

PHOTOMETRICS REPORT
OVATION
E-160W W



*LENS TUBE SOLD SEPARATELY

Table of Contents

1. Testing Process	1
2. Photometric Reports	2
50° Lens – Full Power	2
Report Summary	2
Overall Measurement	2
Beam Details	3
Polar Diagrams	4
36° Lens – Full Power	5
Report Summary	5
Overall Measurement	5
Beam Details	6
Polar Diagrams	7
26° Lens – Full Power	8
Report Summary	8
Overall Measurement	8
Beam Details	9
Polar Diagrams	10
19° Lens – Full Power	11
Report Summary	11
Overall Measurement	11
Beam Details	12
Polar Diagrams	13
14° Lens – Full Power	14
Report Summary	14
Overall Measurement	14
Beam Details	15
Polar Diagrams	16

10° Lens – Full Power	17
Report Summary	17
Overall Measurement	17
Beam Details	18
Polar Diagrams	19
5° Lens – Full Power	20
Report Summary	20
Overall Measurement	20
Beam Details	21
Polar Diagrams	22
25–50% Zoom Lens – 50°– Full Power	23
Report Summary	23
Overall Measurement	23
Beam Details	24
Polar Diagrams	25
25–50% Zoom Lens – 25°– Full Power	26
Report Summary	26
Overall Measurement	26
Beam Details	27
Polar Diagrams	28
15–30% Zoom Lens – 30°– Full Power	29
Report Summary	29
Overall Measurement	29
Beam Details	30
Polar Diagrams	31
15–30% Zoom Lens – 15°– Full Power	32
Report Summary	32
Overall Measurement	32
Beam Details	33
Polar Diagrams	34

3. Chromaticity Reports	35
3200K	35
Report Summary	35
Chromaticity	36
TM-30-18 Details	37
4. Contact Us	38

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-160WW: 50deg Lens, Full Power

Report Summary

Output

Total Lumens: 6465 lm
Peak Intensity: 17588 cd
Illuminance @ 5m: 700 lux
Fixture Efficacy: 57 lm/W

Optical

Horizontal Beam Angle (50%): 37.1°
Vertical Beam Angle (50%): 37.2°
Horizontal Field Angle (10%): 53°
Vertical Field Angle (10%): 53°
Horizontal Cutoff Angle (3%): 55.7°
Vertical Cutoff Angle (3%): 55.1°

Conditions

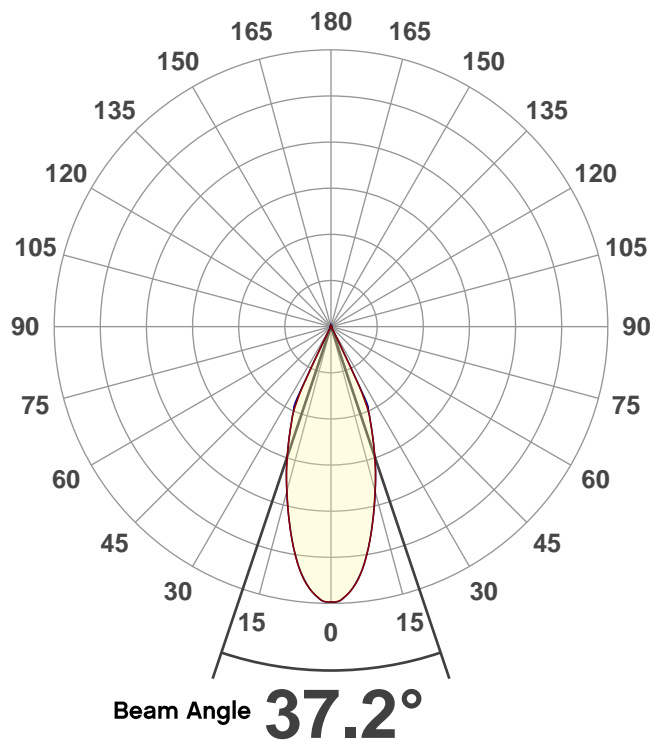
AC Supply: 120 V, 60 Hz
Power: 114.49 W
Current: 0.951 A
Power Factor: 0.99



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 11/1/2019 to LM-63-2002 Standards.

Overall Measurement

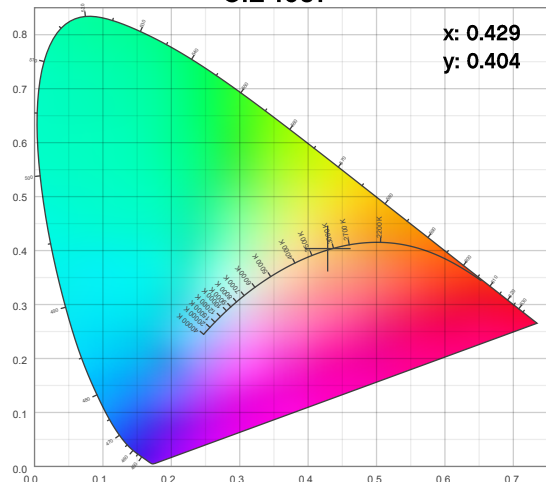
Angular Beam Distribution



Spectral Distribution



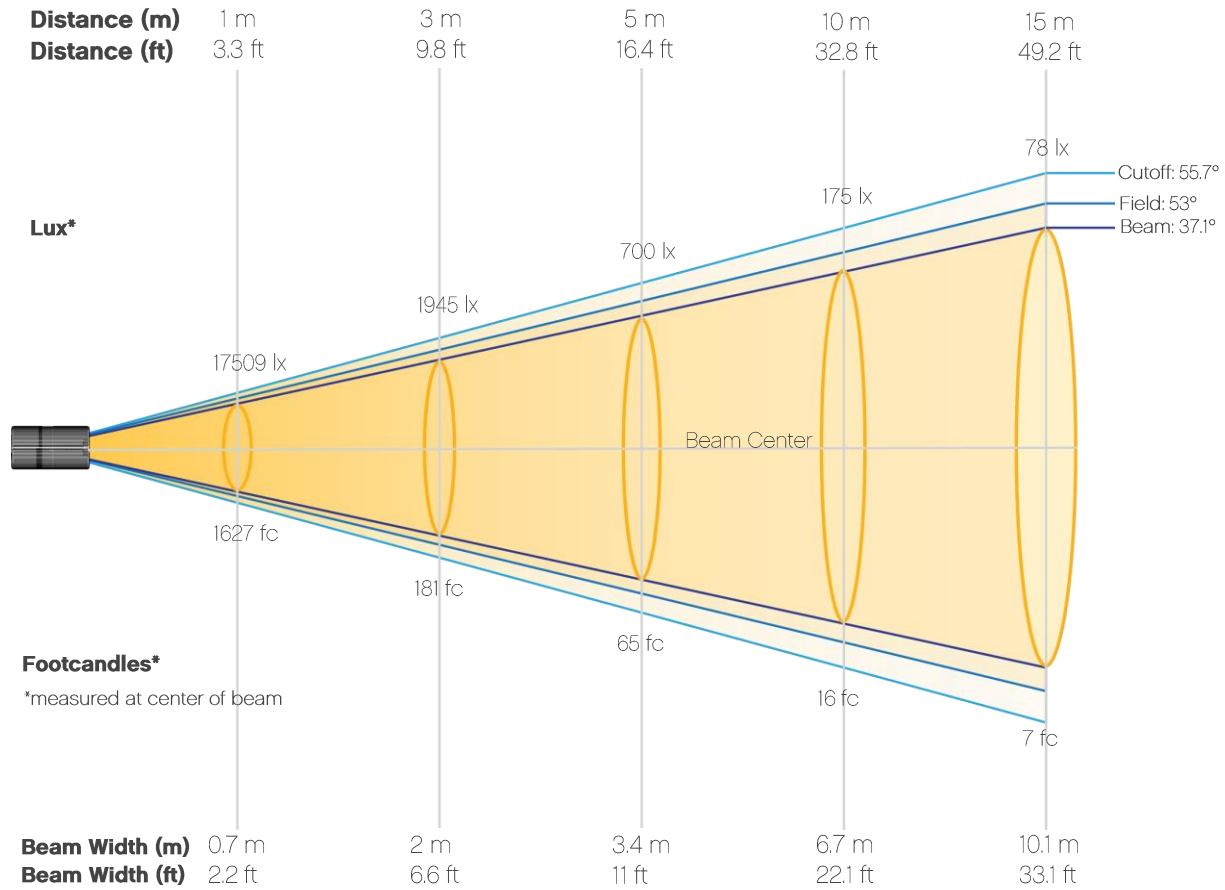
CIE 1931



Photometric Report

Ovation E-160WW: 50deg Lens, Full Power

Beam Details

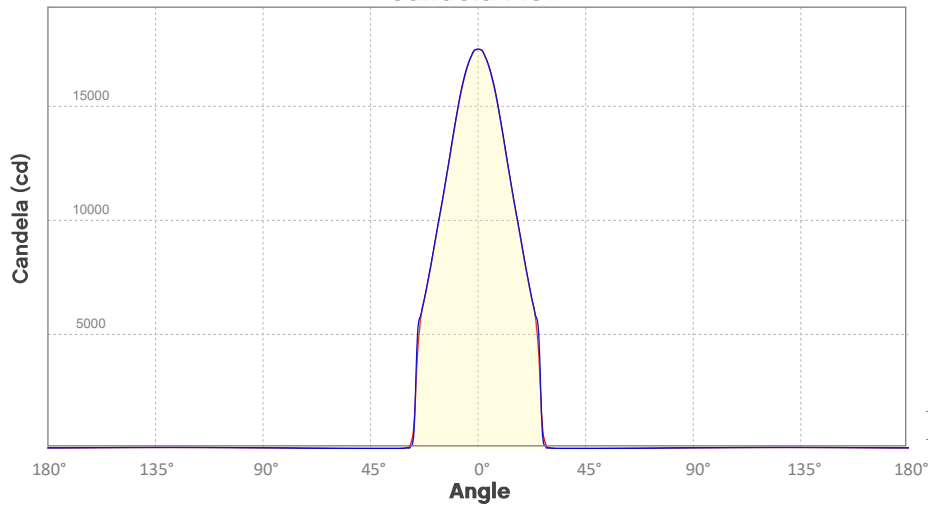


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	17509	4377	1945	1094	700	486	357	274	216	175
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	145	122	104	89	78	68	61	54	49	44
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1627	407	181	102	65	45	33	25	20	16
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	13	11	10	8	7	6	6	5	5	4

Photometric Report

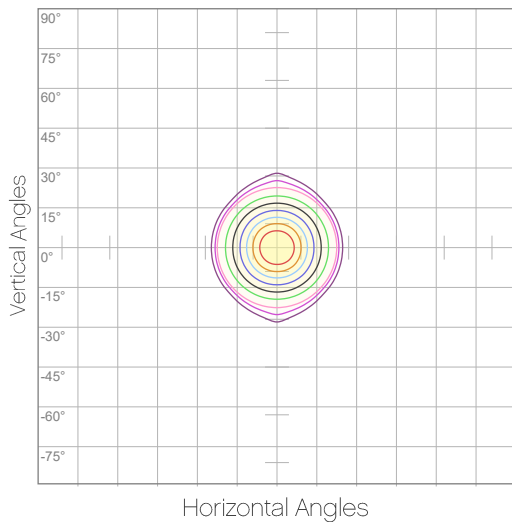
Ovation E-160WW: 50deg Lens, Full Power
Candela Plot



Beam Angle (50%): 37.2°
Field Angle (10%): 53°
Cutoff Angle (3%): 54.8°

— Horizontal Distribution
— Vertical Distribution

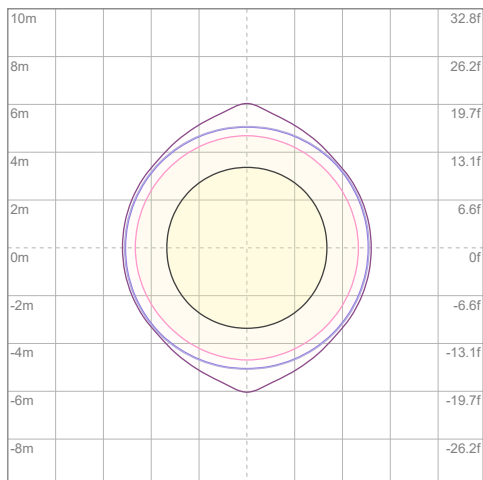
Polar Diagrams



iso-candela Diagram

10%	1751 cd
20%	3502 cd
30%	5253 cd
40%	7003 cd
50%	8754 cd
60%	10505 cd
70%	12256 cd
80%	14007 cd
90%	15758 cd

Conditions:
Number of c-planes: 8
Candela at center: 17509 cd



iso-illuminance Diagram

3%	5.25 lx
5%	8.75 lx
10%	17.5 lx
30%	52.5 lx
50%	87.5 lx

Conditions:
Number of c-planes: 8
Lux at center: 175 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-160WW: 36deg Lens, Full Power

Report Summary

Output

Total Lumens: 6697 lm
Peak Intensity: 42029 cd
Illuminance @ 5m: 1676 lux
Fixture Efficacy: 59 lm/W

Optical

Horizontal Beam Angle (50%): 24.3°
Vertical Beam Angle (50%): 24.6°
Horizontal Field Angle (10%): 35.4°
Vertical Field Angle (10%): 35.2°
Horizontal Cutoff Angle (3%): 36.7°
Vertical Cutoff Angle (3%): 35.8°

Conditions

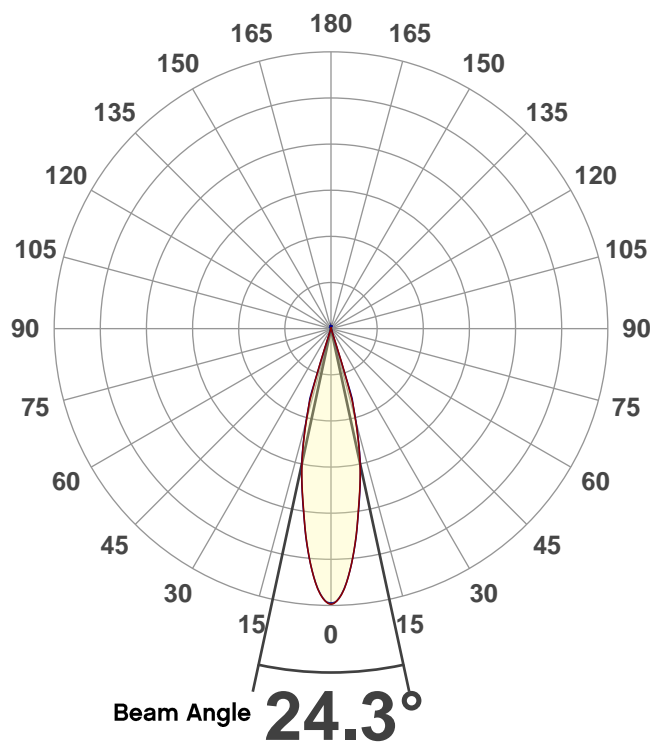
AC Supply: 121 V, 60 Hz
Power: 114.49 W
Current: 0.946 A
Power Factor: 0.99



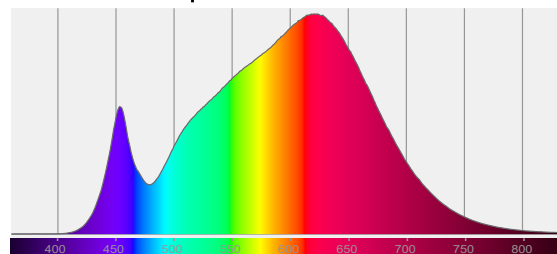
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 11/1/2019 to LM-63-2002 Standards.

