

PHOTOMETRICS REPORT

COLORADO 1 QUAD



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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

COLORado1 Quad: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 2839 lm
Peak Intensity: 34700 cd
Illuminance @ 5m: 1385 lux
Fixture Efficacy: 44 lm/W

Optical

Horizontal Beam Angle (50%): 14.1°
Vertical Beam Angle (50%): 14.2°
Horizontal Field Angle (10%): 27.2°
Vertical Field Angle (10%): 27.5°
Horizontal Cutoff Angle (3%): 36°
Vertical Cutoff Angle (3%): 36.2°

Conditions

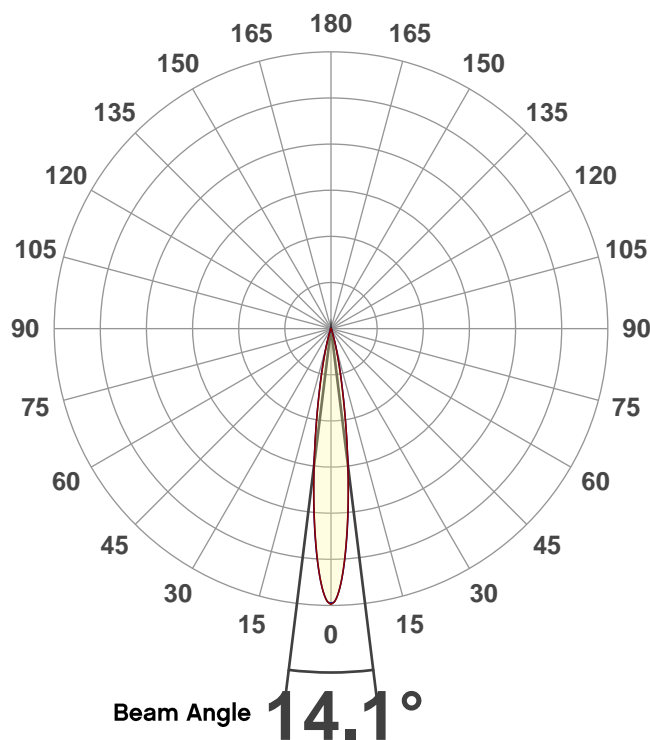
AC Supply: 119 V, 60 Hz
Power: 98.07 W
Current: 0.826 A
Power Factor: 0.66



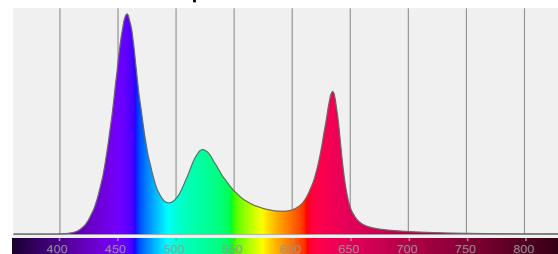
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 7/31/2019 to LM-63-2002 Standards.

