

PHOTOMETRICS REPORT

# STRIKE **ARRAY** 2



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## Testing Process

### Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion<sup>®</sup>, 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<sup>®</sup> 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<sup>®</sup> system every six months as recommended by Viso Systems.

# Photometric & Chromaticity Report

Strike Array 2: Standard Optics, Full Power-Red Shift On

## Report Summary

### Measurements

Fixture Output: 9393 lm  
Fixture Peak: 9059 cd  
Fixture Efficacy: ffl lm/W  
Intensity @ 5m: 360 lux  
Color Temperature: 2792 K  
CRI: 92.8      CRI R9 Value: 55.8  
CQS: 91.1  
TLCI: 91  
TM-30 Rf: 92.1  
TM-30 Rg: 97.1  
Beam Angle (50%): 60°  
Field Angle (10%): 98.5°  
Cutoff Angle (3%): 115.2°

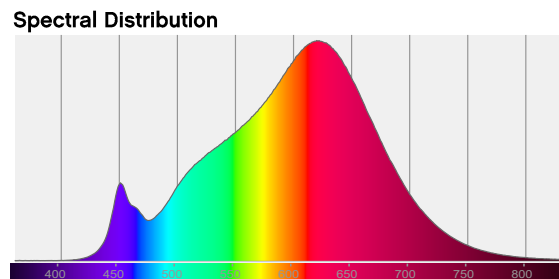
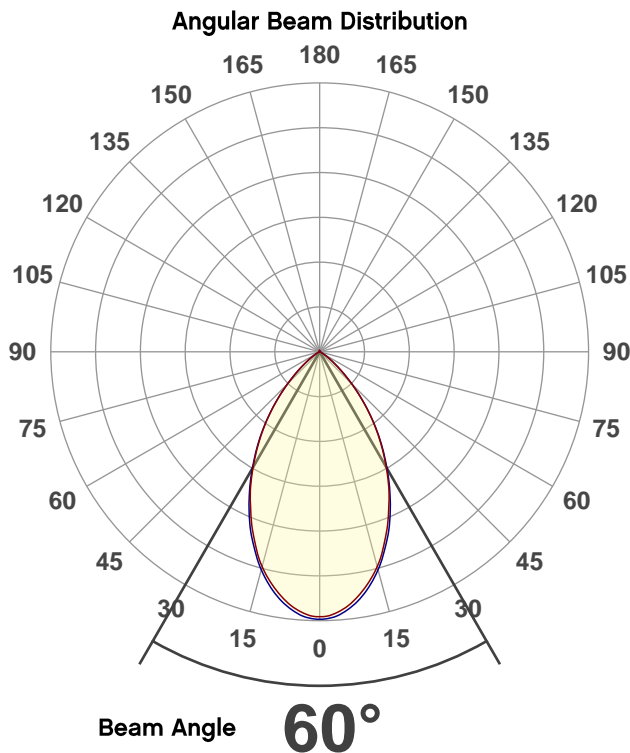


### Conditions

AC Supply: 121 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 9/30/2020 to LM-63-2002 Standards.