Overall Measurement

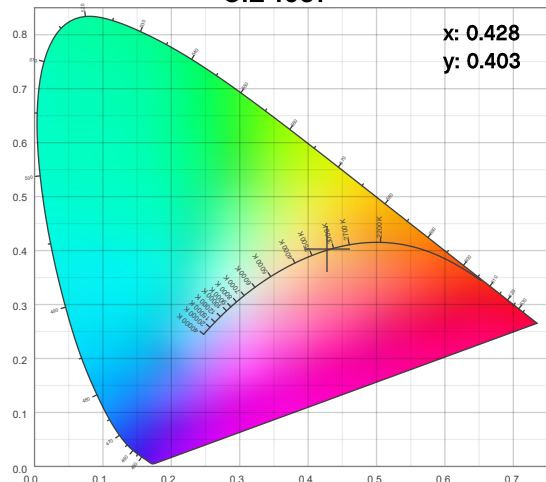
Angular Beam Distribution



Spectral Distribution



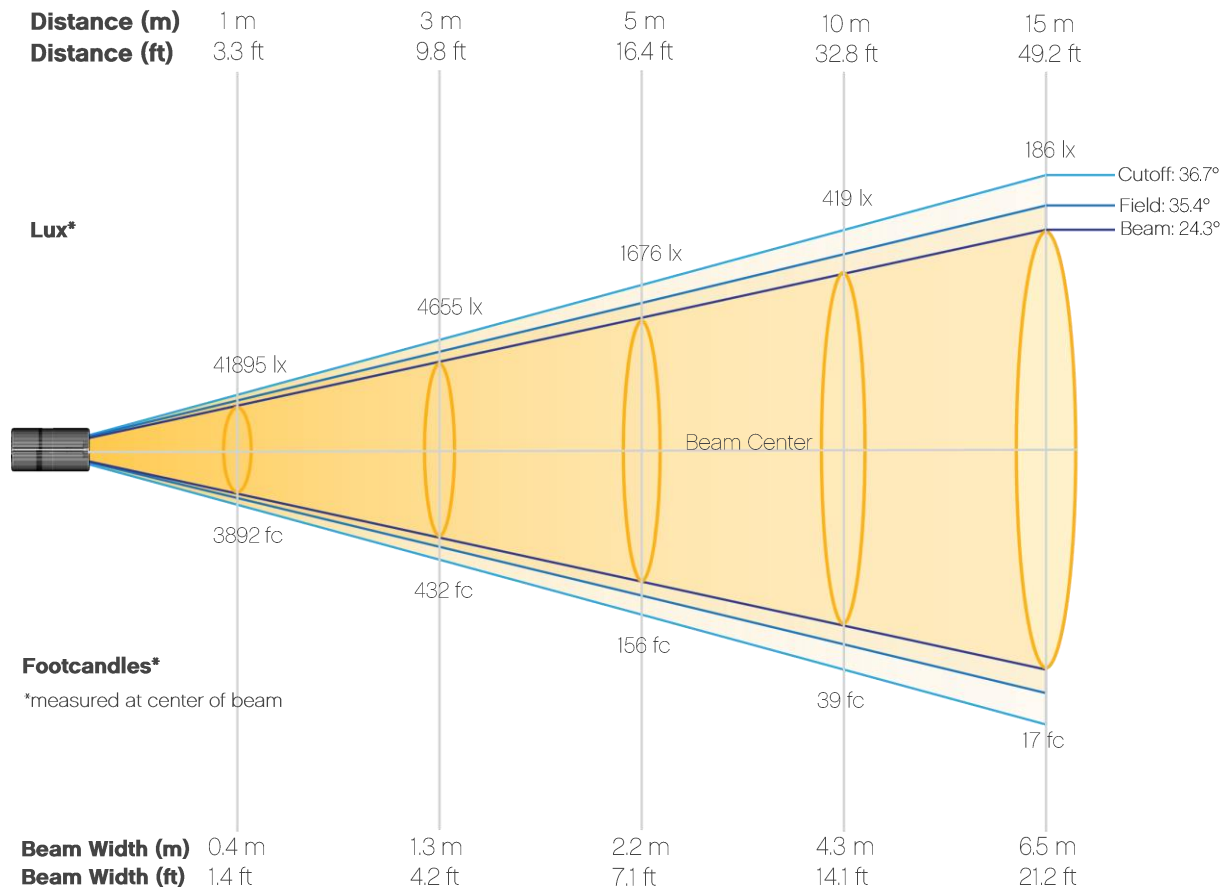
CIE 1931



Photometric Report

Ovation E-160WW: 36deg Lens, Full Power

Beam Details

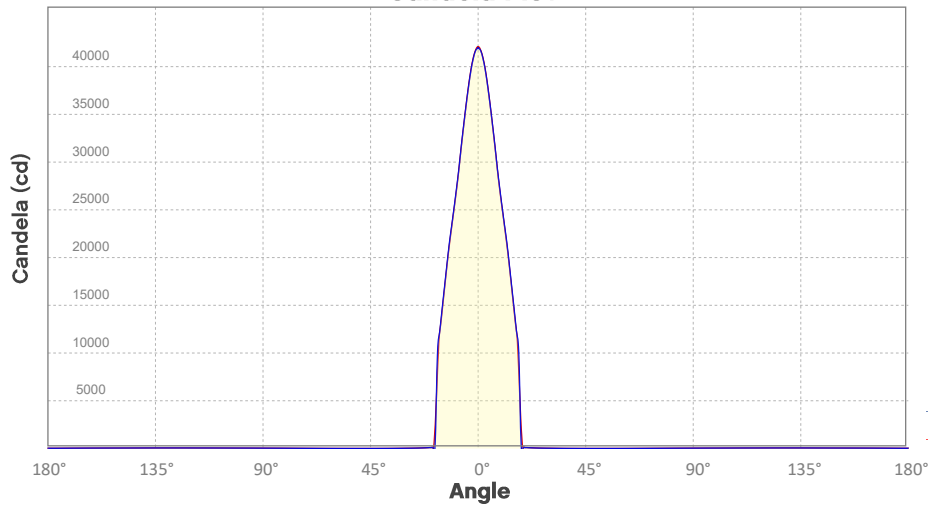


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	41895	10474	4655	2618	1676	1164	855	655	517	419
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	346	291	248	214	186	164	145	129	116	105
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	3892	973	432	243	156	108	79	61	48	39
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	32	27	23	20	17	15	13	12	11	10

Photometric Report

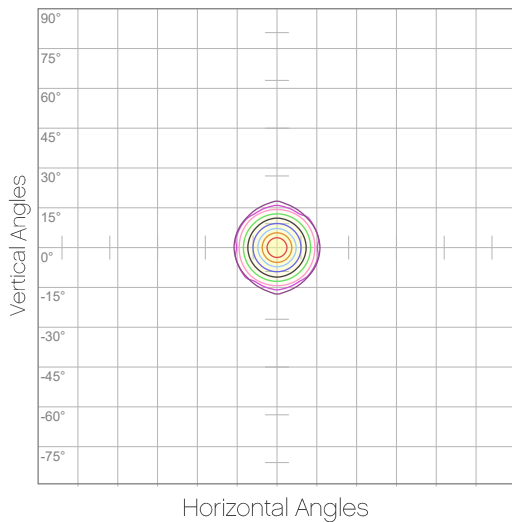
Ovation E-160WW: 36deg Lens, Full Power
Candela Plot



Beam Angle (50%): 24.3°
Field Angle (10%): 35.2°
Cutoff Angle (3%): 36.4°

— Horizontal Distribution
— Vertical Distribution

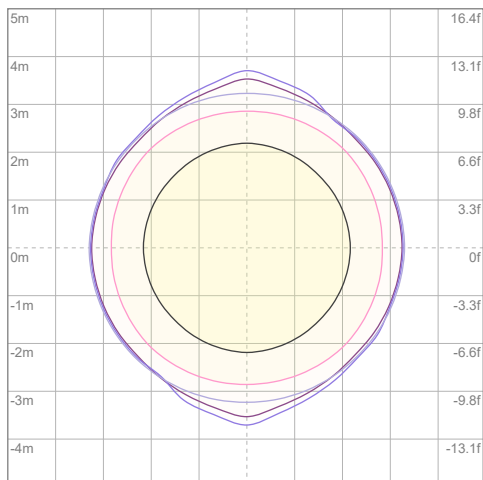
Polar Diagrams



iso-candela Diagram

10%	4190 cd
20%	8379 cd
30%	12569 cd
40%	16758 cd
50%	20948 cd
60%	25137 cd
70%	29327 cd
80%	33516 cd
90%	37706 cd

Conditions:
Number of c-planes: 8
Candela at center: 41895 cd



iso-illuminance Diagram

3%	12.6 lx
5%	20.9 lx
10%	41.9 lx
30%	126 lx
50%	209 lx

Conditions:
Number of c-planes: 8
Lux at center: 419 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-160WW: 26deg Lens, Full Power

Report Summary

Output

Total Lumens: 6657 lm
Peak Intensity: 69399 cd
Illuminance @ 5m: 2769 lux
Fixture Efficacy: 59 lm/W

Optical

Horizontal Beam Angle (50%): 18.5°
Vertical Beam Angle (50%): 18.7°
Horizontal Field Angle (10%): 27.3°
Vertical Field Angle (10%): 26.9°
Horizontal Cutoff Angle (3%): 29°
Vertical Cutoff Angle (3%): 28.6°

Conditions

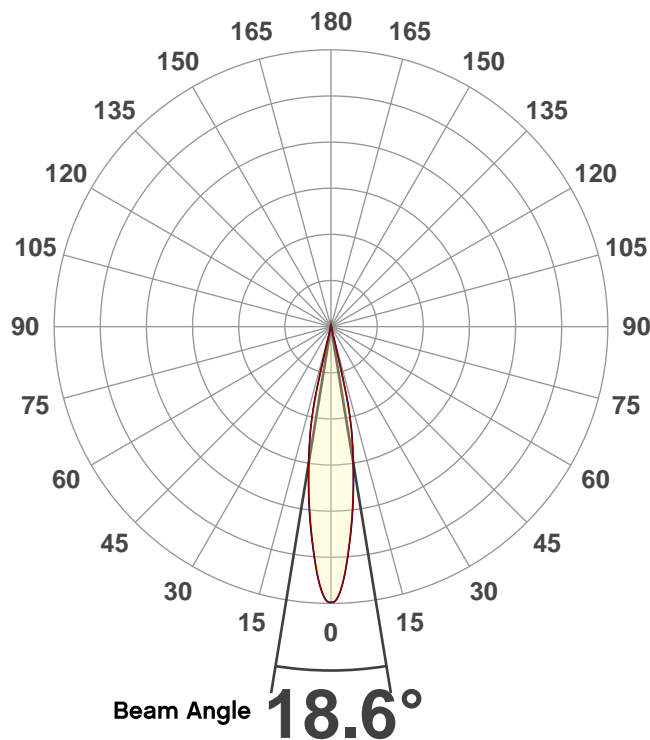
AC Supply: 121 V, 60 Hz
Power: 114.3 W
Current: 0.944 A
Power Factor: 0.99



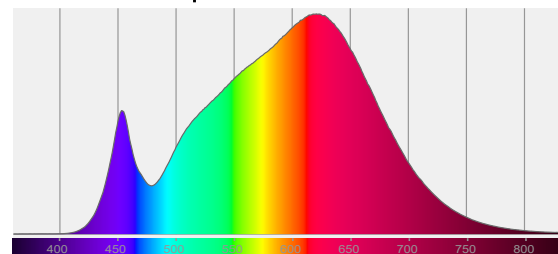
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 11/1/2019 to LM-63-2002 Standards.

Overall Measurement

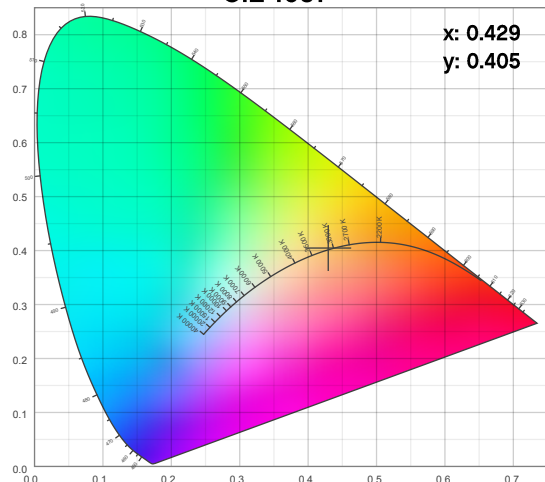
Angular Beam Distribution



Spectral Distribution



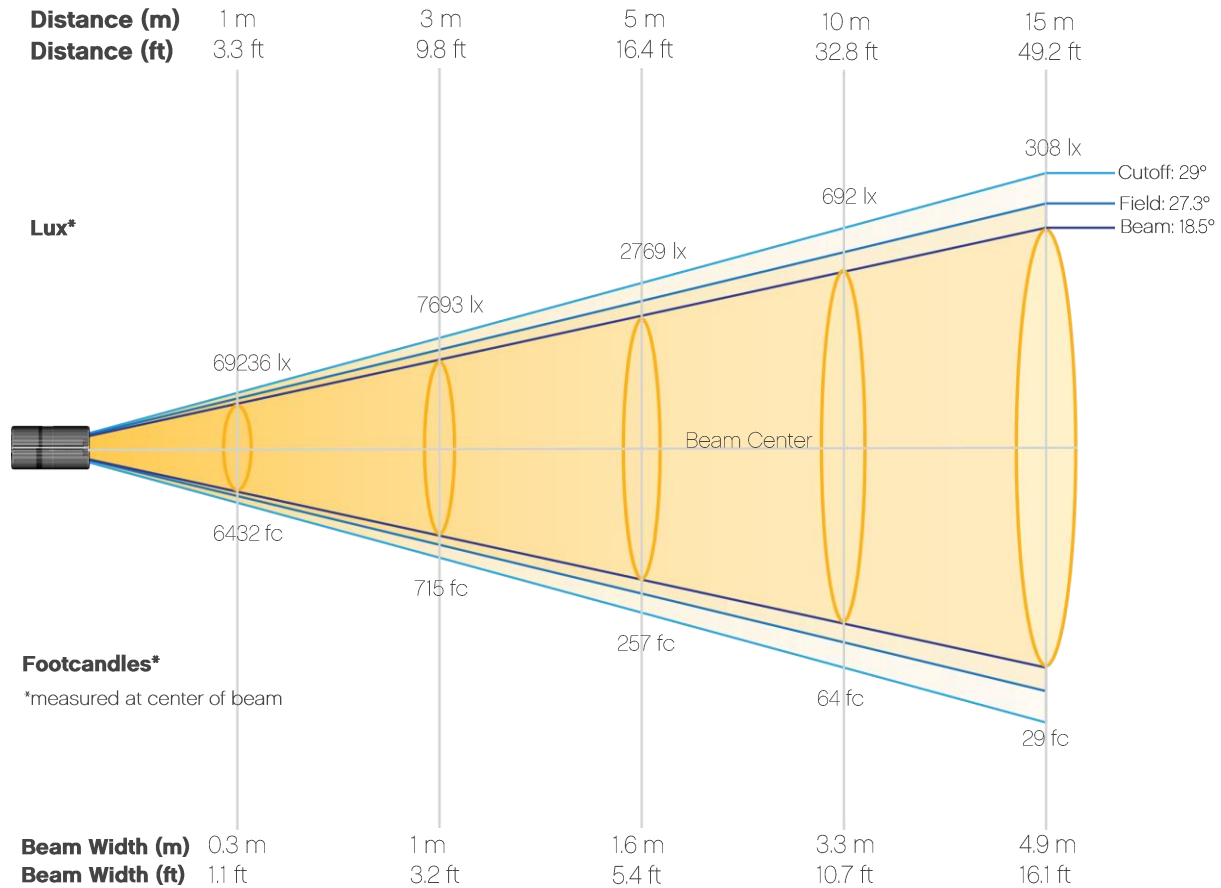
CIE 1931



Photometric Report

Ovation E-160WW: 26deg Lens, Full Power

Beam Details

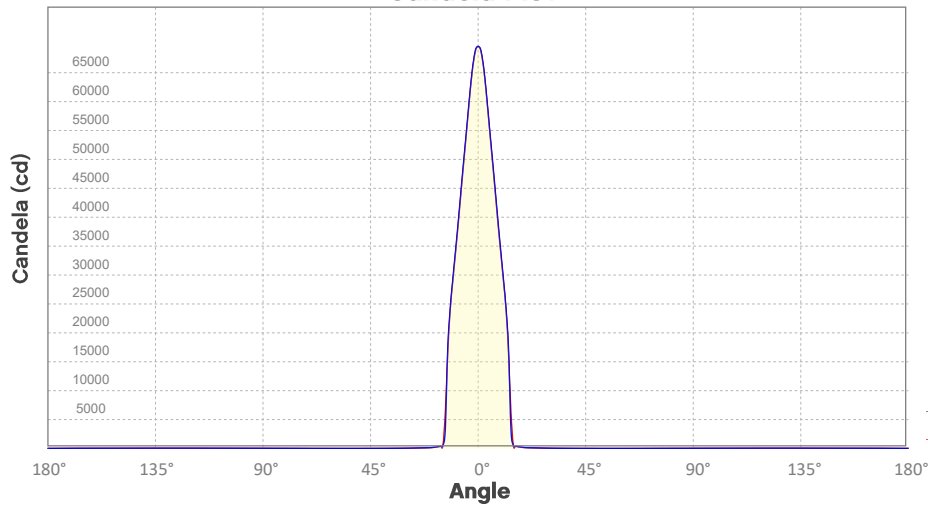


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	69236	17309	7693	4327	2769	1923	1413	1082	855	692
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	572	481	410	353	308	270	240	214	192	173
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	6432	1608	715	402	257	179	131	101	79	64
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	53	45	38	33	29	25	22	20	18	16

Photometric Report

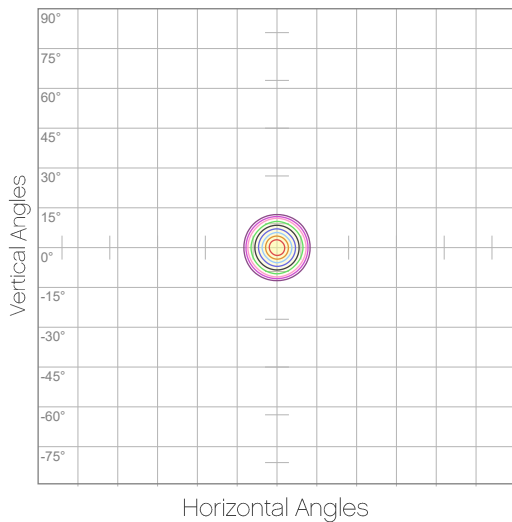
Ovation E-160WW: 26deg Lens, Full Power
Candela Plot



