PHOTOMETRICS REPORT

COLORADO 3 SOLO

CHAUVET PROFESSIONAL

Table of Contents

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 3 Solo: Full Flood, Full Power

Report Summary

Output

Total Lumens: 2010 lm
Peak Intensity: 3819 cd
Illuminance @ 5m: 153 lux
Fixture Efficacy: 11 lm/W

Optical

Horizontal Beam Angle (50%): 43.8°
Vertical Beam Angle (50%): 44.4°
Horizontal Field Angle (10%): 63.6°
Vertical Field Angle (10%): 63.1°
Horizontal Cutoff Angle (3%): 72°
Vertical Cutoff Angle (3%): 74.3°

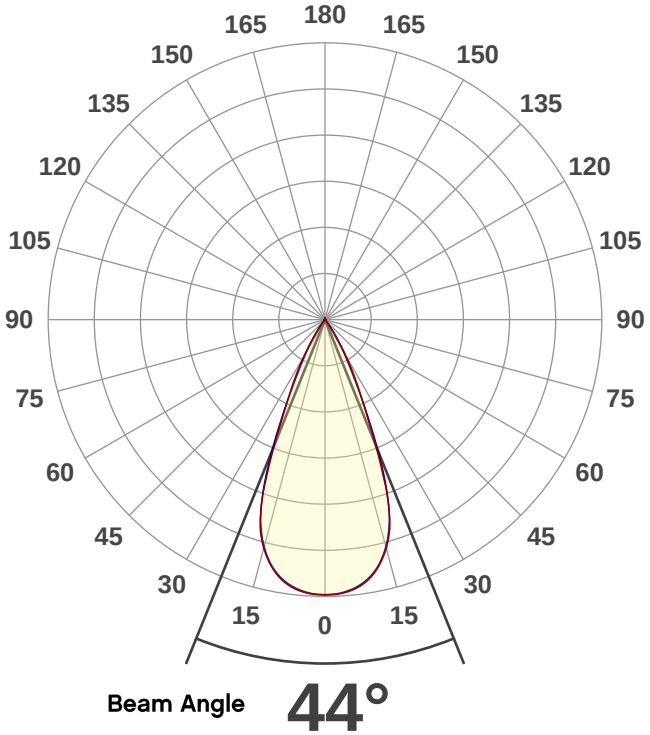
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 176.86 W
Current: 1.48 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 LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/14/2020 to LM-63-2002 Standards.

