

PHOTOMETRICS REPORT
OVATION
H-55WW



CHAUVET
PROFESSIONAL

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Testing Process

Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.

Photometric Report

Ovation H-55WW: 80deg Filter, Full Power

Report Summary

Output

Total Lumens: 3415 lm

Peak Intensity: 3242 cd

Illuminance @ 5m: 130 lux

Fixture Efficacy: 56 lm/W



Optical

Horizontal Beam Angle (50%): 41.2°

Vertical Beam Angle (50%): 41.3°

Horizontal Field Angle (10%): 131.3°

Vertical Field Angle (10%): 131.4°

Horizontal Cutoff Angle (3%): 155.5°

Vertical Cutoff Angle (3%): 155.5°

Conditions

AC Supply: 124 V, 60 Hz

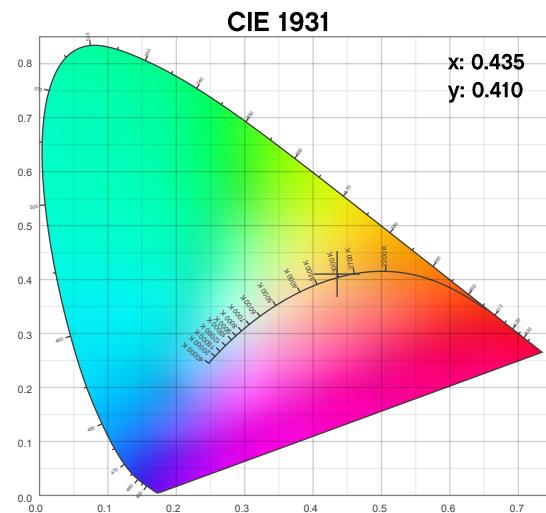
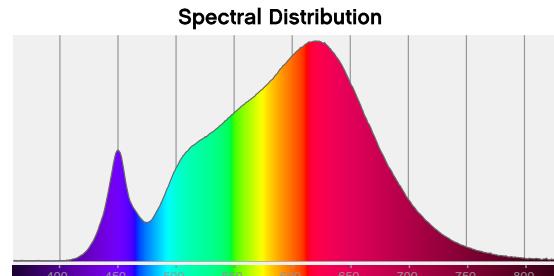
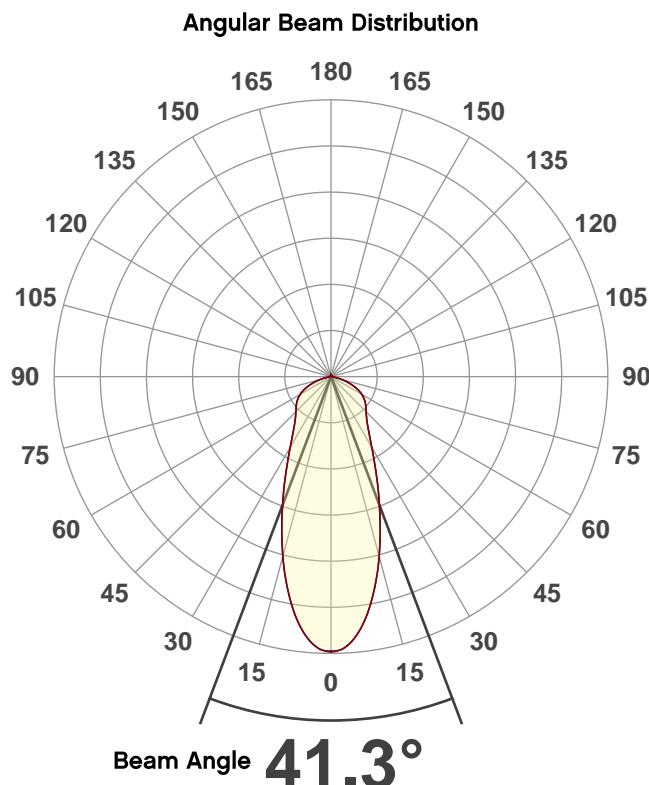
Power: 61.6 W

Current: 0.496 A

Power Factor: 1.0

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpon Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 11/13/2019 to LM-63-2002 Standards.

