

## PHOTOMETRICS REPORT

**COLORdash** Batter-Quad 12



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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 Batten-Quad 12:** Standard Optics, Full Power

## Report Summary

### Output

Total Lumens: 3082 lm  
Peak Intensity: 20316 cd  
Illuminance @ 5m: 810 lux  
Fixture Efficacy: 30 lm/W

### Optical

Horizontal Beam Angle (50%): 18.8°  
Vertical Beam Angle (50%): 18.3°  
Horizontal Field Angle (10%): 34.7°  
Vertical Field Angle (10%): 34°  
Horizontal Cutoff Angle (3%): 48.3°  
Vertical Cutoff Angle (3%): 48.7°

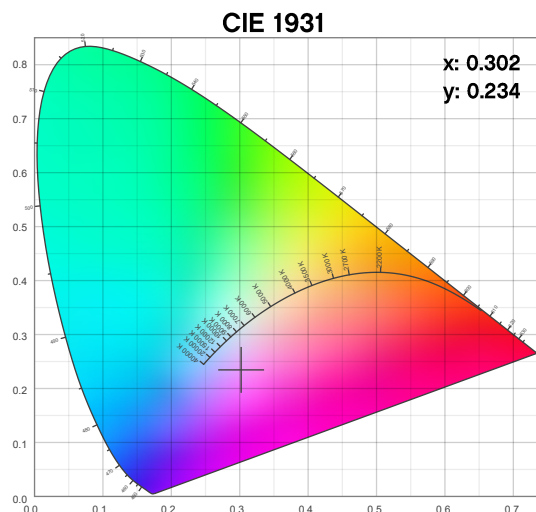
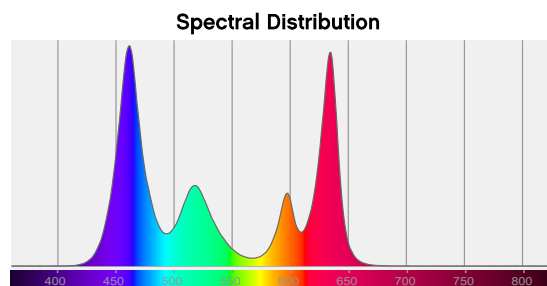
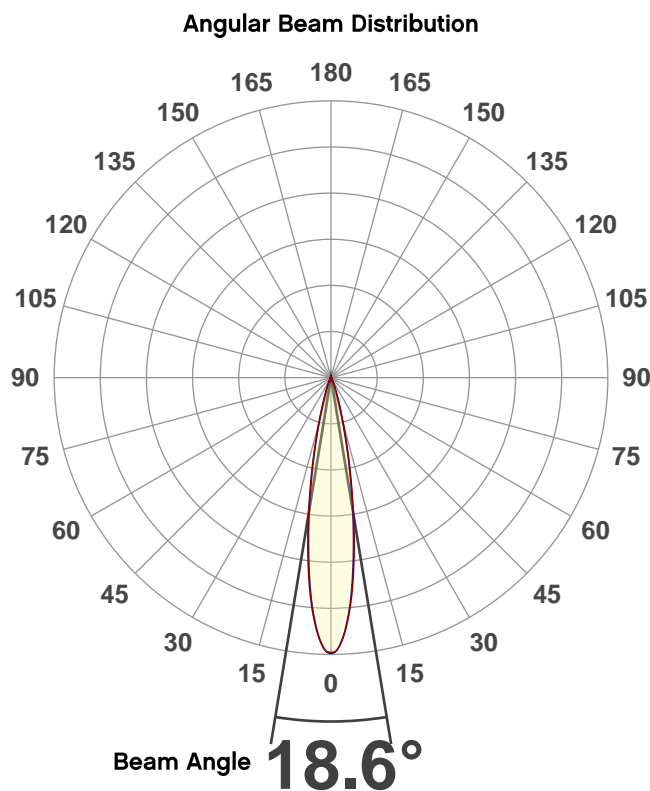


### Conditions

AC Supply: 120 V, 60 Hz  
Power: 158.38 W  
Current: 1.33 A  
Power Factor: 0.65

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 2/19/2020 to LM-63-2002 Standards.

