

PHOTOMETRICS REPORT

COLORADO 2-QUAD ZOOM



CHAUVENT
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 2 Quad Zoom: Full Flood, Full Power

Report Summary

Output

Total Lumens: 4238 lm
Peak Intensity: 15220 cd
Illuminance @ 5m: 608 lux
Fixture Efficacy: 20 lm/W

Optical

Horizontal Beam Angle (50%): 30.1°
Vertical Beam Angle (50%): 29.8°
Horizontal Field Angle (10%): 45°
Vertical Field Angle (10%): 44°
Horizontal Cutoff Angle (3%): 61.3°
Vertical Cutoff Angle (3%): 61.5°

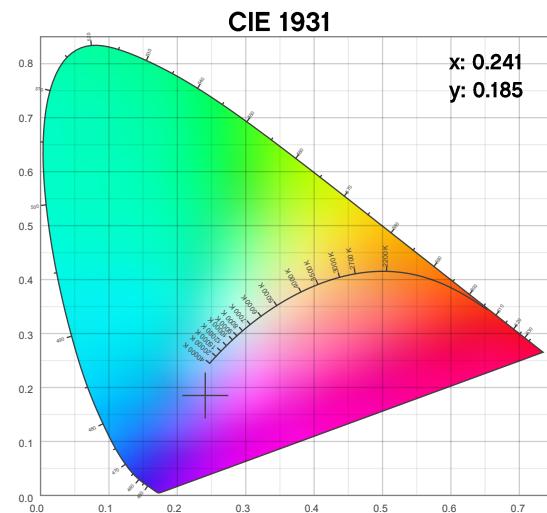
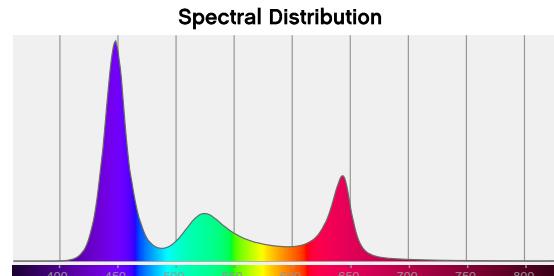
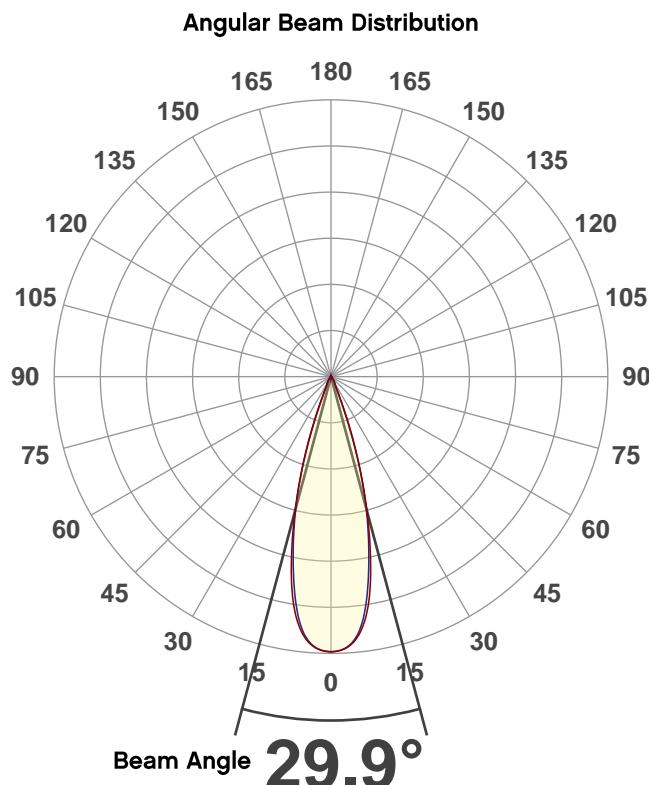
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 216.54 W
Current: 1.82 A
Power Factor: 0.99



This data sheet conforms to American National Standard E1.19 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpon Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/17/2020 to LM-63-2002 Standards.