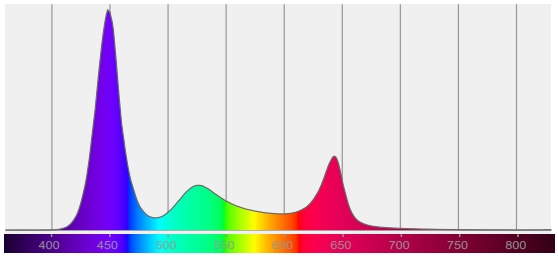
Overall Measurement

Angular Beam Distribution

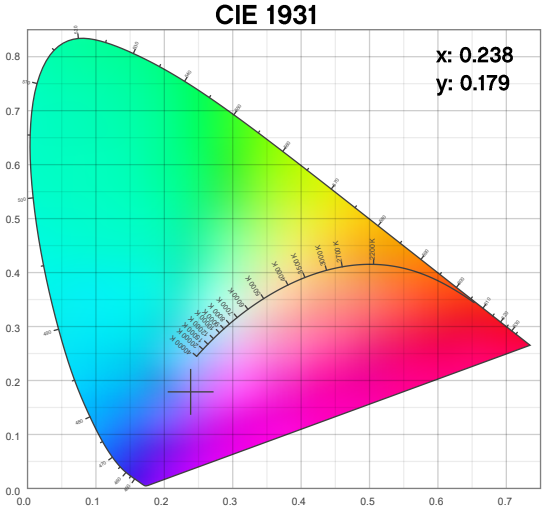


Beam Angle 44°

Spectral Distribution



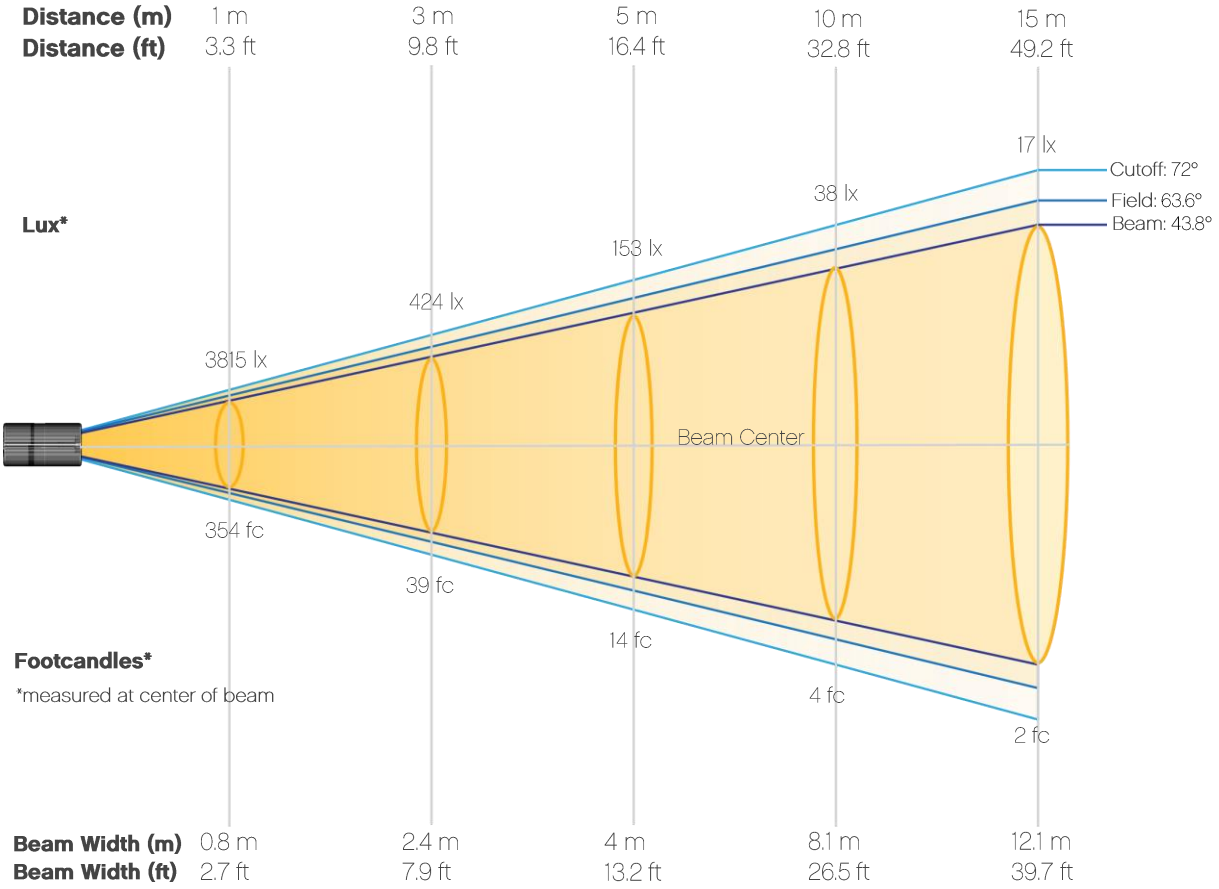
CIE 1931



Photometric Report

COLORado 3 Solo: Full Flood, Full Power

Beam Details



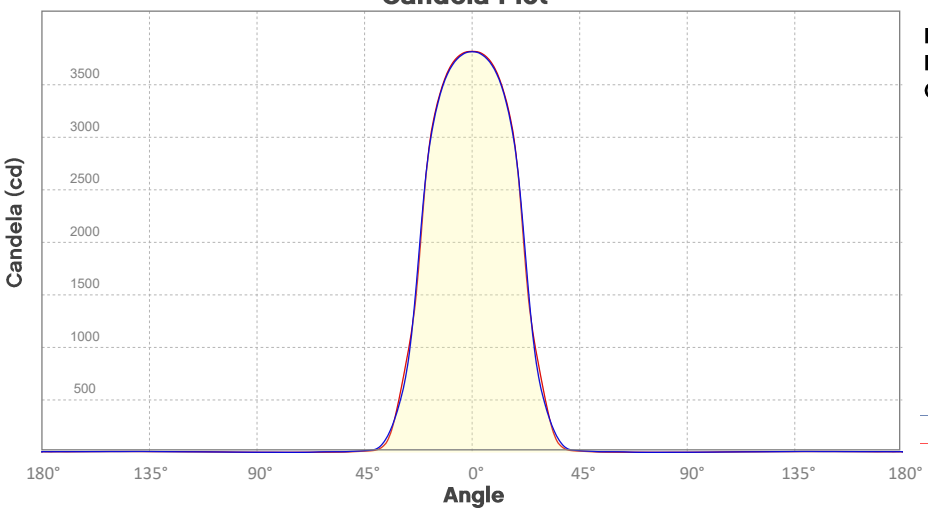
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3815	954	424	238	153	106	78	60	47	38
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	32	26	23	19	17	15	13	12	11	10
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	354	89	39	22	14	10	7	6	4	4
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	2	2	2	2	1	1	1	1	1

