

PHOTOMETRICS REPORT  
**OVATION**  
F-915FC



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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

Ovation F-915FC: Full Flood, Full Power

## Report Summary

### Output

Total Lumens: 7950 lm  
Peak Intensity: 9812 cd  
Illuminance @ 5m: 392 lux  
Fixture Efficacy: 26 lm/W

### Optical

Horizontal Beam Angle (50%): 52.3°  
Vertical Beam Angle (50%): 52.4°  
Horizontal Field Angle (10%): 84.3°  
Vertical Field Angle (10%): 84.3°  
Horizontal Cutoff Angle (3%): 99.4°  
Vertical Cutoff Angle (3%): 99.3°

### Conditions

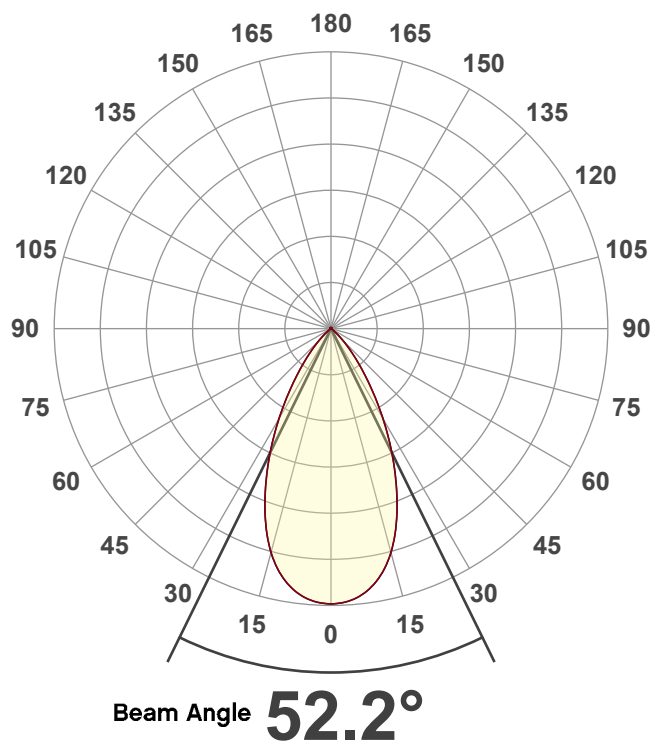
AC Supply: 120 V, 60 Hz  
Power: 308.15 W  
Current: 2.57 A  
Power Factor: 0.99



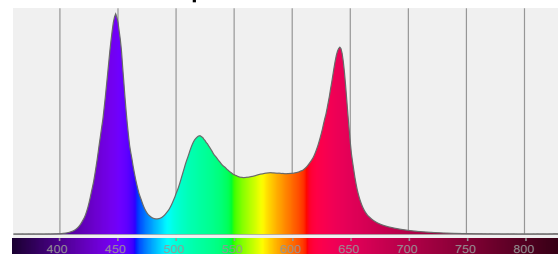
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/11/2019 to LM-63-2002 Standards.

## Overall Measurement

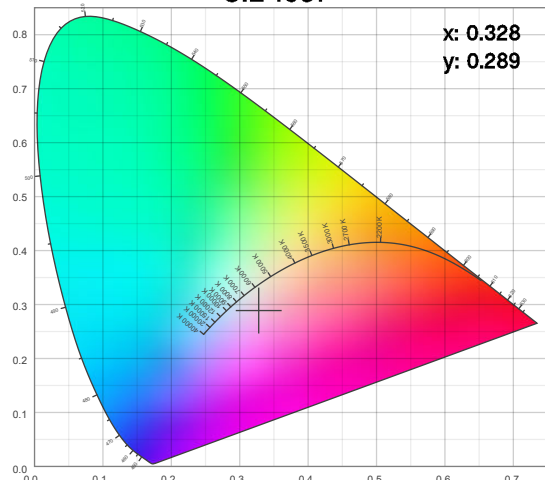
Angular Beam Distribution



Spectral Distribution



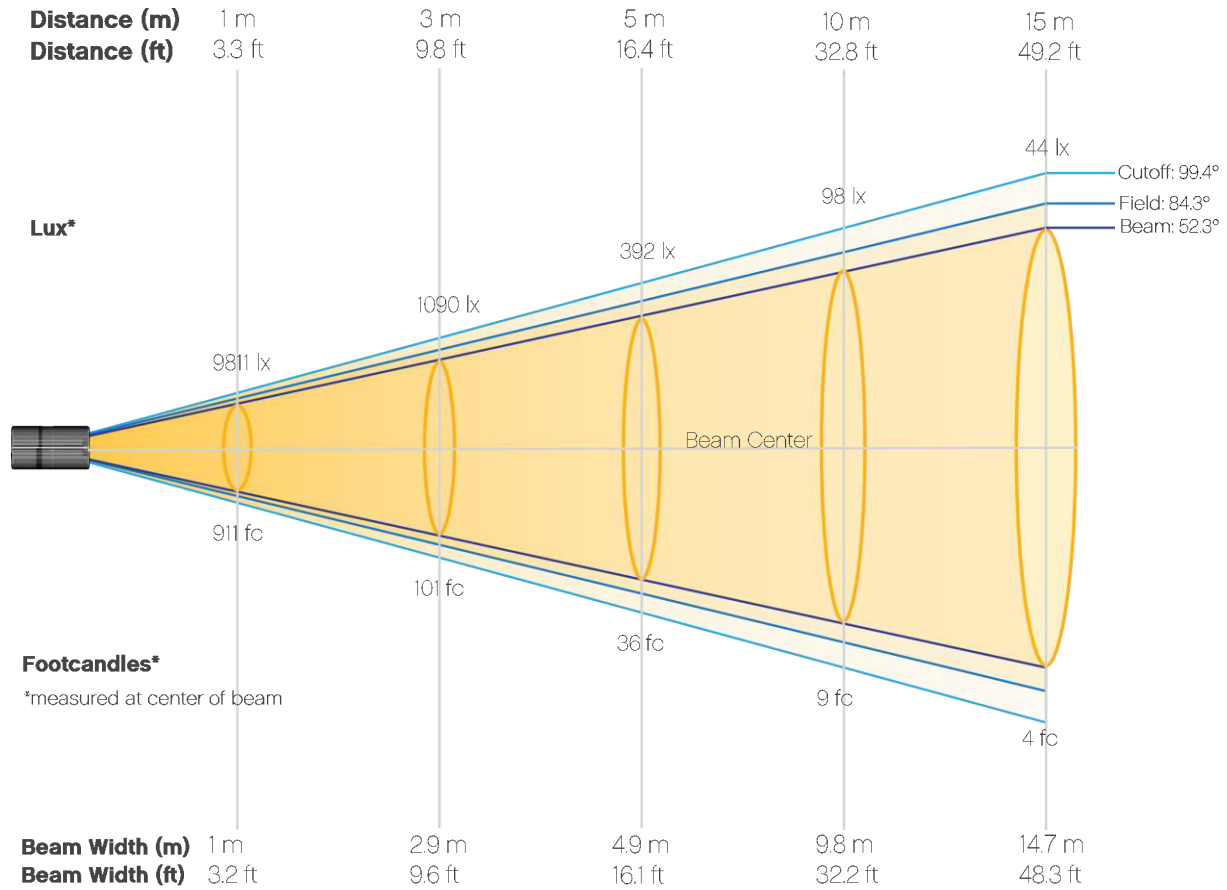
CIE 1931



# Photometric Report

Ovation F-915FC: 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	9811	2453	1090	613	392	273	200	153	121	98
<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	81	68	58	50	44	38	34	30	27	25
<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	911	228	101	57	36	25	19	14	11	9
<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	8	6	5	5	4	4	3	3	3	2