Beam Angle (50%): 18.6°
Field Angle (10%): 27.1°
Cutoff Angle (3%): 28.6°

— Horizontal Distribution
— Vertical Distribution

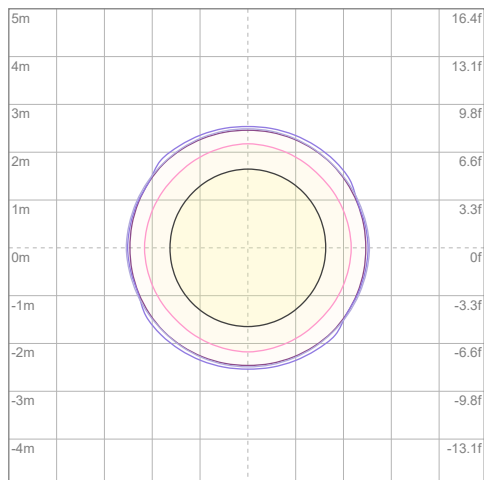
Polar Diagrams



iso-candela Diagram

10%	6924 cd
20%	13847 cd
30%	20771 cd
40%	27694 cd
50%	34618 cd
60%	41541 cd
70%	48465 cd
80%	55388 cd
90%	62312 cd

Conditions:
Number of c-planes: 8
Candela at center: 69236 cd



iso-illuminance Diagram

3%	20.8 lx
5%	34.6 lx
10%	69.2 lx
30%	208 lx
50%	346 lx

Conditions:
Number of c-planes: 8
Lux at center: 692 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-160WW: 19deg Lens, Full Power

Report Summary

Output

Total Lumens: 6505 lm
Peak Intensity: 131784 cd
Illuminance @ 5m: 5266 lux
Fixture Efficacy: 57 lm/W

Optical

Horizontal Beam Angle (50%): 13.3°
Vertical Beam Angle (50%): 13.3°
Horizontal Field Angle (10%): 19.6°
Vertical Field Angle (10%): 19.6°
Horizontal Cutoff Angle (3%): 20.6°
Vertical Cutoff Angle (3%): 20.3°

Conditions

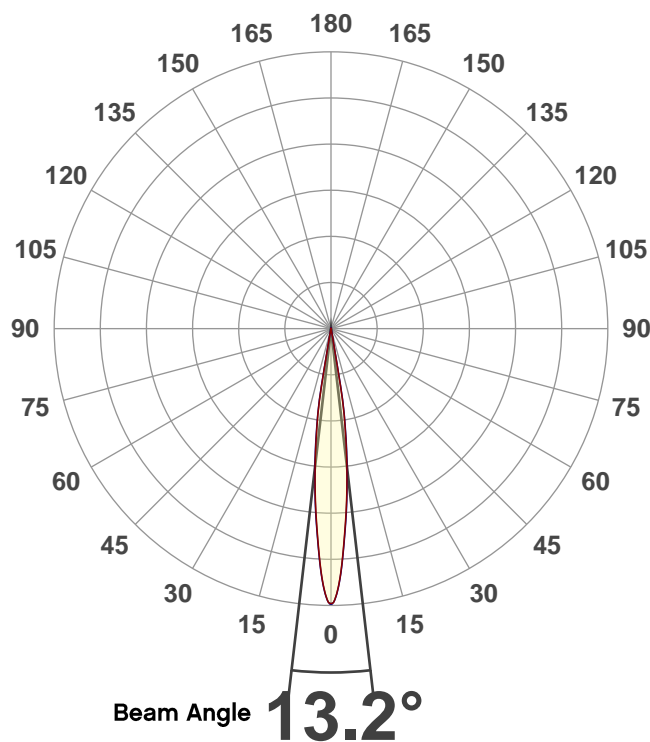
AC Supply: 119 V, 60 Hz
Power: 114.61 W
Current: 0.960 A
Power Factor: 0.99



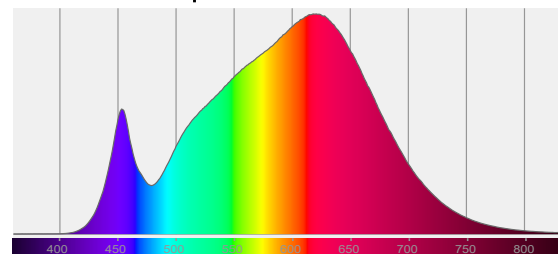
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 11/1/2019 to LM-63-2002 Standards.

Overall Measurement

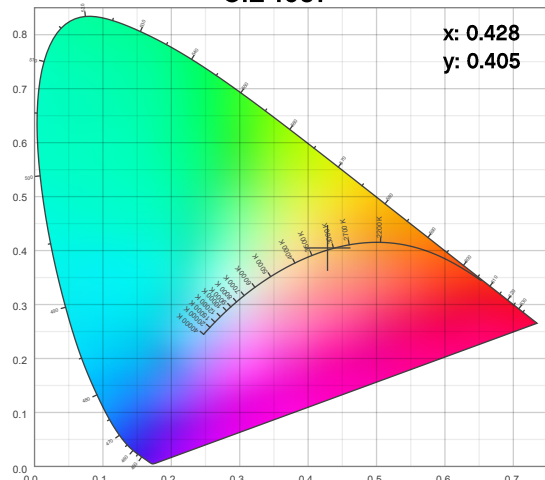
Angular Beam Distribution



Spectral Distribution



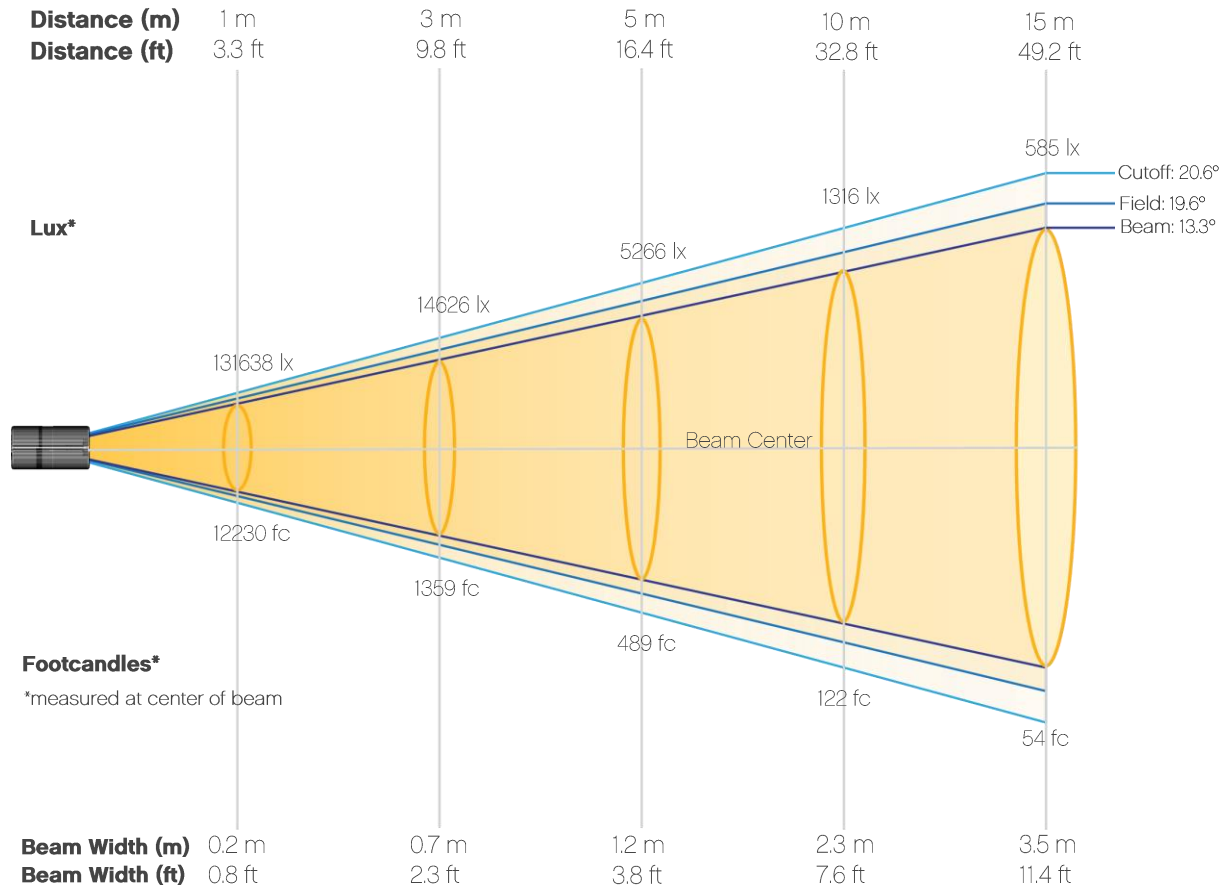
CIE 1931



Photometric Report

Ovation E-160WW: 19deg Lens, Full Power

Beam Details

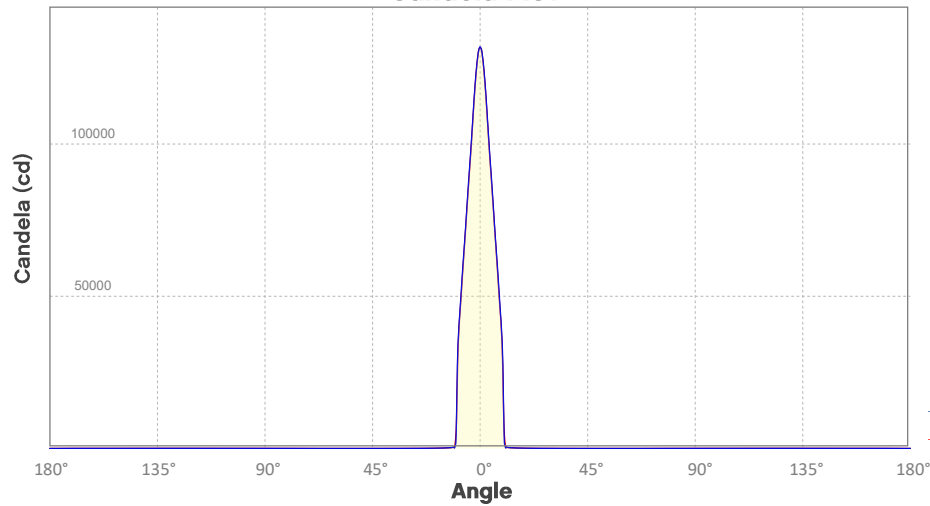


Beam luminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	131638	32910	14626	8227	5266	3657	2686	2057	1625	1316
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1088	914	779	672	585	514	455	406	365	329
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	12230	3057	1359	764	489	340	250	191	151	122
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	101	85	72	62	54	48	42	38	34	31

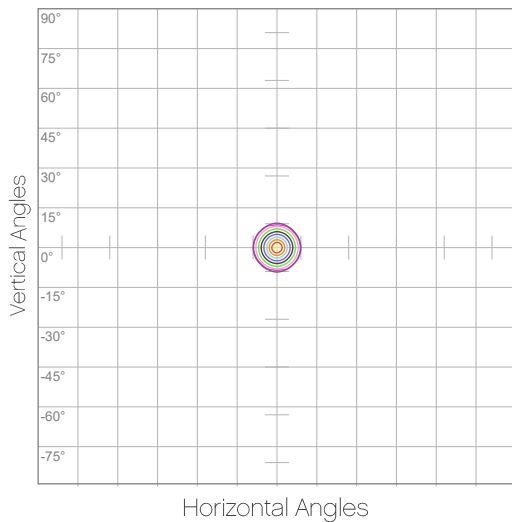
Photometric Report

Ovation E-160WW: 19deg Lens, Full Power
Candela Plot



Beam Angle (50%): 13.2°
Field Angle (10%): 19.5°
Cutoff Angle (3%): 20.3°

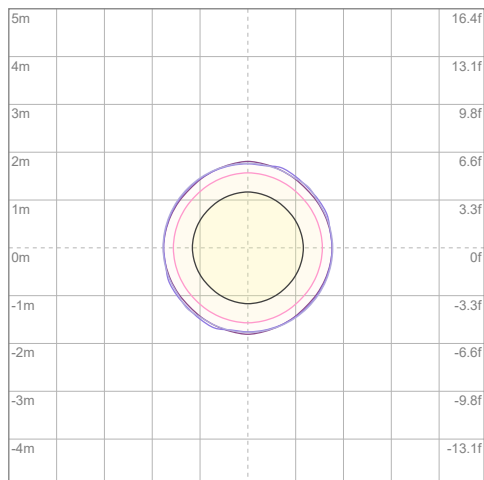
Polar Diagrams



iso-candela Diagram

10%	13164 cd
20%	26328 cd
30%	39491 cd
40%	52655 cd
50%	65819 cd
60%	78983 cd
70%	92147 cd
80%	105311 cd
90%	118474 cd

Conditions:
Number of c-planes: 8
Candela at center: 131638 cd



iso-illuminance Diagram

3%	39.5 lx
5%	65.8 lx
10%	132 lx
30%	395 lx
50%	658 lx

Conditions:
Number of c-planes: 8
Lux at center: 1316 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-160WW: 14deg Lens, Full Power

Report Summary

Output

Total Lumens: 6371 lm
Peak Intensity: 229526 cd
Illuminance @ 5m: 9181 lux
Fixture Efficacy: 60 lm/W

Optical

Horizontal Beam Angle (50%): 9.3°
Vertical Beam Angle (50%): 9.3°
Horizontal Field Angle (10%): 15.7°
Vertical Field Angle (10%): 15.7°
Horizontal Cutoff Angle (3%): 16.7°
Vertical Cutoff Angle (3%): 16.7°

Conditions

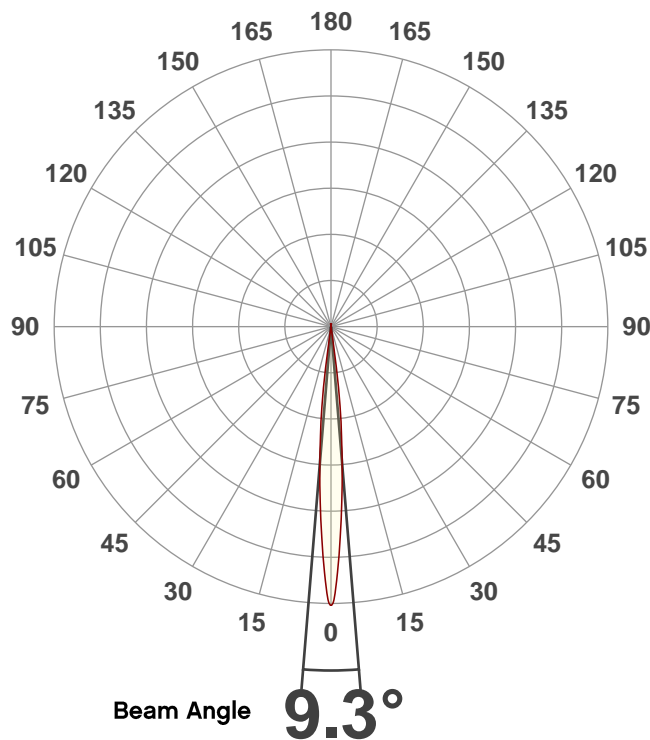
AC Supply: 119 V, 60 Hz
Power: 107.74 W
Current: 0.904 A
Power Factor: 0.99



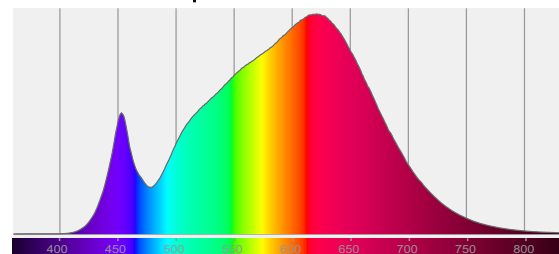
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/5/2020 to LM-63-2002 Standards.