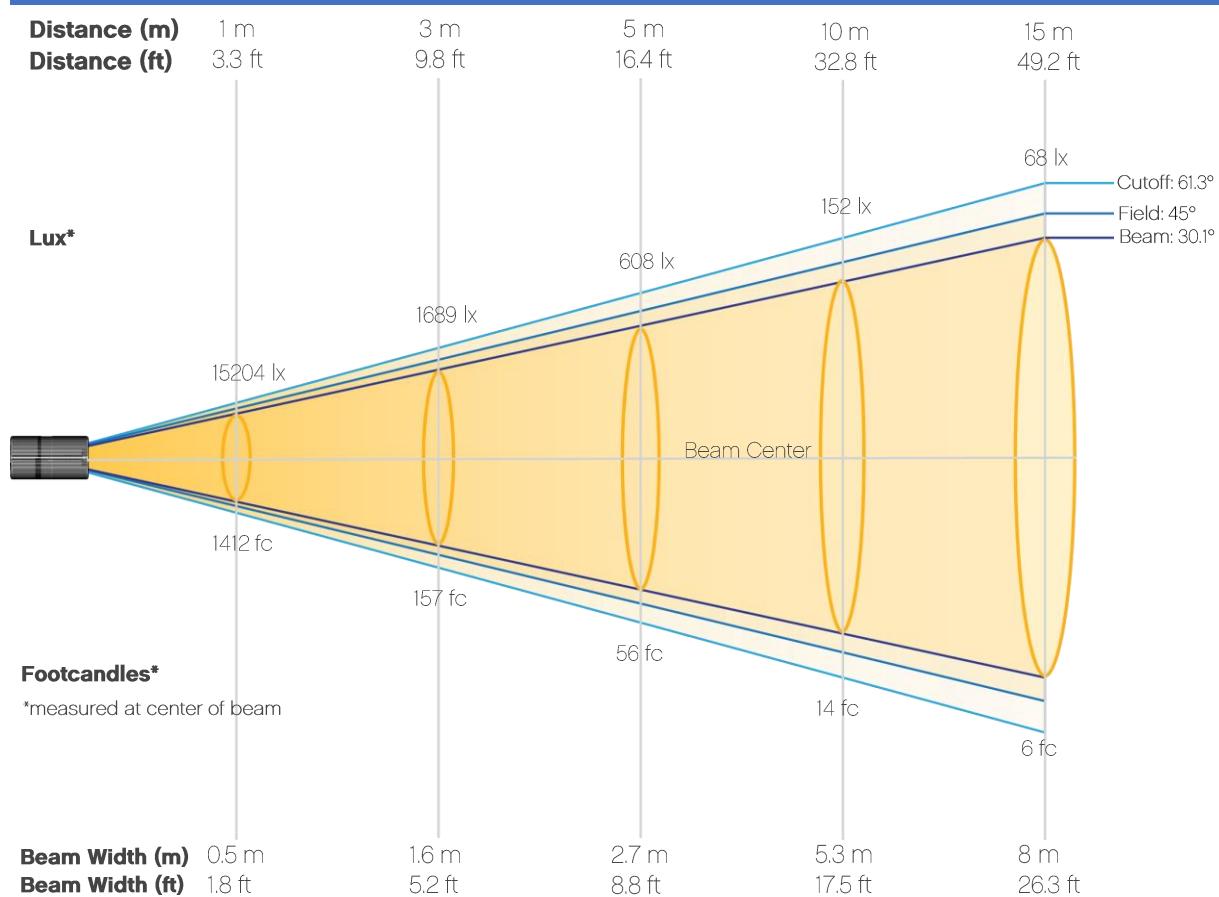
Overall Measurement



Photometric Report

COLORado 2 Quad Zoom: Full Flood, Full Power

Beam Details

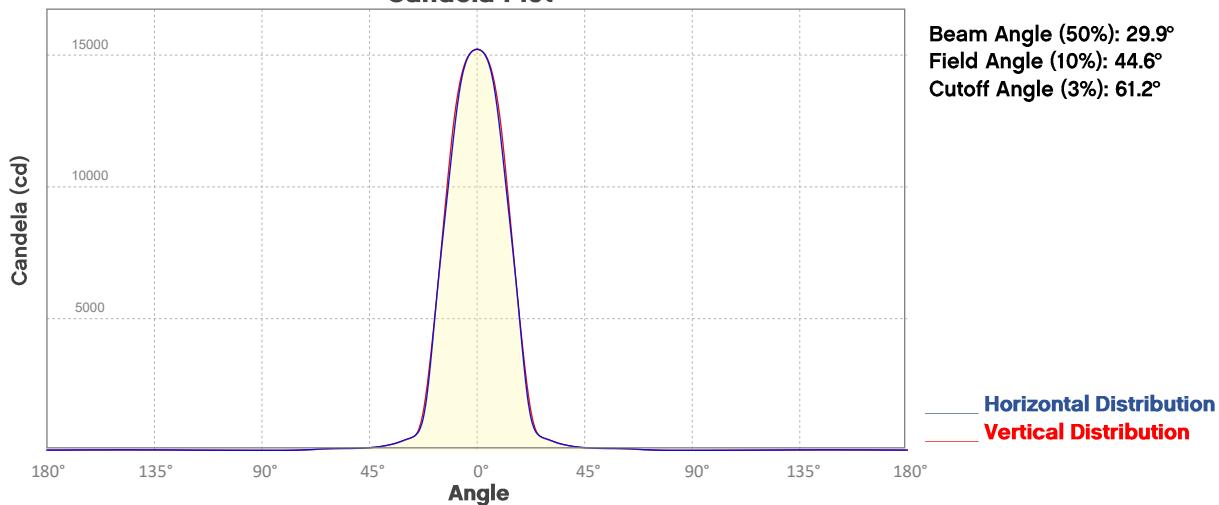


Beam Illuminances from 1-20m (3.3-65.6ft)

