PHOTOMETRICS REPORT

OVATION
H-265WW

CHAUVET PROFESSIONAL

Table of Contents

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 H-265WW: 80deg Filter, Full Power

Report Summary

Output

Total Lumens: 9402 lm
Peak Intensity: 7609 cd
Illuminance @ 5m: 304 lux
Fixture Efficacy: 61 lm/W

Optical

Horizontal Beam Angle (50%): 49.5°
Vertical Beam Angle (50%): 49.2°
Horizontal Field Angle (10%): 134°
Vertical Field Angle (10%): 132.9°
Horizontal Cutoff Angle (3%): 153.4°
Vertical Cutoff Angle (3%): 153.4°

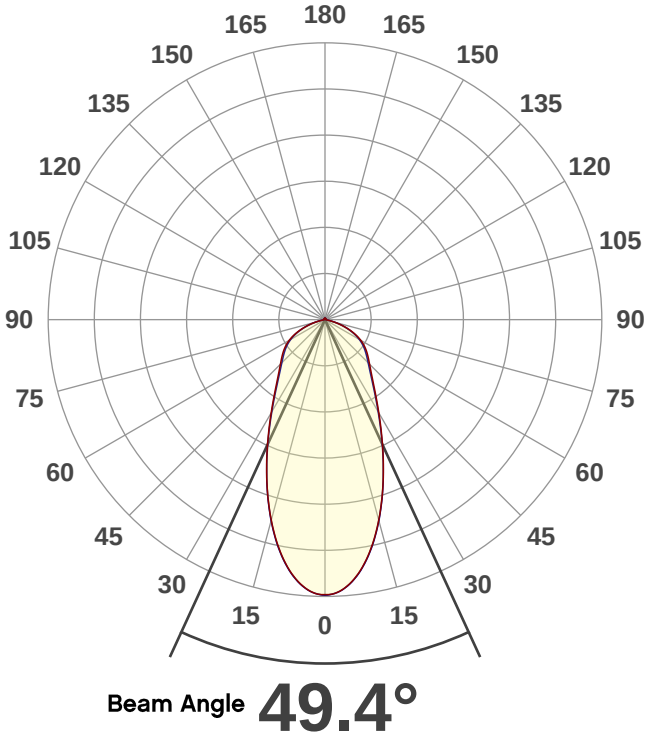
Conditions

AC Supply: 118 V, 60 Hz
Power: 156.65 W
Current: 1.33 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 6/14/2019 to LM-63-2002 Standards.

