

# COLORADO *SOLO BAR*<sub>1</sub>

## PHOTOMETRICS REPORT



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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 Davie, 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.



# Photometrics & Chromaticity Reports

# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Full Power

## Report Summary

### Measurements

Fixture Output: 4285 lm  
Fixture Peak: 21866 cd  
Fixture Efficacy: 39 lm/W  
Intensity @ 5m: 874 lux  
Color Temperature: 9056 K  
CRI: 53.9      CRI R9 Value: -123.1  
CQS: 81.5  
TLCI: 63  
TM-30 Rf: 70.5  
TM-30 Rg: 125.4  
Beam Angle (50%): 18°  
Field Angle (10%): 40.9°  
Cutoff Angle (3%): 73.2°

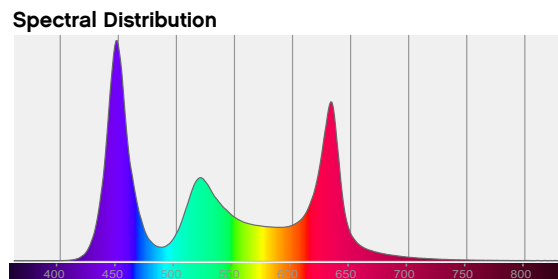
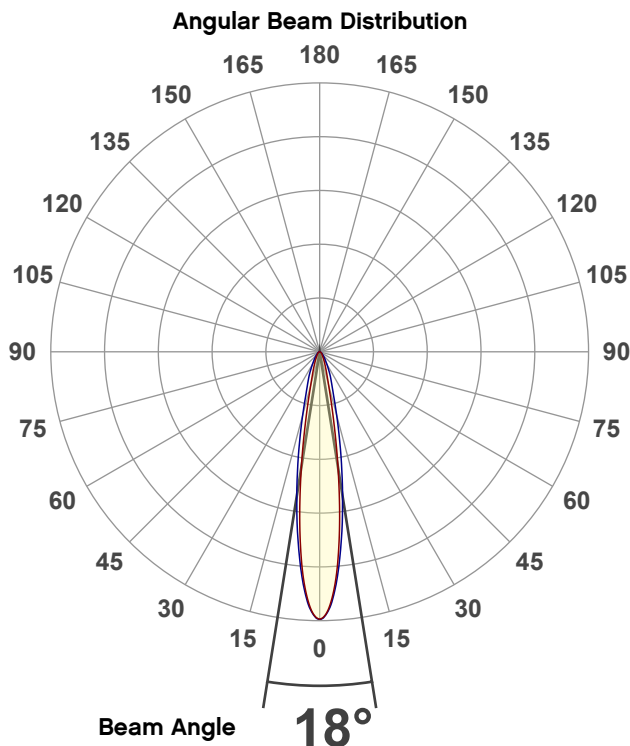


### Conditions

AC Supply: 117 V, 60 Hz  
Power: 109.64 W  
Current: 0.937 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

## Overall Measurement



**Tested Color** (CIE 1931):  
X: 0.302  
Y: 0.259



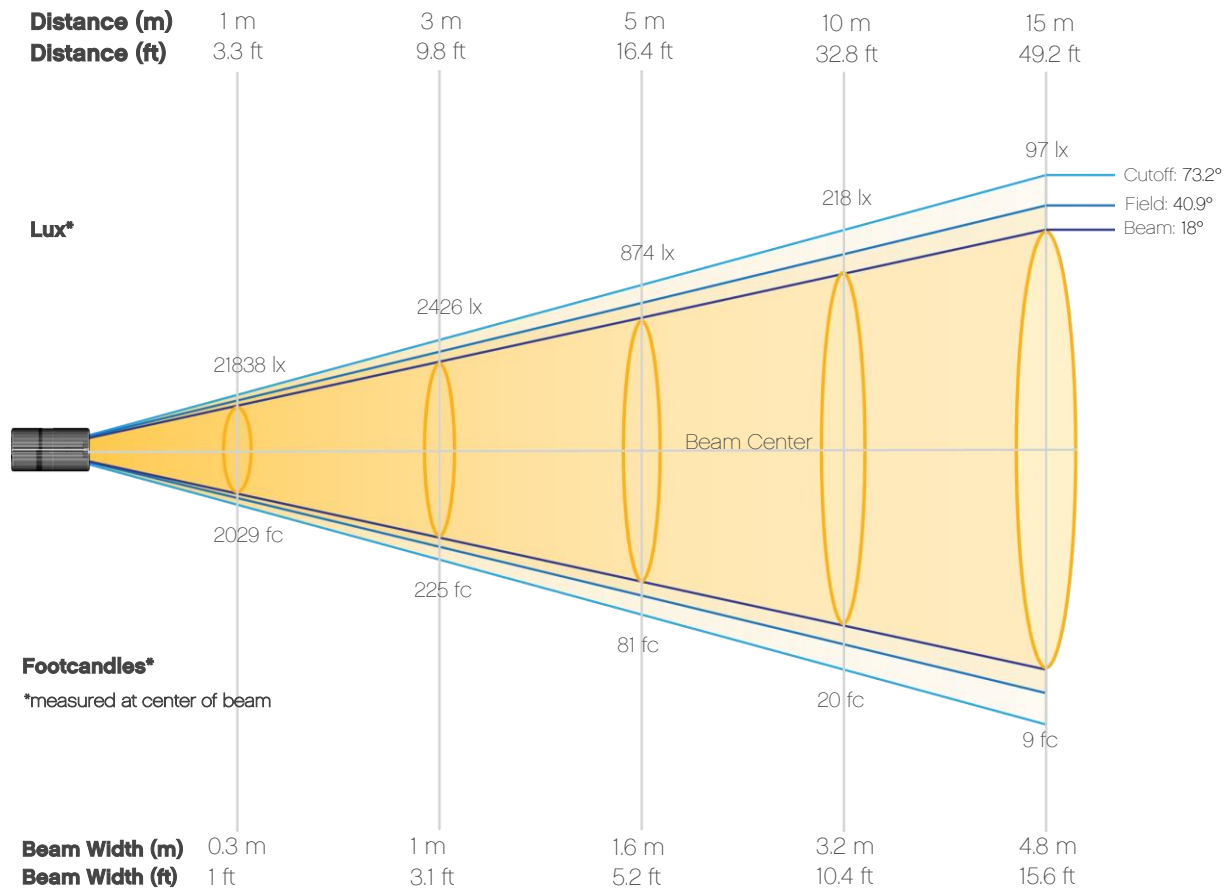
**Light Quality**  
CRI: 53.9

**Color Temperature**  
9056 K

# Photometric & Chromaticity Report

## COLORado Solo Bar 1: Standard Optics - Full Power

### Beam Details



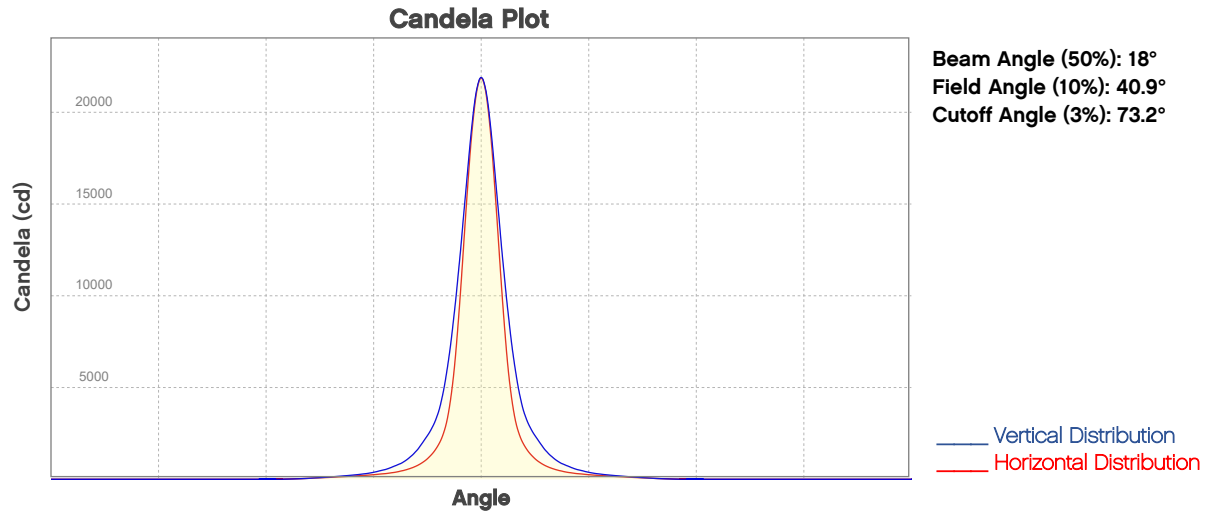
### Beam Intensities from 1-20m (3.3-65.6ft)

<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	21838	5459	2426	1365	874	607	446	341	270	218
<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	180	152	129	111	97	85	76	67	60	55
<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	2029	507	225	127	81	56	41	32	25	20
<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	17	14	12	10	9	8	7	6	6	5



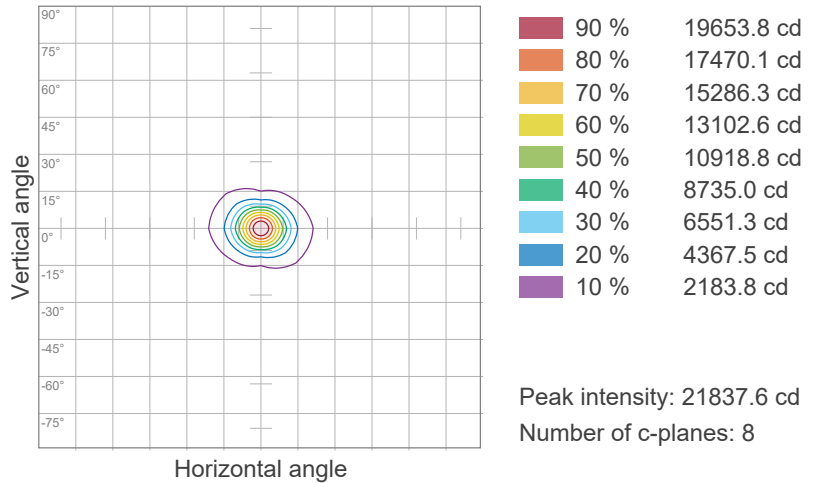
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Full Power

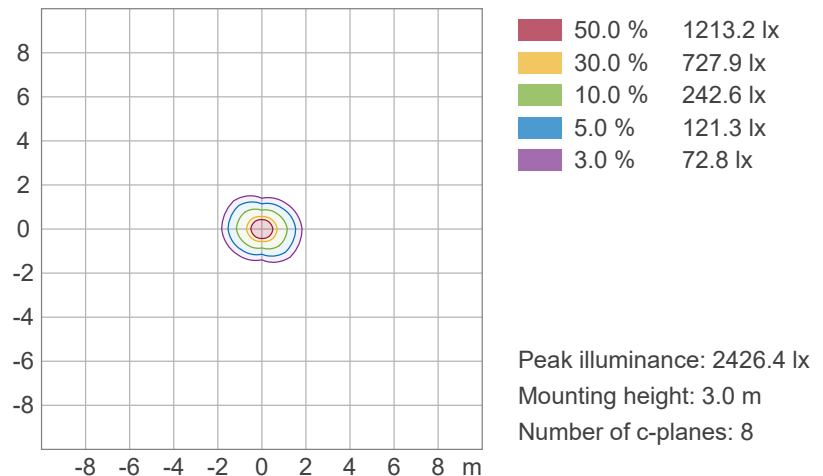


## ISO Diagrams

### ISO Candela Diagram



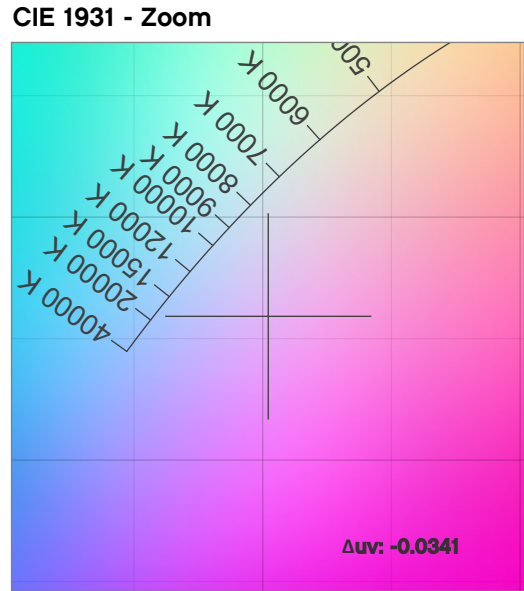
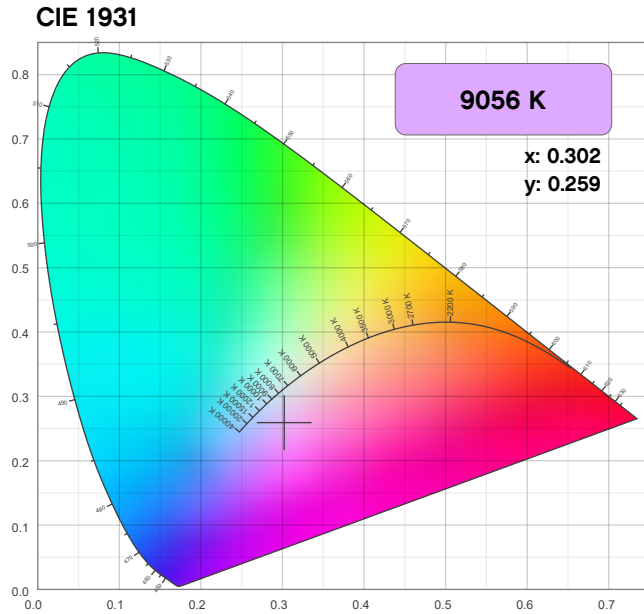
### ISO Lux Diagram



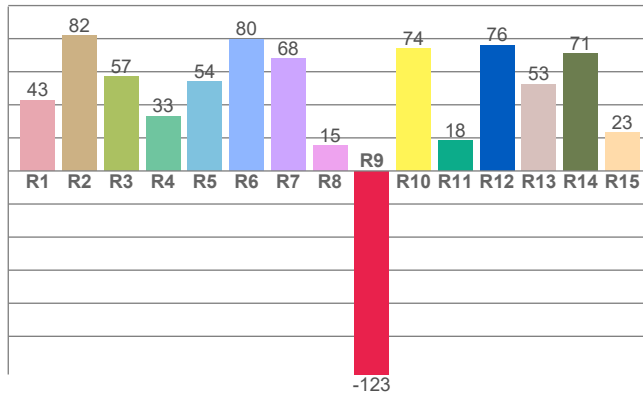
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Full Power

## Chromaticity



**CRI: 53.9 (R1-R8)**

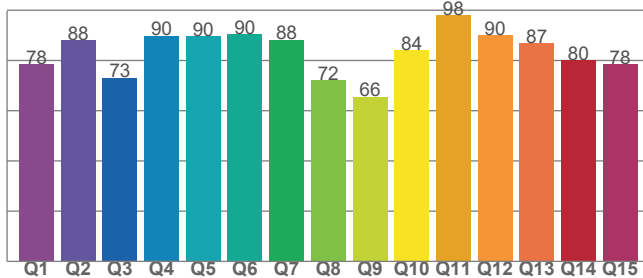


**Color Parameters**

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
9056 K	0.302	0.259

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0341	0.259	0.220

**CQS: 81.5**



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
53.9	-123.1	81.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
63	70.5	125.4

# Photometric & Chromaticity Report

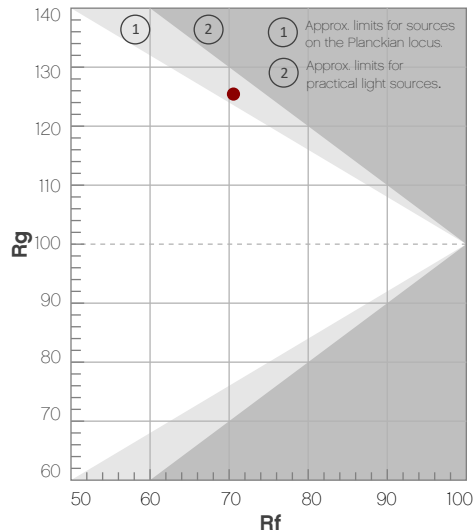
COLORado Solo Bar 1: Standard Optics - Full Power

## TM-30 Details

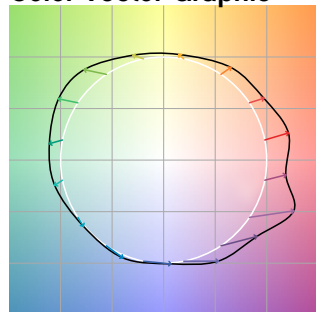
**Rf 70.5**  
Fidelity Index  
(R<sub>f</sub>)

**Rg 125.4**  
Gammut Index  
(R<sub>g</sub>)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	57	24%	2%
2	70	14%	-4%
3	76	11%	-4%
4	86	3%	6%
5	78	6%	9%
6	69	16%	15%
7	72	18%	7%
8	70	12%	6%
9	85	8%	3%
10	85	0%	10%
11	61	1%	20%
12	65	-3%	27%
13	61	6%	33%
14	49	12%	34%
15	53	32%	29%
16	59	19%	9%