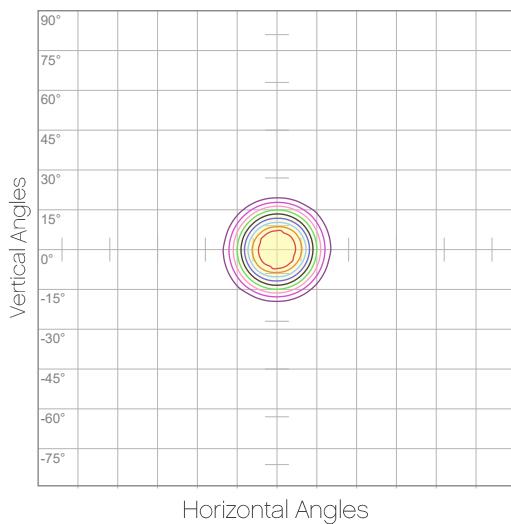
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15204	3801	1689	950	608	422	310	238	188	152
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	126	106	90	78	68	59	53	47	42	38
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1412	353	157	88	56	39	29	22	17	14
Distance	36.1ft	39.4ft	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 2 Quad Zoom: Full Flood, Full Power
Candela Plot



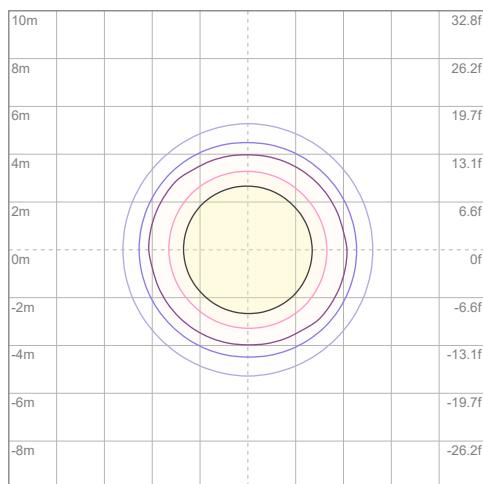
Polar Diagrams



iso-candela Diagram

10%	1520 cd
20%	3041 cd
30%	4561 cd
40%	6082 cd
50%	7602 cd
60%	9122 cd
70%	10643 cd
80%	12163 cd
90%	13684 cd

Conditions:
Number of c-planes: 8
Candela at center: 15204 cd



iso-illuminance Diagram

3%	4.56 lx
5%	7.60 lx
10%	15.2 lx
30%	45.6 lx
50%	76.0 lx

Conditions:
Number of c-planes: 8
Lux at center: 152 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 2 Quad Zoom: Full Spot, Full Power

Report Summary

Output

Total Lumens: 4738 lm
Peak Intensity: 133080 cd
Illuminance @ 5m: 5315 lux
Fixture Efficacy: 22 lm/W

Optical

Horizontal Beam Angle (50%): 7.5°
Vertical Beam Angle (50%): 8.2°
Horizontal Field Angle (10%): 14.8°
Vertical Field Angle (10%): 16°
Horizontal Cutoff Angle (3%): 20.5°
Vertical Cutoff Angle (3%): 26.5°