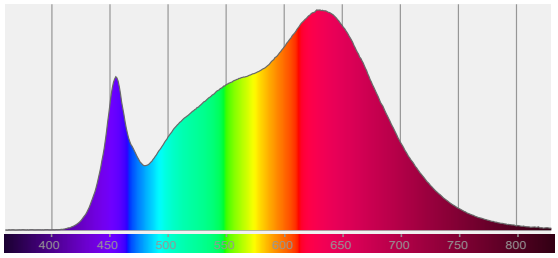
Overall Measurement

Angular Beam Distribution

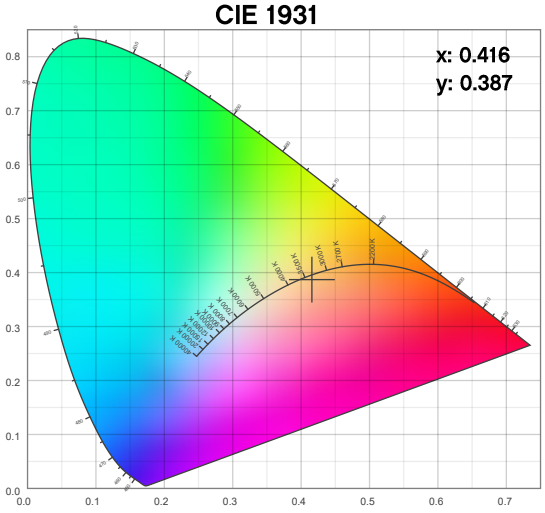


Beam Angle **49.4°**

Spectral Distribution



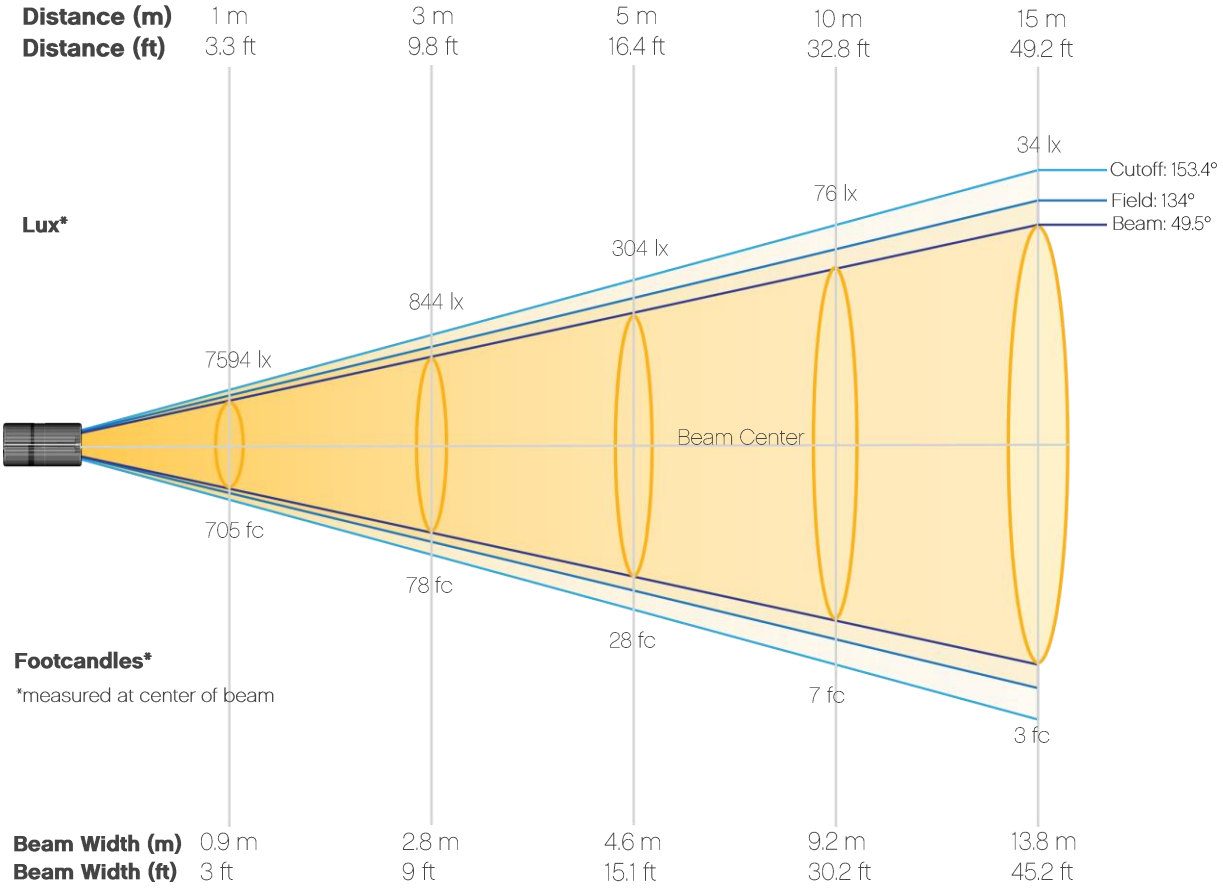
CIE 1931



Photometric Report

Ovation H-265WW: 80deg Filter, Full Power

Beam Details



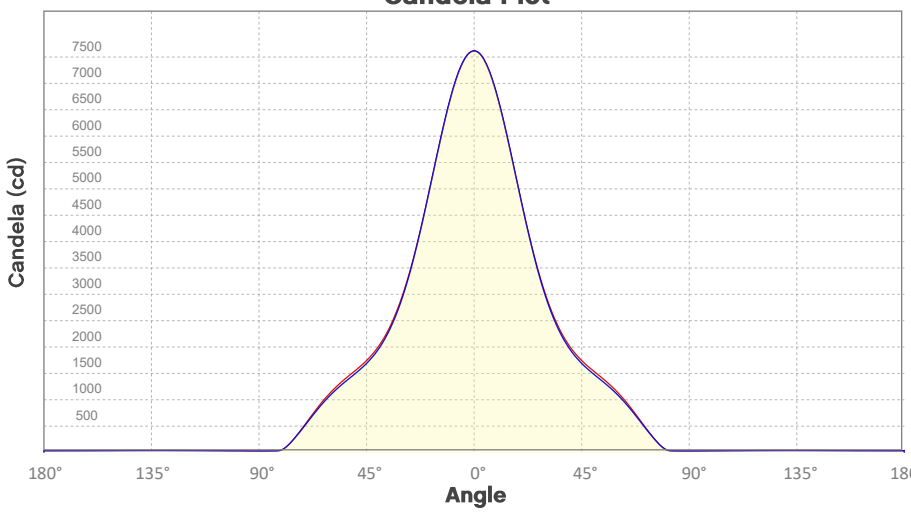
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	7594	1898	844	475	304	211	155	119	94	76
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	63	53	45	39	34	30	26	23	21	19
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	705	176	78	44	28	20	14	11	9	7
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	6	5	4	4	3	3	2	2	2	2

Photometric Report

Ovation H-265WW: 80deg Filter, Full Power

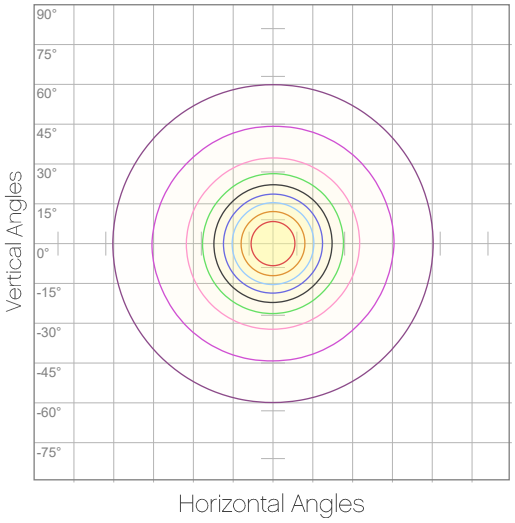
Candela Plot



Beam Angle (50%): 49.4°
Field Angle (10%): 133.4°
Cutoff Angle (3%): 153.4°

Horizontal Distribution
Vertical Distribution

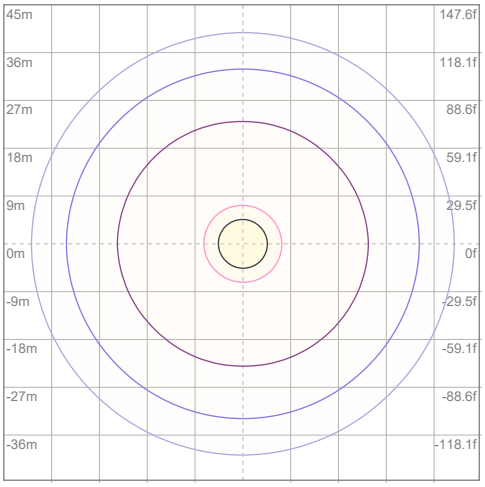
Polar Diagrams



iso-candela Diagram

10%	759 cd
20%	1519 cd
30%	2278 cd
40%	3037 cd
50%	3797 cd
60%	4556 cd
70%	5316 cd
80%	6075 cd
90%	6834 cd

Conditions:
Number of c-planes: 8
Candela at center: 7594 cd



iso-illuminance Diagram

3%	2.28 lx
5%	3.80 lx
10%	7.59 lx
30%	22.8 lx
50%	38.0 lx

Conditions:
Number of c-planes: 8
Lux at center: 75.9 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 H-265WW: 65deg Lens, Full Power

Report Summary

Output

Total Lumens: 11069 lm
Peak Intensity: 8926 cd
Illuminance @ 5m: 356 lux
Fixture Efficacy: 70 lm/W

Optical

Horizontal Beam Angle (50%): 70.7°
Vertical Beam Angle (50%): 67.3°
Horizontal Field Angle (10%): 98.8°
Vertical Field Angle (10%): 94.7°
Horizontal Cutoff Angle (3%): 114.1°
Vertical Cutoff Angle (3%): 110.2°

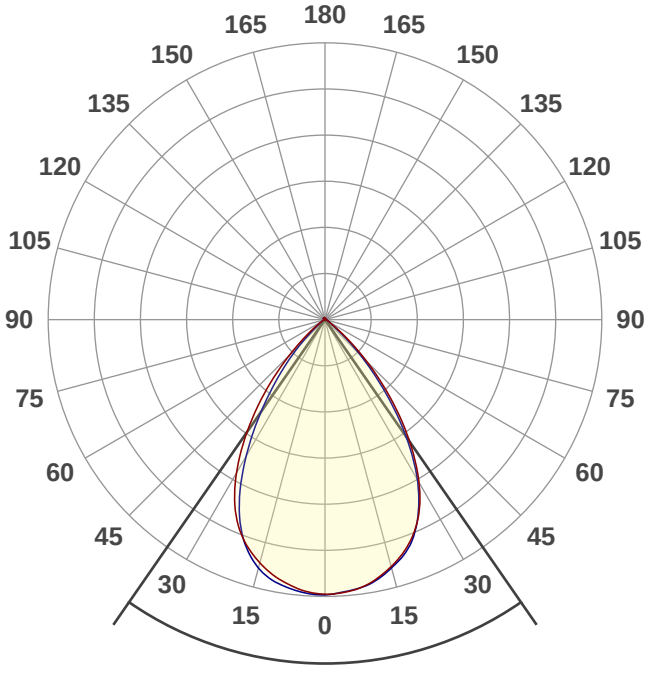
Conditions

AC Supply: 118 V, 60 Hz
Power: 158.7 W
Current: 1.34 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 6/14/2019 to LM-63-2002 Standards.

