PHOTOMETRICS REPORT

COLOR*dash* Par-H12 IP

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

COLORdash Par H12IP: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 3735 lm
Peak Intensity: 23654 cd
Illuminance @ 5m: 945 lux
Fixture Efficacy: 32 lm/W

Optical

Horizontal Beam Angle (50%): 22°
Vertical Beam Angle (50%): 22.2°
Horizontal Field Angle (10%): 35.6°
Vertical Field Angle (10%): 35.6°
Horizontal Cutoff Angle (3%): 46.6°
Vertical Cutoff Angle (3%): 46.7°

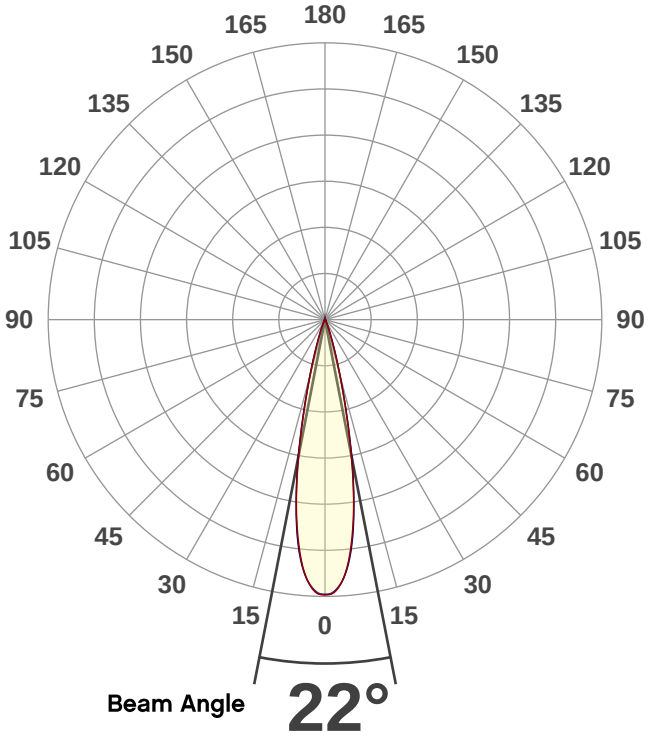
Conditions

AC Supply: 119 V, 60 Hz
Power: 117.87 W
Current: 0.993 A
Power Factor: 0.99

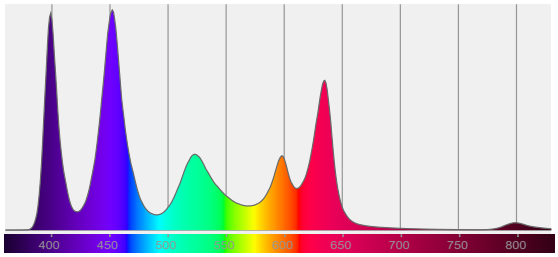
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/24/2020 to LM-63-2002 Standards.