Overall Measurement

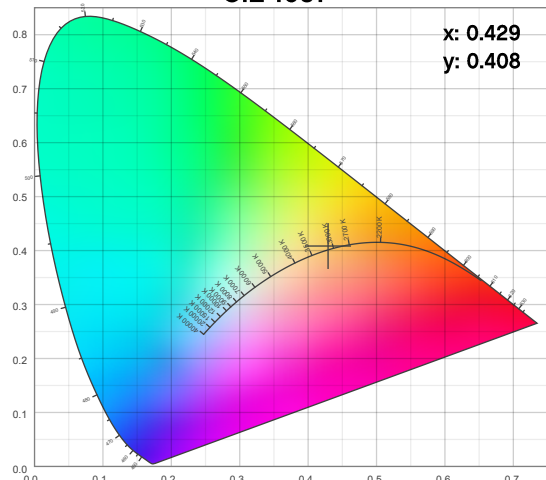
Angular Beam Distribution



Spectral Distribution



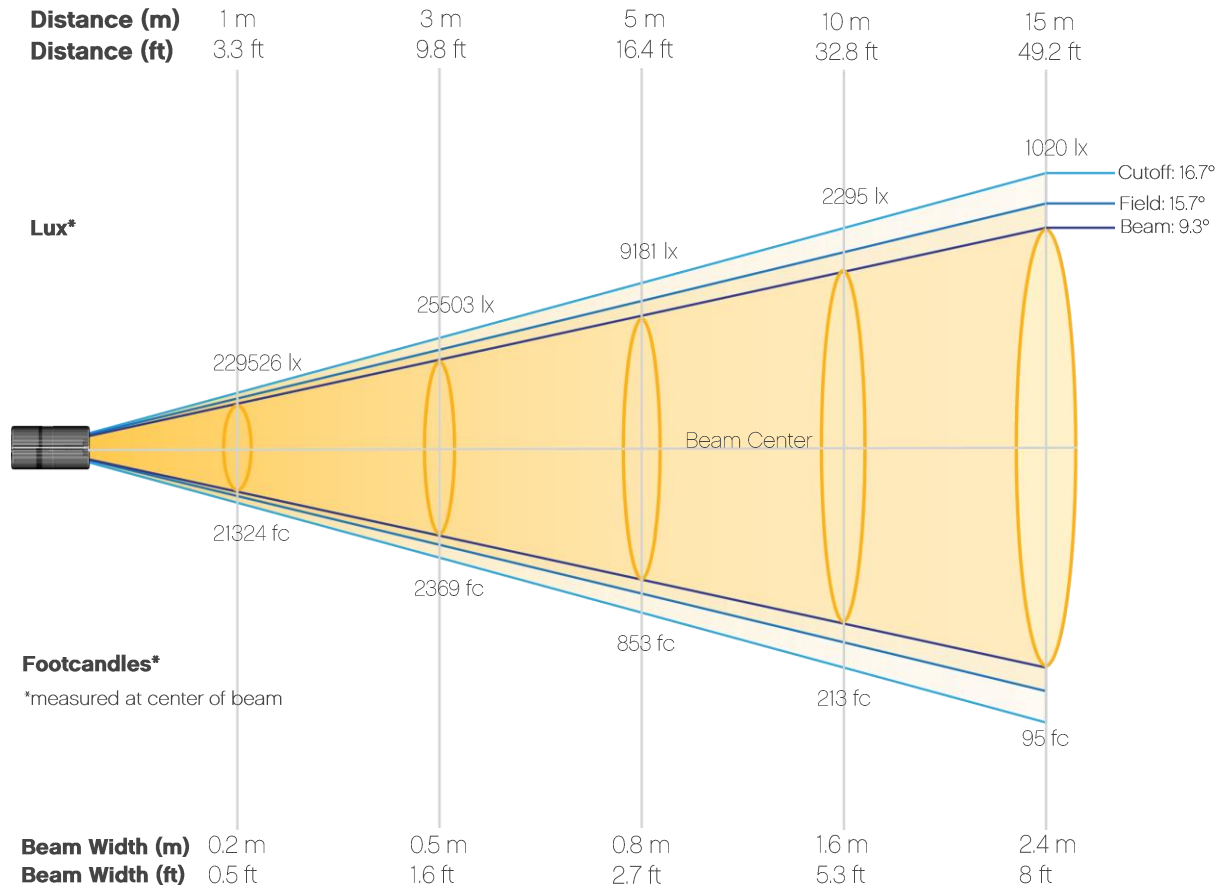
CIE 1931



Photometric Report

Ovation E-160WW: 14deg Lens, Full Power

Beam Details

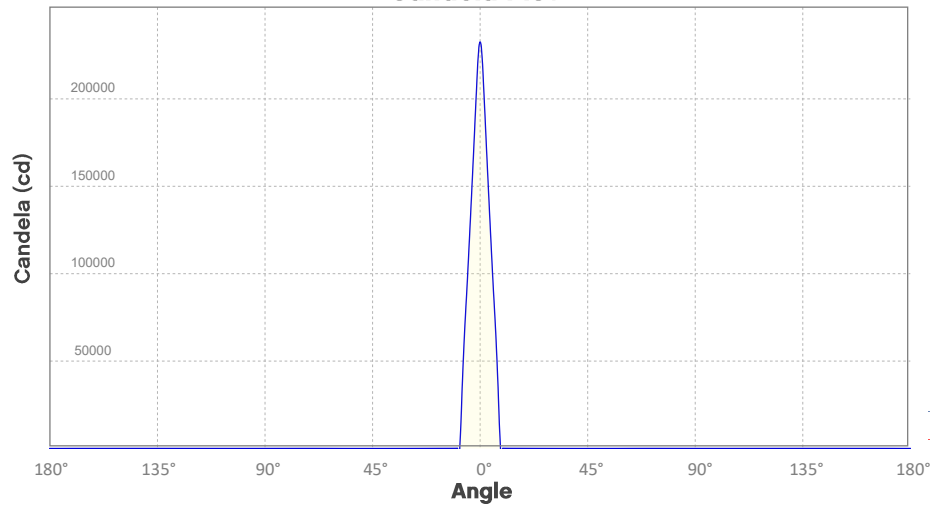


Beam luminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	229526	57381	25503	14345	9181	6376	4684	3586	2834	2295
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1897	1594	1358	1171	1020	897	794	708	636	574
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	21324	5331	2369	1333	853	592	435	333	263	213
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	176	148	126	109	95	83	74	66	59	53

Photometric Report

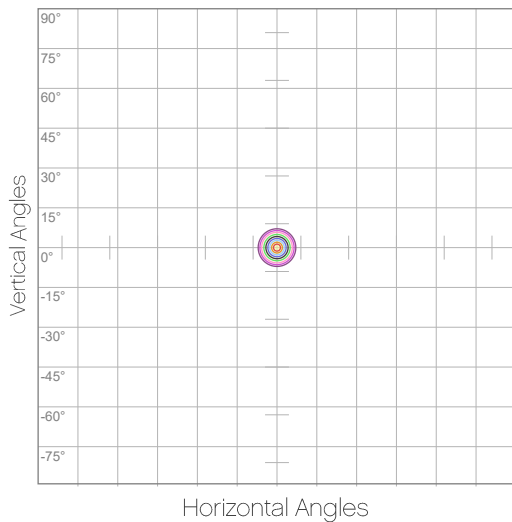
Ovation E-160WW: 14deg Lens, Full Power
Candela Plot



Beam Angle (50%): 9.3°
Field Angle (10%): 15.7°
Cutoff Angle (3%): 16.7°

— Horizontal Distribution
— Vertical Distribution

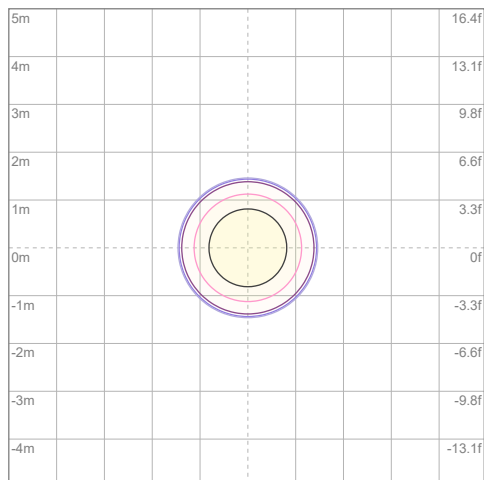
Polar Diagrams



iso-candela Diagram

10%	22953 cd
20%	45905 cd
30%	68858 cd
40%	91810 cd
50%	114763 cd
60%	137716 cd
70%	160668 cd
80%	183621 cd
90%	206573 cd

Conditions:
Number of c-planes: 2
Candela at center: 229526 cd



iso-illuminance Diagram

3%	68.9 lx
5%	115 lx
10%	230 lx
30%	689 lx
50%	1148 lx

Conditions:
Number of c-planes: 2
Lux at center: 2295 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-160WW: 10deg Lens, Full Power

Report Summary

Output

Total Lumens: 5979 lm
Peak Intensity: 427920 cd
Illuminance @ 5m: 17117 lux
Fixture Efficacy: 56 lm/W

Optical

Horizontal Beam Angle (50%): 6.2°
Vertical Beam Angle (50%): 6.2°
Horizontal Field Angle (10%): 11.2°
Vertical Field Angle (10%): 11.2°
Horizontal Cutoff Angle (3%): 12.8°
Vertical Cutoff Angle (3%): 12.8°

Conditions

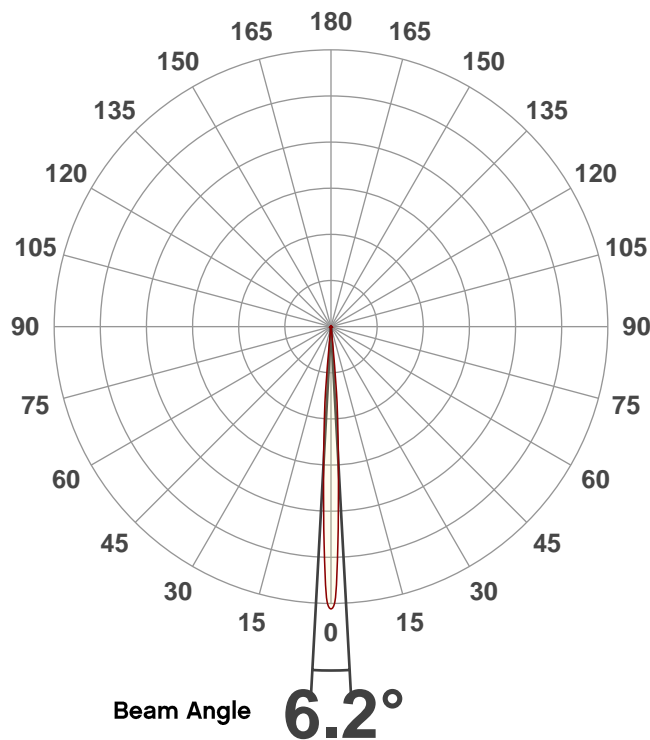
AC Supply: 119 V, 60 Hz
Power: 107.29 W
Current: 0.900 A
Power Factor: 0.99



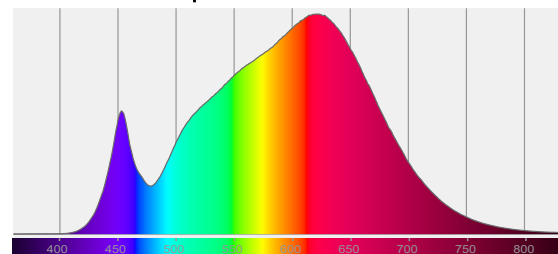
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/5/2020 to LM-63-2002 Standards.

Overall Measurement

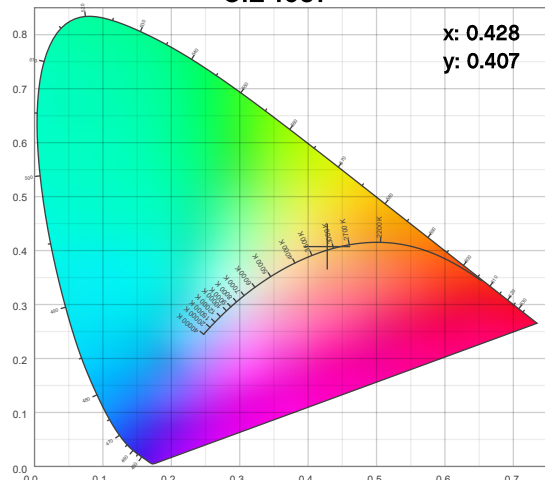
Angular Beam Distribution



Spectral Distribution



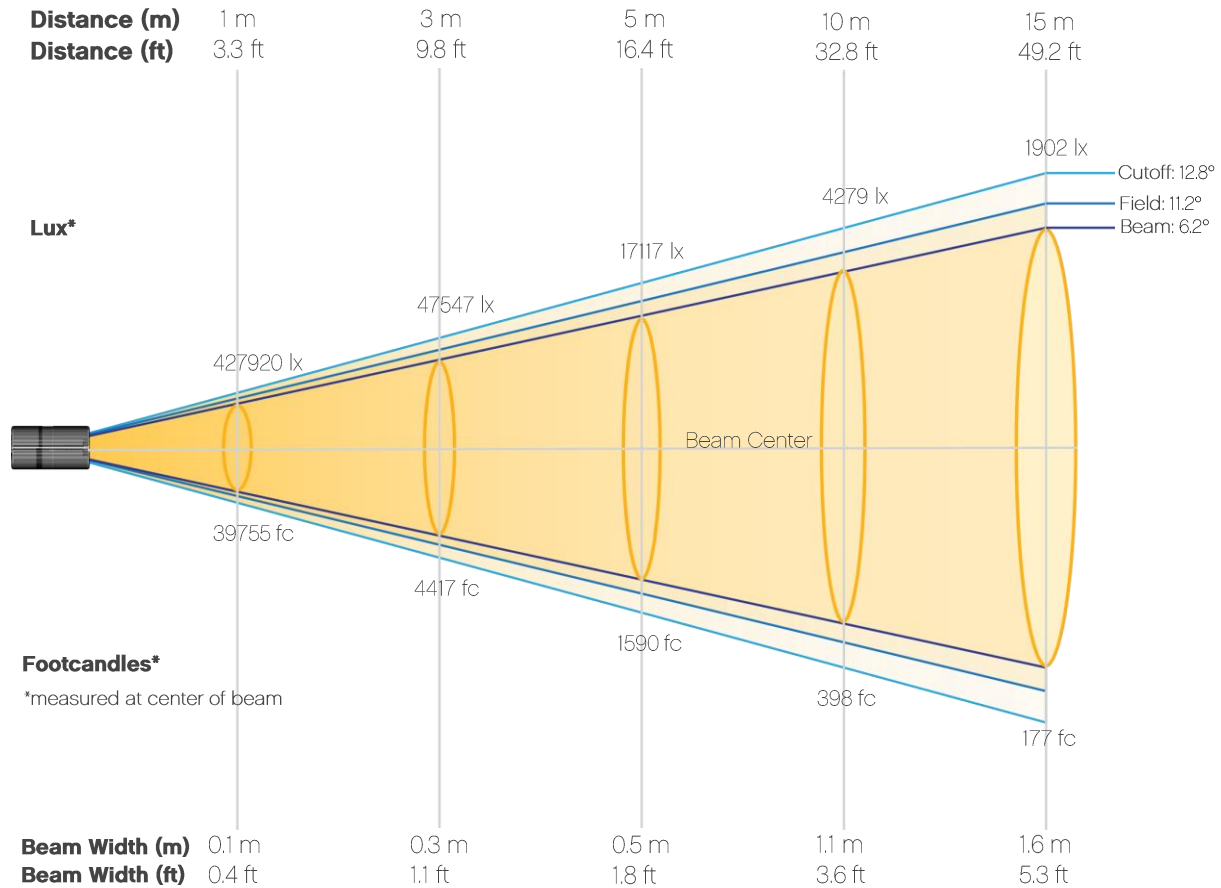
CIE 1931



Photometric Report

Ovation E-160WW: 10deg Lens, Full Power

Beam Details



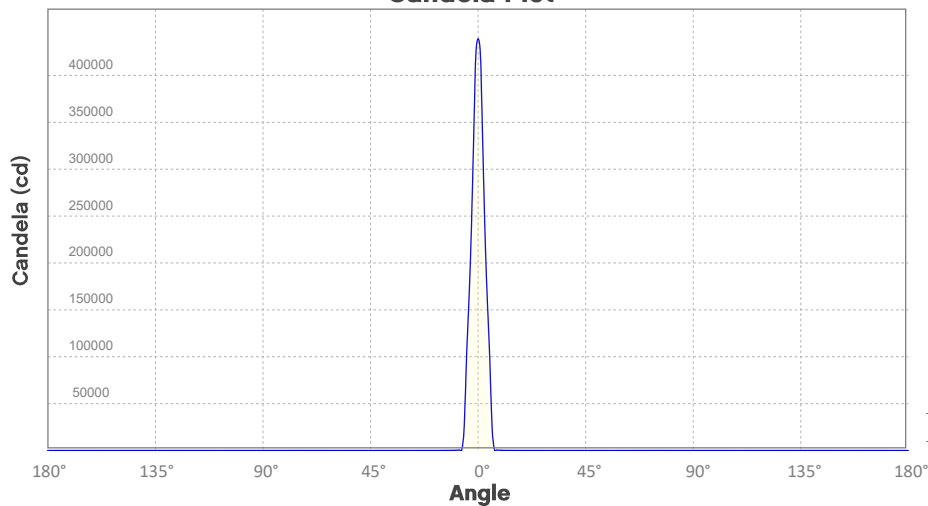
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	427920	106980	47547	26745	17117	11887	8733	6686	5283	4279
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	3537	2972	2532	2183	1902	1672	1481	1321	1185	1070
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	39755	9939	4417	2485	1590	1104	811	621	491	398
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	329	276	235	203	177	155	138	123	110	99

Photometric Report

Ovation E-160WW: 10deg Lens, Full Power

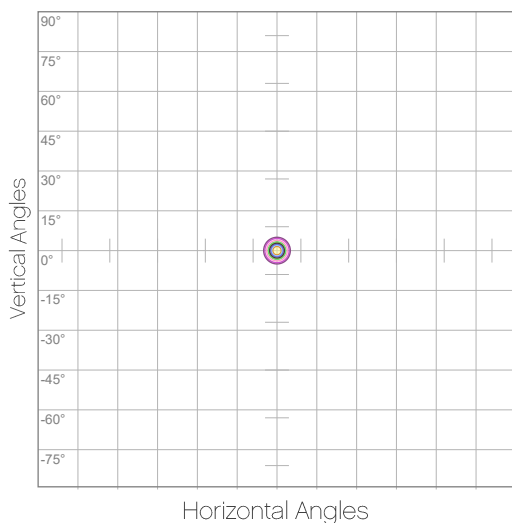
Candela Plot



Beam Angle (50%): 6.2°
Field Angle (10%): 11.2°
Cutoff Angle (3%): 12.8°

— Horizontal Distribution
— Vertical Distribution

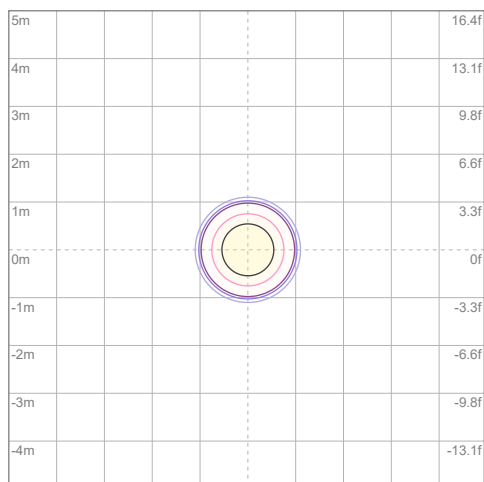
Polar Diagrams



iso-candela Diagram

10%	42792 cd
20%	85584 cd
30%	128376 cd
40%	171168 cd
50%	213960 cd
60%	256752 cd
70%	299544 cd
80%	342336 cd
90%	385128 cd

