

PHOTOMETRICS REPORT
OVATION
F-265WW



Table of Contents

1. Testing Process	1
2. Photometric Reports	2
Full Flood – Full Power	2
Report Summary	2
Overall Measurement	2
Beam Details	3
Polar Diagrams	4
Full Spot – Full Power	5
Report Summary	5
Overall Measurement	5
Beam Details	6
Polar Diagrams	7
50% Zoom – Full Power	8
Report Summary	8
Overall Measurement	8
Beam Details	9
Polar Diagrams	10
3. Chromaticity Reports	11
Full Power	11
Report Summary	11
Chromaticity	12
TM-30-18 Details	13
4. Contact Us	14

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

Ovation F-265WW: Full Flood, Full Power

Report Summary

Output

Total Lumens: 14341 lm
Peak Intensity: 28097 cd
Illuminance @ 5m: 1123 lux
Fixture Efficacy: 61 lm/W

Optical

Horizontal Beam Angle (50%): 41.6°
Vertical Beam Angle (50%): 41.8°
Horizontal Field Angle (10%): 62.7°
Vertical Field Angle (10%): 62.9°
Horizontal Cutoff Angle (3%): 75.8°
Vertical Cutoff Angle (3%): 75.2°

Conditions

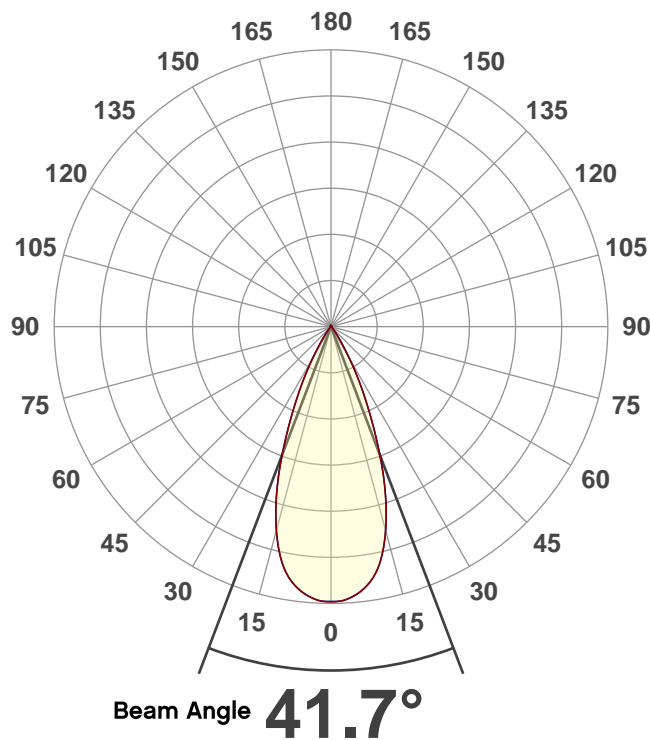
AC Supply: 120 V, 60 Hz
Power: 236.31 W
Current: 1.97 A
Power Factor: 0.99



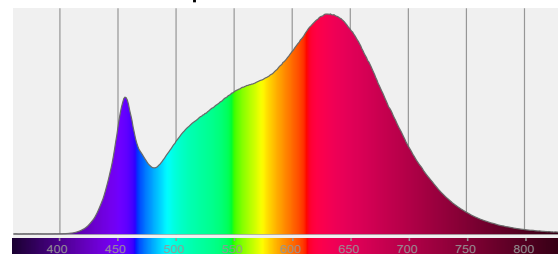
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/30/2019 to LM-63-2002 Standards.