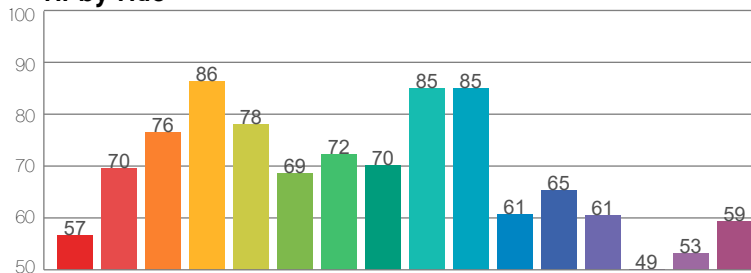
Color Vector Graphic



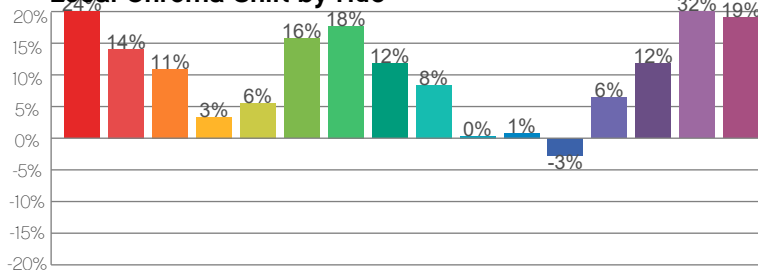
Color Distortion Graphic



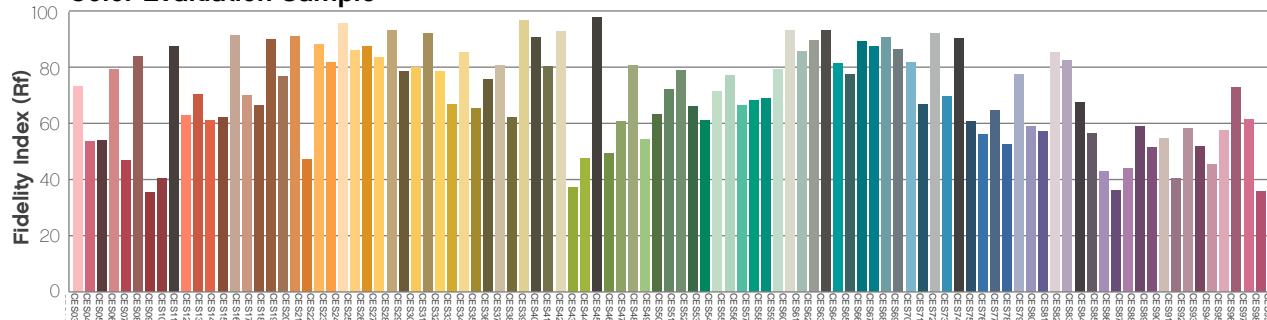
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Half Filter - Full Power

## Report Summary

### Measurements

Fixture Output: 4372 lm  
Fixture Peak: 15008 cd  
Fixture Efficacy: 41 lm/W  
Intensity @ 5m: 595 lux  
Color Temperature: 8770 K  
CRI: 52.7      CRI R9 Value: -133.9  
CQS: 81.2  
TLCI: 60  
TM-30 Rf: 70.3  
TM-30 Rg: 125.4  
Beam Angle (50%): 22.1°  
Field Angle (10%): 52.5°  
Cutoff Angle (3%): 90.2°

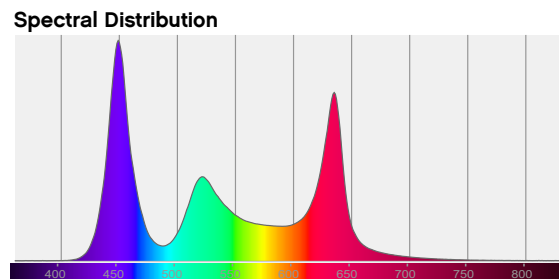
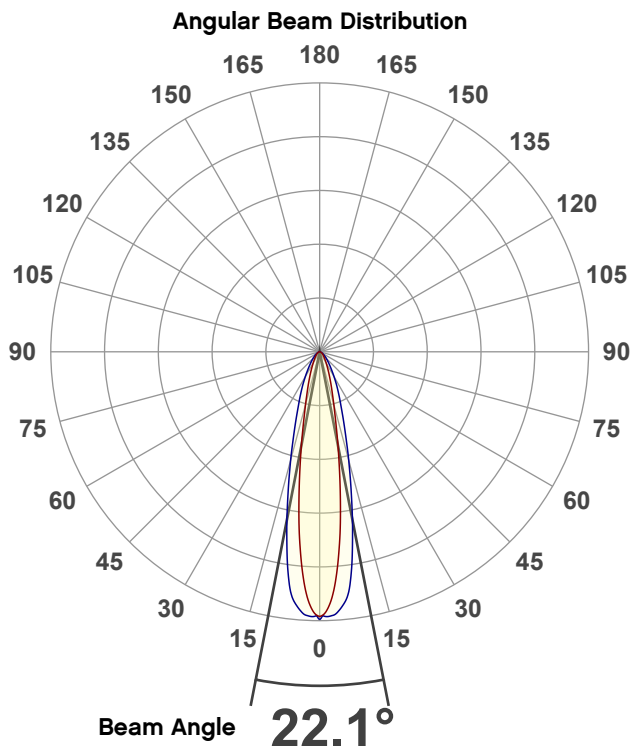


### Conditions


AC Supply: 117 V, 60 Hz  
Power: 107.06 W  
Current: 0.919 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 Davie, FL on 8/14/2024 to LM-63-2002 Standards.


## Overall Measurement




**Tested Color (CIE 1931):**  
X: 0.304  
Y: 0.260



**Light Quality**  
CRI: 52.7



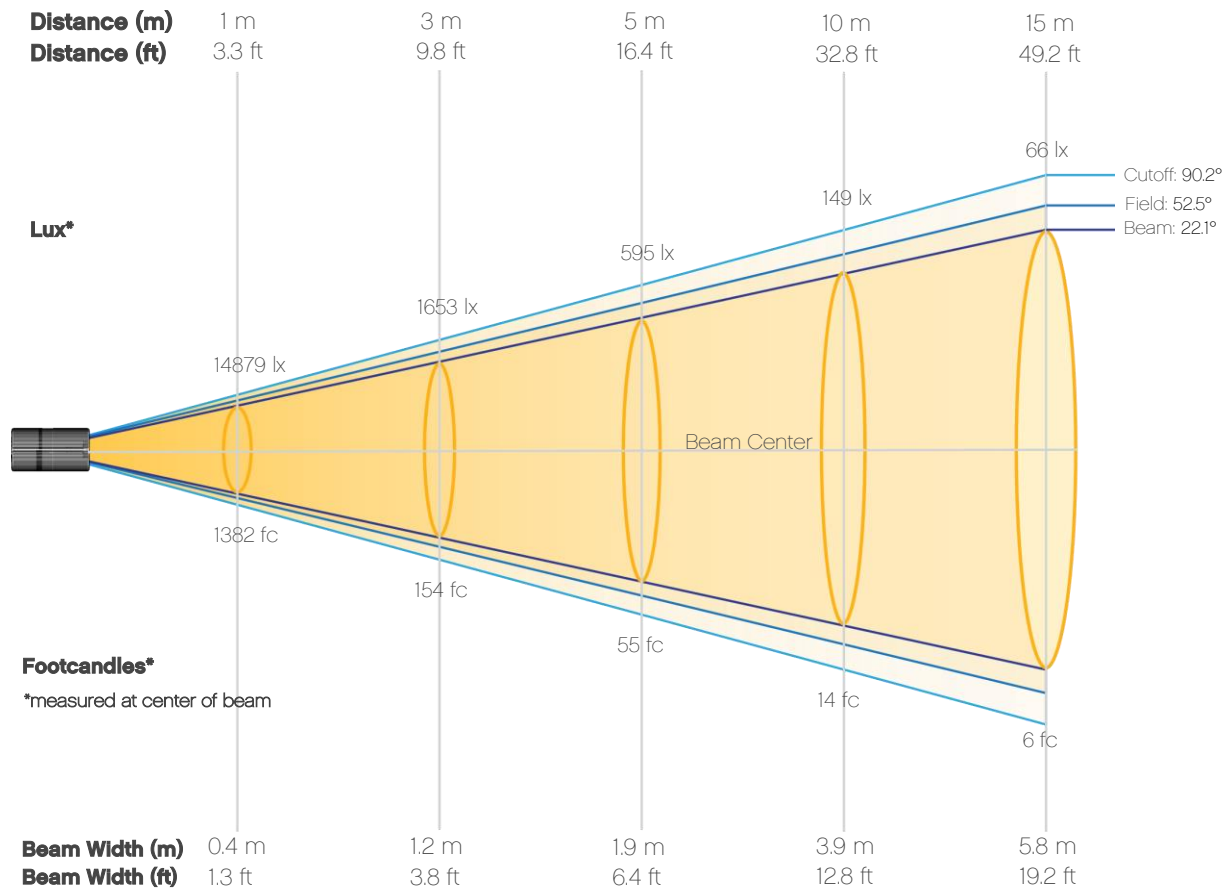
**Color Temperature**  
8770 K



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Half Filter - Full Power

## Beam Details

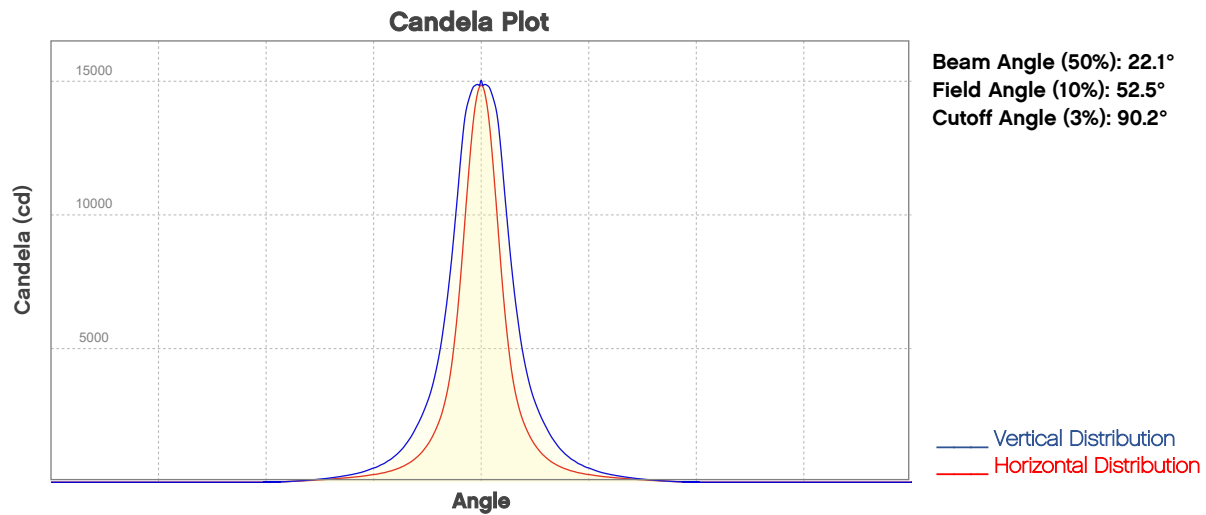


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	14879	3720	1653	930	595	413	304	232	184	149
<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	123	103	88	76	66	58	51	46	41	37
<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	1382	346	154	86	55	38	28	22	17	14
<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	11	10	8	7	6	5	5	4	4	3

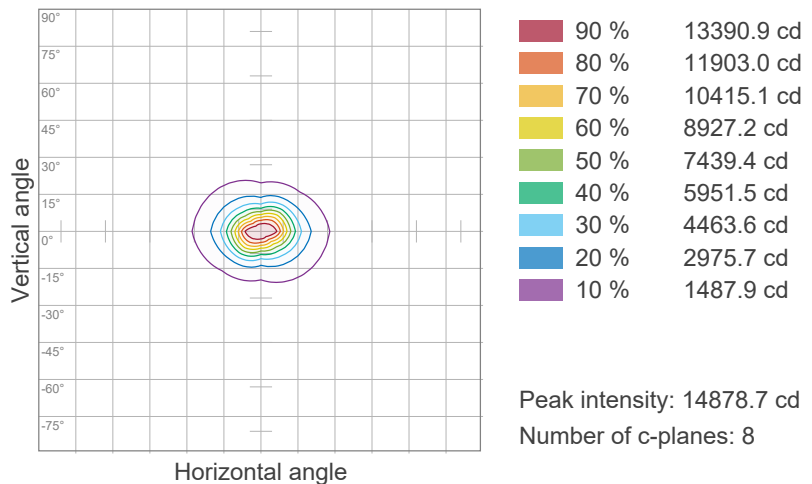
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Half Filter - Full Power

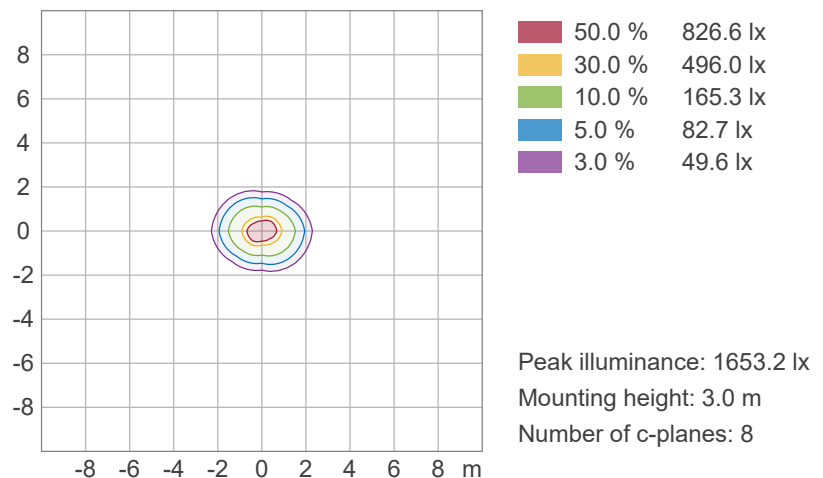


## ISO Diagrams

### ISO Candela Diagram



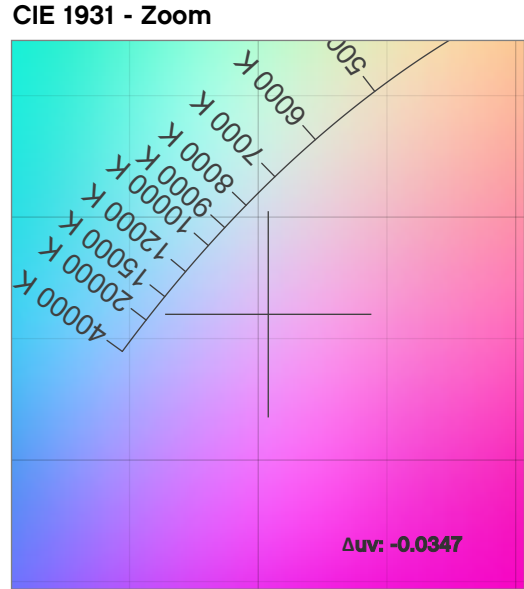
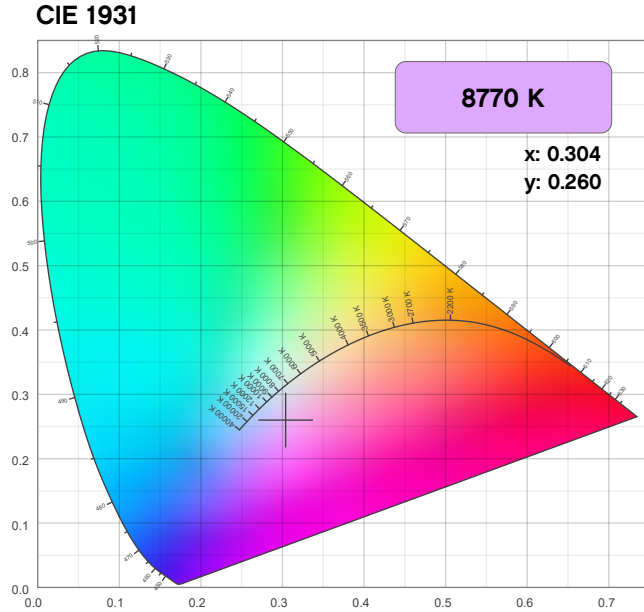
### ISO Lux Diagram



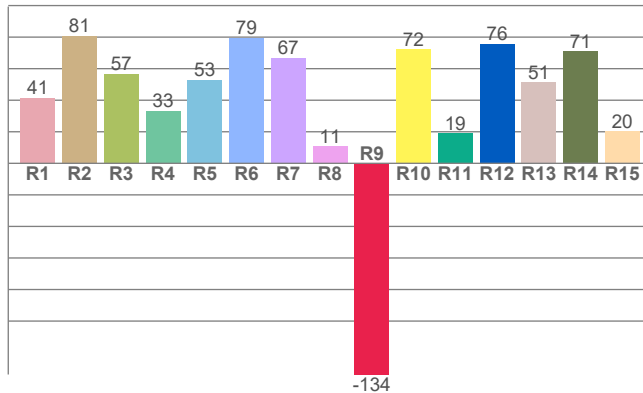
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Half Filter - Full Power

## Chromaticity



**CRI: 52.7 (R1-R8)**

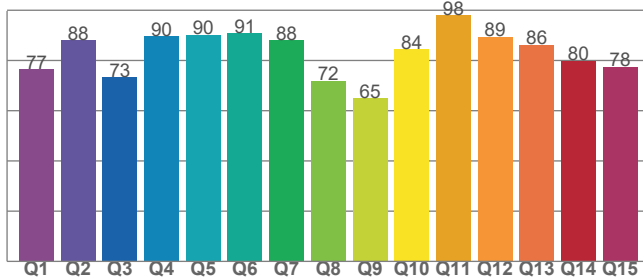


**Color Parameters**

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8770 K	0.304	0.260

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0347	0.260	0.221

**CQS: 81.2**



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
52.7	-133.9	81.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
60	70.3	125.4

# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Half Filter - Full Power

## TM-30 Details

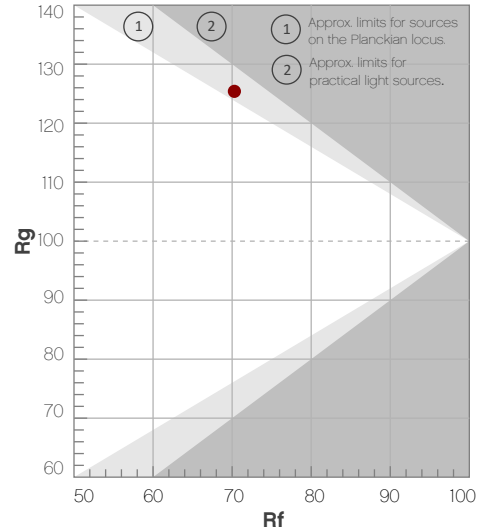
**Rf 70.3**

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

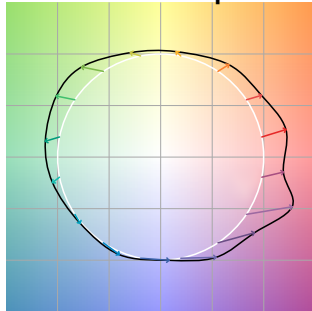
**Rg 125.4**

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

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	54	24%	2%
2	69	15%	-5%
3	76	11%	-5%
4	87	3%	5%
5	78	5%	9%
6	69	15%	15%
7	73	17%	7%
8	67	13%	7%
9	86	8%	4%
10	85	1%	10%
11	62	1%	19%
12	64	-3%	27%
13	60	6%	34%
14	48	12%	35%
15	51	33%	31%
16	60	20%	9%