## Overall Measurement



**Tested Color (CIE 1931):**

X: 0.457  
Y: 0.416



**Light Quality**

CRI: 92.8



**Color Temperature**

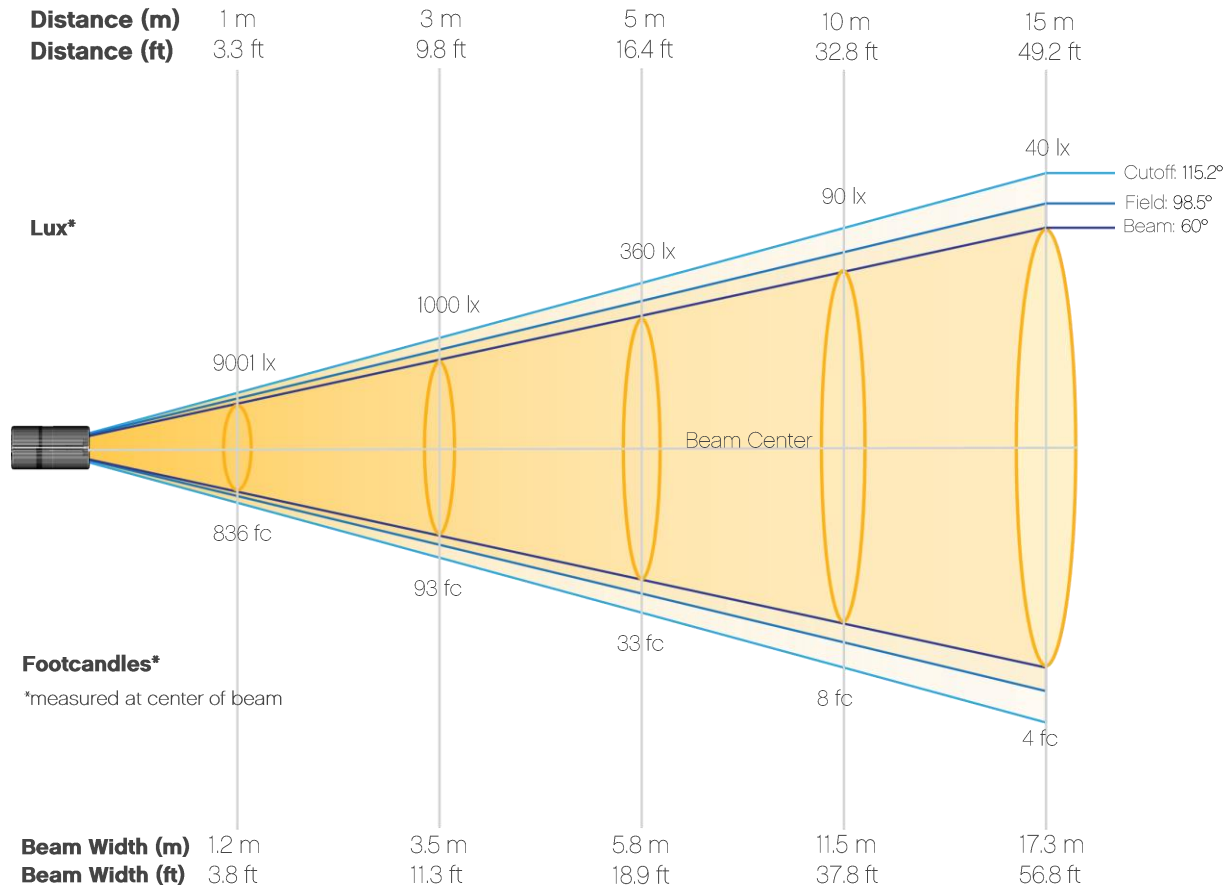
2792 K



# Photometric & Chromaticity Report

Strike Array 2: Standard Optics, Full Power-Red Shift On

## Beam Details

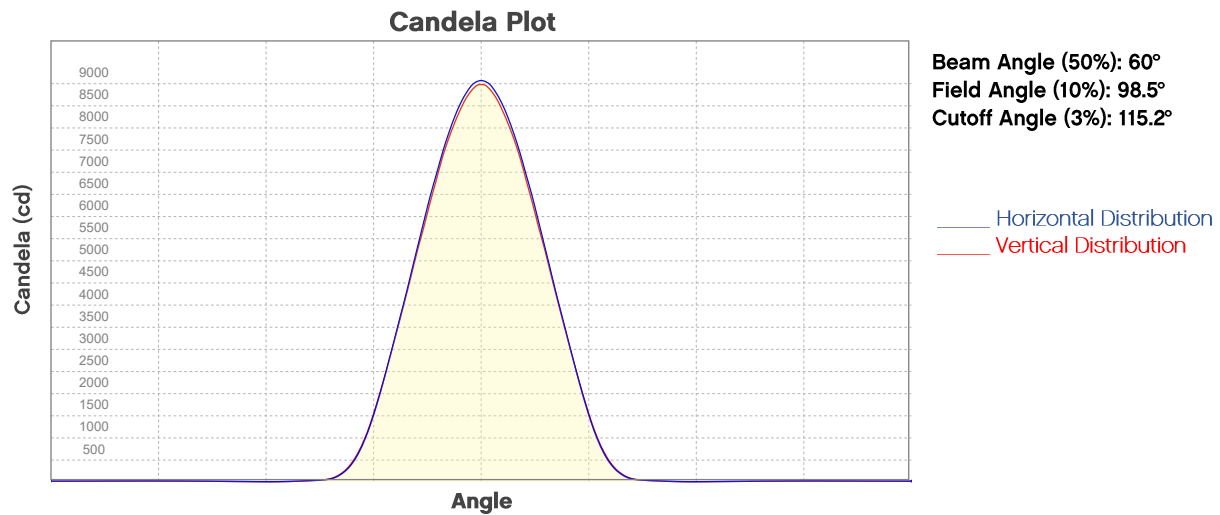


### Beam Intensities from 1-20m (3.3-65.6ft)

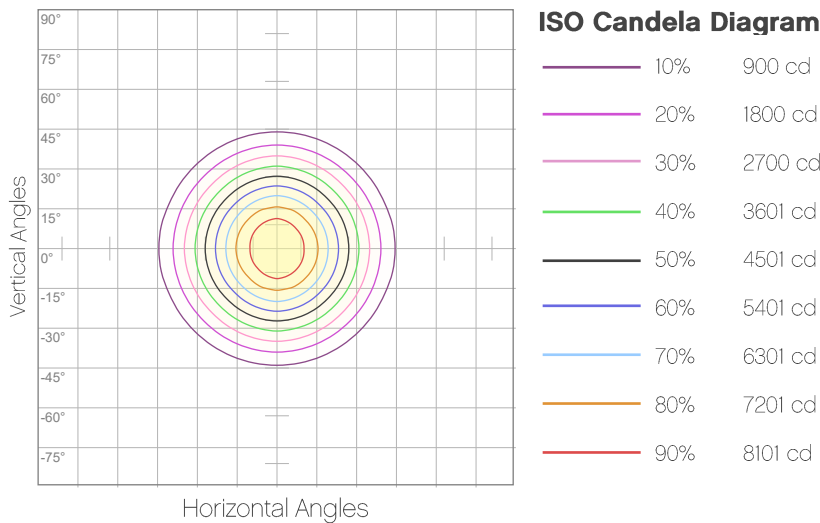
<b>Distance</b>	<b>1m</b>	<b>2m</b>	<b>3m</b>	<b>4m</b>	<b>5m</b>	<b>6m</b>	<b>7m</b>	<b>8m</b>	<b>9m</b>	<b>10m</b>
Lux	9001	2250	1000	563	360	250	184	141	111	90