Overall Measurement

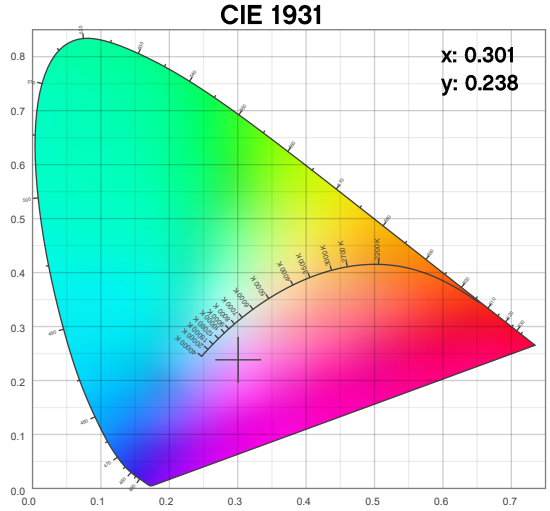
Angular Beam Distribution



Spectral Distribution



CIE 1931



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Photometric Report

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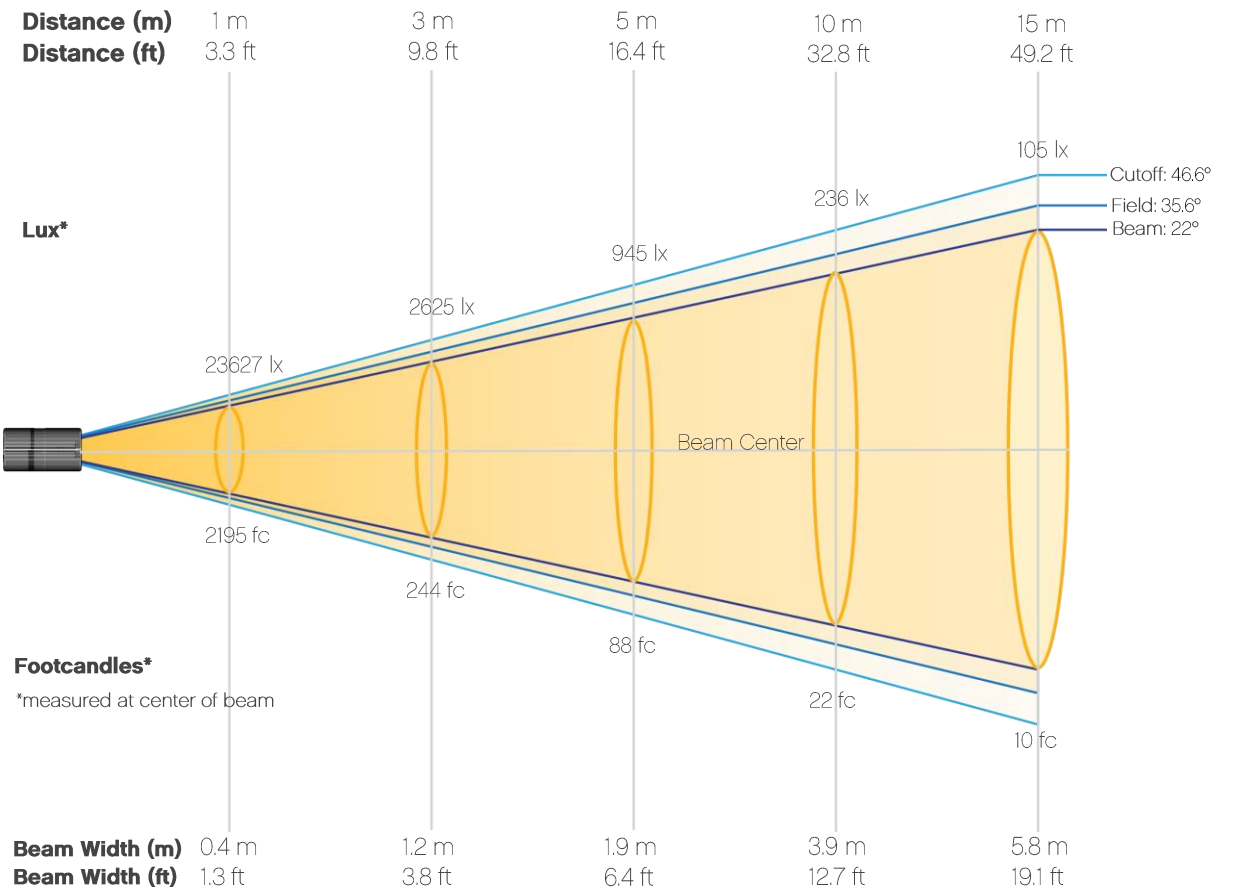
Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	23627	5907	2625	1477	945	656	482	369	292	236
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	195	164	140	121	105	92	82	73	65	59
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2195	549	244	137	88	61	45	34	27	22
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	18	15	13	11	10	9	8	7	6	5