# Photometric Report

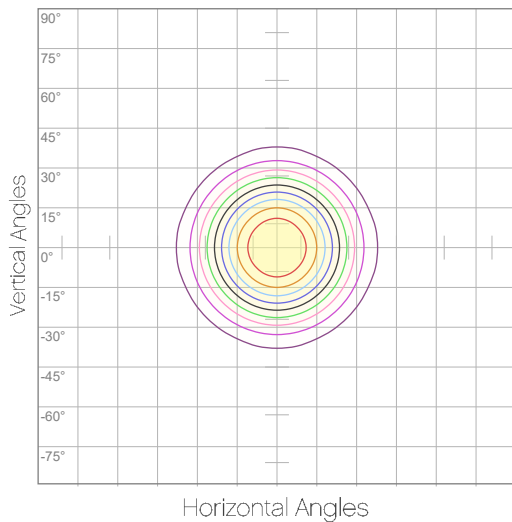
Ovation F-915FC: Full Flood, Full Power  
Candela Plot



Beam Angle (50%): 52.2°  
Field Angle (10%): 84.1°  
Cutoff Angle (3%): 99.2°

— Horizontal Distribution  
— Vertical Distribution

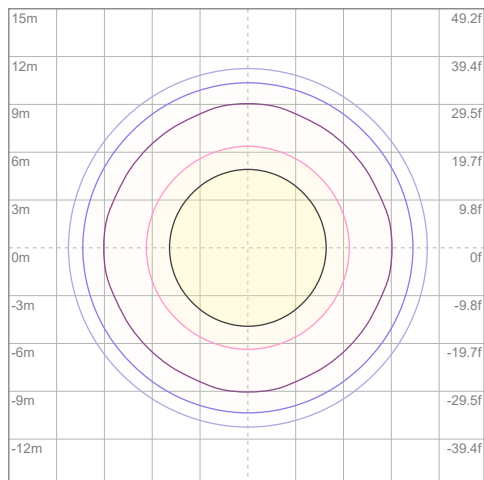
## Polar Diagrams



### iso-candela Diagram

10%	981 cd
20%	1962 cd
30%	2943 cd
40%	3924 cd
50%	4905 cd
60%	5887 cd
70%	6868 cd
80%	7849 cd
90%	8830 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 9811 cd



### iso-illuminance Diagram

3%	2.94 lx
5%	4.91 lx
10%	9.81 lx
30%	29.4 lx
50%	49.1 lx

Conditions:  
Number of c-planes: 8  
Lux at center: 98.1 lx

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

Mounting height: 10 meters / 33 feet

# Photometric Report

Ovation F-915FC: 50% Zoom, Full Power

## Report Summary

### Output

Total Lumens: 8175 lm  
Peak Intensity: 26375 cd  
Illuminance @ 5m: 1053 lux  
Fixture Efficacy: 26 lm/W

### Optical

Horizontal Beam Angle (50%): 30.9°  
Vertical Beam Angle (50%): 31°  
Horizontal Field Angle (10%): 51.6°  
Vertical Field Angle (10%): 51.7°  
Horizontal Cutoff Angle (3%): 60.1°  
Vertical Cutoff Angle (3%): 60.1°

### Conditions

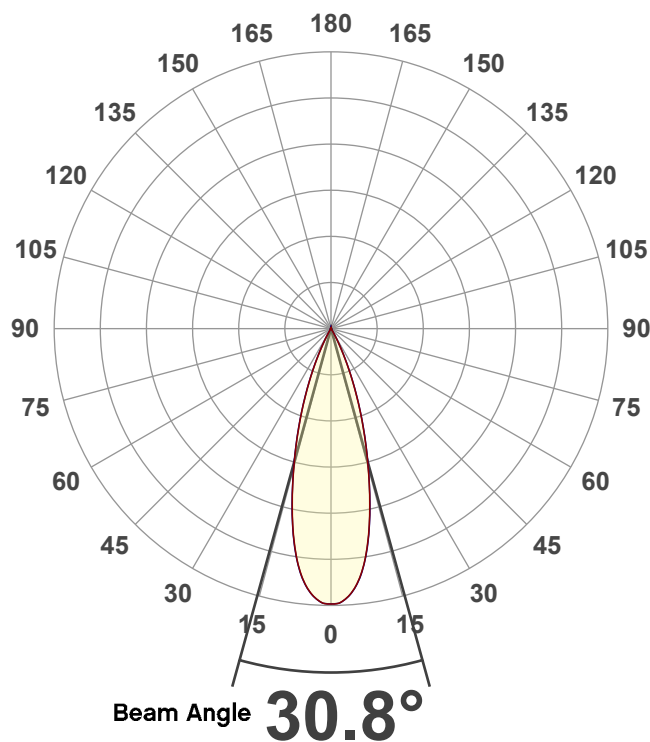
AC Supply: 120 V, 60 Hz  
Power: 310.74 W  
Current: 2.60 A  
Power Factor: 0.99



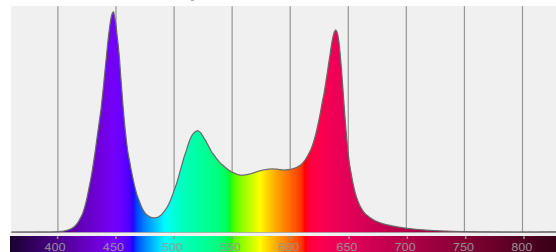
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/11/2019 to LM-63-2002 Standards.