Overall Measurement

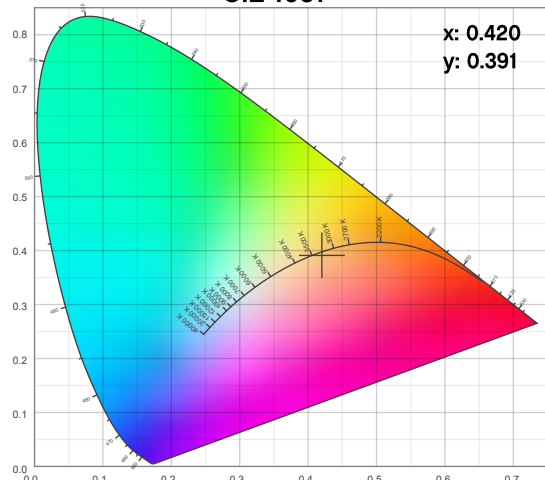
Angular Beam Distribution



Spectral Distribution



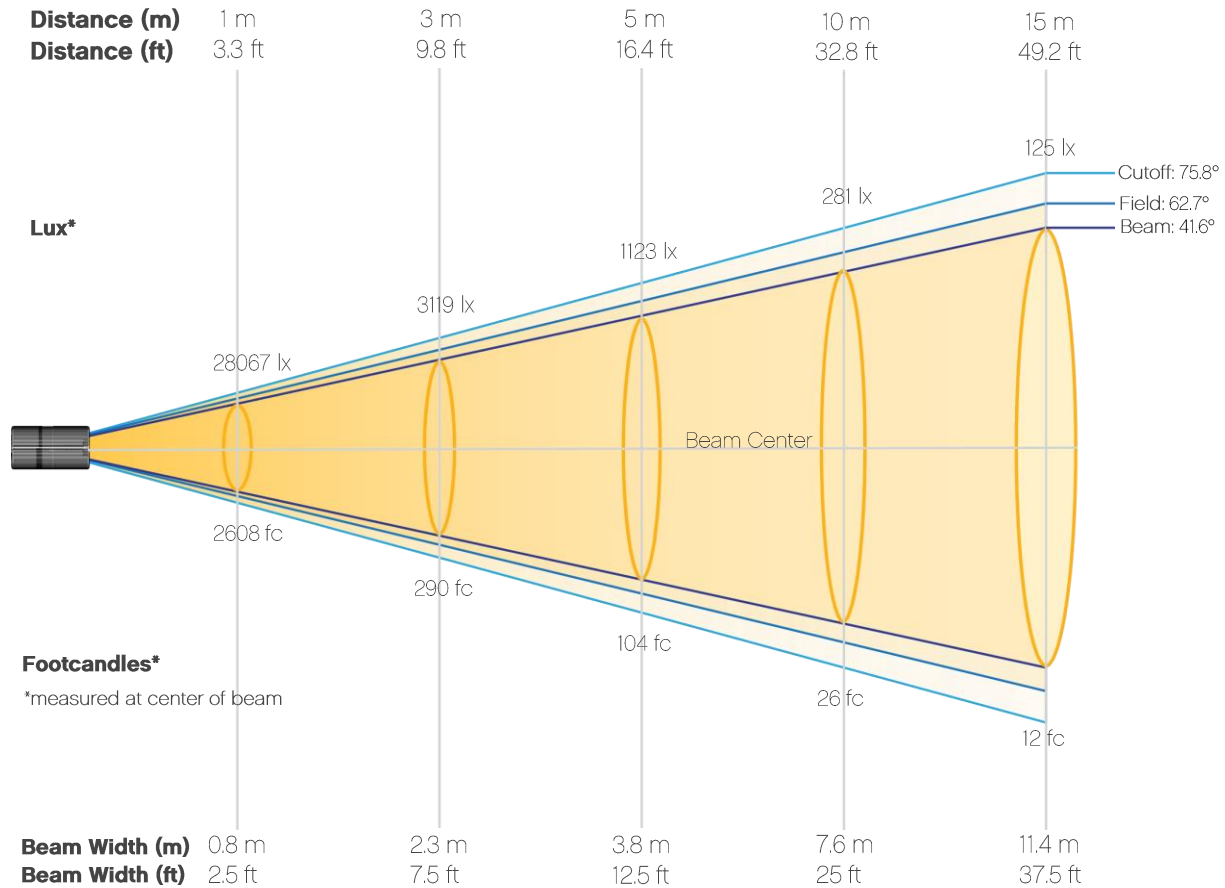
CIE 1931



Photometric Report

Ovation F-265WW: Full Flood, Full Power

Beam Details

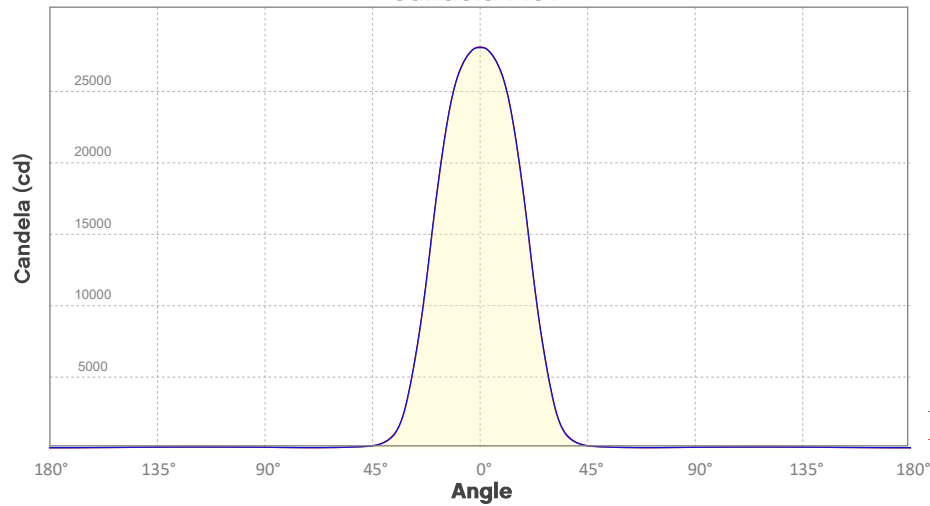


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	28067	7017	3119	1754	1123	780	573	439	347	281
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	232	195	166	143	125	110	97	87	78	70
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	2608	652	290	163	104	72	53	41	32	26
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	22	18	15	13	12	10	9	8	7	7

Photometric Report

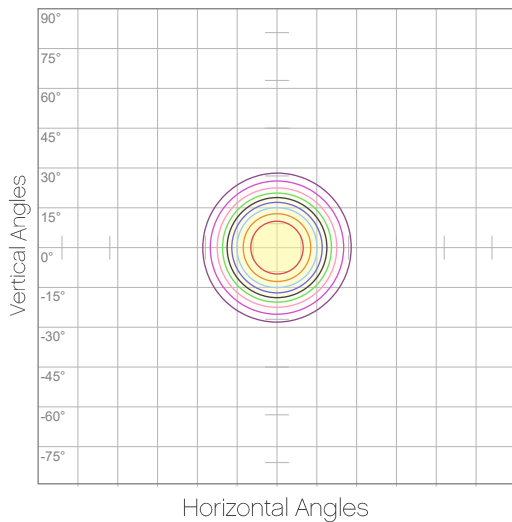
Ovation F-265WW: Full Flood, Full Power
Candela Plot



Beam Angle (50%): 41.7°
Field Angle (10%): 62.9°
Cutoff Angle (3%): 75.4°

— Horizontal Distribution
— Vertical Distribution

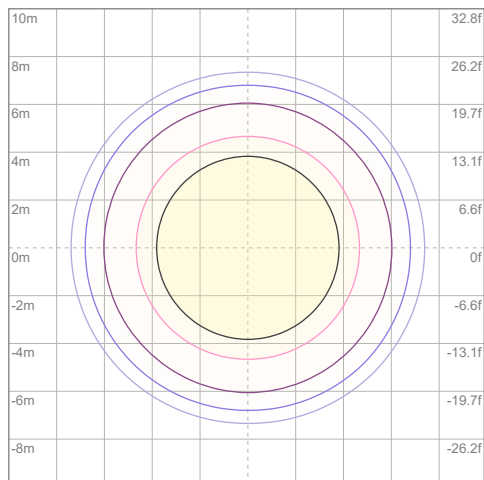
Polar Diagrams



iso-candela Diagram

10%	2807 cd
20%	5613 cd
30%	8420 cd
40%	11227 cd
50%	14034 cd
60%	16840 cd
70%	19647 cd
80%	22454 cd
90%	25260 cd