Conditions:
Number of c-planes: 2
Candela at center: 427920 cd



iso-illuminance Diagram

3%	128 lx
5%	214 lx
10%	428 lx
30%	1284 lx
50%	2140 lx

Conditions:
Number of c-planes: 2
Lux at center: 4279 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-160WW: 5deg Lens, Full Power

Report Summary

Output

Total Lumens: 5608 lm
Peak Intensity: 835524 cd
Illuminance @ 5m: 33421 lux
Fixture Efficacy: 53 lm/W

Optical

Horizontal Beam Angle (50%): 4°
Vertical Beam Angle (50%): 4°
Horizontal Field Angle (10%): 8°
Vertical Field Angle (10%): 8°
Horizontal Cutoff Angle (3%): 9.6°
Vertical Cutoff Angle (3%): 9.6°

Conditions

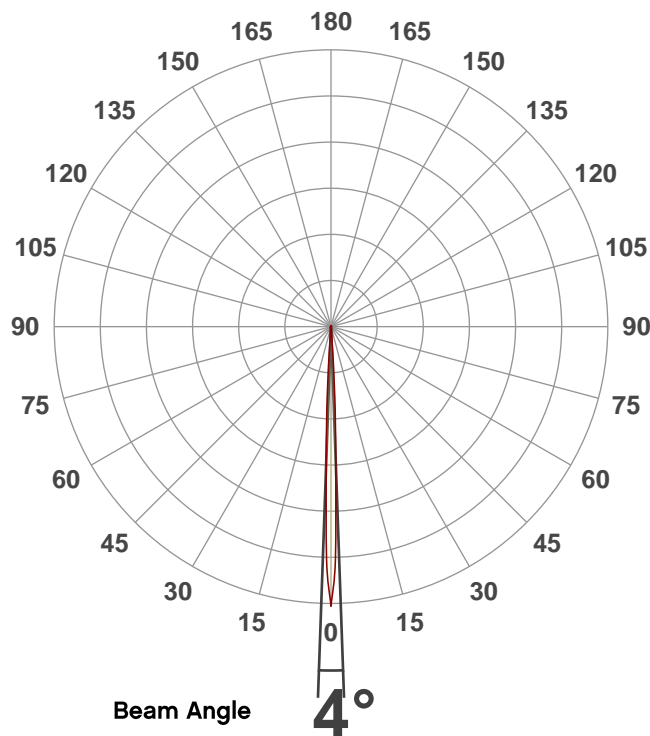
AC Supply: 119 V, 60 Hz
Power: 106.97 W
Current: 0.898 A
Power Factor: 0.99



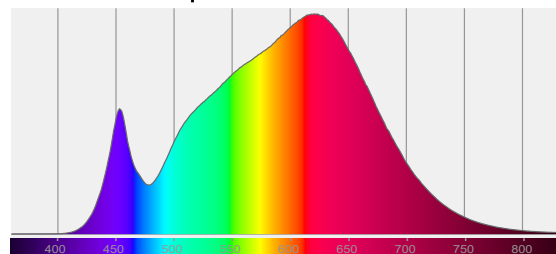
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/5/2020 to LM-63-2002 Standards.

Overall Measurement

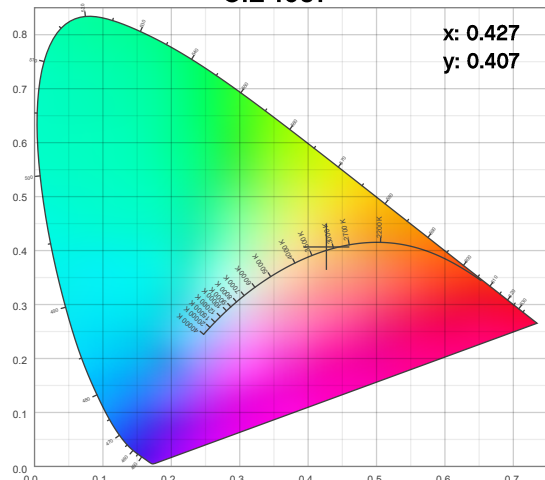
Angular Beam Distribution



Spectral Distribution



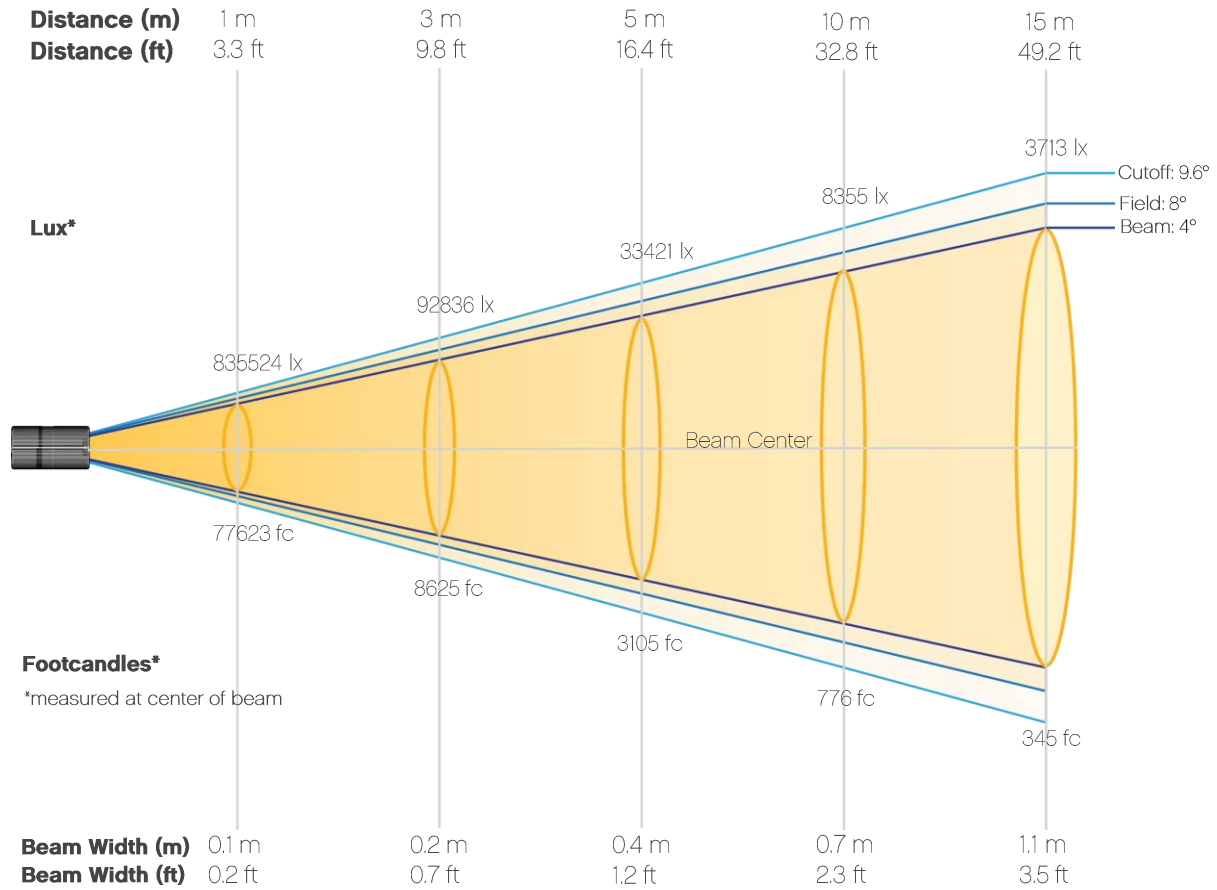
CIE 1931



Photometric Report

Ovation E-160WW: 5deg Lens, Full Power

Beam Details

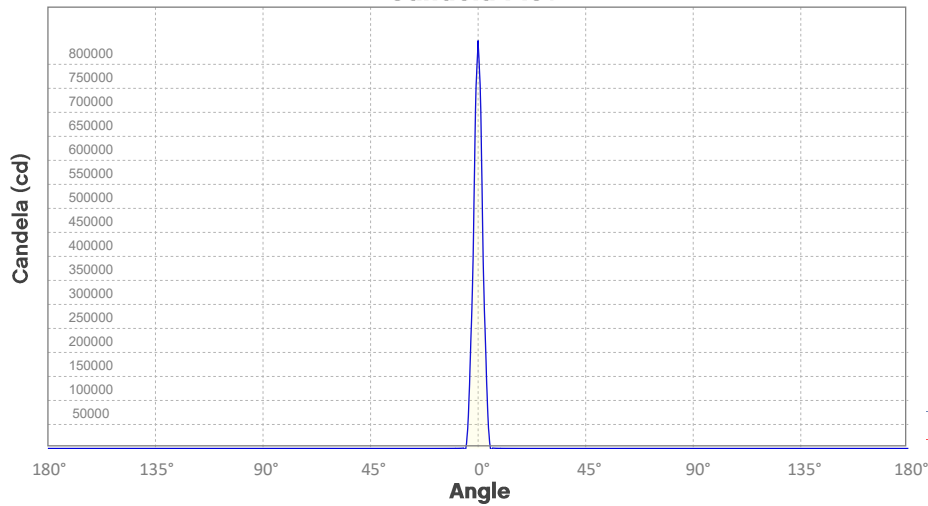


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	835524	208881	92836	52220	33421	23209	17052	13055	10315	8355
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	6905	5802	4944	4263	3713	3264	2891	2579	2314	2089
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	77623	19406	8625	4851	3105	2156	1584	1213	958	776
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	642	539	459	396	345	303	269	240	215	194

Photometric Report

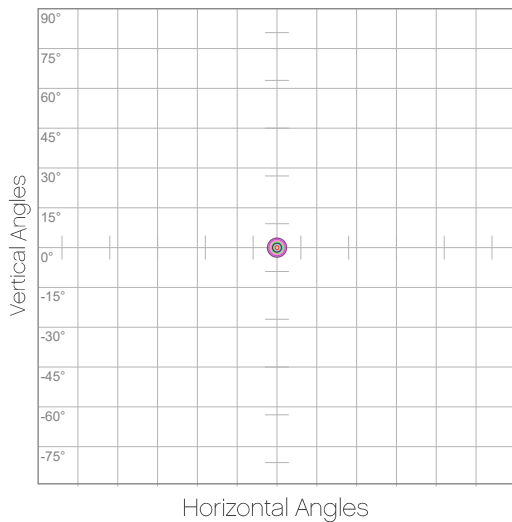
Ovation E-160WW: 5deg Lens, Full Power
Candela Plot



Beam Angle (50%): 4°
Field Angle (10%): 8°
Cutoff Angle (3%): 9.6°

— Horizontal Distribution
— Vertical Distribution

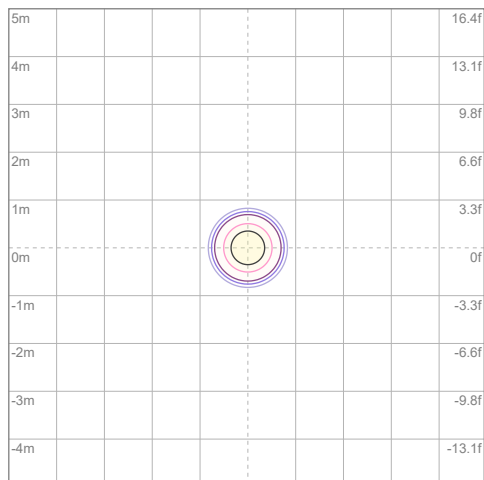
Polar Diagrams



iso-candela Diagram

10%	83552 cd
20%	167105 cd
30%	250657 cd
40%	334210 cd
50%	417762 cd
60%	501314 cd
70%	584867 cd
80%	668419 cd
90%	751972 cd

Conditions:
Number of c-planes: 2
Candela at center: 835524 cd



iso-illuminance Diagram

3%	251 lx
5%	418 lx
10%	836 lx
30%	2507 lx
50%	4178 lx

Conditions:
Number of c-planes: 2
Lux at center: 8355 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-160WW: 25-50 Zoom Lens-50deg , Full Power

Report Summary

Output

Total Lumens: 6451 lm
Peak Intensity: 27982 cd
Illuminance @ 5m: 1119 lux
Fixture Efficacy: 61 lm/W

Optical

Horizontal Beam Angle (50%): 28.5°
Vertical Beam Angle (50%): 28.5°
Horizontal Field Angle (10%): 43.4°
Vertical Field Angle (10%): 43.4°
Horizontal Cutoff Angle (3%): 45.9°
Vertical Cutoff Angle (3%): 45.9°

Conditions

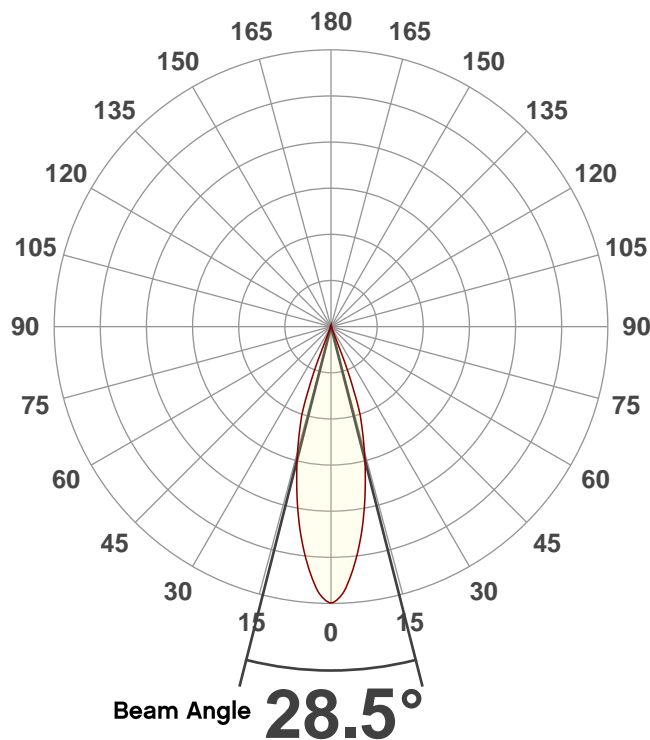
AC Supply: 119 V, 60 Hz
Power: 106.97 W
Current: 0.898 A
Power Factor: 0.99



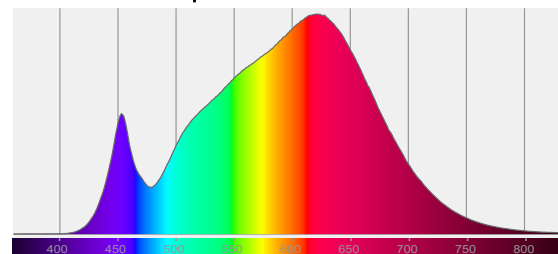
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/5/2020 to LM-63-2002 Standards.

