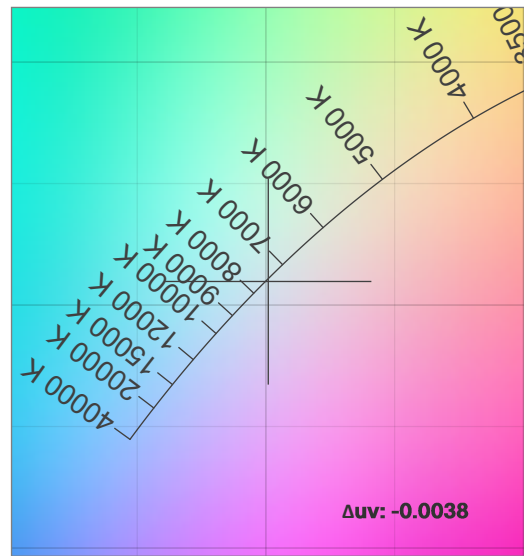
Maverick MK1 Hybrid: Full Flood, Full Power

## Chromaticity

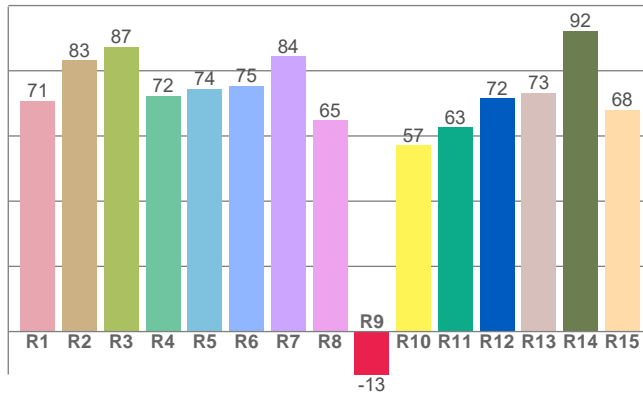
CIE 1931



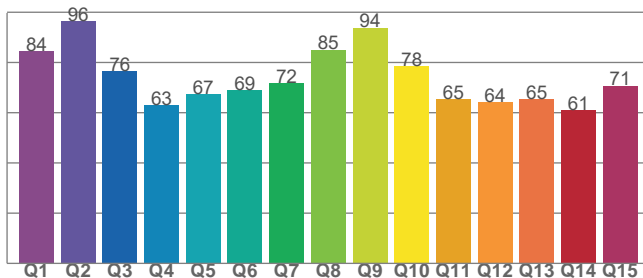
CIE 1931 - Zoom



CRI: 76.5 (R1-R8)



CQS: 71.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7479 K	0.301	0.310

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0038	0.310	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
76.5	-13.2	71.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
48	76.2	91.2



# Chromaticity Report

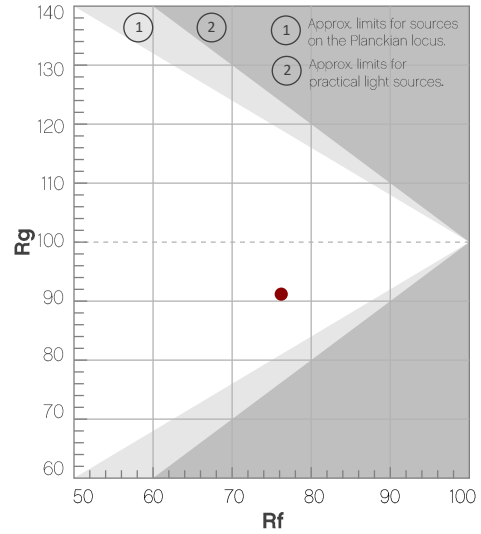
Maverick MK1 Hybrid: Full Flood, Full Power

## TM-30-18 Details

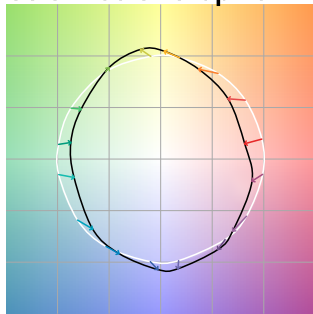
**Rf 76.2**  
Fidelity Index (R<sub>f</sub>)

**Rg 91.2**  
Gamut Index (R<sub>g</sub>)

Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	66	-17%	-1%
2	66	-13%	10%
3	67	-7%	18%
4	71	3%	16%
5	79	9%	8%
6	90	2%	-5%
7	82	-9%	-5%
8	77	-11%	-4%
9	80	-14%	6%
10	73	-7%	15%
11	66	-1%	14%
12	82	6%	9%
13	88	8%	-2%
14	78	4%	-11%
15	73	-3%	-19%
16	75	-9%	-8%



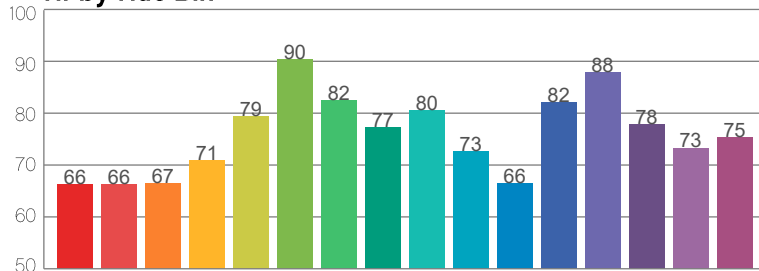
Color Vector Graphic



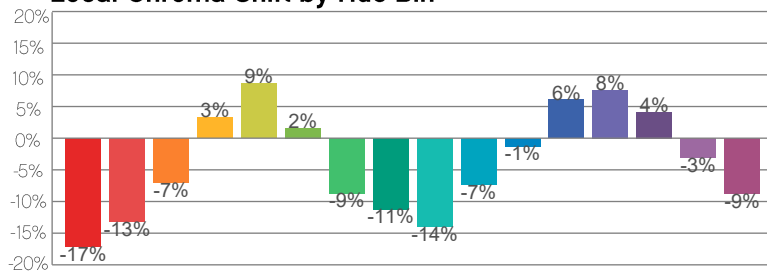
Color Distortion Graphic



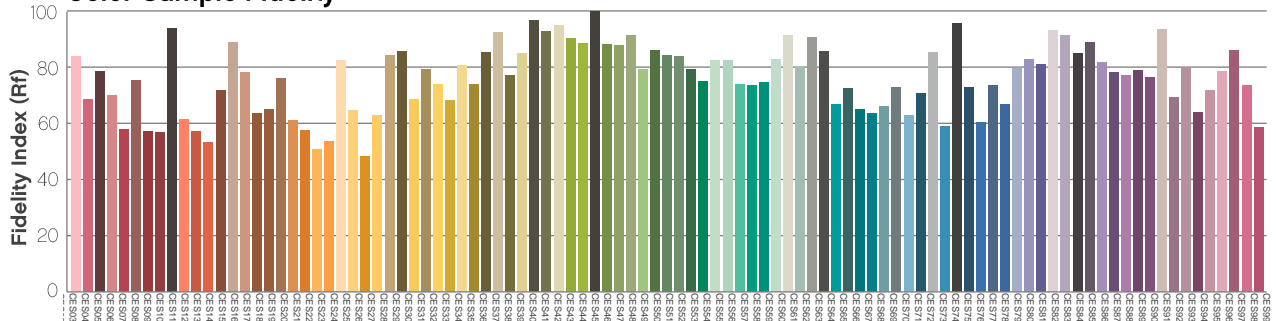
R<sub>f</sub> by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



# Chromaticity Report

Maverick MK1 Hybrid: Full Spot, Full Power

## Report Summary

### Measurements

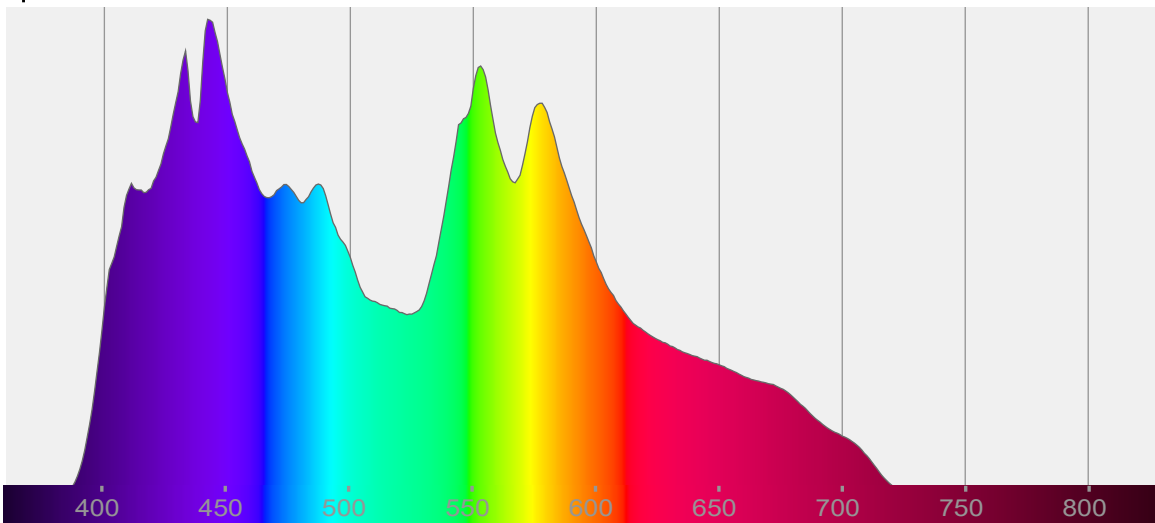
Total Lumens: 62682 lm  
Peak Intensity: 25509276 cd  
Fixture Efficacy: 96 lm/W