## Overall Measurement

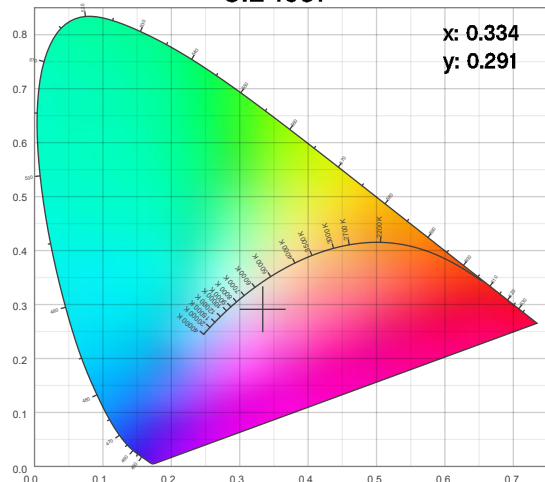
Angular Beam Distribution



Spectral Distribution



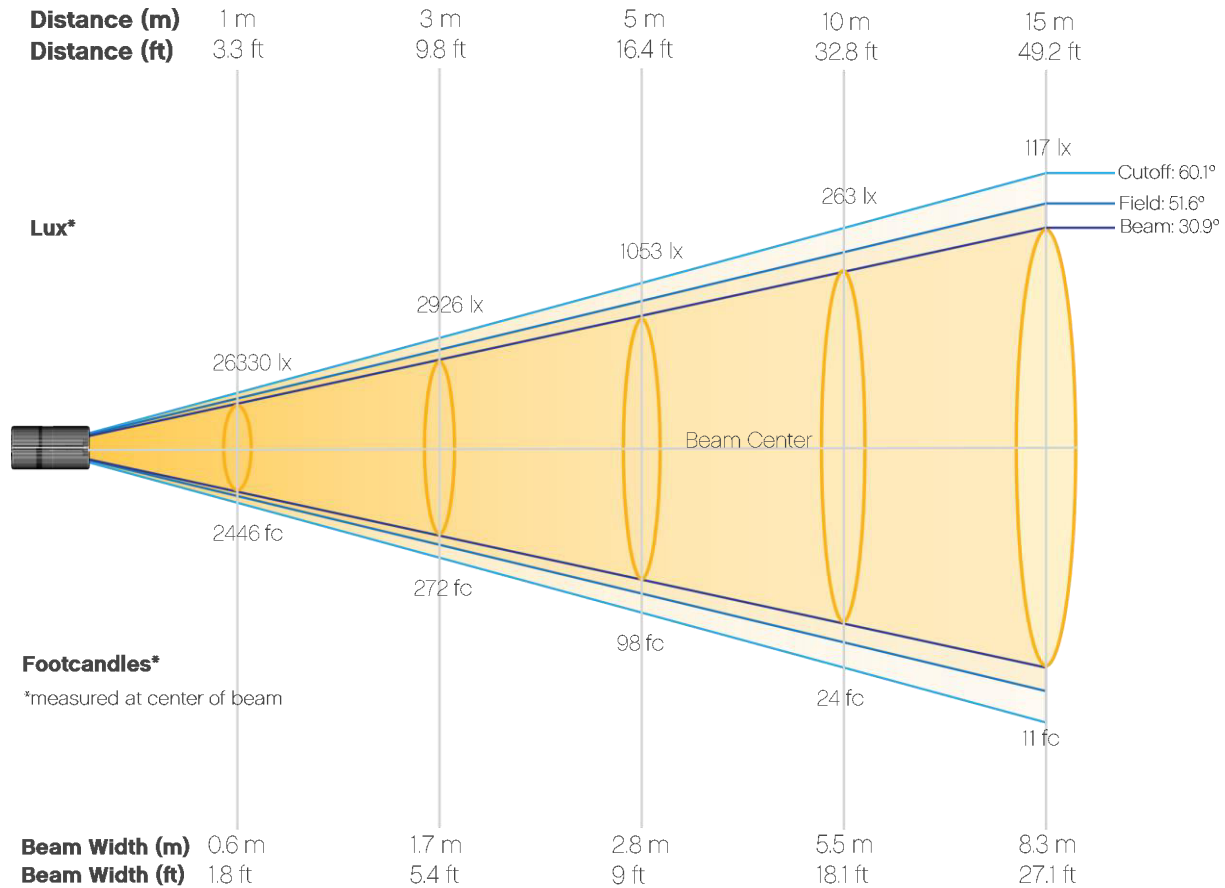
CIE 1931



# Photometric Report

Ovation F-915FC: 50% Zoom, Full Power

## Beam Details



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

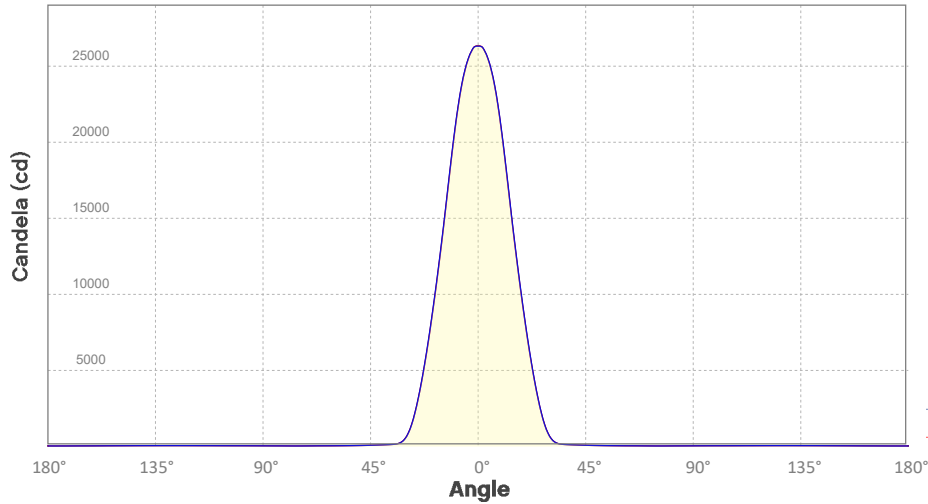
<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	26330	6583	2926	1646	1053	731	537	411	325	263
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	218	183	156	134	117	103	91	81	73	66
<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	2446	612	272	153	98	68	50	38	30	24
<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	20	17	14	12	11	10	8	8	7	6



# Photometric Report

Ovation F-915FC: 50% Zoom, Full Power

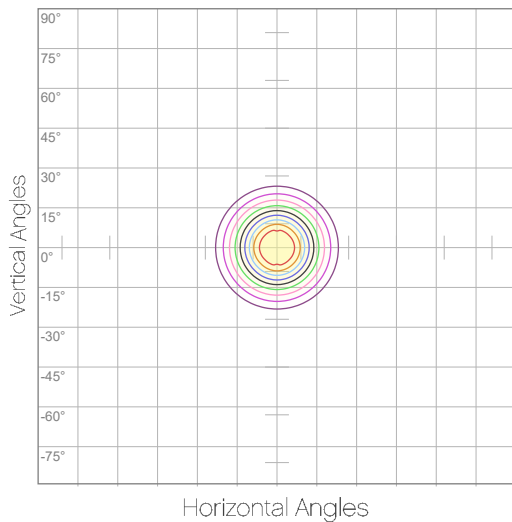
## Candela Plot



Beam Angle (50%): 30.8°  
 Field Angle (10%): 51.6°  
 Cutoff Angle (3%): 60.1°

— Horizontal Distribution  
 — Vertical Distribution

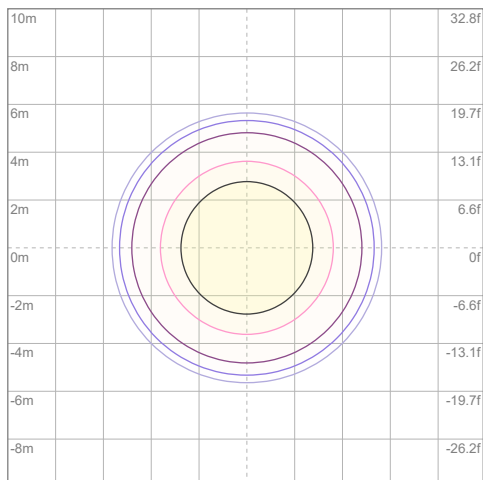
## Polar Diagrams



### iso-candela Diagram

10%	2633 cd
20%	5266 cd
30%	7899 cd
40%	10532 cd
50%	13165 cd
60%	15798 cd
70%	18431 cd
80%	21064 cd
90%	23697 cd