Overall Measurement

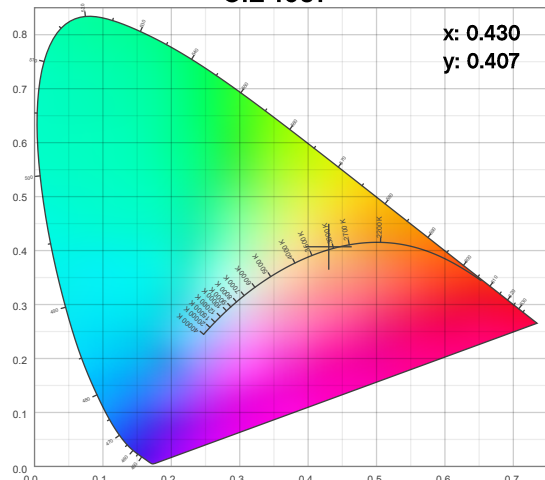
Angular Beam Distribution



Spectral Distribution



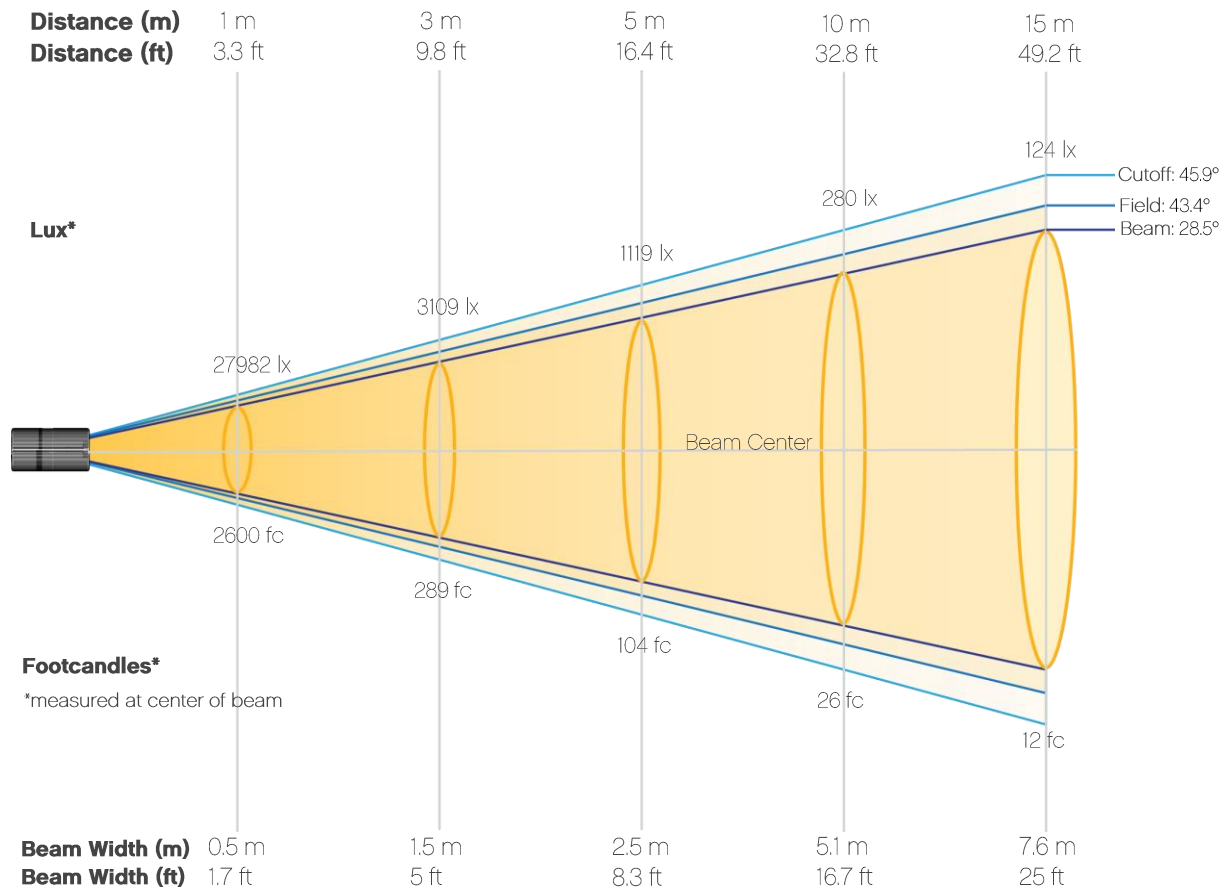
CIE 1931



Photometric Report

Ovation E-160WW: 25-50 Zoom Lens-50deg , Full Power

Beam Details



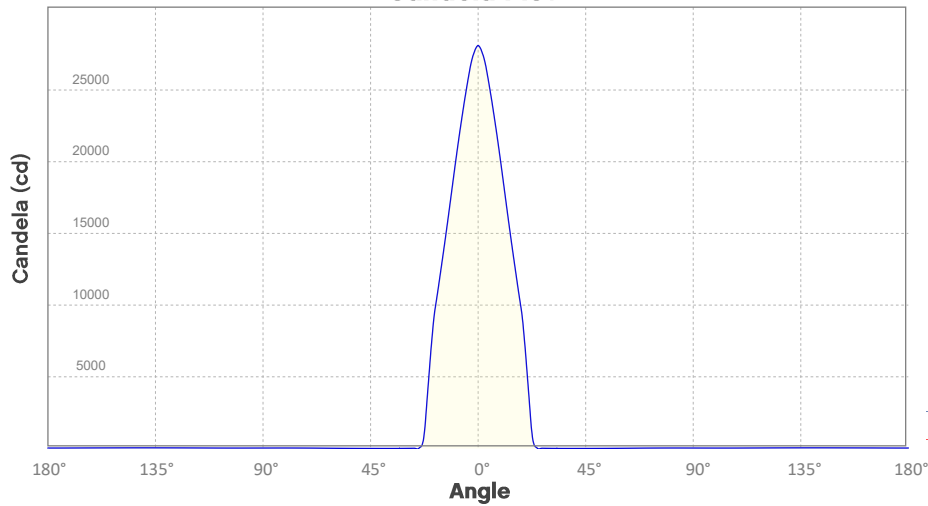
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	27982	6995	3109	1749	1119	777	571	437	345	280
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	231	194	166	143	124	109	97	86	78	70
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	2600	650	289	162	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	21	18	15	13	12	10	9	8	7	6

Photometric Report

Ovation E-160WW: 25-50 Zoom Lens-50deg , Full Power

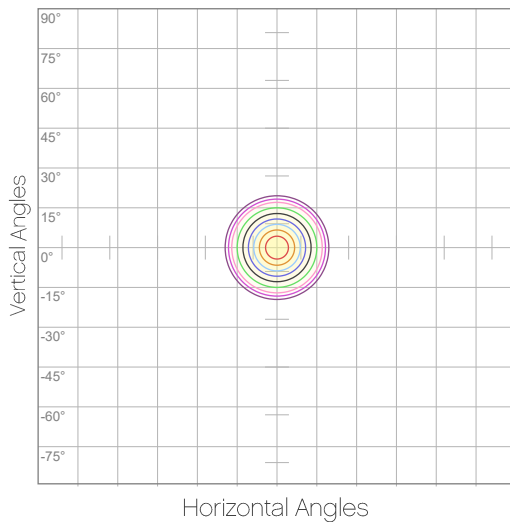
Candela Plot



Beam Angle (50%): 28.5°
Field Angle (10%): 43.4°
Cutoff Angle (3%): 45.9°

— Horizontal Distribution
— Vertical Distribution

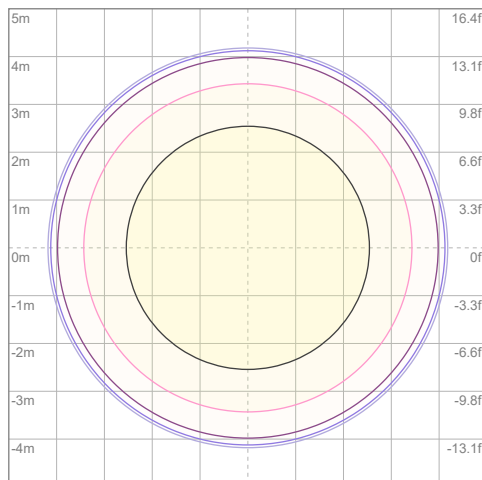
Polar Diagrams



iso-candela Diagram

10%	2798 cd
20%	5596 cd
30%	8395 cd
40%	11193 cd
50%	13991 cd
60%	16789 cd
70%	19587 cd
80%	22385 cd
90%	25184 cd

Conditions:
Number of c-planes: 2
Candela at center: 27982 cd



iso-illuminance Diagram

3%	8.39 lx
5%	14.0 lx
10%	28.0 lx
30%	83.9 lx
50%	140 lx

Conditions:
Number of c-planes: 2
Lux at center: 280 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-160WW: 25-50 Zoom Lens-25deg , Full Power

Report Summary

Output

Total Lumens: 6356 lm
Peak Intensity: 67101 cd
Illuminance @ 5m: 2684 lux
Fixture Efficacy: 60 lm/W

Optical

Horizontal Beam Angle (50%): 20.4°
Vertical Beam Angle (50%): 20.4°
Horizontal Field Angle (10%): 26.2°
Vertical Field Angle (10%): 26.2°
Horizontal Cutoff Angle (3%): 27.7°
Vertical Cutoff Angle (3%): 27.7°

Conditions

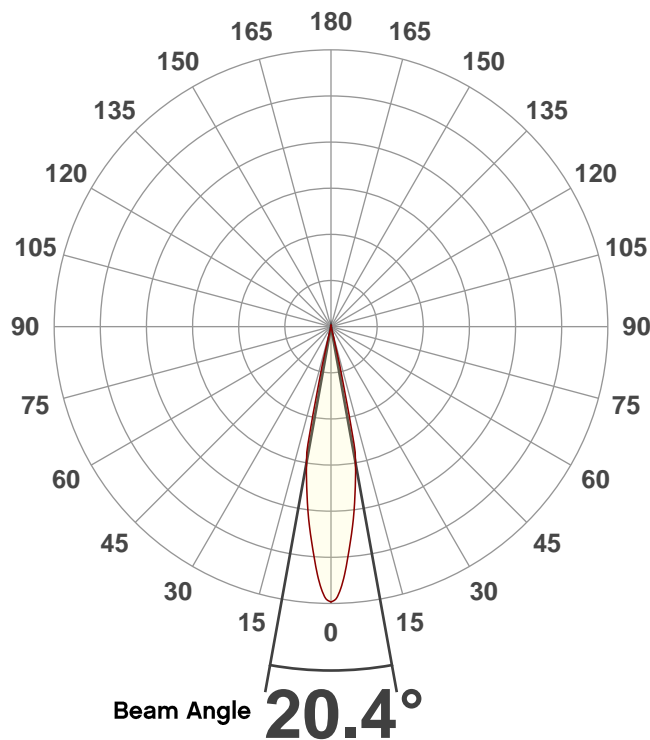
AC Supply: 119 V, 60 Hz
Power: 106.6 W
Current: 0.896 A
Power Factor: 0.99



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 2/5/2020 to LM-63-2002 Standards.

Overall Measurement

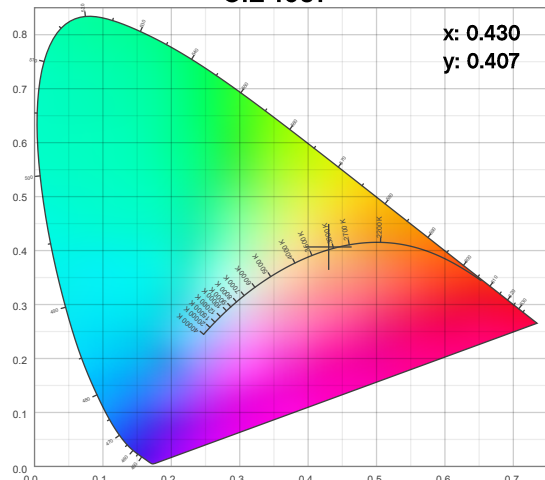
Angular Beam Distribution



Spectral Distribution



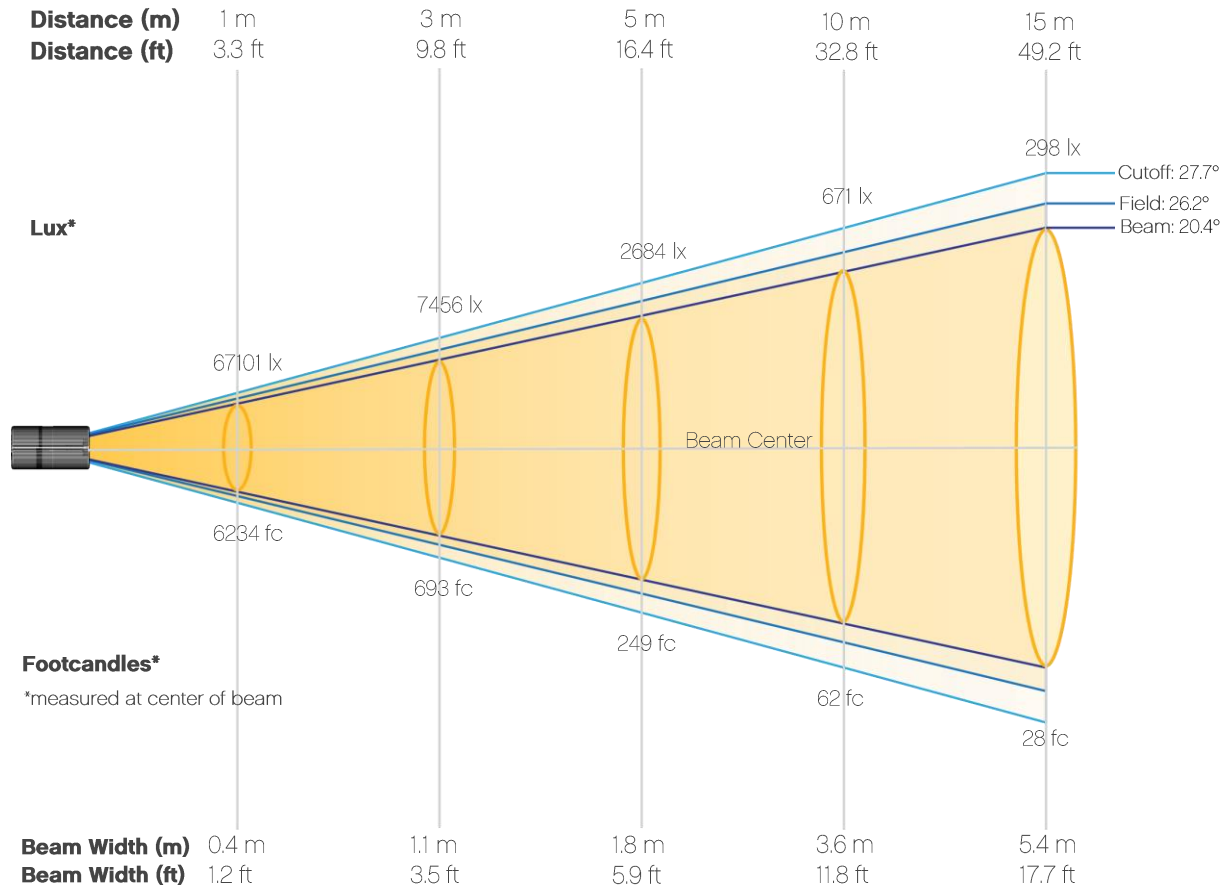
CIE 1931



Photometric Report

Ovation E-160WW: 25-50 Zoom Lens-25deg , Full Power

Beam Details



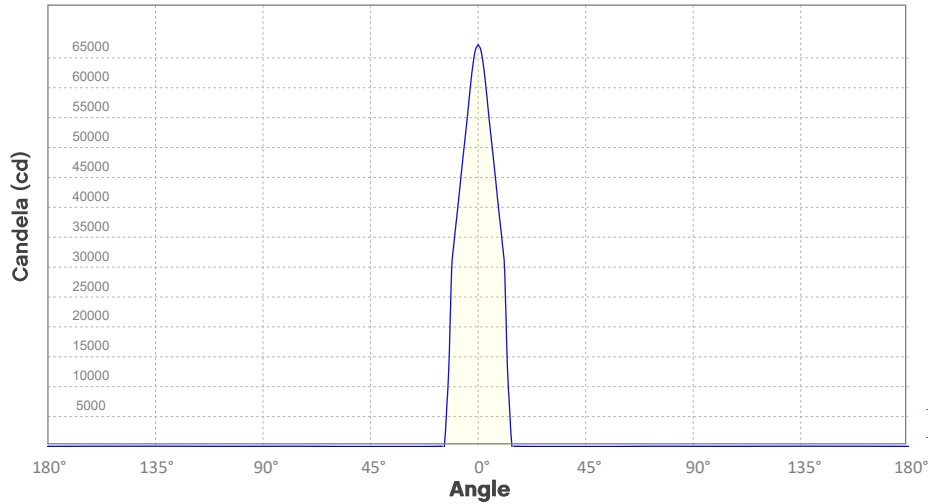
Beam luminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	67101	16775	7456	4194	2684	1864	1369	1048	828	671
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	555	466	397	342	298	262	232	207	186	168
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	6234	1558	693	390	249	173	127	97	77	62
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	52	43	37	32	28	24	22	19	17	16

Photometric Report

Ovation E-160WW: 25-50 Zoom Lens-25deg , Full Power

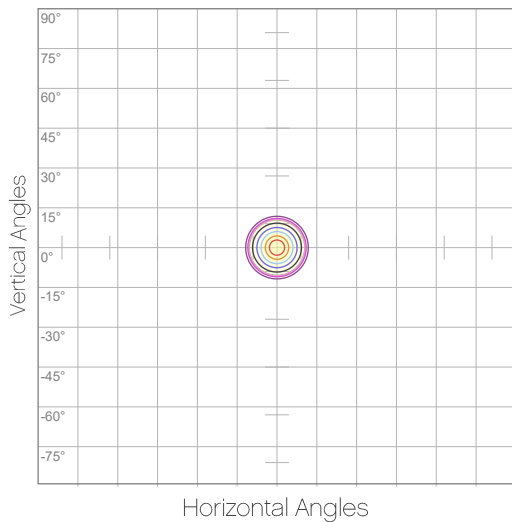
Candela Plot



Beam Angle (50%): 20.4°
Field Angle (10%): 26.2°
Cutoff Angle (3%): 27.7°

— Horizontal Distribution
 — Vertical Distribution

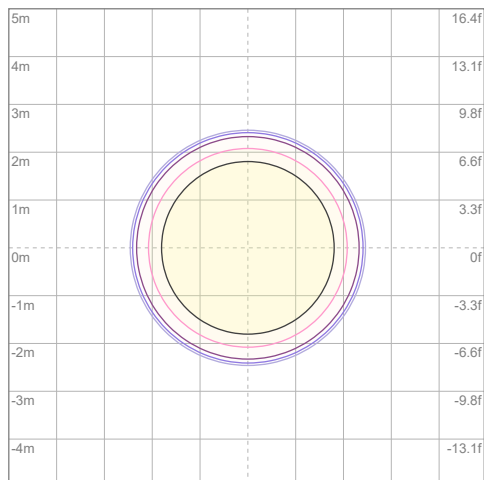
Polar Diagrams



iso-candela Diagram

10%	6710 cd
20%	13420 cd
30%	20130 cd
40%	26840 cd
50%	33550 cd
60%	40260 cd
70%	46970 cd
80%	53680 cd
90%	60390 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 67101 cd



iso-illuminance Diagram

3%	20.1 lx
5%	33.6 lx
10%	67.1 lx
30%	201 lx
50%	336 lx

Conditions:
 Number of c-planes: 2
 Lux at center: 671 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-160WW: 15-30 Zoom Lens-30deg , Full Power

