PHOTOMETRICS REPORT

COLORado Batten 72X

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

COLORado Batten 72X: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 7877 lm
Peak Intensity: 42892 cd
Illuminance @ 5m: 1712 lux
Fixture Efficacy: 47 lm/W

Optical

Horizontal Beam Angle (50%): 21.3°
Vertical Beam Angle (50%): 20.4°
Horizontal Field Angle (10%): 39.6°
Vertical Field Angle (10%): 37.9°
Horizontal Cutoff Angle (3%): 52.4°
Vertical Cutoff Angle (3%): 50.6°

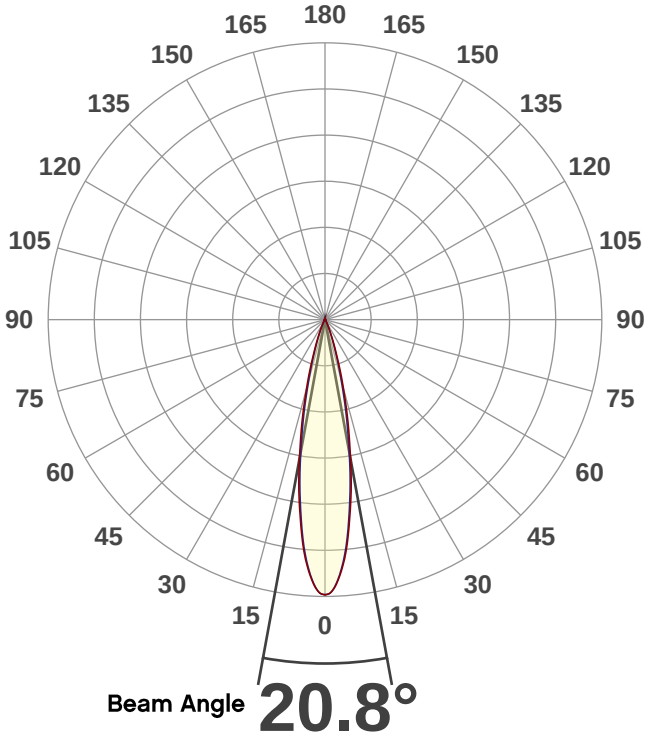
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 170.6 W
Current: 1.44 A
Power Factor: 0.99

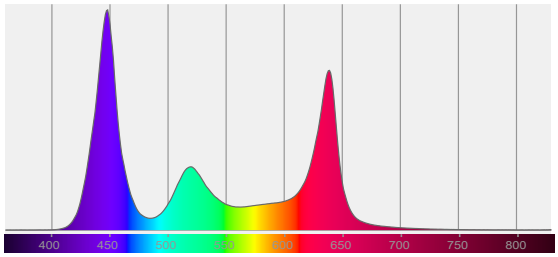
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/17/2020 to LM-63-2002 Standards.