Correlated Color Temperature: 7452K  
 $\Delta uv$ : -0.0037

CRI: 76.7      CRI R9 Value: -13.4  
CQS: 72.1  
TLCI: 48  
TM-30-18 Rf: 76.5  
TM-30-18 Rg: 91.2  
1<sup>st</sup> Dominant Wavelength: 442 nm  
2<sup>nd</sup> Dominant Wavelength: 553 nm



### Spectral Distribution



#### Tested Color

**7452 K**  
CIE 1931 Coordinates:  
X: 0.301   Y: 0.310

#### Color Temperature

7452 K

#### Light Quality

CRI: 76.7

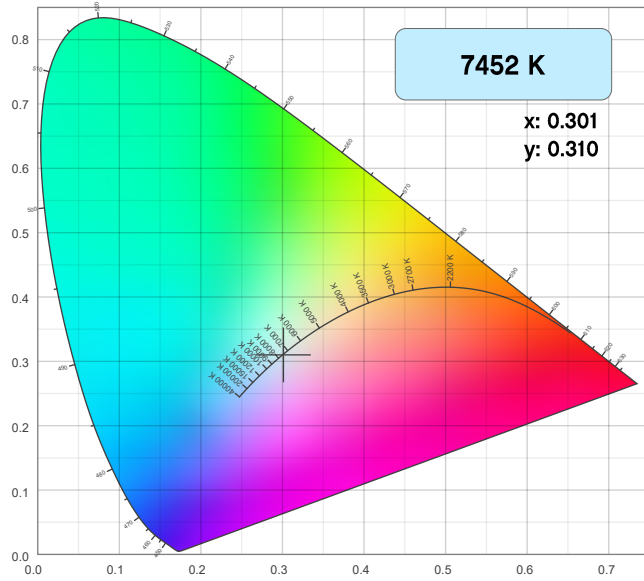
#### Notes:

# Chromaticity Report

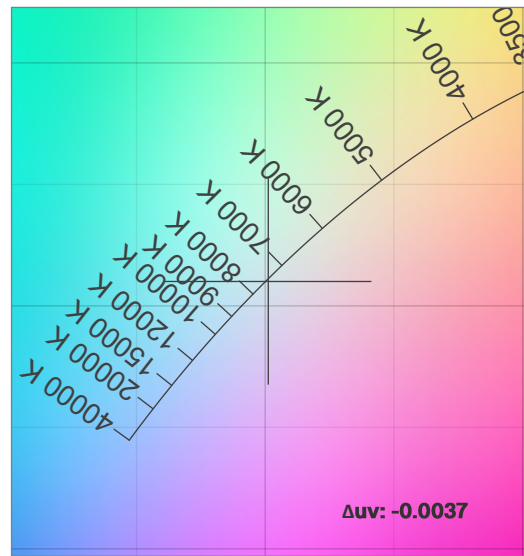
Maverick MK1 Hybrid: Full Spot, Full Power

## Chromaticity

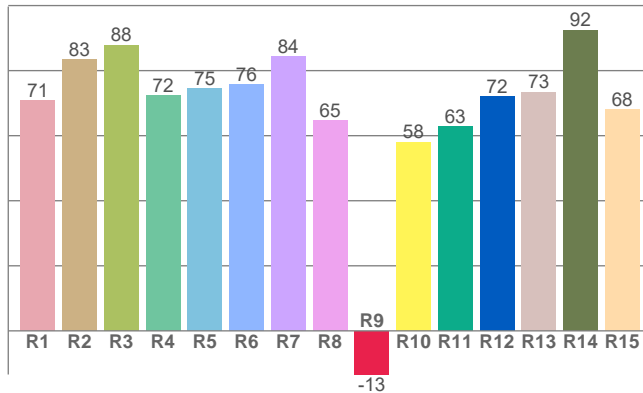
CIE 1931



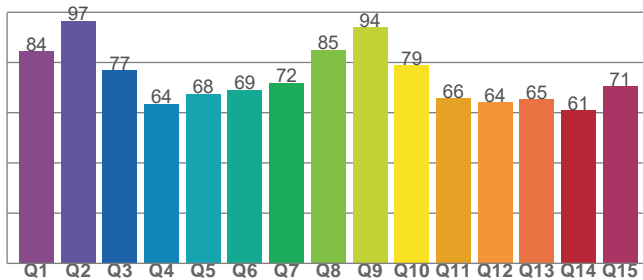
CIE 1931 - Zoom



CRI: 76.7 (R1-R8)



CQS: 72.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7452 K	0.301	0.310

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta_{uv}$	y	u
-0.0037	0.310	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
76.7	-13.4	72.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
48	76.5	91.2

# Chromaticity Report

Maverick MK1 Hybrid: Full Spot, Full Power

## TM-30-18 Details

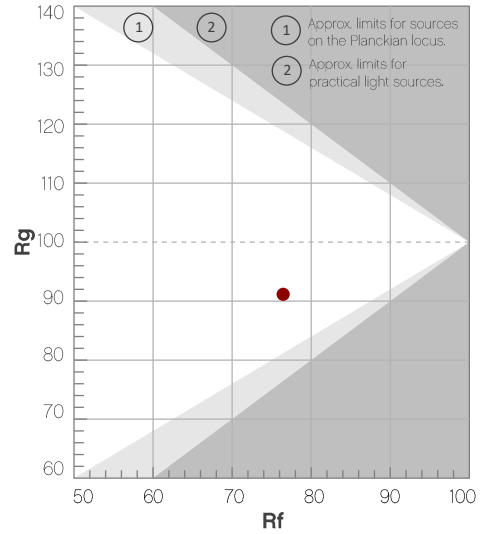
**Rf 76.5**

Fidelity Index  
(R<sub>f</sub>)

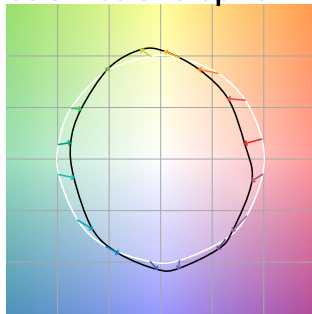
**Rg 91.2**

Gamut Index (R<sub>g</sub>)

Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	66	-17%	-1%
2	66	-13%	10%
3	67	-7%	18%
4	72	3%	15%
5	80	8%	8%
6	91	1%	-5%
7	83	-9%	-4%
8	78	-11%	-4%
9	81	-14%	6%
10	73	-7%	15%
11	67	-1%	14%
12	82	6%	8%
13	88	7%	-3%
14	78	4%	-11%
15	73	-3%	-19%
16	75	-9%	-8%



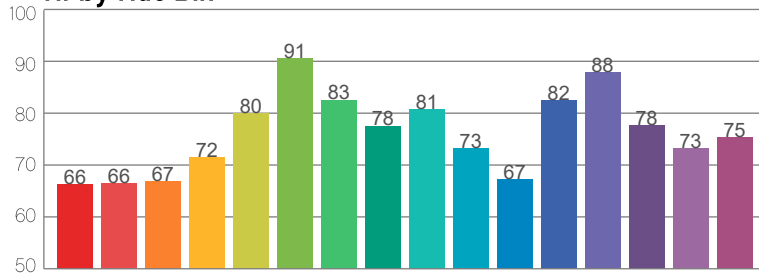
Color Vector Graphic



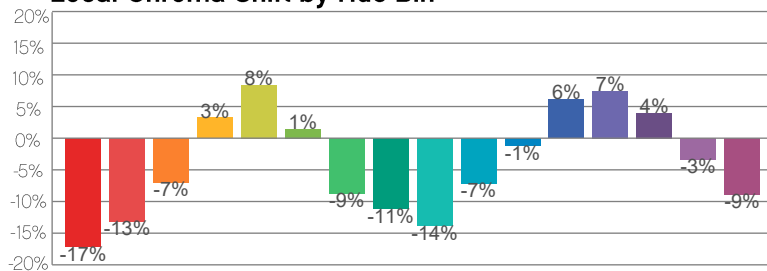
Color Distortion Graphic



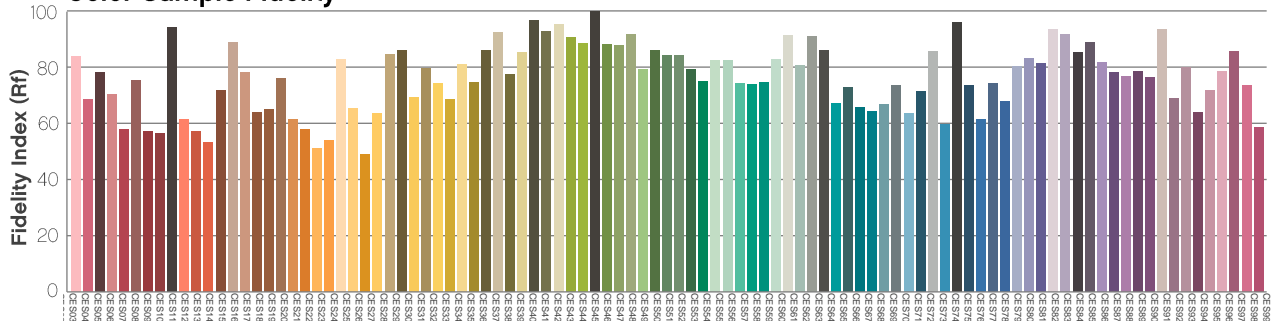
R<sub>f</sub> by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