Report Summary

Output

Total Lumens: 6124 lm
Peak Intensity: 64237 cd
Illuminance @ 5m: 2569 lux
Fixture Efficacy: 58 lm/W

Optical

Horizontal Beam Angle (50%): 16.5°
Vertical Beam Angle (50%): 16.5°
Horizontal Field Angle (10%): 29.9°
Vertical Field Angle (10%): 29.9°
Horizontal Cutoff Angle (3%): 31.9°
Vertical Cutoff Angle (3%): 31.9°

Conditions

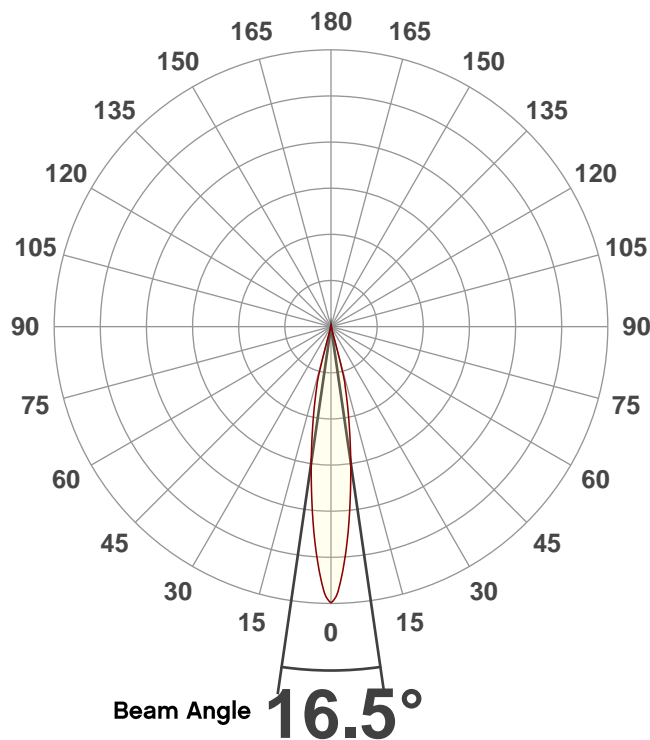
AC Supply: 119 V, 60 Hz
Power: 106.86 W
Current: 0.898 A
Power Factor: 0.99



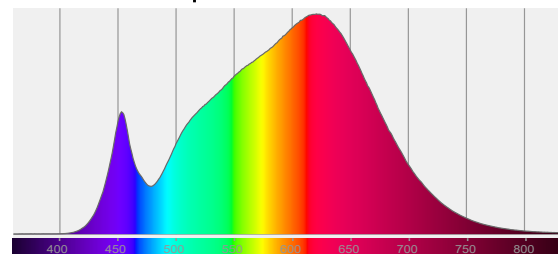
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/5/2020 to LM-63-2002 Standards.

Overall Measurement

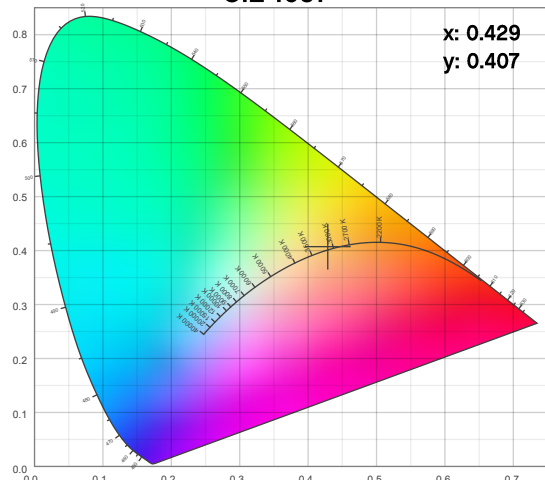
Angular Beam Distribution



Spectral Distribution



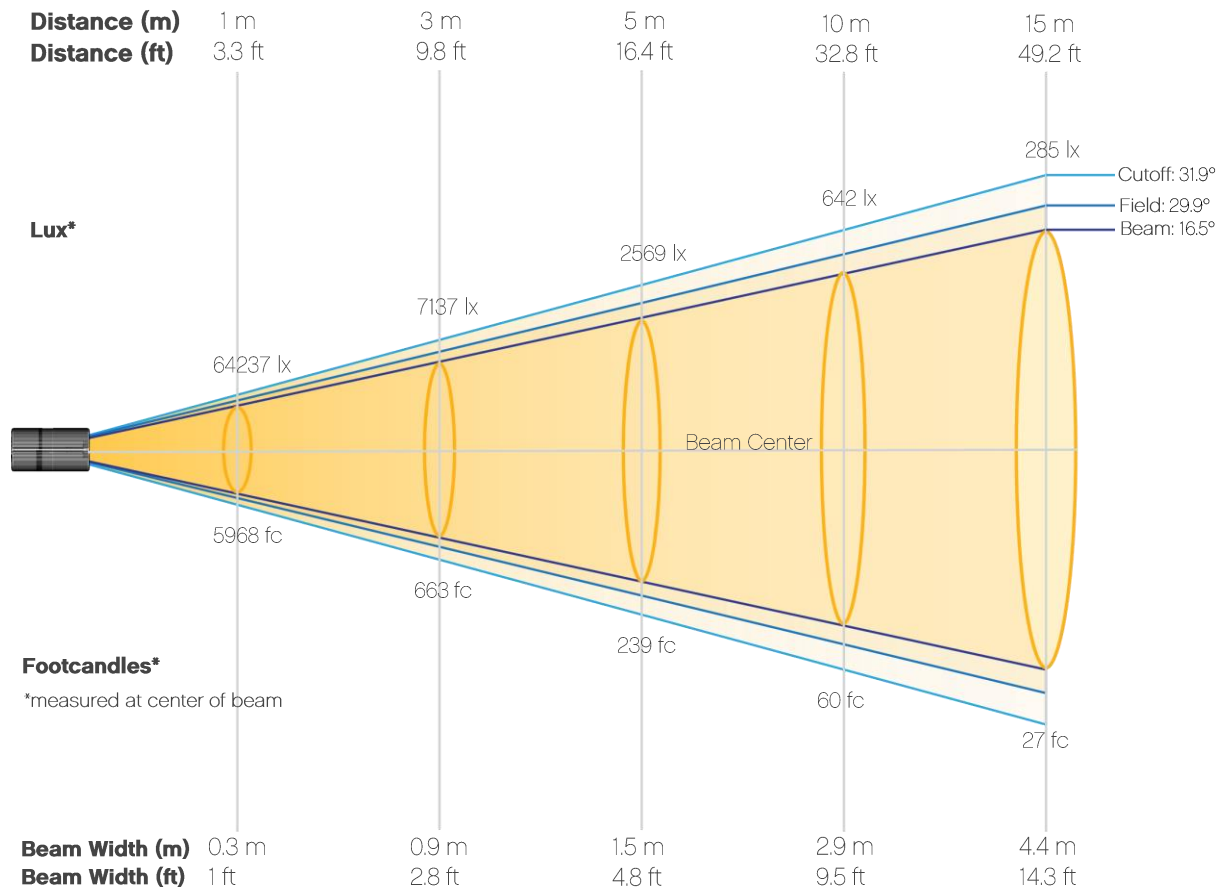
CIE 1931



Photometric Report

Ovation E-160WW: 15-30 Zoom Lens-30deg , Full Power

Beam Details



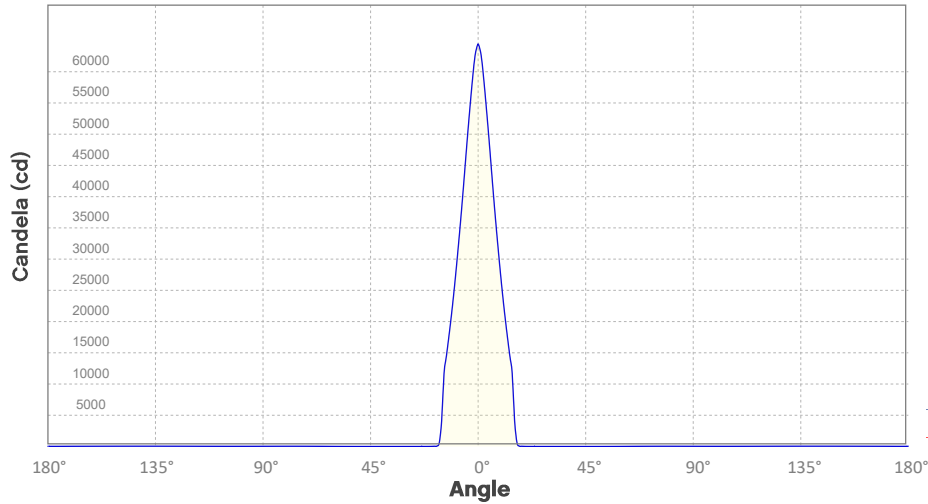
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	64237	16059	7137	4015	2569	1784	1311	1004	793	642
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	531	446	380	328	285	251	222	198	178	161
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	5968	1492	663	373	239	166	122	93	74	60
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	49	41	35	30	27	23	21	18	17	15

Photometric Report

Ovation E-160WW: 15-30 Zoom Lens-30deg , Full Power

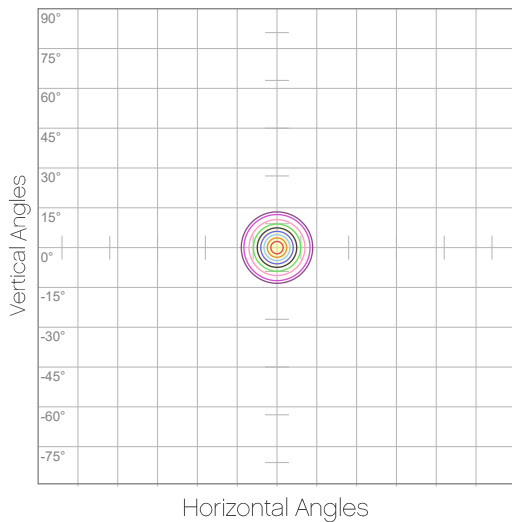
Candela Plot



Beam Angle (50%): 16.5°
Field Angle (10%): 29.9°
Cutoff Angle (3%): 31.9°

— Horizontal Distribution
 — Vertical Distribution

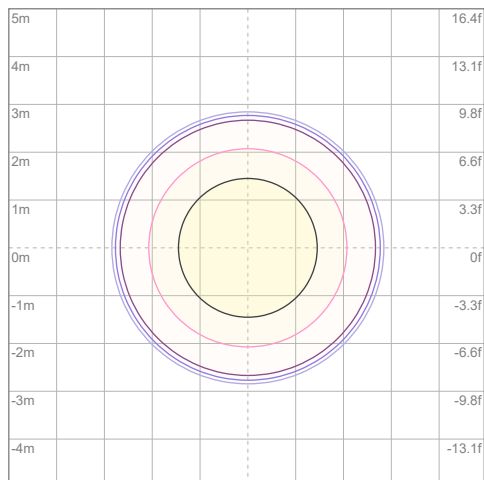
Polar Diagrams



iso-candela Diagram

10%	6424 cd
20%	12847 cd
30%	19271 cd
40%	25695 cd
50%	32118 cd
60%	38542 cd
70%	44966 cd
80%	51389 cd
90%	57813 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 64237 cd



iso-illuminance Diagram

3%	19.3 lx
5%	32.1 lx
10%	64.2 lx
30%	193 lx
50%	321 lx

Conditions:
 Number of c-planes: 2
 Lux at center: 642 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-160WW: 15-30 Zoom Lens-15deg , Full Power

Report Summary

Output

Total Lumens: 6313 lm
Peak Intensity: 217353 cd
Illuminance @ 5m: 8694 lux
Fixture Efficacy: 60 lm/W

Optical

Horizontal Beam Angle (50%): 10.3°
Vertical Beam Angle (50%): 10.3°
Horizontal Field Angle (10%): 15.3°
Vertical Field Angle (10%): 15.3°
Horizontal Cutoff Angle (3%): 16.1°
Vertical Cutoff Angle (3%): 16.1°

Conditions

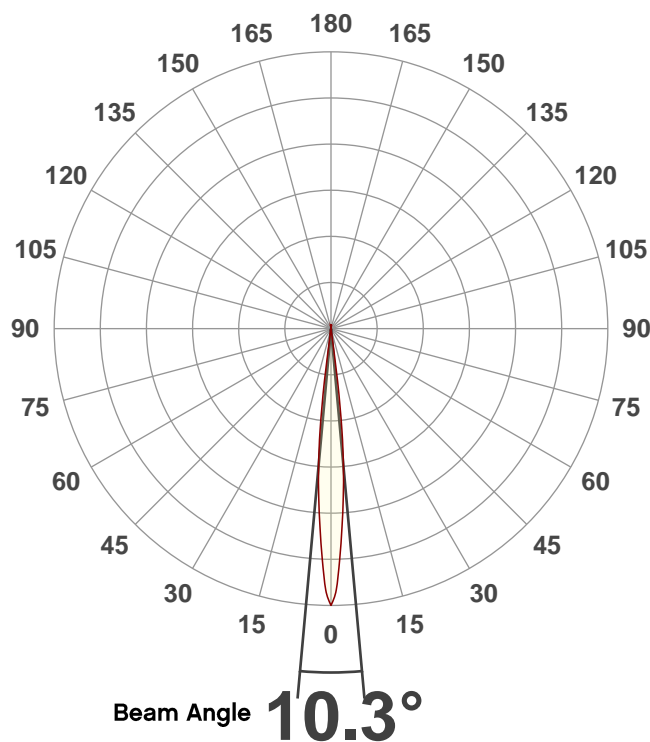
AC Supply: 119 V, 60 Hz
Power: 107.16 W
Current: 0.901 A
Power Factor: 0.99



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 2/5/2020 to LM-63-2002 Standards.