Photometric Report

COLORado 3 Solo: Full Flood, Full Power

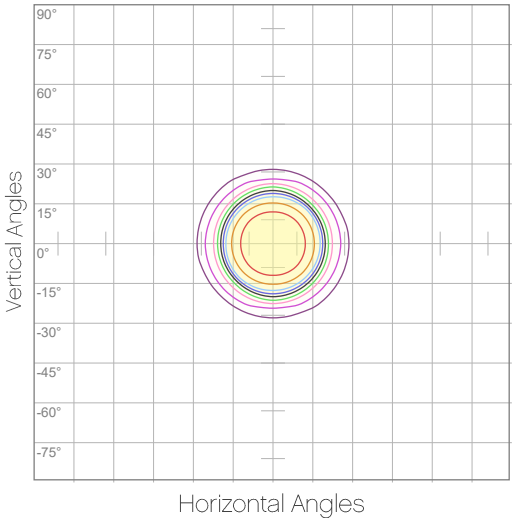
Candela Plot



Beam Angle (50%): 44°
Field Angle (10%): 63.2°
Cutoff Angle (3%): 73.3°

Horizontal Distribution
Vertical Distribution

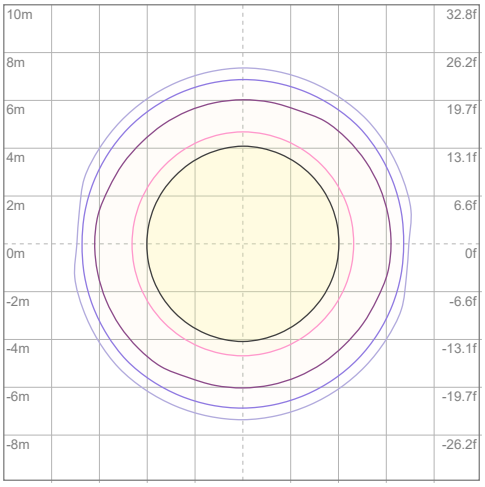
Polar Diagrams



iso-candela Diagram

	10%	382 cd
	20%	763 cd
	30%	1145 cd
	40%	1526 cd
	50%	1908 cd
	60%	2289 cd
	70%	2671 cd
	80%	3052 cd
	90%	3434 cd

Conditions:
Number of c-planes: 8
Candela at center: 3815 cd



iso-illuminance Diagram

	3%	1.14 lx
	5%	1.91 lx
	10%	3.82 lx
	30%	11.4 lx
	50%	19.1 lx

Conditions:
Number of c-planes: 8
Lux at center: 38.2 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORado 3 Solo: Full Spot, Full Power

Report Summary

Output

Total Lumens: 1874 lm
Peak Intensity: 164701 cd
Illuminance @ 5m: 6578 lux
Fixture Efficacy: 10 lm/W

Optical

Horizontal Beam Angle (50%): 5.6°
Vertical Beam Angle (50%): 5.5°
Horizontal Field Angle (10%): 9.8°
Vertical Field Angle (10%): 9.6°
Horizontal Cutoff Angle (3%): 12.3°
Vertical Cutoff Angle (3%): 12.1°

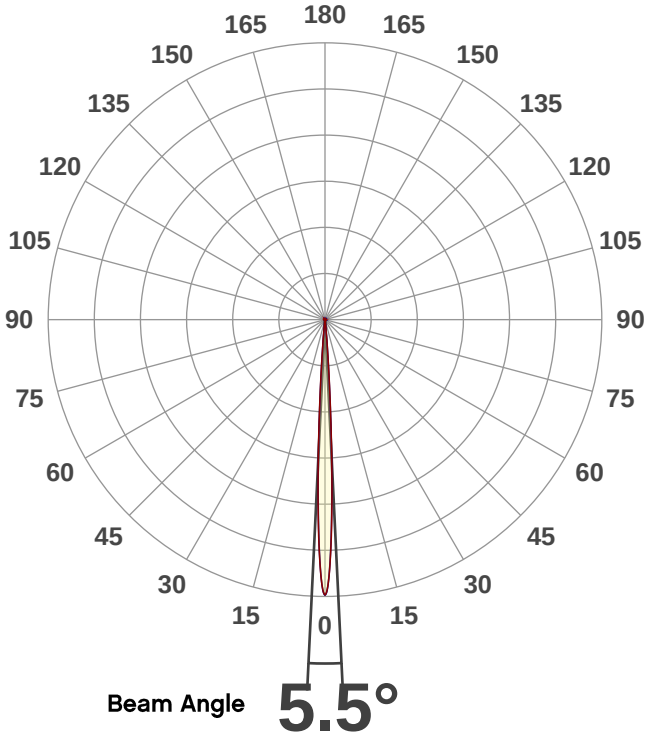
Conditions

AC Supply: 119 V, 60 Hz
Power: 184.05 W
Current: 1.54 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 LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 1/14/2020 to LM-63-2002 Standards.