Overall Measurement

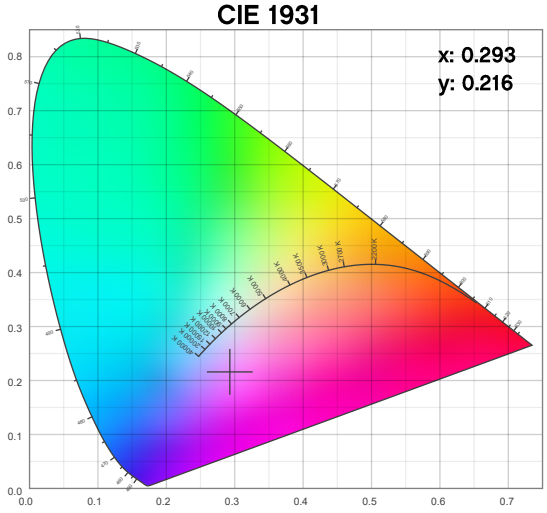
Angular Beam Distribution



Spectral Distribution



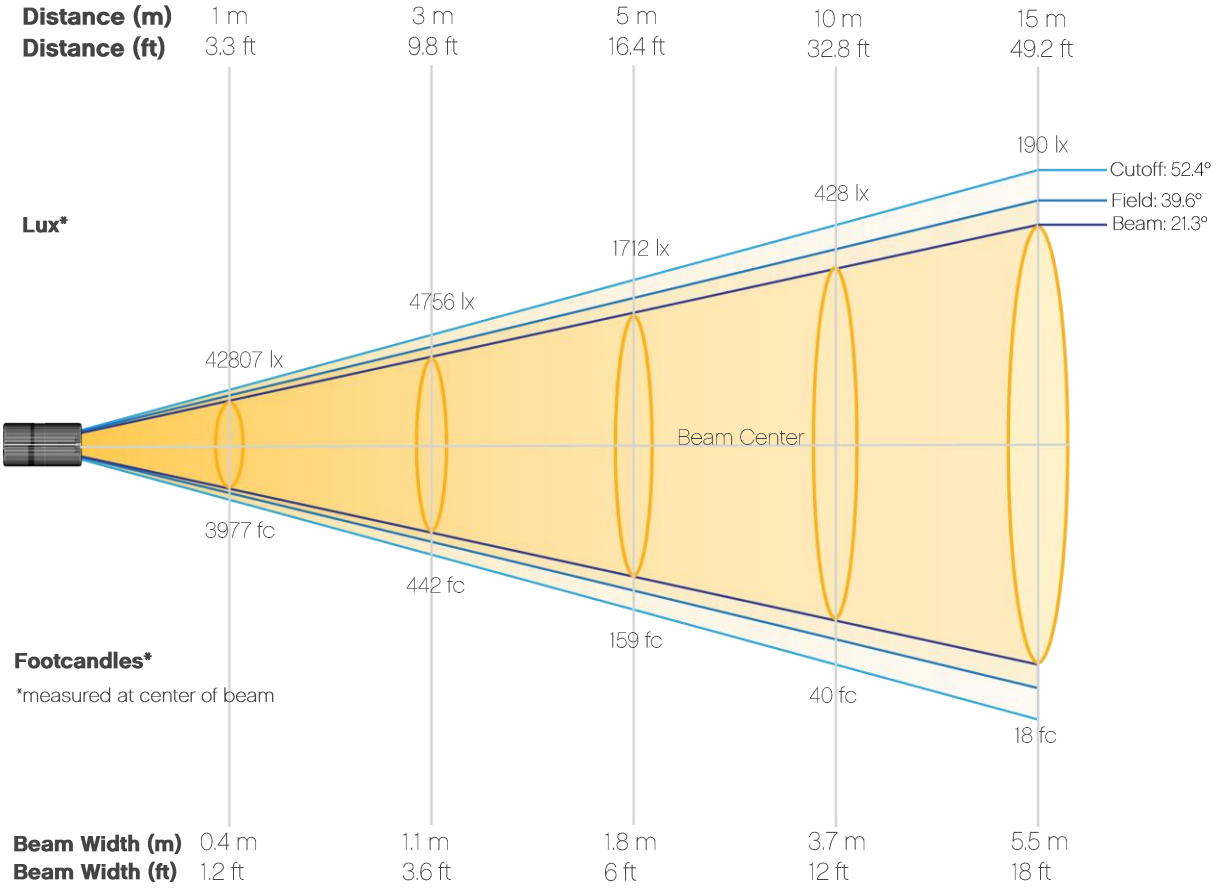
CIE 1931



Photometric Report

COLORado Batten 72X: Standard Optics, Full Power

Beam Details



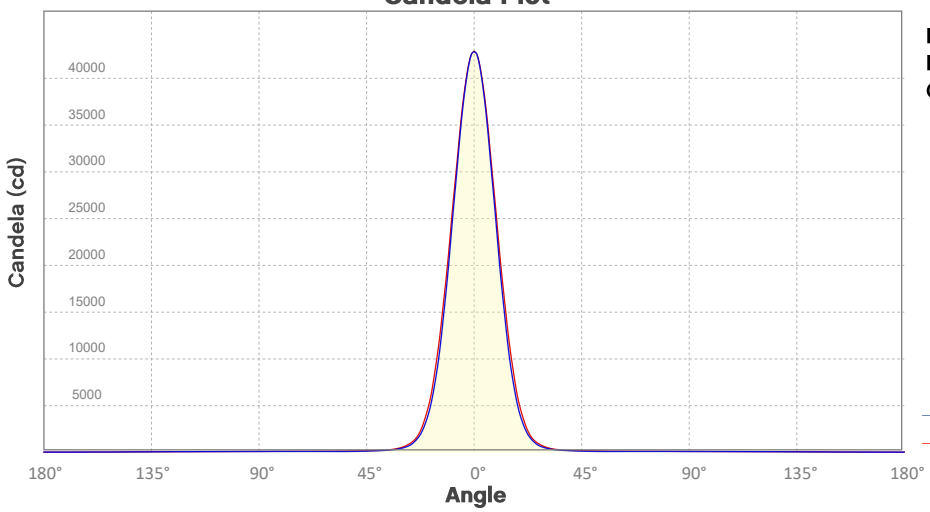
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	42807	10702	4756	2675	1712	1189	874	669	528	428
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	354	297	253	218	190	167	148	132	119	107
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	3977	994	442	249	159	110	81	62	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

COLORado Batten 72X: Standard Optics, Full Power

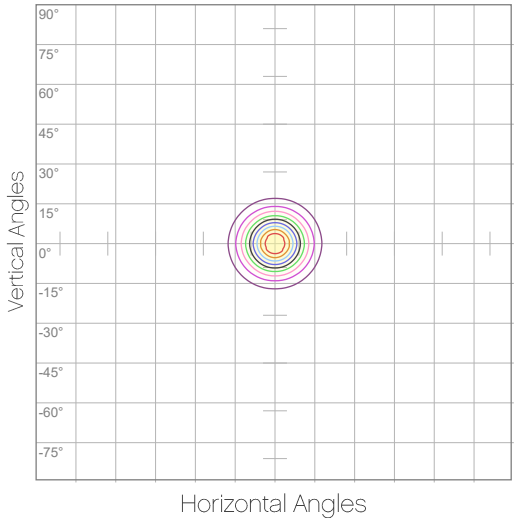