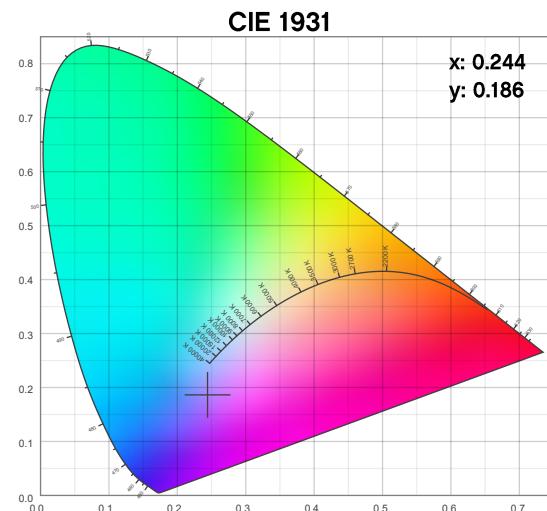
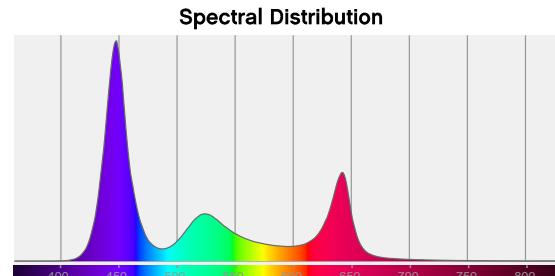
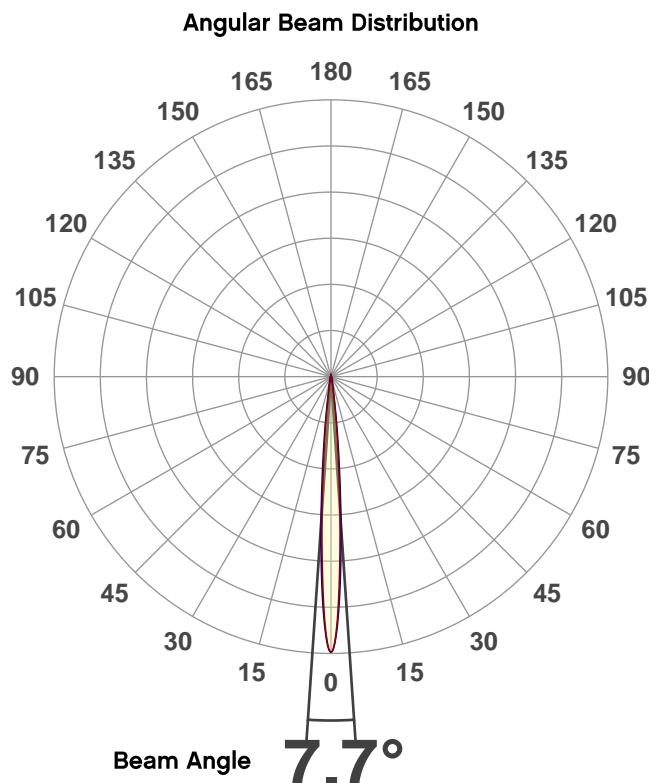
Conditions

AC Supply: 120 V, 60 Hz
Power: 219.94 W
Current: 1.83 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.