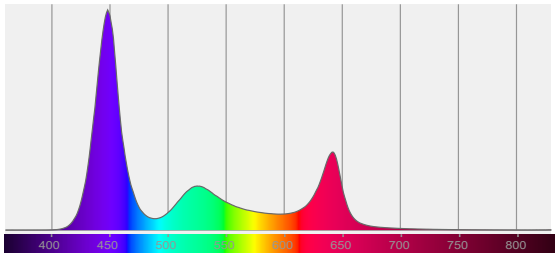
Overall Measurement

Angular Beam Distribution

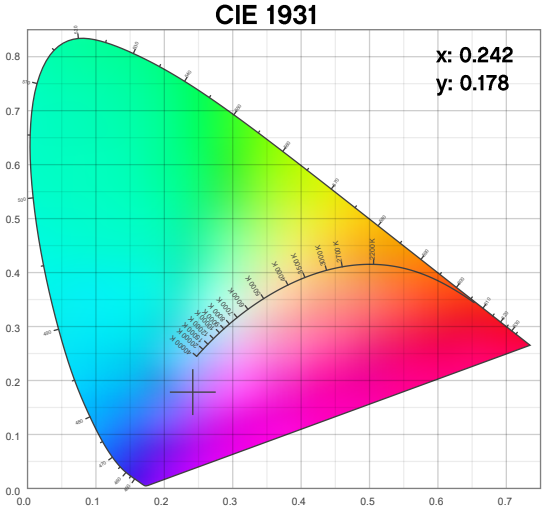


Beam Angle 5.5°

Spectral Distribution



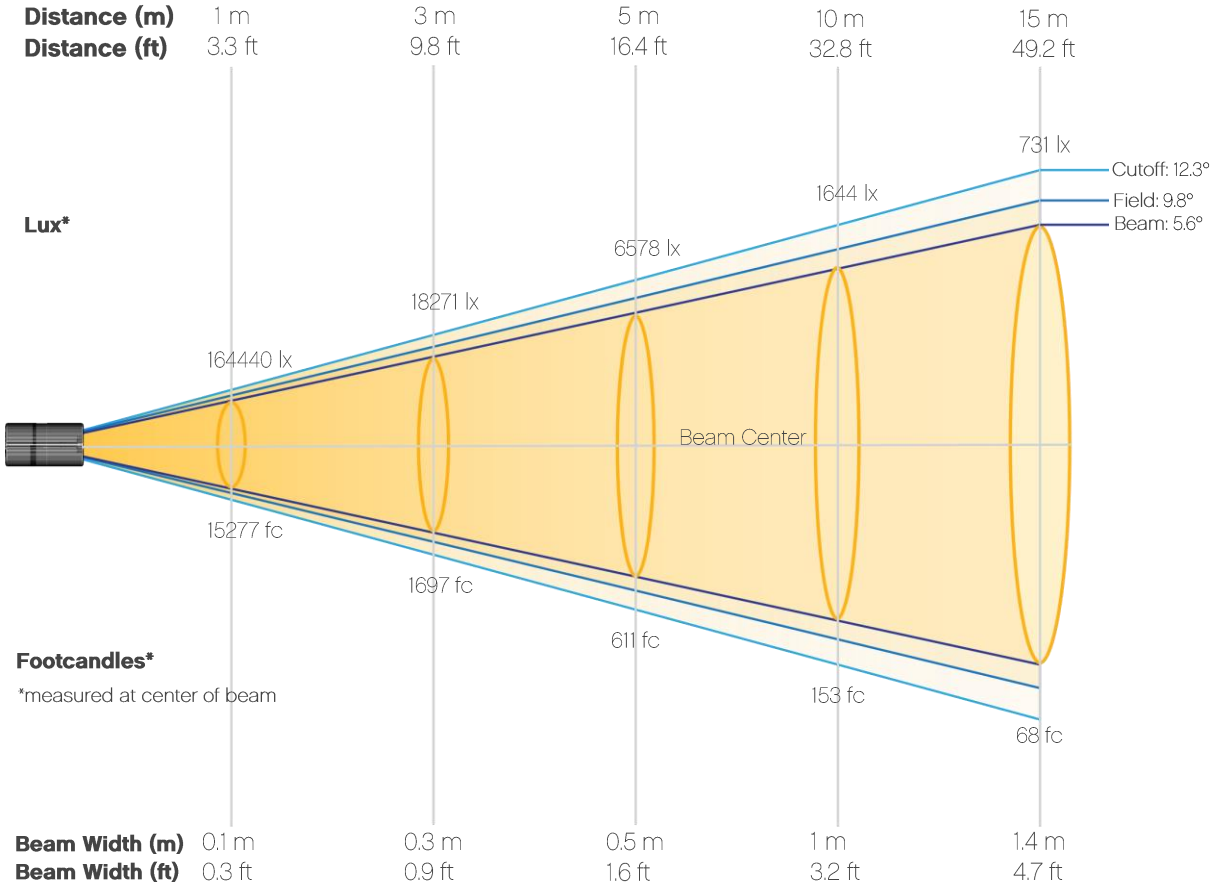
CIE 1931



Photometric Report

COLORado 3 Solo: Full Spot, Full Power

Beam Details



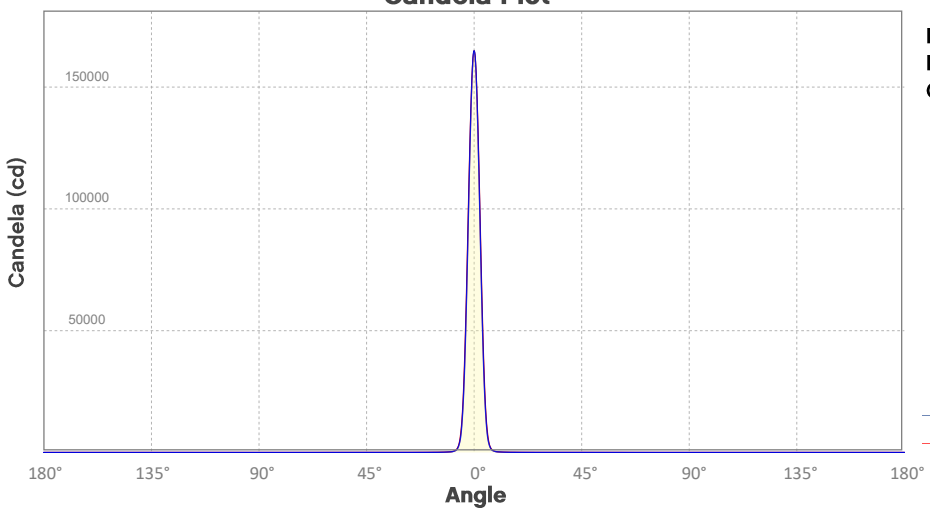
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	164440	41110	18271	10278	6578	4568	3356	2569	2030	1644
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1359	1142	973	839	731	642	569	508	456	411
