

PHOTOMETRICS REPORT

STRIKE **ARRAY** 4



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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 & Chromaticity Report

Strike Array 4: Standard Optics, Full Power

Report Summary

Measurements

Fixture Output: 18262 lm
Fixture Peak: 16945 cd
Fixture Efficacy: ffl lm/W
Intensity @ 5m: 678 lux
Color Temperature: 2795 K
CRI: 92.8 CRI R9 Value: 55.8
CQS: 91.2
TLCI: 91
TM-30 Rf: 92.0
TM-30 Rg: 97.2
Beam Angle (50%): 61°
Field Angle (10%): 100.2°
Cutoff Angle (3%): 117.5°

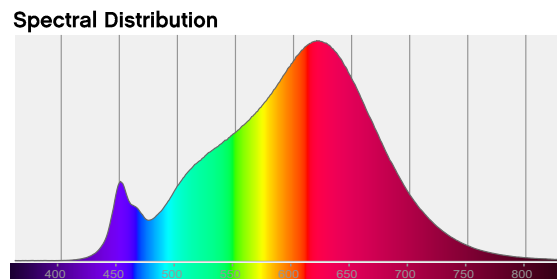
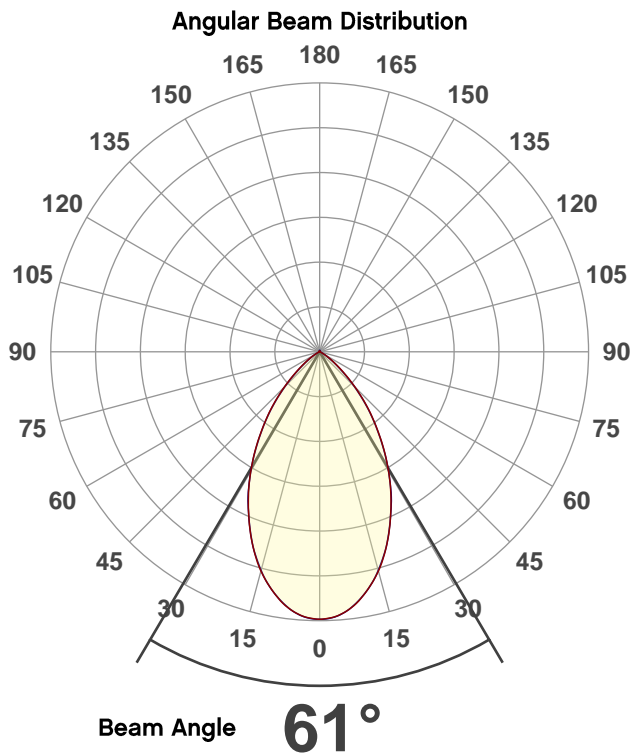


Conditions

AC Supply: 119 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 10/6/2020 to LM-63-2002 Standards.

Overall Measurement



Tested Color (CIE 1931):