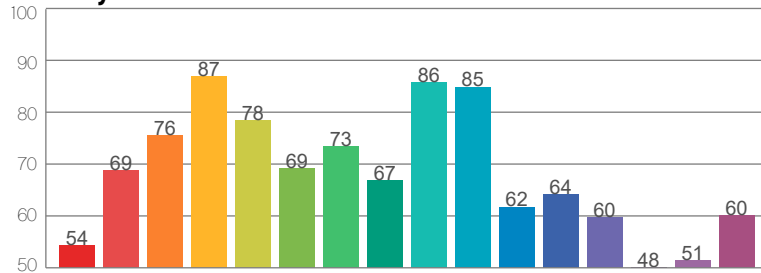
Color Vector Graphic



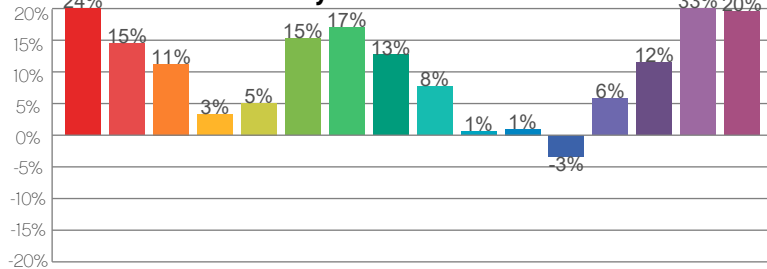
Color Distortion Graphic



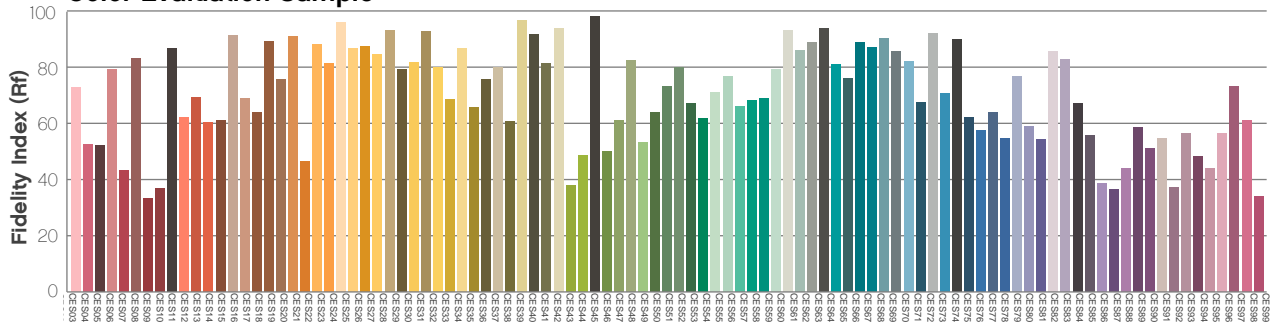
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/CYC Filter - Full Power

## Report Summary

### Measurements

Fixture Output: 3795 lm  
Fixture Peak: 6913 cd  
Fixture Efficacy: 35 lm/W  
Intensity @ 5m: 276 lux  
Color Temperature: 8803 K  
CRI: 54.9      CRI R9 Value: -117.0  
CQS: 81.8  
TLCI: 63  
TM-30 Rf: 71.2  
TM-30 Rg: 124.9  
Beam Angle (50%): 31.9°  
Field Angle (10%): 76.1°  
Cutoff Angle (3%): 127.3°

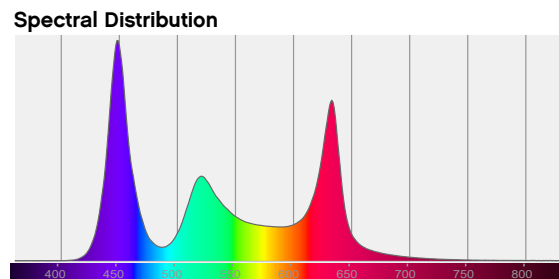
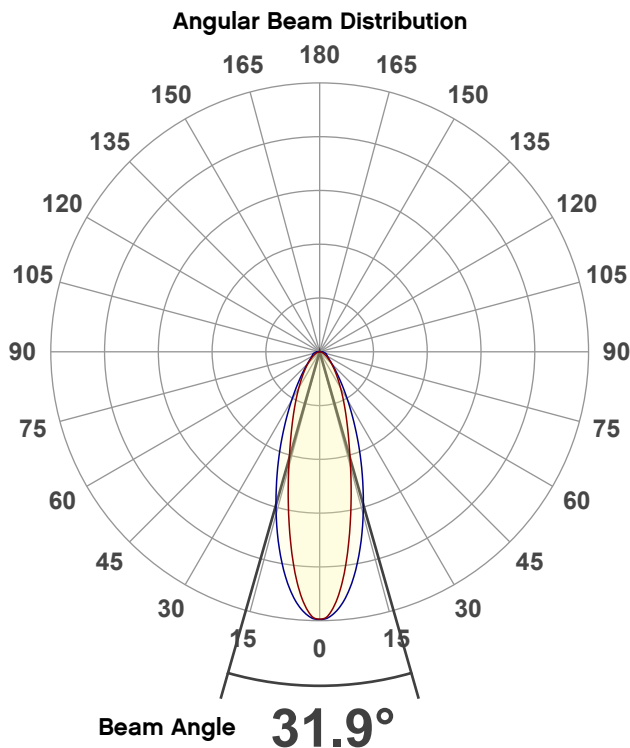


### Conditions


AC Supply: 116 V, 60 Hz  
Power: 109.48 W  
Current: 0.944 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 Davie, FL on 8/14/2024 to LM-63-2002 Standards.


## Overall Measurement




Tested Color (CIE 1931):  
X: 0.303  
Y: 0.261



Light Quality  
CRI: 54.9



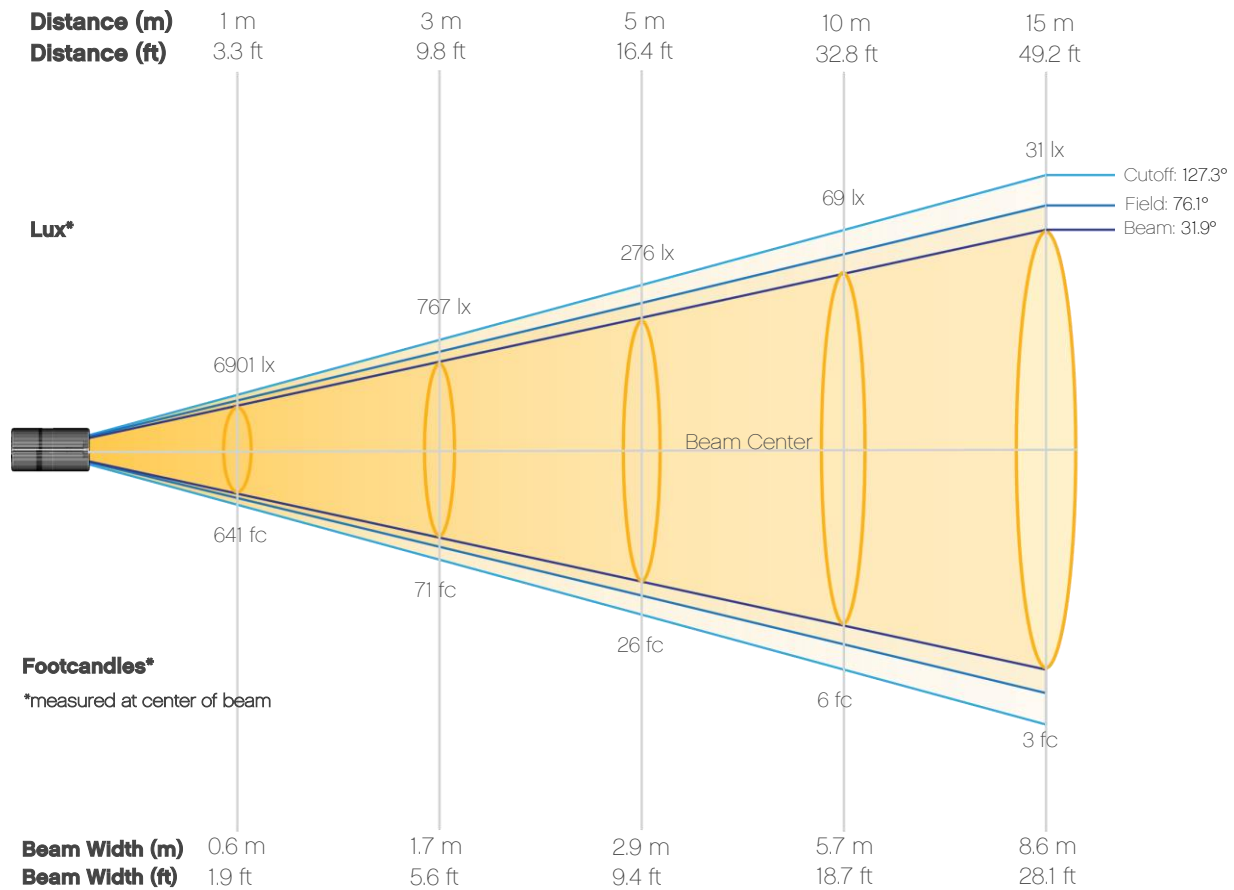
Color Temperature  
8803 K



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/CYC Filter - Full Power

## Beam Details

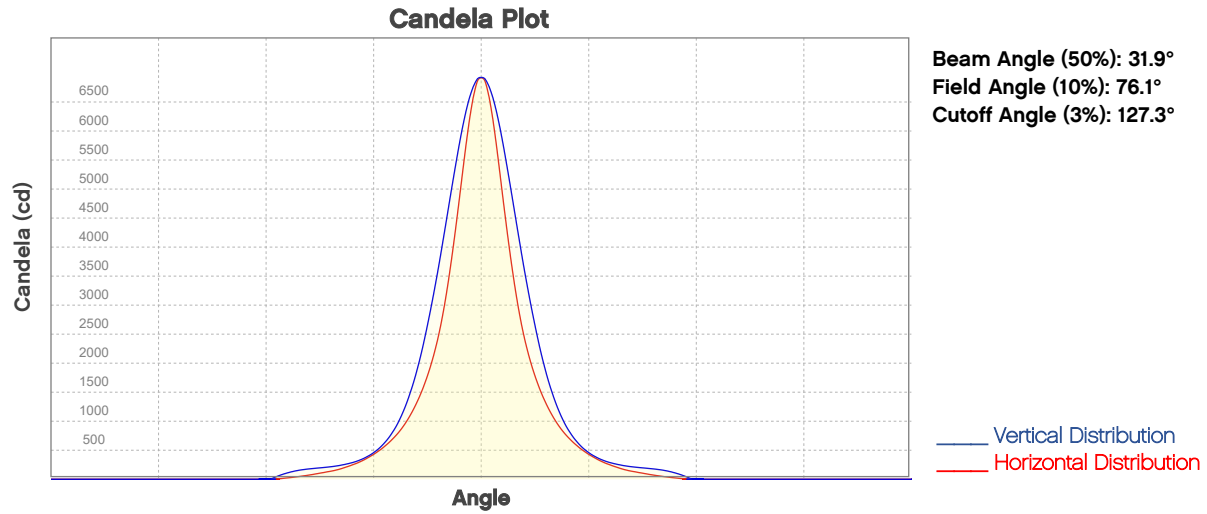


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	6901	1725	767	431	276	192	141	108	85	69
<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	57	48	41	35	31	27	24	21	19	17
<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	641	160	71	40	26	18	13	10	8	6
<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	5	4	4	3	3	3	2	2	2	2

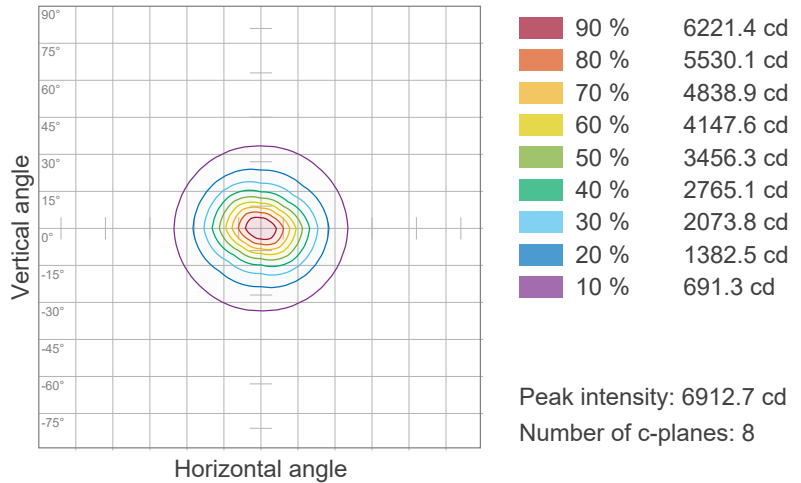
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/CYC Filter - Full Power

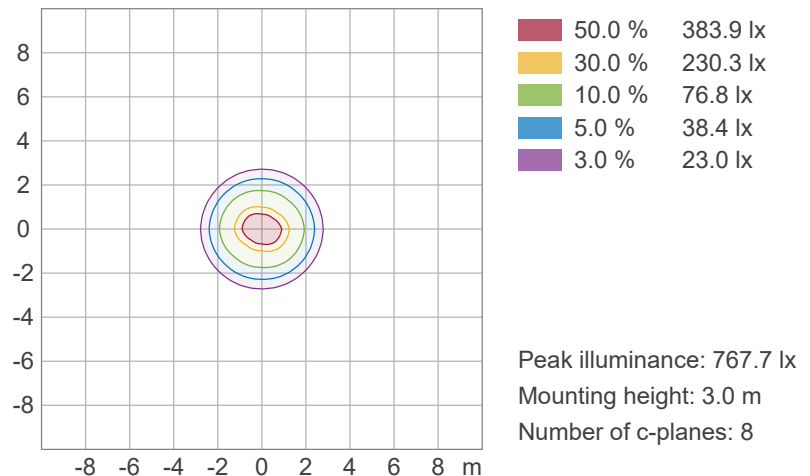


## ISO Diagrams

### ISO Candela Diagram



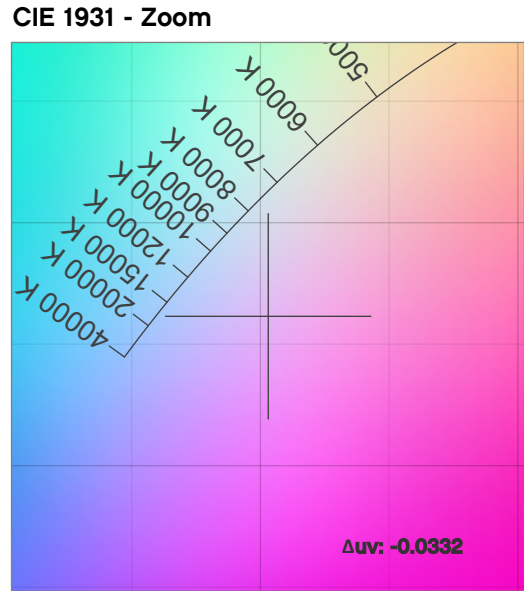
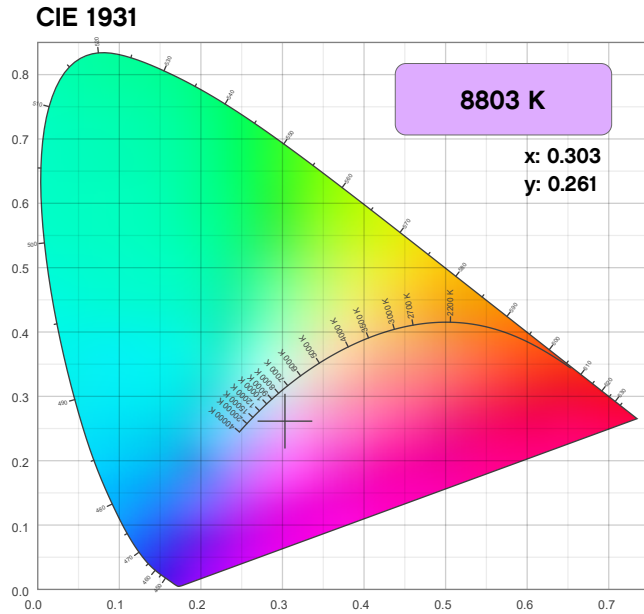
### ISO Lux Diagram



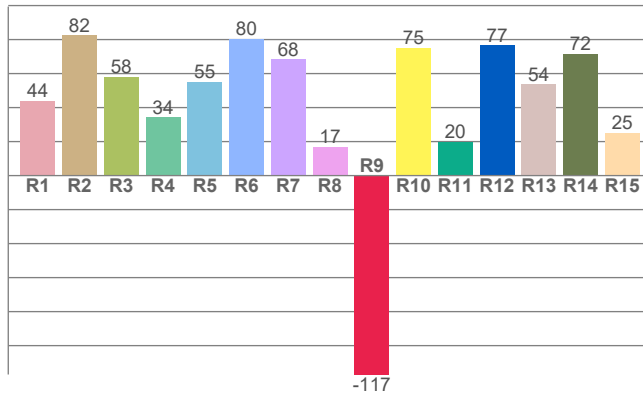
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/CYC Filter - Full Power

## Chromaticity



**CRI: 54.9 (R1-R8)**

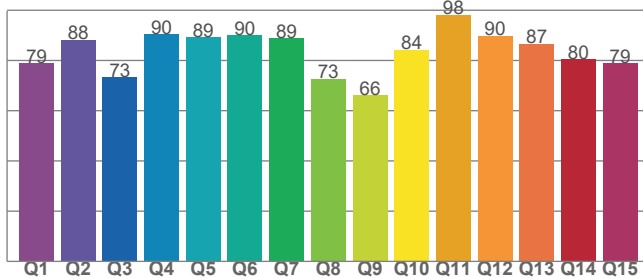


**Color Parameters**

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
8803 K	0.303	0.261

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0332	0.261	0.219

**CQS: 81.8**



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
54.9	-117.0	81.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
63	71.2	124.9