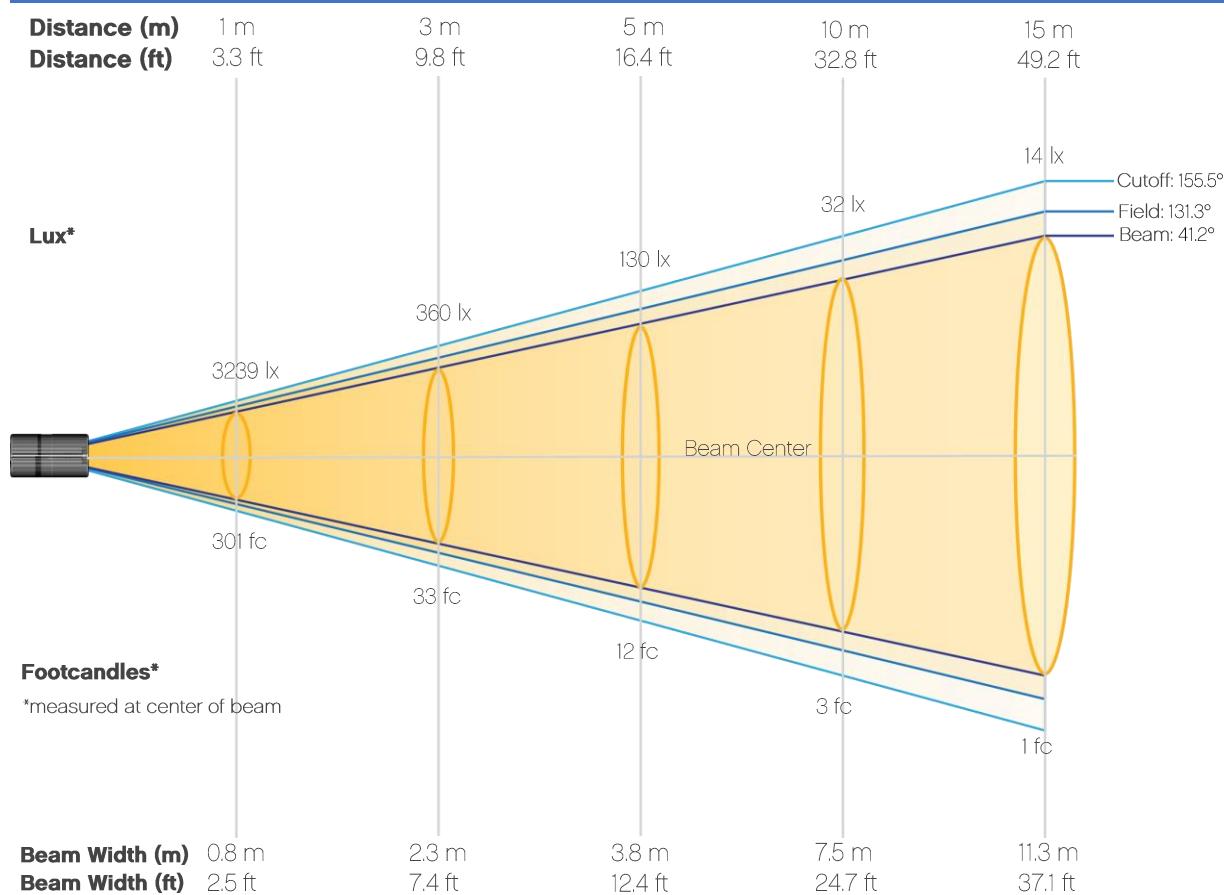
Overall Measurement



Photometric Report

Ovation H-55WW: 80deg Filter, Full Power

Beam Details

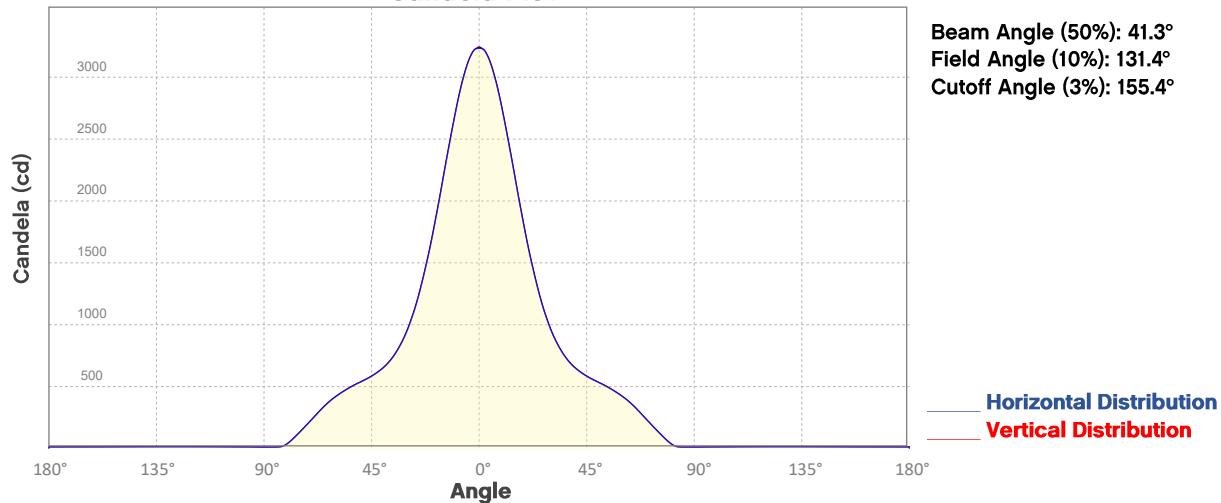


Beam Illuminances from 1-20m (3.3-65.6ft)

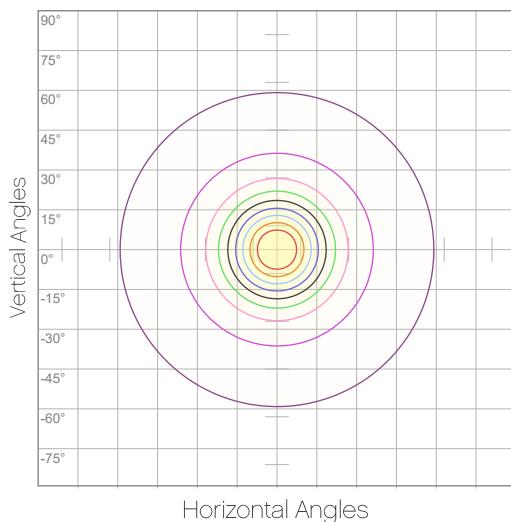
| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Lux | 3239 | 810 | 360 | 202 | 130 | 90 | 66 | 51 | 40 | 32 |
| Distance | 11m | 12m | 13m | 14m | 15m | 16m | 17m | 18m | 19m | 20m |
| Lux | 27 | 22 | 19 | 17 | 14 | 13 | 11 | 10 | 9 | 8 |
| Distance | 3.3ft | 6.6ft | 9.8ft | 13.1ft | 16.4ft | 19.7ft | 23ft | 26.2ft | 29.5ft | 32.8ft |
| FC | 301 | 75 | 33 | 19 | 12 | 8 | 6 | 5 | 4 | 3 |
| Distance | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| FC | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 | 1 | 1 |

Photometric Report

Ovation H-55WW: 80deg Filter, Full Power
Candela Plot



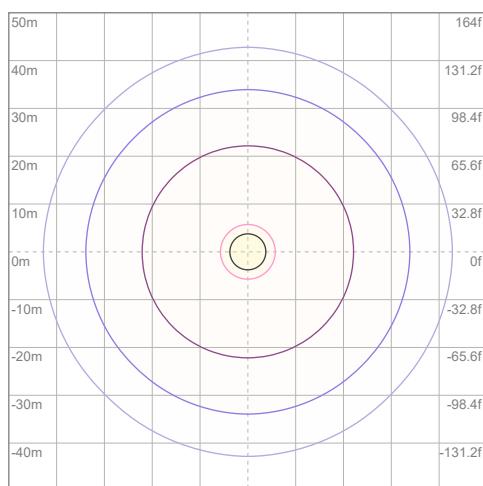
Polar Diagrams



iso-candela Diagram

| | |
|-----|---------|
| 10% | 324 cd |
| 20% | 648 cd |
| 30% | 972 cd |
| 40% | 1296 cd |
| 50% | 1620 cd |
| 60% | 1943 cd |
| 70% | 2267 cd |
| 80% | 2591 cd |
| 90% | 2915 cd |

Conditions:
Number of c-planes: 8
Candela at center: 3239 cd



iso-illuminance Diagram

| | |
|-----|----------|
| 3% | 0.972 lx |
| 5% | 1.62 lx |
| 10% | 3.24 lx |
| 30% | 9.72 lx |
| 50% | 16.2 lx |

Conditions:
Number of c-planes: 8
Lux at center: 32.4 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ovation H-55WW: 65deg lens, Full Power

Report Summary

Output

Total Lumens: 4304 lm
Peak Intensity: 4294 cd
Illuminance @ 5m: 171 lux
Fixture Efficacy: 69 lm/W

Optical

Horizontal Beam Angle (50%): 62.5°
Vertical Beam Angle (50%): 62.5°
Horizontal Field Angle (10%): 85.5°
Vertical Field Angle (10%): 85.6°
Horizontal Cutoff Angle (3%): 100.8°
Vertical Cutoff Angle (3%): 100.6°

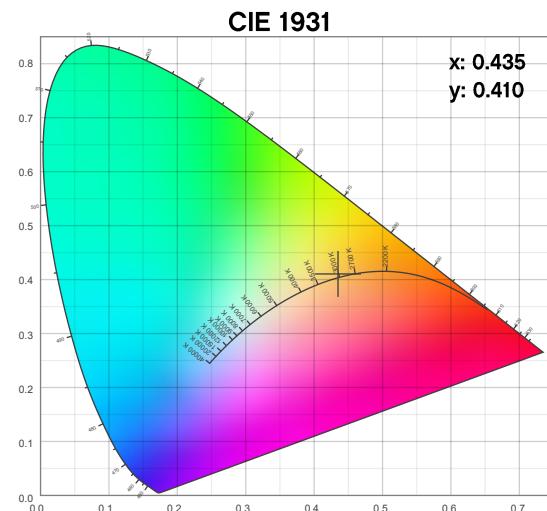
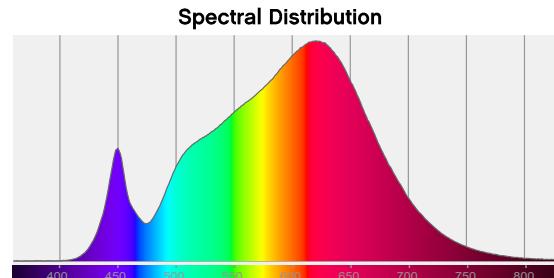
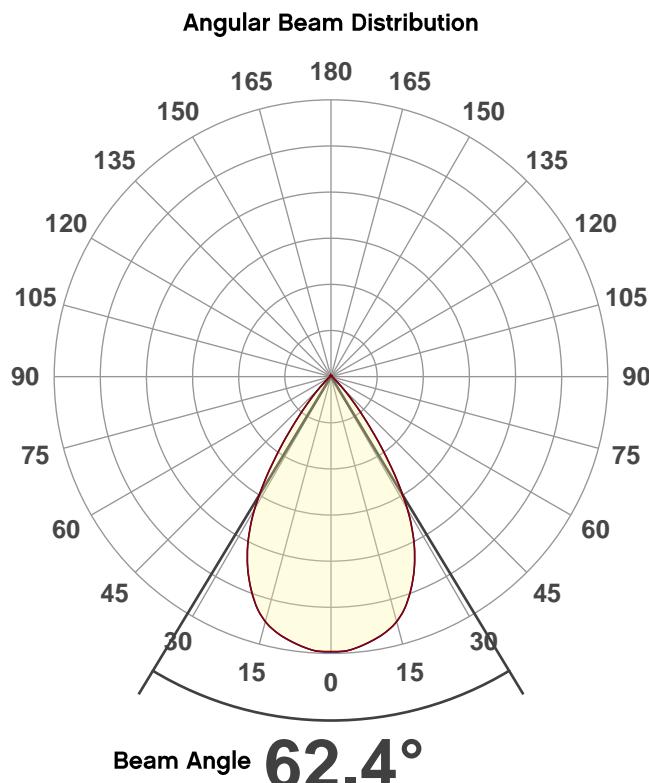
Conditions

AC Supply: 125 V, 60 Hz
Power: 62.86 W
Current: 0.505 A
Power Factor: 1.0



This data sheet conforms to American National Standard E1.19 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpon Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 11/13/2019 to LM-63-2002 Standards.