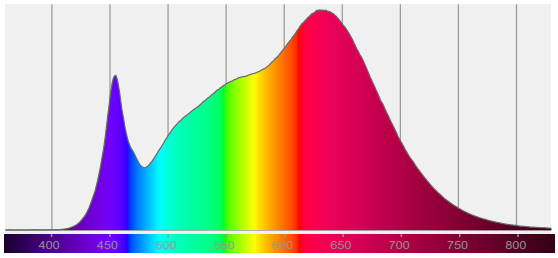
Overall Measurement

Angular Beam Distribution

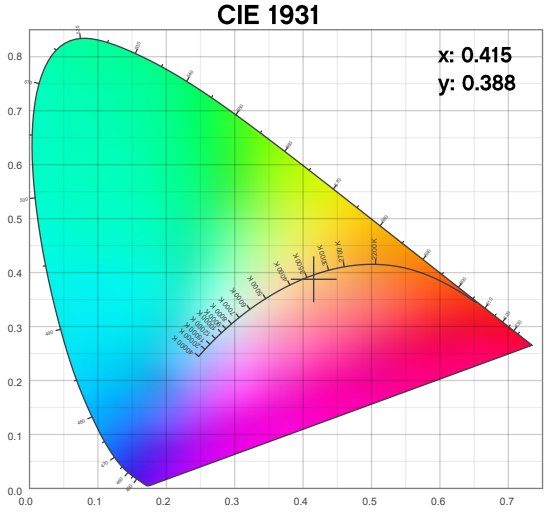


Beam Angle **69.5°**

Spectral Distribution



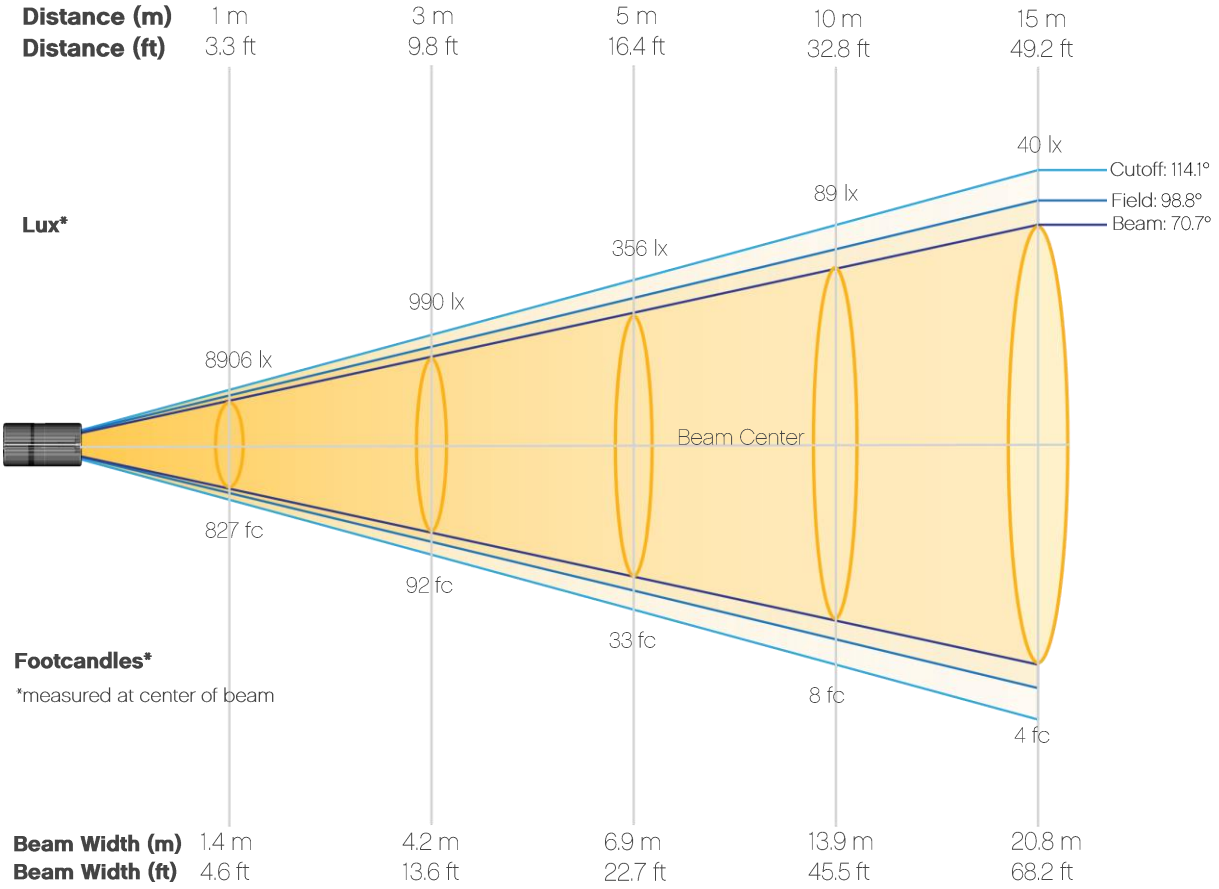
CIE 1931



Photometric Report

Ovation H-265WW: 65deg Lens, Full Power

Beam Details



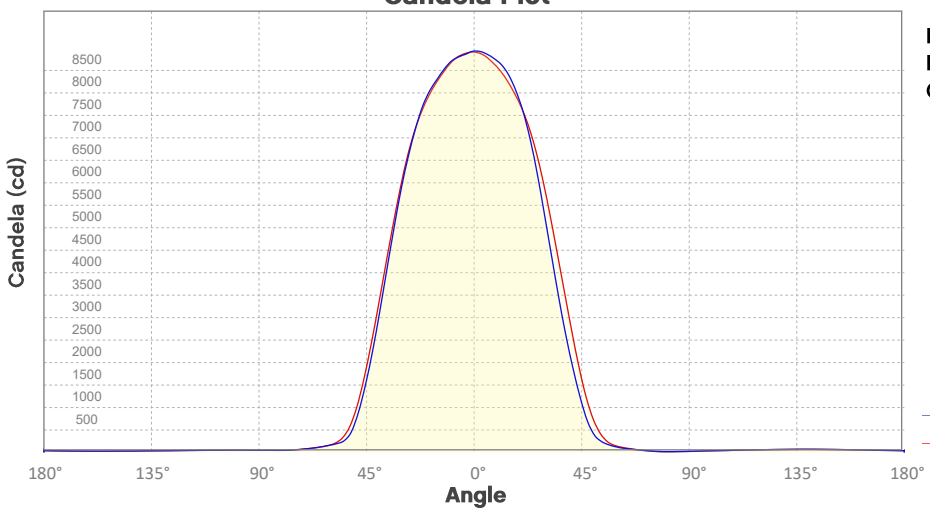
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	8906	2227	990	557	356	247	182	139	110	89
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	74	62	53	45	40	35	31	27	25	22
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	827	207	92	52	33	23	17	13	10	8
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	7	6	5	4	4	3	3	3	2	2