X: 0.456
Y: 0.416



Light Quality

CRI: 92.8



Color Temperature

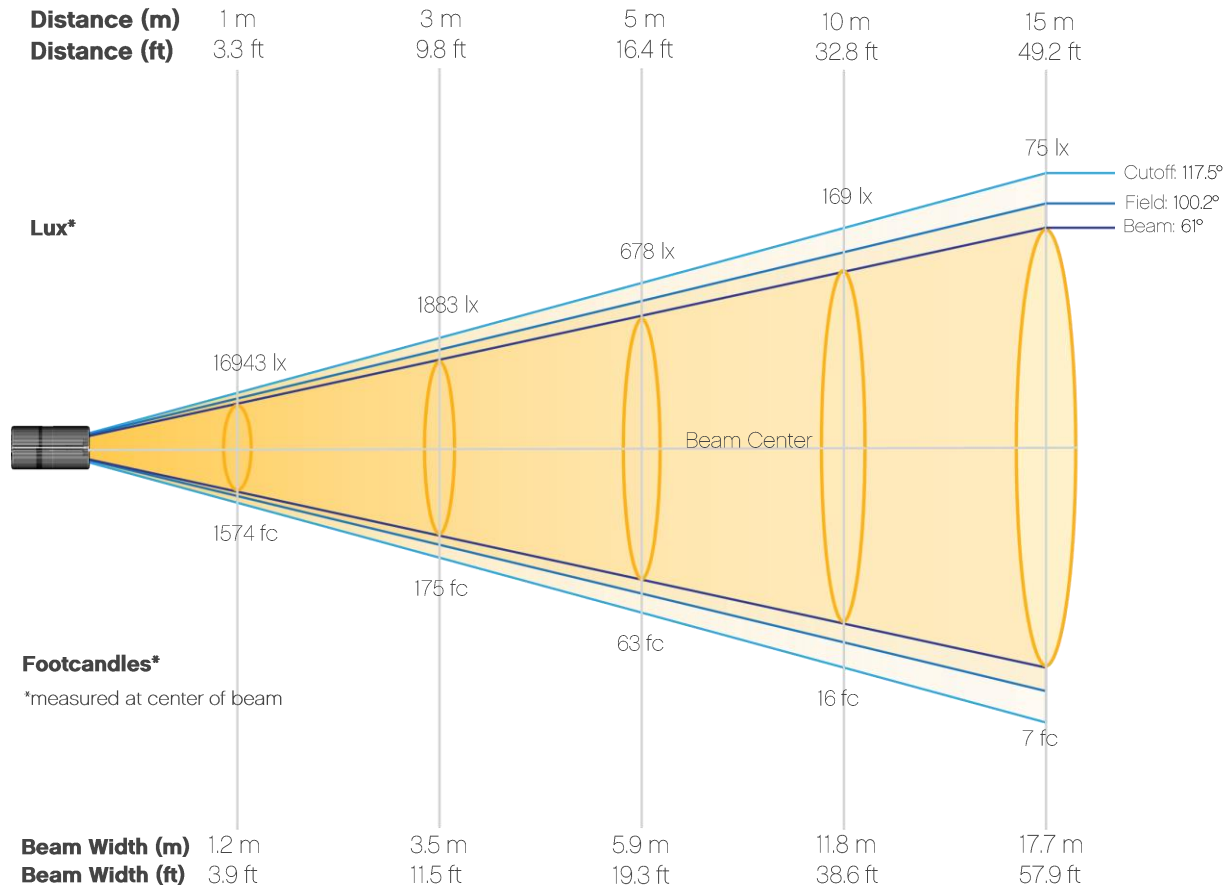
2795 K



Photometric & Chromaticity Report

Strike Array 4: Standard Optics, Full Power

Beam Details

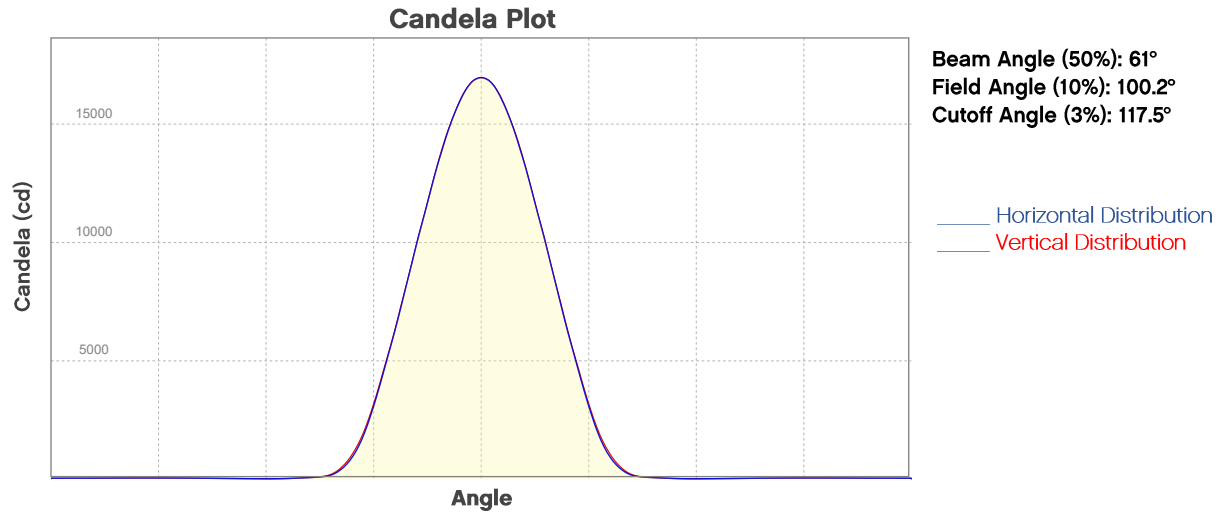


Beam Intensities from 1-20m (3.3-65.6ft)