# Chromaticity Report

Maverick MK1 Hybrid: Beam Mode, Full Power

## Report Summary

### Measurements

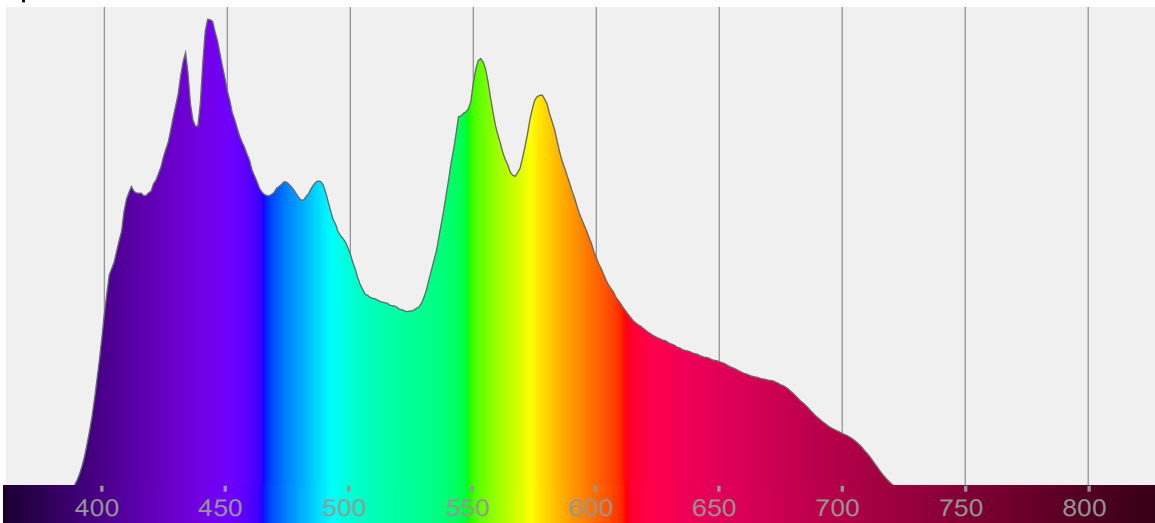
Total Lumens: 54938 lm  
Peak Intensity: 42894368 cd  
Fixture Efficacy: 85 lm/W

Correlated Color Temperature: 7329K  
 $\Delta uv$ : -0.0032

CRI: 76.3      CRI R9 Value: -15.5  
CQS: 72.0  
TLCI: 48  
TM-30-18 Rf: 76.3  
TM-30-18 Rg: 91.0  
1<sup>st</sup> Dominant Wavelength: 442 nm  
2<sup>nd</sup> Dominant Wavelength: 553 nm



### Spectral Distribution



#### Tested Color

**7329 K**

CIE 1931 Coordinates:  
X: 0.302    Y: 0.312

#### Color Temperature

7329 K

#### Light Quality

CRI: 76.3

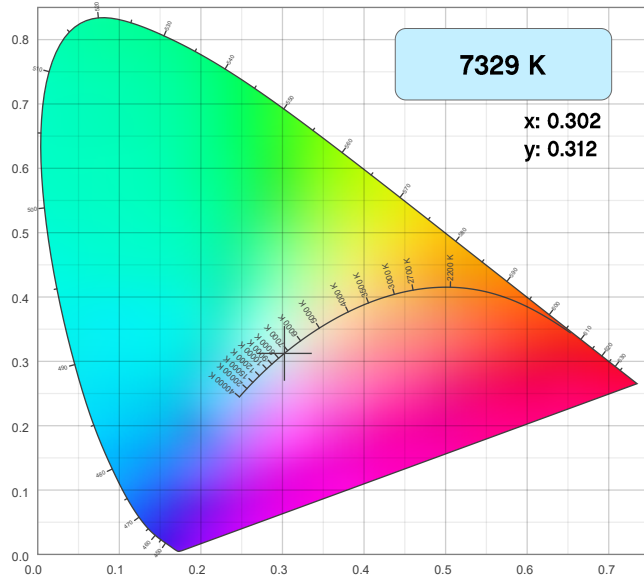
#### Notes:

# Chromaticity Report

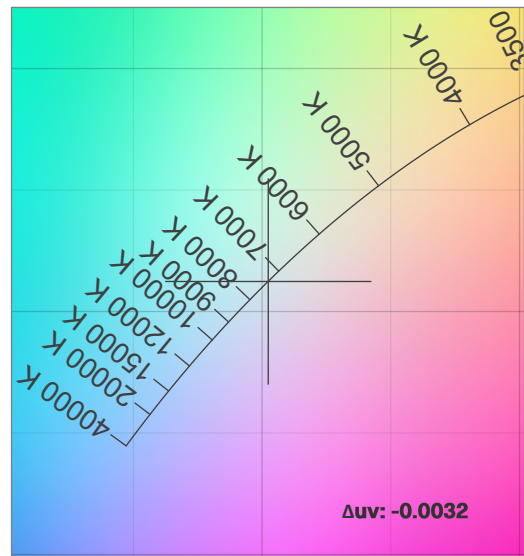
Maverick MK1 Hybrid: Beam Mode, Full Power

## Chromaticity

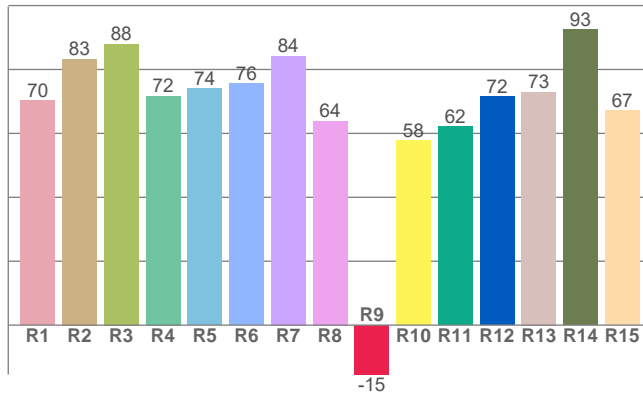
CIE 1931



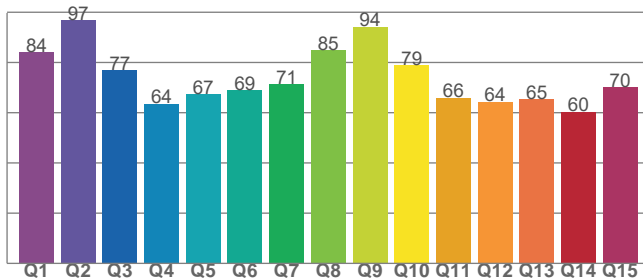
CIE 1931 - Zoom



CRI: 76.3 (R1-R8)



CQS: 72.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7329 K	0.302	0.312

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0032	0.312	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
76.3	-15.5	72.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
48	76.3	91.0

# Chromaticity Report

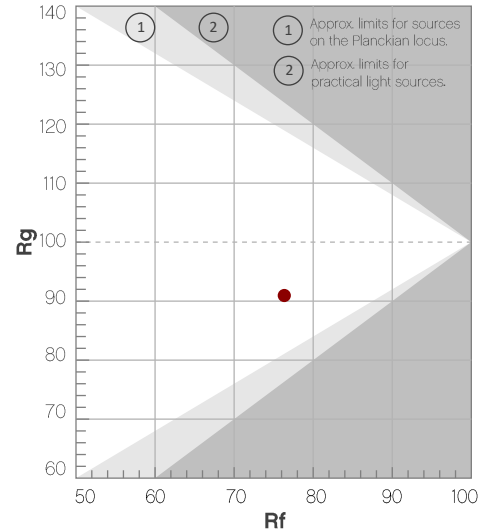
Maverick MK1 Hybrid: Beam Mode, Full Power

## TM-30-18 Details

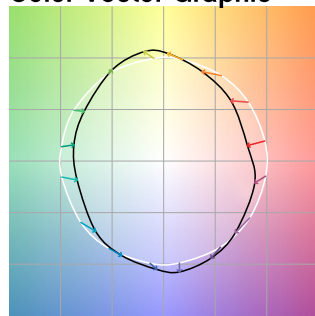
**Rf 76.3**  
Fidelity Index (R<sub>f</sub>)

**Rg 91.0**  
Gamut Index (R<sub>g</sub>)

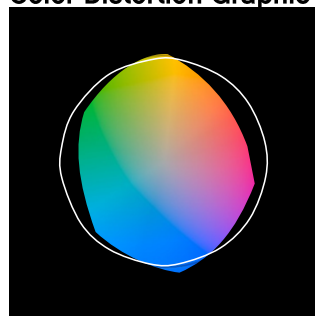
Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	66	-17%	-1%
2	66	-13%	10%
3	67	-7%	18%
4	72	3%	15%
5	80	8%	8%
6	90	1%	-5%
7	82	-9%	-5%
8	77	-11%	-4%
9	81	-14%	6%
10	73	-7%	15%
11	67	-1%	14%
12	82	5%	7%
13	86	9%	-2%
14	82	4%	-13%
15	73	-4%	-20%
16	75	-9%	-8%