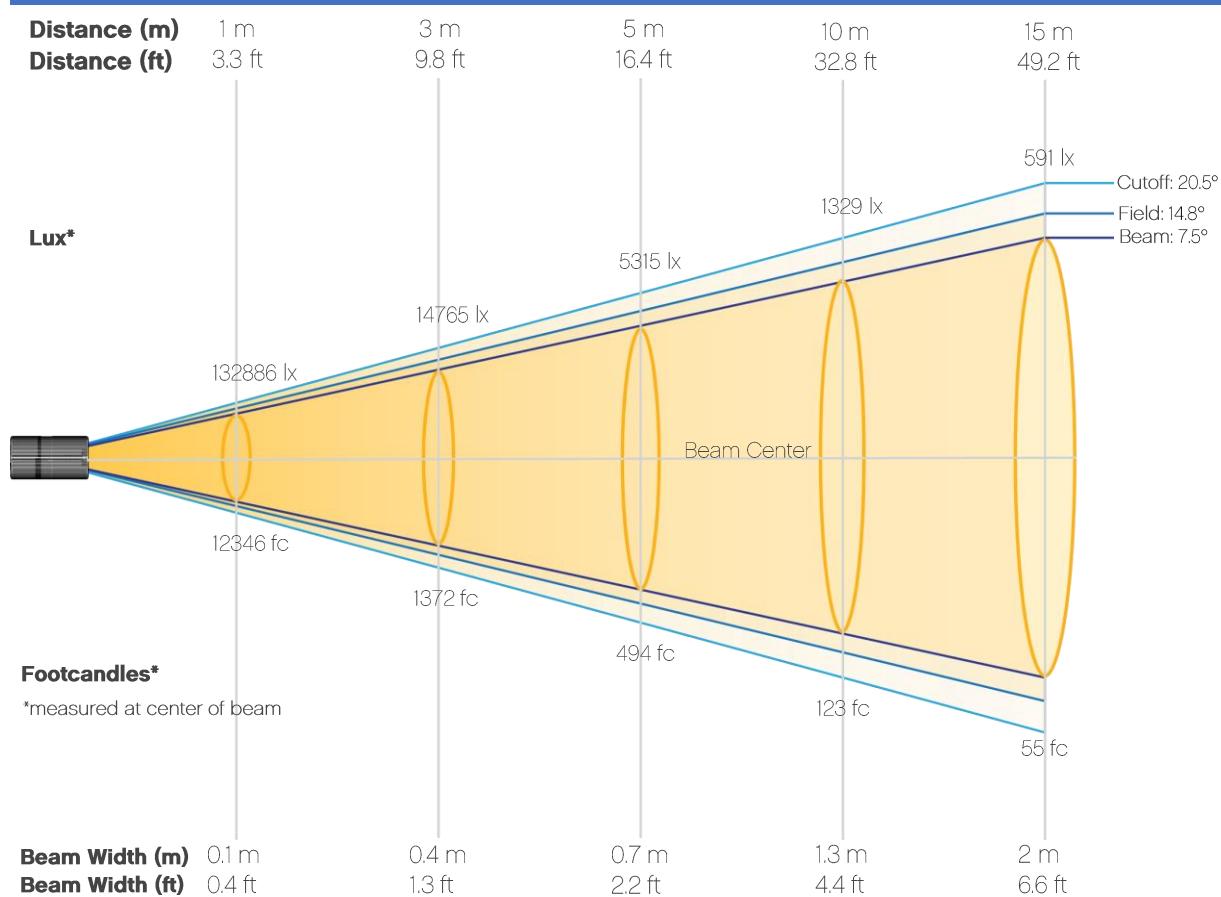
Overall Measurement



Photometric Report

COLORado 2 Quad Zoom: Full Spot, Full Power

Beam Details

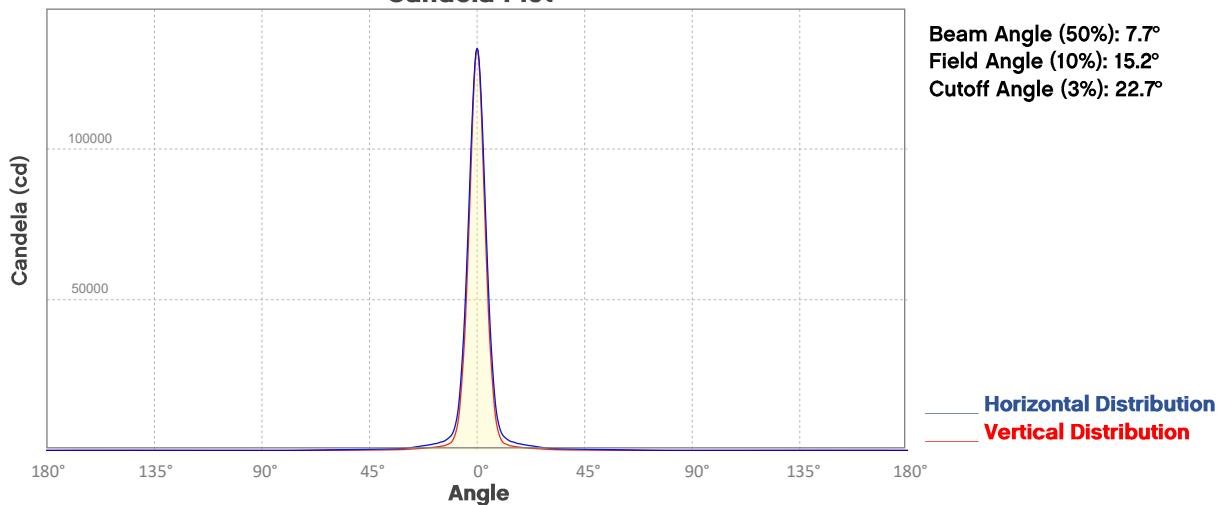


Beam Illuminances from 1-20m (3.3-65.6ft)

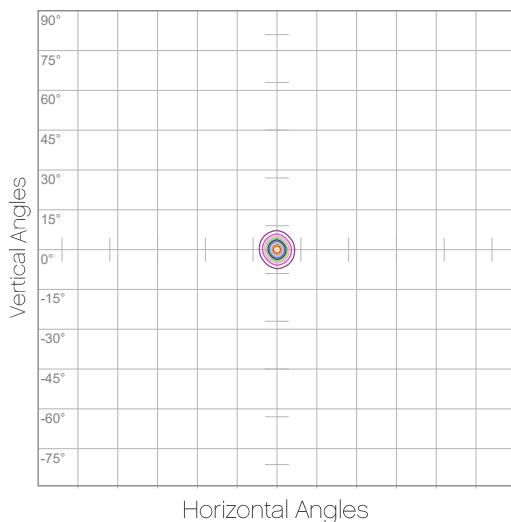
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	132886	33221	14765	8305	5315	3691	2712	2076	1641	1329
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	1098	923	786	678	591	519	460	410	368	332
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	12346	3086	1372	772	494	343	252	193	152	123
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	102	86	73	63	55	48	43	38	34	31