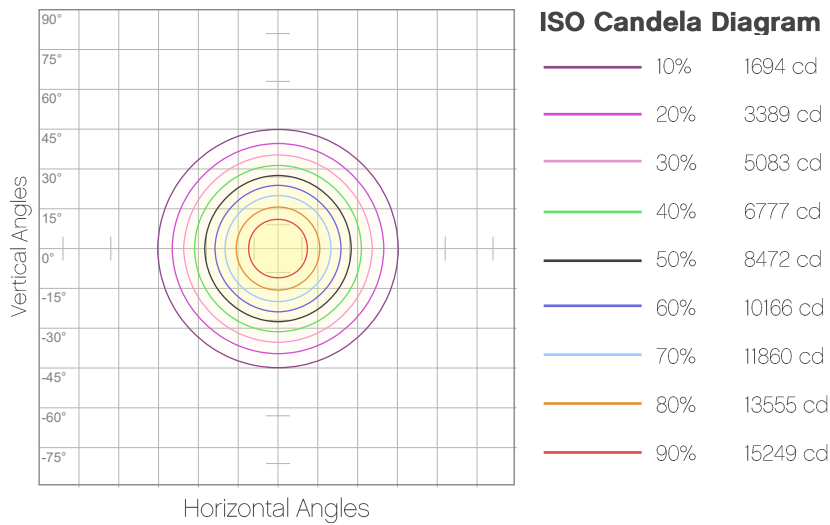
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	16943	4236	1883	1059	678	471	346	265	209	169
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	140	118	100	86	75	66	59	52	47	42
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1574	394	175	98	63	44	32	25	19	16
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	13	11	9	8	7	6	5	5	4	4

Photometric & Chromaticity Report

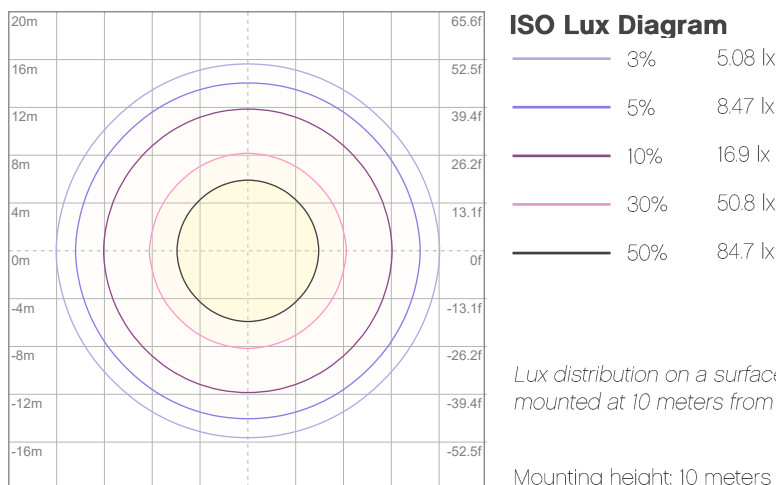
Strike Array 4: Standard Optics, Full Power