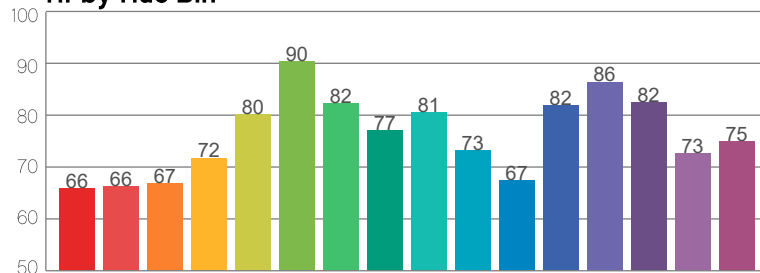
Color Vector Graphic



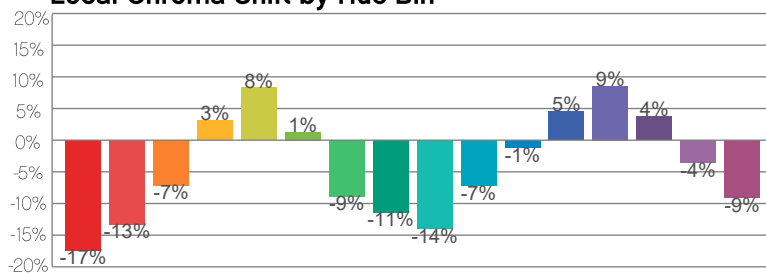
Color Distortion Graphic



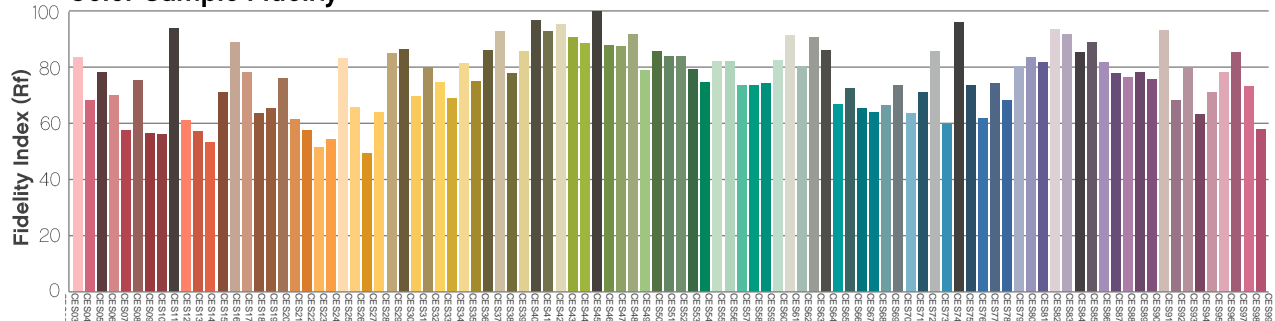
R<sub>f</sub> by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



# Chromaticity Report

Maverick MK1 Hybrid: Wash Mode - Wide, Full Power

## Report Summary

### Measurements

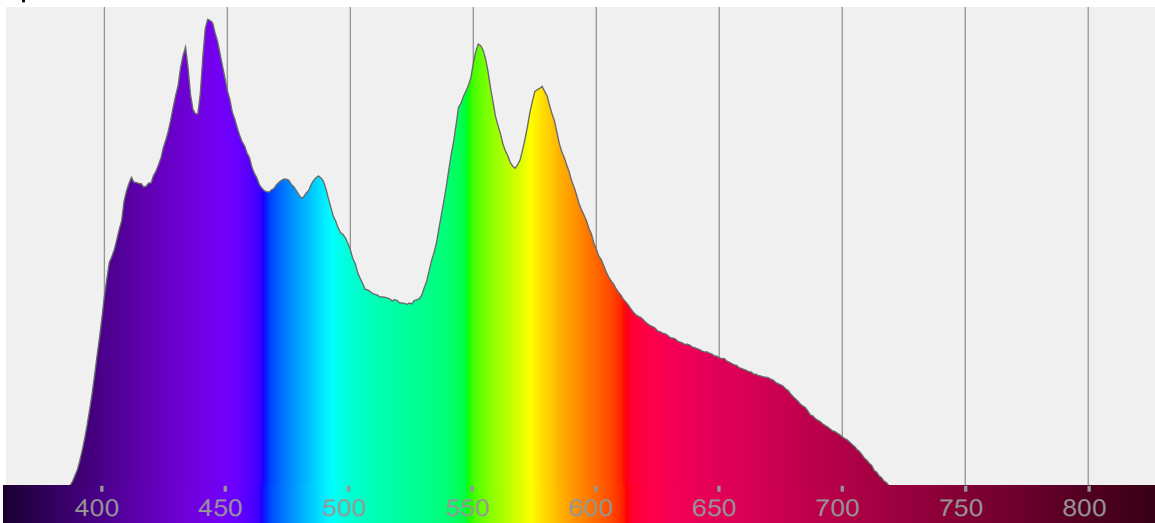
Total Lumens: 19538 lm  
Peak Intensity: 69646 cd  
Fixture Efficacy: 34 lm/W

Correlated Color Temperature: 7194K  
 $\Delta uv$ : -0.0029

CRI: 76.3      CRI R9 Value: -15.4  
CQS: 72.2  
TLCI: 48  
TM-30-18 Rf: 76.4  
TM-30-18 Rg: 91.0  
1<sup>st</sup> Dominant Wavelength: 442 nm  
2<sup>nd</sup> Dominant Wavelength: 552 nm



### Spectral Distribution



#### Tested Color

**7194 K**  
CIE 1931 Coordinates:  
X: 0.304    Y: 0.314

#### Color Temperature

7194 K

#### Light Quality

CRI: 76.3

#### Notes:

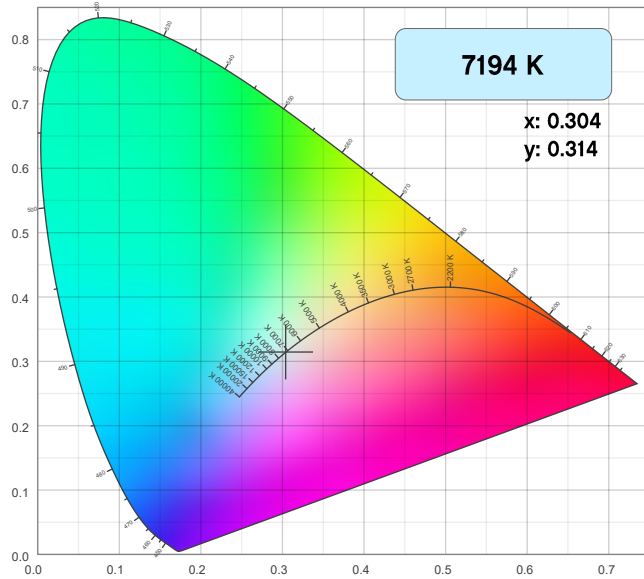


# Chromaticity Report

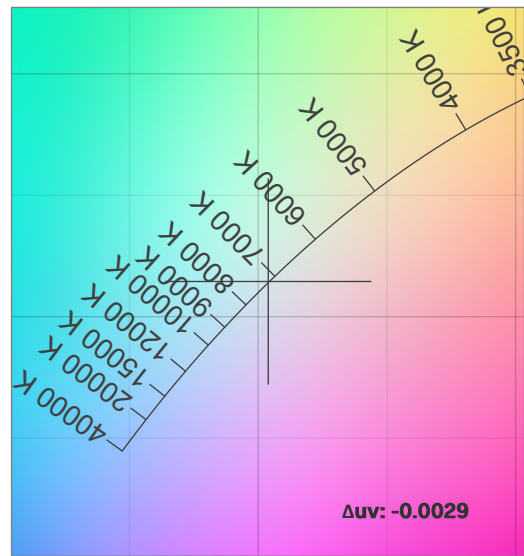
Maverick MK1 Hybrid: Wash Mode - Wide, Full Power

## Chromaticity

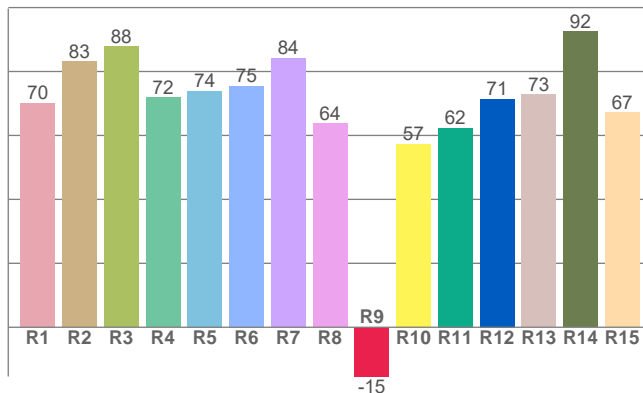
CIE 1931



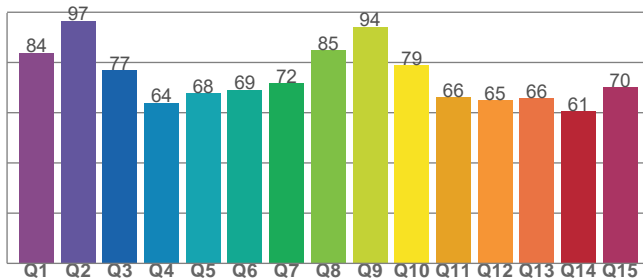
CIE 1931 - Zoom



CRI: 76.3 (R1-R8)



CQS: 72.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7194 K	0.304	0.314

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0029	0.314	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
76.3	-15.4	72.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
48	76.4	91.0

# Chromaticity Report

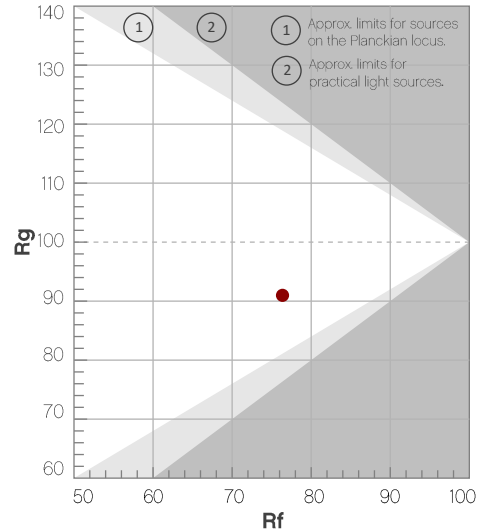
Maverick MK1 Hybrid: Wash Mode - Wide, Full Power

## TM-30-18 Details

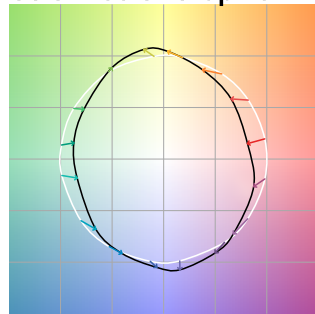
**Rf 76.4**  
Fidelity Index (R<sub>f</sub>)