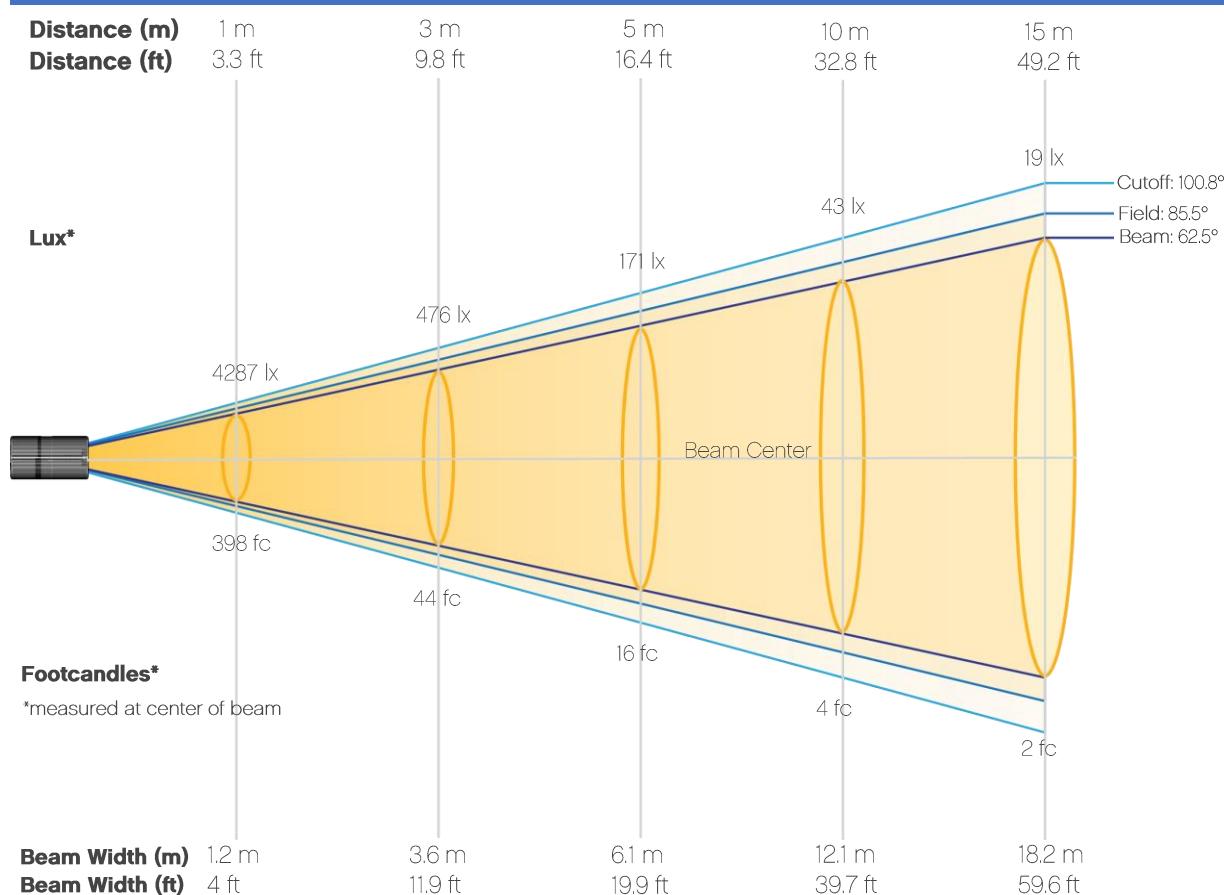
Overall Measurement



Photometric Report

Ovation H-55WW: 65deg lens, Full Power

Beam Details

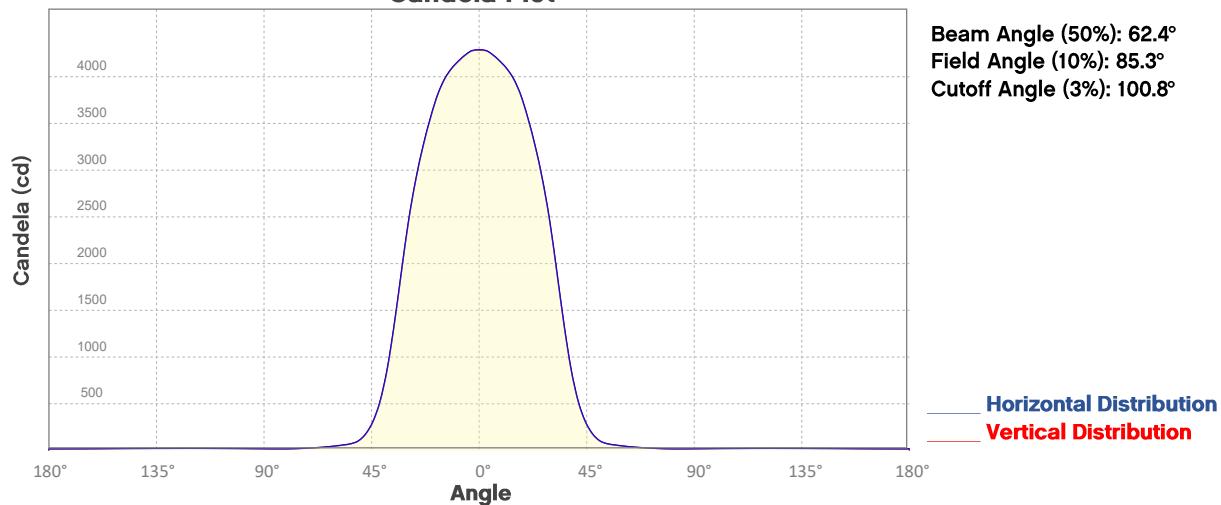


Beam Illuminances from 1-20m (3.3-65.6ft)

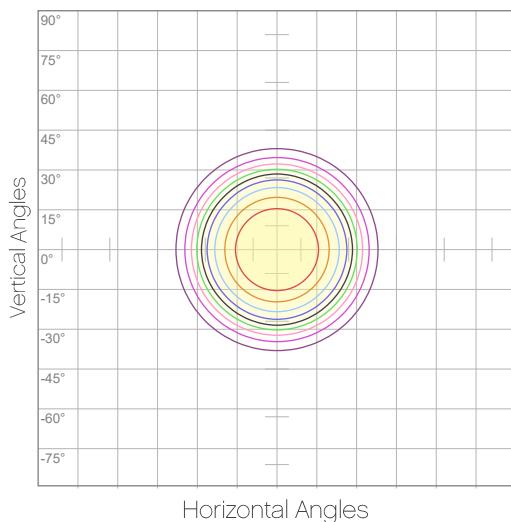
| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Lux | 4287 | 1072 | 476 | 268 | 171 | 119 | 87 | 67 | 53 | 43 |
| Distance | 11m | 12m | 13m | 14m | 15m | 16m | 17m | 18m | 19m | 20m |
| Lux | 35 | 30 | 25 | 22 | 19 | 17 | 15 | 13 | 12 | 11 |
| Distance | 3.3ft | 6.6ft | 9.8ft | 13.1ft | 16.4ft | 19.7ft | 23ft | 26.2ft | 29.5ft | 32.8ft |
| FC | 398 | 100 | 44 | 25 | 16 | 11 | 8 | 6 | 5 | 4 |
| Distance | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| FC | 3 | 3 | 2 | 2 | 2 | 2 | 1 | 1 | 1 | 1 |

