

PHOTOMETRICS REPORT

COLORdash Per-Quad 7



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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

COLORDash Par-Quad 7: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 1768 lm
Peak Intensity: 13816 cd
Illuminance @ 5m: 552 lux
Fixture Efficacy: 40 lm/W

Optical

Horizontal Beam Angle (50%): 17.9°
Vertical Beam Angle (50%): 17.7°
Horizontal Field Angle (10%): 33.3°
Vertical Field Angle (10%): 33.1°
Horizontal Cutoff Angle (3%): 47.7°
Vertical Cutoff Angle (3%): 47.3°

Conditions

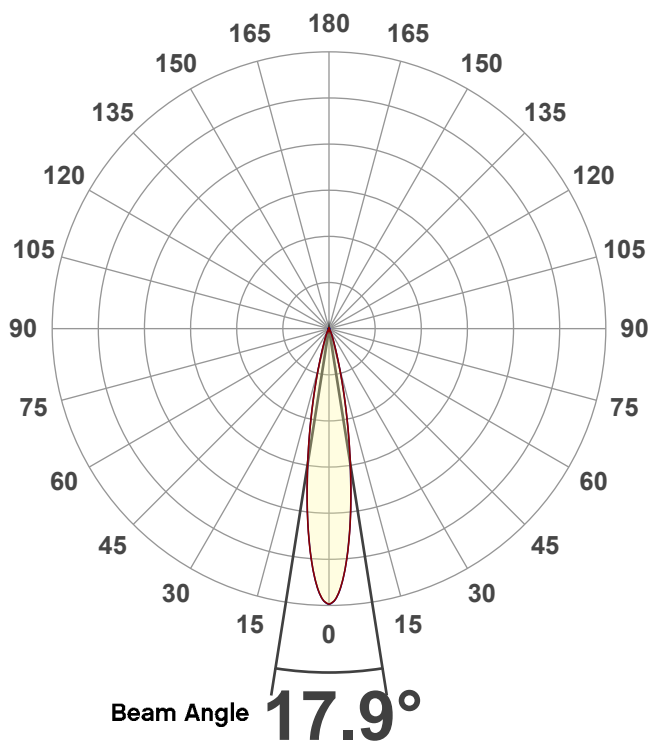
AC Supply: 120 V, 60 Hz
Power: 67.56 W
Current: 0.563 A
Power Factor: 0.66



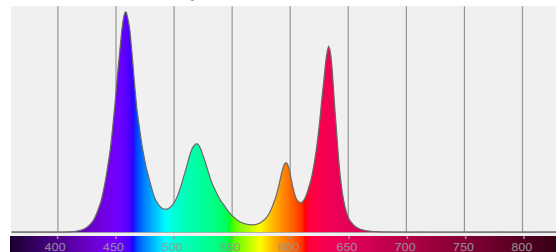
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/20/2020 to LM-63-2002 Standards.