**Rg 91.0**  
Gamut Index (R<sub>g</sub>)

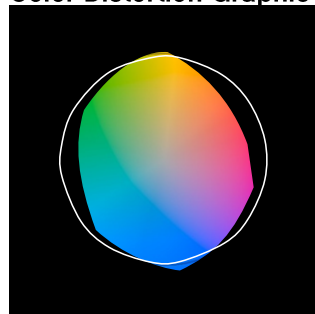
Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	66	-17%	-1%
2	67	-13%	10%
3	67	-7%	18%
4	72	3%	15%
5	80	9%	8%
6	90	2%	-5%
7	83	-9%	-5%
8	77	-11%	-4%
9	81	-14%	5%
10	73	-7%	15%
11	68	-1%	14%
12	82	5%	7%
13	87	8%	-2%
14	83	4%	-13%
15	72	-3%	-20%
16	76	-9%	-9%



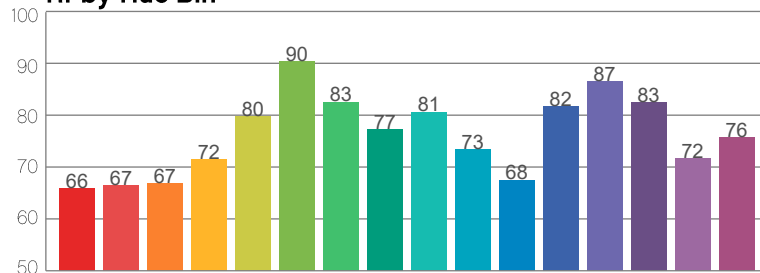
Color Vector Graphic



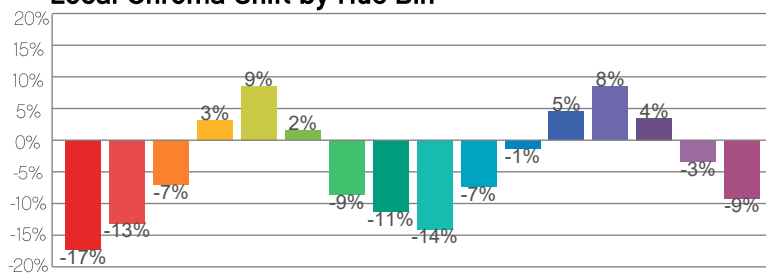
Color Distortion Graphic



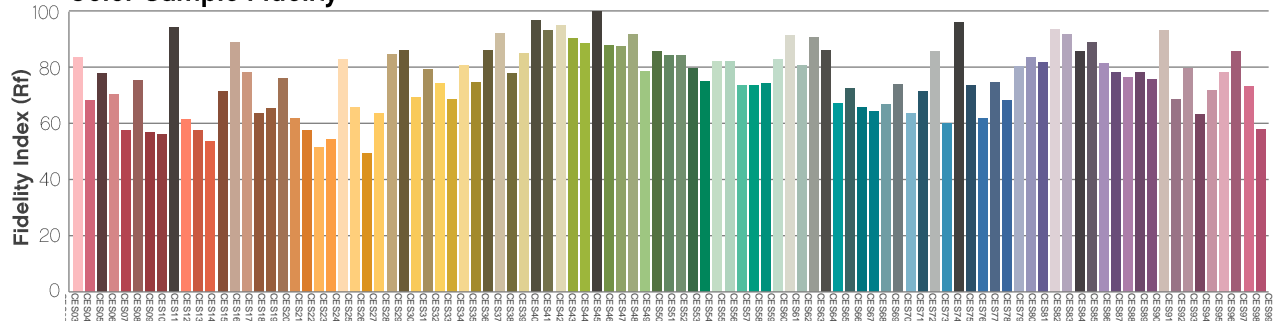
R<sub>f</sub> by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



# Chromaticity Report

Maverick MK1 Hybrid: Wash Mode - Medium, Full Power

## Report Summary

### Measurements

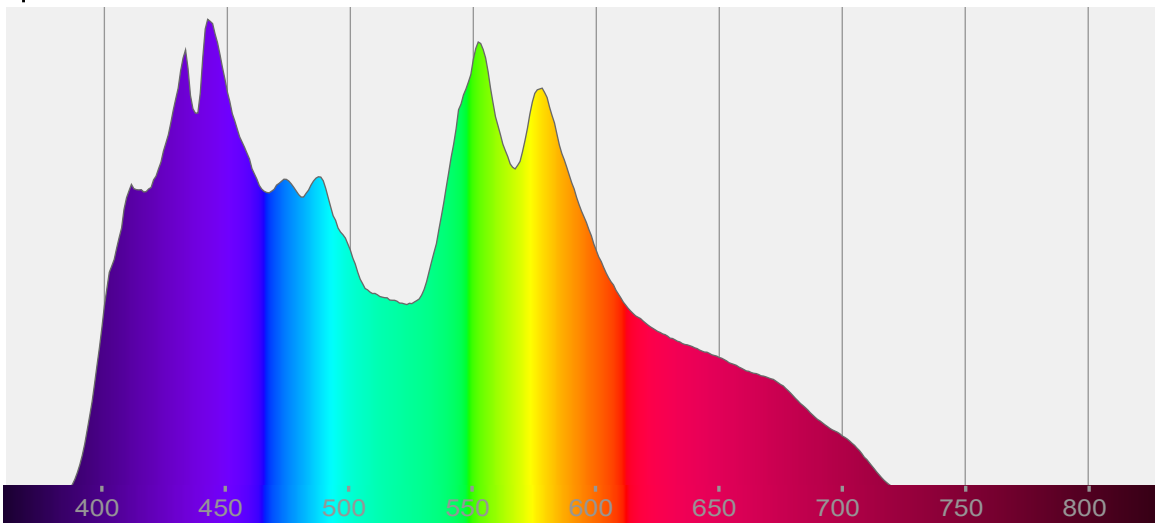
Total Lumens: 25145 lm  
Peak Intensity: 333467 cd  
Fixture Efficacy: 39 lm/W

Correlated Color Temperature: 7200K  
 $\Delta uv$ : -0.0026

CRI: 76.2      CRI R9 Value: -15.7  
CQS: 72.2  
TLCI: 48  
TM-30-18 Rf: 76.4  
TM-30-18 Rg: 90.9  
1<sup>st</sup> Dominant Wavelength: 442 nm  
2<sup>nd</sup> Dominant Wavelength: 552 nm



### Spectral Distribution



#### Tested Color

**7200 K**

CIE 1931 Coordinates:  
X: 0.304    Y: 0.315

#### Color Temperature

7200 K

#### Light Quality

CRI: 76.2

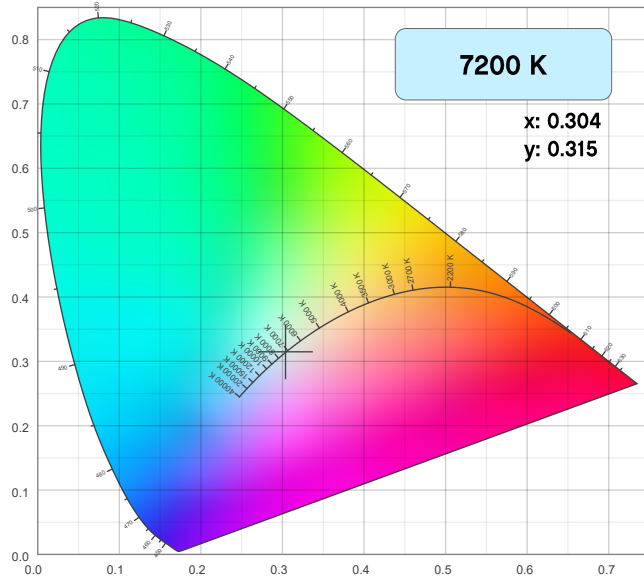
#### Notes:

# Chromaticity Report

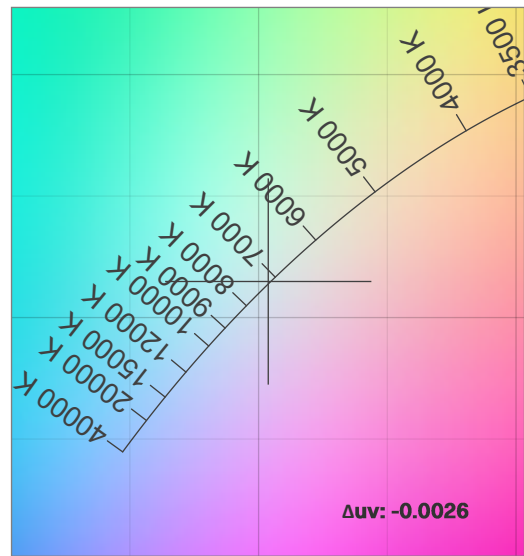
Maverick MK1 Hybrid: Wash Mode - Medium, Full Power

## Chromaticity

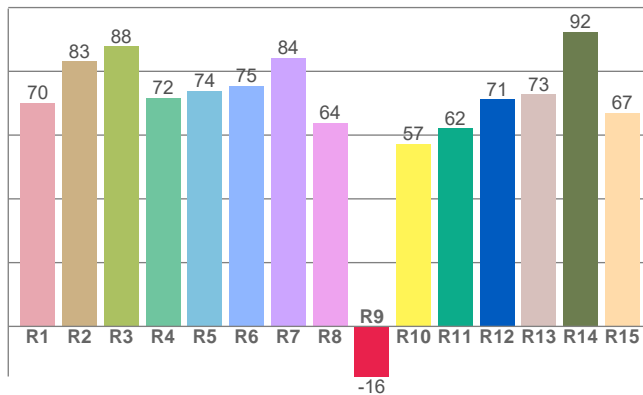
CIE 1931



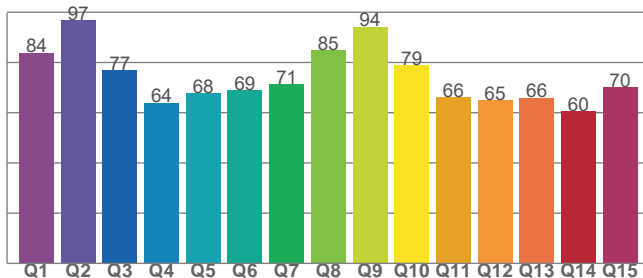
CIE 1931 - Zoom



CRI: 76.2 (R1-R8)