Photometric Report

Ovation H-55WW: 65deg lens, Full Power
Candela Plot



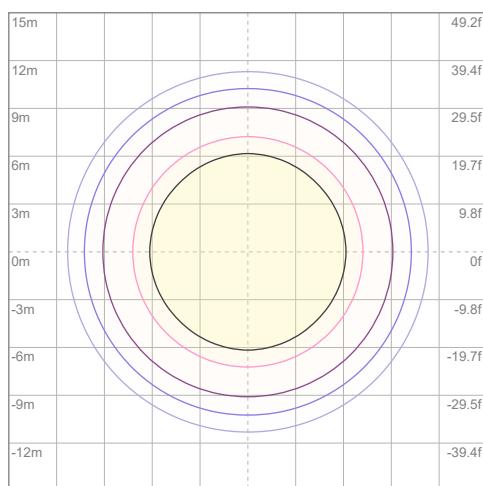
Polar Diagrams



iso-candela Diagram

| | |
|-----|---------|
| 10% | 429 cd |
| 20% | 857 cd |
| 30% | 1286 cd |
| 40% | 1715 cd |
| 50% | 2144 cd |
| 60% | 2572 cd |
| 70% | 3001 cd |
| 80% | 3430 cd |
| 90% | 3858 cd |

Conditions:
Number of c-planes: 8
Candela at center: 4287 cd



iso-illuminance Diagram

| | |
|-----|---------|
| 3% | 1.29 lx |
| 5% | 2.14 lx |
| 10% | 4.29 lx |
| 30% | 12.9 lx |
| 50% | 21.4 lx |

Conditions:
Number of c-planes: 8
Lux at center: 42.9 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ovation H-55WW: 45deg lens, Full Power

Report Summary

Output

Total Lumens: 3978 lm
Peak Intensity: 6573 cd
Illuminance @ 5m: 263 lux
Fixture Efficacy: 64 lm/W

Optical

Horizontal Beam Angle (50%): 37.7°
Vertical Beam Angle (50%): 37.7°
Horizontal Field Angle (10%): 76.4°
Vertical Field Angle (10%): 76.4°
Horizontal Cutoff Angle (3%): 113.4°
Vertical Cutoff Angle (3%): 113.4°

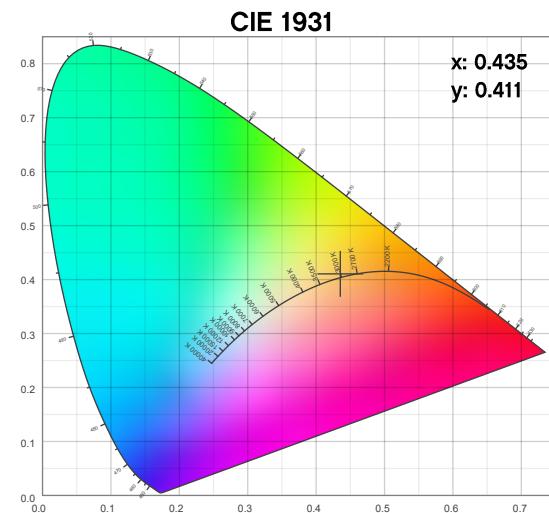
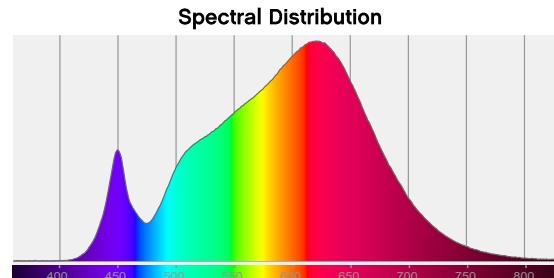
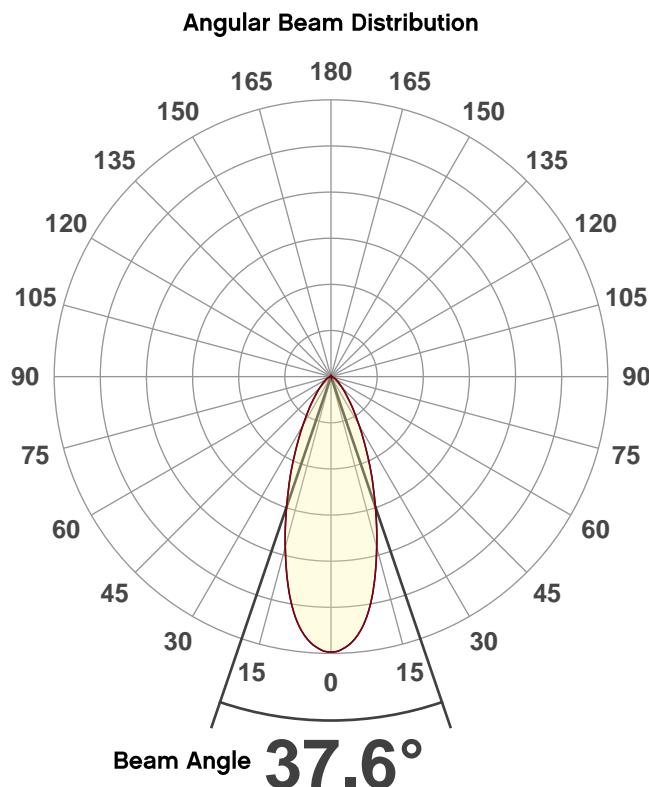
Conditions

AC Supply: 124 V, 60 Hz
Power: 62.52 W
Current: 0.503 A
Power Factor: 1.0



This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpon Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 11/13/2019 to LM-63-2002 Standards.

