PHOTOMETRICS REPORT

OVATION
E-930VW

*LENS TUBE SOLD SEPARATELY

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 E-930VW: 50deg Lens, Full Power

Report Summary

Output

Total Lumens: 6494 lm
Peak Intensity: 13294 cd
Illuminance @ 5m: 531 lux
Fixture Efficacy: 23 lm/W

Optical

Horizontal Beam Angle (50%): 46.9°
Vertical Beam Angle (50%): 46.9°
Horizontal Field Angle (10%): 54.5°
Vertical Field Angle (10%): 54.6°
Horizontal Cutoff Angle (3%): 55.6°
Vertical Cutoff Angle (3%): 56.3°

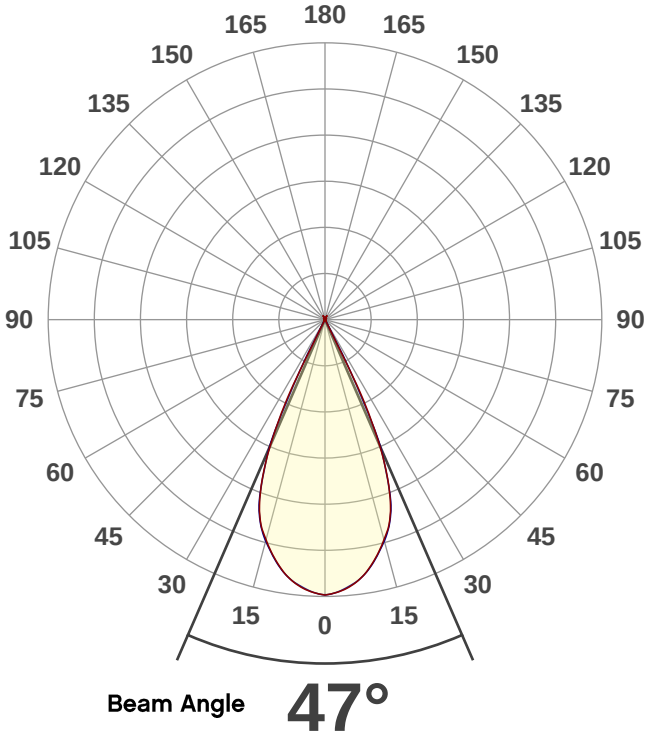
Conditions

AC Supply: 121 V, 60 Hz
Power: 279.98 W
Current: 2.32 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 10/10/2019 to LM-63-2002 Standards.

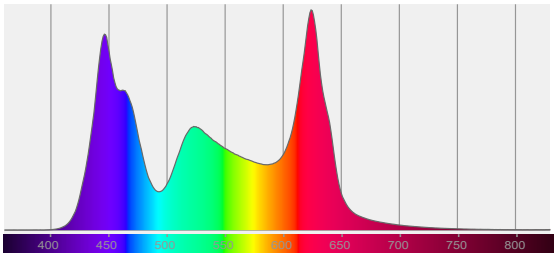
Overall Measurement

Angular Beam Distribution

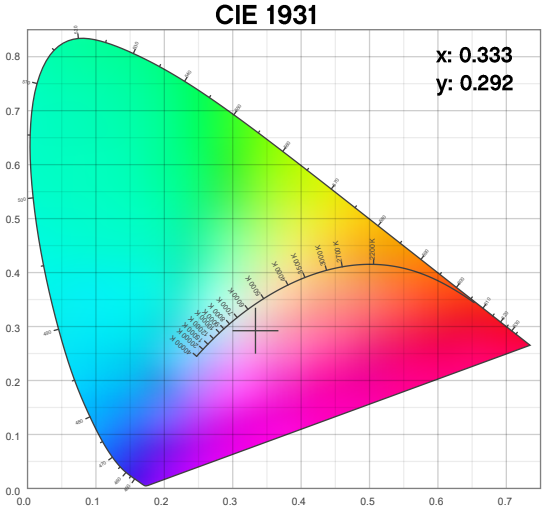


Beam Angle 47°

Spectral Distribution



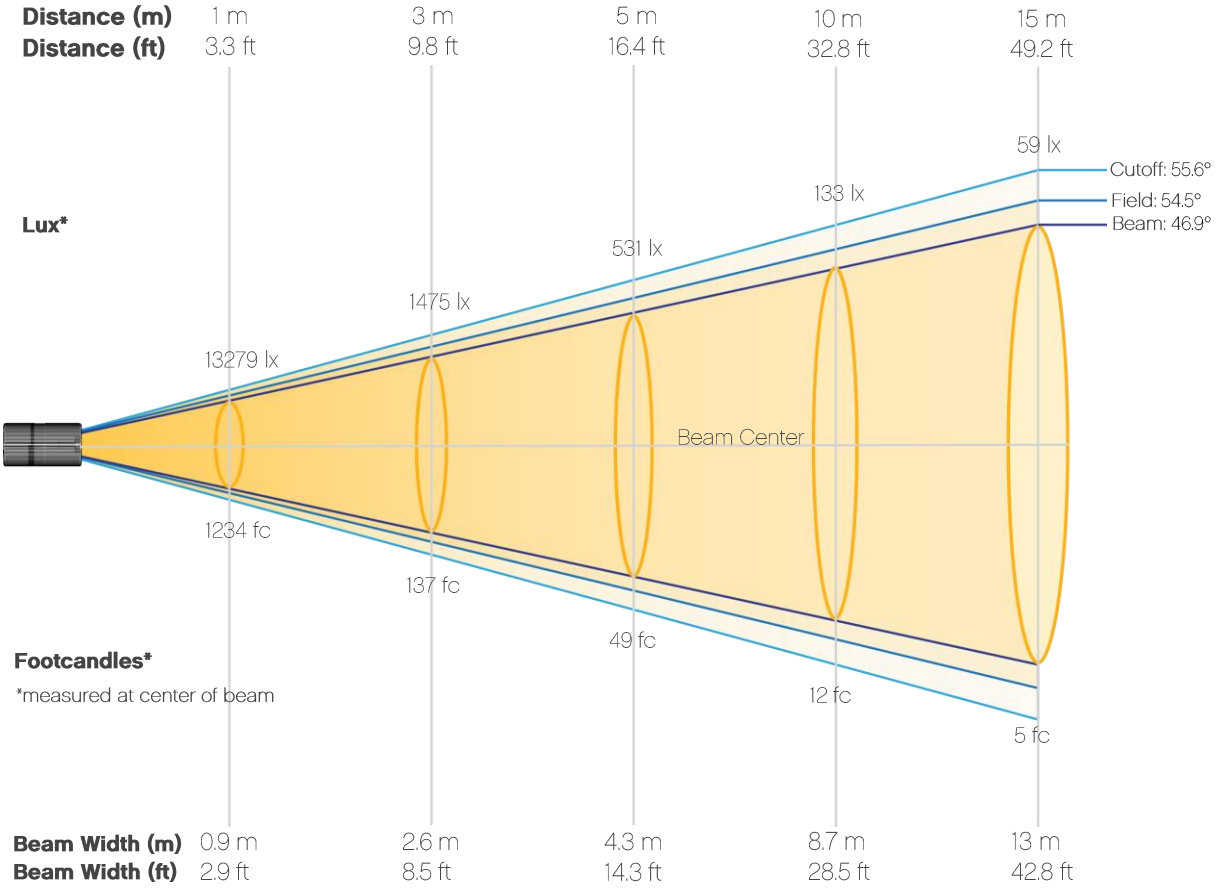
CIE 1931



Photometric Report

Ovation E-930VW: 50deg Lens, Full Power

Beam Details



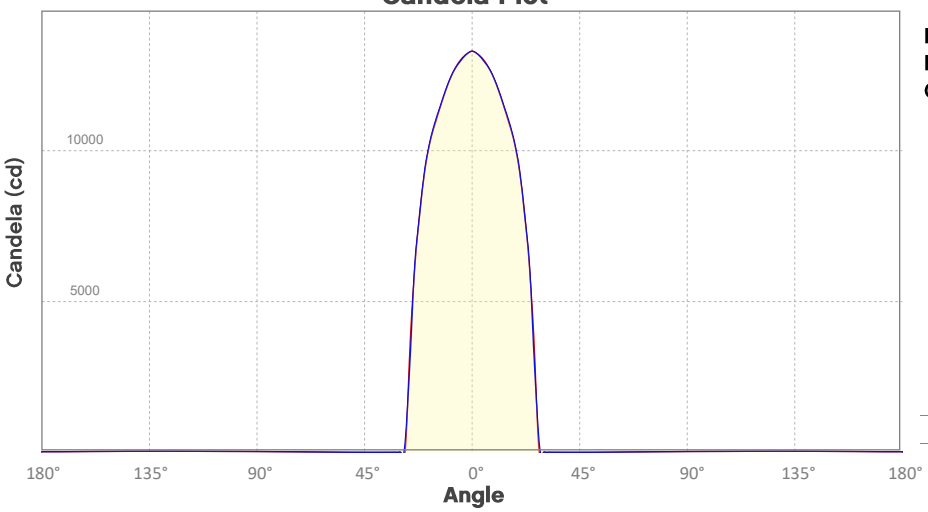
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	13279	3320	1475	830	531	369	271	207	164	133
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	110	92	79	68	59	52	46	41	37	33
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1234	308	137	77	49	34	25	19	15	12
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	10	9	7	6	5	5	4	4	3	3

Photometric Report

Ovation E-930VW: 50deg Lens, Full Power

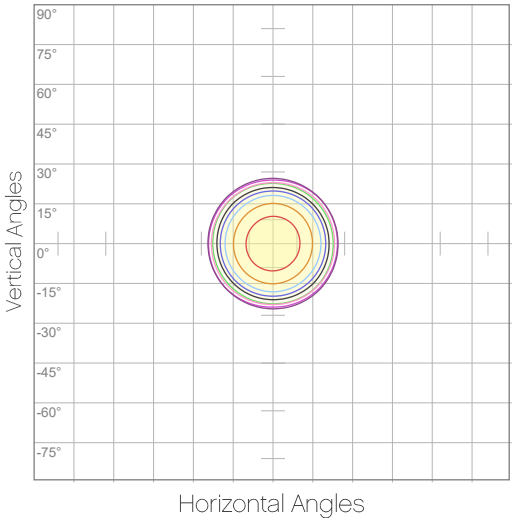
Candela Plot



Beam Angle (50%): 47°
Field Angle (10%): 54.6°
Cutoff Angle (3%): 56.3°

Horizontal Distribution
Vertical Distribution

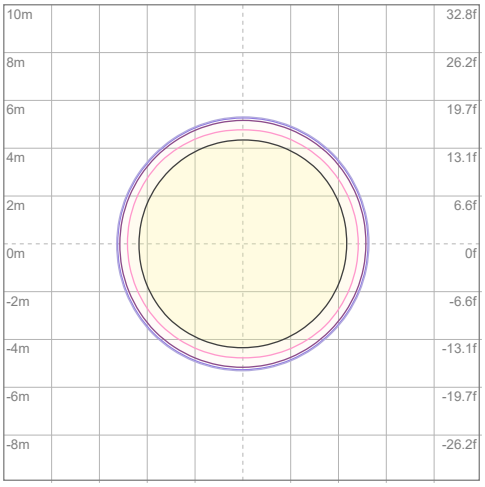
Polar Diagrams



iso-candela Diagram

10%	1328 cd
20%	2656 cd
30%	3984 cd
40%	5312 cd
50%	6640 cd
60%	7968 cd
70%	9296 cd
80%	10624 cd
90%	11951 cd

Conditions:
Number of c-planes: 8
Candela at center: 13279 cd



iso-illuminance Diagram

3%	3.98 lx
5%	6.64 lx
10%	13.3 lx
30%	39.8 lx
50%	66.4 lx

Conditions:
Number of c-planes: 8
Lux at center: 133 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 E-930VW: 36deg Lens, Full Power

Report Summary

Output

Total Lumens: 7040 lm
Peak Intensity: 31502 cd
Illuminance @ 5m: 1259 lux
Fixture Efficacy: 25 lm/W

Optical

Horizontal Beam Angle (50%): 31.9°
Vertical Beam Angle (50%): 31.9°
Horizontal Field Angle (10%): 36.5°
Vertical Field Angle (10%): 36.3°
Horizontal Cutoff Angle (3%): 38.6°
Vertical Cutoff Angle (3%): 38.4°

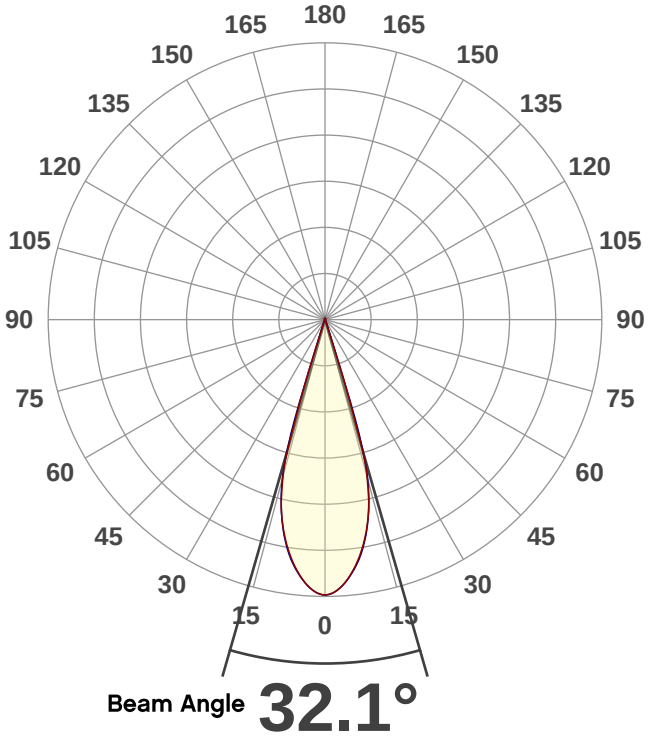
Conditions

AC Supply: 120 V, 60.1 Hz
Power: 282.72 W
Current: 2.35 A
Power Factor: 0.99

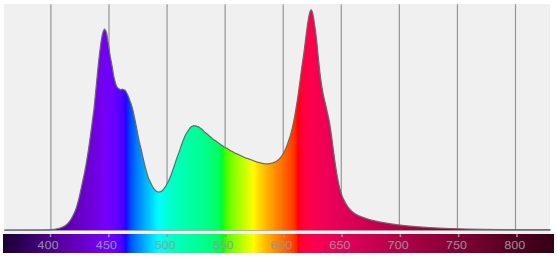
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/10/2019 to LM-63-2002 Standards.

Overall Measurement

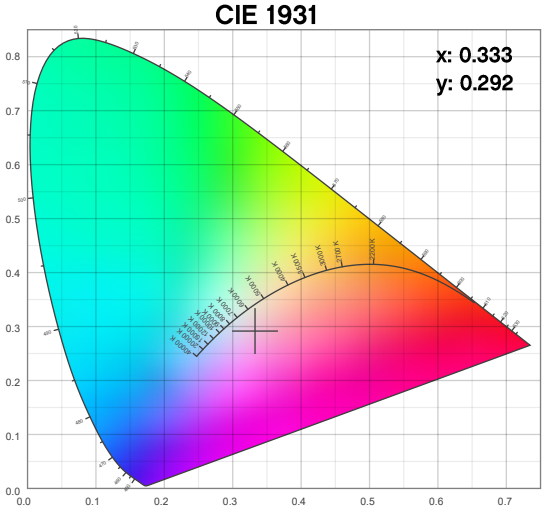
Angular Beam Distribution



Spectral Distribution



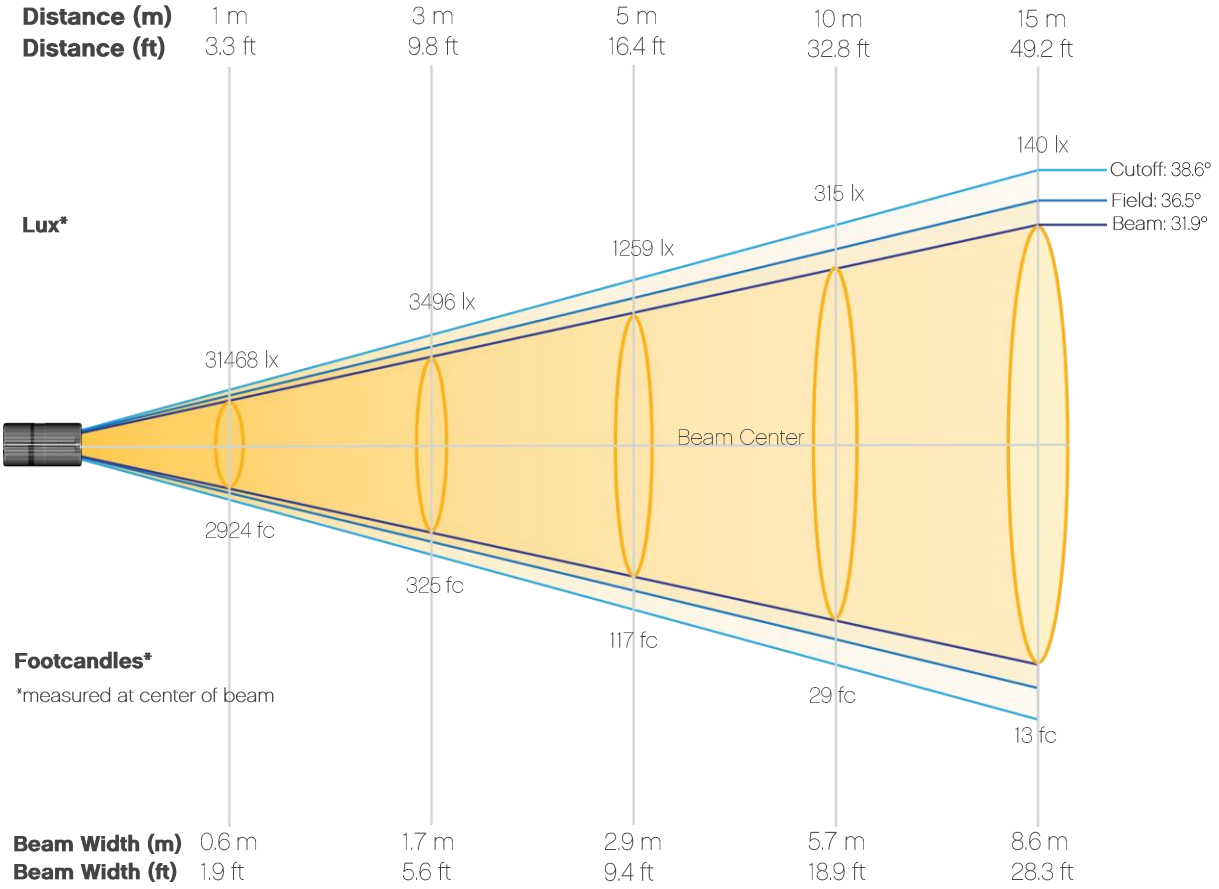
CIE 1931



Photometric Report

Ovation E-930VW: 36deg 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	31468	7867	3496	1967	1259	874	642	492	388	315
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	260	219	186	161	140	123	109	97	87	79
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2924	731	325	183	117	81	60	46	36	29
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	24	20	17	15	13	11	10	9	8	7