Overall Measurement

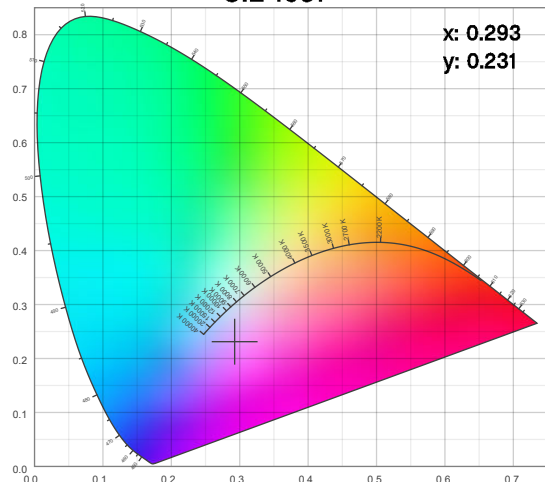
Angular Beam Distribution



Spectral Distribution



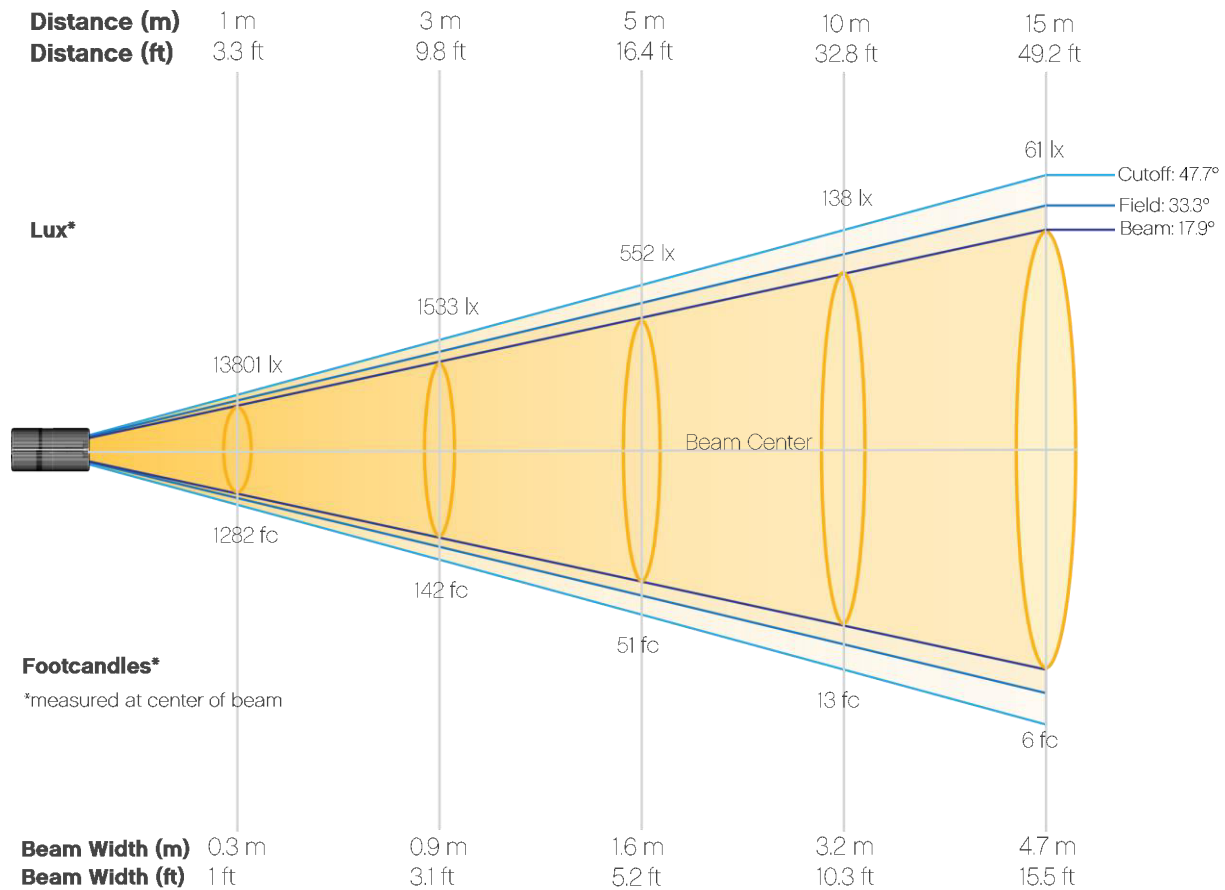
CIE 1931



Photometric Report

COLORDash Par-Quad 7: Standard Optics, Full Power

Beam Details

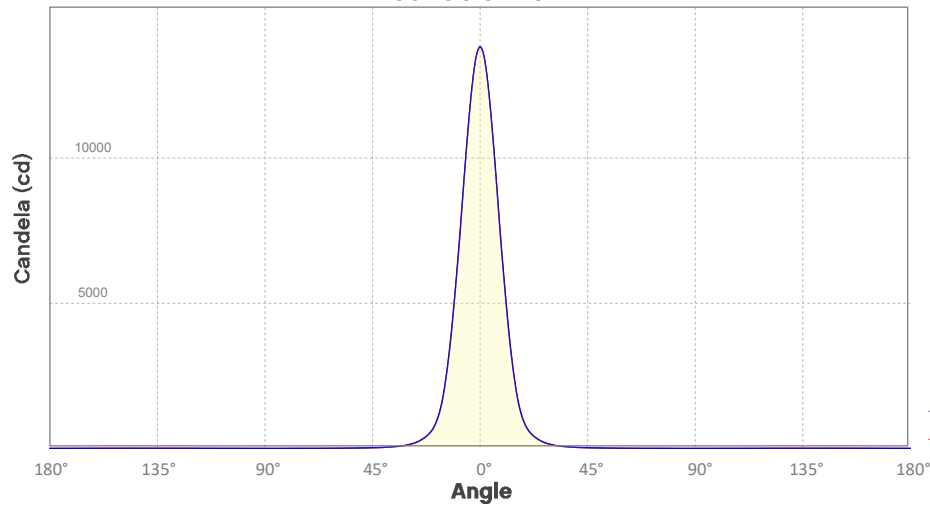


Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	13801	3450	1533	863	552	383	282	216	170	138
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	114	96	82	70	61	54	48	43	38	35
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1282	321	142	80	51	36	26	20	16	13
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	11	9	8	7	6	5	4	4	4	3

Photometric Report

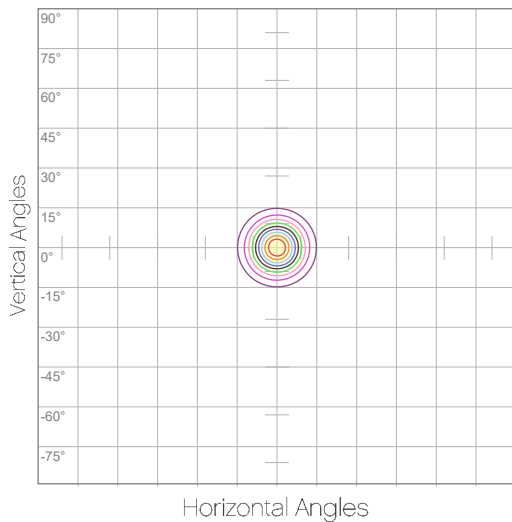