ISO Diagrams



Conditions:
 Number of c-planes: 8
 Candela at center: 16943 cd

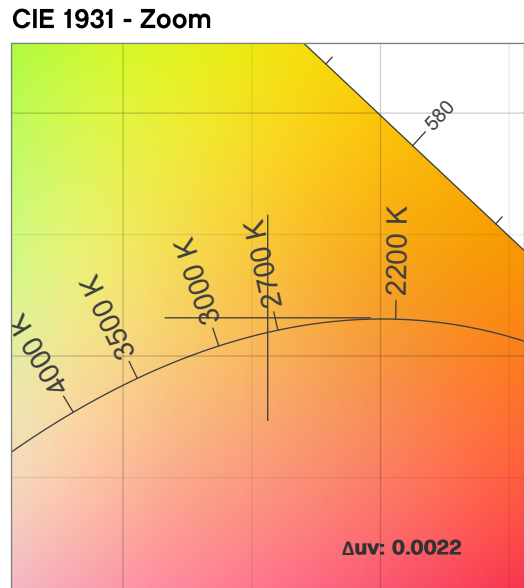
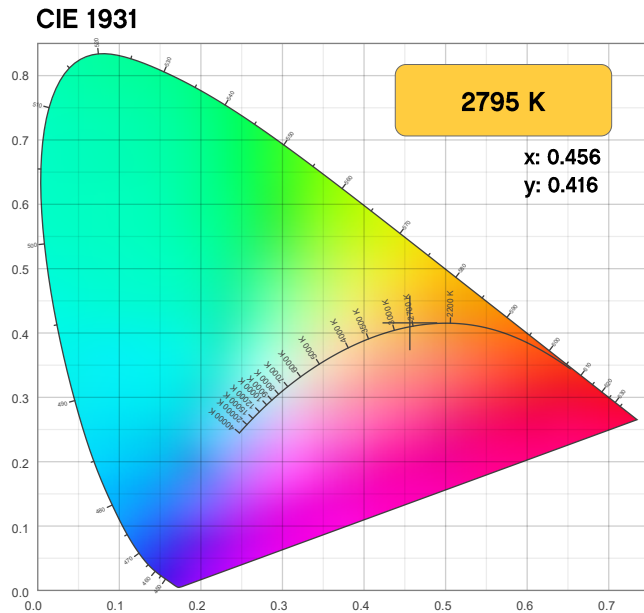


Conditions:
 Number of c-planes: 8
 Candela at center: 169 lx

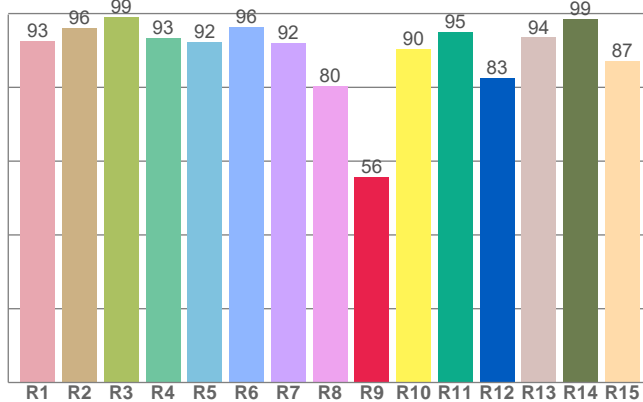
Photometric & Chromaticity Report

Strike Array 4: Standard Optics, Full Power

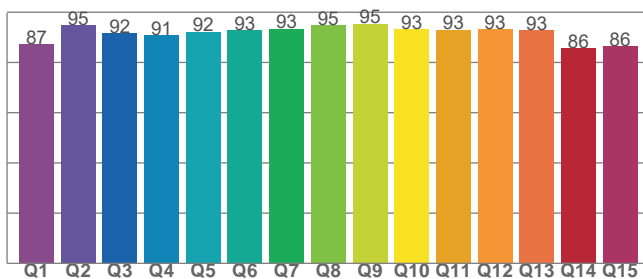
Chromaticity



CRI: 92.8 (R1-R8)



CQS: 91.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2795 K	0.456	0.416

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0022	0.416	0.258

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.8	55.8	91.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
91	92.0	97.2

Photometric & Chromaticity Report

Strike Array 4: Standard Optics, Full Power

TM-30 Details

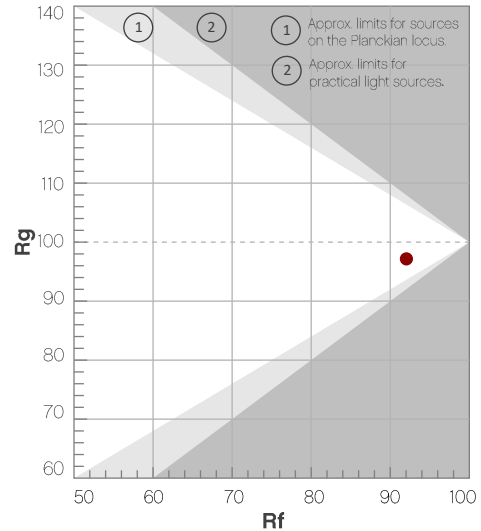
Rf 92.0

Fidelity Index
(R_f)