Conditions:  
 Number of c-planes: 8  
 Candela at center: 26330 cd



### iso-illuminance Diagram

3%	7.90 lx
5%	13.2 lx
10%	26.3 lx
30%	79.0 lx
50%	132 lx

Conditions:  
 Number of c-planes: 8  
 Lux at center: 263 lx

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

Mounting height: 10 meters / 33 feet

# Photometric Report

Ovation F-915FC: Full Spot, Full Power

## Report Summary

### Output

Total Lumens: 5266 lm  
Peak Intensity: 42066 cd  
Illuminance @ 5m: 1679 lux  
Fixture Efficacy: 17 lm/W

### Optical

Horizontal Beam Angle (50%): 18.3°  
Vertical Beam Angle (50%): 18.2°  
Horizontal Field Angle (10%): 32.6°  
Vertical Field Angle (10%): 32.6°  
Horizontal Cutoff Angle (3%): 39.2°  
Vertical Cutoff Angle (3%): 39.4°

### Conditions

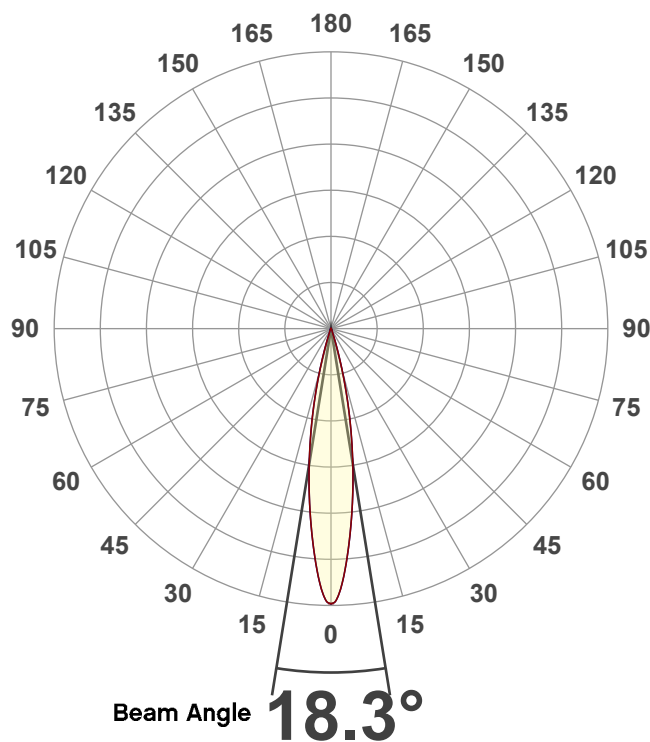
AC Supply: 119 V, 60 Hz  
Power: 318.22 W  
Current: 2.66 A  
Power Factor: 1.0



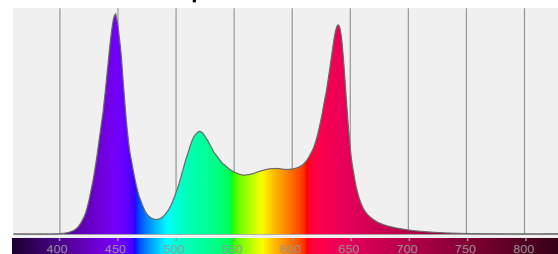
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## Overall Measurement