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Photometric Report

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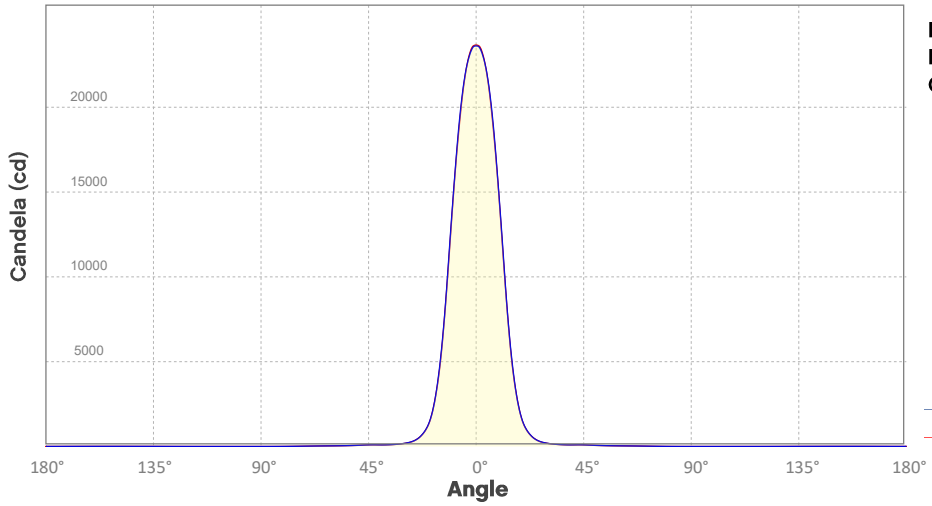
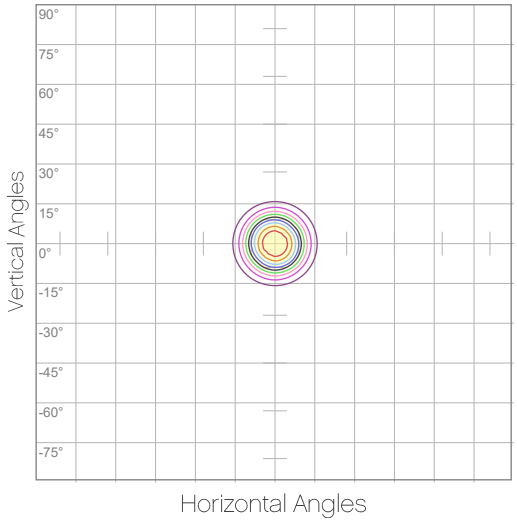
Candela Plot



Beam Angle (50%): 22°
Field Angle (10%): 35.6°
Cutoff Angle (3%): 46.6°

Horizontal Distribution
Vertical Distribution

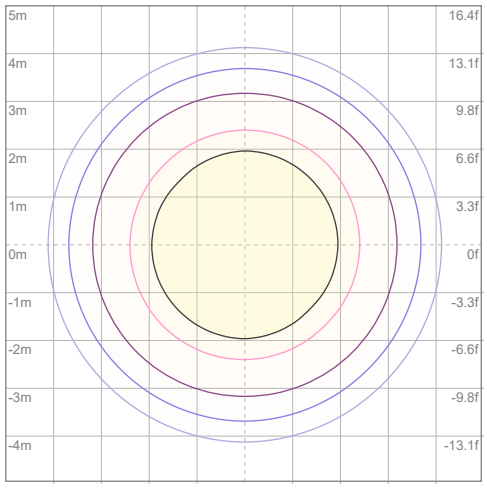
Polar Diagrams



iso-candela Diagram

10%	2363 cd
20%	4725 cd
30%	7088 cd
40%	9451 cd
50%	11813 cd
60%	14176 cd
70%	16539 cd
80%	18901 cd
90%	21264 cd

Conditions:
Number of c-planes: 8
Candela at center: 23627 cd



iso-illuminance Diagram

3%	7.09 lx
5%	11.8 lx
10%	23.6 lx
30%	70.9 lx
50%	118 lx

Conditions:
Number of c-planes: 8
Lux at center: 236 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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