Conditions:
Number of c-planes: 8
Candela at center: 28067 cd



iso-illuminance Diagram

3%	8.42 lx
5%	14.0 lx
10%	28.1 lx
30%	84.2 lx
50%	140 lx

Conditions:
Number of c-planes: 8
Lux at center: 281 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-265WW: Full Spot, Full Power

Report Summary

Output

Total Lumens: 10635 lm
Peak Intensity: 84490 cd
Illuminance @ 5m: 3375 lux
Fixture Efficacy: 45 lm/W

Optical

Horizontal Beam Angle (50%): 17.9°
Vertical Beam Angle (50%): 18°
Horizontal Field Angle (10%): 31.7°
Vertical Field Angle (10%): 31.9°
Horizontal Cutoff Angle (3%): 41.7°
Vertical Cutoff Angle (3%): 42.2°

Conditions

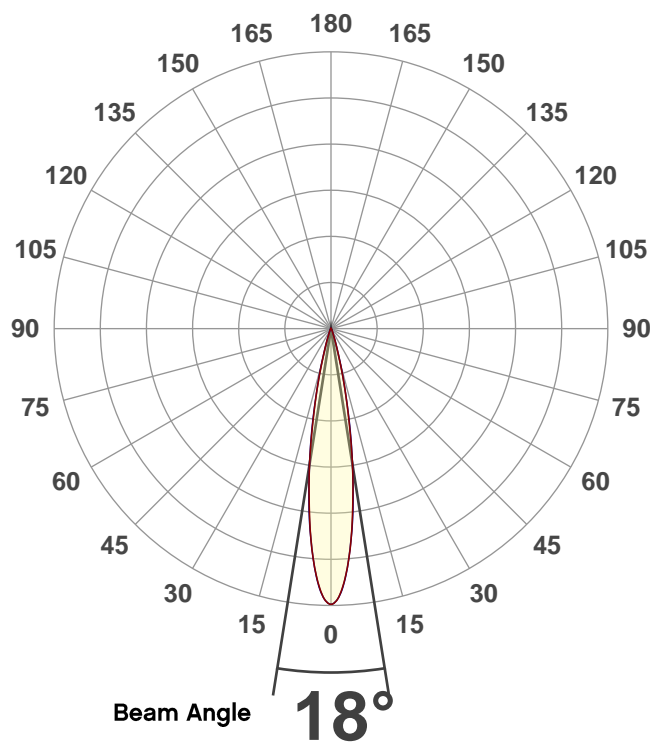
AC Supply: 120 V, 60 Hz
Power: 240.19 W
Current: 2.00 A
Power Factor: 0.99



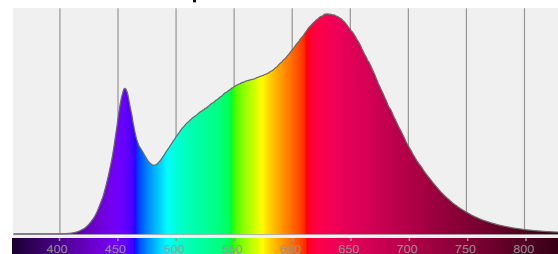
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/30/2019 to LM-63-2002 Standards.