# Photometric & Chromaticity Report

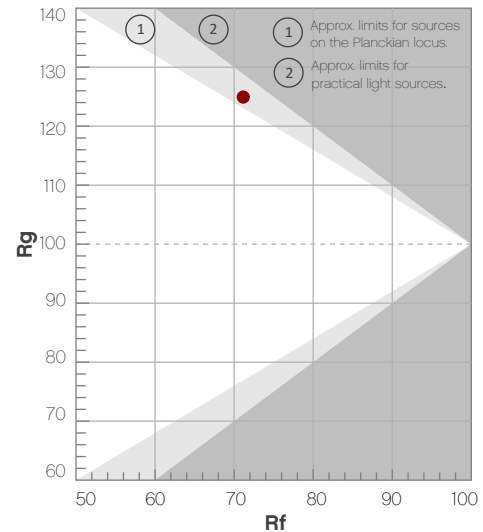
COLORado Solo Bar 1: Standard Optics-w/CYC Filter - Full Power

## TM-30 Details

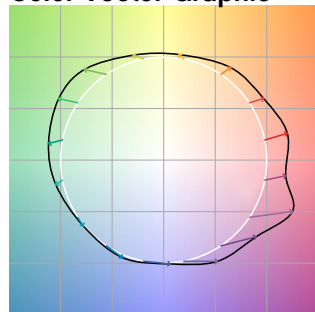
**Rf 71.2**  
Fidelity Index  
(R<sub>f</sub>)

**Rg 124.9**  
Gammut Index  
(R<sub>g</sub>)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	57	23%	2%
2	70	14%	-4%
3	77	11%	-4%
4	87	3%	6%
5	78	6%	9%
6	69	16%	15%
7	72	18%	7%
8	67	13%	6%
9	86	7%	3%
10	85	0%	10%
11	62	1%	19%
12	66	-2%	26%
13	61	6%	32%
14	50	12%	33%
15	54	32%	28%
16	61	19%	8%



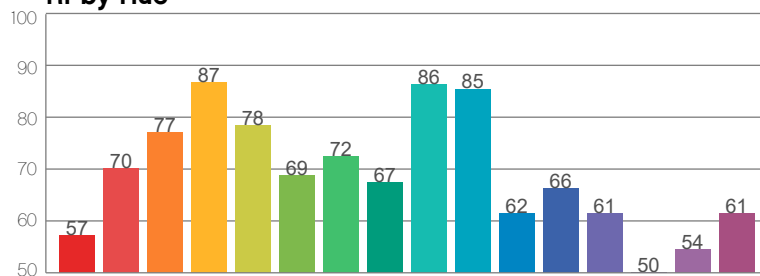
### Color Vector Graphic



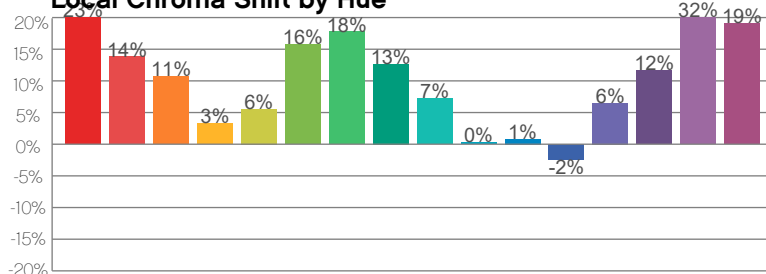
### Color Distortion Graphic



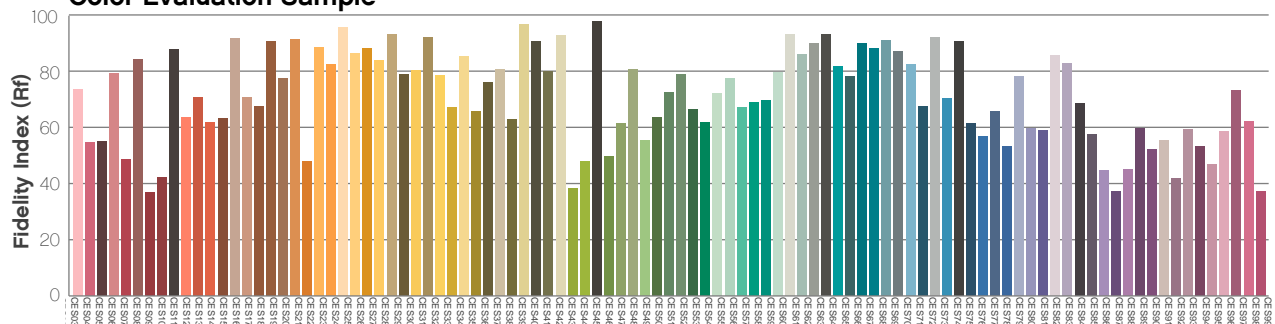
### Rf by Hue



### Local Chroma Shift by Hue



### Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Stealth Filter - Full Power

## Report Summary

### Measurements

Fixture Output: 1257 lm  
Fixture Peak: 3230 cd  
Fixture Efficacy: 12 lm/W  
Intensity @ 5m: 129 lux  
Color Temperature: 7721 K  
CRI: 54.5      CRI R9 Value: -126.5  
CQS: 81.7  
TLCI: 56  
TM-30 Rf: 72.2  
TM-30 Rg: 124.7  
Beam Angle (50%): 26.6°  
Field Angle (10%): 63.9°  
Cutoff Angle (3%): 100.8°

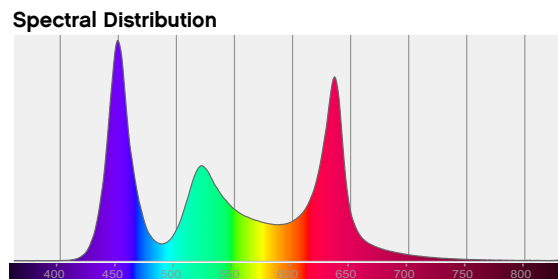
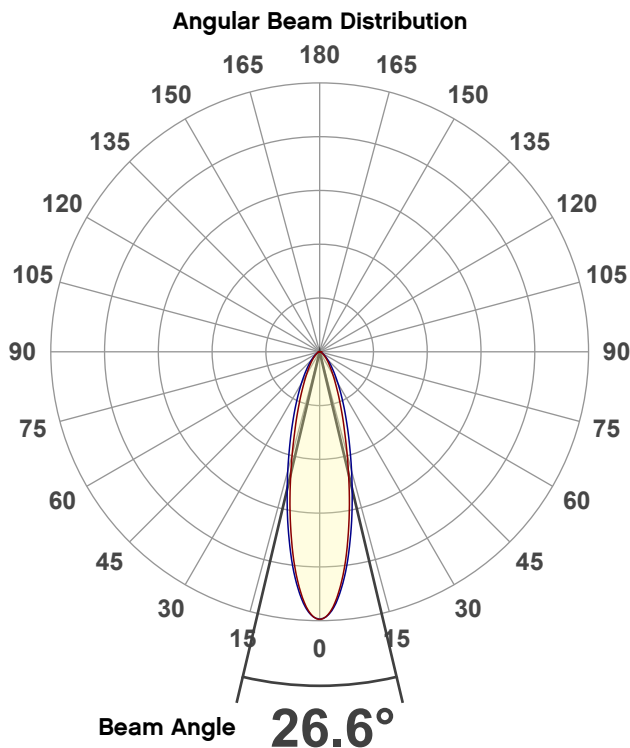


### Conditions


AC Supply: 115 V, 60 Hz  
Power: 105.91 W  
Current: 0.919 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 Davie, FL on 8/14/2024 to LM-63-2002 Standards.

## Overall Measurement




**Tested Color** (CIE 1931):  
X: 0.309  
Y: 0.271



**Light Quality**  
CRI: 54.5



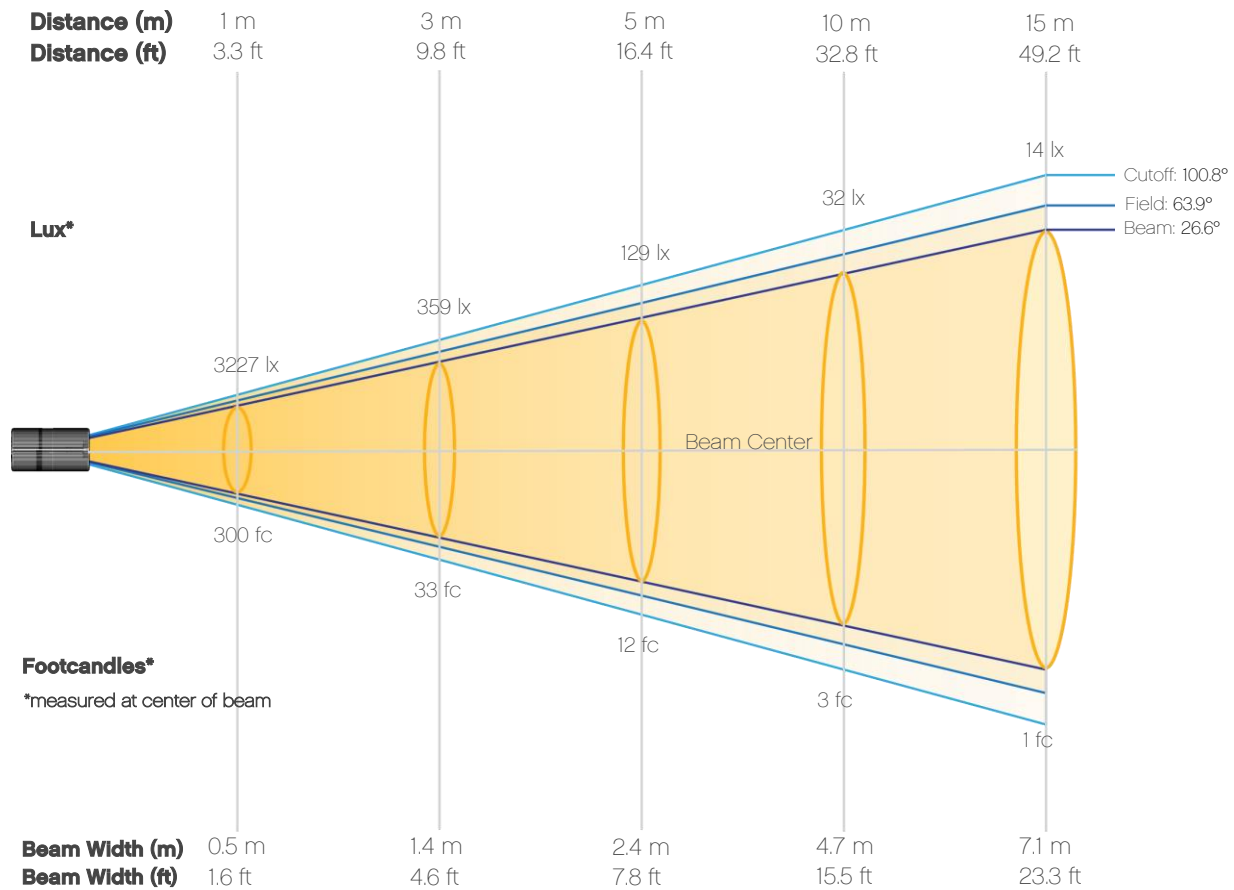
**Color Temperature**  
7721 K



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Stealth Filter - Full Power

## Beam Details

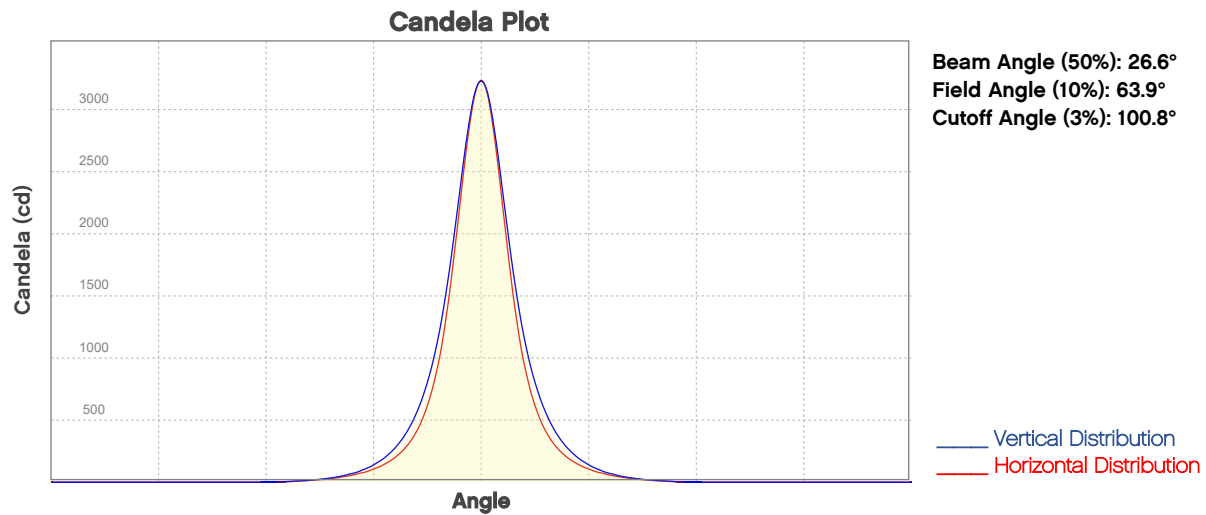


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	3227	807	359	202	129	90	66	50	40	32
<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	27	22	19	16	14	13	11	10	9	8
<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	300	75	33	19	12	8	6	5	4	3
<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	2	2	2	2	1	1	1	1	1	1

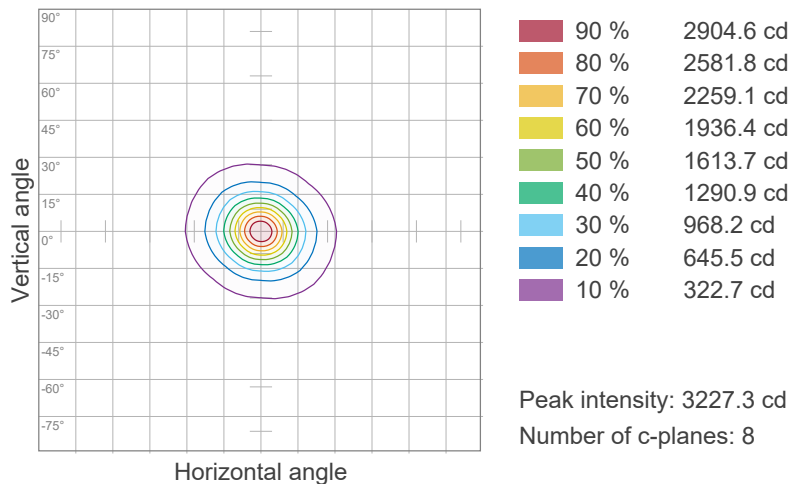
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Stealth Filter - Full Power

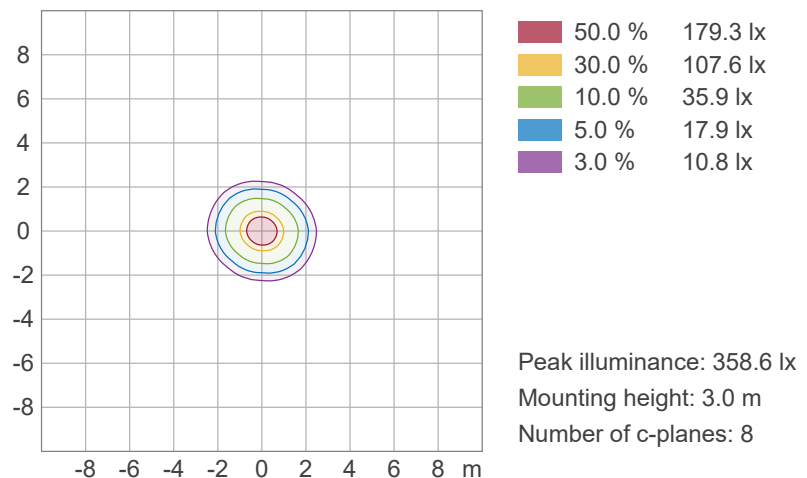


## ISO Diagrams

### ISO Candela Diagram



### ISO Lux Diagram

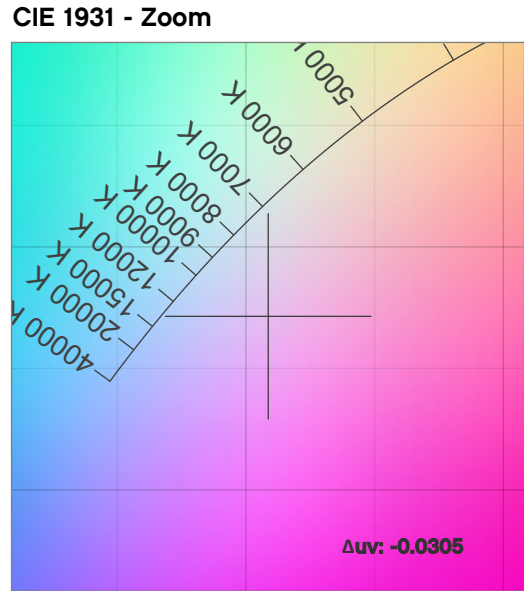
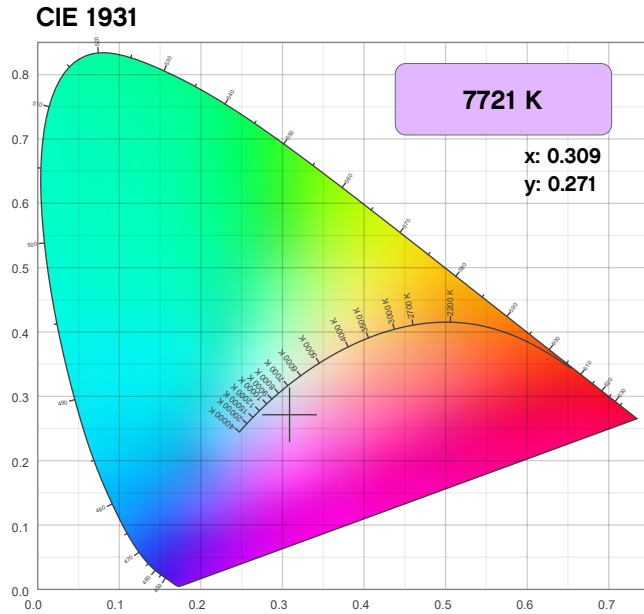




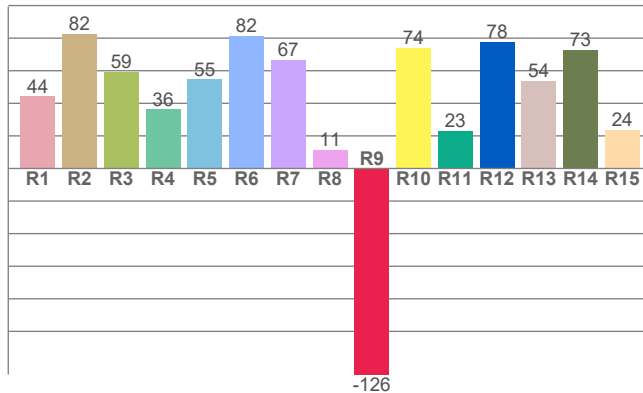
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Stealth Filter - Full Power