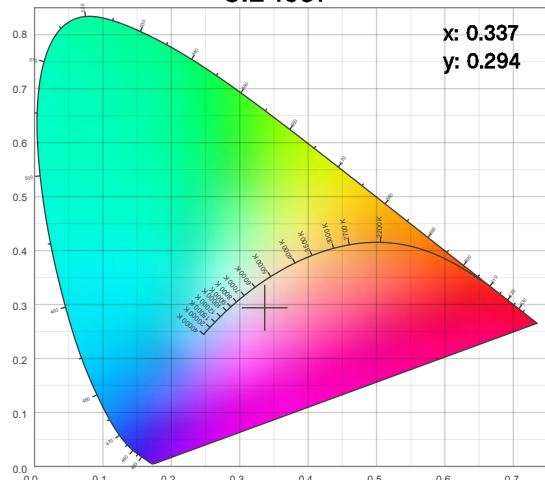
Angular Beam Distribution



Spectral Distribution



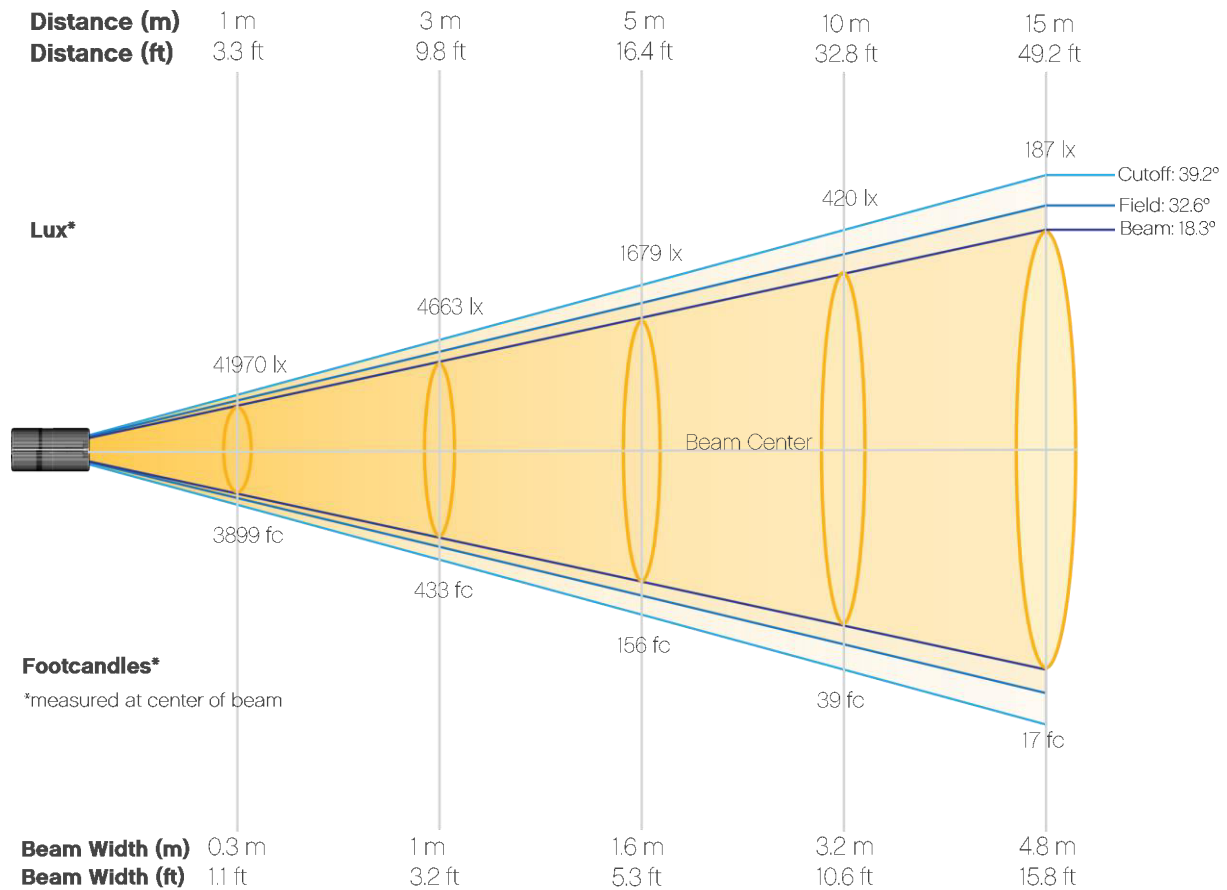
CIE 1931



# Photometric Report

Ovation F-915FC: Full Spot, Full Power

## Beam Details

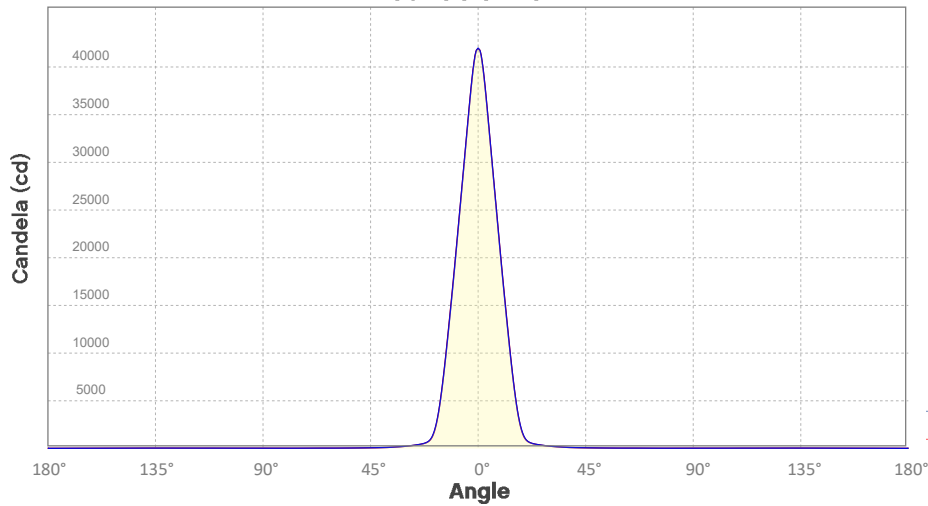


### Beam Illuminances from 1-20m (3.3-65.6ft)

<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	41970	10492	4663	2623	1679	1166	857	656	518	420
<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	347	291	248	214	187	164	145	130	116	105
<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	3899	975	433	244	156	108	80	61	48	39
<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	32	27	23	20	17	15	13	12	11	10

# Photometric Report

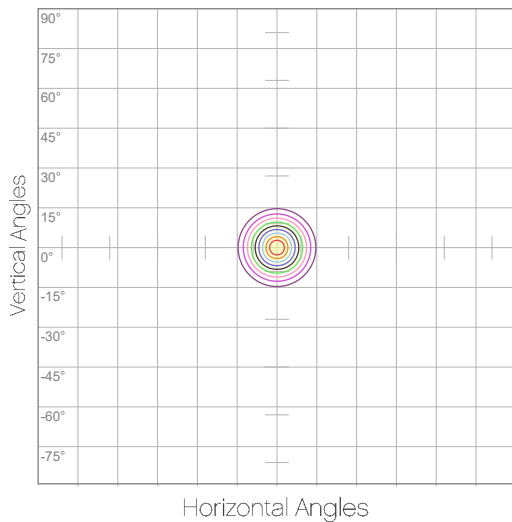
Ovation F-915FC: Full Spot, Full Power  
Candela Plot



Beam Angle (50%): 18.3°  
Field Angle (10%): 32.5°  
Cutoff Angle (3%): 39.3°

— Horizontal Distribution  
— Vertical Distribution

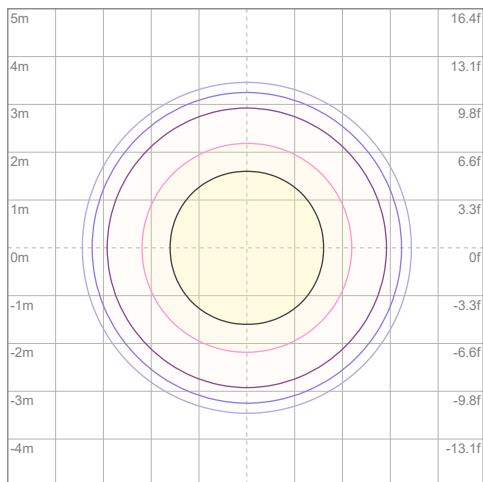
## Polar Diagrams



### iso-candela Diagram

10%	4197 cd
20%	8394 cd
30%	12591 cd
40%	16788 cd
50%	20985 cd
60%	25182 cd
70%	29379 cd
80%	33576 cd
90%	37773 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 41970 cd



### iso-illuminance Diagram

3%	126 lx
5%	210 lx
10%	420 lx
30%	126 lx
50%	210 lx

Conditions:  
Number of c-planes: 8  
Lux at center: 420 lx

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

Mounting height: 10 meters / 33 feet

# Chromaticity Report

Ovation F-915FC: 3200K

## Report Summary

### Measurements

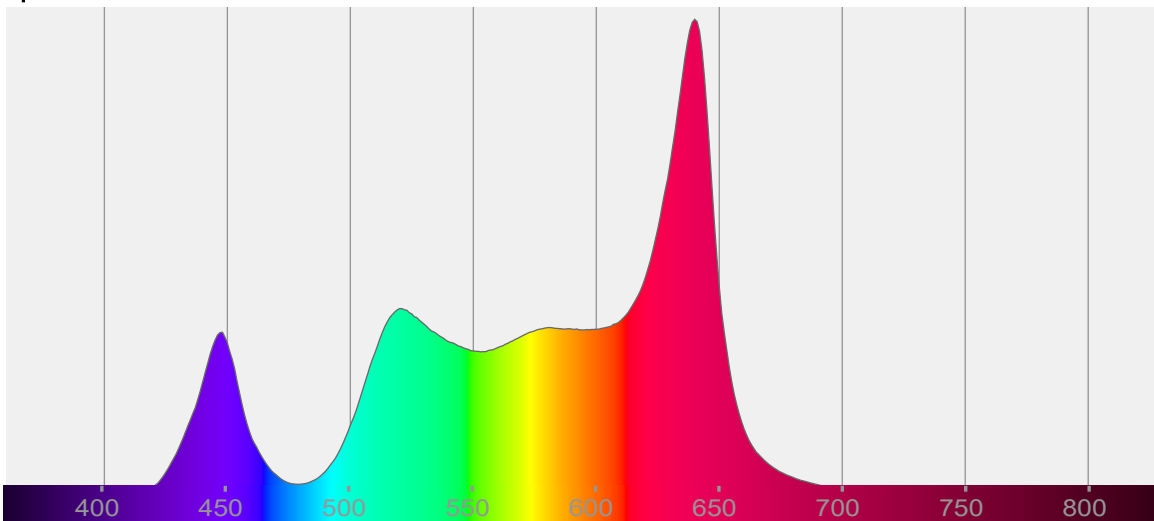
Total Lumens: 7422 lm  
Peak Intensity: 25434 cd  
Fixture Efficacy: 29 lm/W