Photometric Report

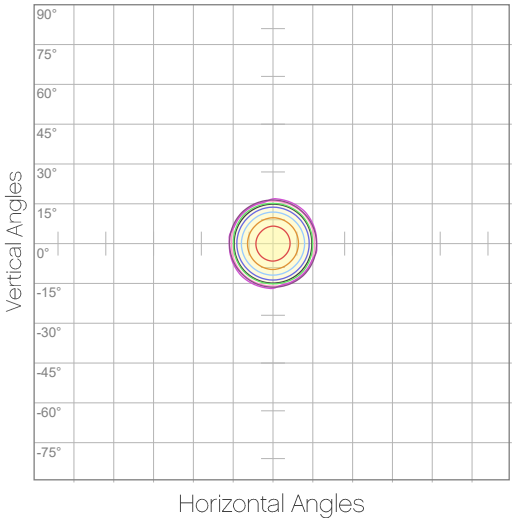
Ovation E-930VW: 36deg Lens, Full Power

Candela Plot

Beam Angle (50%): 32.1°
Field Angle (10%): 36.5°
Cutoff Angle (3%): 38.3°

Horizontal Distribution
Vertical Distribution

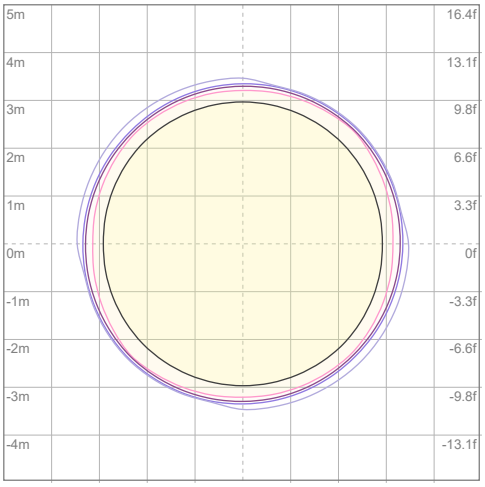
Polar Diagrams



iso-candela Diagram

10%	3147 cd
20%	6294 cd
30%	9441 cd
40%	12587 cd
50%	15734 cd
60%	18881 cd
70%	22028 cd
80%	25175 cd
90%	28322 cd

Conditions:
Number of c-planes: 8
Candela at center: 31468 cd



iso-illuminance Diagram

3%	9.44 lx
5%	15.7 lx
10%	31.5 lx
30%	94.4 lx
50%	157 lx

Conditions:
Number of c-planes: 8
Lux at center: 315 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 E-930VW: 26deg Lens, Full Power

Report Summary

Output

Total Lumens: 6977 lm
Peak Intensity: 50494 cd
Illuminance @ 5m: 2017 lux
Fixture Efficacy: 25 lm/W

Optical

Horizontal Beam Angle (50%): 25.3°
Vertical Beam Angle (50%): 25.4°
Horizontal Field Angle (10%): 28.2°
Vertical Field Angle (10%): 28.4°
Horizontal Cutoff Angle (3%): 29°
Vertical Cutoff Angle (3%): 29.3°

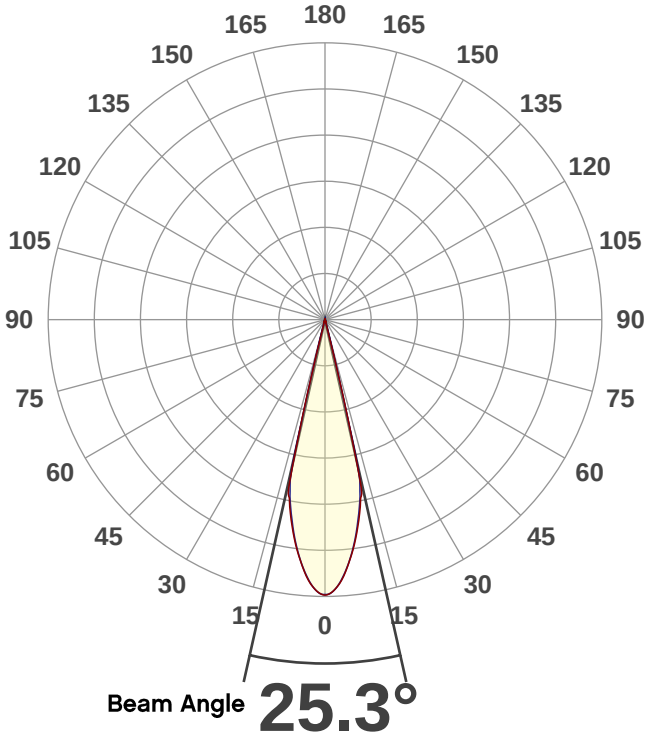
Conditions

AC Supply: 118 V, 60 Hz
Power: 284.69 W
Current: 2.41 A
Power Factor: 0.99

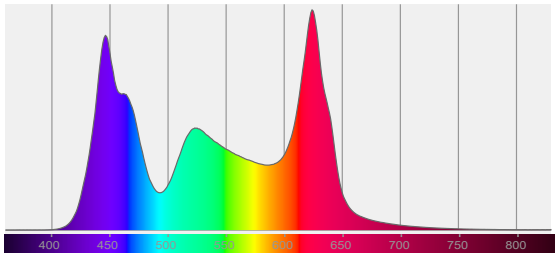
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/9/2019 to LM-63-2002 Standards.

Overall Measurement

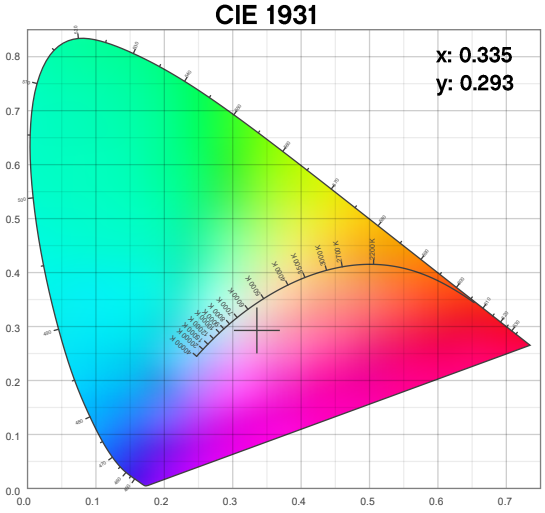
Angular Beam Distribution



Spectral Distribution



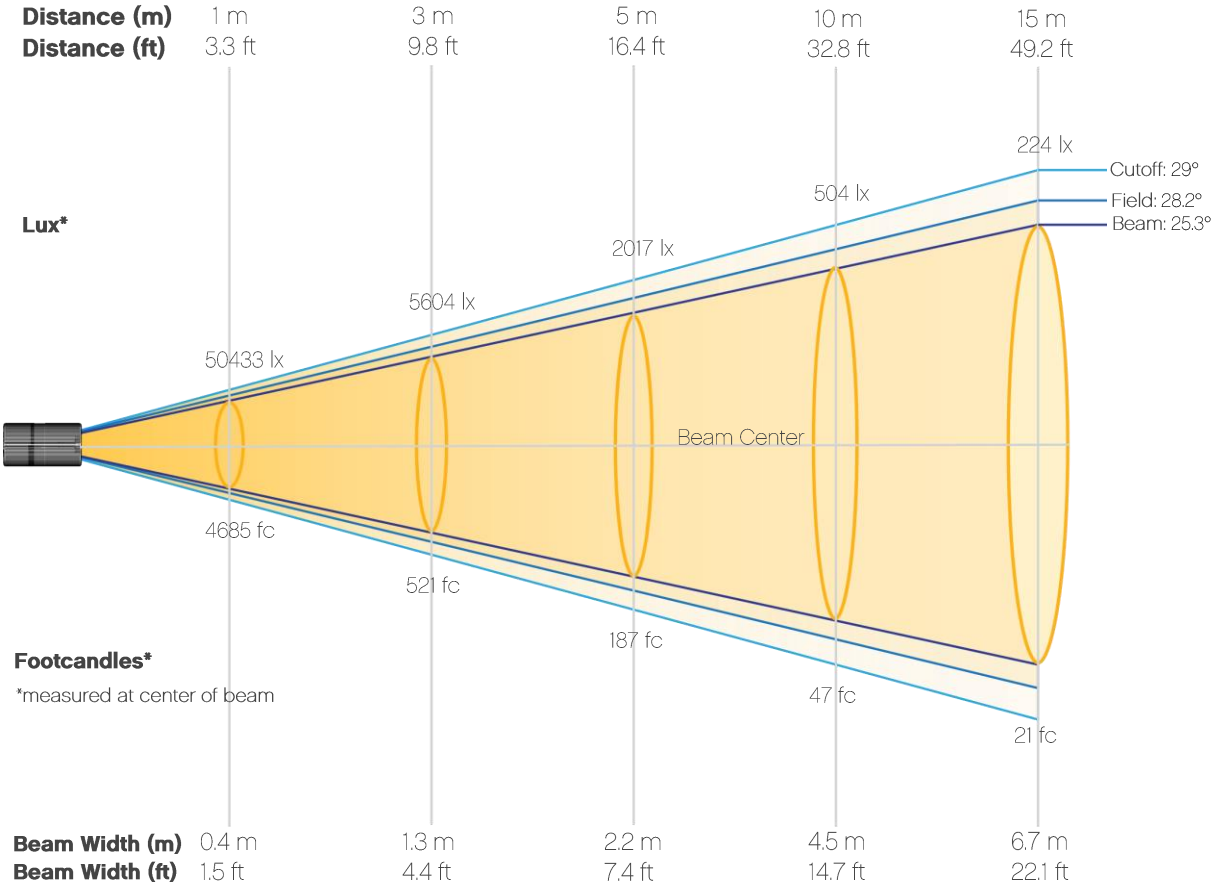
CIE 1931



Photometric Report

Ovation E-930VW: 26deg Lens, Full Power

Beam Details



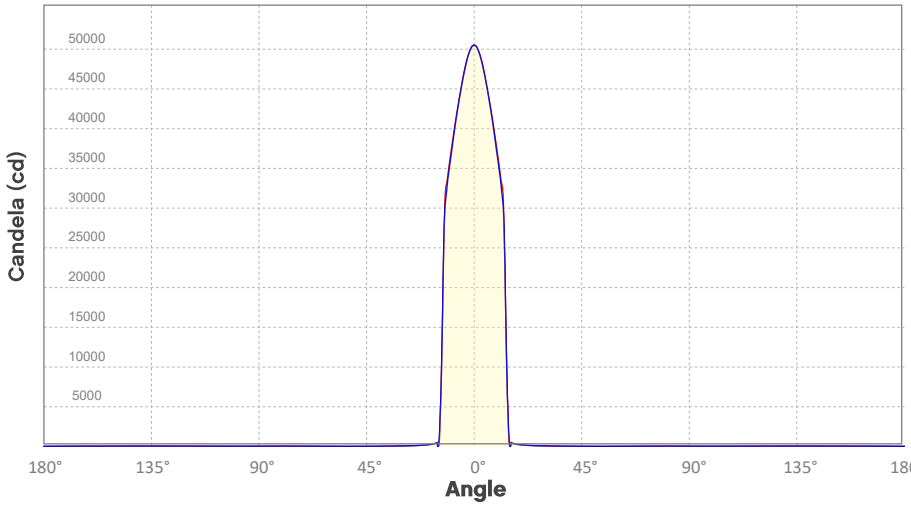
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	50433	12608	5604	3152	2017	1401	1029	788	623	504
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	417	350	298	257	224	197	175	156	140	126
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	4685	1171	521	293	187	130	96	73	58	47
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	39	33	28	24	21	18	16	14	13	12

Photometric Report

Ovation E-930VW: 26deg Lens, Full Power

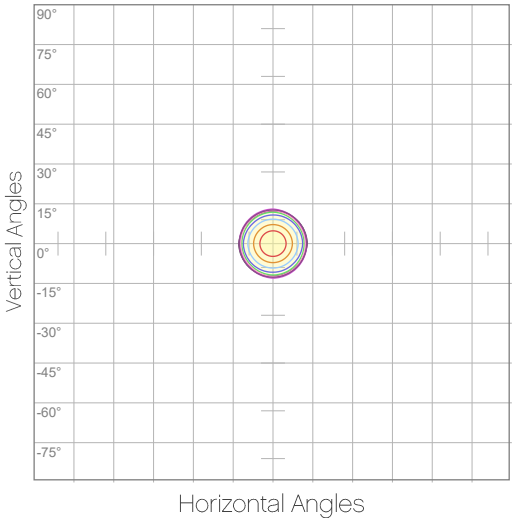
Candela Plot



Beam Angle (50%): 25.3°
Field Angle (10%): 28.2°
Cutoff Angle (3%): 29.1°

Horizontal Distribution
Vertical Distribution

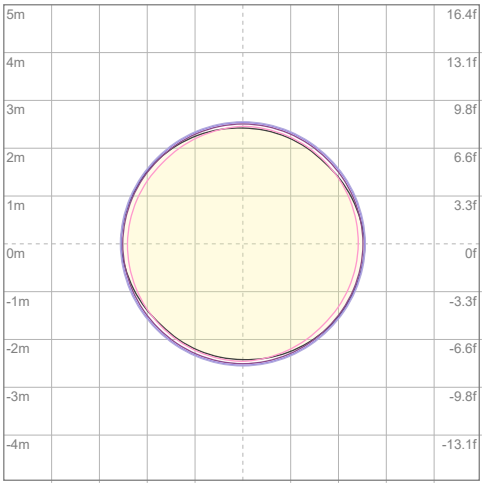
Polar Diagrams



iso-candela Diagram

10%	5043 cd
20%	10087 cd
30%	15130 cd
40%	20173 cd
50%	25217 cd
60%	30260 cd
70%	35303 cd
80%	40347 cd
90%	45390 cd

Conditions:
Number of c-planes: 8
Candela at center: 50433 cd



iso-illuminance Diagram

3%	15.1 lx
5%	25.2 lx
10%	50.4 lx
30%	151 lx
50%	252 lx

Conditions:
Number of c-planes: 8
Lux at center: 504 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 E-930VW: 19deg Lens, Full Power

Report Summary

Output

Total Lumens: 6740 lm
Peak Intensity: 82021 cd
Illuminance @ 5m: 3275 lux
Fixture Efficacy: 24 lm/W

Optical

Horizontal Beam Angle (50%): 18.9°
Vertical Beam Angle (50%): 19.3°
Horizontal Field Angle (10%): 21.3°
Vertical Field Angle (10%): 20.7°
Horizontal Cutoff Angle (3%): 21.9°
Vertical Cutoff Angle (3%): 21.8°

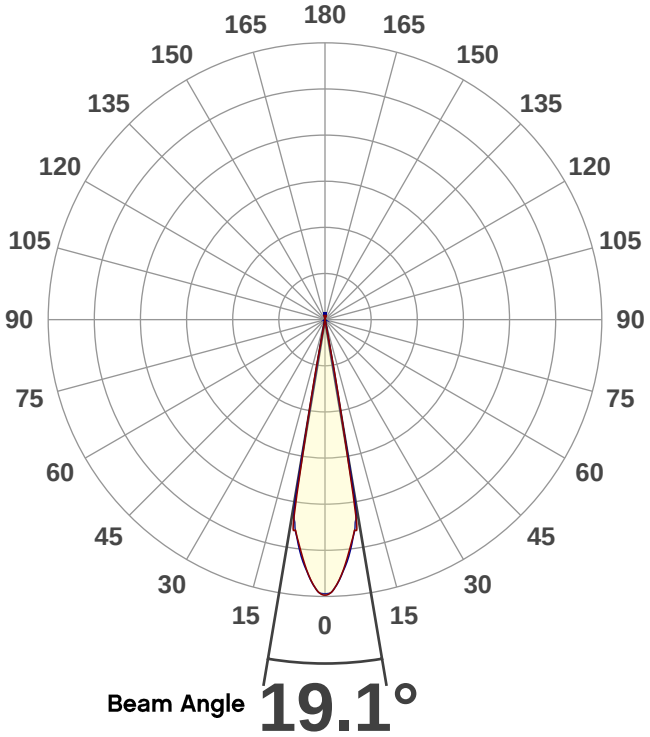
Conditions

AC Supply: 119 V, 60 Hz
Power: 283.88 W
Current: 2.38 A
Power Factor: 0.99

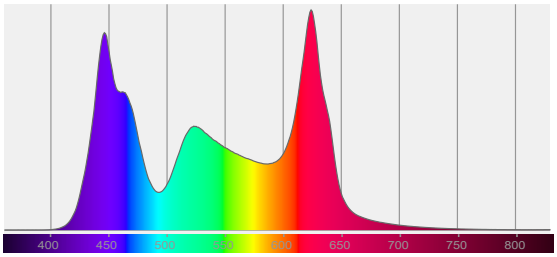
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/10/2019 to LM-63-2002 Standards.