Overall Measurement

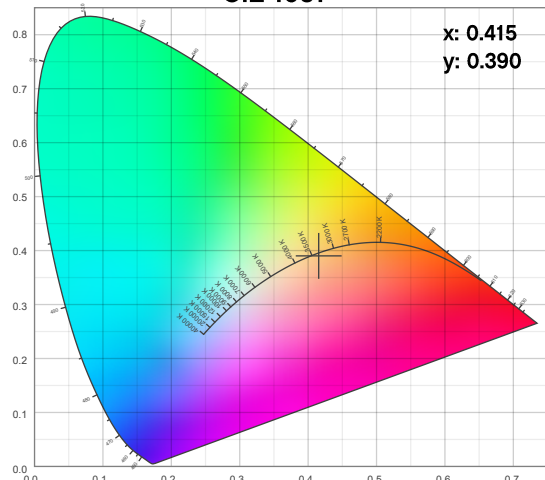
Angular Beam Distribution



Spectral Distribution



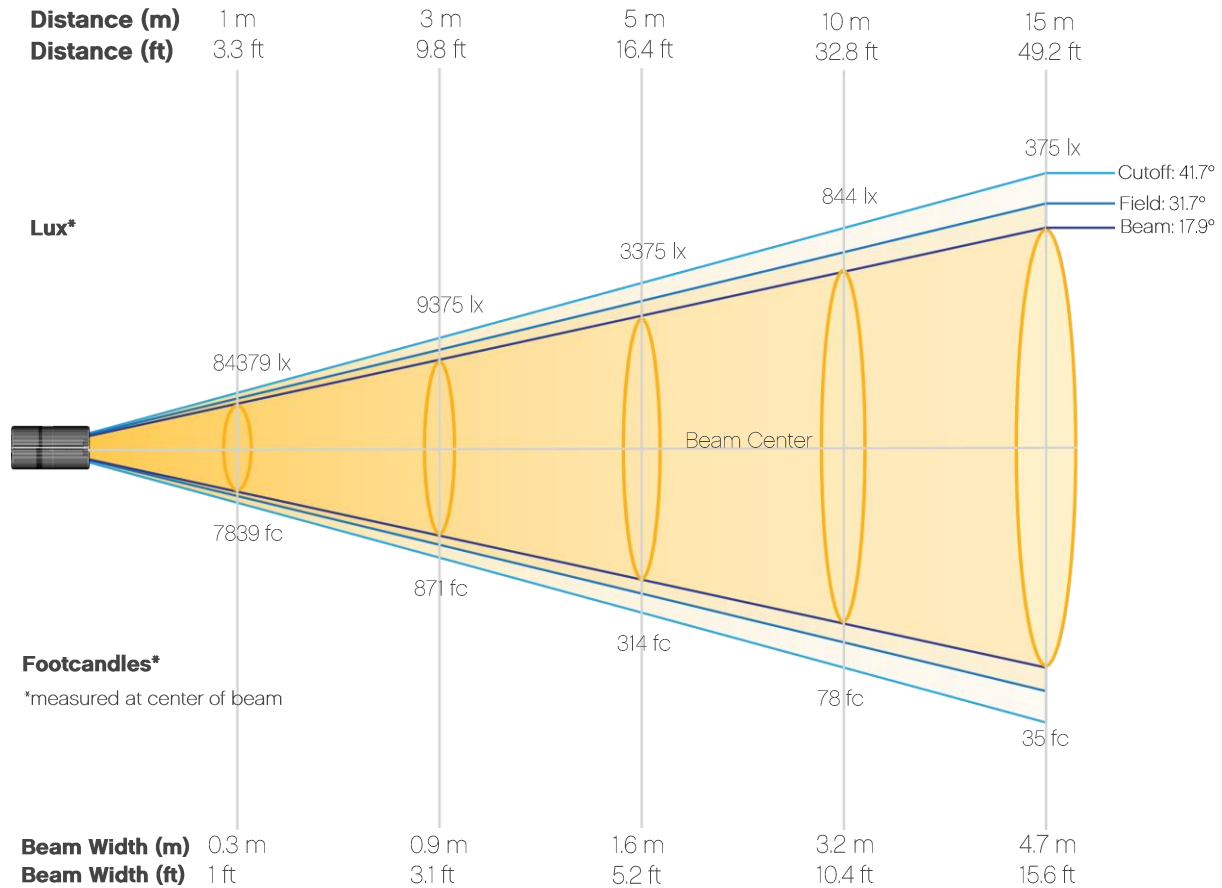
CIE 1931



Photometric Report

Ovation F-265WW: Full Spot, Full Power

Beam Details

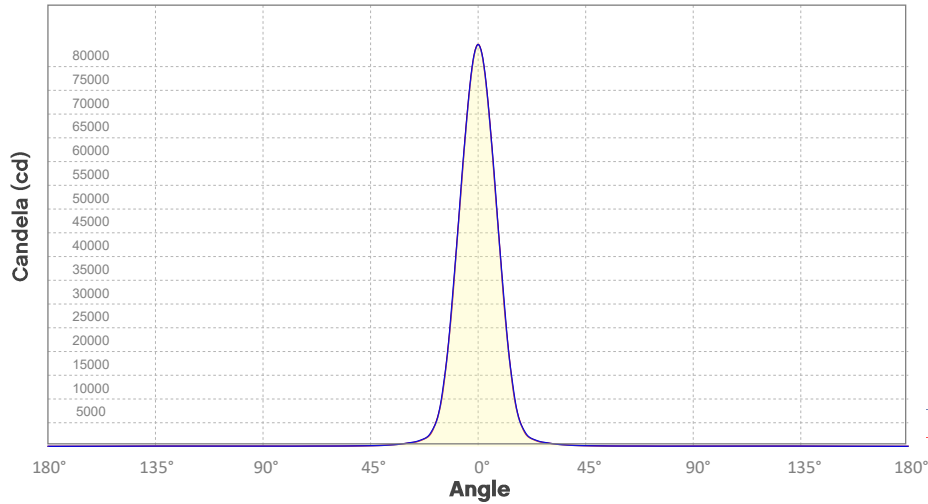


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	84379	21095	9375	5274	3375	2344	1722	1318	1042	844
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	697	586	499	431	375	330	292	260	234	211
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	7839	1960	871	490	314	218	160	122	97	78
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	65	54	46	40	35	31	27	24	22	20

Photometric Report

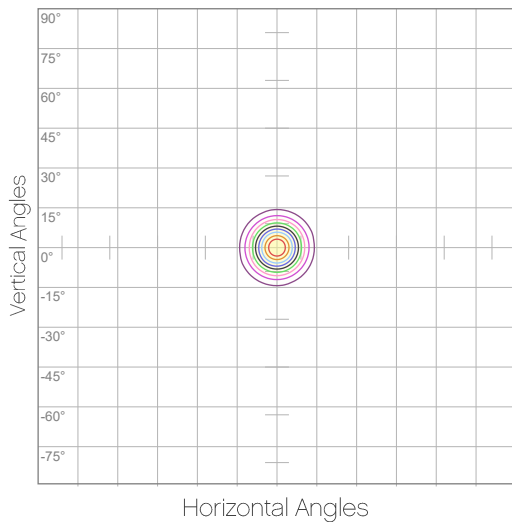
Ovation F-265WW: Full Spot, Full Power
Candela Plot



Beam Angle (50%): 18°
Field Angle (10%): 31.8°
Cutoff Angle (3%): 42°

— Horizontal Distribution
— Vertical Distribution

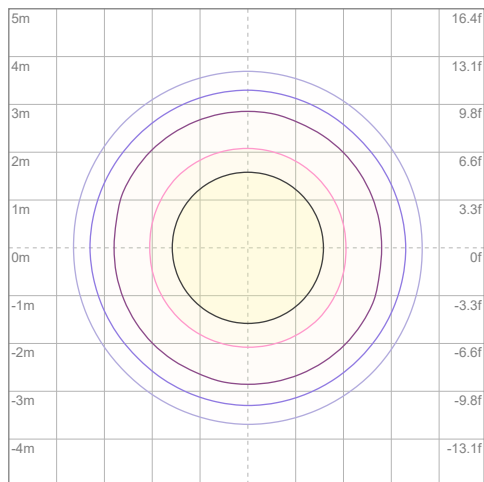
Polar Diagrams



iso-candela Diagram

10%	8438 cd
20%	16876 cd
30%	25314 cd
40%	33752 cd
50%	42189 cd
60%	50627 cd
70%	59065 cd
80%	67503 cd
90%	75941 cd