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	15277	3819	1697	955	611	424	312	239	189	153
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	126	106	90	78	68	60	53	47	42	38

Photometric Report

COLORado 3 Solo: Full Spot, Full Power

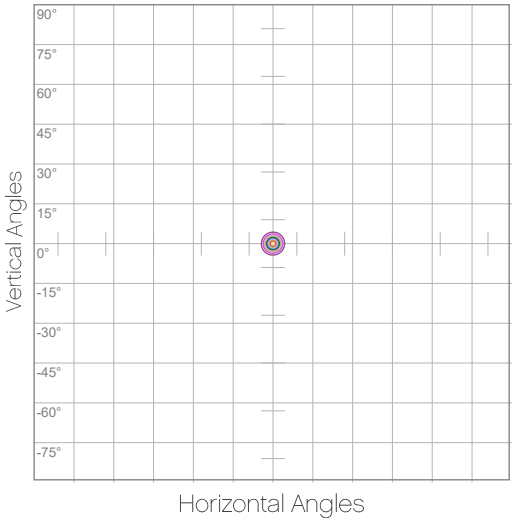
Candela Plot



Beam Angle (50%): 5.5°
Field Angle (10%): 9.7°
Cutoff Angle (3%): 12.2°

Horizontal Distribution
Vertical Distribution

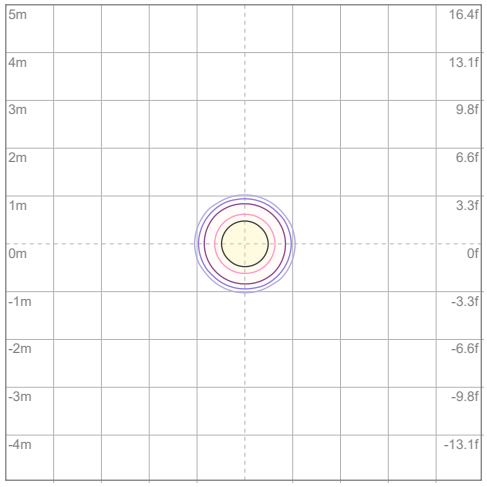
Polar Diagrams



iso-candela Diagram

10%	16444 cd
20%	32888 cd
30%	49332 cd
40%	65776 cd
50%	82220 cd
60%	98664 cd
70%	115108 cd
80%	131552 cd
90%	147996 cd