Correlated Color Temperature: 3179K  
 $\Delta uv$ : -0.0008

CRI: 87.4      CRI R9 Value: 64.5  
CQS: 88.7  
TLCI: 68  
TM-30-18 Rf: 86.9  
TM-30-18 Rg: 111.4  
1<sup>st</sup> Dominant Wavelength: 640 nm  
2<sup>nd</sup> Dominant Wavelength: 520 nm



### Spectral Distribution



#### Tested Color

**3179 K**  
CIE 1931 Coordinates:  
X: 0.424    Y: 0.397

#### Color Temperature

3179 K

#### Light Quality

CRI: 87.4

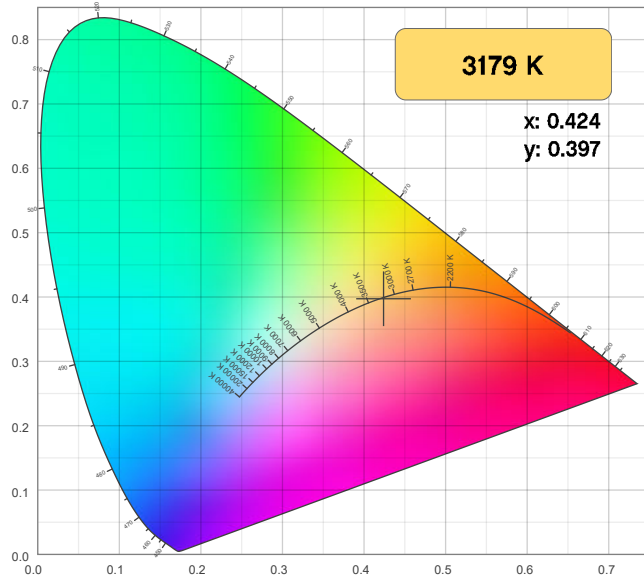
#### Notes:

# Chromaticity Report

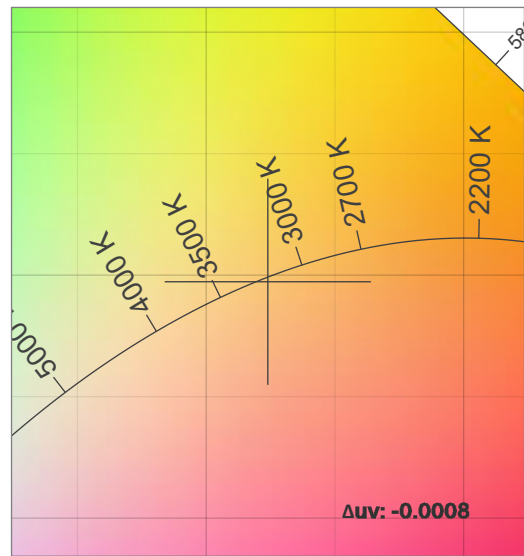
Ovation F-915FC: 3200K

## Chromaticity

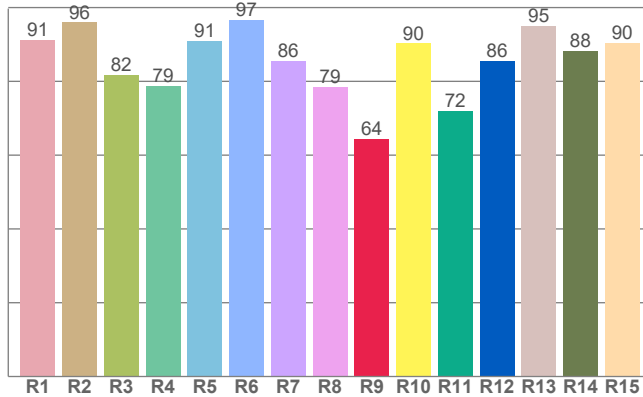
CIE 1931



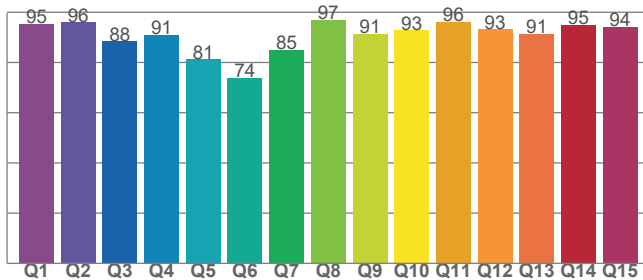
CIE 1931 - Zoom



CRI: 87.4 (R1-R8)



CQS: 88.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3179 K	0.424	0.397

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0008	0.397	0.245

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
87.4	64.5	88.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
68	86.9	111.4

# Chromaticity Report

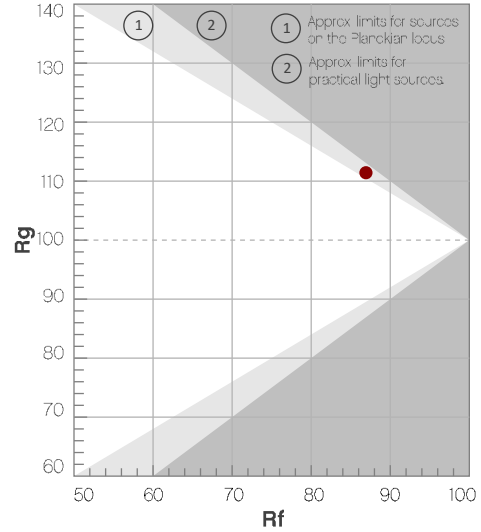
Ovation F-915FC: 3200K

## TM-30-18 Details

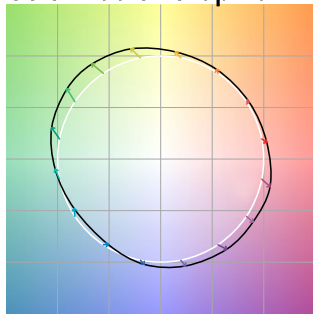
**Rf 86.9**  
Fidelity Index (R<sub>f</sub>)

**Rg 111.4**  
Gamut Index (R<sub>g</sub>)

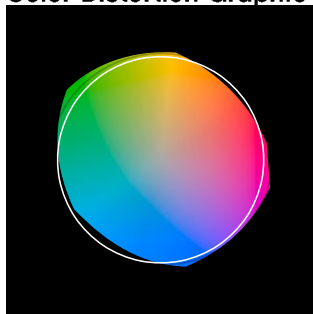
Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	88	4%	-4%
2	92	2%	-2%
3	91	2%	3%
4	88	5%	6%
5	85	10%	7%
6	79	14%	4%
7	77	13%	-6%
8	79	10%	-9%
9	85	2%	-10%
10	87	-4%	-7%
11	90	-3%	4%
12	89	3%	4%
13	90	6%	3%
14	89	8%	5%
15	87	8%	-1%
16	87	9%	-6%