Conditions:
Number of c-planes: 8
Candela at center: 84379 cd



iso-illuminance Diagram

3%	25.3 lx
5%	42.2 lx
10%	84.4 lx
30%	253 lx
50%	422 lx

Conditions:
Number of c-planes: 8
Lux at center: 844 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-265WW: 50% Zoom, Full Power

Report Summary

Output

Total Lumens: 13515 lm
Peak Intensity: 73970 cd
Illuminance @ 5m: 2956 lux
Fixture Efficacy: 58 lm/W

Optical

Horizontal Beam Angle (50%): 22.9°
Vertical Beam Angle (50%): 23°
Horizontal Field Angle (10%): 39.3°
Vertical Field Angle (10%): 39.4°
Horizontal Cutoff Angle (3%): 48°
Vertical Cutoff Angle (3%): 47.7°

Conditions

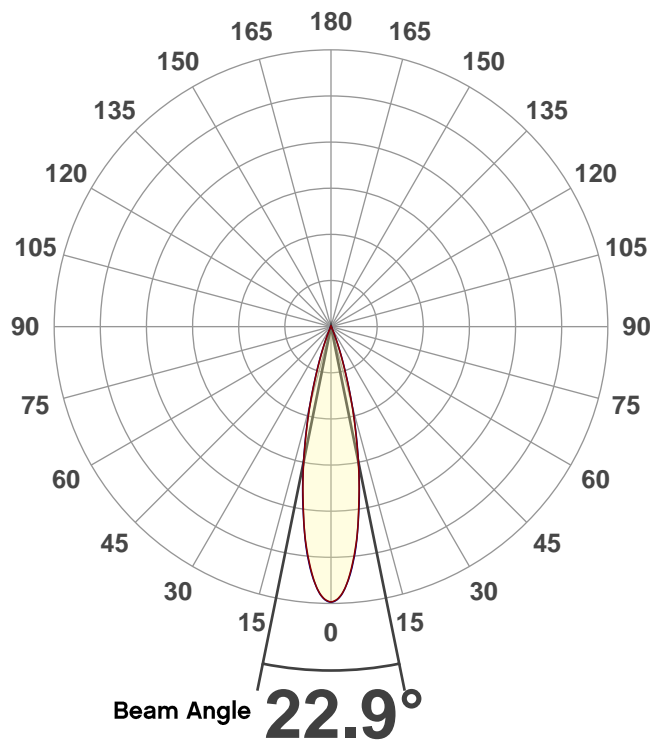
AC Supply: 120 V, 60.1 Hz
Power: 234.87 W
Current: 1.96 A
Power Factor: 0.99



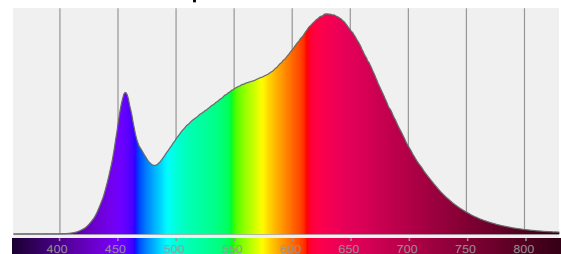
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Overall Measurement