CQS: 72.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7200 K	0.304	0.315

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0026	0.315	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
76.2	-15.7	72.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
48	76.4	90.9

# Chromaticity Report

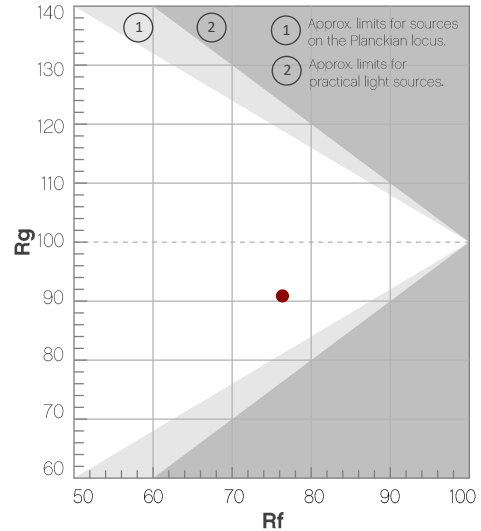
Maverick MK1 Hybrid: Wash Mode - Medium, Full Power

## TM-30-18 Details

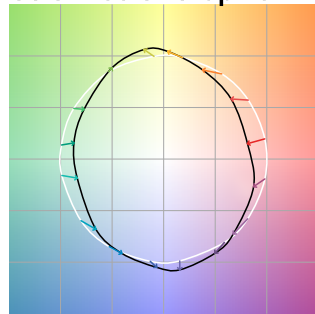
**Rf 76.4**  
Fidelity Index (R<sub>f</sub>)

**Rg 90.9**  
Gamut Index (R<sub>g</sub>)

Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	66	-17%	-1%
2	67	-13%	10%
3	67	-7%	18%
4	72	3%	15%
5	80	8%	8%
6	90	1%	-5%
7	82	-9%	-5%
8	77	-11%	-4%
9	81	-14%	5%
10	73	-7%	15%
11	68	-1%	14%
12	82	5%	7%
13	87	8%	-2%
14	82	4%	-13%
15	72	-3%	-20%
16	76	-9%	-9%



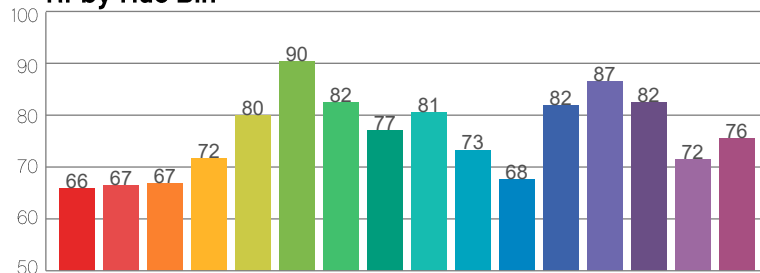
Color Vector Graphic



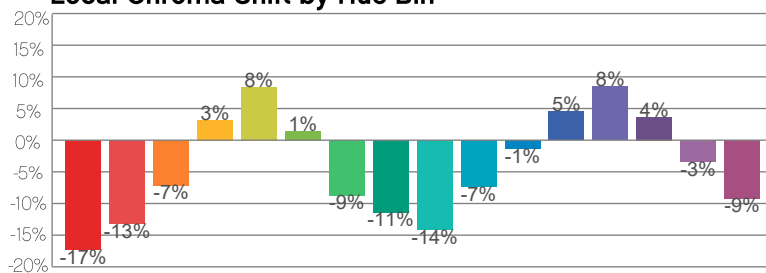
Color Distortion Graphic



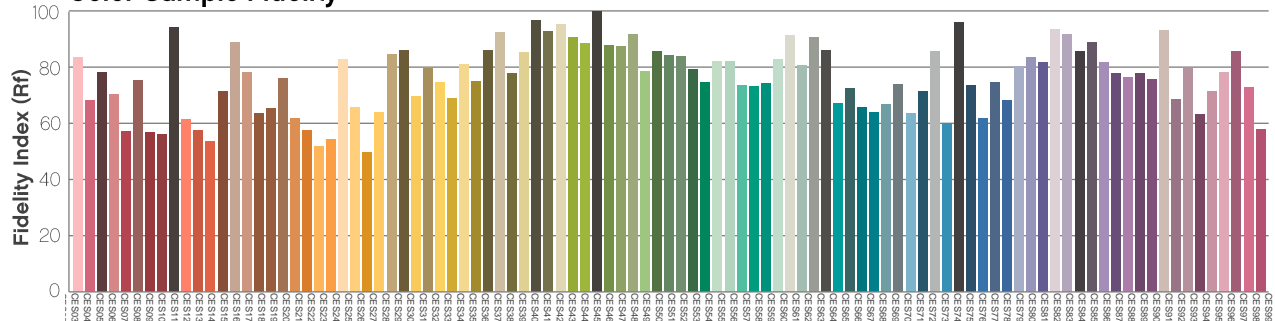
R<sub>f</sub> by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



# Chromaticity Report

Maverick MK1 Hybrid: Wash Mode - Narrow, Full Power

## Report Summary

### Measurements

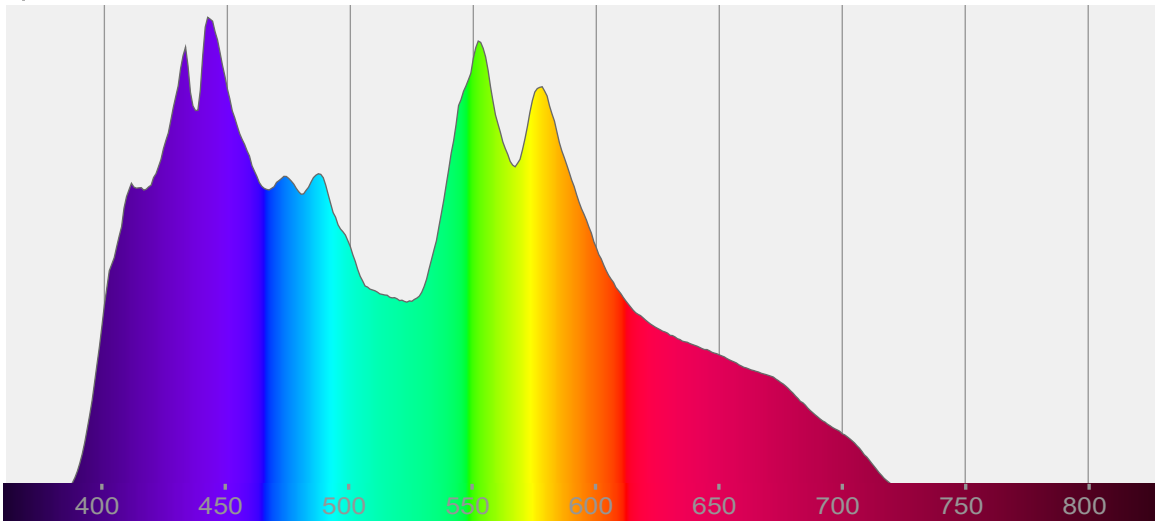
Total Lumens: 27147 lm  
Peak Intensity: 431019 cd  
Fixture Efficacy: 48 lm/W

Correlated Color Temperature: 7199K  
 $\Delta uv$ : -0.0027

CRI: 76.4      CRI R9 Value: -14.9  
CQS: 72.3  
TLCI: 49  
TM-30-18 Rf: 76.5  
TM-30-18 Rg: 91.0  
1<sup>st</sup> Dominant Wavelength: 442 nm  
2<sup>nd</sup> Dominant Wavelength: 552 nm



### Spectral Distribution



#### Tested Color

**7199 K**

CIE 1931 Coordinates:  
X: 0.304    Y: 0.315

#### Color Temperature

7199 K

#### Light Quality

CRI: 76.4

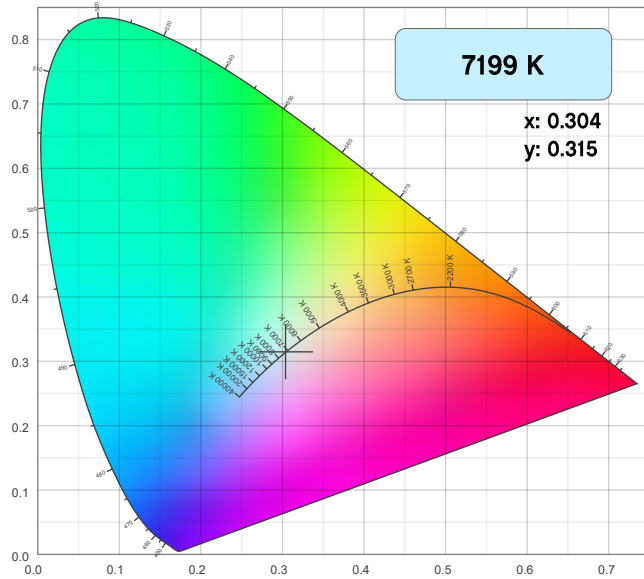
#### Notes:

# Chromaticity Report

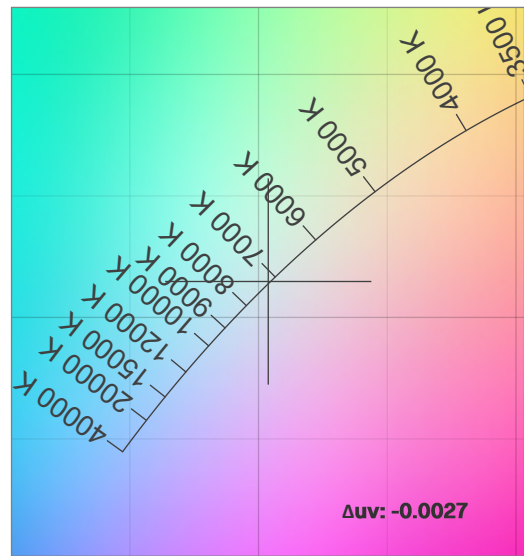
Maverick MK1 Hybrid: Wash Mode - Narrow, Full Power

## Chromaticity

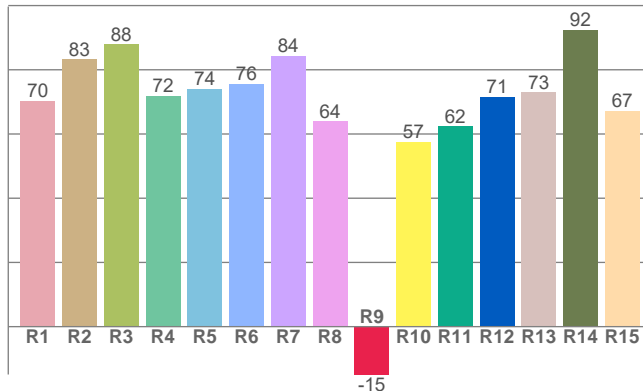
CIE 1931



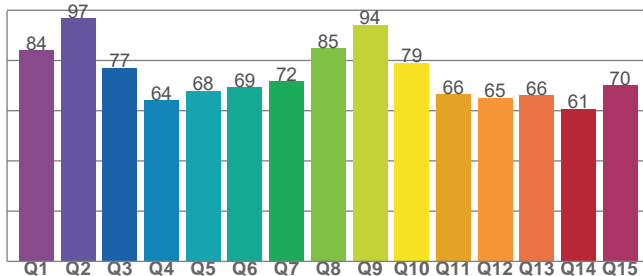
CIE 1931 - Zoom



CRI: 76.4 (R1-R8)



CQS: 72.3



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7199 K	0.304	0.315

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta_{uv}$	y	u
-0.0027	0.315	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
76.4	-14.9	72.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
49	76.5	91.0

# Chromaticity Report

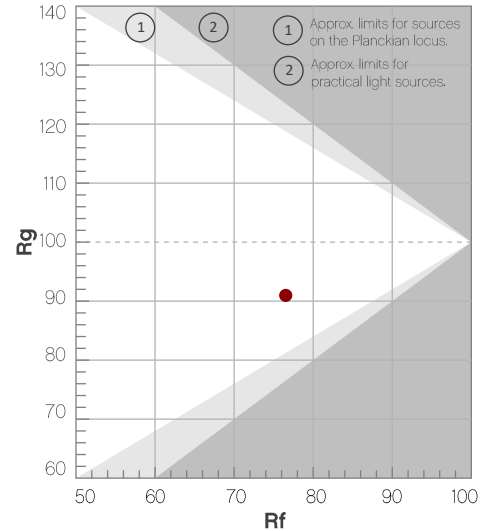
Maverick MK1 Hybrid: Wash Mode - Narrow, Full Power

## TM-30-18 Details

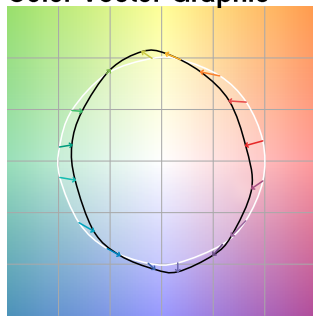
**Rf 76.5**  
Fidelity Index (R<sub>f</sub>)

**Rg 91.0**  
Gamut Index (R<sub>g</sub>)

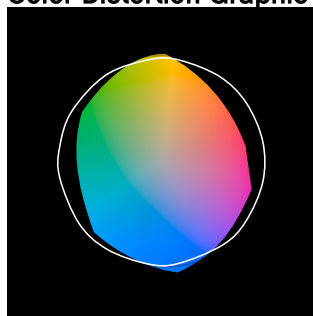
Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	66	-17%	-1%
2	67	-13%	10%
3	67	-7%	17%
4	72	3%	15%
5	80	8%	8%
6	90	1%	-5%
7	83	-9%	-5%
8	77	-11%	-4%
9	81	-14%	5%
10	73	-7%	15%
11	68	-1%	14%
12	82	5%	7%
13	87	8%	-2%
14	83	4%	-13%
15	72	-3%	-20%
16	76	-9%	-9%



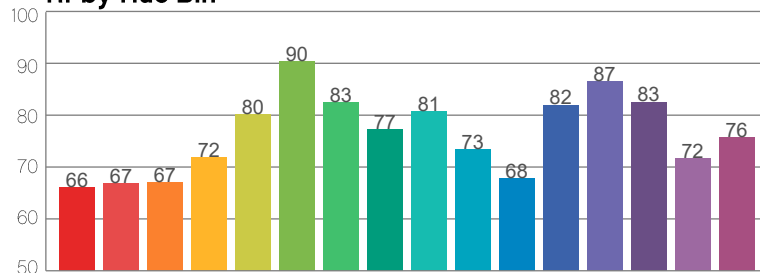
Color Vector Graphic



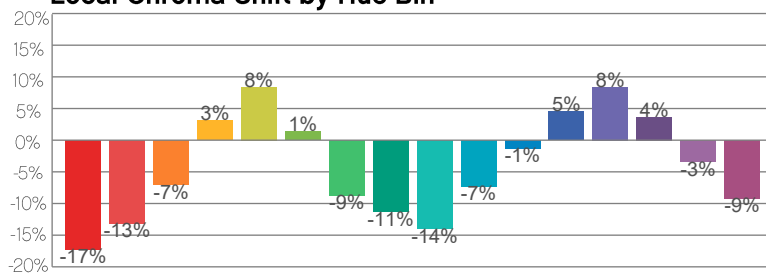
Color Distortion Graphic



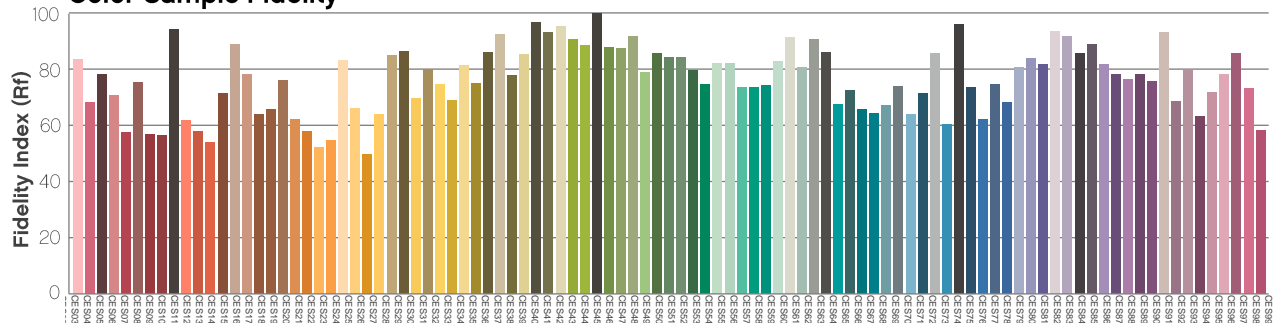
R<sub>f</sub> by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity





# Chromaticity Report

Maverick MK1 Hybrid: 50% Zoom, Full Power

## Report Summary

### Measurements

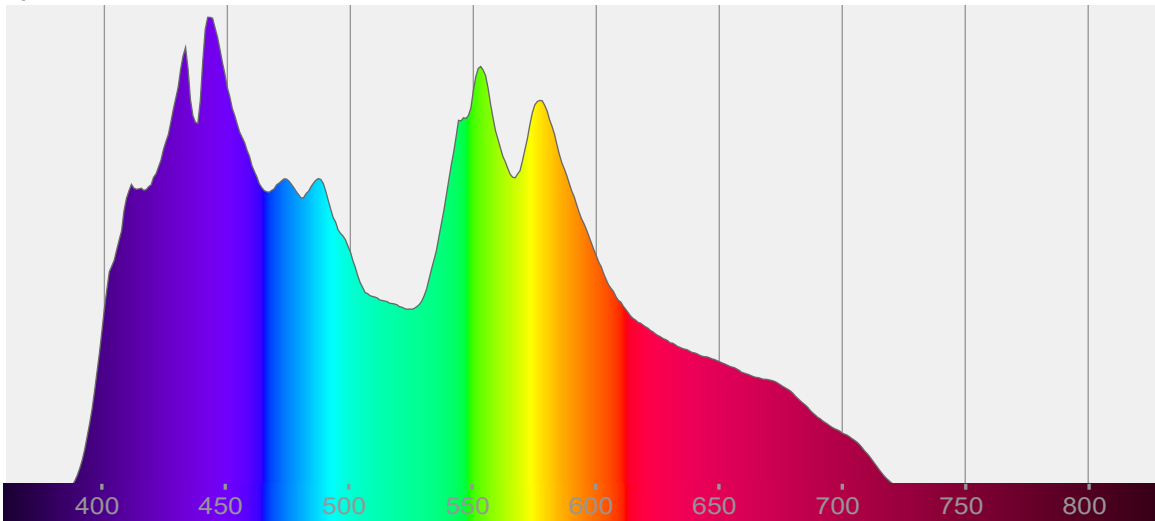
Total Lumens: 55093 lm  
Peak Intensity: 3240881 cd  
Fixture Efficacy: 194 lm/W