Overall Measurement

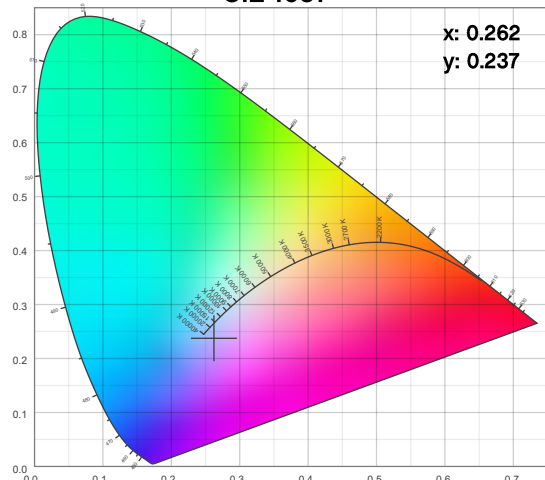
Angular Beam Distribution



Spectral Distribution



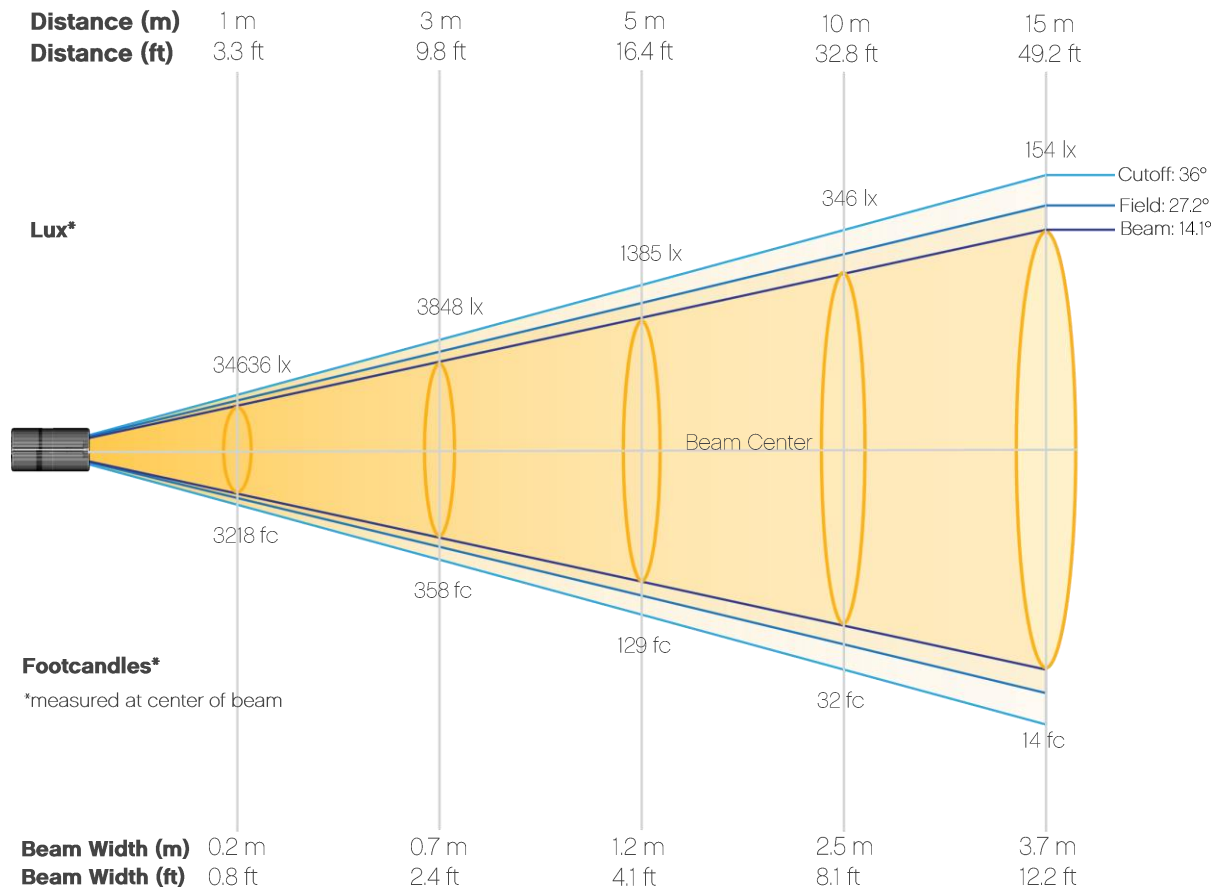
CIE 1931



Photometric Report

COLORado1 Quad: Standard Optics, Full Power

Beam Details



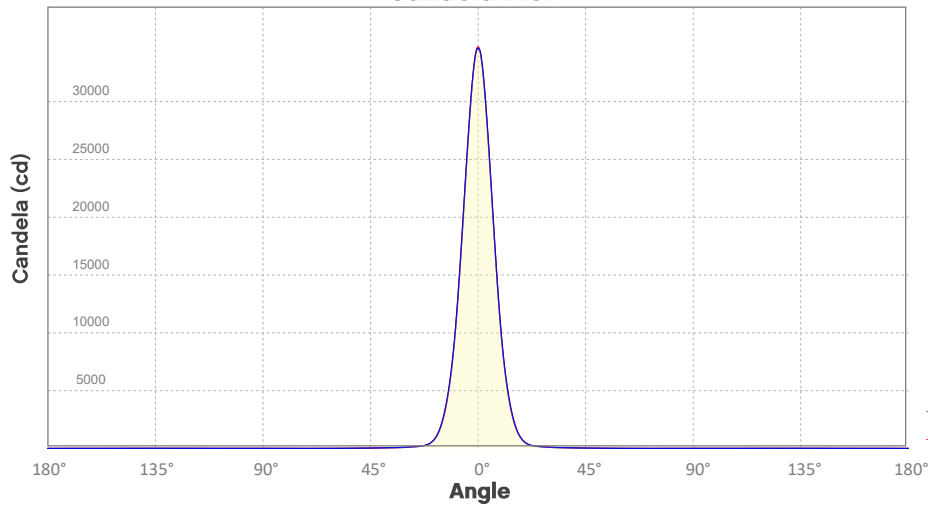
Beam Illuminances from 1-20m (3.3-65.6ft)