Candela Plot



Beam Angle (50%): 20.8°
Field Angle (10%): 38.6°
Cutoff Angle (3%): 51.5°

Horizontal Distribution
Vertical Distribution

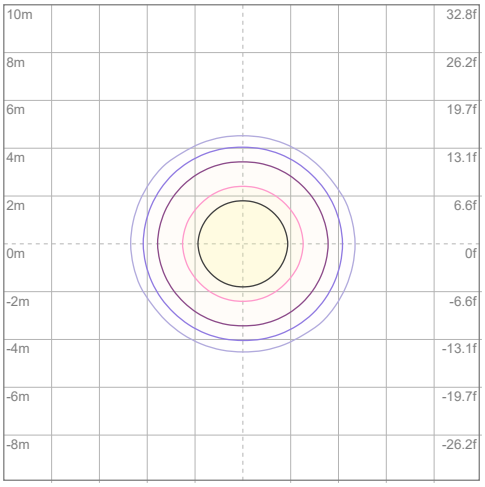
Polar Diagrams



iso-candela Diagram

	10%	4281 cd
	20%	8561 cd
	30%	12842 cd
	40%	17123 cd
	50%	21403 cd
	60%	25684 cd
	70%	29965 cd
	80%	34246 cd
	90%	38526 cd

Conditions:
Number of c-planes: 8
Candela at center: 42807 cd



iso-illuminance Diagram

	3%	12.8 lx
	5%	21.4 lx
	10%	42.8 lx
	30%	128 lx
	50%	214 lx

Conditions:
Number of c-planes: 8
Lux at center: 428 lx

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

Mounting height: 10 meters / 33 feet

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