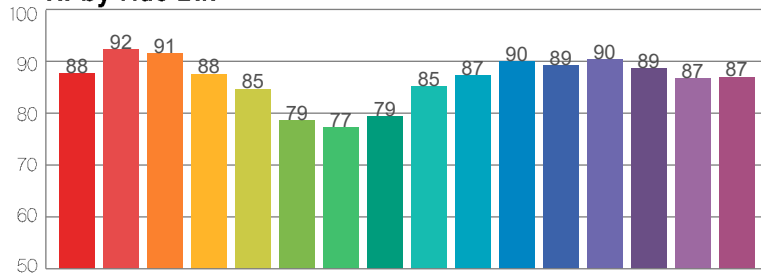
Color Vector Graphic



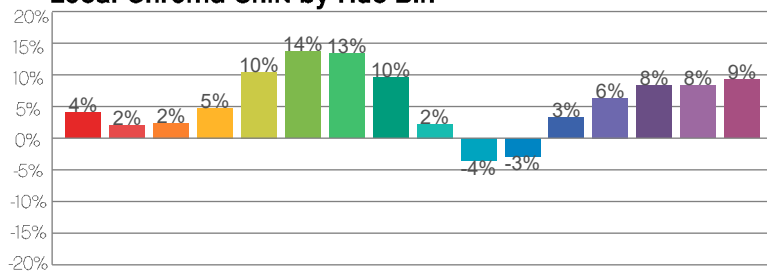
Color Distortion Graphic



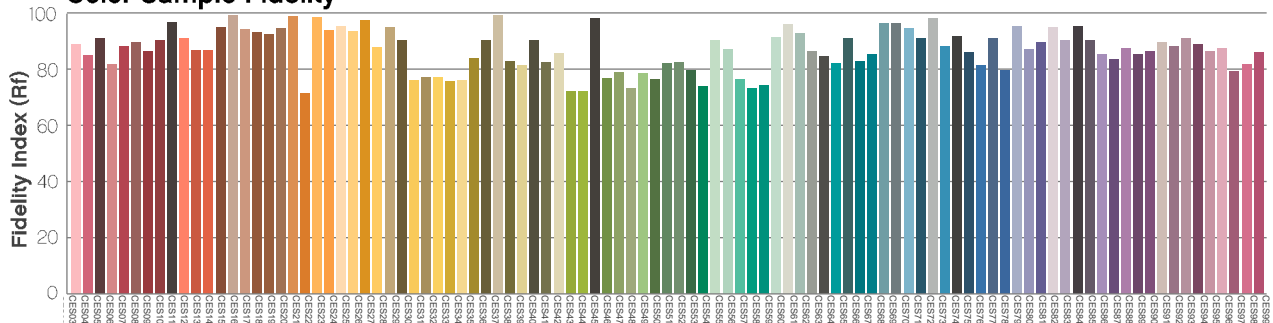
R<sub>f</sub> by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



# Chromaticity Report

Ovation F-915FC: 5600K

## Report Summary

### Measurements

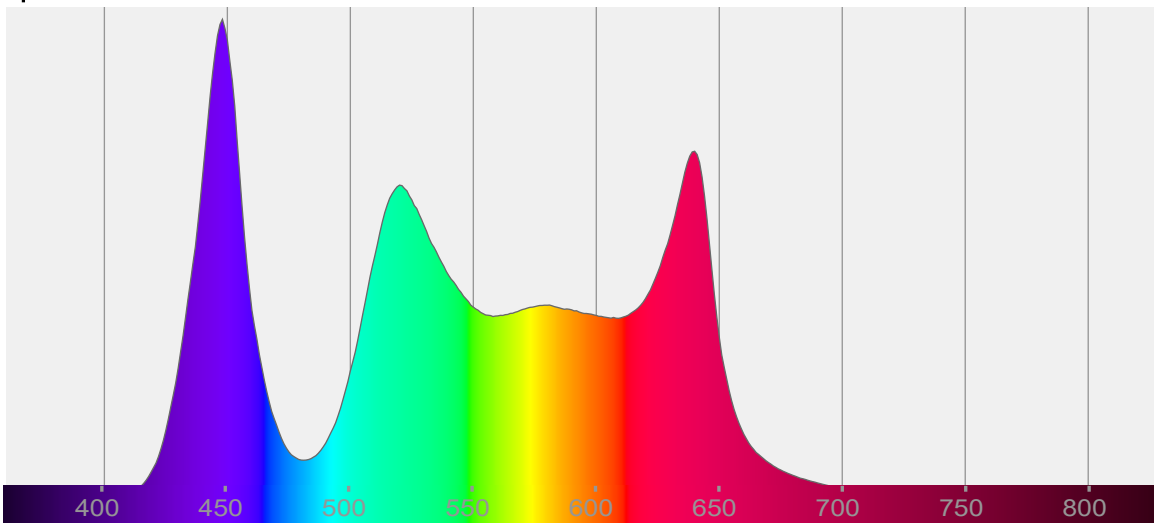
Total Lumens: 8283 lm  
Peak Intensity: 27840 cd  
Fixture Efficacy: 28 lm/W

Correlated Color Temperature: 5586K  
 $\Delta uv$ : -0.0049

CRI: 85.7      CRI R9 Value: 75.4  
CQS: 89.3  
TLCI: 76  
TM-30-18 Rf: 84.9  
TM-30-18 Rg: 110.6  
1<sup>st</sup> Dominant Wavelength: 448 nm  
2<sup>nd</sup> Dominant Wavelength: 640 nm