Conditions:
Number of c-planes: 8
Candela at center: 164440 cd



iso-illuminance Diagram

3%	49.3 lx
5%	82.2 lx
10%	164 lx
30%	493 lx
50%	822 lx

Conditions:
Number of c-planes: 8
Lux at center: 1644 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORado 3 Solo: 50% Zoom, Full Power

Report Summary

Output

Total Lumens: 2291 lm
Peak Intensity: 15283 cd
Illuminance @ 5m: 611 lux
Fixture Efficacy: 13 lm/W

Optical

Horizontal Beam Angle (50%): 23.9°
Vertical Beam Angle (50%): 24.1°
Horizontal Field Angle (10%): 33°
Vertical Field Angle (10%): 32.7°
Horizontal Cutoff Angle (3%): 37.2°
Vertical Cutoff Angle (3%): 36.8°

Conditions

AC Supply: 119 V, 60 Hz
Power: 183.16 W
Current: 1.54 A
Power Factor: 1.0

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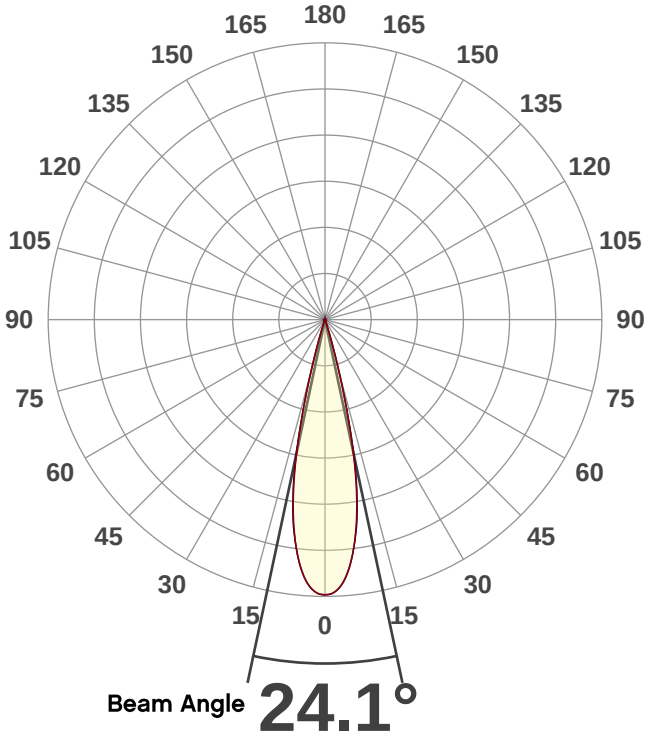
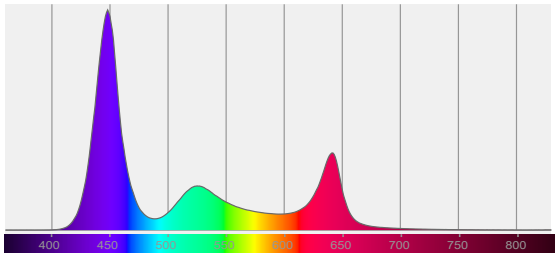
Overall Measurement