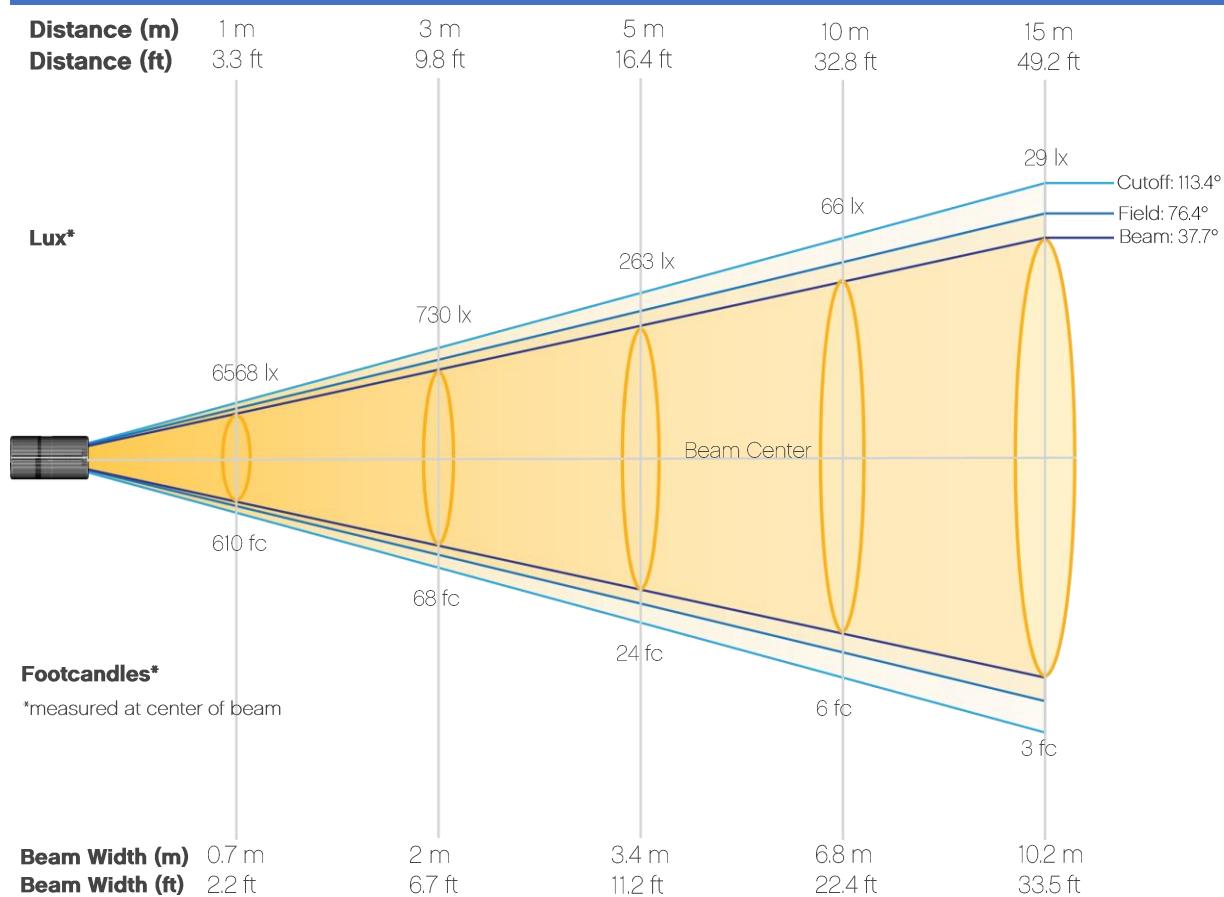
Overall Measurement



Photometric Report

Ovation H-55WW: 45deg lens, Full Power

Beam Details

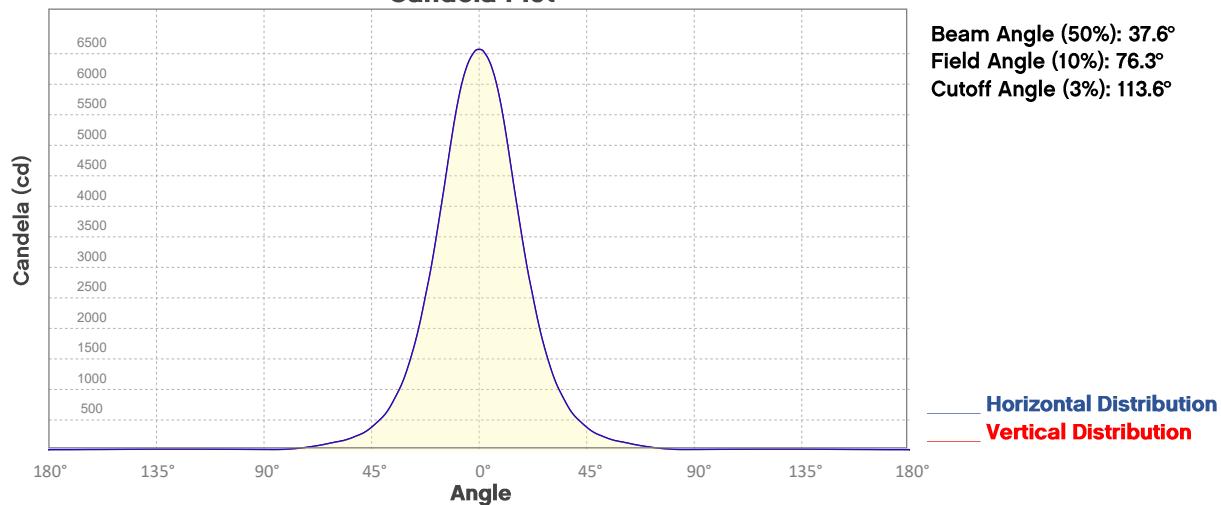


Beam Illuminances from 1-20m (3.3-65.6ft)

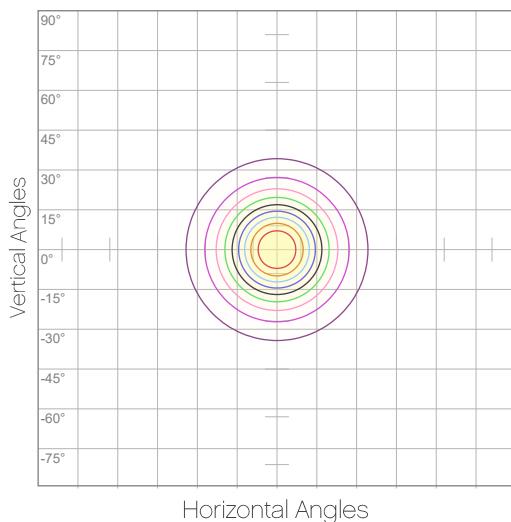
| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Lux | 6568 | 1642 | 730 | 410 | 263 | 182 | 134 | 103 | 81 | 66 |
| Distance | 11m | 12m | 13m | 14m | 15m | 16m | 17m | 18m | 19m | 20m |
| Lux | 54 | 46 | 39 | 34 | 29 | 26 | 23 | 20 | 18 | 16 |
| Distance | 3.3ft | 6.6ft | 9.8ft | 13.1ft | 16.4ft | 19.7ft | 23ft | 26.2ft | 29.5ft | 32.8ft |
| FC | 610 | 153 | 68 | 38 | 24 | 17 | 12 | 10 | 8 | 6 |
| Distance | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| FC | 5 | 4 | 4 | 3 | 3 | 2 | 2 | 2 | 2 | 2 |

Photometric Report

Ovation H-55WW: 45deg lens, Full Power
Candela Plot



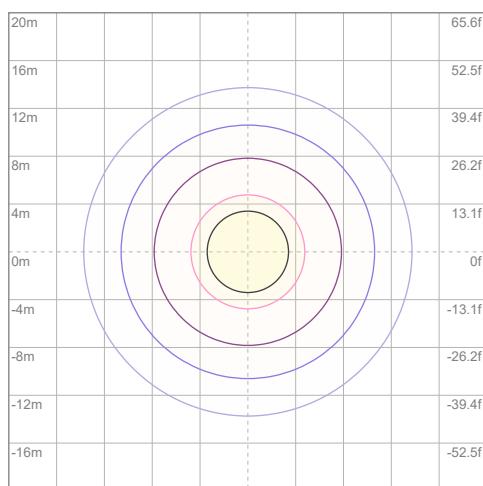
Polar Diagrams



iso-candela Diagram

| | |
|-----|---------|
| 10% | 657 cd |
| 20% | 1314 cd |
| 30% | 1970 cd |
| 40% | 2627 cd |
| 50% | 3284 cd |
| 60% | 3941 cd |
| 70% | 4597 cd |
| 80% | 5254 cd |
| 90% | 5911 cd |

Conditions:
Number of c-planes: 8
Candela at center: 6568 cd



iso-illuminance Diagram

| | |
|-----|---------|
| 3% | 1.97 lx |
| 5% | 3.28 lx |
| 10% | 6.57 lx |
| 30% | 19.7 lx |
| 50% | 32.8 lx |

Conditions:
Number of c-planes: 8
Lux at center: 65.7 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ovation H-55WW: 25deg lens, Full Power