Photometric Report

COLORado 2 Quad Zoom: Full Spot, Full Power
Candela Plot



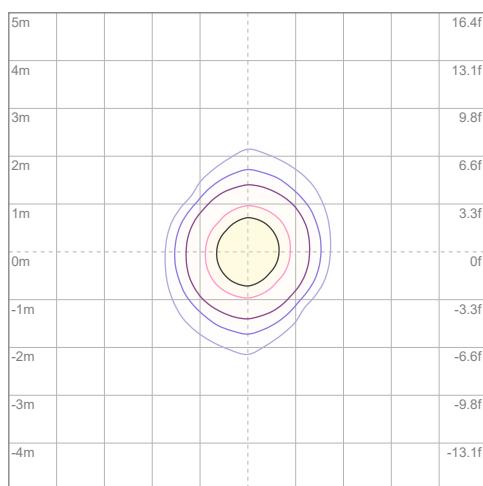
Polar Diagrams



iso-candela Diagram

10%	13289 cd
20%	26577 cd
30%	39866 cd
40%	53154 cd
50%	66443 cd
60%	79732 cd
70%	93020 cd
80%	106309 cd
90%	119597 cd

Conditions:
Number of c-planes: 8
Candela at center: 132886 cd



iso-illuminance Diagram

3%	39.9 lx
5%	66.4 lx
10%	133 lx
30%	399 lx
50%	664 lx

Conditions:
Number of c-planes: 8
Lux at center: 1329 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 2 Quad Zoom: 50% Zoom, Full Power

Report Summary

Output

Total Lumens: 4005 lm
Peak Intensity: 43568 cd
Illuminance @ 5m: 1742 lux
Fixture Efficacy: 19 lm/W

Optical

Horizontal Beam Angle (50%): 15.7°
Vertical Beam Angle (50%): 15.5°
Horizontal Field Angle (10%): 26.1°
Vertical Field Angle (10%): 25.7°
Horizontal Cutoff Angle (3%): 33.8°
Vertical Cutoff Angle (3%): 34.7°

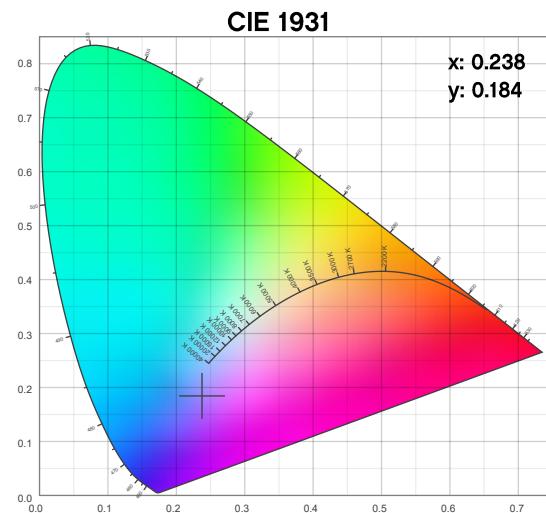
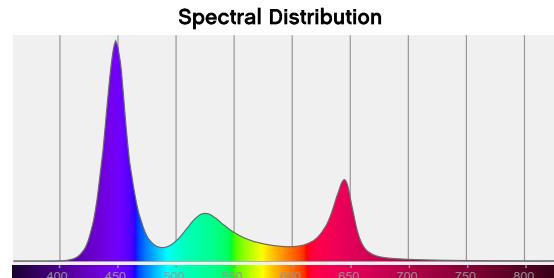
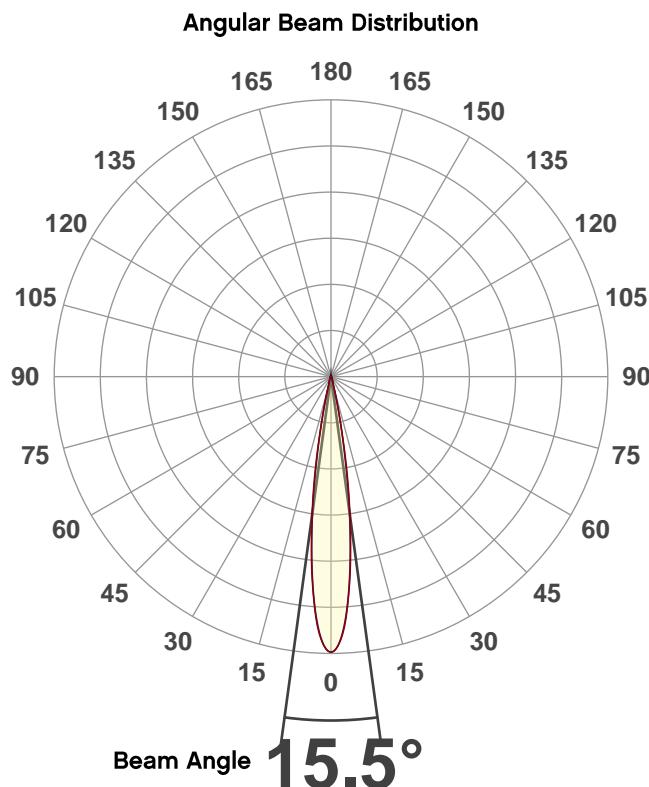
Conditions