Correlated Color Temperature: 7445K  
 $\Delta uv$ : -0.0038

CRI: 77.1      CRI R9 Value: -12.0  
CQS: 72.5  
TLCI: 49  
TM-30-18 Rf: 76.9  
TM-30-18 Rg: 91.3  
1<sup>st</sup> Dominant Wavelength: 443 nm  
2<sup>nd</sup> Dominant Wavelength: 553 nm



### Spectral Distribution



#### Tested Color

**7445 K**  
CIE 1931 Coordinates:  
X: 0.301    Y: 0.310

#### Color Temperature

7445 K

#### Light Quality

CRI: 77.1

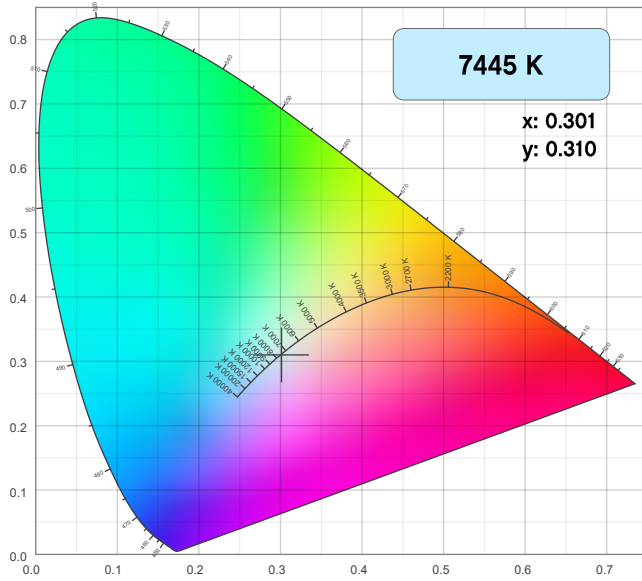
#### Notes:

# Chromaticity Report

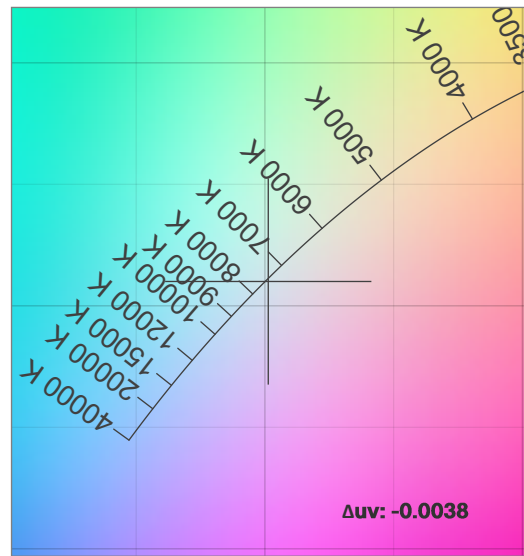
Maverick MK1 Hybrid: 50% Zoom, Full Power

## Chromaticity

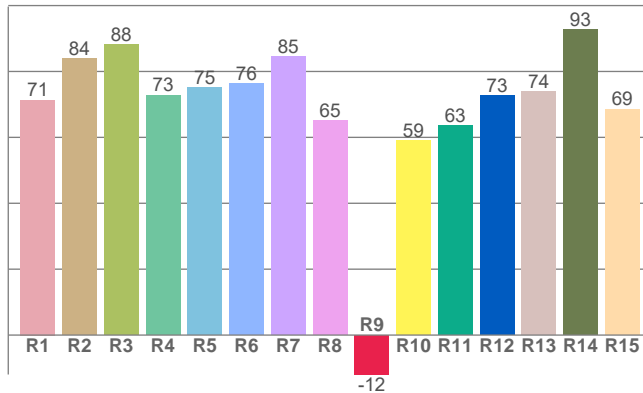
CIE 1931



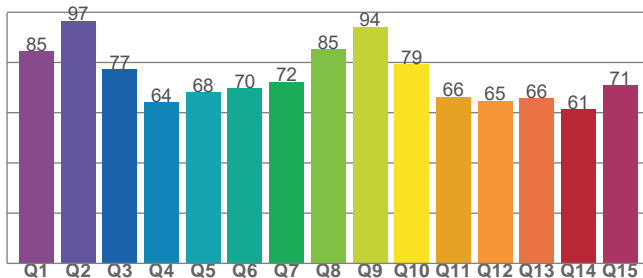
CIE 1931 - Zoom



CRI: 77.1 (R1-R8)



CQS: 72.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7445 K	0.301	0.310

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta_{uv}$	y	u
-0.0038	0.310	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
77.1	-12.0	72.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
49	76.9	91.3

# Chromaticity Report

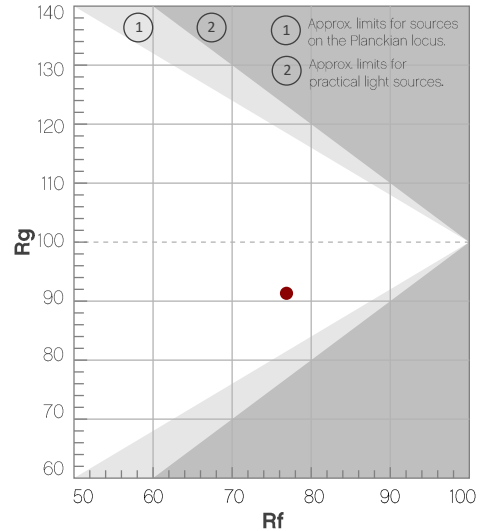
Maverick MK1 Hybrid: 50% Zoom, Full Power

## TM-30-18 Details

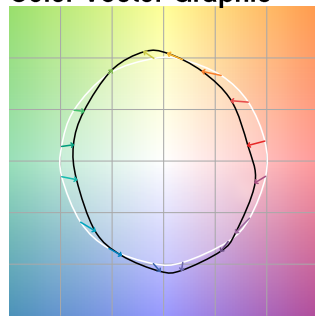
**Rf 76.9**  
Fidelity Index (R<sub>f</sub>)

**Rg 91.3**  
Gamut Index (R<sub>g</sub>)

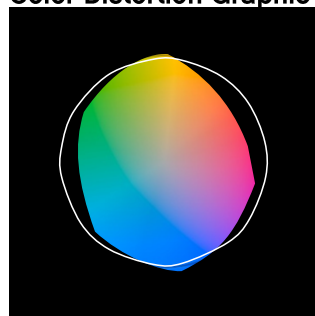
Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	67	-17%	-1%
2	67	-13%	10%
3	67	-7%	17%
4	72	3%	15%
5	80	8%	8%
6	91	1%	-5%
7	83	-9%	-4%
8	78	-11%	-4%
9	81	-14%	6%
10	74	-7%	15%
11	68	-1%	14%
12	83	6%	8%
13	88	7%	-3%
14	78	4%	-11%
15	73	-3%	-19%
16	76	-9%	-8%



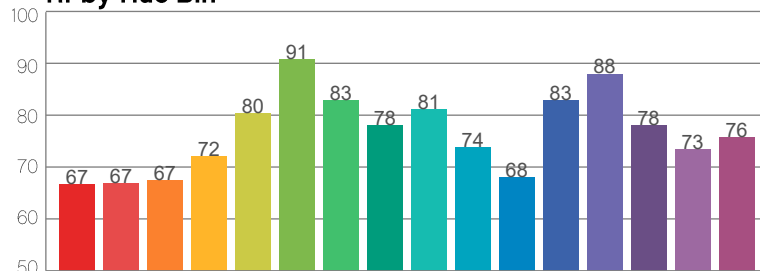
Color Vector Graphic



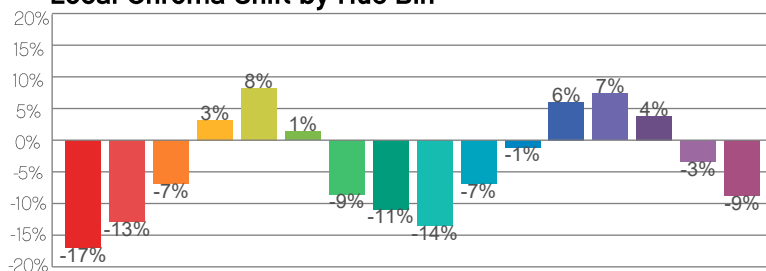
Color Distortion Graphic



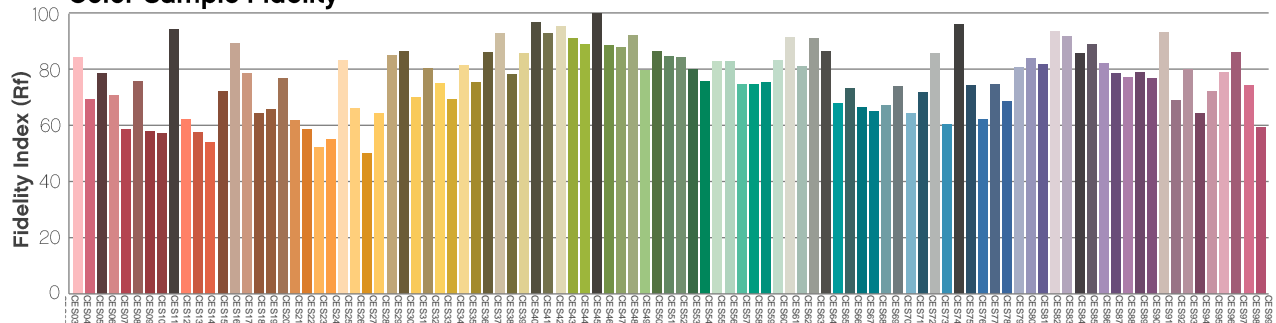
R<sub>f</sub> by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



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