Report Summary

Output

Total Lumens: 4188 lm

Peak Intensity: 17827 cd

Illuminance @ 5m: 712 lux

Fixture Efficacy: 68 lm/W



Optical

Horizontal Beam Angle (50%): 24.6°

Vertical Beam Angle (50%): 24.6°

Horizontal Field Angle (10%): 40.9°

Vertical Field Angle (10%): 40.8°

Horizontal Cutoff Angle (3%): 65.5°

Vertical Cutoff Angle (3%): 65.6°

Conditions

AC Supply: 124 V, 60 Hz

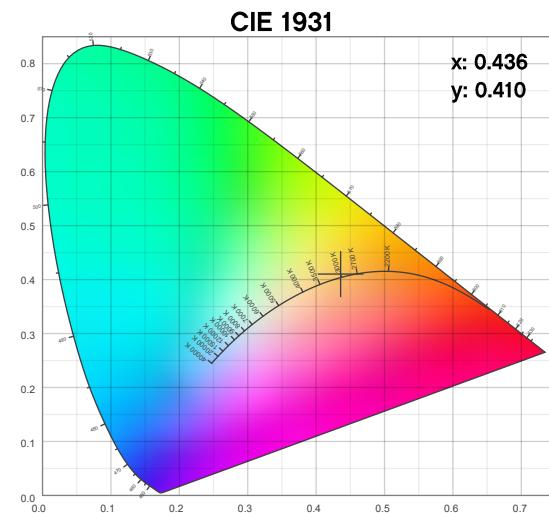
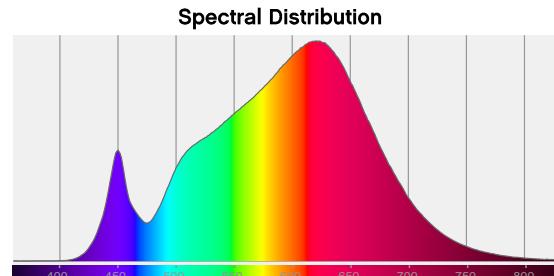
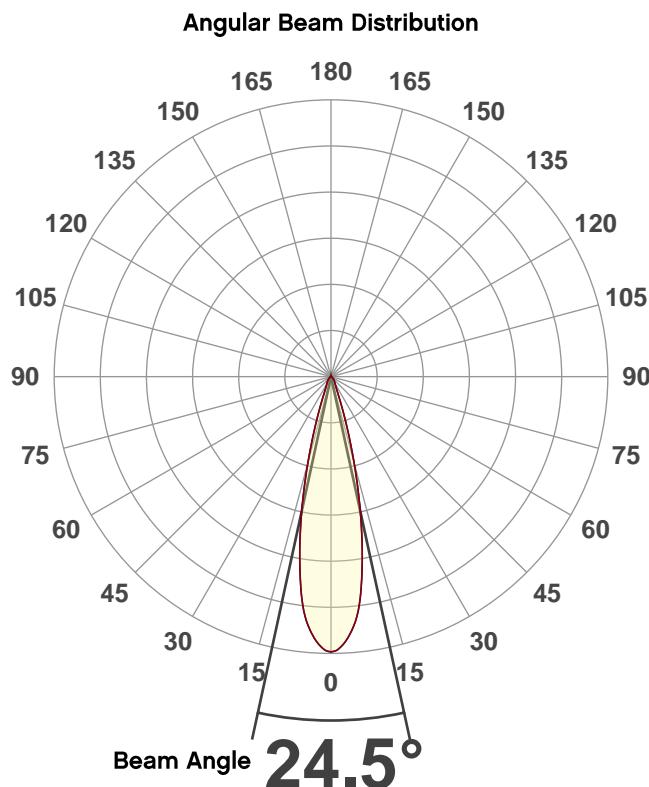
Power: 61.97 W

Current: 0.499 A

Power Factor: 1.0

This data sheet conforms to American National Standard E1.19 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpon Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 11/13/2019 to LM-63-2002 Standards.

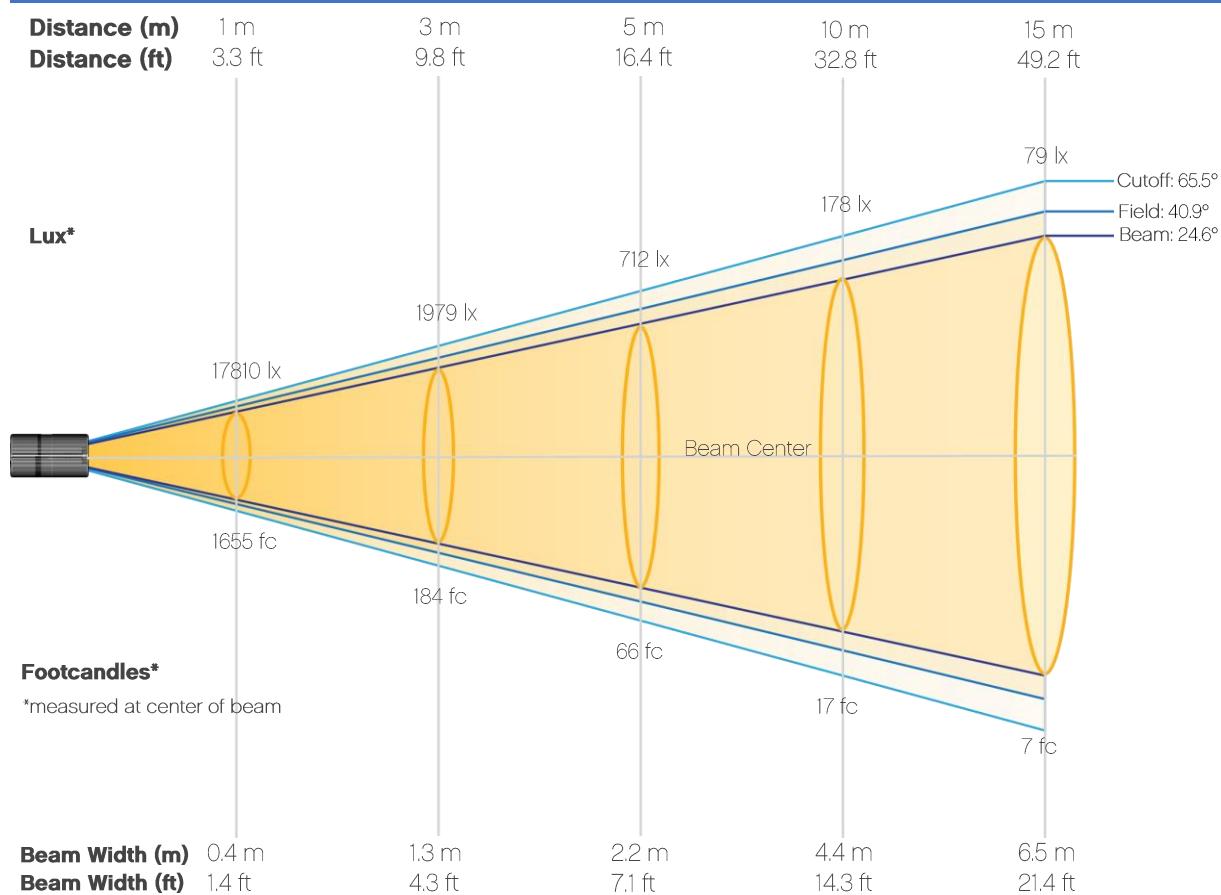
Overall Measurement



Photometric Report

Ovation H-55WW: 25deg lens, Full Power

Beam Details

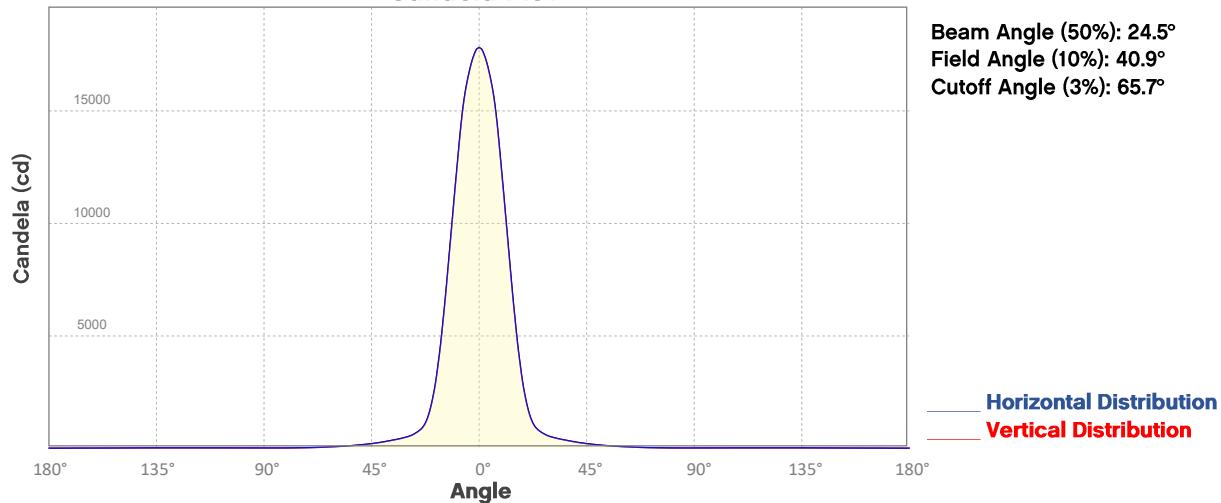


Beam Illuminances from 1-20m (3.3-65.6ft)