Overall Measurement

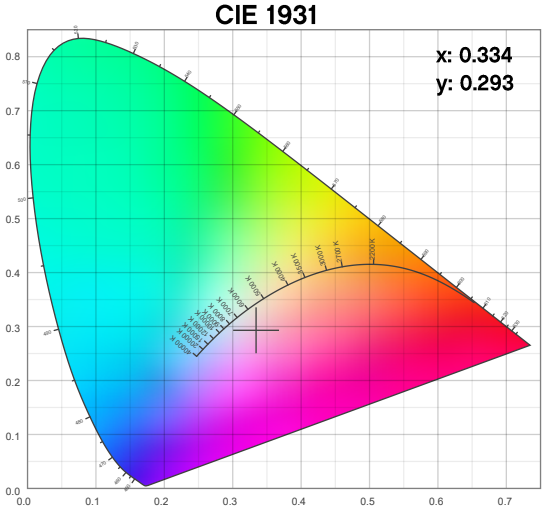
Angular Beam Distribution



Spectral Distribution



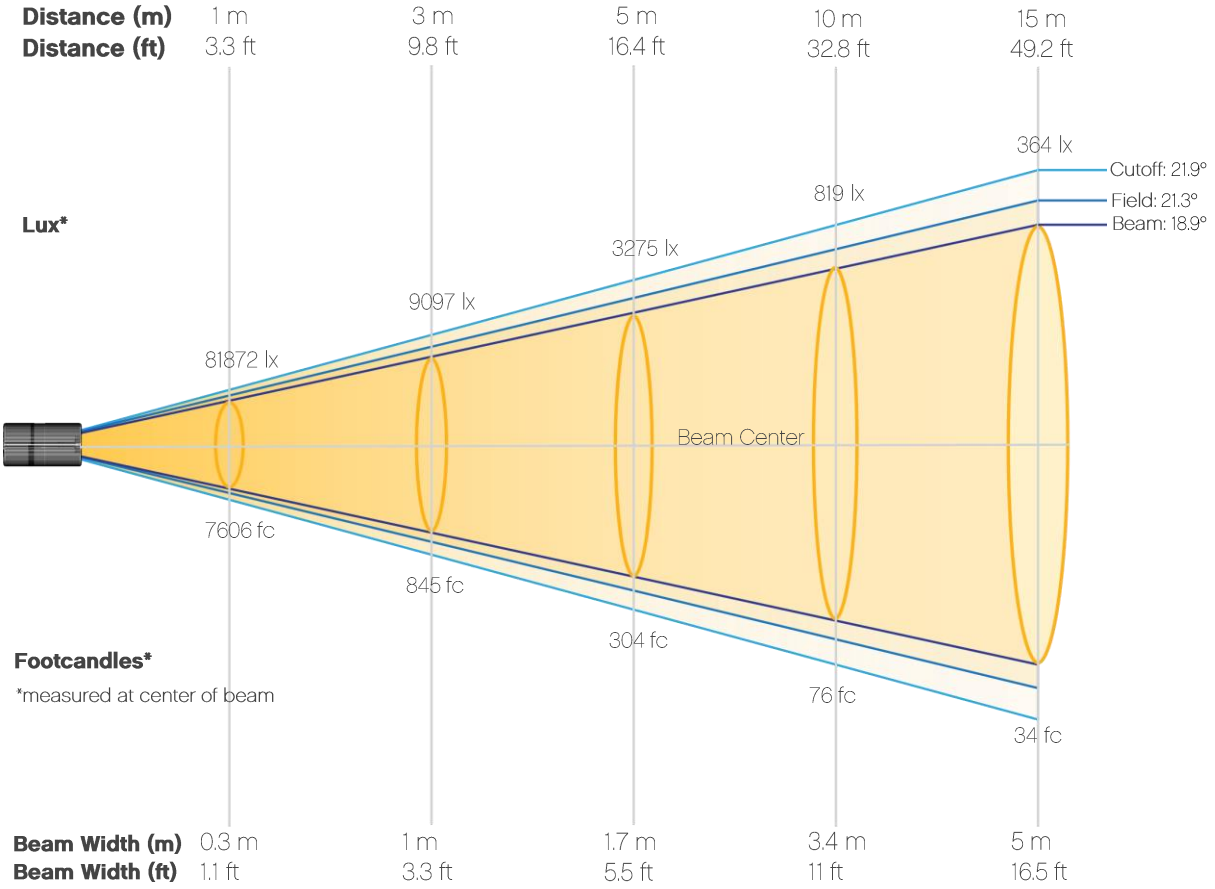
CIE 1931



Photometric Report

Ovation E-930VW: 19deg Lens, Full Power

Beam Details



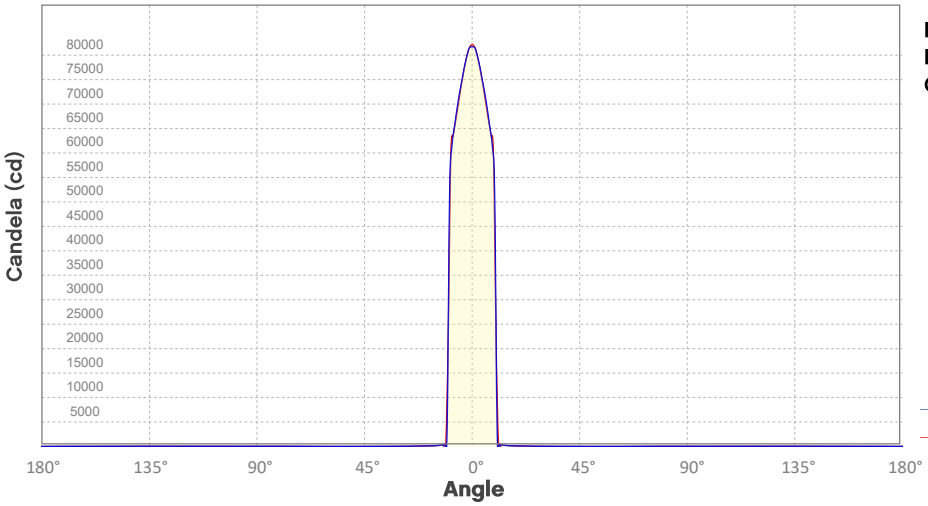
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	81872	20468	9097	5117	3275	2274	1671	1279	1011	819
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	677	569	484	418	364	320	283	253	227	205
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	7606	1902	845	475	304	211	155	119	94	76
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	63	53	45	39	34	30	26	23	21	19

Photometric Report

Ovation E-930VW: 19deg Lens, Full Power

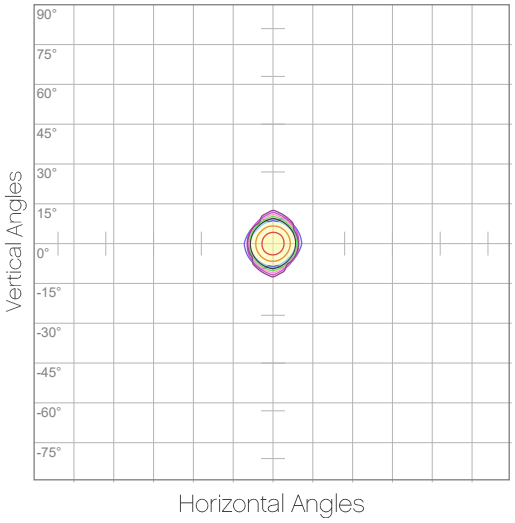
Candela Plot



Beam Angle (50%): 19.1°
Field Angle (10%): 21.1°
Cutoff Angle (3%): 21.8°

Horizontal Distribution
Vertical Distribution

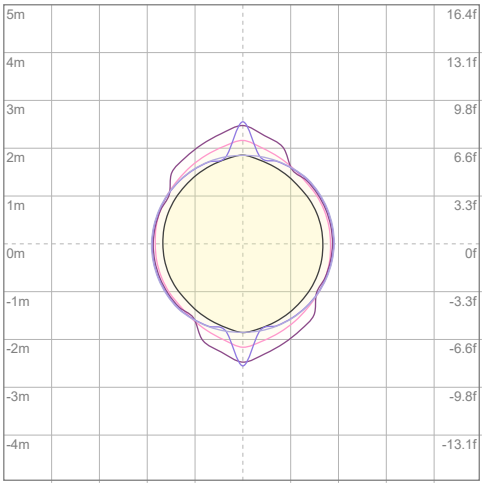
Polar Diagrams



iso-candela Diagram

10%	8187 cd
20%	16374 cd
30%	24561 cd
40%	32749 cd
50%	40936 cd
60%	49123 cd
70%	57310 cd
80%	65497 cd
90%	73684 cd

Conditions:
Number of c-planes: 8
Candela at center: 81872 cd



iso-illuminance Diagram

3%	24.6 lx
5%	40.9 lx
10%	81.9 lx
30%	246 lx
50%	409 lx

Conditions:
Number of c-planes: 8
Lux at center: 819 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 E-930VW: 14deg Lens, Full Power

Report Summary

Output

Total Lumens: 5310 lm
Peak Intensity: 113052 cd
Illuminance @ 5m: 4522 lux
Fixture Efficacy: 20 lm/W

Optical

Horizontal Beam Angle (50%): 13.4°
Vertical Beam Angle (50%): 13.4°
Horizontal Field Angle (10%): 16.8°
Vertical Field Angle (10%): 16.8°
Horizontal Cutoff Angle (3%): 17.5°
Vertical Cutoff Angle (3%): 17.5°

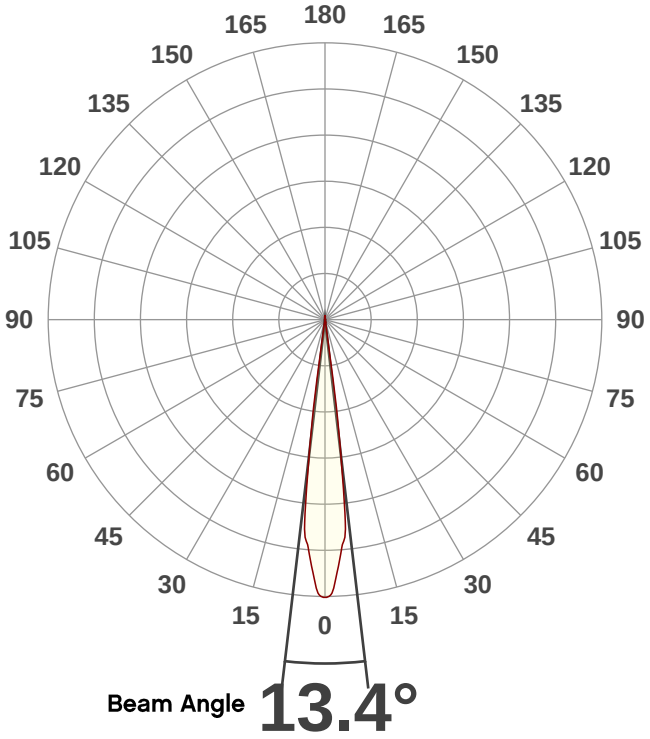
Conditions

AC Supply: 118 V, 60 Hz
Power: 270.31 W
Current: 2.29 A
Power Factor: 0.99

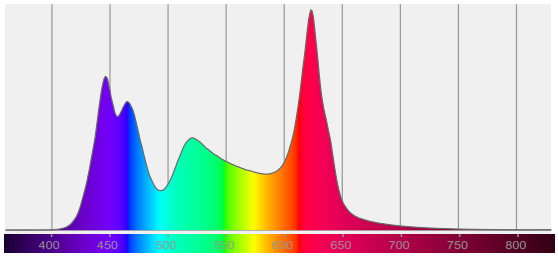
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/30/2020 to LM-63-2002 Standards.

Overall Measurement

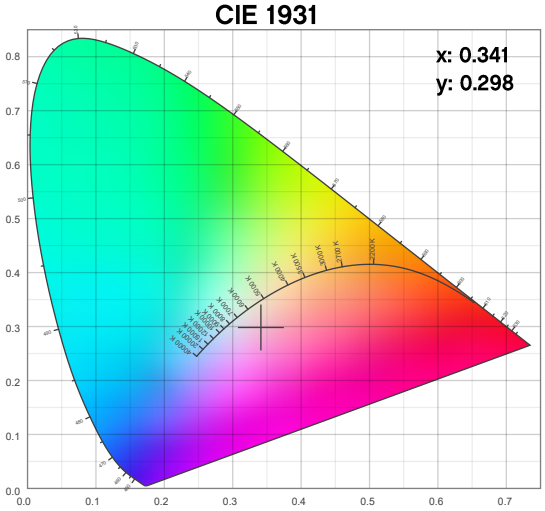
Angular Beam Distribution



Spectral Distribution



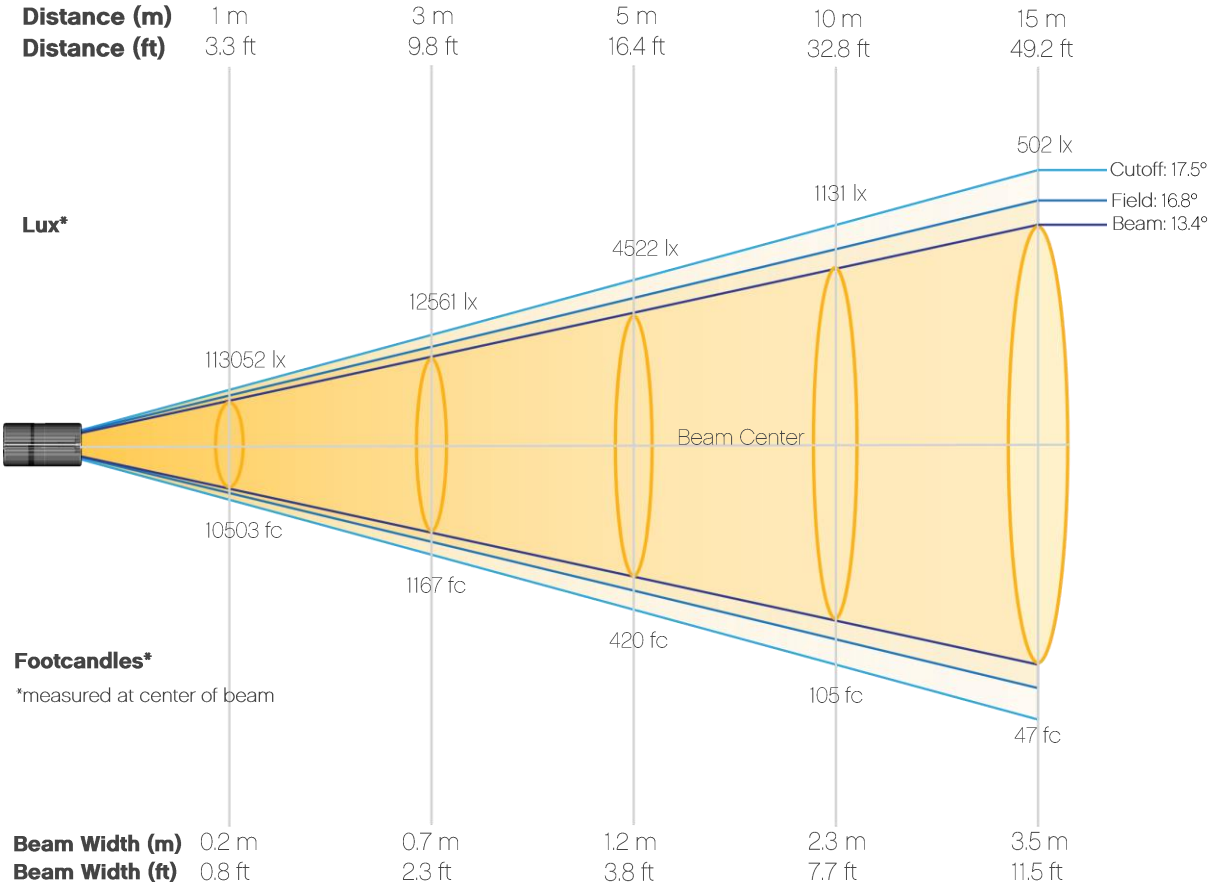
CIE 1931



Photometric Report

Ovation E-930VW: 14deg Lens, Full Power

Beam Details



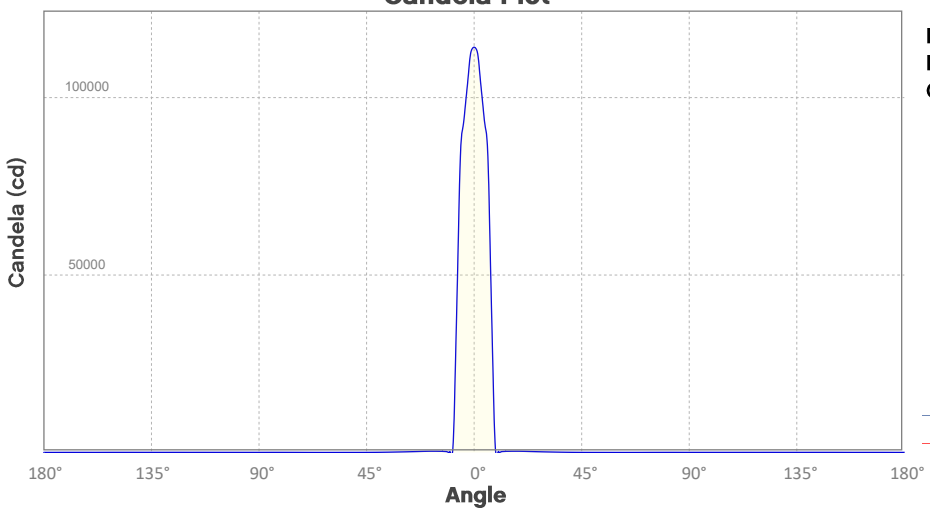
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	113052	28263	12561	7066	4522	3140	2307	1766	1396	1131
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	934	785	669	577	502	442	391	349	313	283
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	10503	2626	1167	656	420	292	214	164	130	105
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	87	73	62	54	47	41	36	32	29	26

Photometric Report

Ovation E-930VW: 14deg Lens, Full Power

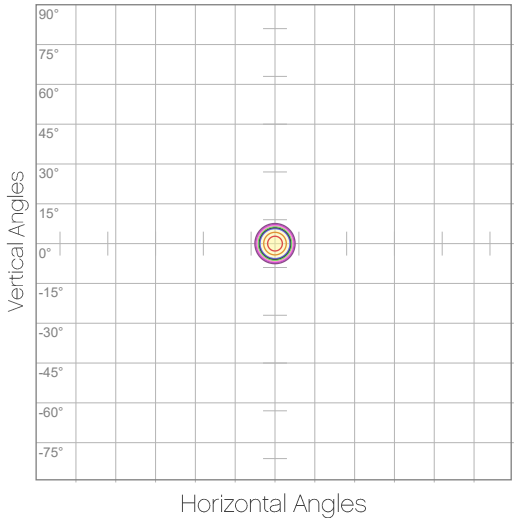
Candela Plot



Beam Angle (50%): 13.4°
Field Angle (10%): 16.8°
Cutoff Angle (3%): 17.5°

Horizontal Distribution
Vertical Distribution

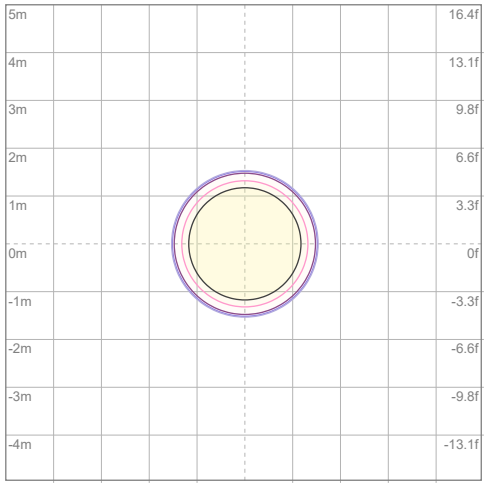
Polar Diagrams



iso-candela Diagram

10%	11305 cd
20%	22610 cd
30%	33916 cd
40%	45221 cd
50%	56526 cd
60%	67831 cd
70%	79136 cd
80%	90442 cd
90%	101747 cd