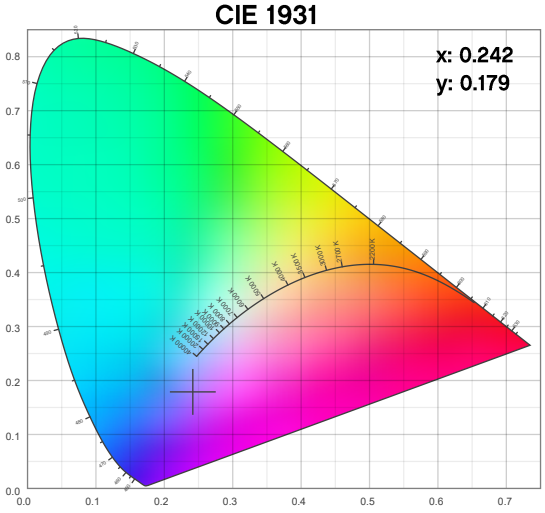
Angular Beam Distribution



Spectral Distribution



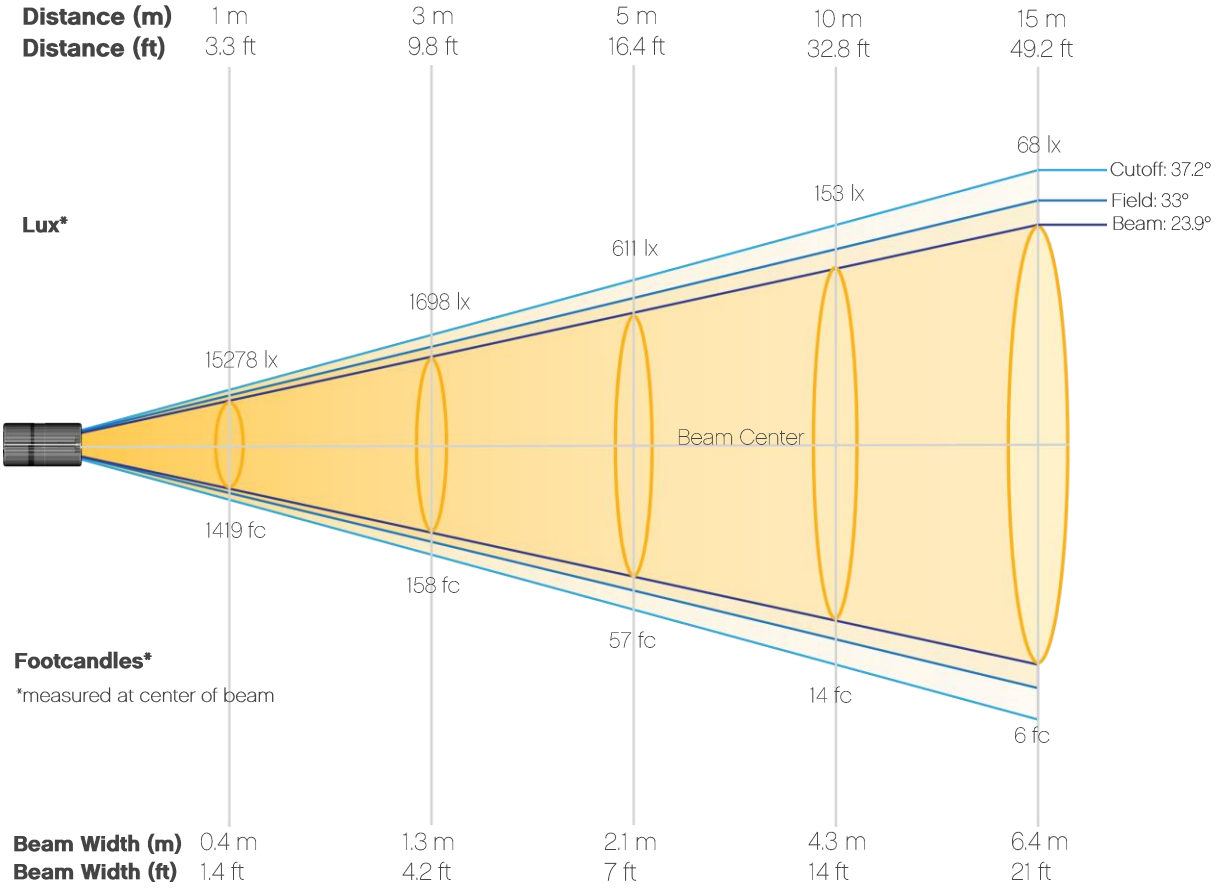
CIE 1931



Photometric Report

COLORado 3 Solo: 50% Zoom, Full Power

Beam Details



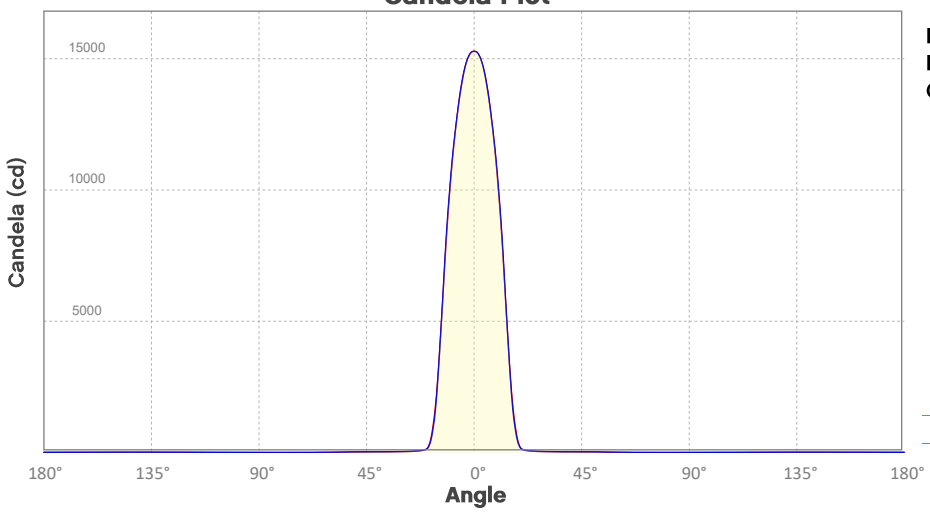
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15278	3820	1698	955	611	424	312	239	189	153
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	126	106	90	78	68	60	53	47	42	38
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1419	355	158	89	57	39	29	22	18	14
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	12	10	8	7	6	6	5	4	4	4

Photometric Report

COLORado 3 Solo: 50% Zoom, Full Power

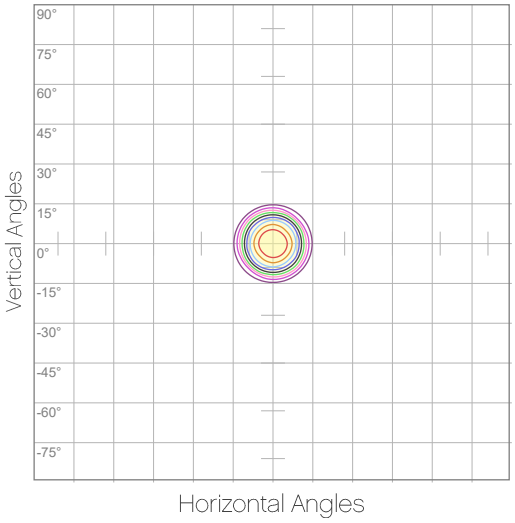
Candela Plot



Beam Angle (50%): 24.1°
Field Angle (10%): 32.9°
Cutoff Angle (3%): 37.1°

Horizontal Distribution
Vertical Distribution

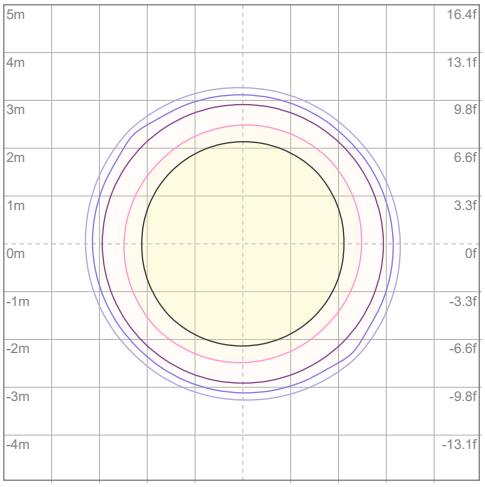
Polar Diagrams



iso-candela Diagram

10%	1528 cd
20%	3056 cd
30%	4583 cd
40%	6111 cd
50%	7639 cd
60%	9167 cd
70%	10695 cd
80%	12222 cd
90%	13750 cd

Conditions:
Number of c-planes: 8
Candela at center: 15278 cd



iso-illuminance Diagram

3%	4.58 lx
5%	7.64 lx
10%	15.3 lx
30%	45.8 lx
50%	76.4 lx

Conditions:
Number of c-planes: 8
Lux at center: 153 lx

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

Mounting height: 10 meters / 33 feet

Contact Us

General Information	Technical Support
Chauvet World Headquarters	
5200 NW 108th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetprofessional.com
Chauvet Europe Ltd	
Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: UKtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet Europe BVBA	
Stokstraat 18 9770 Kruishoutem, Belgium Voice: +32 (9) 388 93 97	Email: BNLtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet France	
3, Rue Ampère 91380 Chilly-Mazarin, France Voice: +33 1 78 85 33 59	Email: FRtech@chauvetlighting.fr Website: www.chauvetprofessional.eu
Chauvet Germany	
Bruno-Bürgel-Str. 11 28759 Bremen, Germany Voice: +49 421 62 60 20	Email: DEtech@chauvetlighting.de Website: www.chauvetprofessional.eu
Chauvet Mexico	
Av. de las Partidas 34 - 3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Edo. de México, CP 52000 Voice: +52 (728) 690-2010	Email: servicio@chauvetlighting.de Website: www.chauvetprofessional.eu

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.