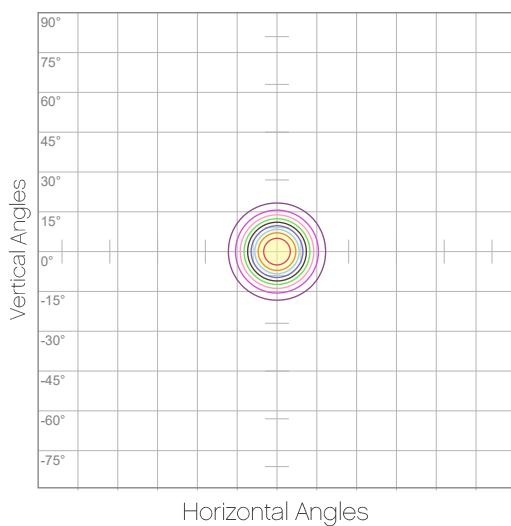
| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Lux | 17810 | 4453 | 1979 | 1113 | 712 | 495 | 363 | 278 | 220 | 178 |
| Distance | 11m | 12m | 13m | 14m | 15m | 16m | 17m | 18m | 19m | 20m |
| Lux | 147 | 124 | 105 | 91 | 79 | 70 | 62 | 55 | 49 | 45 |
| Distance | 3.3ft | 6.6ft | 9.8ft | 13.1ft | 16.4ft | 19.7ft | 23ft | 26.2ft | 29.5ft | 32.8ft |
| FC | 1655 | 414 | 184 | 103 | 66 | 46 | 34 | 26 | 20 | 17 |
| Distance | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| FC | 14 | 11 | 10 | 8 | 7 | 6 | 6 | 5 | 5 | 4 |

Photometric Report

Ovation H-55WW: 25deg lens, Full Power
Candela Plot



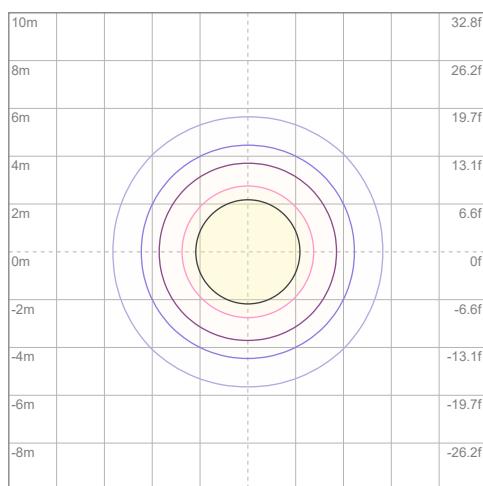
Polar Diagrams



iso-candela Diagram

| | |
|-----|----------|
| 10% | 1781 cd |
| 20% | 3562 cd |
| 30% | 5343 cd |
| 40% | 7124 cd |
| 50% | 8905 cd |
| 60% | 10686 cd |
| 70% | 12467 cd |
| 80% | 14248 cd |
| 90% | 16029 cd |

Conditions:
Number of c-planes: 8
Candela at center: 17810 cd



iso-illuminance Diagram

| | |
|-----|---------|
| 3% | 5.34 lx |
| 5% | 8.91 lx |
| 10% | 17.8 lx |
| 30% | 53.4 lx |
| 50% | 89.1 lx |

Conditions:
Number of c-planes: 8
Lux at center: 178 lx

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

Mounting height: 10 meters / 33 feet

Chromaticity Report

Ovation H-55WW: Full Power-Stable

Report Summary

Measurements

Total Lumens: 4161 lm

Peak Intensity: 4114 cd

Fixture Efficacy: 70 lm/W

Correlated Color Temperature: 3083K

Δu_v : 0.0024

CRI: 91.7 CRI R9 Value: 54.1

CQS: 90.9

TLCI: 90

TM-30-18 Rf: 92.1

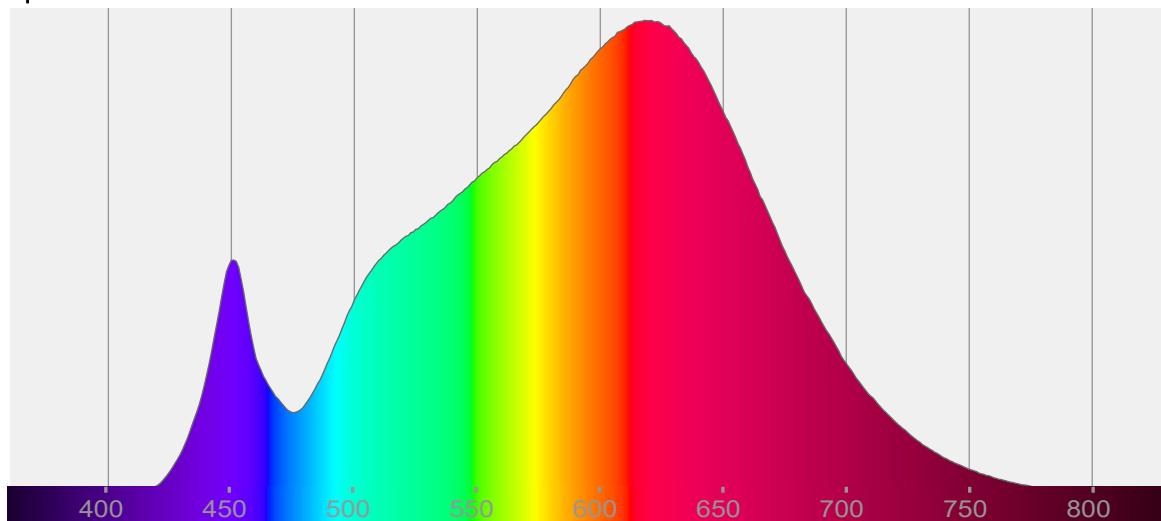
TM-30-18 Rg: 99.1

1st Dominant Wavelength: 618 nm

2nd Dominant Wavelength: 451 nm



Spectral Distribution



Tested Color

3083 K

CIE 1931 Coordinates:

X: 0.435 Y: 0.409

Color Temperature

3083 K

Light Quality

CRI: 91.7

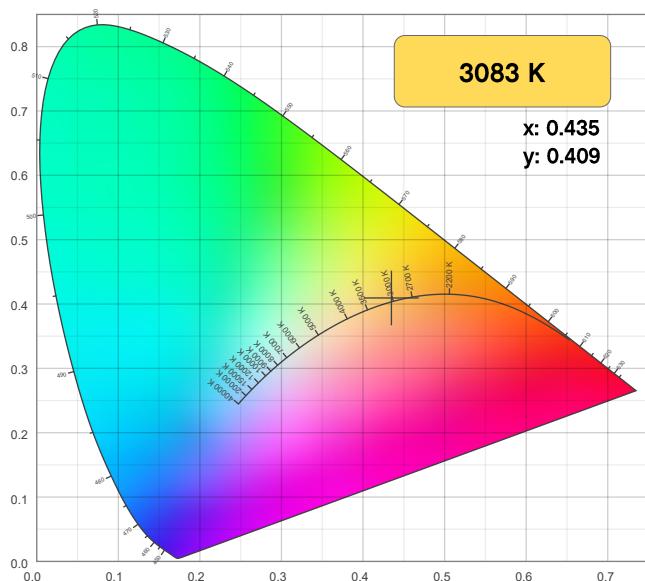
Notes:

Chromaticity Report

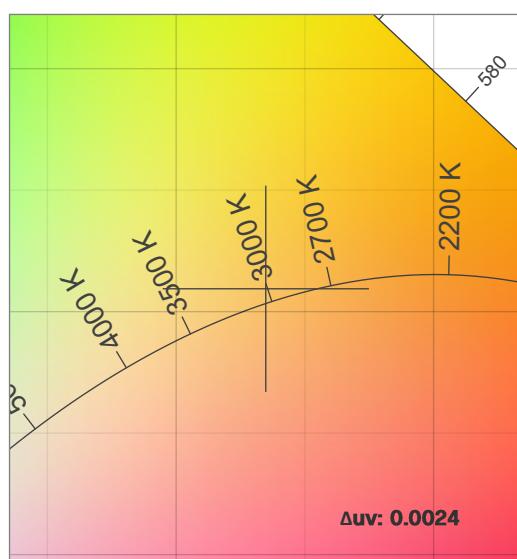
Ovation H-55WW: Full Power-Stable

Chromaticity

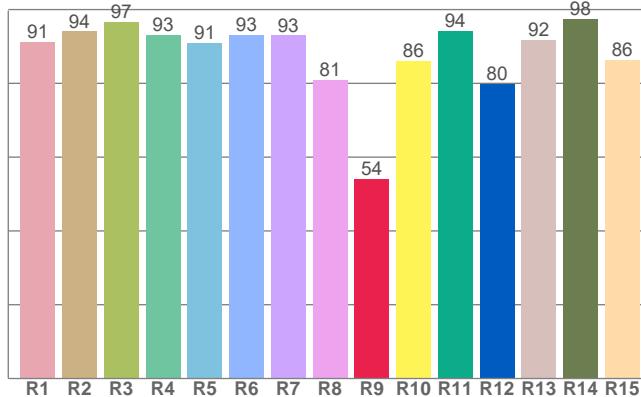
CIE 1931



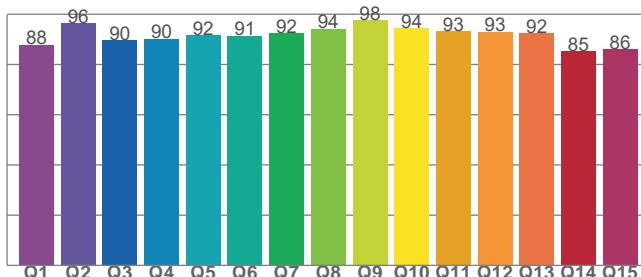
CIE 1931 - Zoom



CRI: 91.7 (R1-R8)



CQS: 90.9



Color Parameters

| Color Temperature | Color Coordinate CIE 1931 | Color Coordinate CIE 1931 |
|-------------------|---------------------------|---------------------------|
| CCT | x | y |
| 3083 K | 0.435 | 0.409 |

| Color Deviation from Black Body Curve | Color Coordinate CIE 1964 | Color Coordinate CIE 1964 |
|---------------------------------------|---------------------------|---------------------------|
| Δuv | y | u |
| 0.0024 | 0.409 | 0.247 |

| Color Rendering Index | Red Component | Color Quality Scale |
|-----------------------|---------------|---------------------|
| CRI | CRI - R9 | CQS |
| 91.7 | 54.1 | 90.9 |

| Television Lighting Consistency Index | Color Fidelity | Color Gamut |
|---------------------------------------|----------------|-------------|
| TLCI | TM-30-18 - Rf | TM-30-18 Rg |
| 90 | 921 | 99.1 |

Chromaticity Report

Ovation H-55WW: Full Power-Stable

TM-30-18 Details

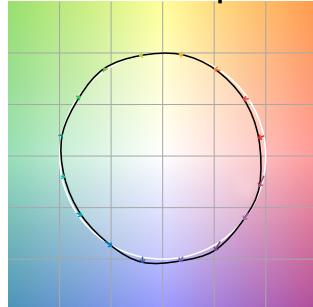
Rf 92.1

Fidelity Index
(Rg)

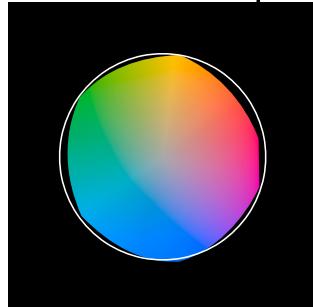
Rg 99.1

Gamut Index (Rg)

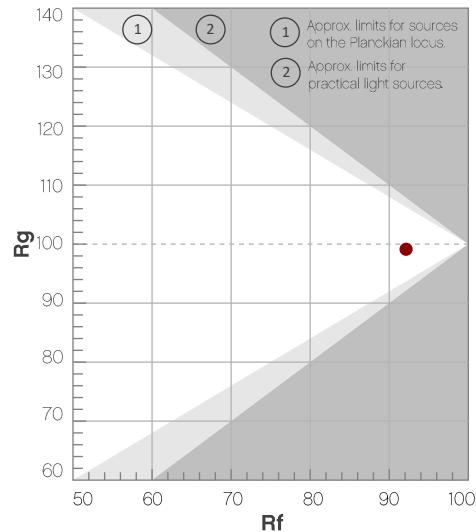
Color Vector Graphic



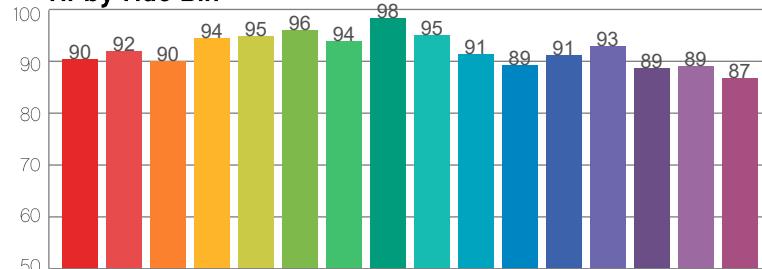
Color Distortion Graphic



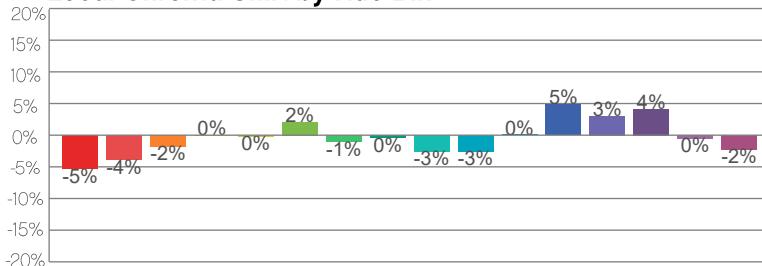
| Hue Bin | R _f | Chroma Shift | Hue Shift |
|---------|----------------|--------------|-----------|
| 1 | 90 | -5% | -1% |
| 2 | 92 | -4% | 2% |
| 3 | 90 | -2% | 5% |
| 4 | 94 | 0% | 3% |
| 5 | 95 | 0% | 3% |
| 6 | 96 | 2% | 0% |
| 7 | 94 | -1% | -3% |
| 8 | 98 | 0% | -1% |
| 9 | 95 | -3% | 1% |
| 10 | 91 | -3% | 4% |
| 11 | 89 | 0% | 7% |
| 12 | 91 | 5% | 1% |
| 13 | 93 | 3% | -4% |
| 14 | 89 | 4% | -8% |
| 15 | 89 | 0% | -7% |
| 16 | 87 | -2% | -10% |



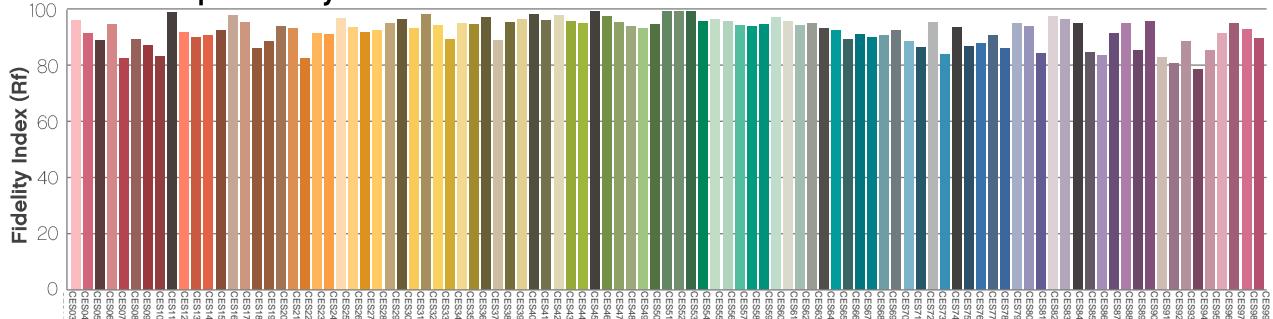
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



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All product specifications, measurements and dimensions are subject to change without notice

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