## Chromaticity



**CRI: 54.5 (R1-R8)**

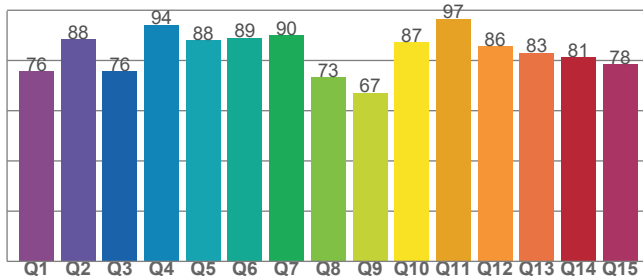


**Color Parameters**

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
7721 K	0.309	0.271

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0305	0.271	0.219

**CQS: 81.7**



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
54.5	-126.5	81.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
56	72.2	124.7

# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics-w/Stealth Filter - Full Power

## TM-30 Details

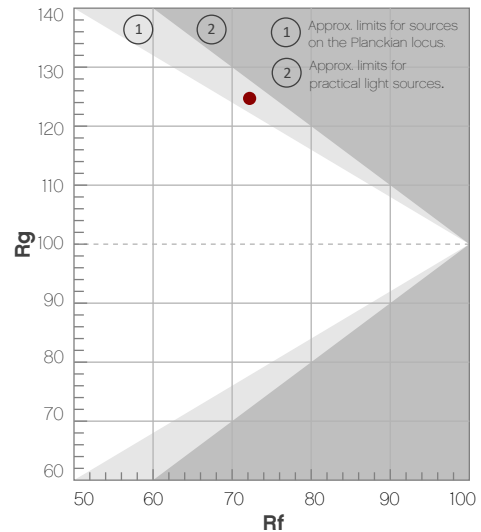
**Rf 72.2**

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

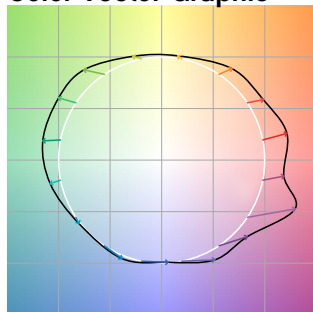
**Rg 124.7**

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

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	55	24%	2%
2	69	14%	-6%
3	77	12%	-7%
4	90	2%	4%
5	81	4%	8%
6	71	15%	14%
7	75	17%	5%
8	71	17%	4%
9	85	10%	1%
10	88	1%	7%
11	65	1%	21%
12	67	-4%	25%
13	62	5%	32%
14	54	8%	28%
15	50	34%	32%
16	61	19%	8%



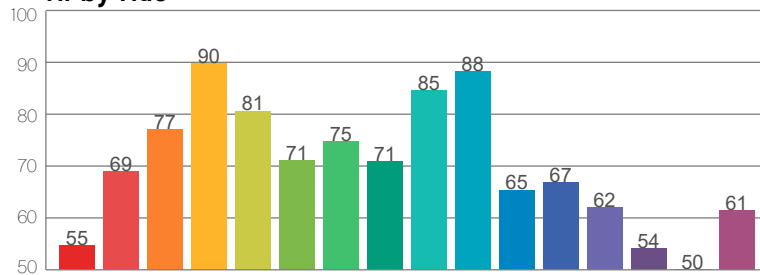
Color Vector Graphic



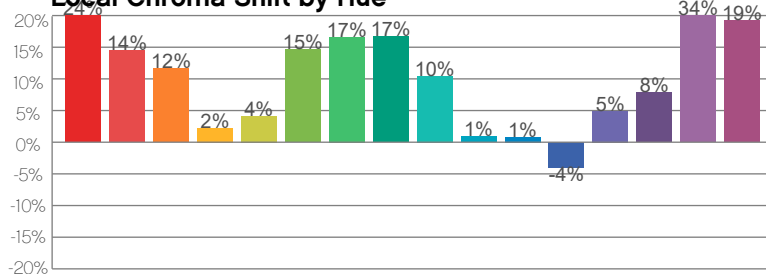
Color Distortion Graphic



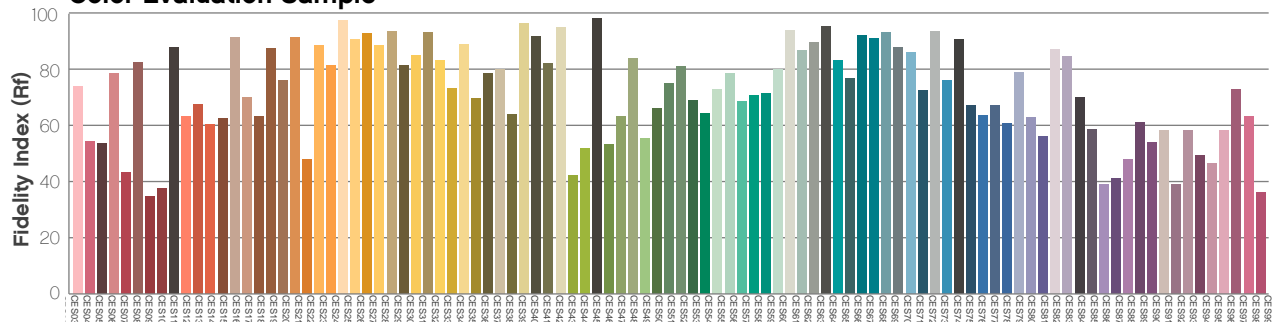
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Red Only

## Report Summary

### Measurements

Fixture Output: 2023 lm  
Fixture Peak: 10304 cd  
Fixture Efficacy: 26 lm/W  
Intensity @ 5m: 412 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCI: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 18°  
Field Angle (10%): 40.8°  
Cutoff Angle (3%): 72.8°

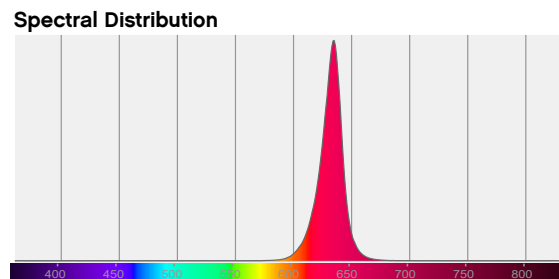
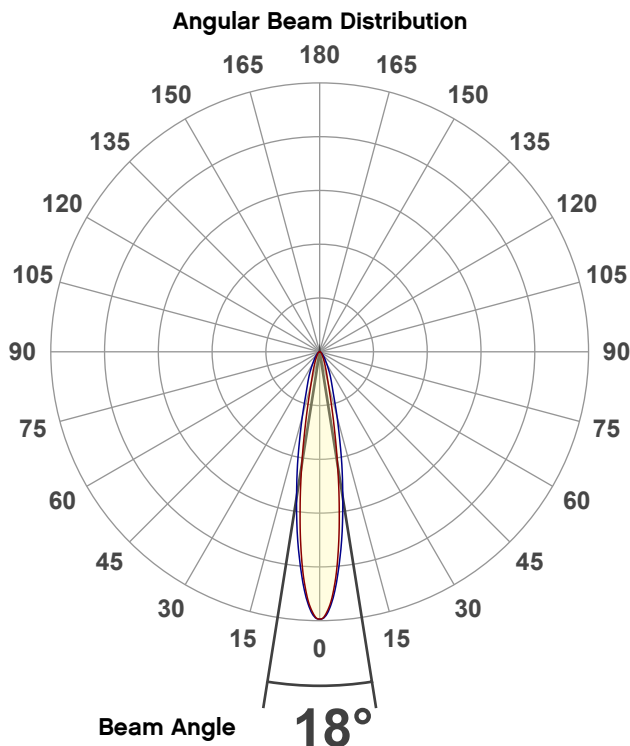


### Conditions

AC Supply: 117 V, 60 Hz  
Power: 79.05 W  
Current: 0.675 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

## Overall Measurement



**Tested Color (CIE 1931):**  
X: 0.699  
Y: 0.300



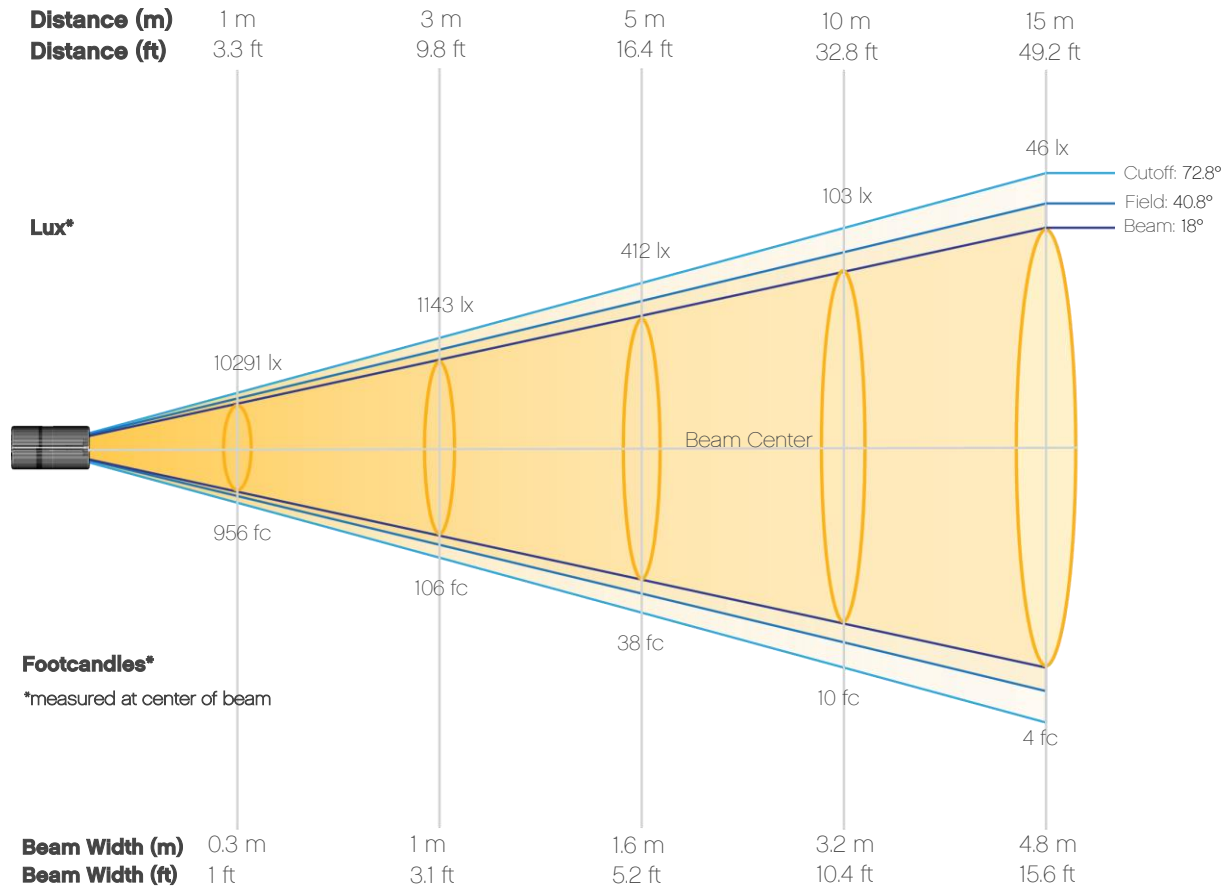
**Light Quality**  
CRI: 0.0

**Color Temperature**  
0 K

# Photometric & Chromaticity Report

## COLORado Solo Bar 1: Standard Optics - Red Only

### Beam Details

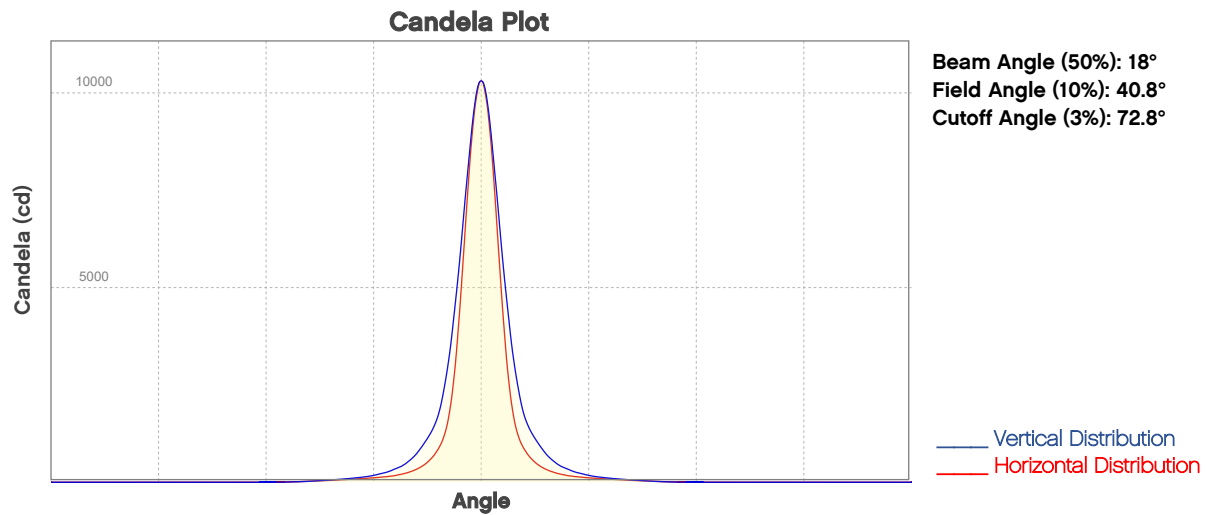


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	10291	2573	1143	643	412	286	210	161	127	103
<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	85	71	61	53	46	40	36	32	29	26
<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	956	239	106	60	38	27	20	15	12	10
<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	8	7	6	5	4	4	3	3	3	2

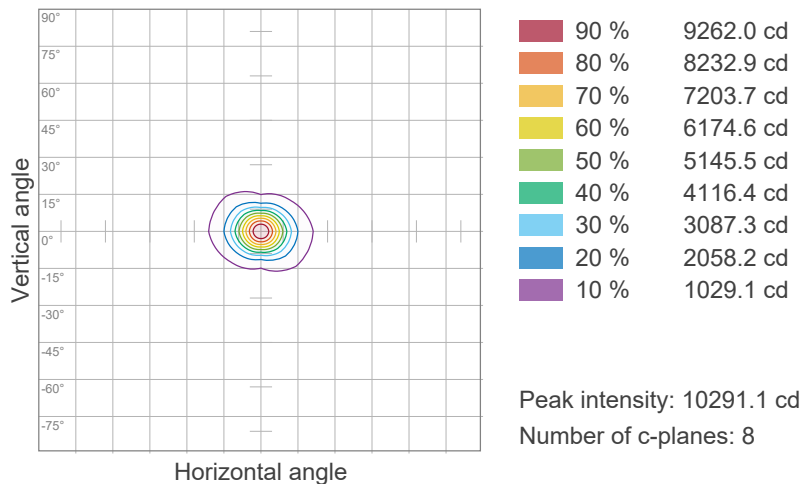
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Red Only

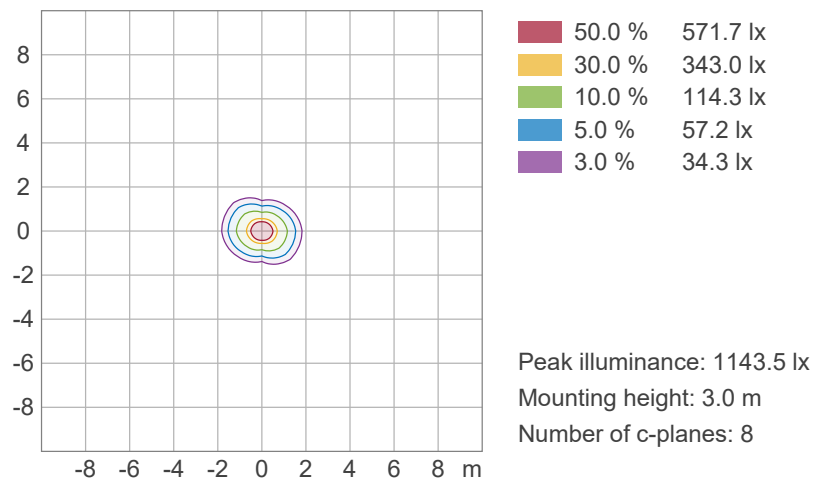


## ISO Diagrams

### ISO Candela Diagram



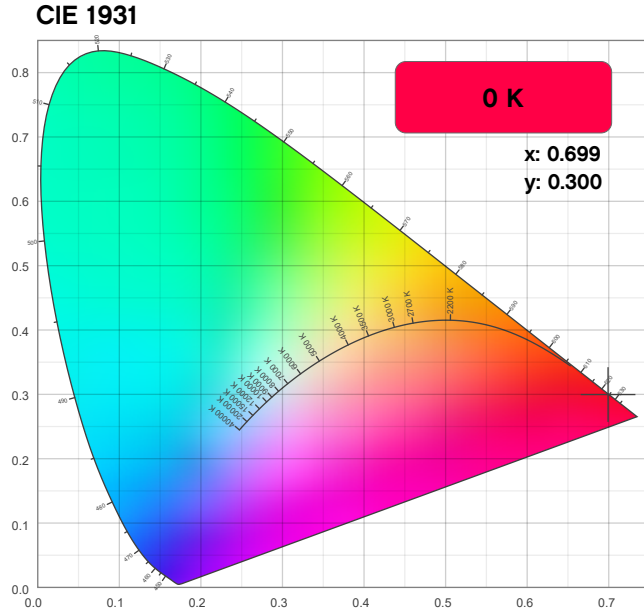
### ISO Lux Diagram



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Red Only

## Chromaticity



### CRI: 0.0 (R1-R8)

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

### CQS: 0.0

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.699	0.300

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
n/a	0.300	0.538

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Red Only

## TM-30 Details

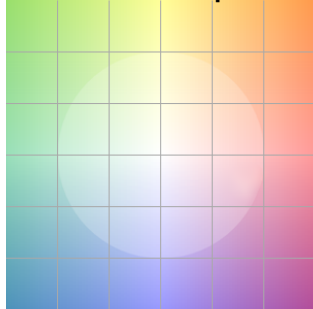
**Rf 0.0**

Fidelity Index  
(Rg)