Photometric Report

Ovation H-265WW: 65deg Lens, Full Power

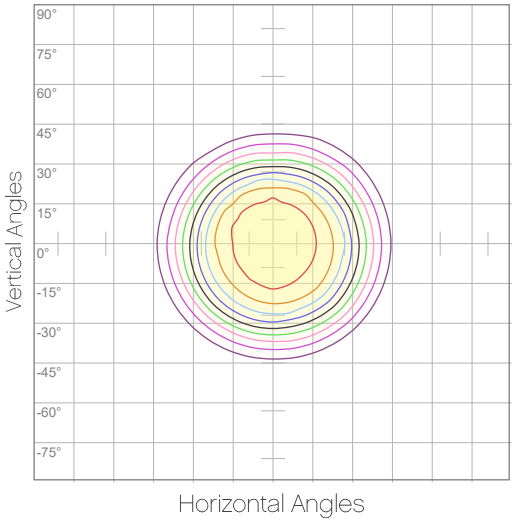
Candela Plot



Beam Angle (50%): 69.5°
Field Angle (10%): 97.2°
Cutoff Angle (3%): 112.8°

Horizontal Distribution
Vertical Distribution

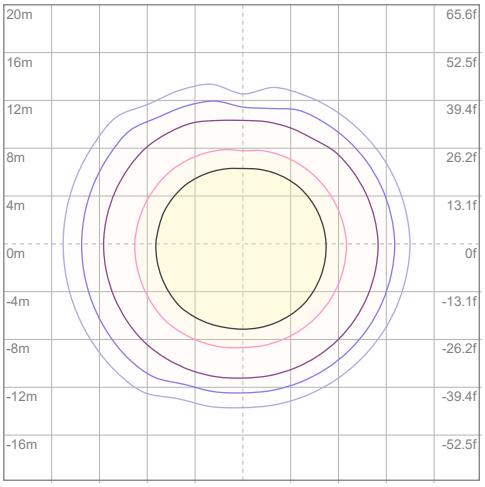
Polar Diagrams



iso-candela Diagram

10%	891 cd
20%	1781 cd
30%	2672 cd
40%	3562 cd
50%	4453 cd
60%	5344 cd
70%	6234 cd
80%	7125 cd
90%	8015 cd

Conditions:
Number of c-planes: 8
Candela at center: 8906 cd



iso-illuminance Diagram

3%	2.67 lx
5%	4.45 lx
10%	8.91 lx
30%	26.7 lx
50%	44.5 lx

Conditions:
Number of c-planes: 8
Lux at center: 89.1 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 H-265WW: 45deg Lens, Full Power

Report Summary

Output

Total Lumens: 10744 lm
Peak Intensity: 17918 cd
Illuminance @ 5m: 715 lux
Fixture Efficacy: 68 lm/W

Optical

Horizontal Beam Angle (50%): 35.5°
Vertical Beam Angle (50%): 35.7°
Horizontal Field Angle (10%): 78.2°
Vertical Field Angle (10%): 81.1°
Horizontal Cutoff Angle (3%): 116.9°
Vertical Cutoff Angle (3%): 117°

Conditions

AC Supply: 118 V, 60.1 Hz
Power: 159.04 W
Current: 1.35 A
Power Factor: 0.99

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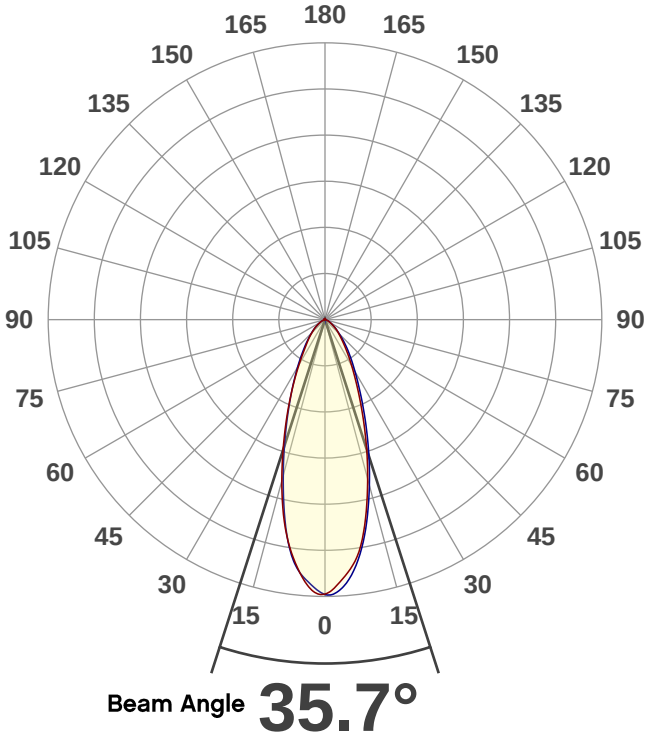
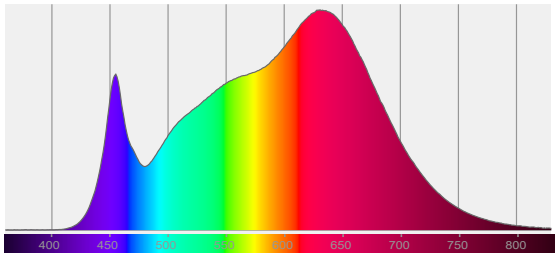
Overall Measurement