<b>Distance</b>	<b>11m</b>	<b>12m</b>	<b>13m</b>	<b>14m</b>	<b>15m</b>	<b>16m</b>	<b>17m</b>	<b>18m</b>	<b>19m</b>	<b>20m</b>
Lux	74	63	53	46	40	35	31	28	25	23
<b>Distance</b>	<b>3.3ft</b>	<b>6.6ft</b>	<b>9.8ft</b>	<b>13.1ft</b>	<b>16.4ft</b>	<b>19.7ft</b>	<b>23ft</b>	<b>26.2ft</b>	<b>29.5ft</b>	<b>32.8ft</b>
FC	836	209	93	52	33	23	17	13	10	8
<b>Distance</b>	<b>36.1ft</b>	<b>39.4ft</b>	<b>42.7ft</b>	<b>45.9ft</b>	<b>49.2ft</b>	<b>52.5ft</b>	<b>55.8ft</b>	<b>59.1ft</b>	<b>62.3ft</b>	<b>65.6ft</b>
FC	7	6	5	4	4	3	3	3	2	2

# Photometric & Chromaticity Report

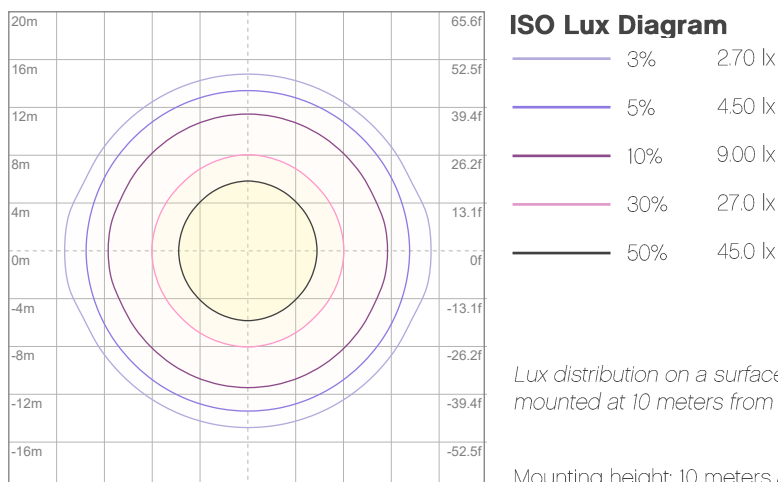
Strike Array 2: Standard Optics, Full Power-Red Shift On