AC Supply: 119 V, 60 Hz
Power: 215.14 W
Current: 1.81 A
Power Factor: 0.99



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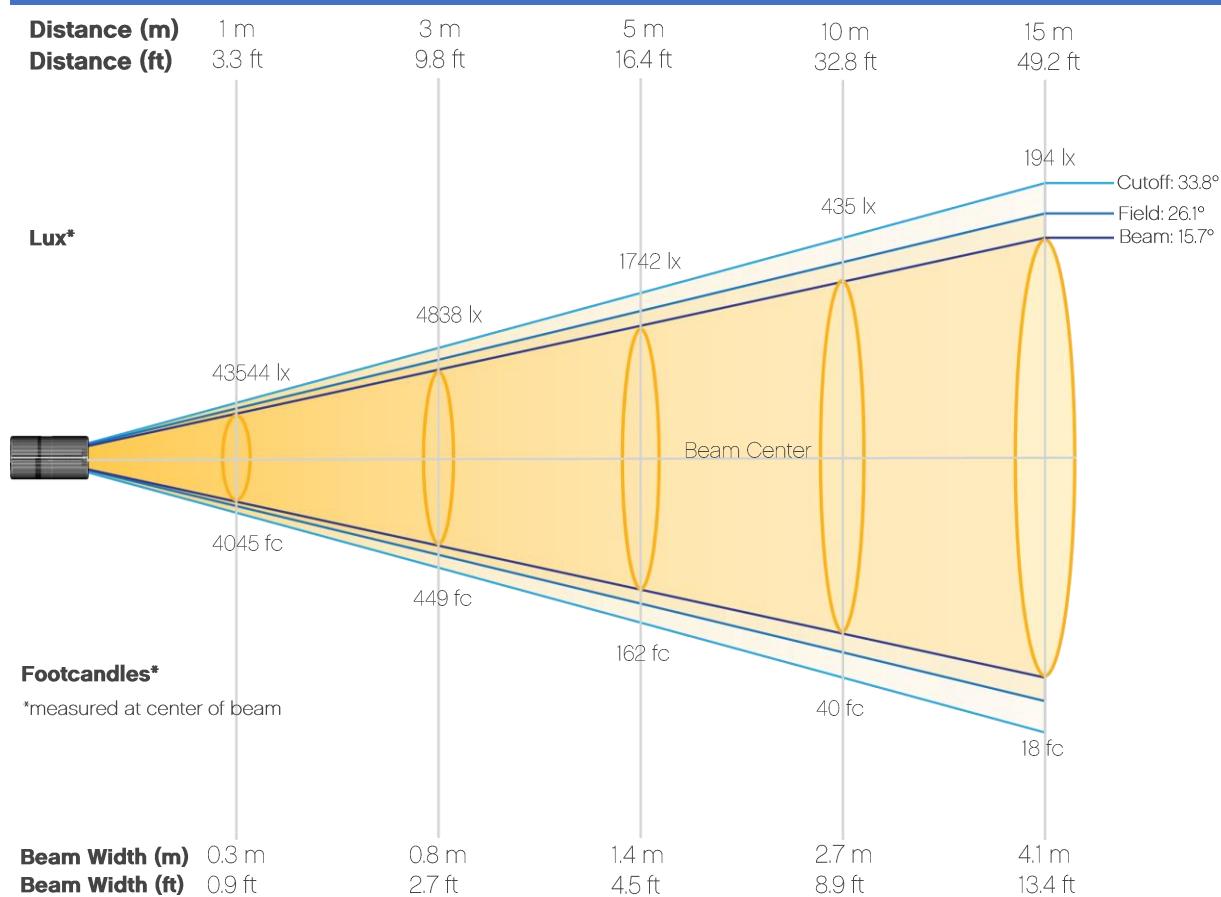
Overall Measurement