Angular Beam Distribution

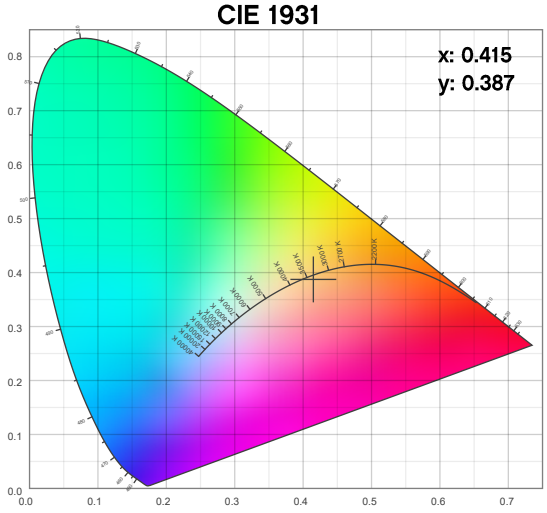


Beam Angle **35.7°**

Spectral Distribution



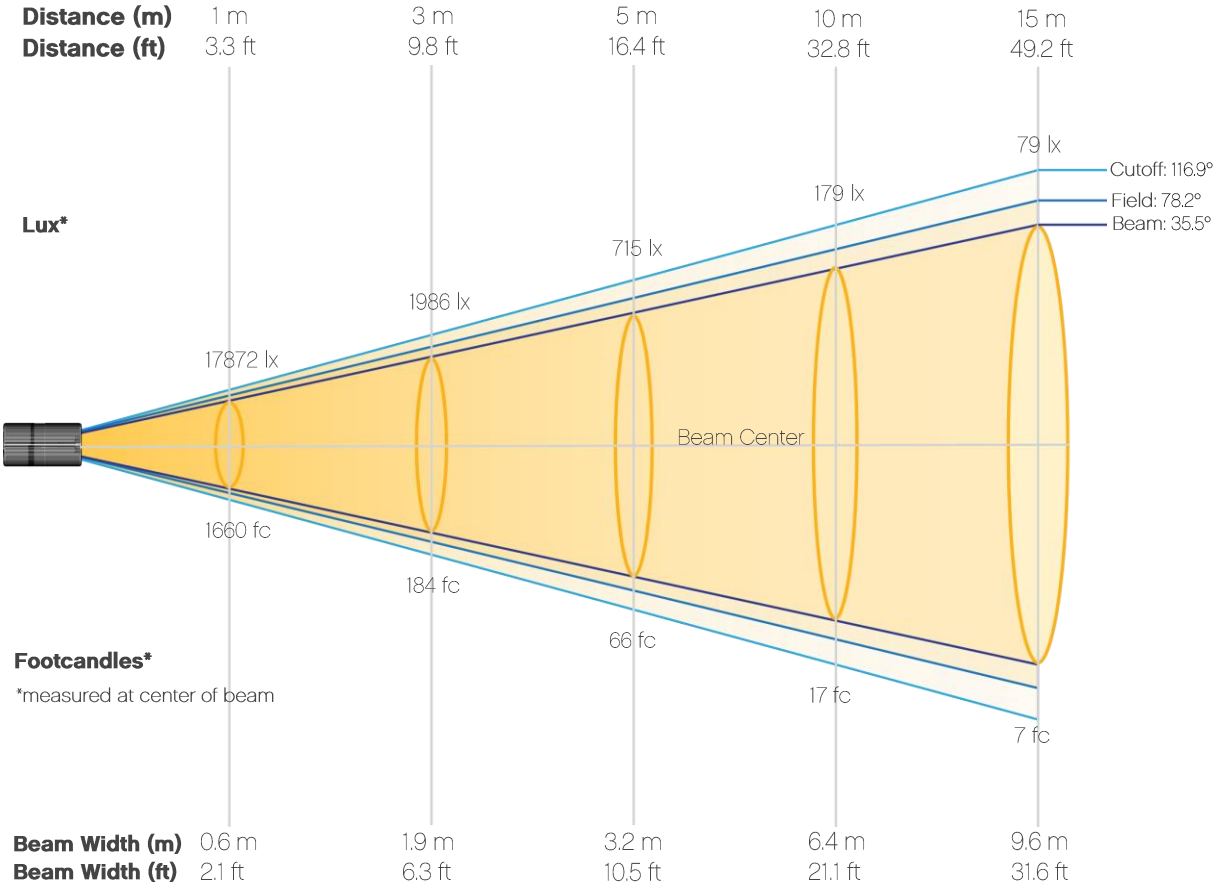
CIE 1931



Photometric Report

Ovation H-265WW: 45deg Lens, Full Power

Beam Details



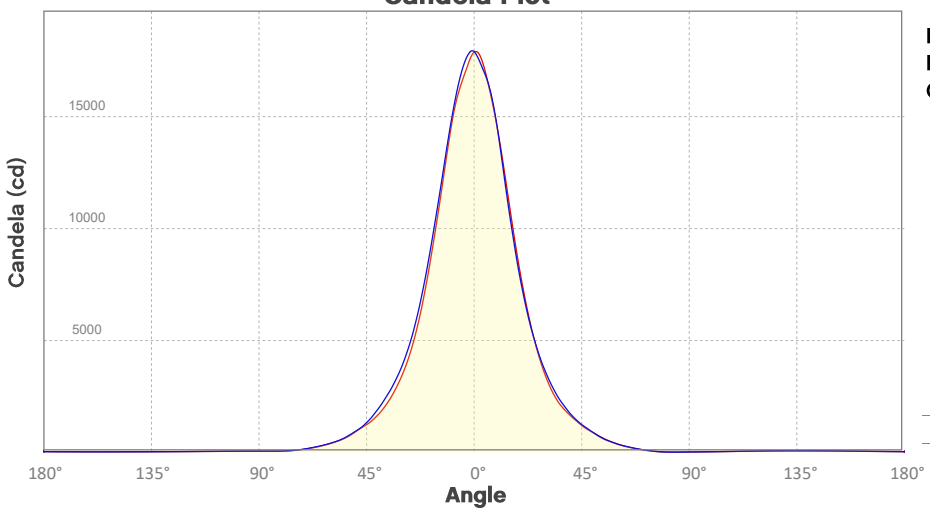
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	17872	4468	1986	1117	715	496	365	279	221	179
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	148	124	106	91	79	70	62	55	50	45
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1660	415	184	104	66	46	34	26	20	17
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	14	12	10	8	7	6	6	5	5	4

Photometric Report

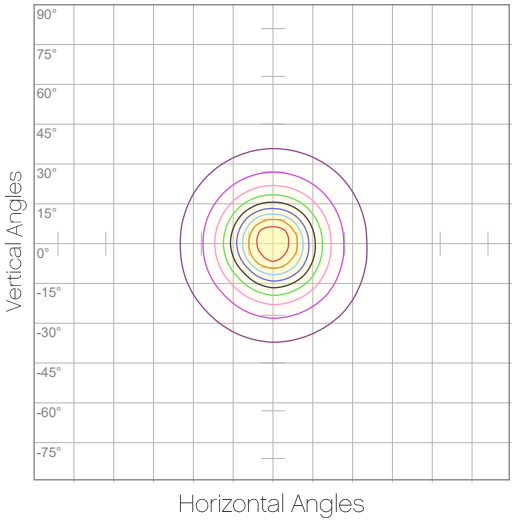
Ovation H-265WW: 45deg Lens, Full Power

Candela Plot



Beam Angle (50%): 35.7°
Field Angle (10%): 79.9°
Cutoff Angle (3%): 116.9°

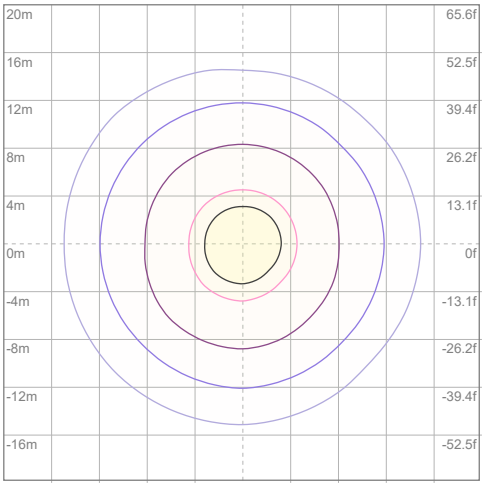
Polar Diagrams



iso-candela Diagram

10%	1787 cd
20%	3574 cd
30%	5362 cd
40%	7149 cd
50%	8936 cd
60%	10723 cd
70%	12510 cd
80%	14298 cd
90%	16085 cd

Conditions:
Number of c-planes: 8
Candela at center: 17872 cd



iso-illuminance Diagram

3%	5.36 lx
5%	8.94 lx
10%	17.9 lx
30%	53.6 lx
50%	89.4 lx

Conditions:
Number of c-planes: 8
Lux at center: 179 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 H-265WW: 25deg Lens, Full Power

Report Summary

Output

Total Lumens: 10730 lm
Peak Intensity: 45448 cd
Illuminance @ 5m: 1815 lux
Fixture Efficacy: 69 lm/W

Optical

Horizontal Beam Angle (50%): 21.7°
Vertical Beam Angle (50%): 21.3°
Horizontal Field Angle (10%): 40.8°
Vertical Field Angle (10%): 39.3°
Horizontal Cutoff Angle (3%): 87.2°
Vertical Cutoff Angle (3%): 84.2°