| | | | | | | | | | | |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
| Lux | 34636 | 8659 | 3848 | 2165 | 1385 | 962 | 707 | 541 | 428 | 346 |
| Distance | 11m | 12m | 13m | 14m | 15m | 16m | 17m | 18m | 19m | 20m |
| Lux | 286 | 241 | 205 | 177 | 154 | 135 | 120 | 107 | 96 | 87 |
| Distance | 3.3ft | 6.6ft | 9.8ft | 13.1ft | 16.4ft | 19.7ft | 23ft | 26.2ft | 29.5ft | 32.8ft |
| FC | 3218 | 804 | 358 | 201 | 129 | 89 | 66 | 50 | 40 | 32 |
| Distance | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| FC | 27 | 22 | 19 | 16 | 14 | 13 | 11 | 10 | 9 | 8 |

Photometric Report

COLORado1 Quad: Standard Optics, Full Power

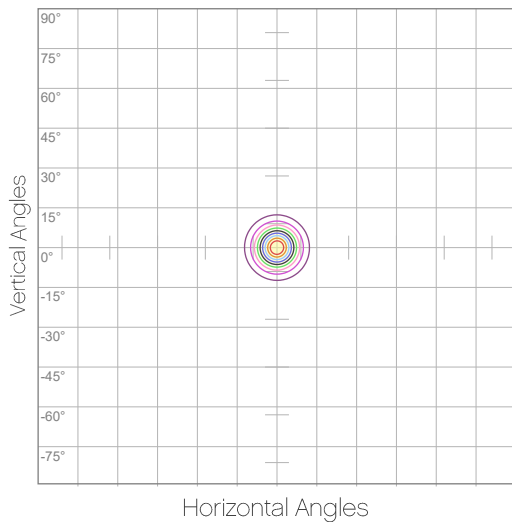
Candela Plot



Beam Angle (50%): 14.1°
Field Angle (10%): 27.3°
Cutoff Angle (3%): 36°

— Horizontal Distribution
— Vertical Distribution

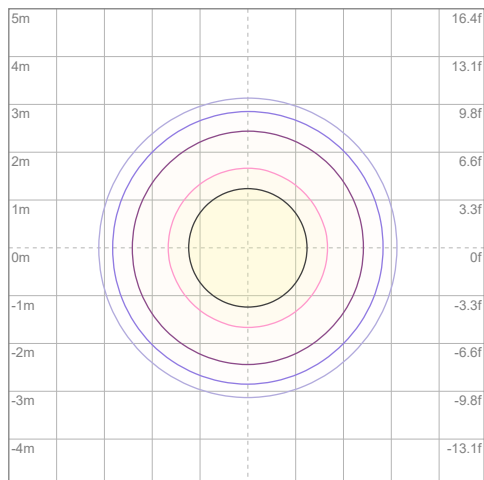
Polar Diagrams



iso-candela Diagram

| | |
|-----|----------|
| 10% | 3464 cd |
| 20% | 6927 cd |
| 30% | 10391 cd |
| 40% | 13855 cd |
| 50% | 17318 cd |
| 60% | 20782 cd |
| 70% | 24245 cd |
| 80% | 27709 cd |
| 90% | 31173 cd |

Conditions:
Number of c-planes: 8
Candela at center: 34636 cd



iso-illuminance Diagram

| | |
|-----|---------|
| 3% | 10.4 lx |
| 5% | 17.3 lx |
| 10% | 34.6 lx |
| 30% | 104 lx |
| 50% | 173 lx |

Conditions:
Number of c-planes: 8
Lux at center: 346 lx

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

Mounting height: 10 meters / 33 feet

Contact Us

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|--|--|
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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.