Photometric Report

COLORado 2 Quad Zoom: 50% Zoom, Full Power

Beam Details

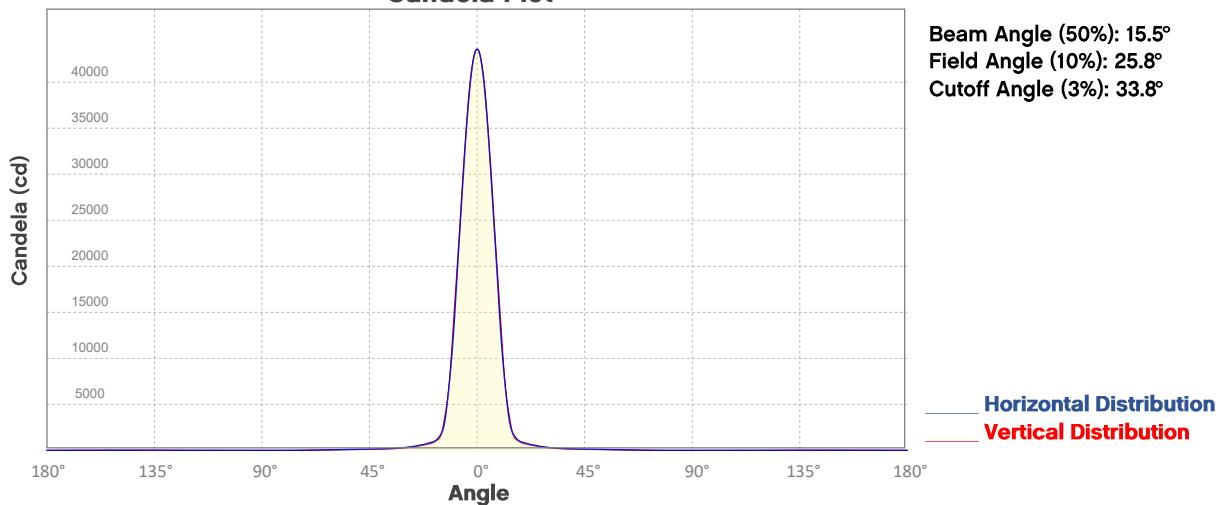


Beam Illuminances from 1-20m (3.3-65.6ft)

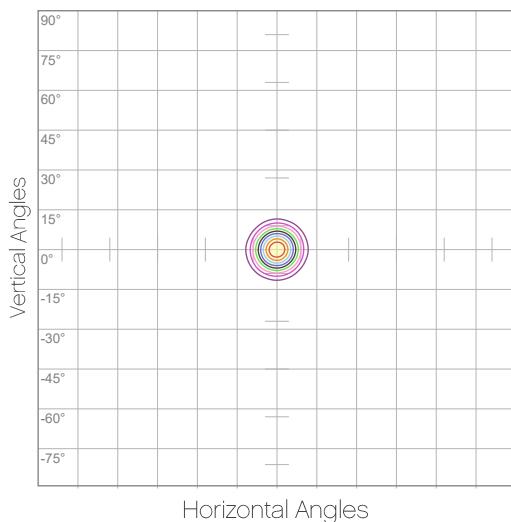
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	43544	10886	4838	2722	1742	1210	889	680	538	435
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	360	302	258	222	194	170	151	134	121	109
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	4045	1011	449	253	162	112	83	63	50	40
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	33	28	24	21	18	16	14	12	11	10

Photometric Report

COLORado 2 Quad Zoom: 50% Zoom, Full Power
Candela Plot



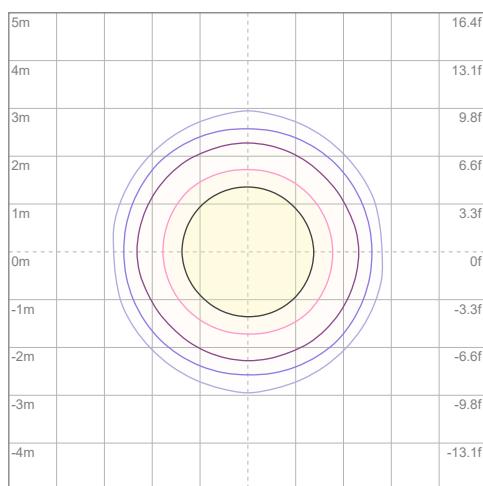
Polar Diagrams



iso-candela Diagram

10%	4354 cd
20%	8709 cd
30%	13063 cd
40%	17418 cd
50%	21772 cd
60%	26127 cd
70%	30481 cd
80%	34835 cd
90%	39190 cd

Conditions:
Number of c-planes: 8
Candela at center: 43544 cd



iso-illuminance Diagram

3%	13.1 lx
5%	21.8 lx
10%	43.5 lx
30%	131 lx
50%	218 lx

Conditions:
Number of c-planes: 8
Lux at center: 435 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
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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.