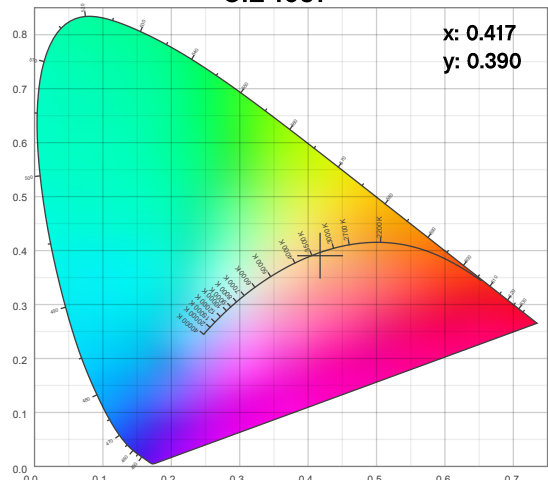
Angular Beam Distribution



Spectral Distribution



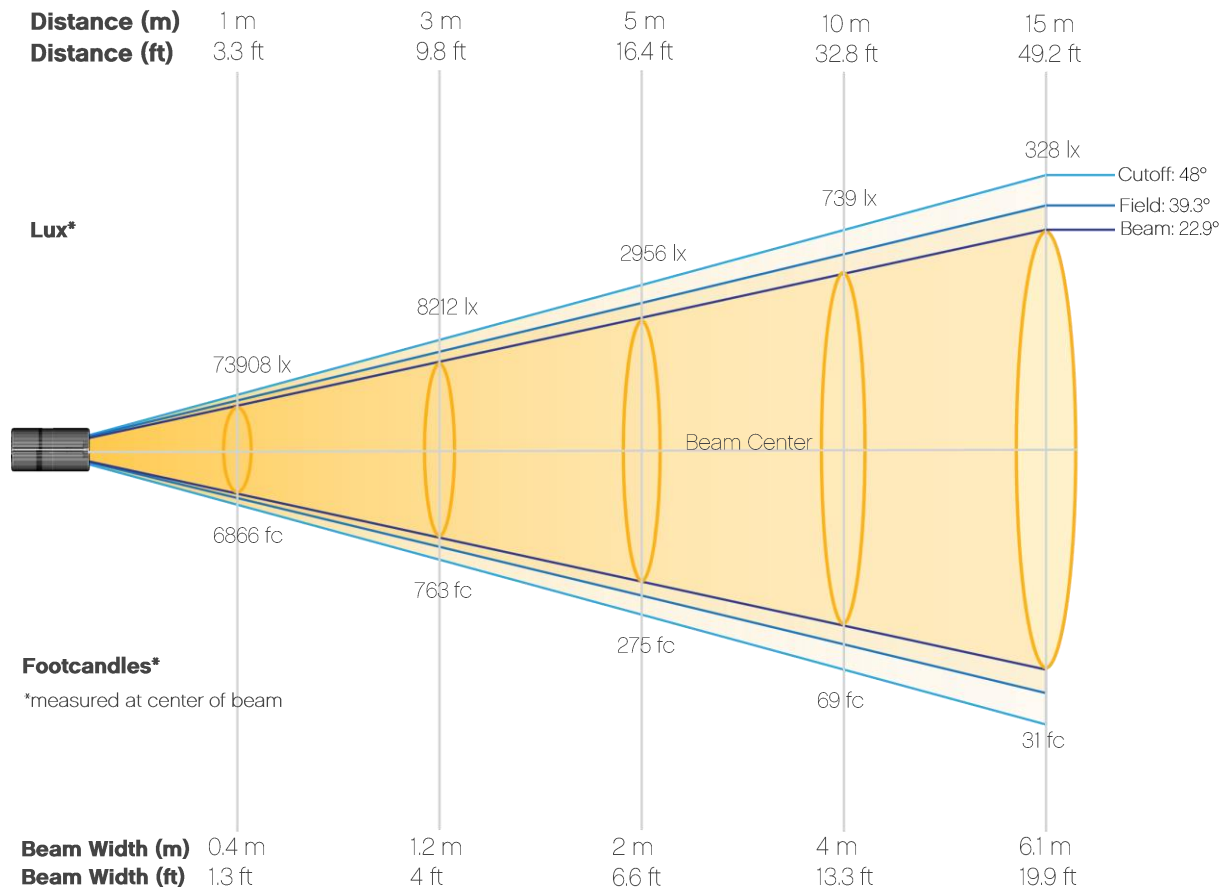
CIE 1931



Photometric Report

Ovation F-265WW: 50% Zoom, Full Power

Beam Details



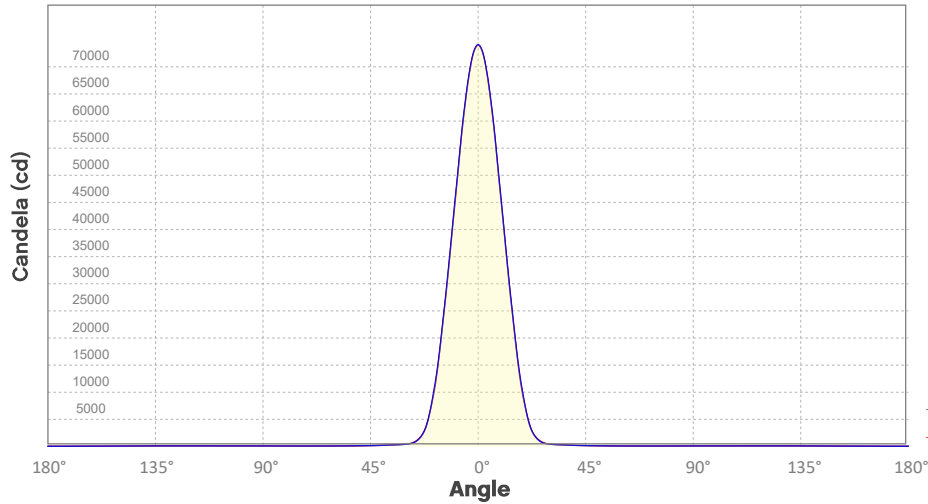
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	73908	18477	8212	4619	2956	2053	1508	1155	912	739
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	611	513	437	377	328	289	256	228	205	185
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	6866	1717	763	429	275	191	140	107	85	69
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	57	48	41	35	31	27	24	21	19	17

Photometric Report

Ovation F-265WW: 50% Zoom, Full Power

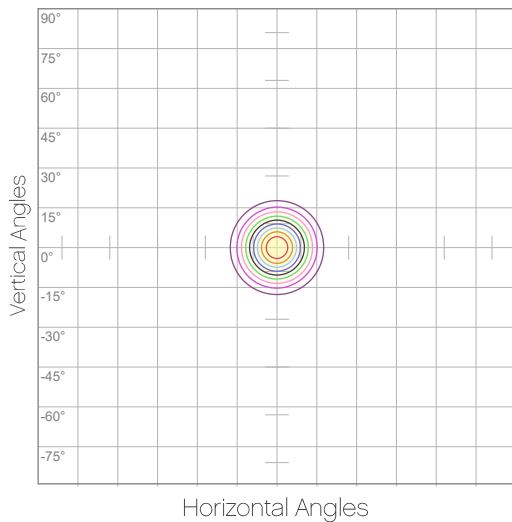
Candela Plot



Beam Angle (50%): 22.9°
 Field Angle (10%): 39.4°
 Cutoff Angle (3%): 48°

— Horizontal Distribution
 — Vertical Distribution

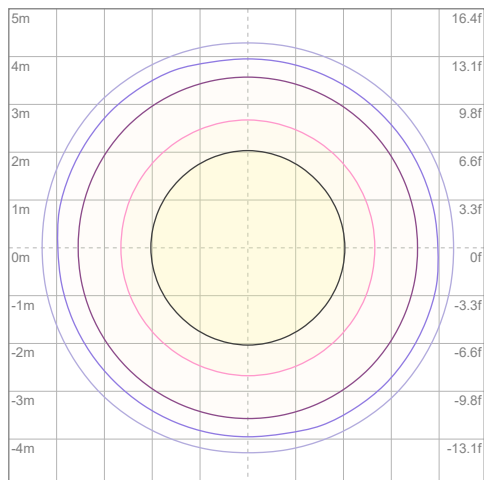
Polar Diagrams



iso-candela Diagram

10%	7391 cd
20%	14782 cd
30%	22172 cd
40%	29563 cd
50%	36954 cd
60%	44345 cd
70%	51736 cd
80%	59126 cd
90%	66517 cd

Conditions:
 Number of c-planes: 8
 Candela at center: 73908 cd



iso-illuminance Diagram

3%	22.2 lx
5%	37.0 lx
10%	73.9 lx
30%	222 lx
50%	370 lx

Conditions:
 Number of c-planes: 8
 Lux at center: 739 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-265WW: Full Power