**Rg 0.0**

Gammut Index  
(Rg)

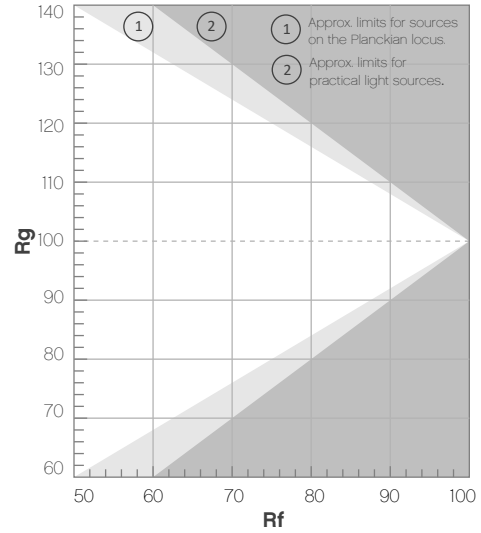
Color Vector Graphic



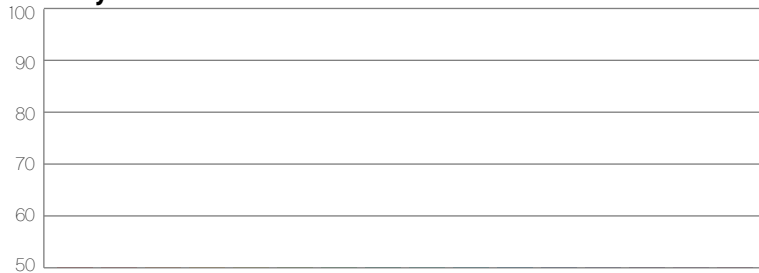
Color Distortion Graphic



Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



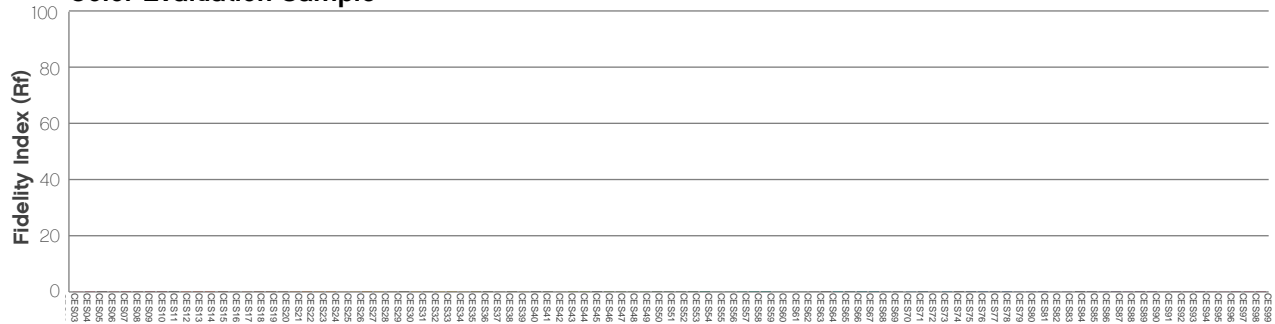
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Green Only

## Report Summary

### Measurements

Fixture Output: 3783 lm  
Fixture Peak: 19210 cd  
Fixture Efficacy: 53 lm/W  
Intensity @ 5m: 766 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCI: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 18.1°  
Field Angle (10%): 41°  
Cutoff Angle (3%): 73.5°

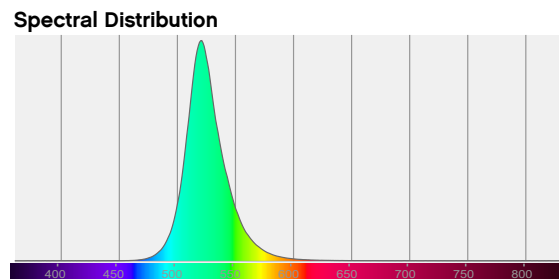
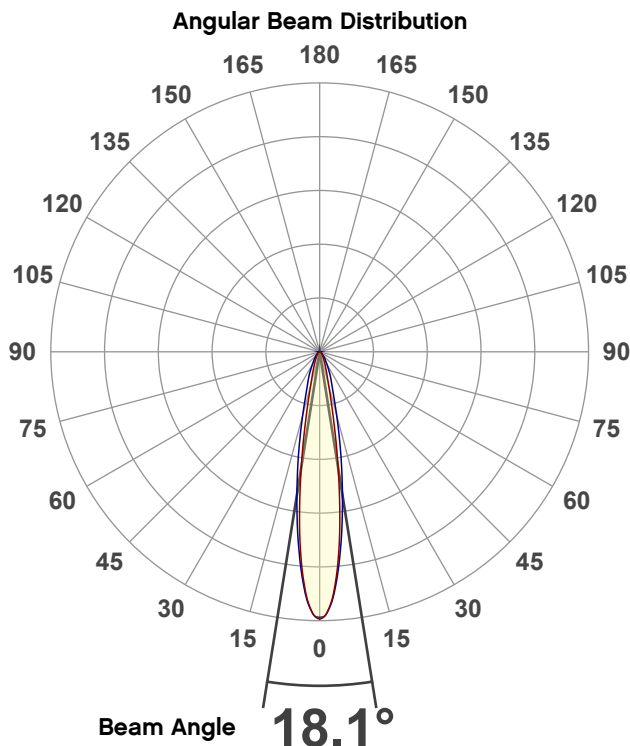


### Conditions

AC Supply: 117 V, 60 Hz  
Power: 72.37 W  
Current: 0.620 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.169

Y: 0.732



Light Quality

CRI: 0.0

Color Temperature

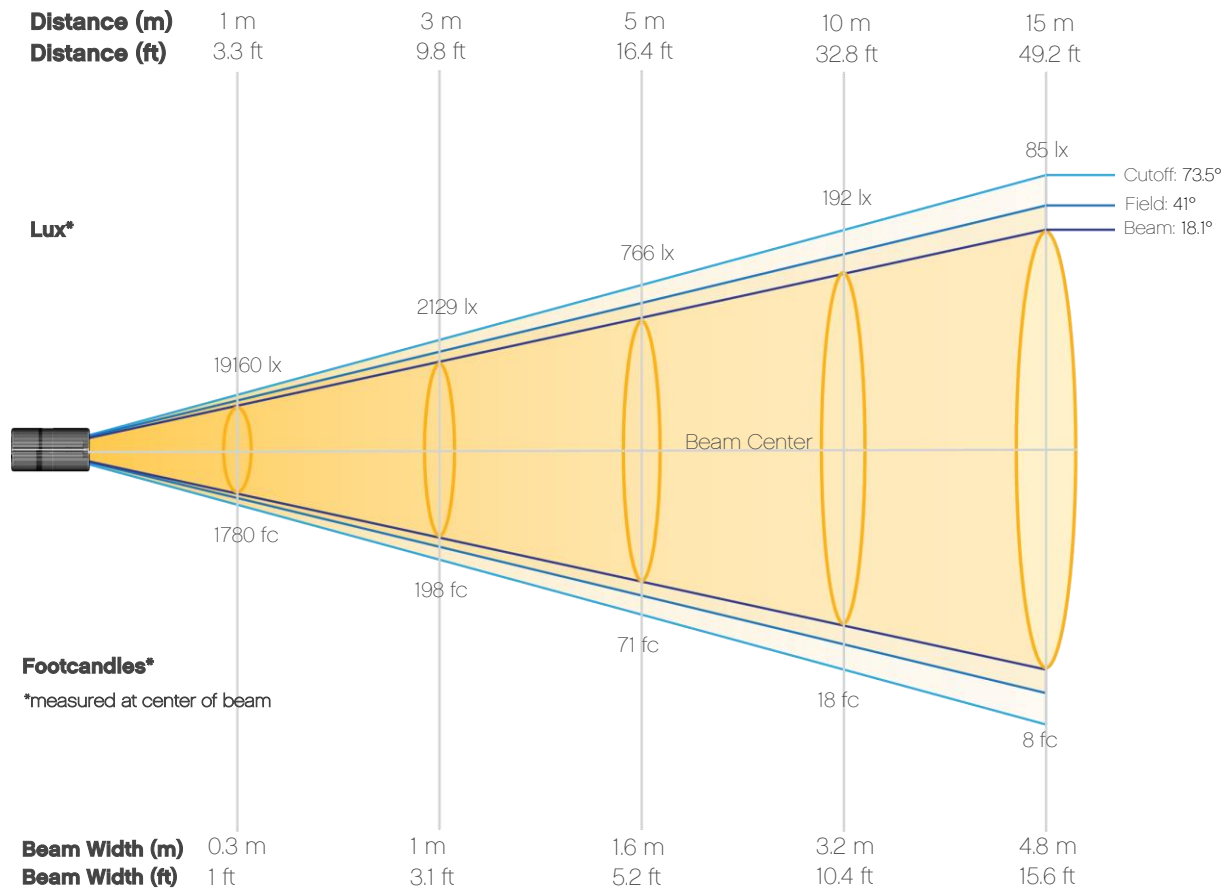
0 K



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Green Only

## Beam Details

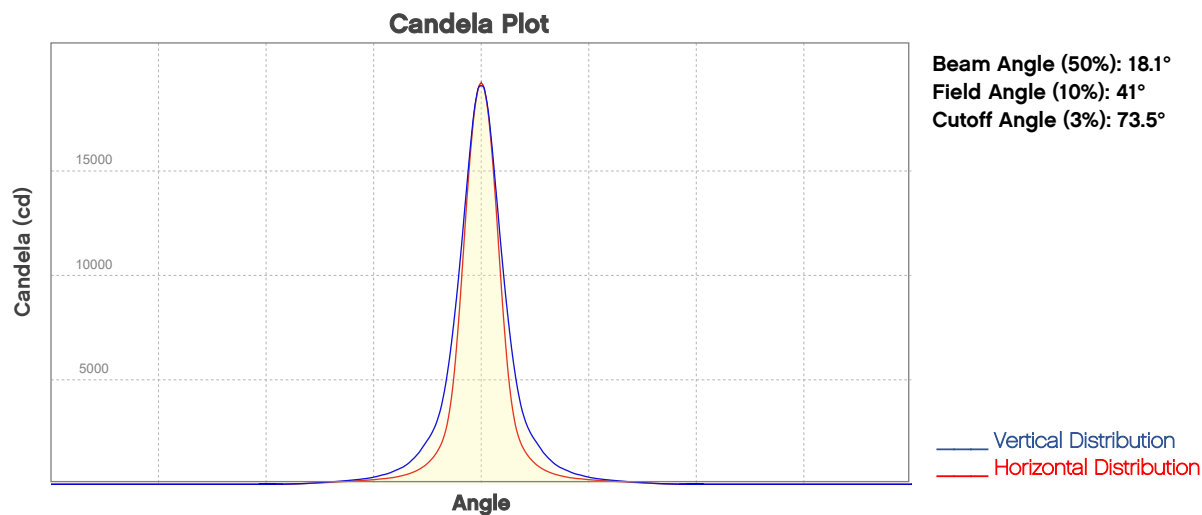


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	19160	4790	2129	1198	766	532	391	299	237	192
<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	158	133	113	98	85	75	66	59	53	48
<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	1780	445	198	111	71	49	36	28	22	18
<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	15	12	11	9	8	7	6	5	5	4

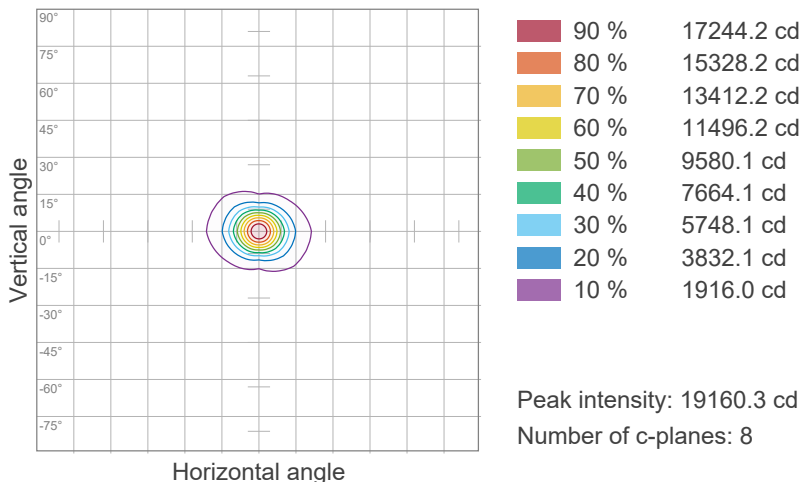
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Green Only

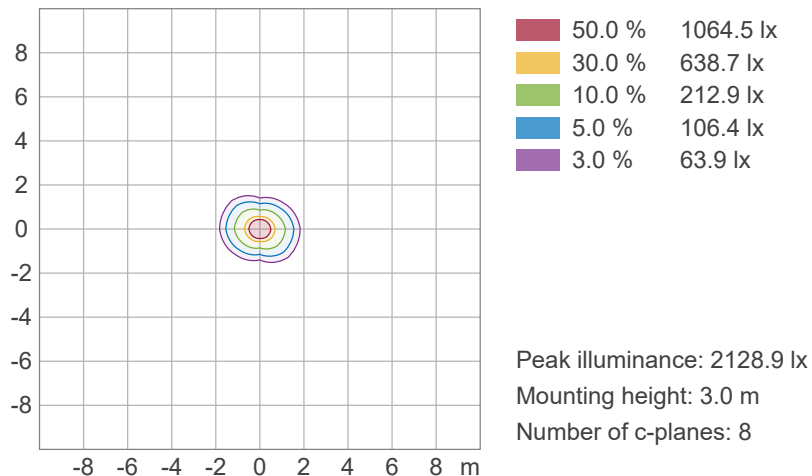


## ISO Diagrams

### ISO Candela Diagram



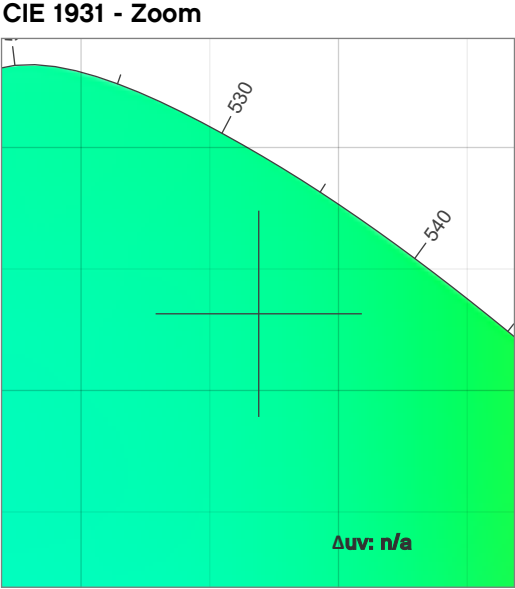
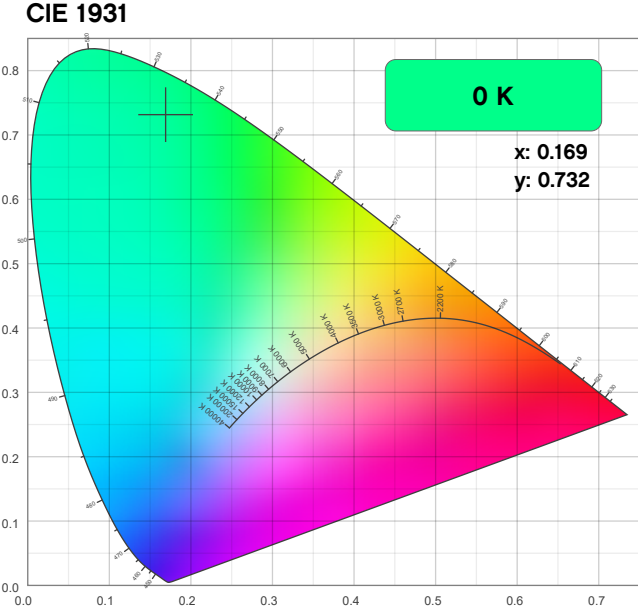
### ISO Lux Diagram



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Green Only

## Chromaticity



### CRI: 0.0 (R1-R8)

0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15		

### CQS: 0.0

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15		

### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.169	0.732

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.732	0.059

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
n/a	0.0	0.0



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Green Only

## TM-30 Details

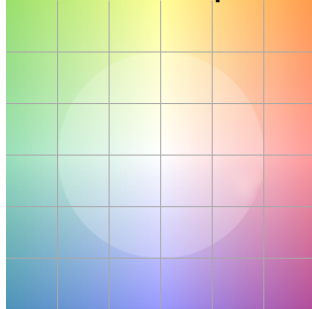
**Rf 0.0**

Fidelity Index  
(Rg)

**Rg 0.0**

Gammut Index  
(Rg)

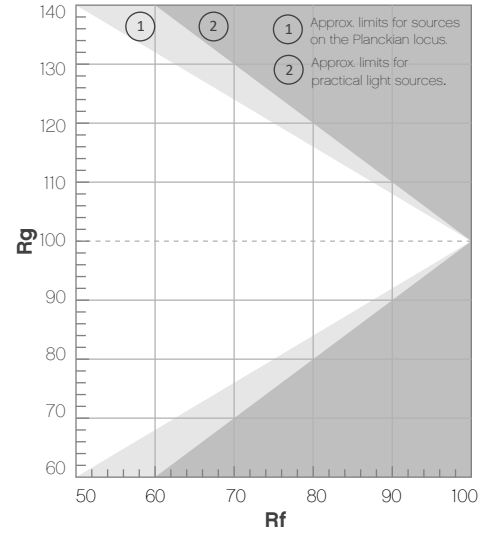
Color Vector Graphic



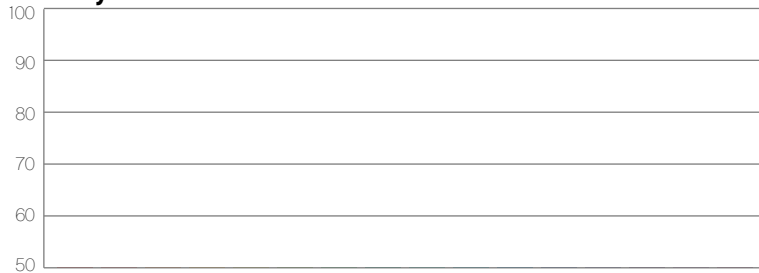
Color Distortion Graphic



Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



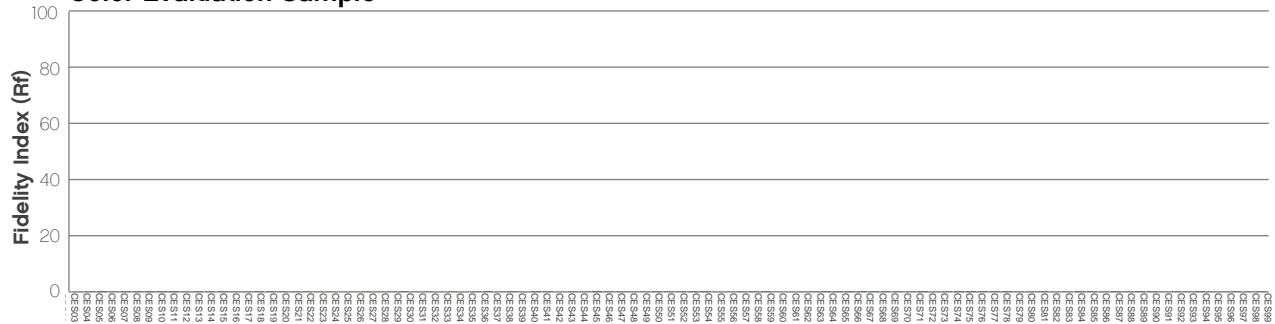
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Blue Only