## ISO Diagrams



Conditions:  
 Number of c-planes: 8  
 Candela at center: 9001 cd



Conditions:  
 Number of c-planes: 8  
 Candela at center: 90.0 lx

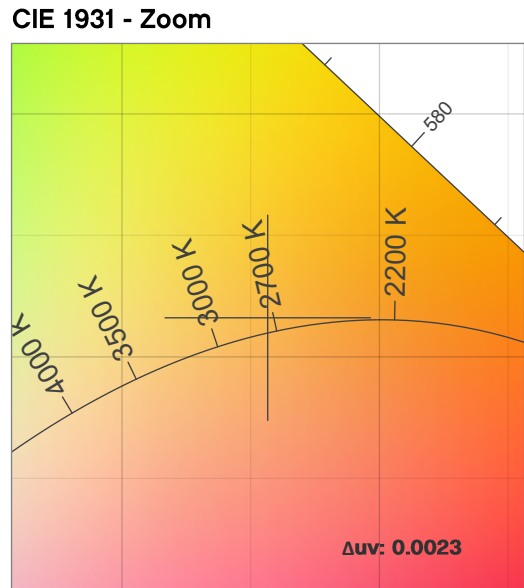
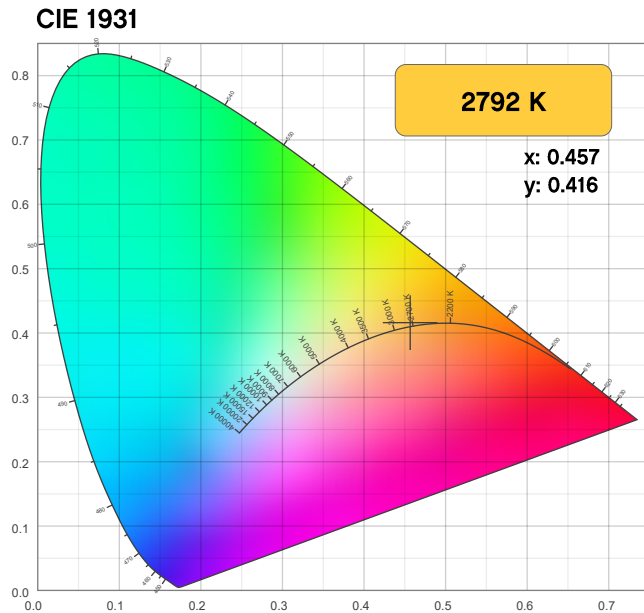
*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters / 33 feet

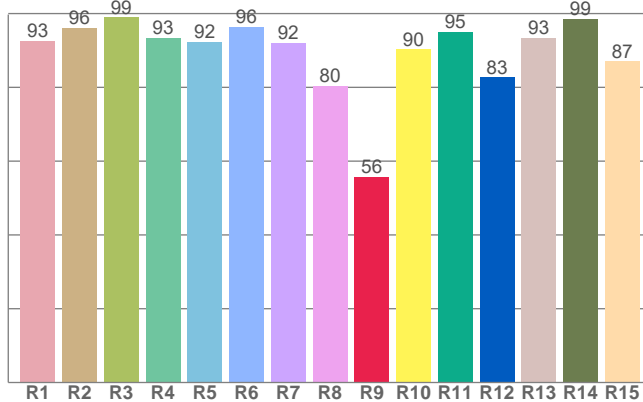
# Photometric & Chromaticity Report

Strike Array 2: Standard Optics, Full Power-Red Shift On

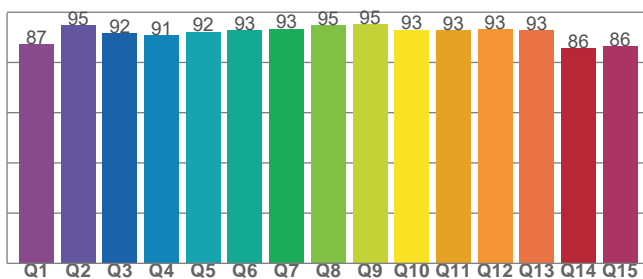
## Chromaticity



**CRI: 92.8 (R1-R8)**



**CQS: 91.1**



**Color Parameters**

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2792 K	0.457	0.416

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0023	0.416	0.258

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
92.8	55.8	91.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
91	92.1	97.1