Conditions:
Number of c-planes: 2
Candela at center: 113052 cd



iso-illuminance Diagram

3%	33.9 lx
5%	56.5 lx
10%	113 lx
30%	339 lx
50%	565 lx

Conditions:
Number of c-planes: 2
Lux at center: 1131 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 E-930VW: 10deg Lens, Full Power

Report Summary

Output

Total Lumens: 4898 lm
Peak Intensity: 232843 cd
Illuminance @ 5m: 9314 lux
Fixture Efficacy: 18 lm/W

Optical

Horizontal Beam Angle (50%): 9.7°
Vertical Beam Angle (50%): 9.7°
Horizontal Field Angle (10%): 11.1°
Vertical Field Angle (10%): 11.1°
Horizontal Cutoff Angle (3%): 11.6°
Vertical Cutoff Angle (3%): 11.6°

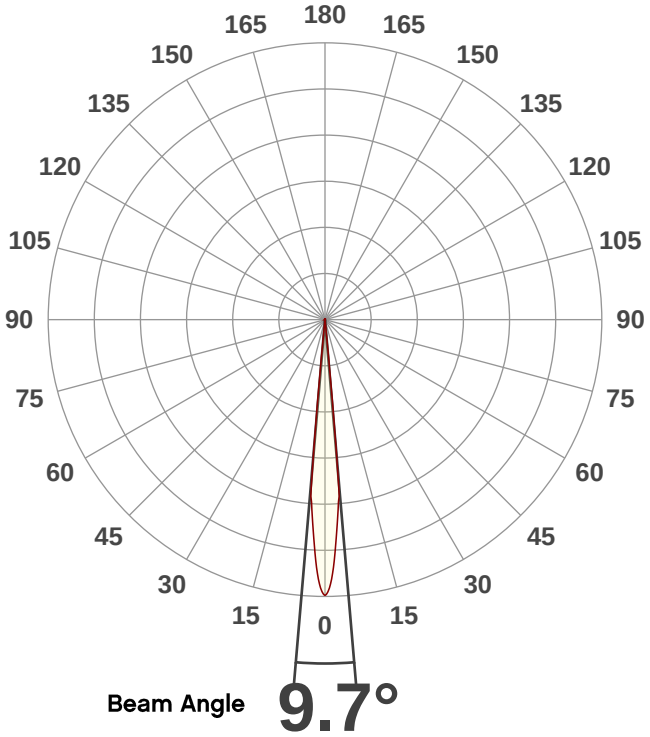
Conditions

AC Supply: 118 V, 60.1 Hz
Power: 272.13 W
Current: 2.31 A
Power Factor: 0.99

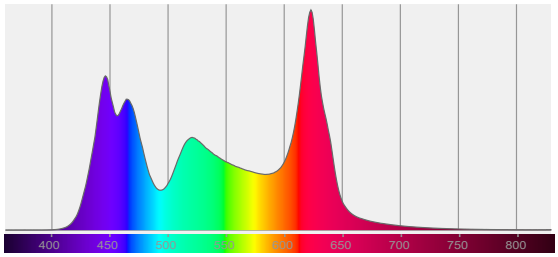
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/30/2020 to LM-63-2002 Standards.

Overall Measurement

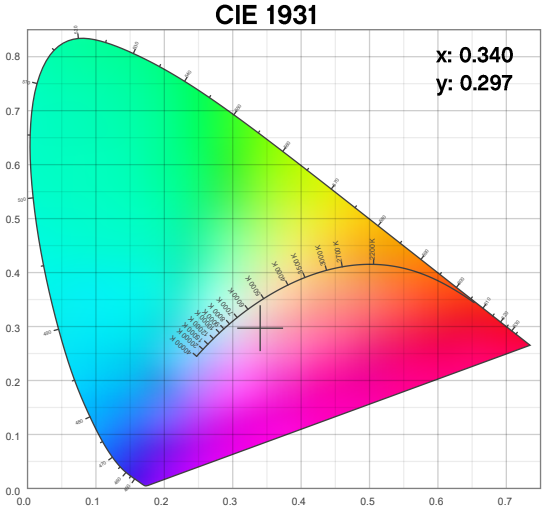
Angular Beam Distribution



Spectral Distribution



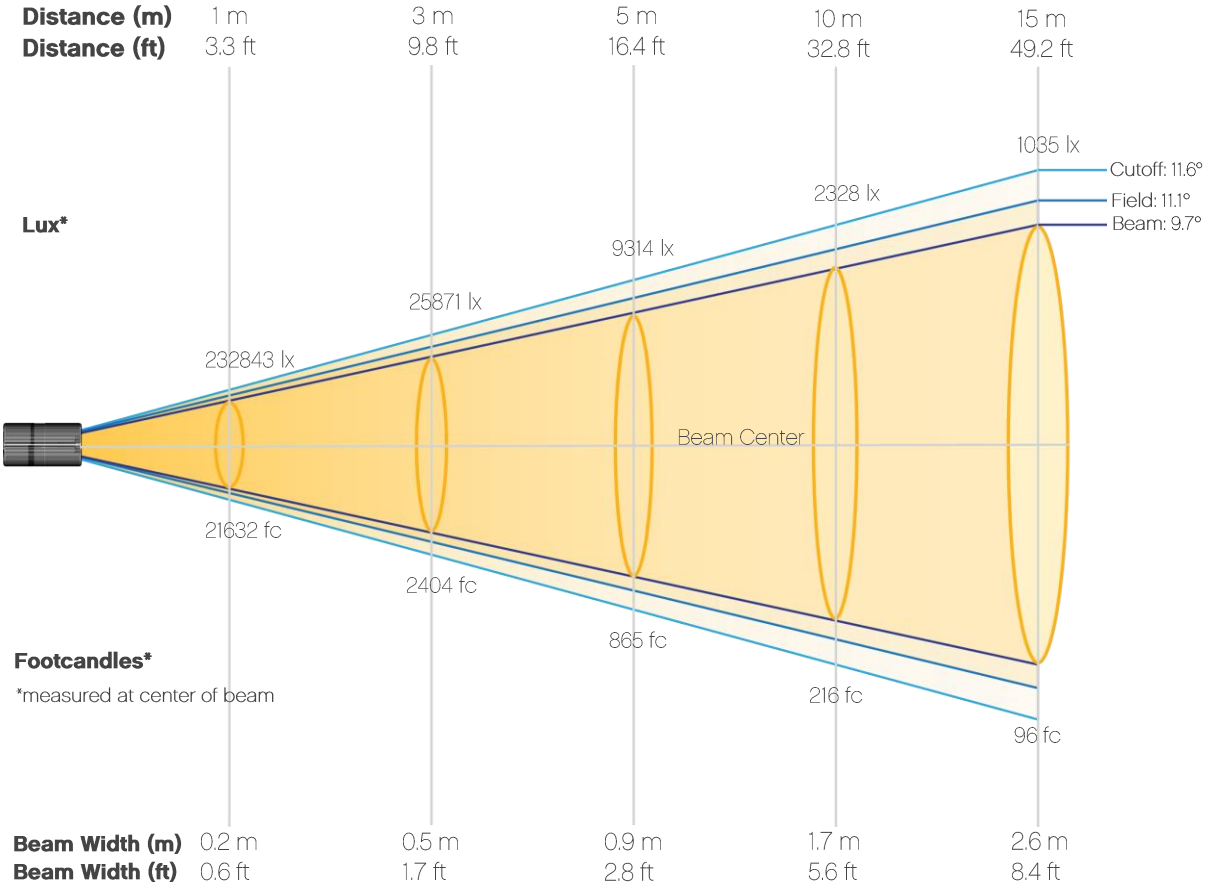
CIE 1931



Photometric Report

Ovation E-930VW: 10deg Lens, Full Power

Beam Details



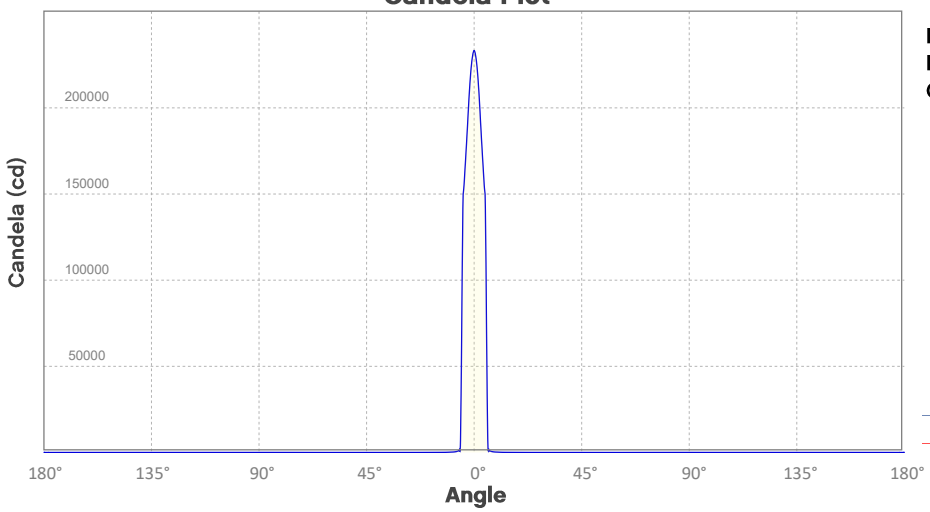
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	232843	58211	25871	14553	9314	6468	4752	3638	2875	2328
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1924	1617	1378	1188	1035	910	806	719	645	582
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	21632	5408	2404	1352	865	601	441	338	267	216
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	179	150	128	110	96	84	75	67	60	54

Photometric Report

Ovation E-930VW: 10deg Lens, Full Power

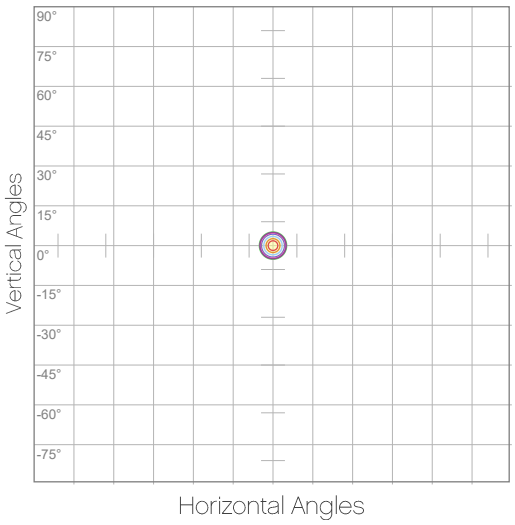
Candela Plot



Beam Angle (50%): 9.7°
Field Angle (10%): 11.1°
Cutoff Angle (3%): 11.6°

Horizontal Distribution
Vertical Distribution

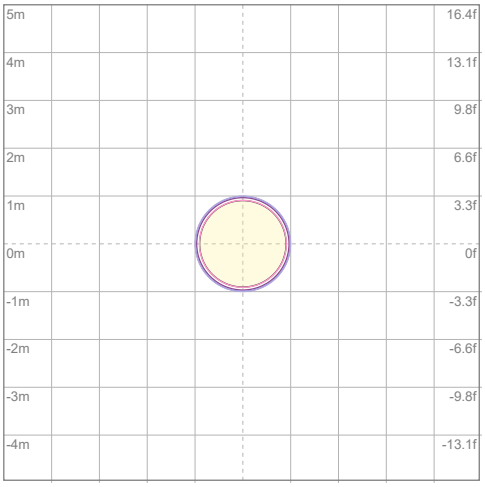
Polar Diagrams



iso-candela Diagram

10%	23284 cd
20%	46569 cd
30%	69853 cd
40%	93137 cd
50%	116422 cd
60%	139706 cd
70%	162990 cd
80%	186275 cd
90%	209559 cd

Conditions:
Number of c-planes: 2
Candela at center: 232843 cd



iso-illuminance Diagram

3%	69.9 lx
5%	116 lx
10%	233 lx
30%	699 lx
50%	1164 lx

Conditions:
Number of c-planes: 2
Lux at center: 2328 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 E-930VW: 5deg Lens, Full Power

Report Summary

Output

Total Lumens: 3170 lm
Peak Intensity: 402796 cd
Illuminance @ 5m: 16112 lux
Fixture Efficacy: 12 lm/W

Optical

Horizontal Beam Angle (50%): 5.6°
Vertical Beam Angle (50%): 5.6°
Horizontal Field Angle (10%): 6.5°
Vertical Field Angle (10%): 6.5°
Horizontal Cutoff Angle (3%): 7.3°
Vertical Cutoff Angle (3%): 7.3°

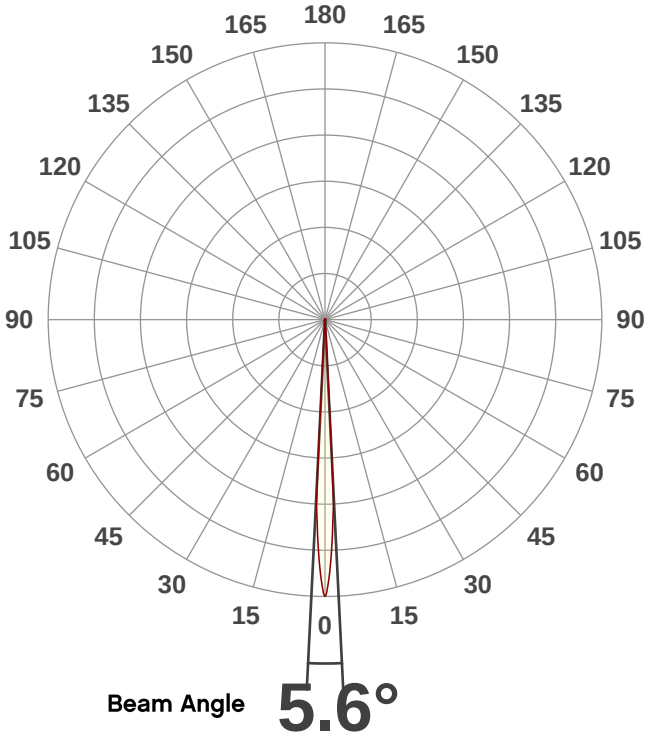
Conditions

AC Supply: 118 V, 60 Hz
Power: 273.31 W
Current: 2.32 A
Power Factor: 0.99

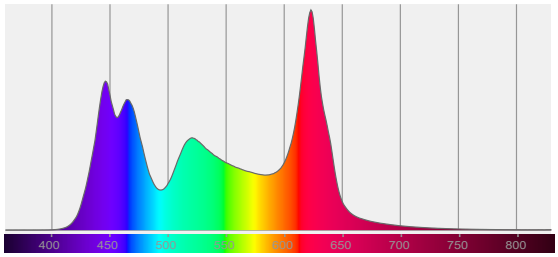
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/30/2020 to LM-63-2002 Standards.