## Report Summary

### Measurements

Fixture Output: 768 lm  
Fixture Peak: 4063 cd  
Fixture Efficacy: 10 lm/W  
Intensity @ 5m: 162 lux  
Color Temperature: 0 K  
CRI: 0.0      CRI R9 Value: 0.0  
CQS: 0.0  
TLCI: n/a  
TM-30 Rf: 0.0  
TM-30 Rg: 0.0  
Beam Angle (50%): 17.4°  
Field Angle (10%): 39.8°  
Cutoff Angle (3%): 72.3°

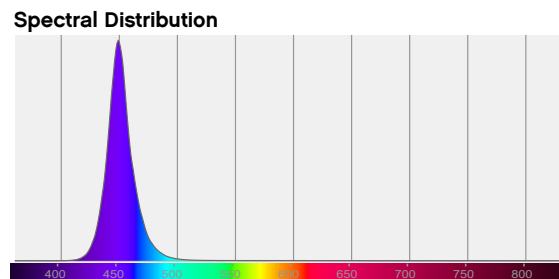
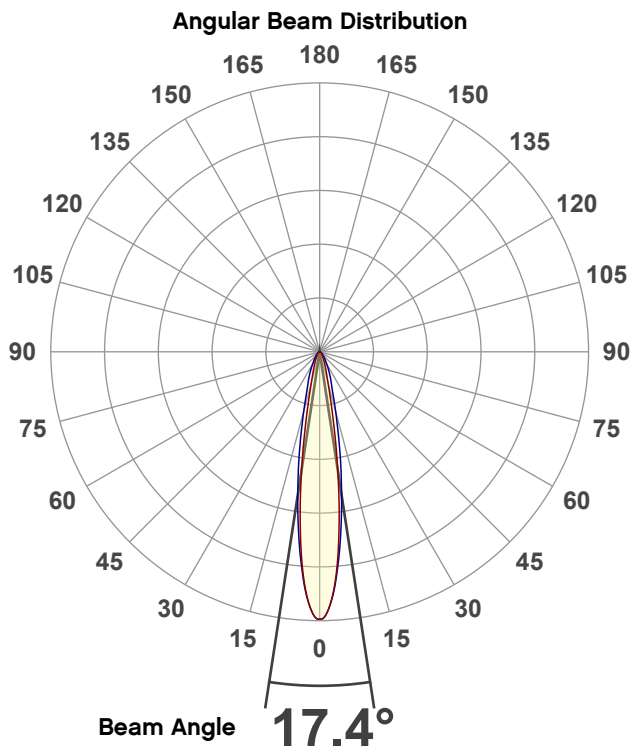


### Conditions

AC Supply: 116 V, 60 Hz  
Power: 79.89 W  
Current: 0.687 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.154

Y: 0.026

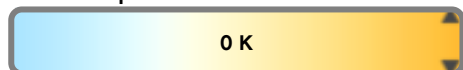


Light Quality

CRI: 0.0

Color Temperature

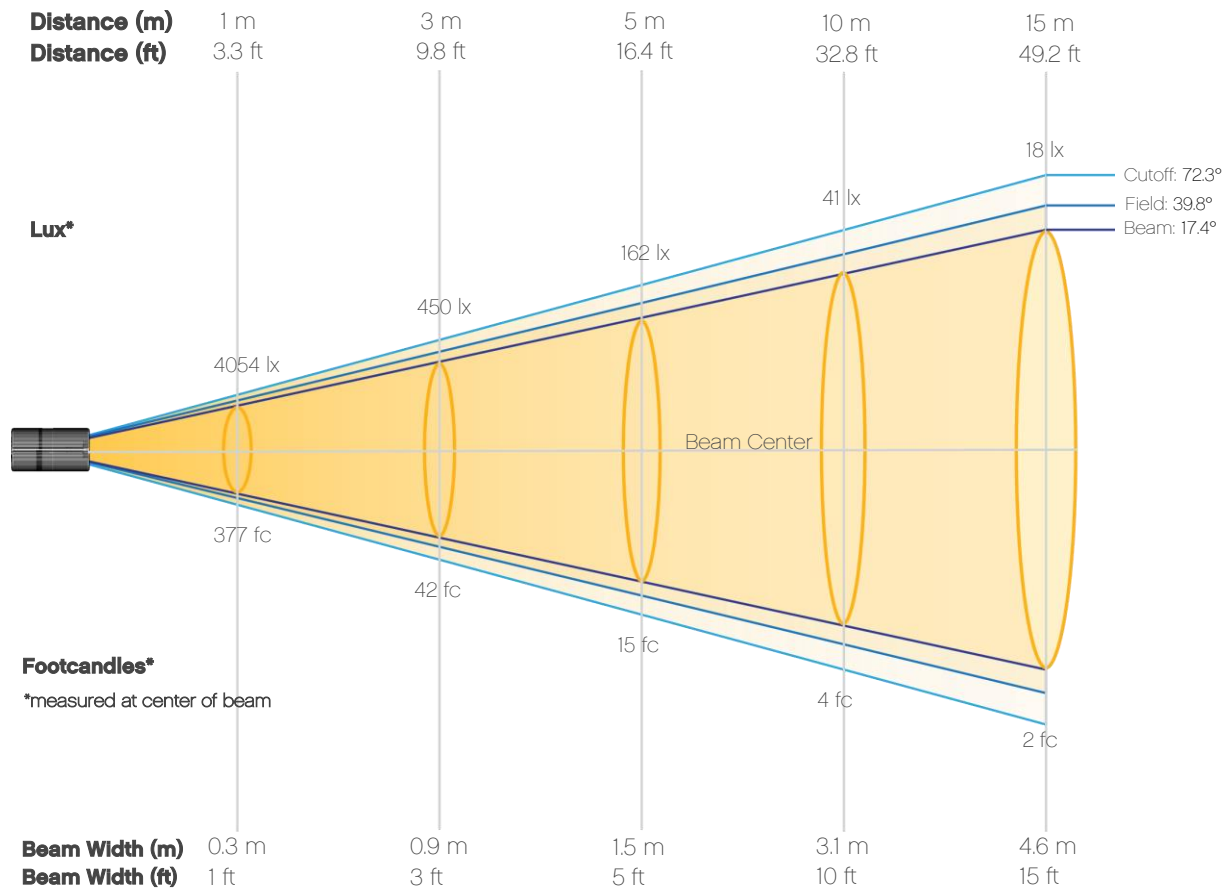
0 K



# Photometric & Chromaticity Report

## COLORado Solo Bar 1: Standard Optics - Blue Only

### Beam Details

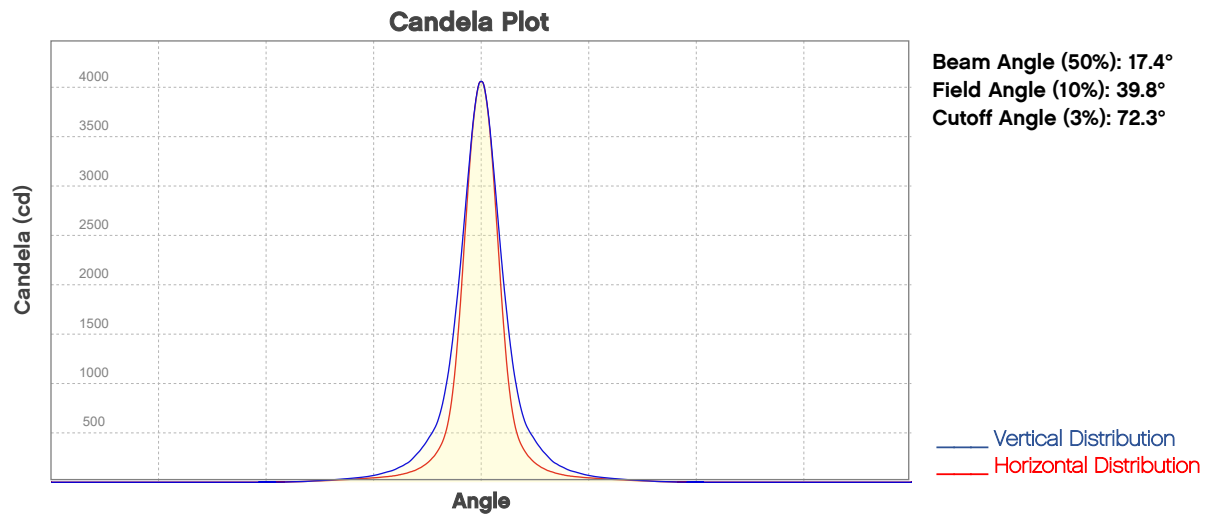


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	4054	1013	450	253	162	113	83	63	50	41
<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	34	28	24	21	18	16	14	13	11	10
<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	377	94	42	24	15	10	8	6	5	4
<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	3	3	2	2	2	1	1	1	1	1

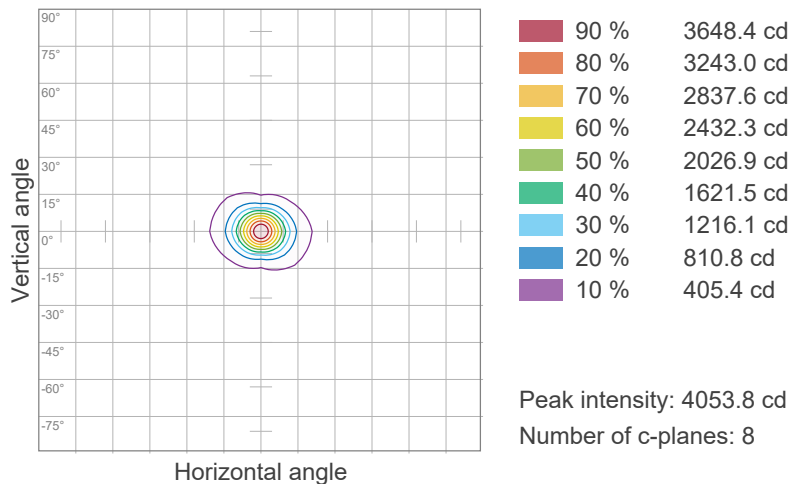
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Blue Only

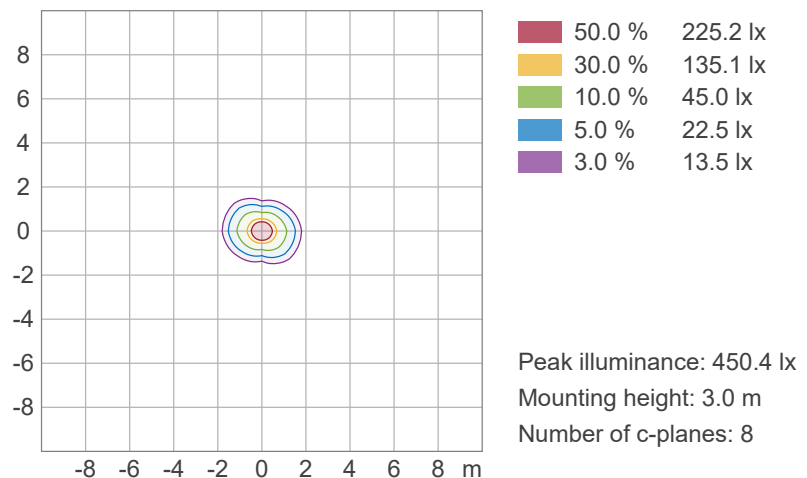


## ISO Diagrams

### ISO Candela Diagram



### ISO Lux Diagram







# Photometric & Chromaticity Report

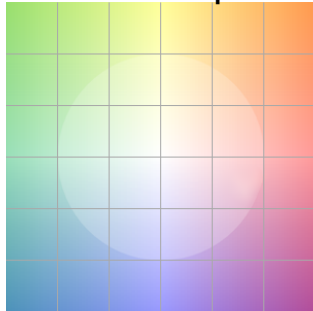
COLORado Solo Bar 1: Standard Optics - Blue Only

## TM-30 Details

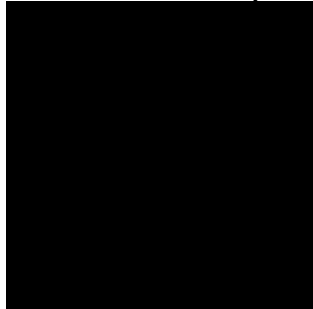
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg 0.0**  
Gammut Index  
(Rg)

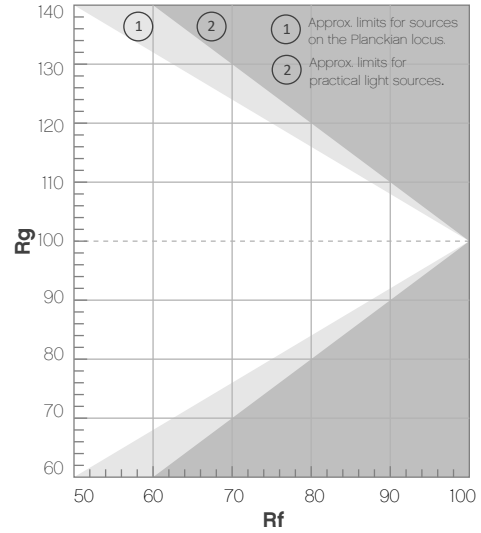
Color Vector Graphic



Color Distortion Graphic



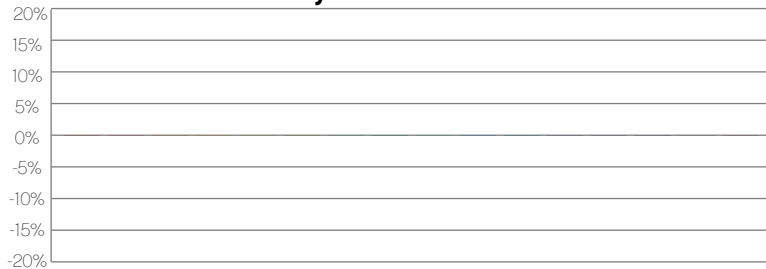
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



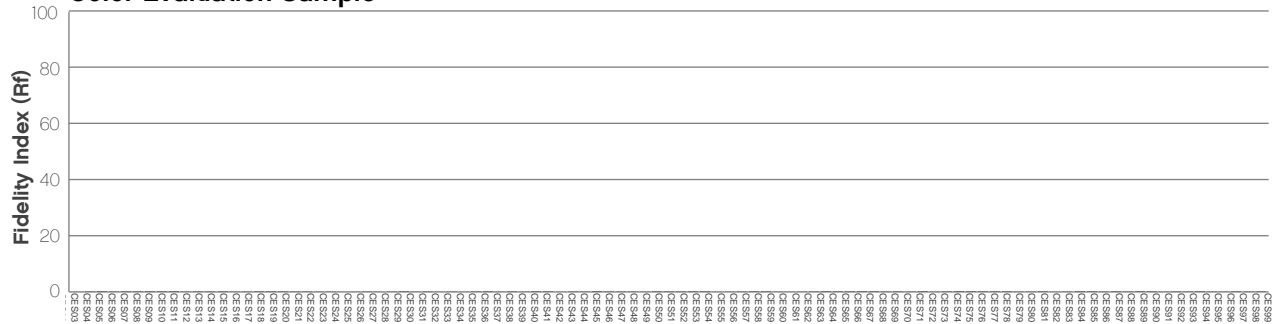
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Warm White Only

## Report Summary

### Measurements

Fixture Output: 2843 lm  
Fixture Peak: 14411 cd  
Fixture Efficacy: 50 lm/W  
Intensity @ 5m: 575 lux  
Color Temperature: 3073 K  
CRI: 82.6      CRI R9 Value: 7.7  
CQS: 80.7  
TLCI: 64  
TM-30 Rf: 83.1  
TM-30 Rg: 99.0  
Beam Angle (50%): 18.1°  
Field Angle (10%): 41.2°  
Cutoff Angle (3%): 73.5°

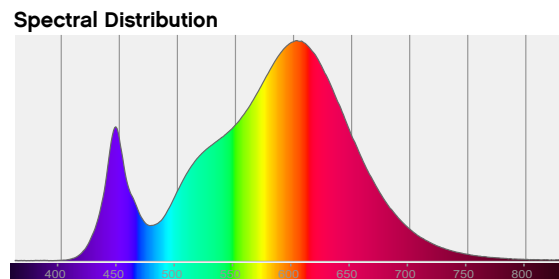
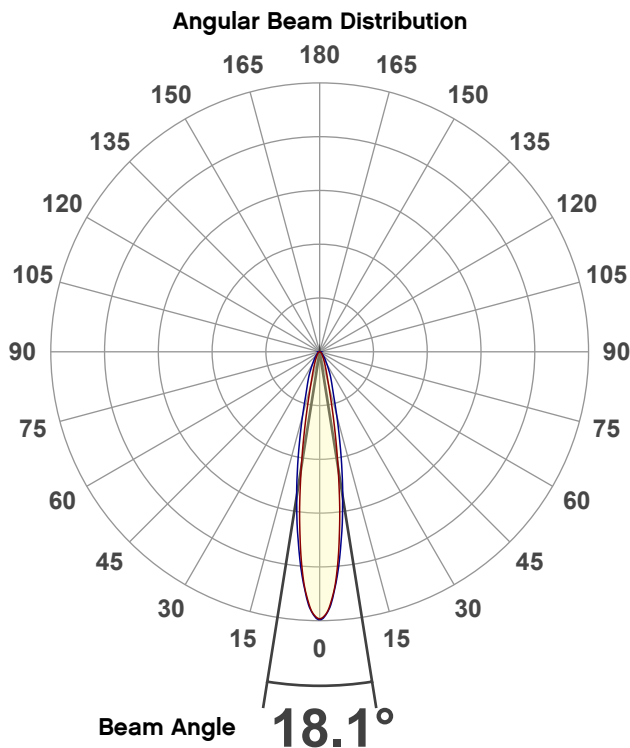