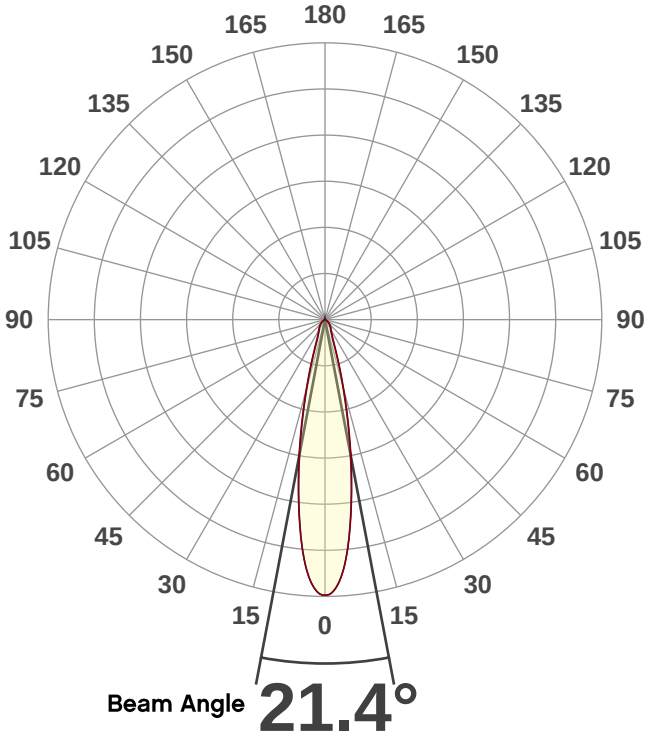
Conditions

AC Supply: 118 V, 60.1 Hz
Power: 156.95 W
Current: 1.33 A
Power Factor: 0.99

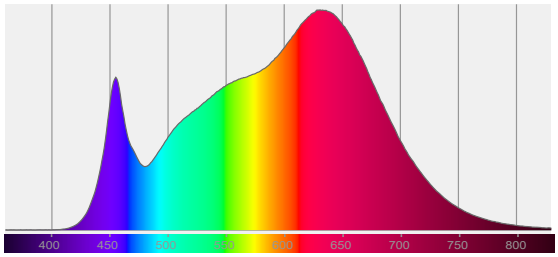
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/14/2019 to LM-63-2002 Standards.

Overall Measurement

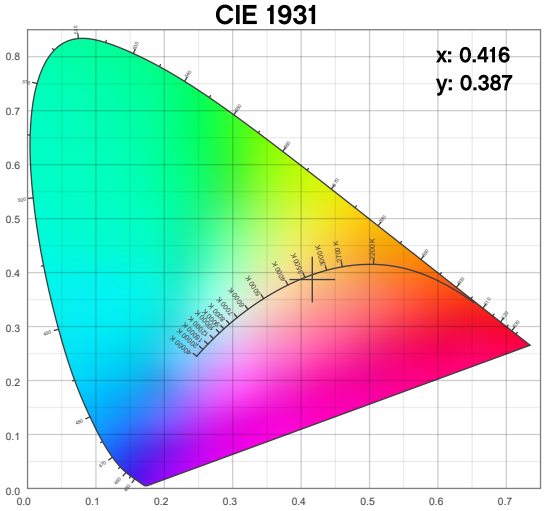
Angular Beam Distribution



Spectral Distribution



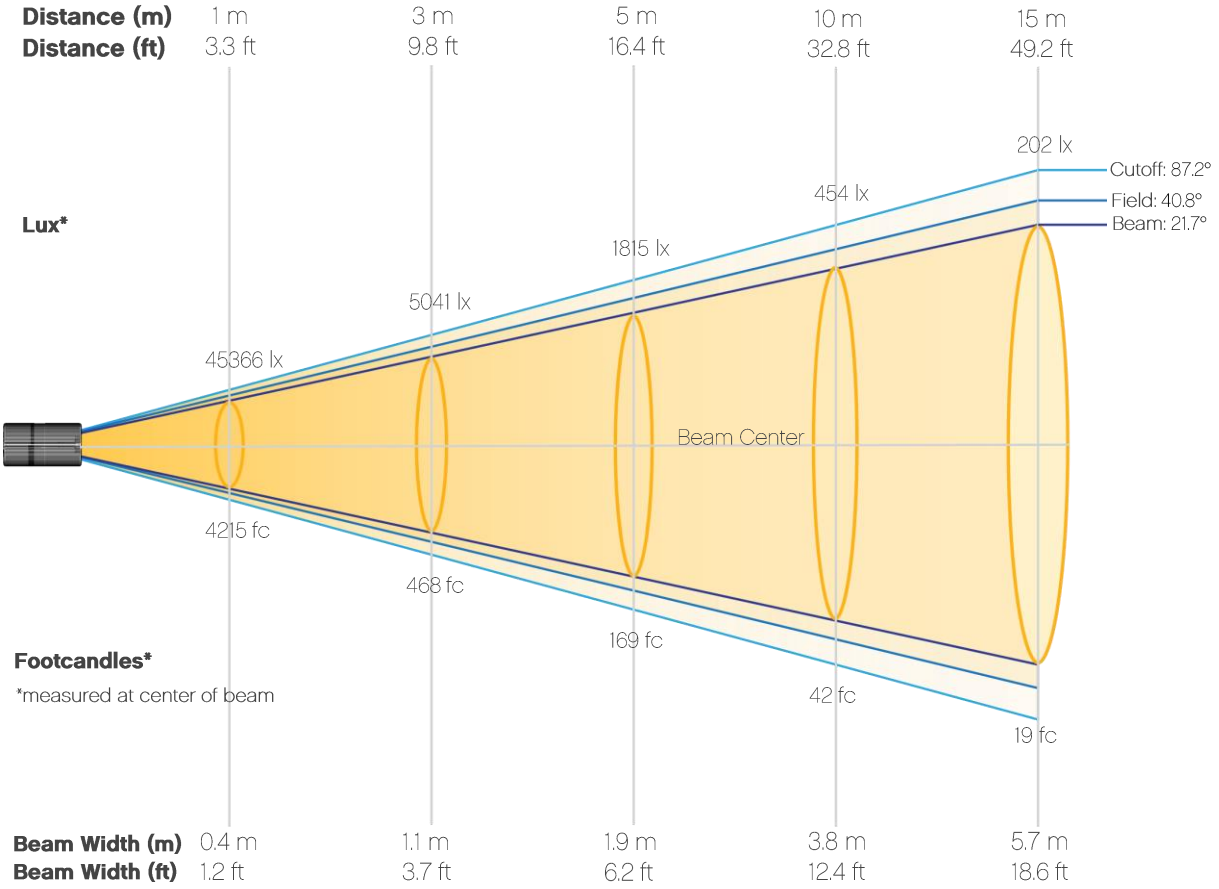
CIE 1931



Photometric Report

Ovation H-265WW: 25deg Lens, Full Power

Beam Details



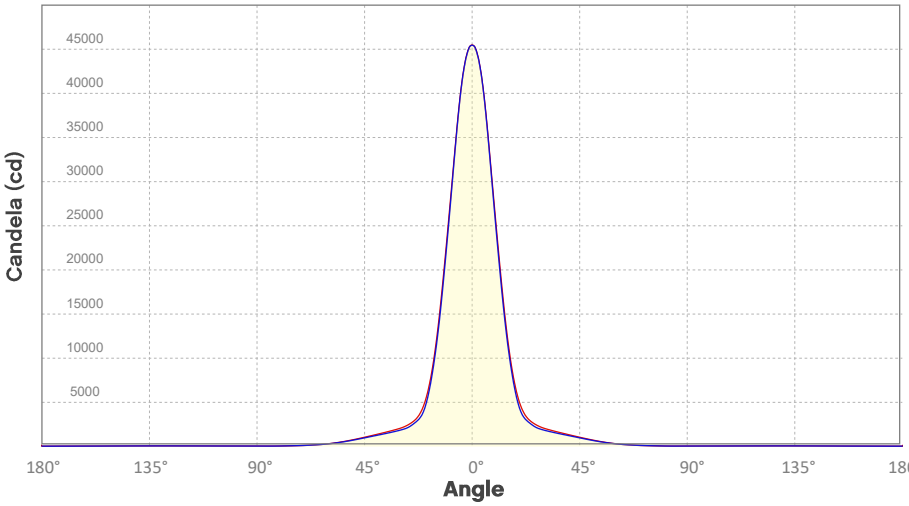
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	45366	11341	5041	2835	1815	1260	926	709	560	454
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	375	315	268	231	202	177	157	140	126	113
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	4215	1054	468	263	169	117	86	66	52	42
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	35	29	25	22	19	16	15	13	12	11