Overall Measurement

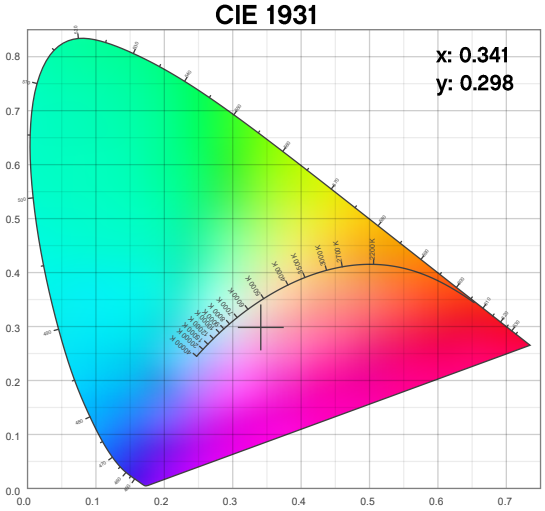
Angular Beam Distribution



Spectral Distribution



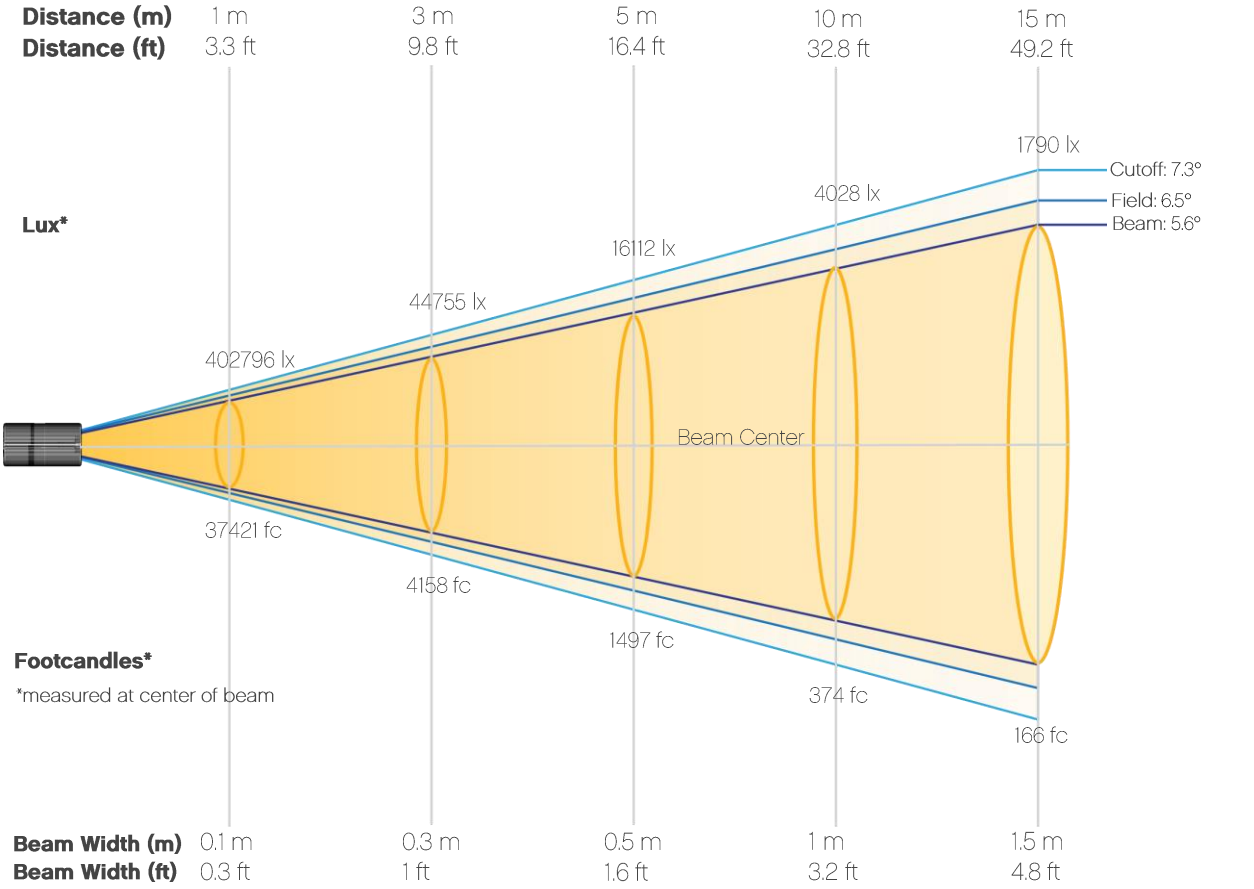
CIE 1931



Photometric Report

Ovation E-930VW: 5deg Lens, Full Power

Beam Details



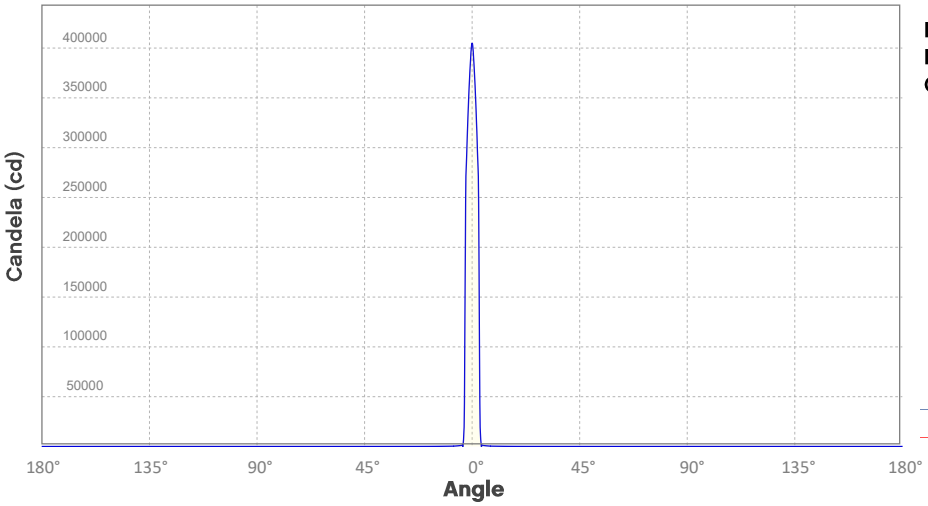
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	402796	100699	44755	25175	16112	11189	8220	6294	4973	4028
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	3329	2797	2383	2055	1790	1573	1394	1243	1116	1007
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	37421	9355	4158	2339	1497	1039	764	585	462	374
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	309	260	221	191	166	146	129	115	104	94

Photometric Report

Ovation E-930VW: 5deg Lens, Full Power

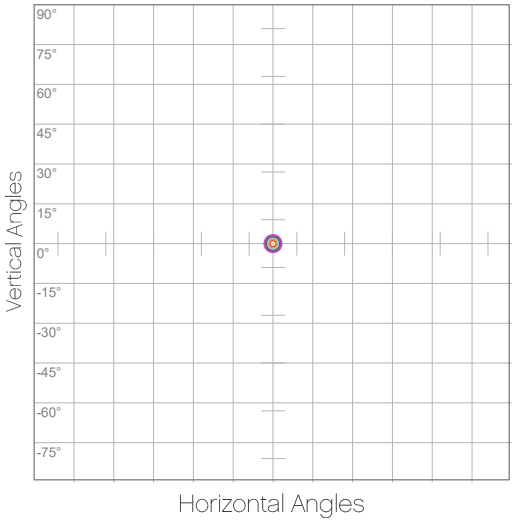
Candela Plot



Beam Angle (50%): 5.6°
Field Angle (10%): 6.5°
Cutoff Angle (3%): 7.3°

Horizontal Distribution
Vertical Distribution

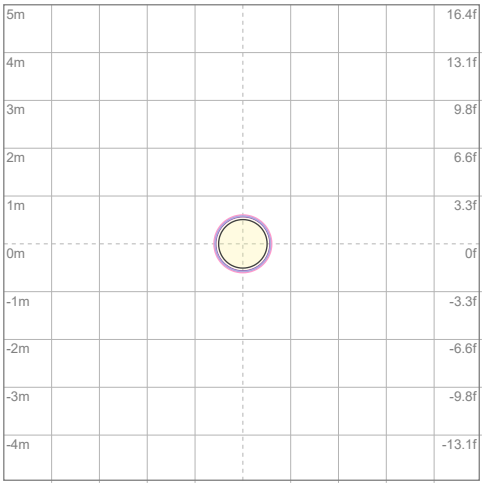
Polar Diagrams



iso-candela Diagram

10%	40280 cd
20%	80559 cd
30%	120839 cd
40%	161118 cd
50%	201398 cd
60%	241678 cd
70%	281957 cd
80%	322237 cd
90%	362517 cd

Conditions:
Number of c-planes: 2
Candela at center: 402796 cd



iso-illuminance Diagram

3%	121 lx
5%	201 lx
10%	403 lx
30%	1208 lx
50%	2014 lx

Conditions:
Number of c-planes: 2
Lux at center: 4028 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 E-930VW: 25-50 Zoom Lens-50deg, Full Power

Report Summary

Output

Total Lumens: 8614 lm
Peak Intensity: 24485 cd
Illuminance @ 5m: 979 lux
Fixture Efficacy: 32 lm/W

Optical

Horizontal Beam Angle (50%): 40.8°
Vertical Beam Angle (50%): 40.8°
Horizontal Field Angle (10%): 43.9°
Vertical Field Angle (10%): 43.9°
Horizontal Cutoff Angle (3%): 46.5°
Vertical Cutoff Angle (3%): 46.5°

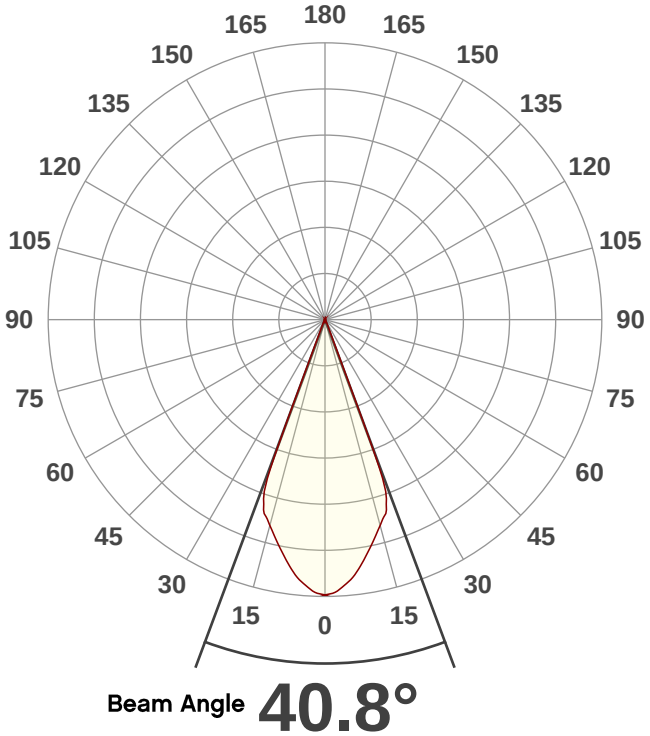
Conditions

AC Supply: 118 V, 60 Hz
Power: 273.2 W
Current: 2.31 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 1/31/2020 to LM-63-2002 Standards.

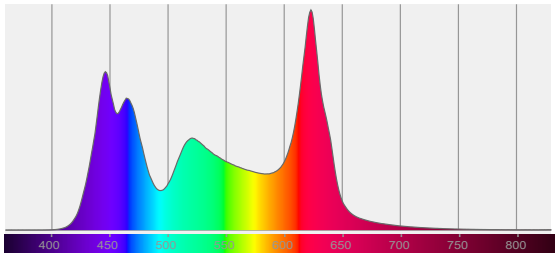
Overall Measurement

Angular Beam Distribution

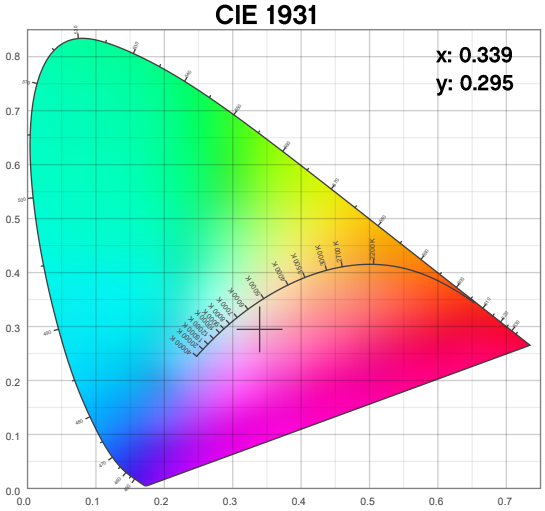


Beam Angle **40.8°**

Spectral Distribution



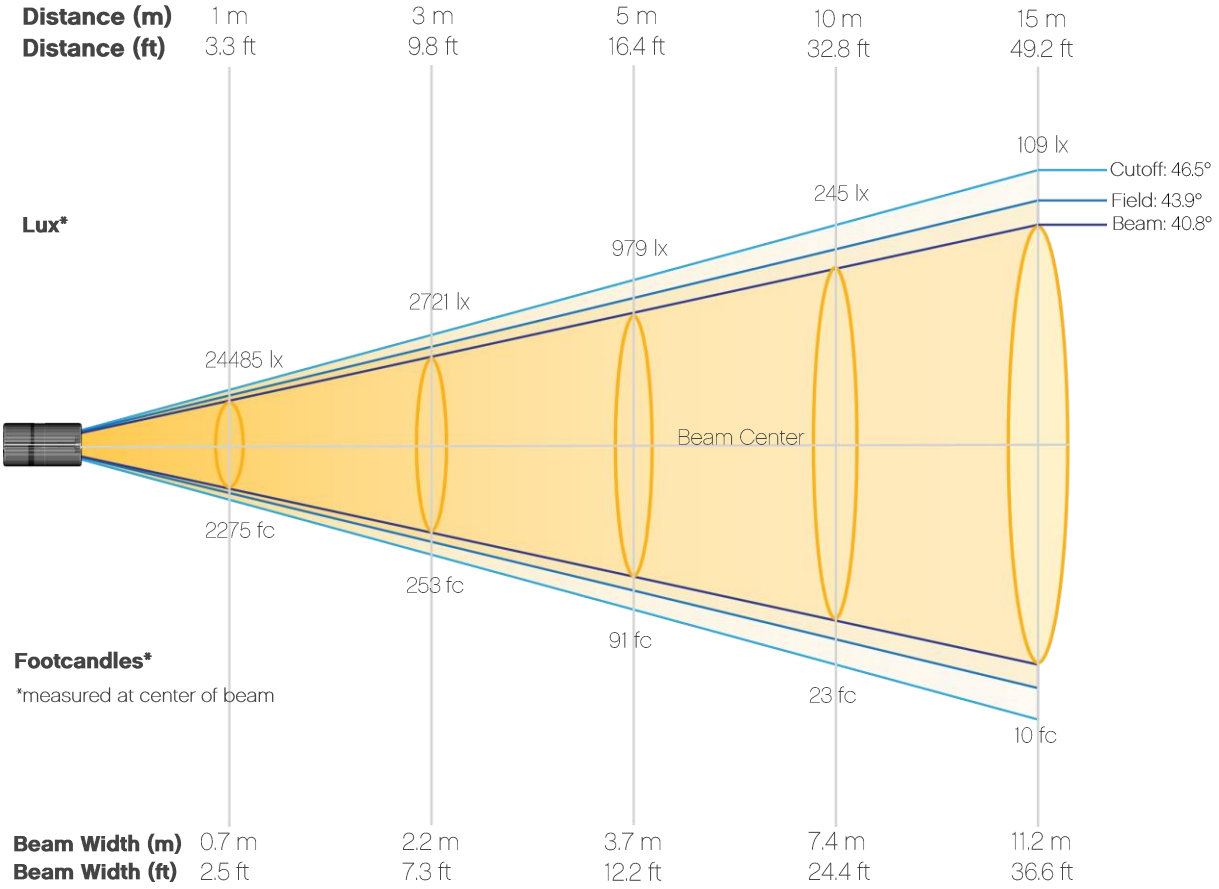
CIE 1931



Photometric Report

Ovation E-930VW: 25-50 Zoom Lens-50deg, Full Power

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	24485	6121	2721	1530	979	680	500	383	302	245
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	202	170	145	125	109	96	85	76	68	61
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2275	569	253	142	91	63	46	36	28	23
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	19	16	13	12	10	9	8	7	6	6

Photometric Report

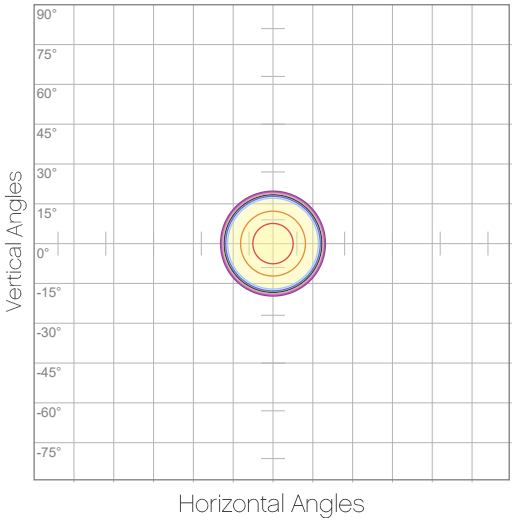
Ovation E-930VW: 25-50 Zoom Lens-50deg, Full Power

Candela Plot

Beam Angle (50%): 40.8°
Field Angle (10%): 43.9°
Cutoff Angle (3%): 46.5°

Horizontal Distribution
Vertical Distribution

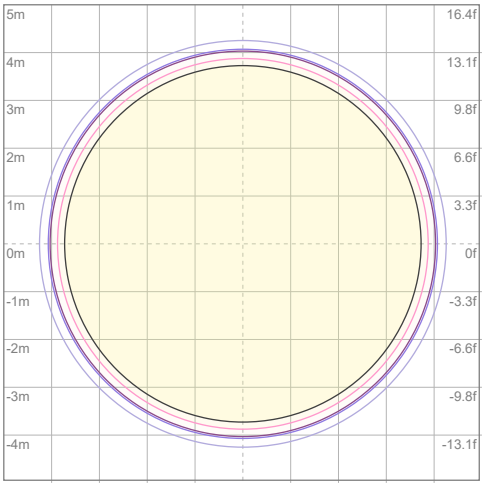
Polar Diagrams



iso-candela Diagram

10%	2448 cd
20%	4897 cd
30%	7345 cd
40%	9794 cd
50%	12242 cd
60%	14691 cd
70%	17139 cd
80%	19588 cd
90%	22036 cd

Conditions:
Number of c-planes: 2
Candela at center: 24485 cd



iso-illuminance Diagram

3%	7.35 lx
5%	12.2 lx
10%	24.5 lx
30%	73.5 lx
50%	122 lx

Conditions:
Number of c-planes: 2
Lux at center: 245 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 E-930VW: 25-50 Zoom Lens-25deg, Full Power

Report Summary

Output

Total Lumens: 6906 lm
Peak Intensity: 58753 cd
Illuminance @ 5m: 2350 lux
Fixture Efficacy: 25 lm/W

Optical

Horizontal Beam Angle (50%): 22.5°
Vertical Beam Angle (50%): 22.5°
Horizontal Field Angle (10%): 26.9°
Vertical Field Angle (10%): 26.9°
Horizontal Cutoff Angle (3%): 29°
Vertical Cutoff Angle (3%): 29°

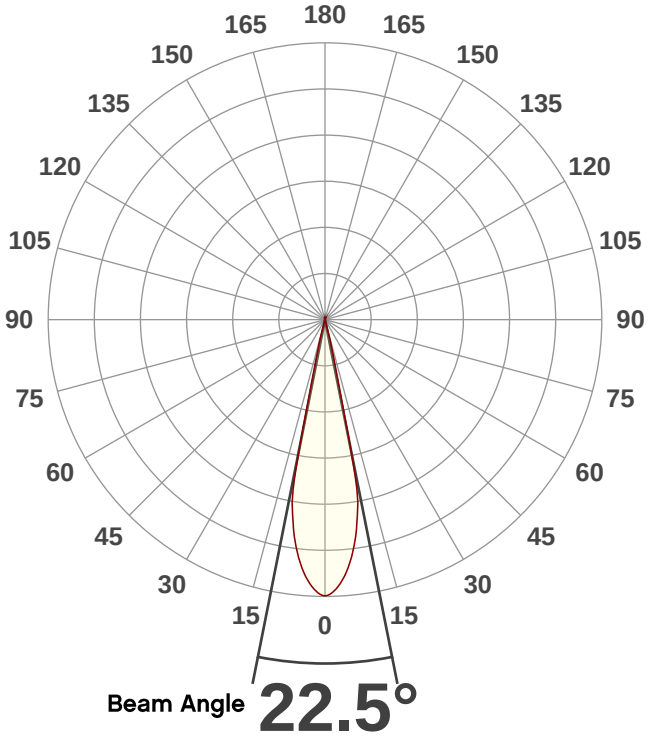
Conditions

AC Supply: 118 V, 60 Hz
Power: 272.53 W
Current: 2.30 A
Power Factor: 0.99

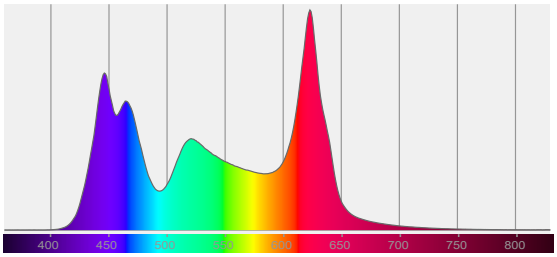
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/31/2020 to LM-63-2002 Standards.