### Spectral Distribution



#### Tested Color

**5586 K**

CIE 1931 Coordinates:  
X: 0.331    Y: 0.336

#### Color Temperature

5586 K

#### Light Quality

CRI: 85.7

#### Notes:

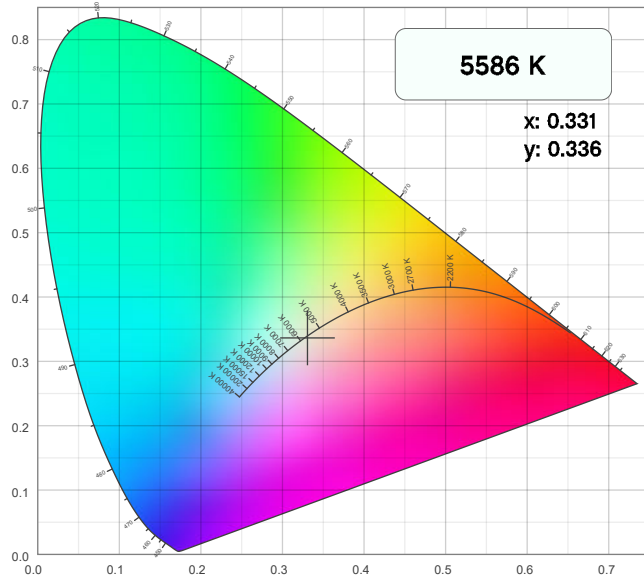


# Chromaticity Report

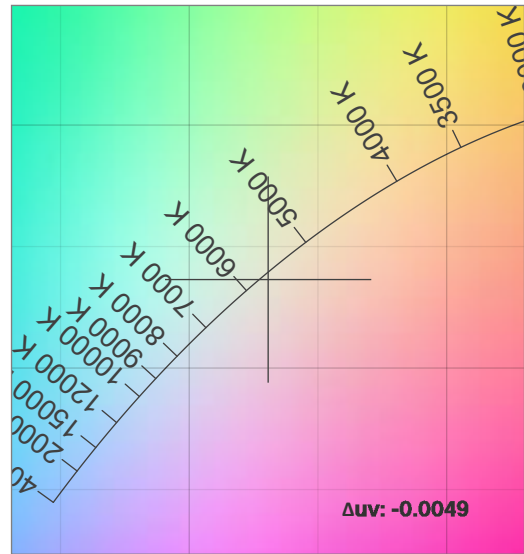
Ovation F-915FC: 5600K

## Chromaticity

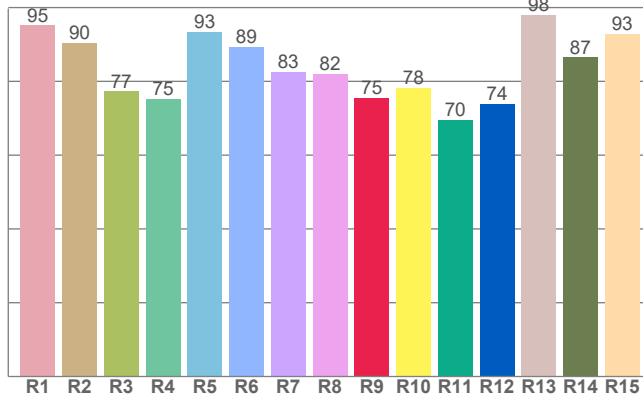
CIE 1931



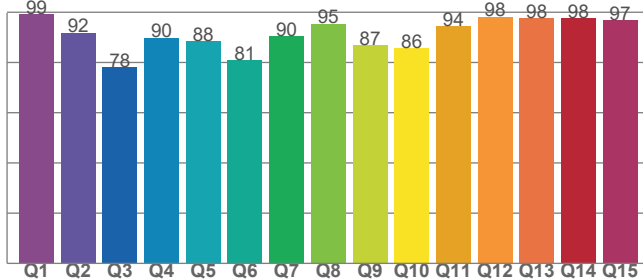
CIE 1931 - Zoom



CRI: 85.7 (R1-R8)



CQS: 89.3



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5586 K	0.331	0.336

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0049	0.336	0.207

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.7	75.4	89.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
76	84.9	110.6

# Chromaticity Report

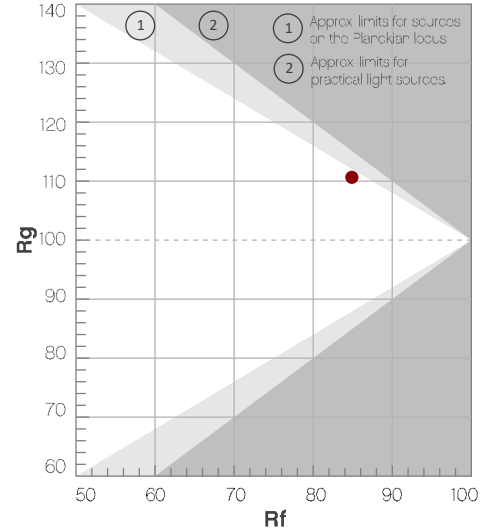
Ovation F-915FC: 5600K

## TM-30-18 Details

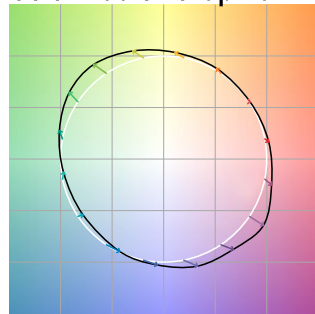
**Rf 84.9**  
Fidelity Index (R<sub>f</sub>)

**Rg 110.6**  
Gamut Index (R<sub>g</sub>)

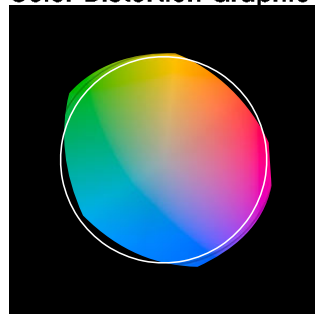
Hue Bin	R <sub>f</sub>	Chroma Shift	Hue Shift
1	90	3%	-3%
2	95	0%	0%
3	88	2%	6%
4	84	4%	9%
5	81	9%	9%
6	79	14%	5%
7	82	12%	-3%
8	86	5%	-7%
9	91	-2%	-6%
10	91	-5%	1%
11	77	-2%	14%
12	80	2%	14%
13	84	8%	12%
14	80	10%	7%
15	83	16%	0%
16	86	8%	-4%



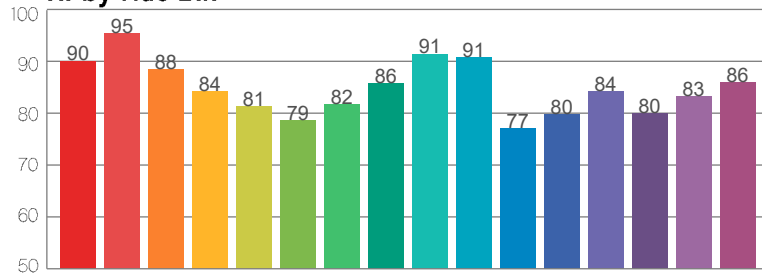
Color Vector Graphic



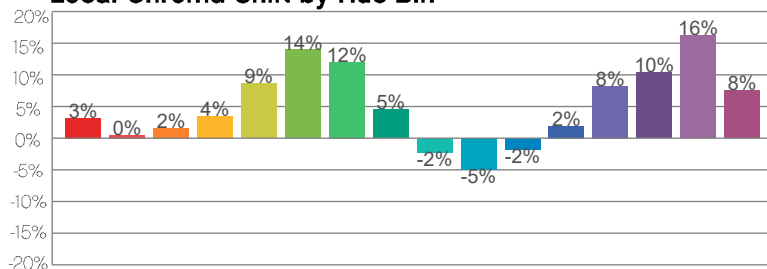
Color Distortion Graphic



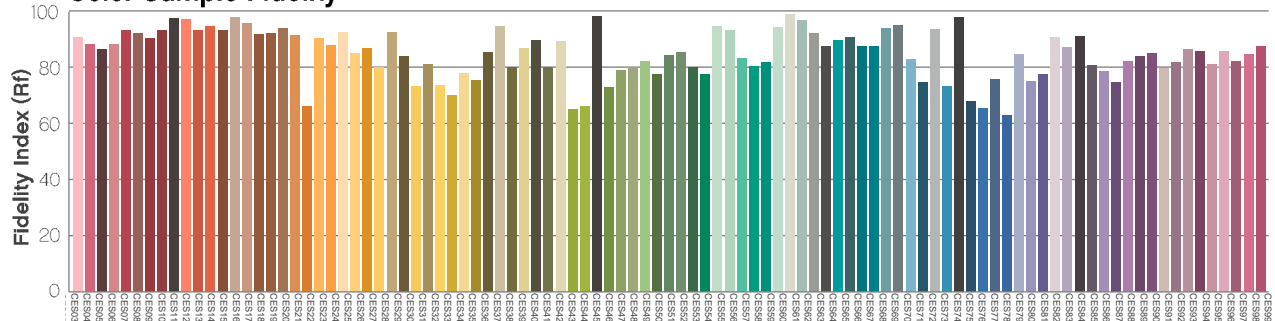
R<sub>f</sub> by Hue Bin



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.