# Photometric & Chromaticity Report

Strike Array 2: Standard Optics, Full Power-Red Shift On

## TM-30 Details

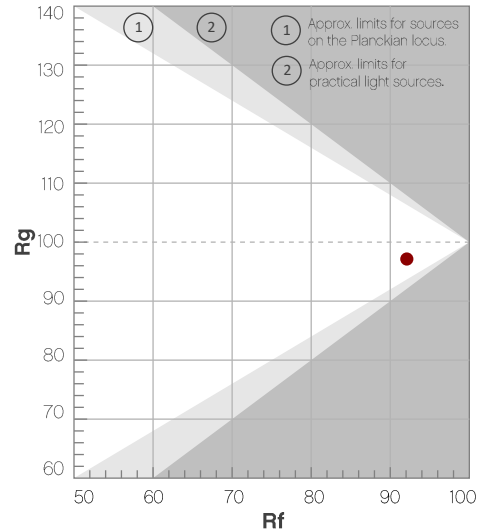
**Rf 92.1**

Fidelity Index  
(R<sub>f</sub>)

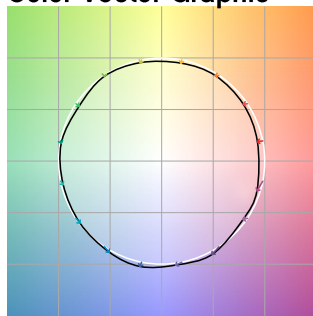
**Rg 97.1**

Gammut Index  
(R<sub>g</sub>)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	0%
2	93	-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	2%	-9%
15	92	-3%	-3%
16	86	-4%	-10%



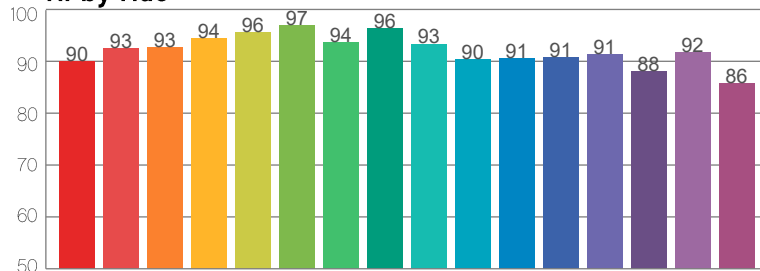
Color Vector Graphic



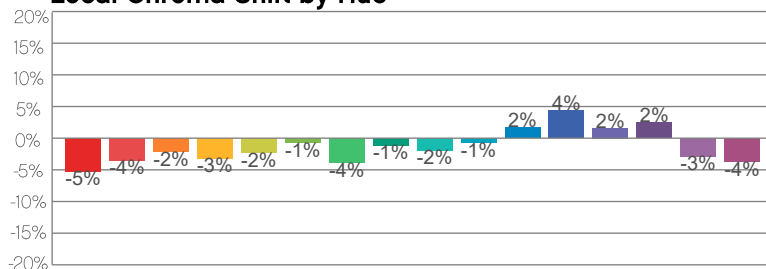
Color Distortion Graphic



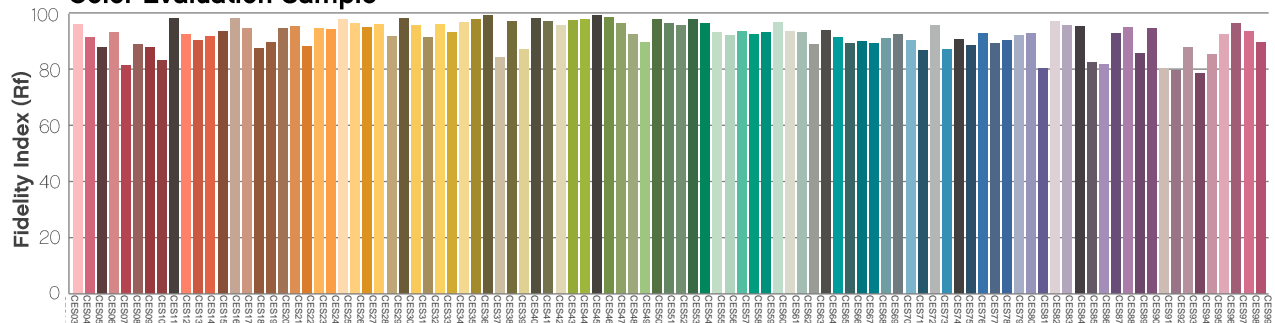
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





## Contact Us

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