Overall Measurement

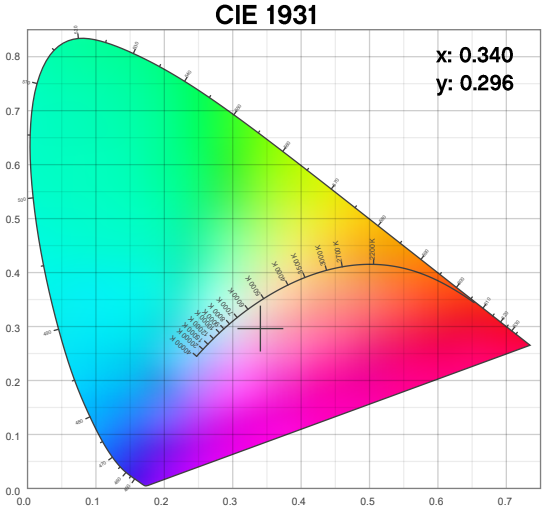
Angular Beam Distribution



Spectral Distribution



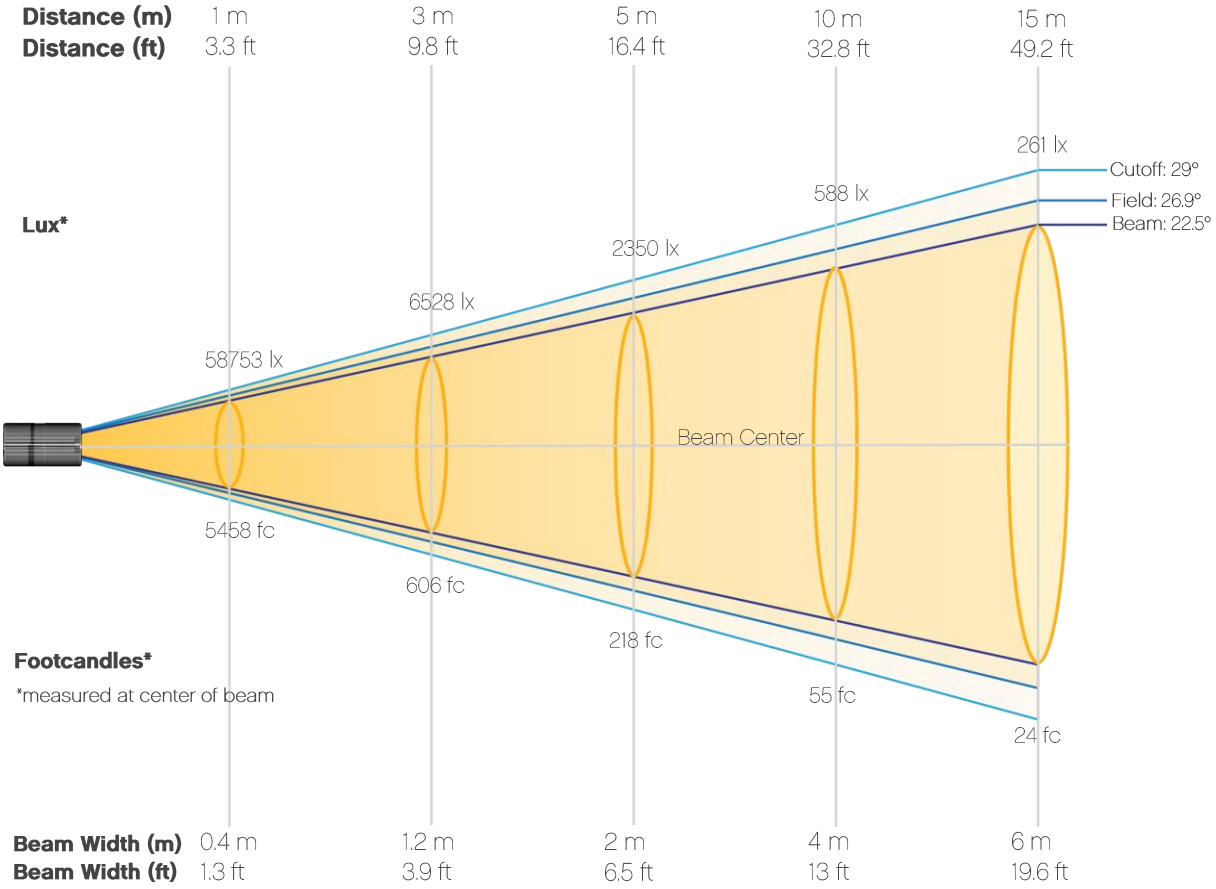
CIE 1931



Photometric Report

Ovation E-930VW: 25-50 Zoom Lens-25deg, Full Power

Beam Details



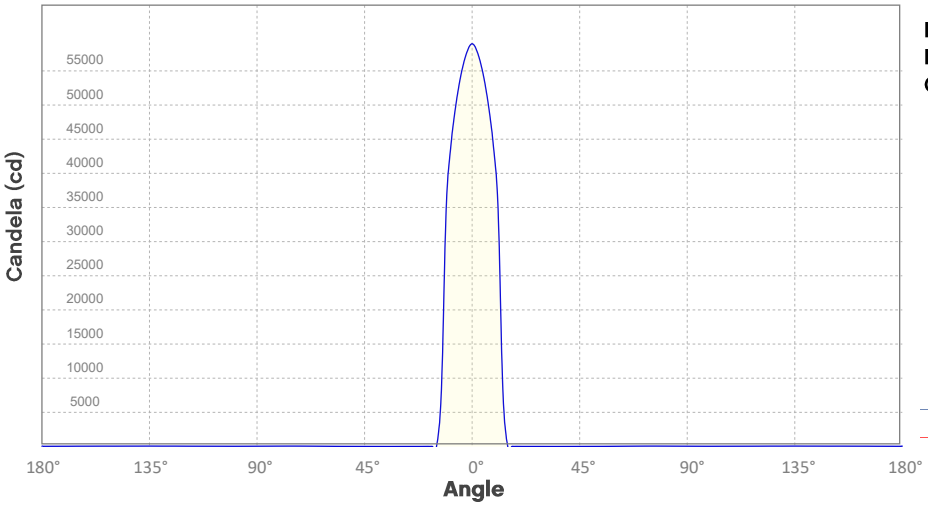
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	58753	14688	6528	3672	2350	1632	1199	918	725	588
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	486	408	348	300	261	230	203	181	163	147
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	5458	1365	606	341	218	152	111	85	67	55
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	45	38	32	28	24	21	19	17	15	14

Photometric Report

Ovation E-930VW: 25-50 Zoom Lens-25deg, Full Power

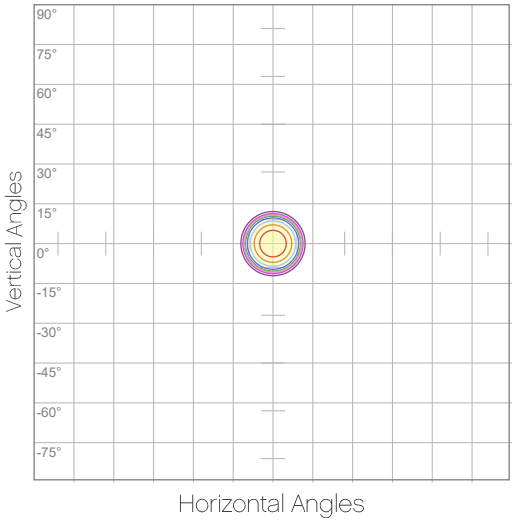
Candela Plot



Beam Angle (50%): 22.5°
Field Angle (10%): 26.9°
Cutoff Angle (3%): 29°

Horizontal Distribution
Vertical Distribution

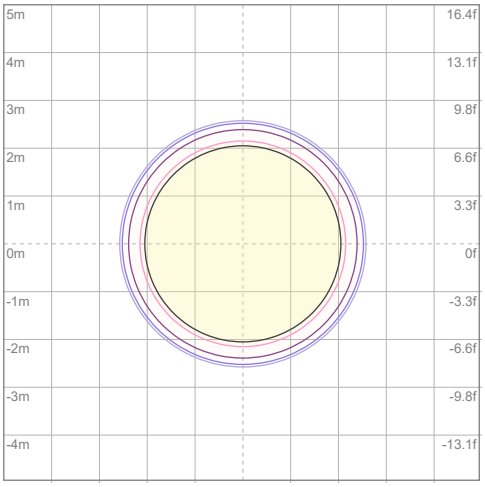
Polar Diagrams



iso-candela Diagram

10%	5875 cd
20%	11751 cd
30%	17626 cd
40%	23501 cd
50%	29377 cd
60%	35252 cd
70%	41127 cd
80%	47003 cd
90%	52878 cd

Conditions:
Number of c-planes: 2
Candela at center: 58753 cd



iso-illuminance Diagram

3%	17.6 lx
5%	29.4 lx
10%	58.8 lx
30%	176 lx
50%	294 lx

Conditions:
Number of c-planes: 2
Lux at center: 588 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 E-930VW: 15-30 Zoom Lens-30deg, Full Power

Report Summary

Output

Total Lumens: 6934 lm
Peak Intensity: 43095 cd
Illuminance @ 5m: 1724 lux
Fixture Efficacy: 26 lm/W

Optical

Horizontal Beam Angle (50%): 26.4°
Vertical Beam Angle (50%): 26.4°
Horizontal Field Angle (10%): 31.9°
Vertical Field Angle (10%): 31.9°
Horizontal Cutoff Angle (3%): 34.2°
Vertical Cutoff Angle (3%): 34.2°

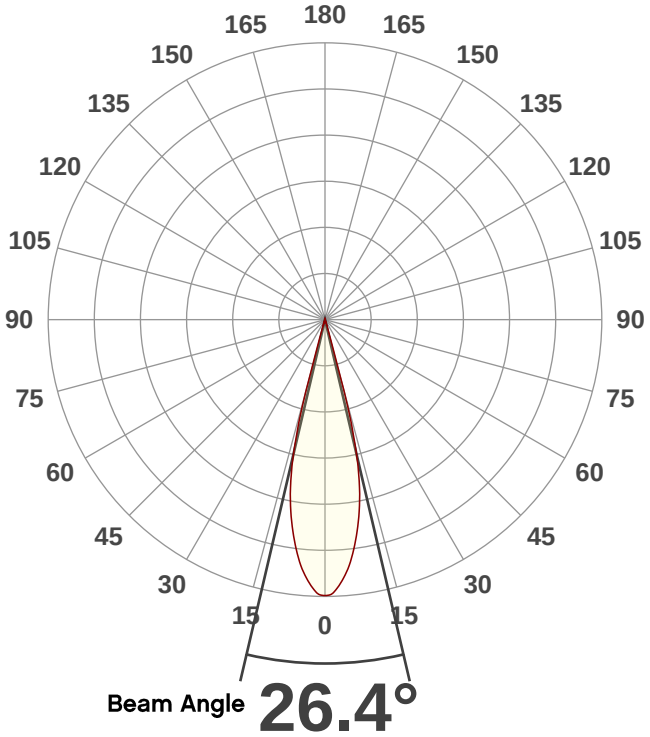
Conditions

AC Supply: 118 V, 60.1 Hz
Power: 271.07 W
Current: 2.30 A
Power Factor: 0.99

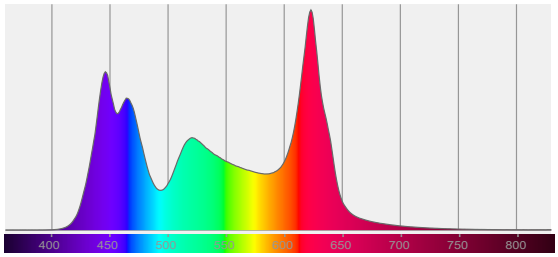
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/31/2020 to LM-63-2002 Standards.

Overall Measurement

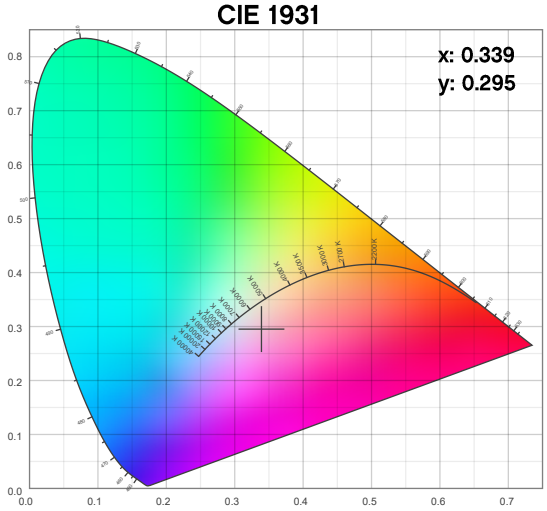
Angular Beam Distribution



Spectral Distribution



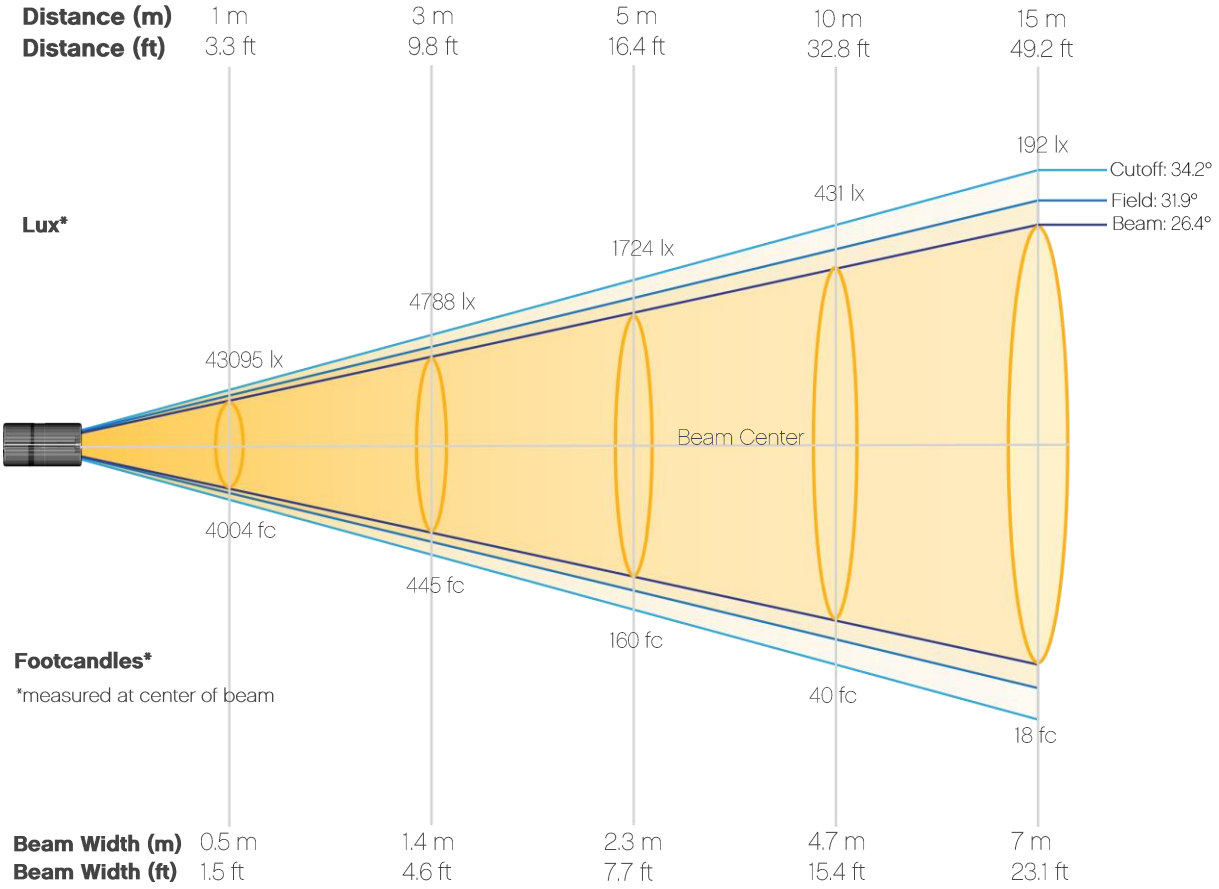
CIE 1931



Photometric Report

Ovation E-930VW: 15-30 Zoom Lens-30deg, Full Power

Beam Details



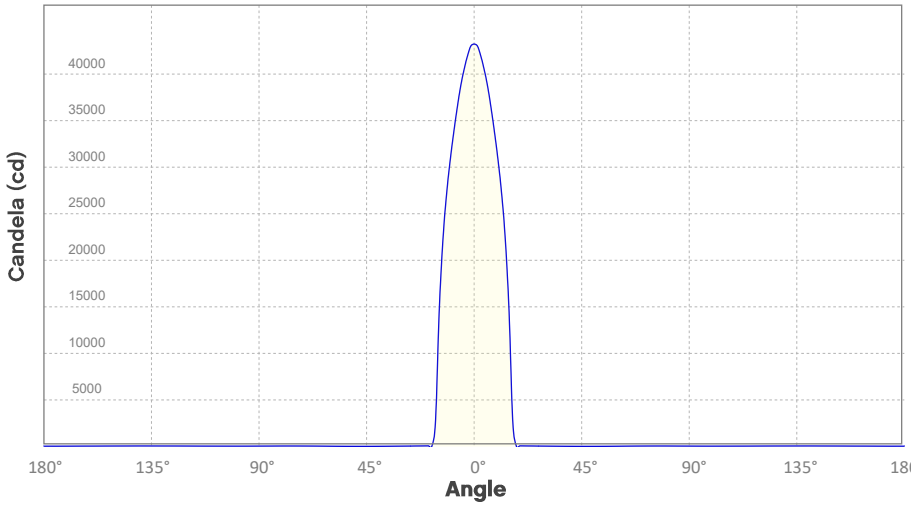
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	43095	10774	4788	2693	1724	1197	879	673	532	431
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	356	299	255	220	192	168	149	133	119	108
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	4004	1001	445	250	160	111	82	63	49	40
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	33	28	24	20	18	16	14	12	11	10