Report Summary

Measurements

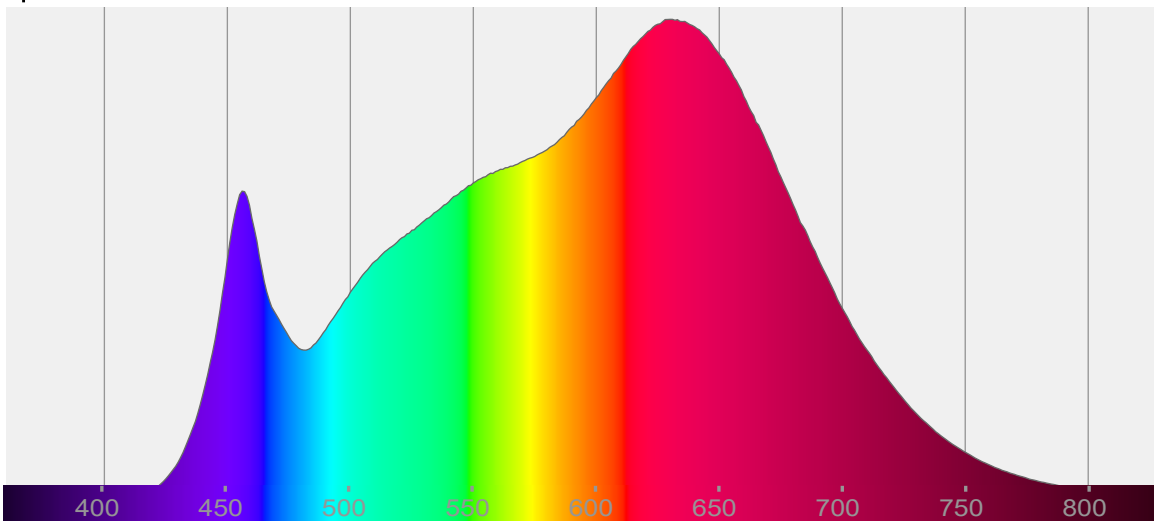
Total Lumens: 13515 lm
Peak Intensity: 73970 cd
Fixture Efficacy: 58 lm/W

Correlated Color Temperature: 3246K
 Δuv : -0.0025

CRI: 97.9 CRI R9 Value: 95.5
CQS: 95.2
TLCI: 98
TM-30-18 Rf: 94.0
TM-30-18 Rg: 100.7
1st Dominant Wavelength: 630 nm
2nd Dominant Wavelength: 456 nm



Spectral Distribution



Tested Color

3246 K

CIE 1931 Coordinates:
X: 0.417 Y: 0.390

Color Temperature

3246 K

Light Quality

CRI: 97.9

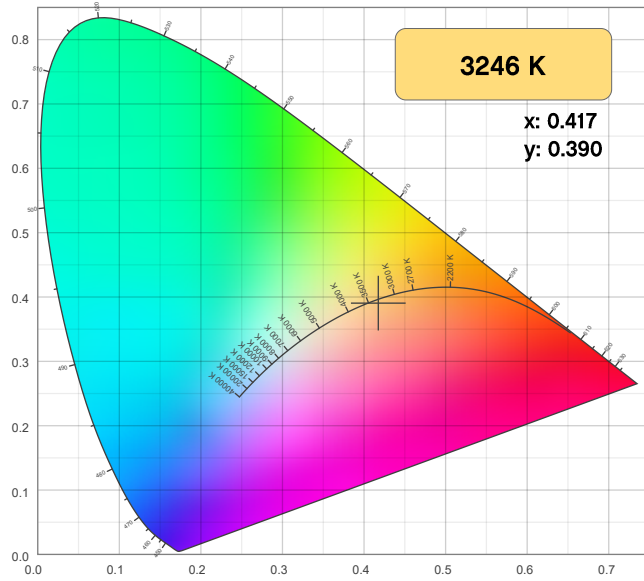
Notes:

Chromaticity Report

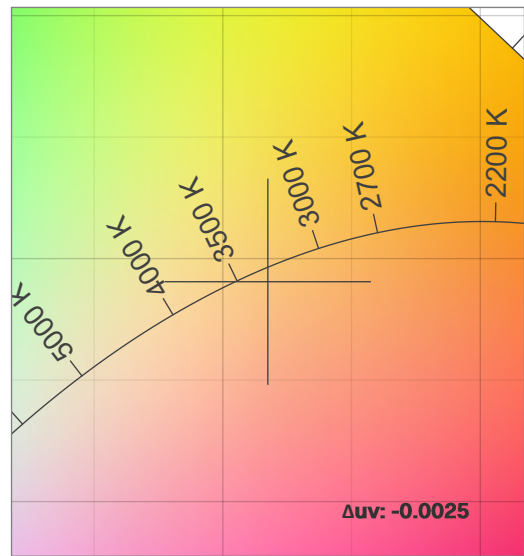
Ovation F-265WW: Full Power

Chromaticity

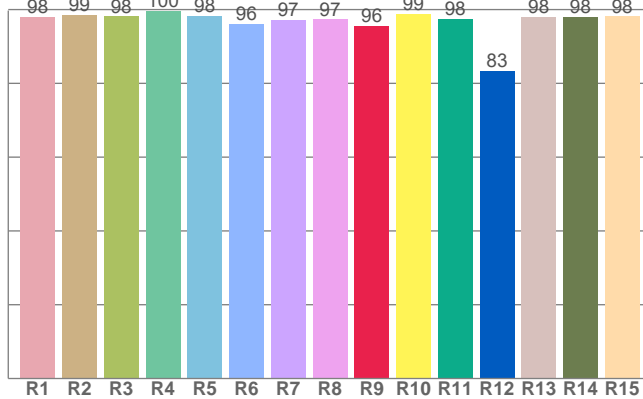
CIE 1931



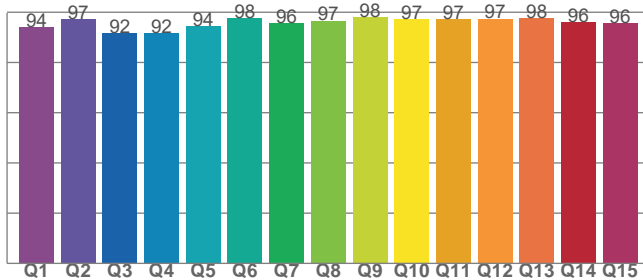
CIE 1931 - Zoom



CRI: 97.9 (R1-R8)