Overall Measurement

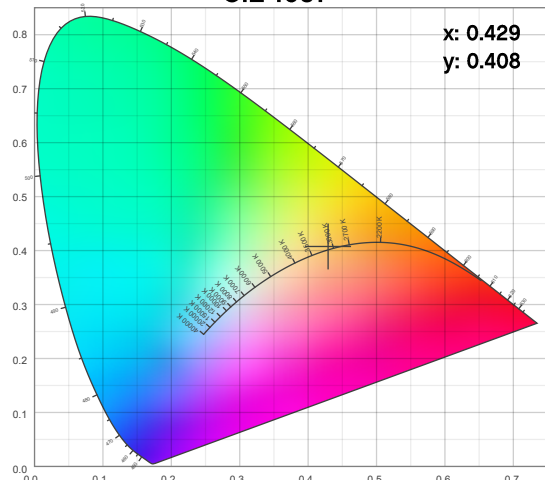
Angular Beam Distribution



Spectral Distribution



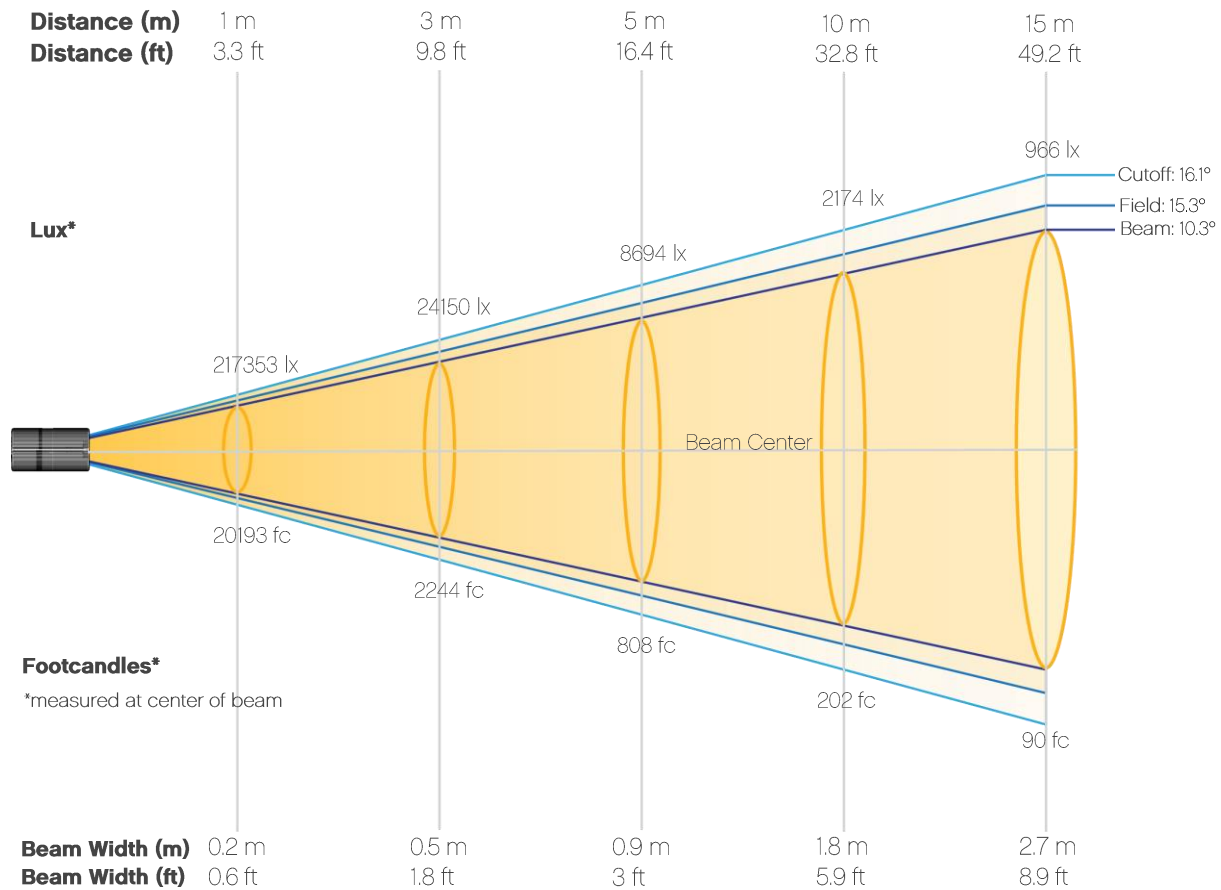
CIE 1931



Photometric Report

Ovation E-160WW: 15-30 Zoom Lens-15deg , Full Power

Beam Details



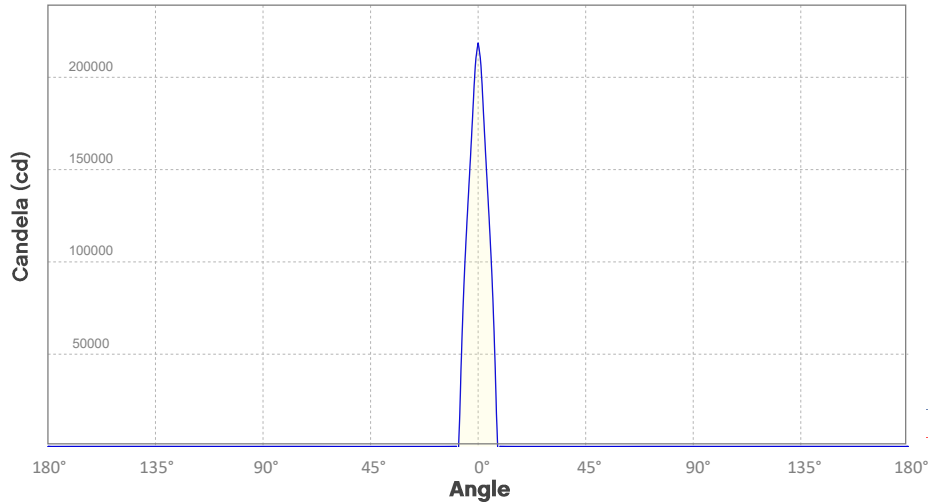
Beam luminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	217353	54338	24150	13585	8694	6038	4436	3396	2683	2174
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1796	1509	1286	1109	966	849	752	671	602	543
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	20193	5048	2244	1262	808	561	412	316	249	202
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	167	140	119	103	90	79	70	62	56	50

Photometric Report

Ovation E-160WW: 15-30 Zoom Lens-15deg , Full Power

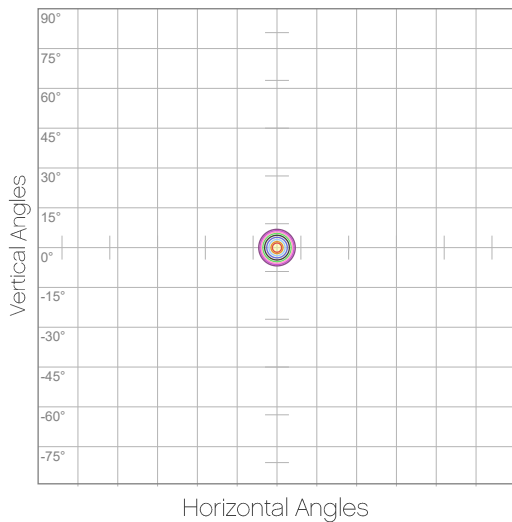
Candela Plot



Beam Angle (50%): 10.3°
Field Angle (10%): 15.3°
Cutoff Angle (3%): 16.1°

— Horizontal Distribution
 — Vertical Distribution

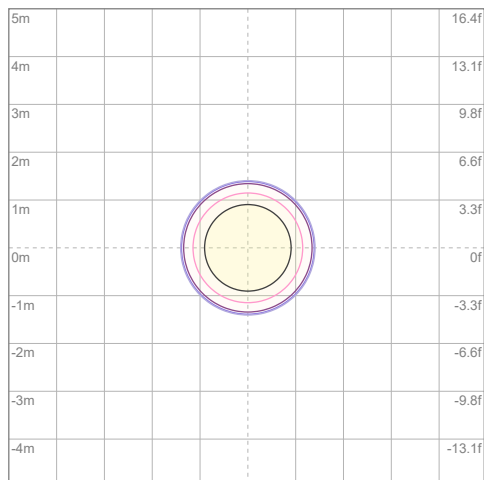
Polar Diagrams



iso-candela Diagram

10%	21735 cd
20%	43471 cd
30%	65206 cd
40%	86941 cd
50%	108677 cd
60%	130412 cd
70%	152147 cd
80%	173883 cd
90%	195618 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 217353 cd



iso-illuminance Diagram

3%	65.2 lx
5%	109 lx
10%	217 lx
30%	652 lx
50%	1087 lx

Conditions:
 Number of c-planes: 2
 Lux at center: 2174 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-160WW: Full Power

Report Summary

Measurements

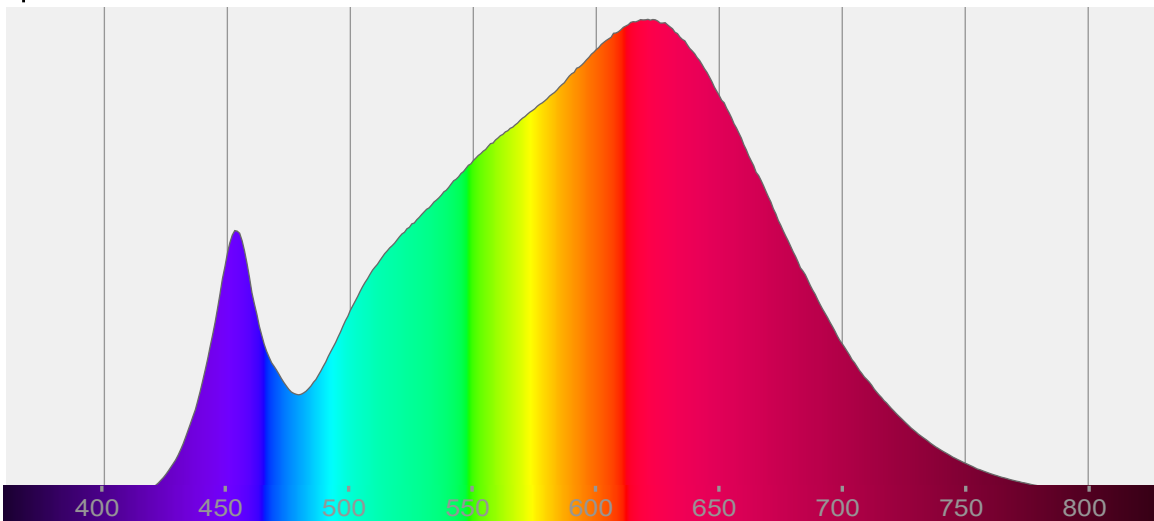
Total Lumens: 6657 lm
Peak Intensity: 69399 cd
Fixture Efficacy: 59 lm/W

Correlated Color Temperature: 3140K
 Δuv : 0.0014

CRI: 91.2 CRI R9 Value: 57.6
CQS: 90.1
TLCI: 92
TM-30-18 Rf: 91.0
TM-30-18 Rg: 99.0
1st Dominant Wavelength: 621 nm
2nd Dominant Wavelength: 453 nm



Spectral Distribution



Tested Color

3140 K
CIE 1931 Coordinates:
X: 0.429 Y: 0.405

Color Temperature

3140 K

Light Quality

CRI: 91.2

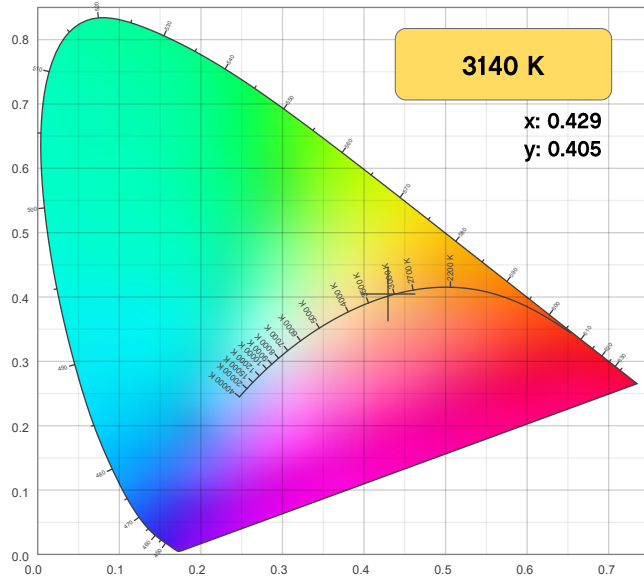
Notes:

Chromaticity Report

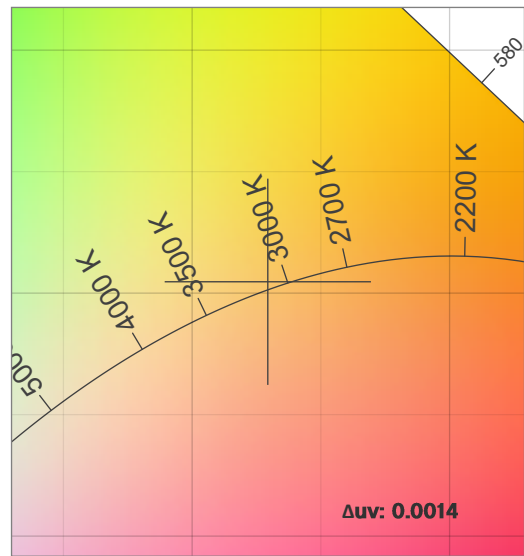
Ovation E-160WW: Full Power

Chromaticity

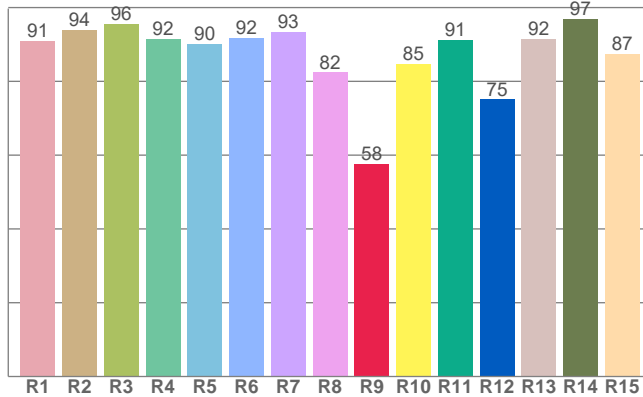
CIE 1931



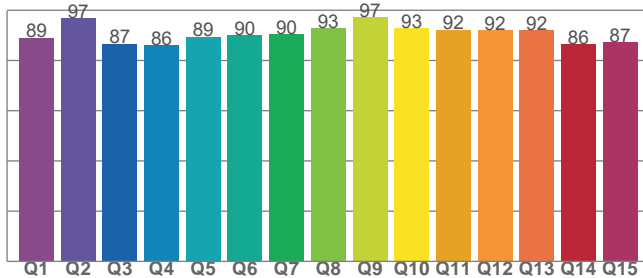
CIE 1931 - Zoom



CRI: 91.2 (R1-R8)



CQS: 90.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3140 K	0.429	0.405

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δ_{uv}	y	u
0.0014	0.405	0.245

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
91.2	57.6	90.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
92	91.0	99.0

Chromaticity Report

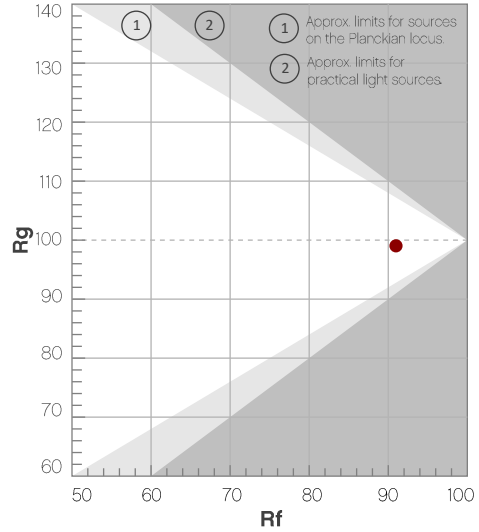
Ovation E-160WW: Full Power

TM-30-18 Details

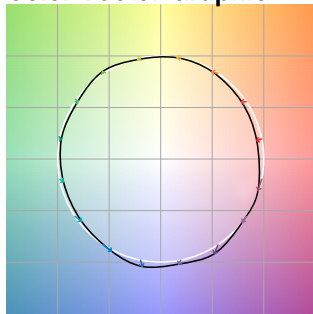
Rf 91.0
Fidelity Index (R_f)

Rg 99.0
Gamut Index (R_g)

Hue Bin	R _f	Chroma Shift	Hue Shift
1	90	-5%	0%
2	92	-4%	3%
3	89	-2%	5%
4	94	-1%	3%
5	93	-1%	3%
6	96	2%	0%
7	93	-2%	-2%
8	97	-2%	-1%
9	93	-3%	3%
10	87	-3%	7%
11	86	1%	10%
12	90	6%	3%
13	93	3%	-3%
14	89	5%	-7%
15	89	0%	-7%
16	86	-1%	-11%



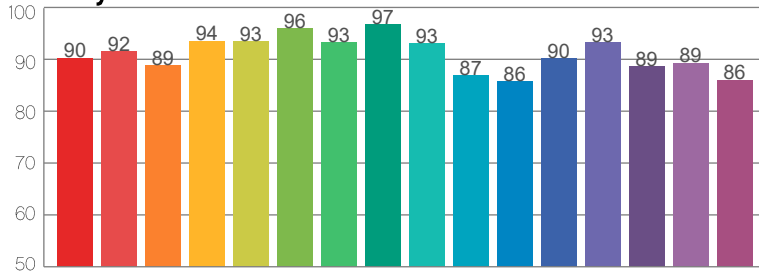
Color Vector Graphic



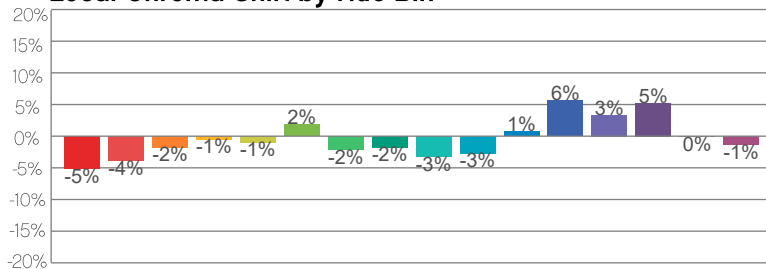
Color Distortion Graphic



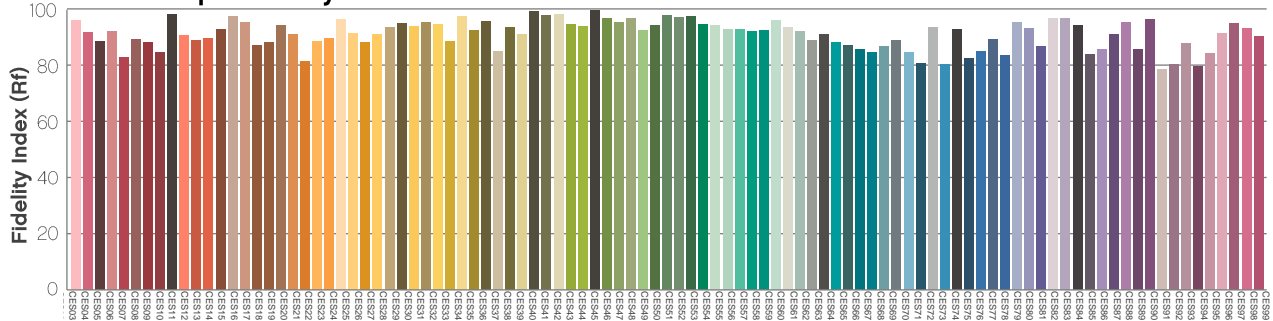
R_f by Hue Bin



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
Chauvet Europe Ltd	
Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: UKtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet Europe BVBA	
Stokstraat 18 9770 Kruishoutem, Belgium Voice: +32 (9) 388 93 97	Email: BNLtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet France	
3, Rue Ampère 91380 Chilly-Mazarin, France Voice: +33 1 78 85 33 59	Email: FRtech@chauvetlighting.fr Website: www.chauvetprofessional.eu
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 US, UK, Ireland, Benelux, France, Germany, or Mexico, contact the dealer of the record.