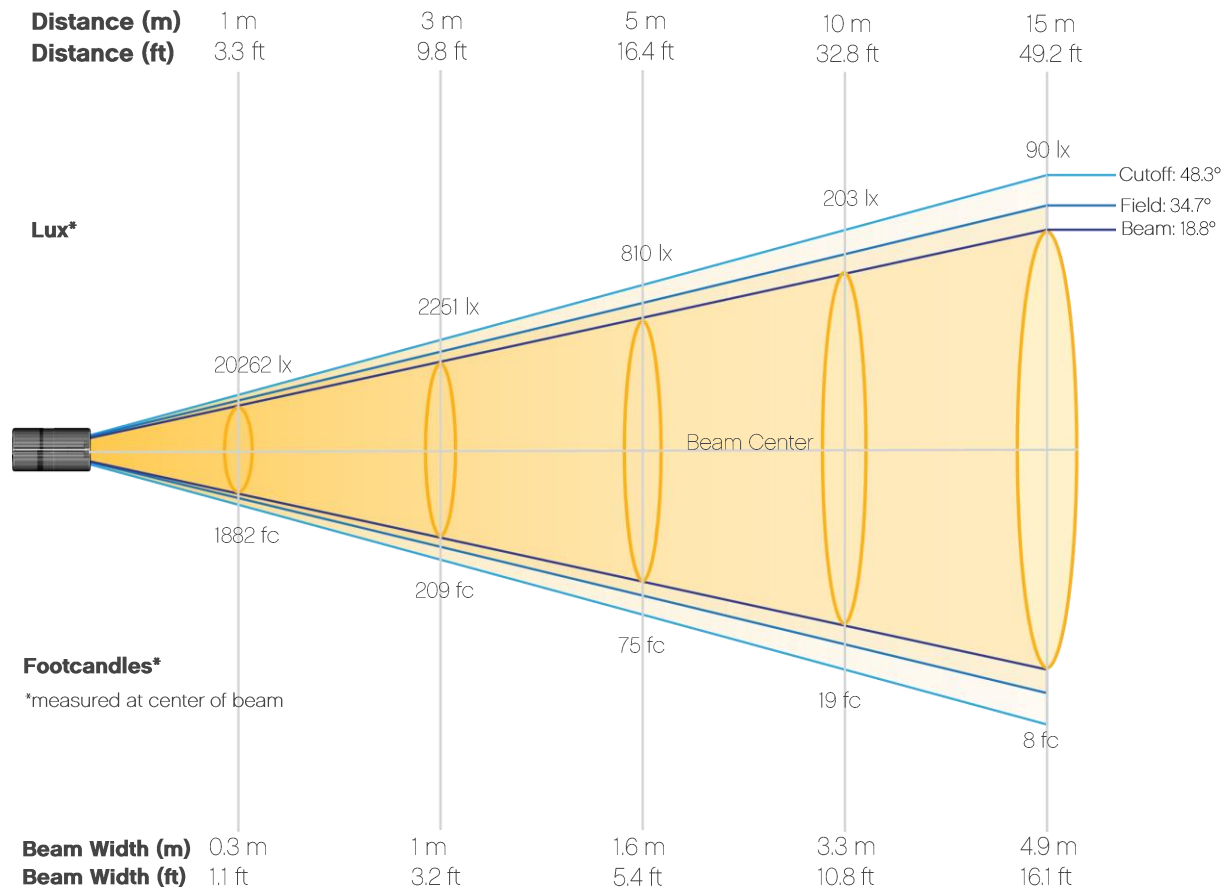
## Overall Measurement



# Photometric Report

**COLORDash Batten-Quad 12:** Standard Optics, Full Power

## Beam Details



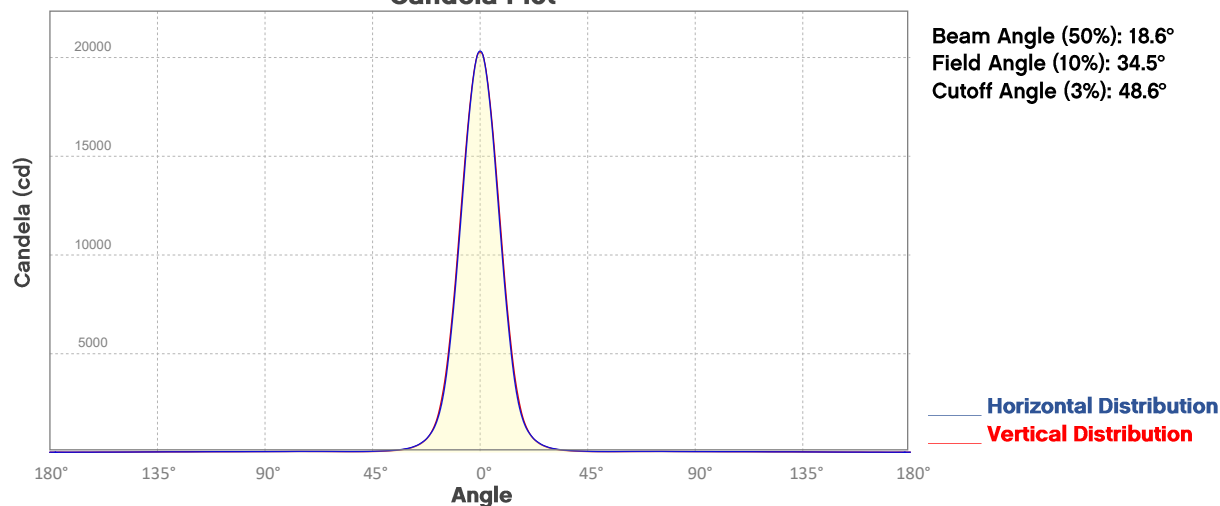
## Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	20262	5065	2251	1266	810	563	414	317	250	203
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	167	141	120	103	90	79	70	63	56	51
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1882	471	209	118	75	52	38	29	23	19
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	16	13	11	10	8	7	7	6	5	5

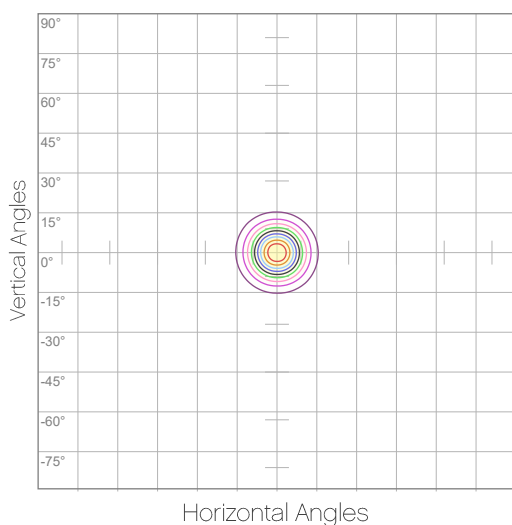