CQS: 95.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3246 K	0.417	0.390

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0025	0.390	0.244

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
97.9	95.5	95.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
98	94.0	100.7

Chromaticity Report

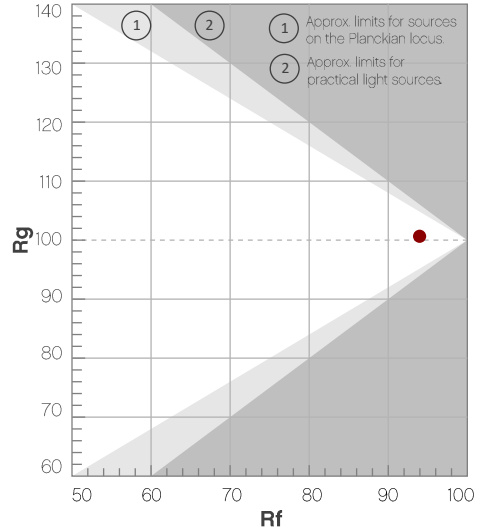
Ovation F-265WW: Full Power

TM-30-18 Details

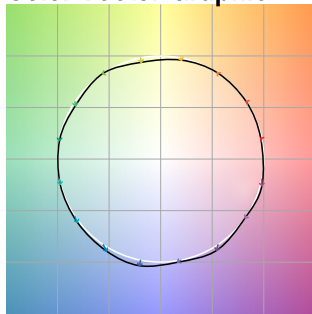
Rf 94.0
Fidelity Index (R_f)

Rg 100.7
Gamut Index (R_g)

Hue Bin	R _f	Chroma Shift	Hue Shift
1	95	-1%	1%
2	97	0%	0%
3	96	0%	1%
4	95	-2%	-1%
5	94	-4%	0%
6	97	0%	1%
7	93	-3%	3%
8	98	0%	1%
9	93	0%	5%
10	90	1%	6%
11	91	3%	6%
12	92	5%	0%
13	95	1%	-3%
14	93	4%	-4%
15	92	0%	-2%
16	91	1%	-6%



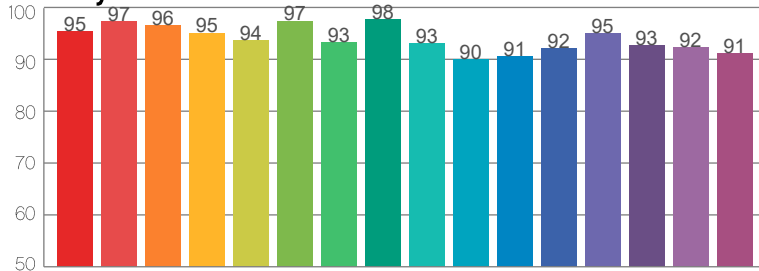
Color Vector Graphic



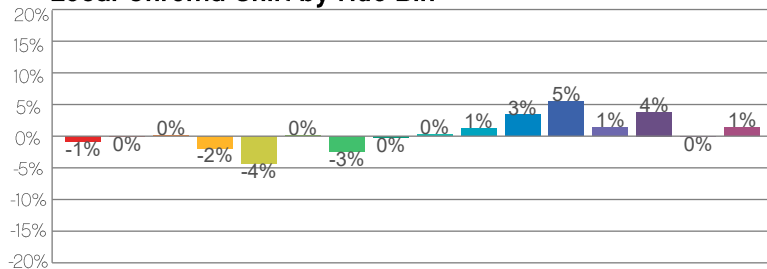
Color Distortion Graphic



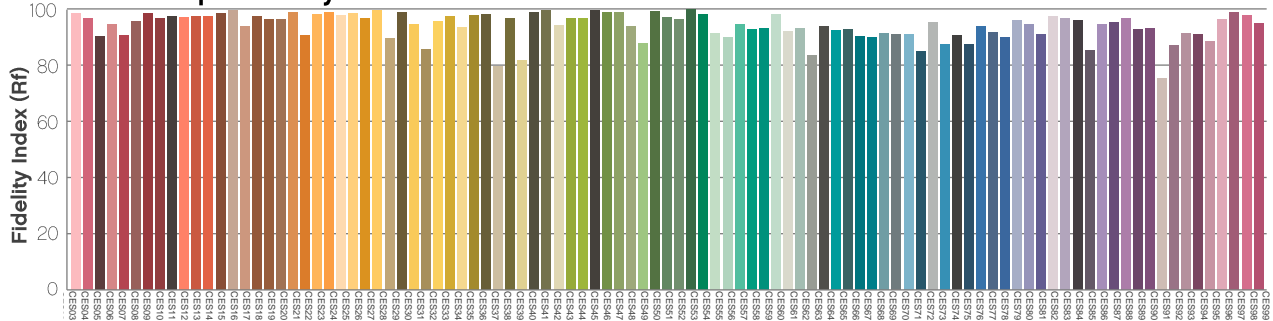
R_f by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Contact Us

General Information	Technical Support
Chauvet World Headquarters	
5200 NW 108 th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetprofessional.com
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Chauvet Germany	
Bruno-Bürgel-Str. 11 28759 Bremen, Germany Voice: +49 421 62 60 20	Email: DEtech@chauvetlighting.de Website: www.chauvetprofessional.eu
Chauvet Mexico	
Av. de las Partidas 34 - 3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Edo. de México, CP 52000 Voice: +52 (728) 690-2010	Email: servicio@chauvetlighting.de Website: www.chauvetprofessional.eu

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.