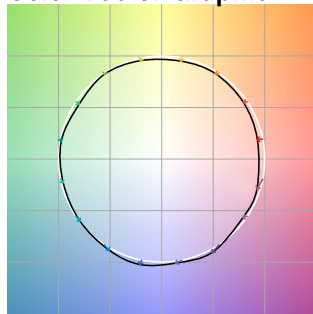
Rg 97.2

Gammut Index
(R_g)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	0%
2	92	-4%	2%
3	93	-2%	3%
4	94	-3%	0%
5	96	-2%	2%
6	97	-1%	1%
7	94	-4%	0%
8	96	-1%	2%
9	93	-2%	4%
10	90	-1%	6%
11	91	2%	7%
12	91	4%	-1%
13	91	2%	-6%
14	88	3%	-10%
15	92	-3%	-3%
16	86	-4%	-10%



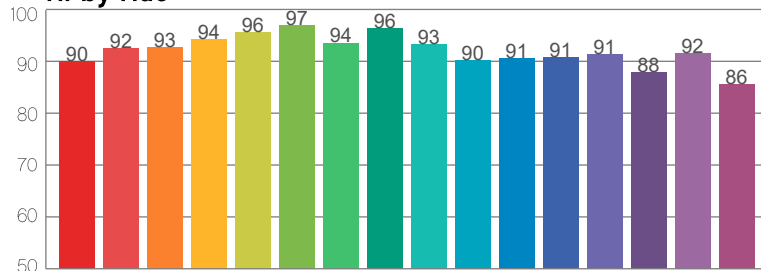
Color Vector Graphic



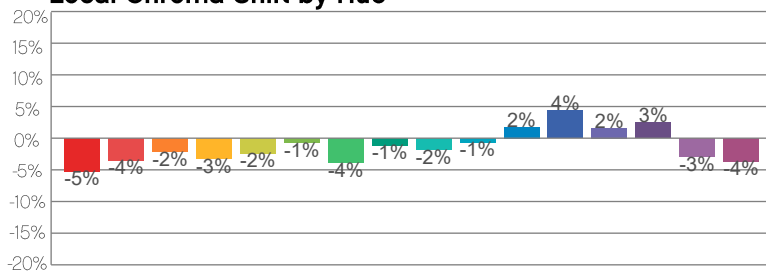
Color Distortion Graphic



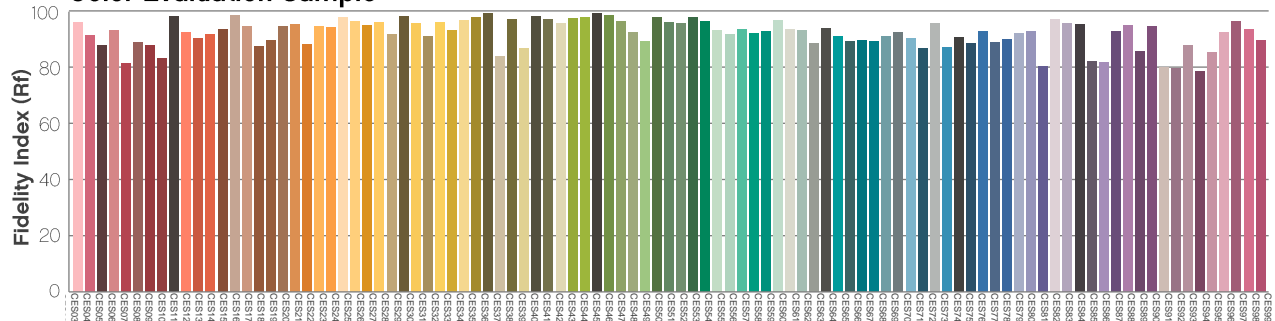
R_f by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Contact Us

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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.