Photometric Report

Ovation H-265WW: 25deg Lens, Full Power

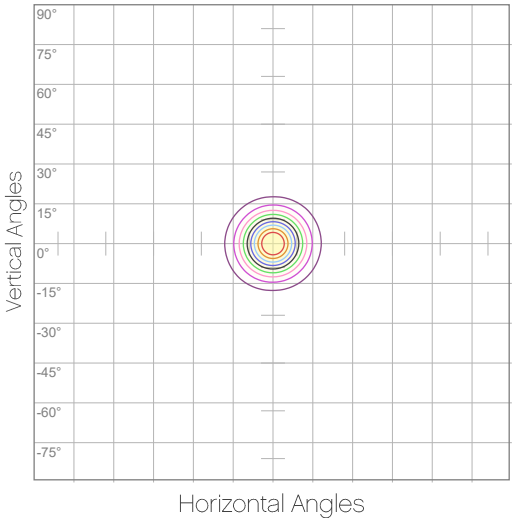
Candela Plot



Beam Angle (50%): 21.4°
Field Angle (10%): 40.2°
Cutoff Angle (3%): 85.7°

Horizontal Distribution
Vertical Distribution

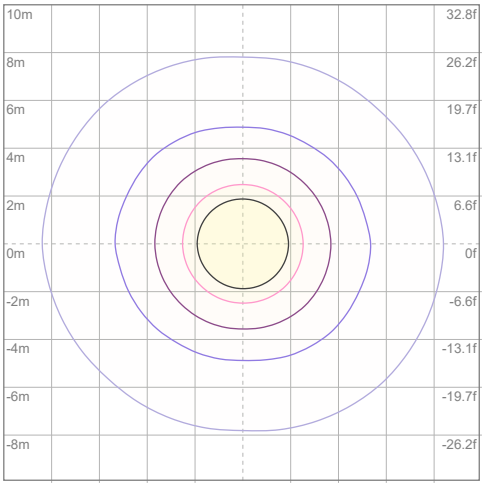
Polar Diagrams



iso-candela Diagram

10%	4537 cd
20%	9073 cd
30%	13610 cd
40%	18146 cd
50%	22683 cd
60%	27220 cd
70%	31756 cd
80%	36293 cd
90%	40829 cd

Conditions:
Number of c-planes: 8
Candela at center: 45366 cd



iso-illuminance Diagram

3%	13.6 lx
5%	22.7 lx
10%	45.4 lx
30%	136 lx
50%	227 lx

Conditions:
Number of c-planes: 8
Lux at center: 454 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 H-265WW: Full Power

Report Summary

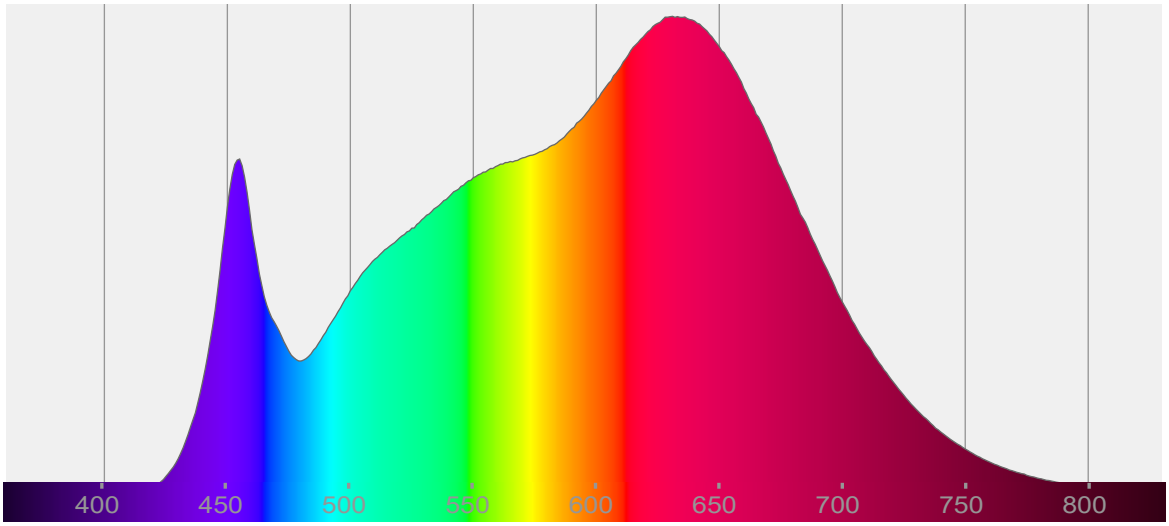
Measurements

Total Lumens: 11069 lm
Peak Intensity: 8926 cd
Fixture Efficacy: 70 lm/W

Correlated Color Temperature: 3263K
Δuv: -0.0034

CRI: 98.0 CRI R9 Value: 97.7
CQS: 94.8
TLCI: 98
TM-30-18 Rf: 94.2
TM-30-18 Rg: 102.1
1st Dominant Wavelength: 631 nM
2nd Dominant Wavelength: 455 nM

Spectral Distribution



Tested Color

3263 K
CIE 1931 Coordinates:
X: 0.415 Y: 0.388

Color Temperature

3263 K

Light Quality

CRI: 98.0

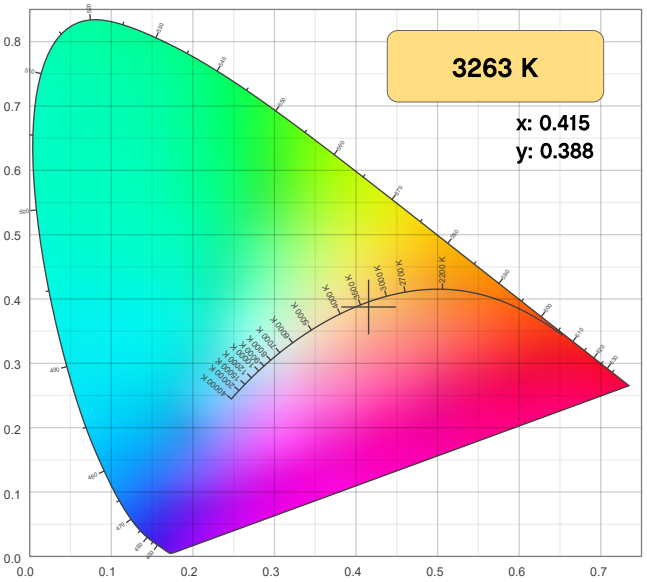
Notes:

Chromaticity Report

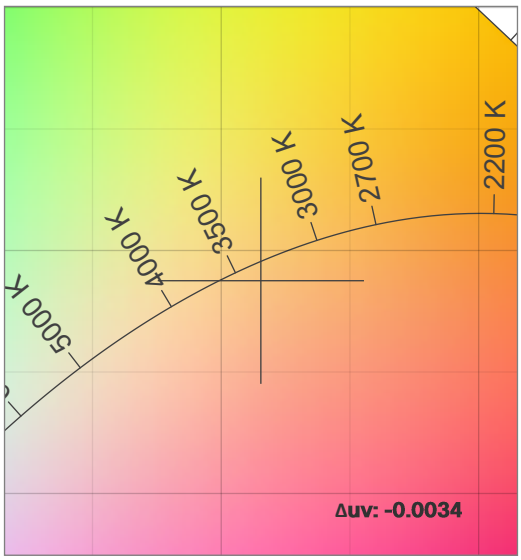
Ovation H-265WW: Full Power

Chromaticity

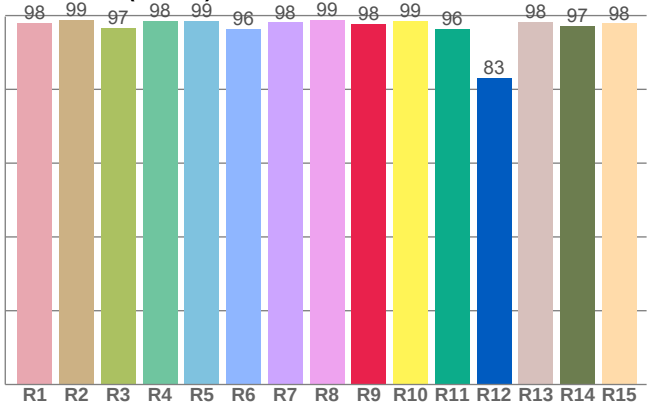
CIE 1931



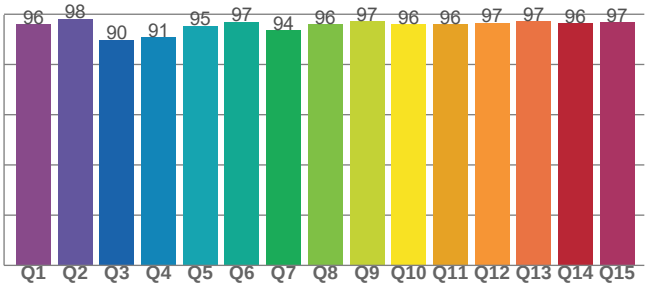
CIE 1931 - Zoom



CRI: 98.0 (R1-R8)



CQS: 94.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3263 K	0.415	0.388

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0034	0.388	0.244

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
98.0	97.7	94.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
98	94.2	102.1

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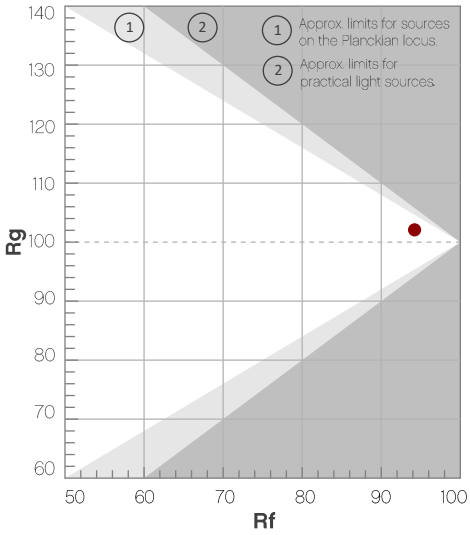
TM-30-18 Details

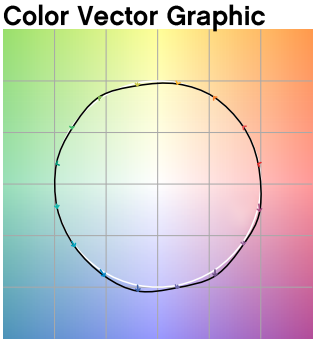
Rf 94.2
Fidelity Index (Rg)

Rg 102.1
Gamut Index (Rg)

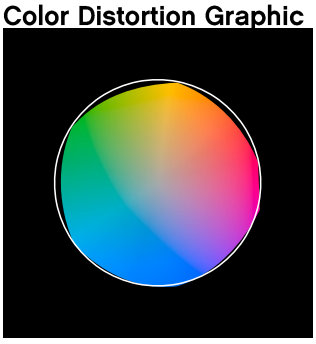
Hue Bin	R_f	Chroma Shift	Hue Shift
1	96	-1%	0%
2	98	0%	0%
3	95	0%	2%
4	96	-1%	0%
5	94	-3%	1%
6	97	2%	1%
7	94	-1%	1%
8	98	0%	0%
9	95	0%	4%
10	91	1%	5%
11	90	3%	7%
12	92	6%	2%
13	96	2%	-2%
14	93	5%	-3%
15	93	2%	-3%
16	91	2%	-6%



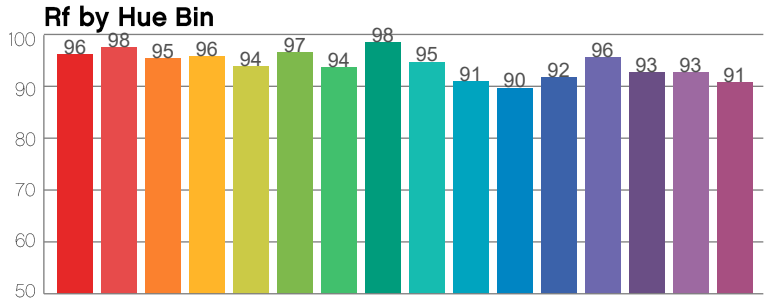
Color Vector Graphic



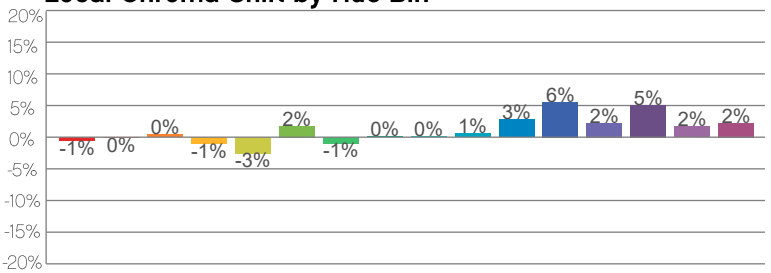
Color Distortion Graphic



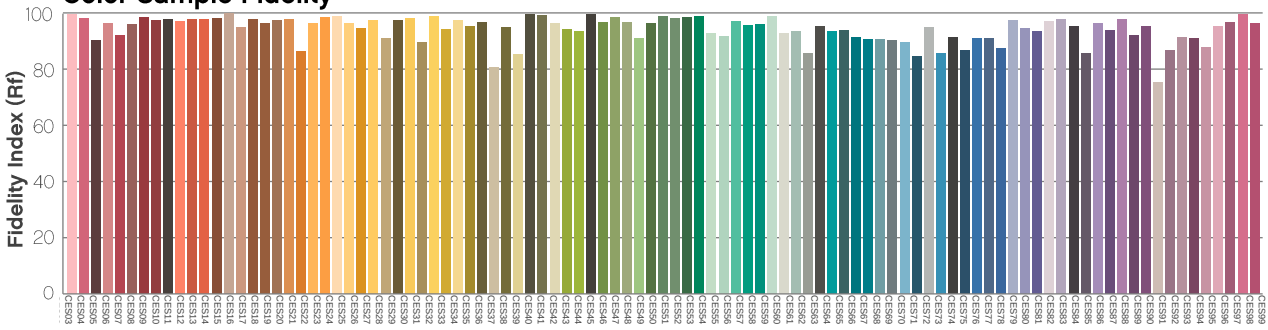
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



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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.