# Photometric Report

**COLORDash Batten-Quad 12:** Standard Optics, Full Power

**Candela Plot**



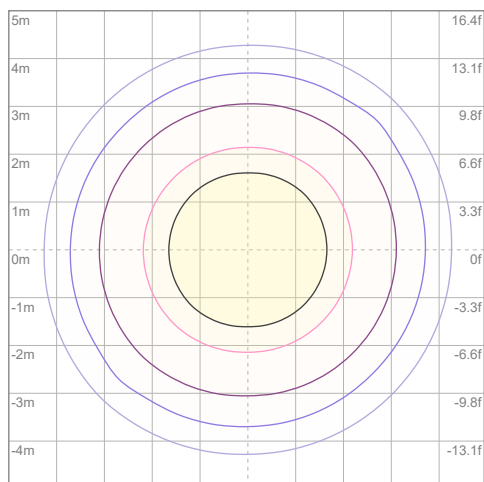
## Polar Diagrams



**iso-candela Diagram**

10%	2026 cd
20%	4052 cd
30%	6079 cd
40%	8105 cd
50%	10131 cd
60%	12157 cd
70%	14183 cd
80%	16209 cd
90%	18236 cd

Conditions:  
 Number of c-planes: 8  
 Candela at center: 20262 cd



**iso-illuminance Diagram**

3%	6.08 lx
5%	10.1 lx
10%	20.3 lx
30%	60.8 lx
50%	101 lx

Conditions:  
 Number of c-planes: 8  
 Lux at center: 203 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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