COLORDash Par-Quad 7: Standard Optics, Full Power
Candela Plot



Beam Angle (50%): 17.9°
Field Angle (10%): 33.2°
Cutoff Angle (3%): 47.5°

— Horizontal Distribution
— Vertical Distribution

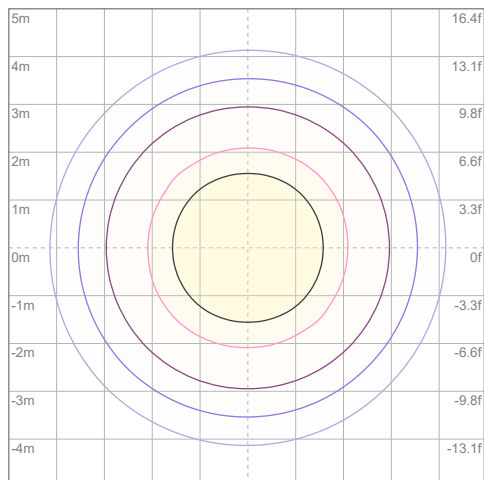
Polar Diagrams



iso-candela Diagram

10%	1380 cd
20%	2760 cd
30%	4140 cd
40%	5520 cd
50%	6900 cd
60%	8280 cd
70%	9661 cd
80%	11041 cd
90%	12421 cd

Conditions:
Number of c-planes: 8
Candela at center: 13801 cd



iso-illuminance Diagram

3%	4.14 lx
5%	6.90 lx
10%	13.8 lx
30%	41.4 lx
50%	69.0 lx

Conditions:
Number of c-planes: 8
Lux at center: 138 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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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.