Photometric Report

Ovation E-930VW: 15-30 Zoom Lens-30deg, Full Power

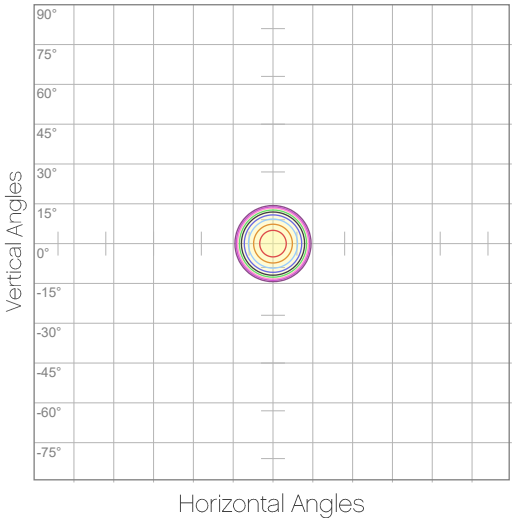
Candela Plot



Beam Angle (50%): 26.4°
Field Angle (10%): 31.9°
Cutoff Angle (3%): 34.2°

Horizontal Distribution
Vertical Distribution

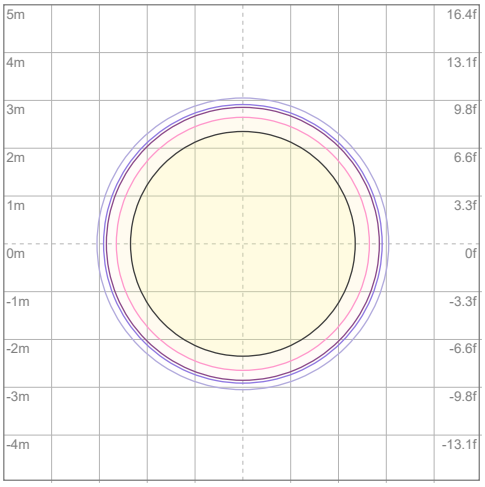
Polar Diagrams



iso-candela Diagram

10%	4309 cd
20%	8619 cd
30%	12928 cd
40%	17238 cd
50%	21547 cd
60%	25857 cd
70%	30166 cd
80%	34476 cd
90%	38785 cd

Conditions:
Number of c-planes: 2
Candela at center: 43095 cd



iso-illuminance Diagram

3%	12.9 lx
5%	21.5 lx
10%	43.1 lx
30%	129 lx
50%	215 lx

Conditions:
Number of c-planes: 2
Lux at center: 431 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 E-930VW: 15-30 Zoom Lens-15deg, Full Power

Report Summary

Output

Total Lumens: 5301 lm
Peak Intensity: 165053 cd
Illuminance @ 5m: 6602 lux
Fixture Efficacy: 20 lm/W

Optical

Horizontal Beam Angle (50%): 10.8°
Vertical Beam Angle (50%): 10.8°
Horizontal Field Angle (10%): 14.7°
Vertical Field Angle (10%): 14.7°
Horizontal Cutoff Angle (3%): 16.1°
Vertical Cutoff Angle (3%): 16.1°

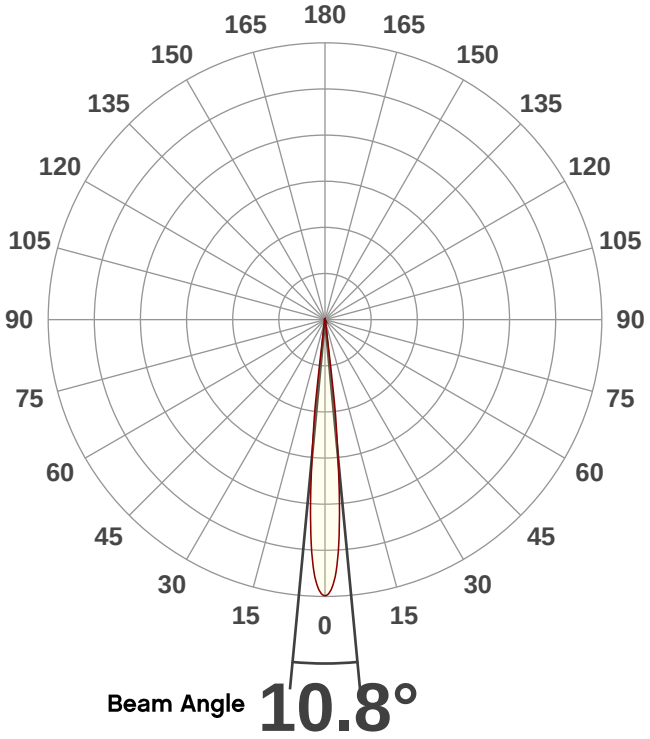
Conditions

AC Supply: 118 V, 60 Hz
Power: 272.6 W
Current: 2.32 A
Power Factor: 0.99

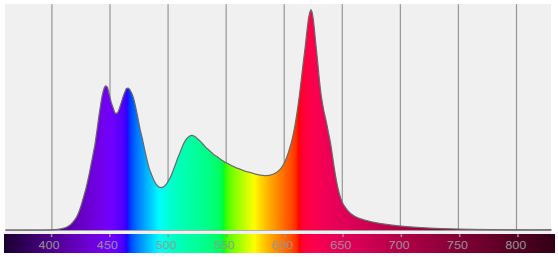
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/30/2020 to LM-63-2002 Standards.

Overall Measurement

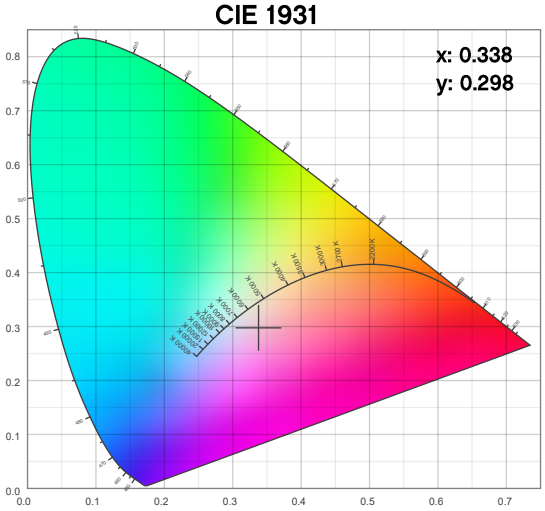
Angular Beam Distribution



Spectral Distribution



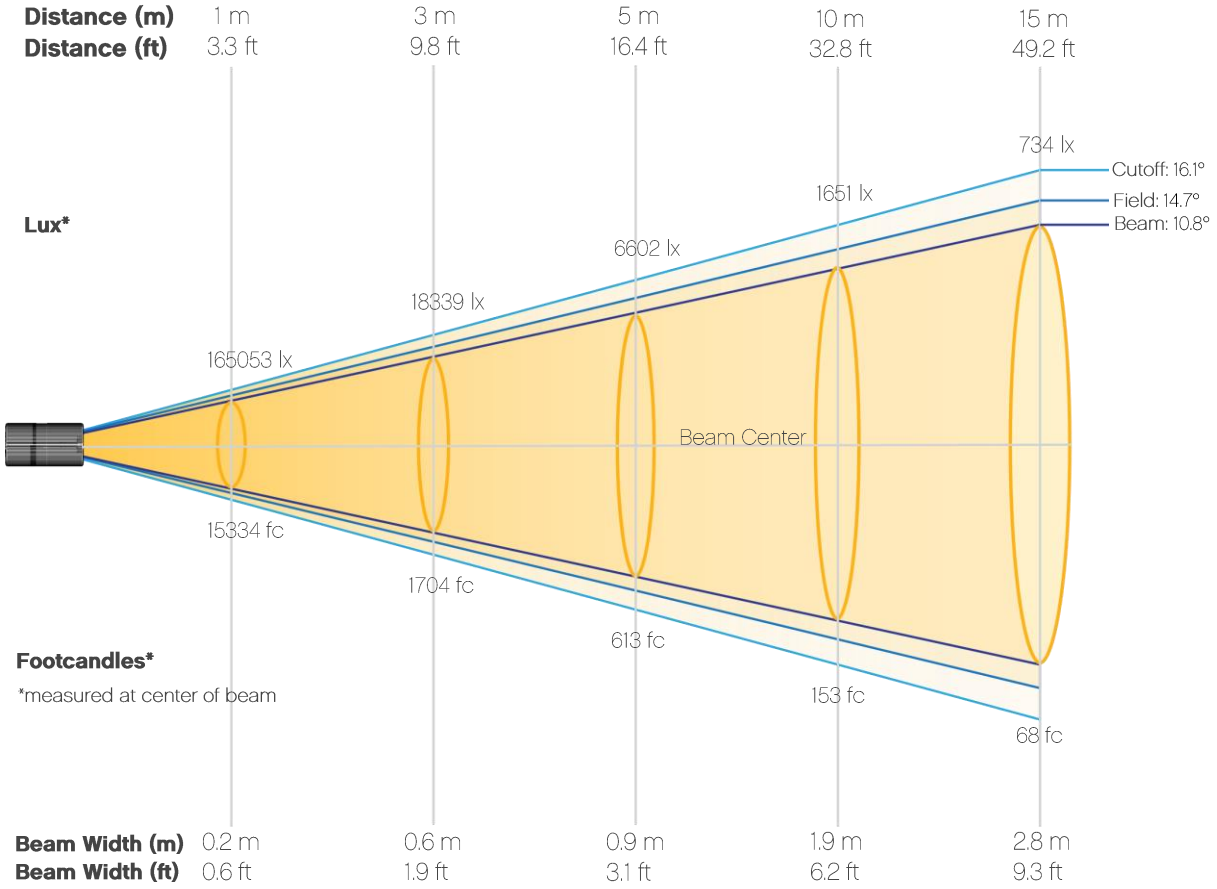
CIE 1931



Photometric Report

Ovation E-930VW: 15-30 Zoom Lens-15deg, Full Power

Beam Details



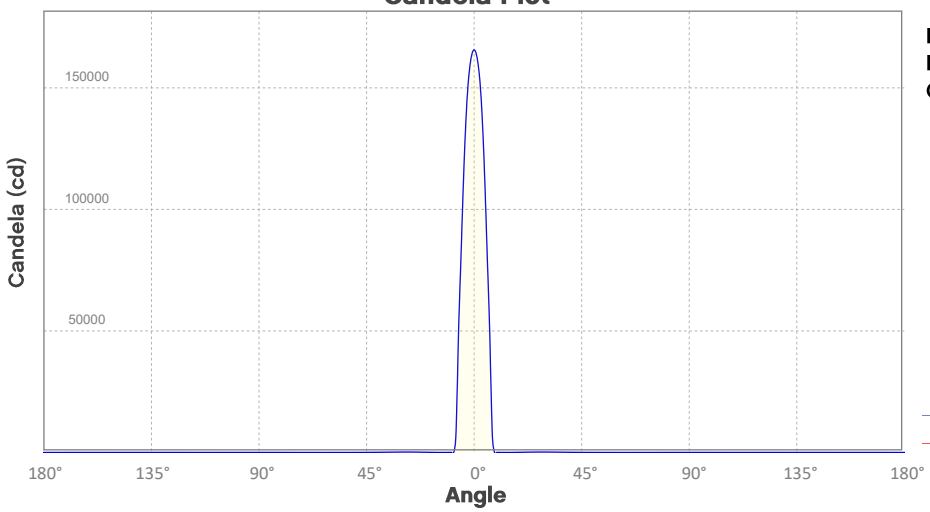
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	165053	41263	18339	10316	6602	4585	3368	2579	2038	1651
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1364	1146	977	842	734	645	571	509	457	413
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	15334	3833	1704	958	613	426	313	240	189	153
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	127	106	91	78	68	60	53	47	42	38

Photometric Report

Ovation E-930VW: 15-30 Zoom Lens-15deg, Full Power

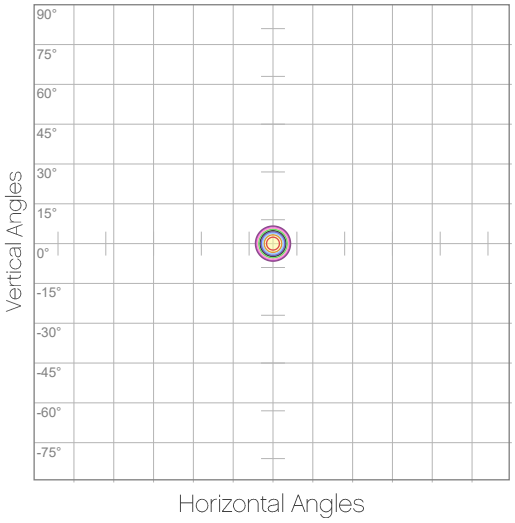
Candela Plot



Beam Angle (50%): 10.8°
Field Angle (10%): 14.7°
Cutoff Angle (3%): 16.1°

Horizontal Distribution
Vertical Distribution

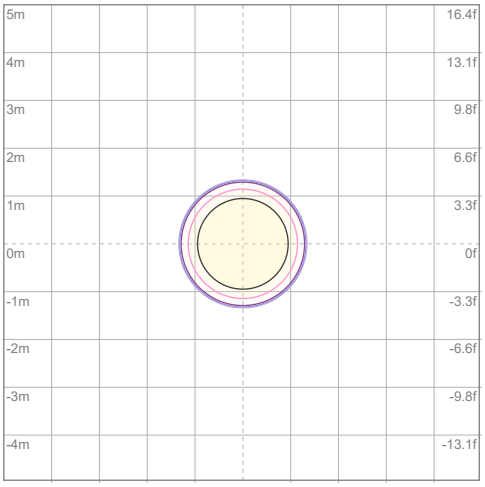
Polar Diagrams



iso-candela Diagram

10%	16505 cd
20%	33011 cd
30%	49516 cd
40%	66021 cd
50%	82527 cd
60%	99032 cd
70%	115537 cd
80%	132043 cd
90%	148548 cd

Conditions:
Number of c-planes: 2
Candela at center: 165053 cd



iso-illuminance Diagram

3%	49.5 lx
5%	82.5 lx
10%	165 lx
30%	495 lx
50%	825 lx

Conditions:
Number of c-planes: 2
Lux at center: 1651 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 E-930VW: 3200K

Report Summary

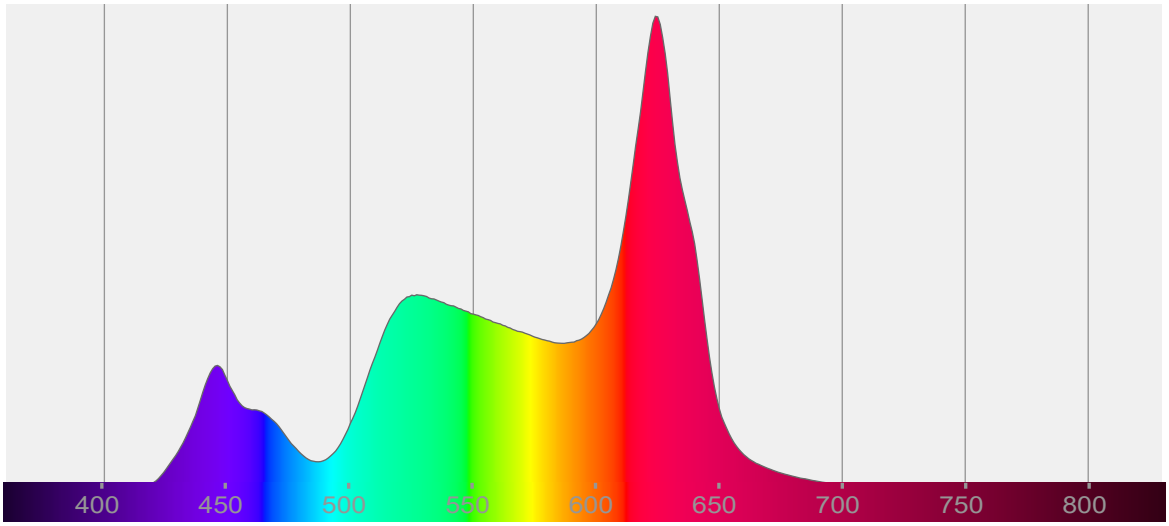
Measurements

Total Lumens: 6287 lm
Peak Intensity: 44705 cd
Fixture Efficacy: 31 lm/W

Correlated Color Temperature: 3199K
Δuv: 0.0013

CRI: 90.1 CRI R9 Value: 90.9
CQS: 90.8
TLCI: 85
TM-30-18 Rf: 90.4
TM-30-18 Rg: 107.5
1st Dominant Wavelength: 624 nM
2nd Dominant Wavelength: 527 nM

Spectral Distribution



Tested Color

3199 K
CIE 1931 Coordinates:
X: 0.425 Y: 0.403

Color Temperature

3199 K

Light Quality

CRI: 90.1

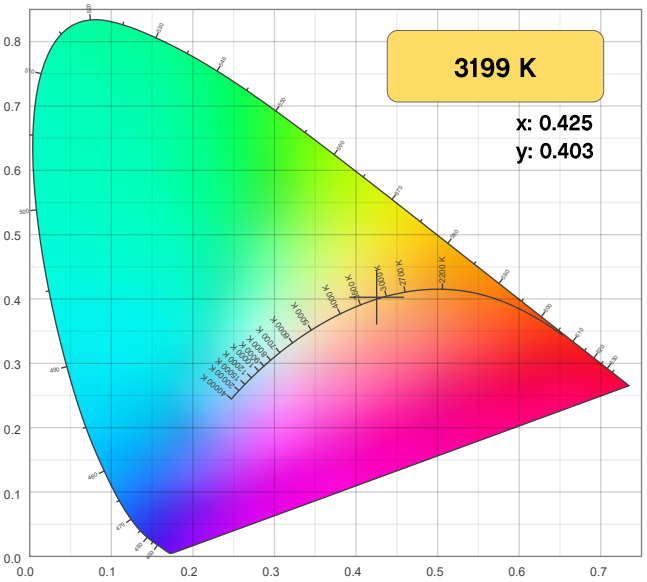
Notes:

Chromaticity Report

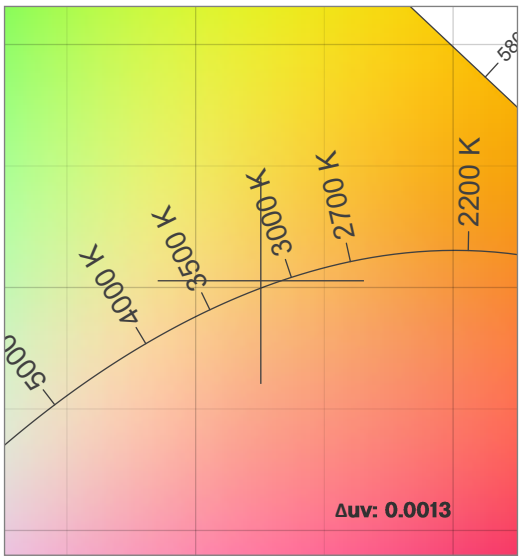
Ovation E-930VW: 3200K

Chromaticity

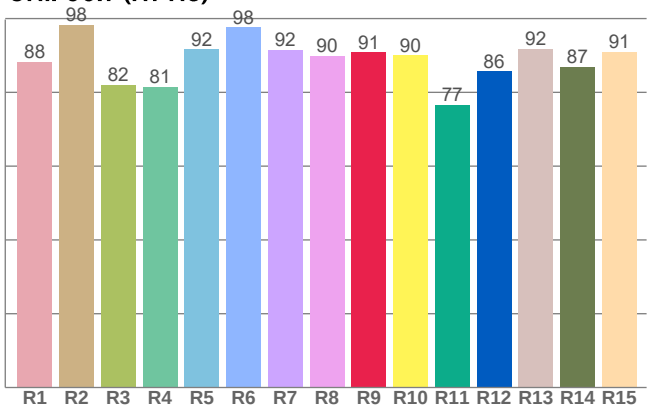
CIE 1931



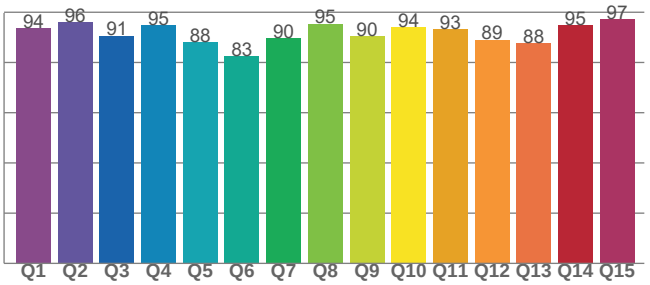
CIE 1931 - Zoom



CRI: 90.1 (R1-R8)



CQS: 90.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3199 K	0.425	0.403

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0013	0.403	0.244

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
90.1	90.9	90.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
85	90.4	107.5

Chromaticity Report

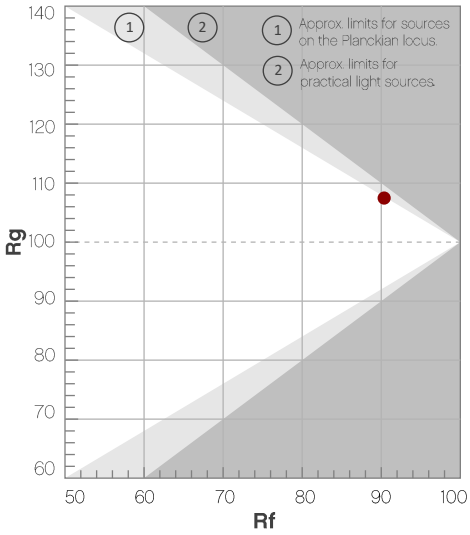
Ovation E-930VW: 3200K

TM-30-18 Details

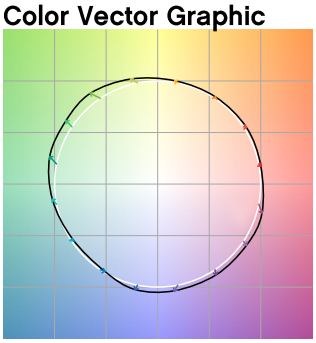
Rf 90.4
Fidelity Index (Rg)

Rg 107.5
Gamut Index (Rg)

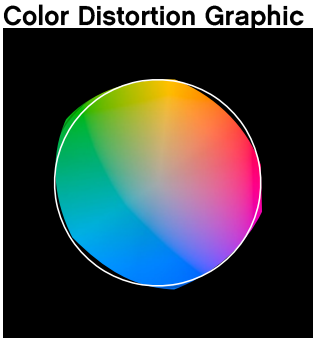
Hue Bin	R_f	Chroma Shift	Hue Shift
1	92	2%	-2%
2	91	2%	-2%
3	93	1%	0%
4	94	2%	3%
5	90	5%	6%
6	84	9%	5%
7	87	8%	-2%
8	85	8%	-6%
9	91	3%	-5%
10	94	-2%	-2%
11	93	-1%	4%
12	89	5%	-2%
13	90	5%	-4%
14	88	5%	-2%
15	89	5%	-1%
16	88	5%	-8%



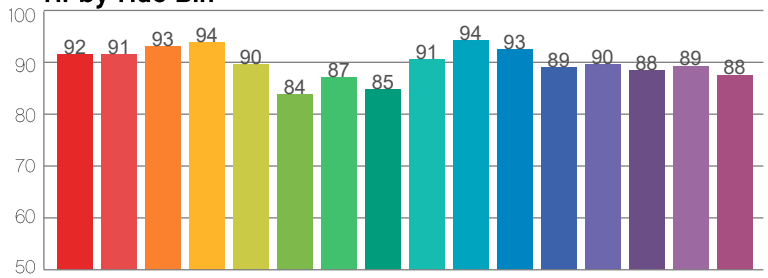
Color Vector Graphic



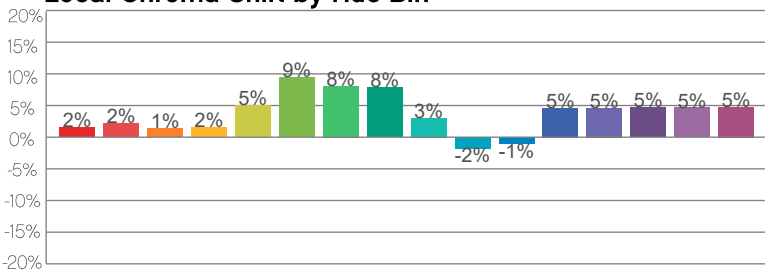
Color Distortion Graphic



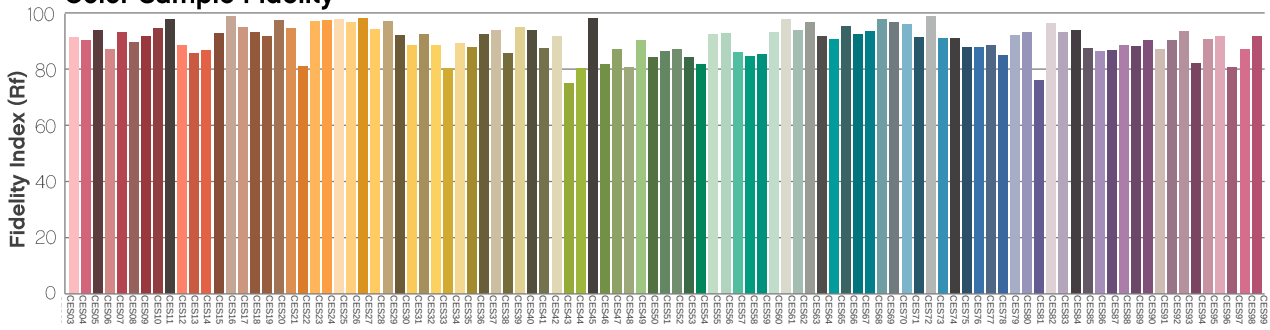
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Ovation E-930VW: 5600K

Report Summary

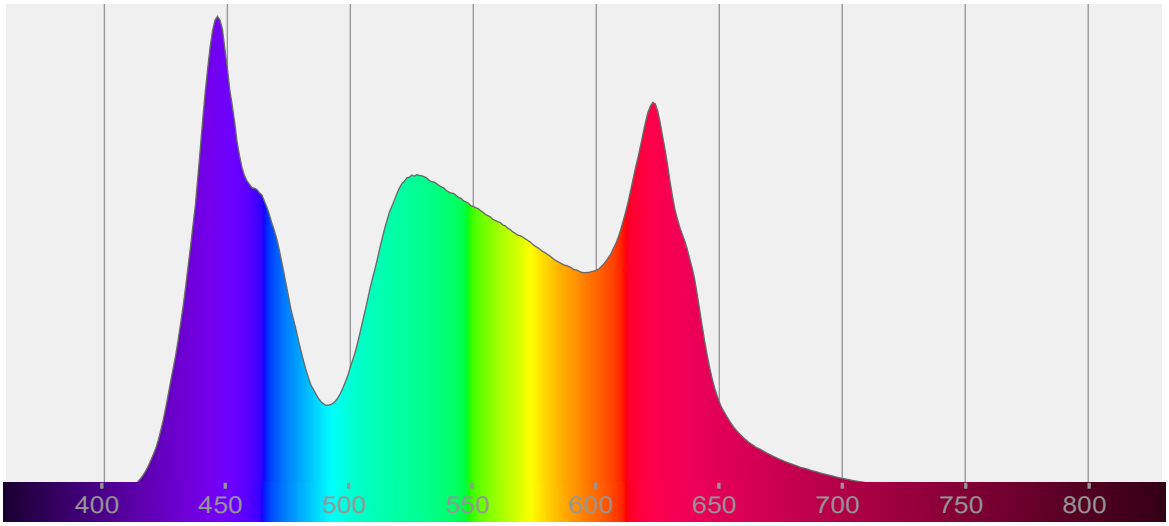
Measurements

Total Lumens: 5733 lm
Peak Intensity: 40729 cd
Fixture Efficacy: 30 lm/W

Correlated Color Temperature: 5601K
Δuv: -0.0056

CRI: 91.1 CRI R9 Value: 83.8
CQS: 87.9
TLCI: 85
TM-30-18 Rf: 87.4
TM-30-18 Rg: 104.0
1st Dominant Wavelength: 446 nM
2nd Dominant Wavelength: 623 nM

Spectral Distribution



Tested Color

5601 K
CIE 1931 Coordinates:
X: 0.330 Y: 0.335

Color Temperature

5601 K

Light Quality

CRI: 91.1

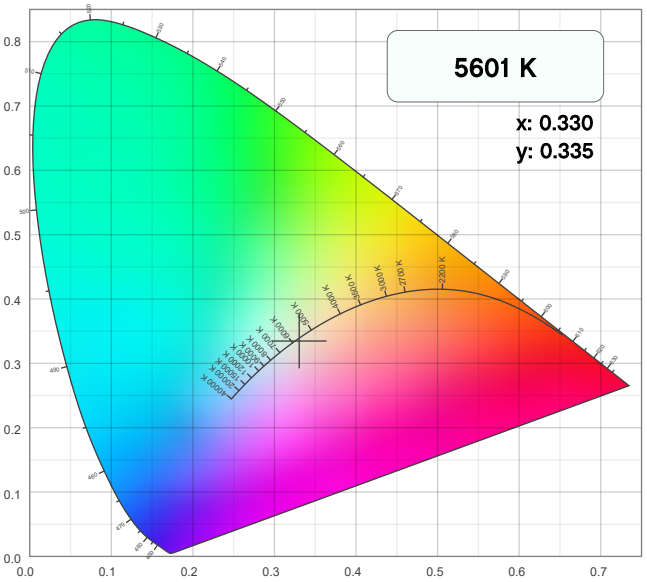
Notes:

Chromaticity Report

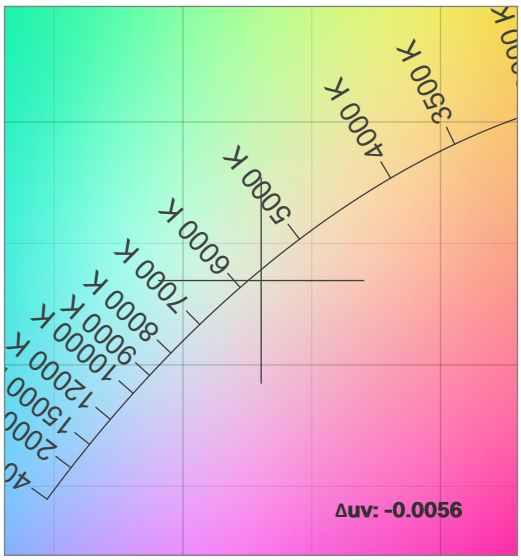
Ovation E-930VW: 5600K

Chromaticity

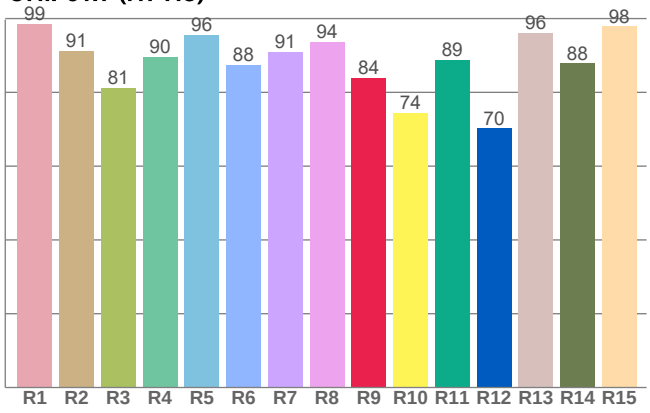
CIE 1931



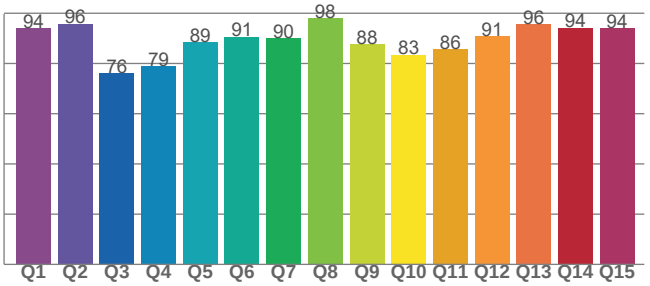
CIE 1931 - Zoom



CRI: 91.1 (R1-R8)



CQS: 87.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5601 K	0.330	0.335

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0056	0.335	0.208

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
91.1	83.8	87.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
85	87.4	104.0

Chromaticity Report

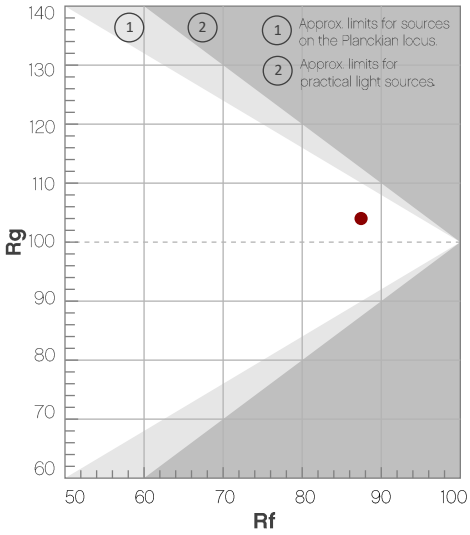
Ovation E-930VW: 5600K

TM-30-18 Details

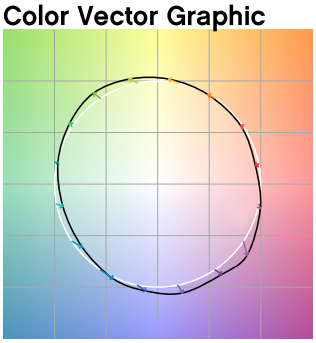
Rf 87.4
Fidelity Index (Rg)

Rg 104.0
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	92	-4%	-1%
2	94	-2%	2%
3	86	-1%	8%
4	85	2%	9%
5	86	5%	7%
6	88	8%	3%
7	93	4%	-3%
8	94	-1%	-2%
9	92	-6%	3%
10	82	-5%	10%
11	76	0%	15%
12	85	4%	9%
13	89	8%	3%
14	86	7%	3%
15	84	10%	-9%
16	93	2%	-4%

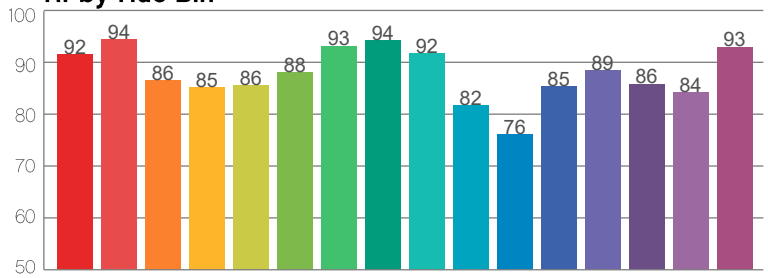


Color Vector Graphic

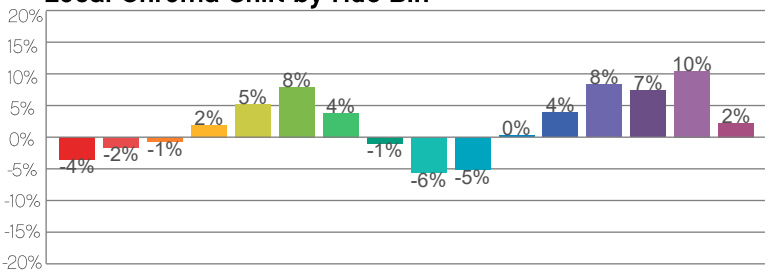


Color Distortion Graphic

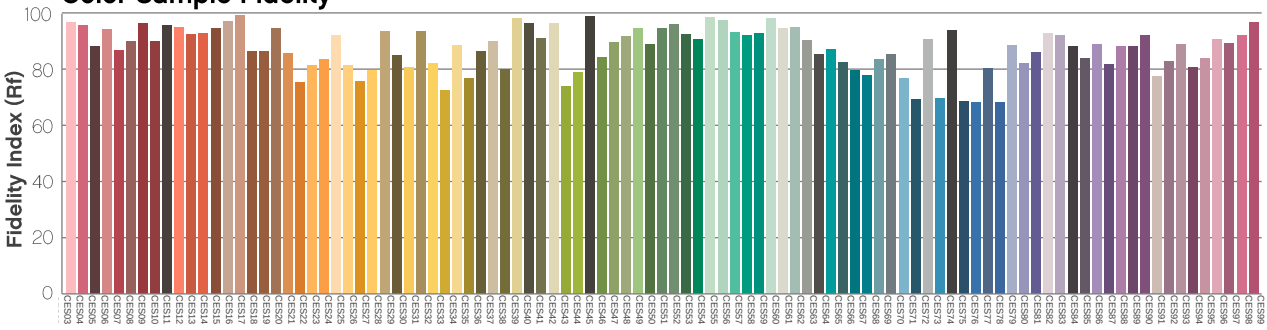
Rf by Hue Bin



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.