### Conditions

AC Supply: 117 V, 60 Hz  
Power: 58.13 W  
Current: 0.498 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.429

Y: 0.395



Light Quality

CRI: 82.6

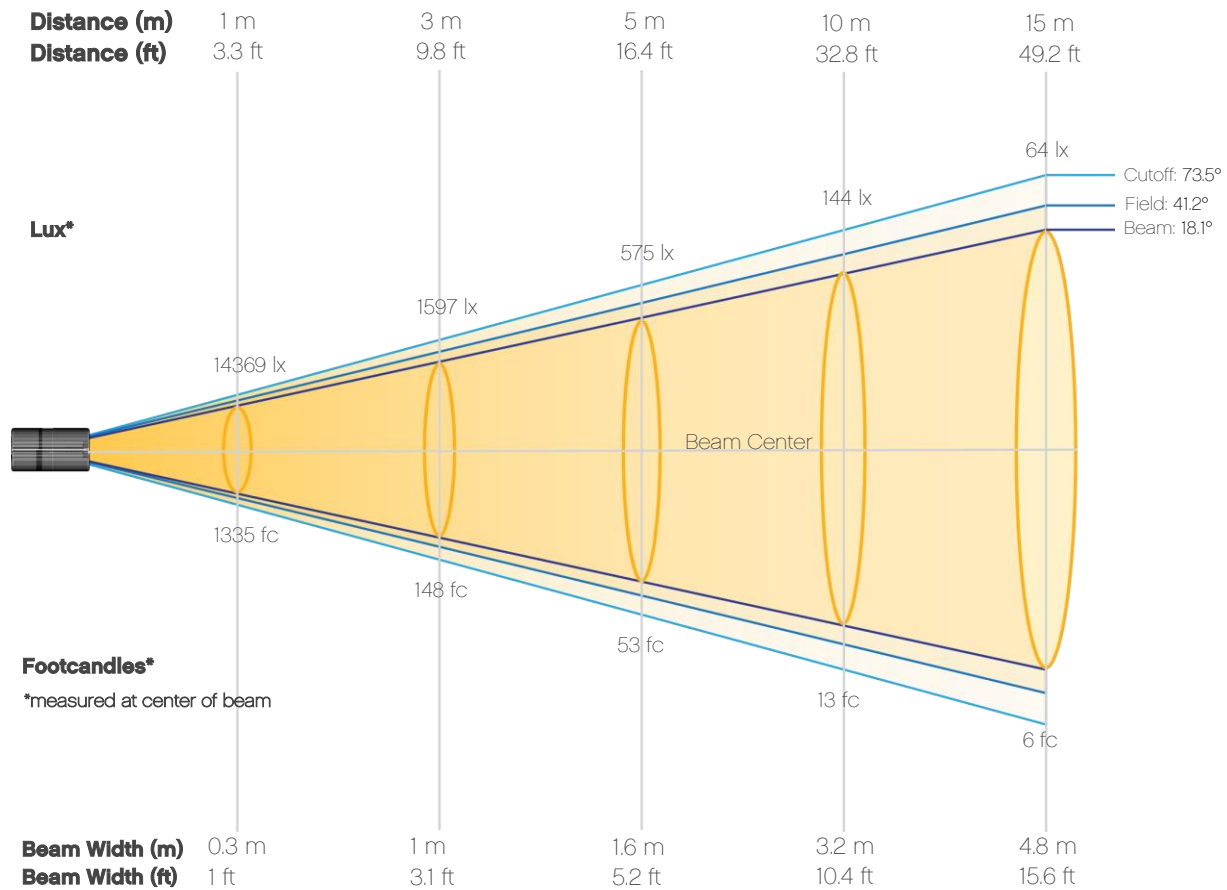
Color Temperature

3073 K

# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Warm White Only

## Beam Details

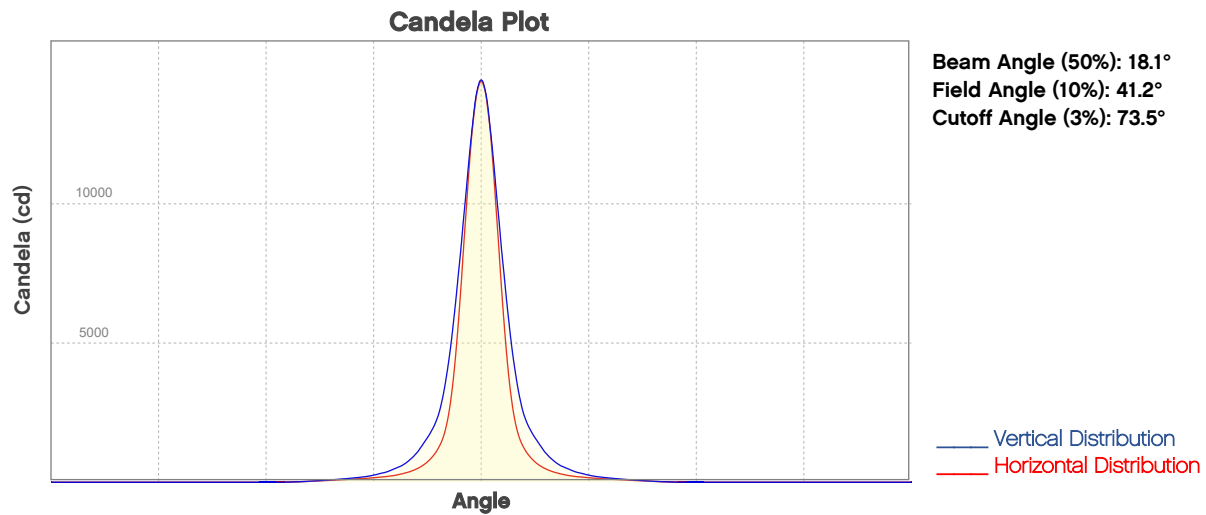


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	14369	3592	1597	898	575	399	293	225	177	144
<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	119	100	85	73	64	56	50	44	40	36
<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	1335	334	148	83	53	37	27	21	16	13
<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	11	9	8	7	6	5	5	4	4	3

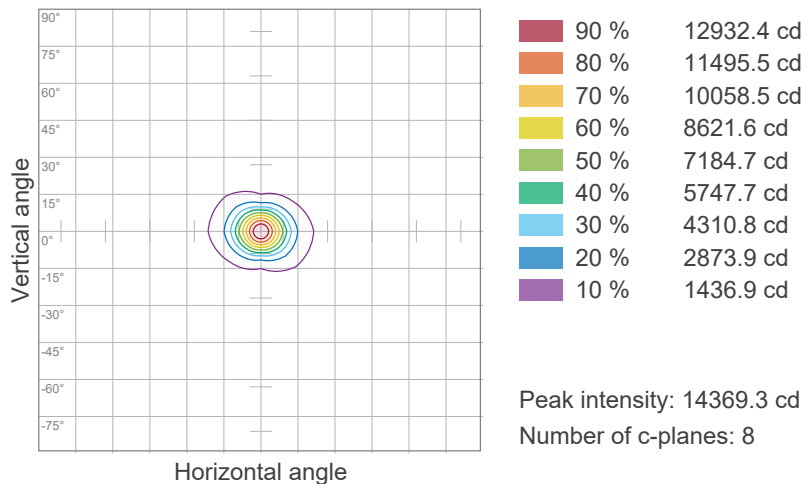
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Warm White Only

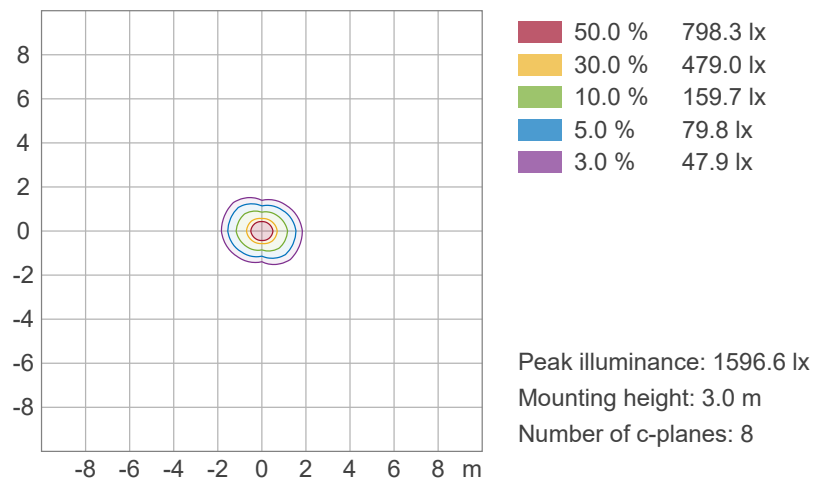


## ISO Diagrams

### ISO Candela Diagram



### ISO Lux Diagram

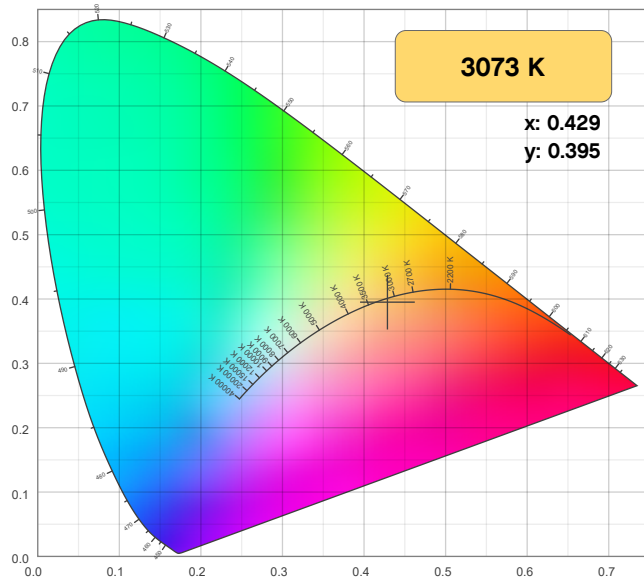


# Photometric & Chromaticity Report

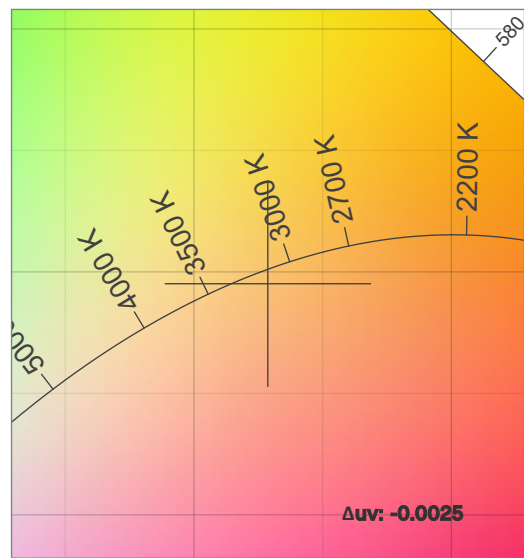
COLORado Solo Bar 1: Standard Optics - Warm White Only

## Chromaticity

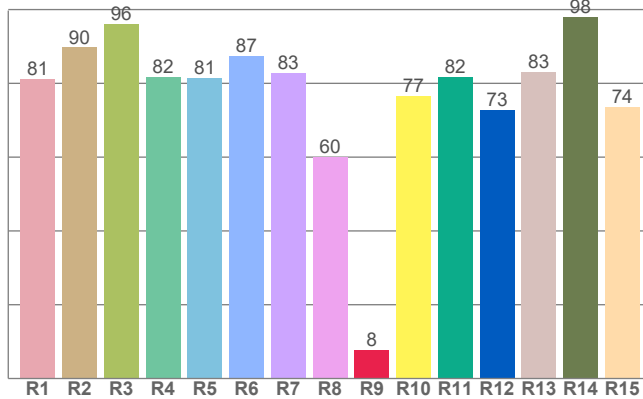
CIE 1931



CIE 1931 - Zoom



CRI: 82.6 (R1-R8)

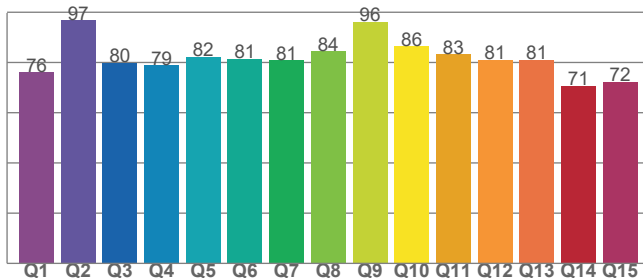


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3073 K	0.429	0.395

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
-0.0025	0.395	0.249

CQS: 80.7



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
82.6	7.7	80.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
64	83.1	99.0

# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Warm White Only

## TM-30 Details

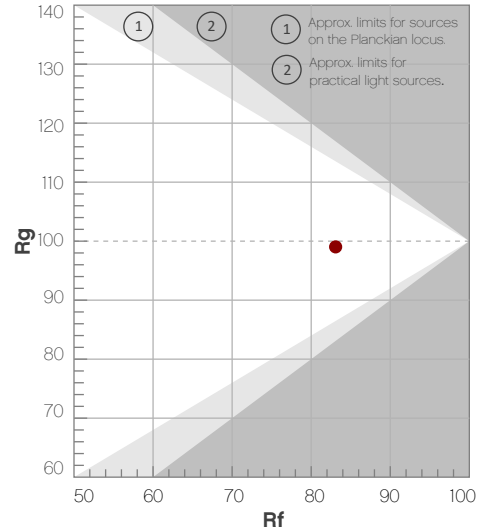
**Rf 83.1**

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

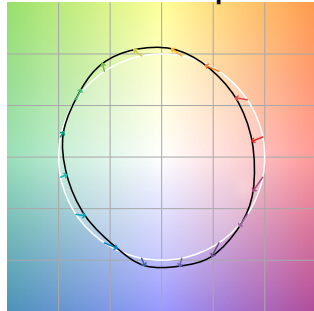
**Rg 99.0**

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

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-2%
2	80	-8%	8%
3	74	-2%	14%
4	82	5%	11%
5	89	7%	6%
6	88	7%	-3%
7	82	1%	-11%
8	91	-2%	-5%
9	89	-6%	-1%
10	84	-7%	6%
11	80	-2%	13%
12	86	6%	5%
13	88	7%	-4%
14	82	7%	-13%
15	79	0%	-14%
16	80	-7%	-15%



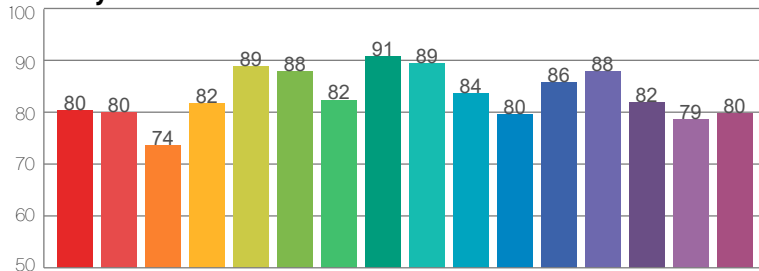
Color Vector Graphic



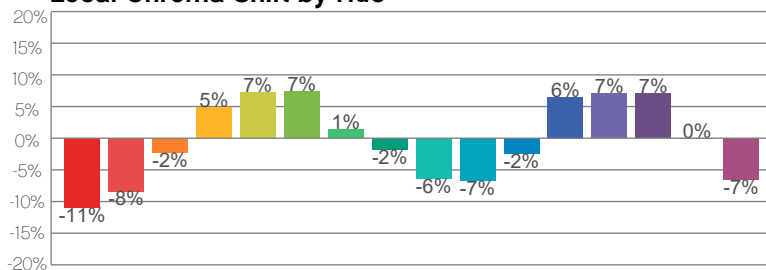
Color Distortion Graphic



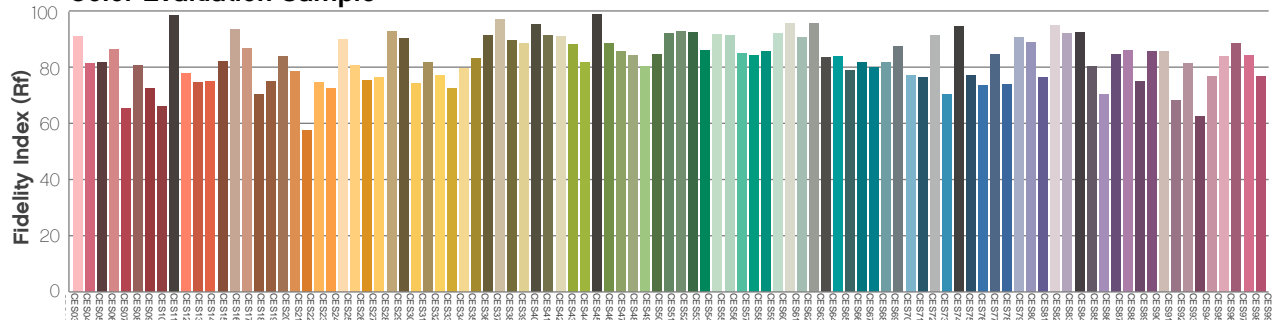
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Lime Only

## Report Summary

### Measurements

Fixture Output: 4378 lm  
Fixture Peak: 22059 cd  
Fixture Efficacy: 68 lm/W  
Intensity @ 5m: 881 lux  
Color Temperature: 4284 K  
CRI: 56.5      CRI R9 Value: -109.7  
CQS: 45.7  
TLCI: 39  
TM-30 Rf: 0.0  
TM-30 Rg: n/a  
Beam Angle (50%): 18.2°  
Field Angle (10%): 41.1°  
Cutoff Angle (3%): 73.6°

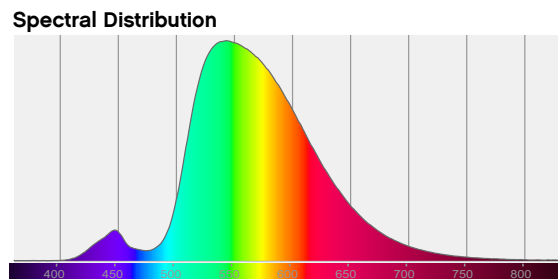
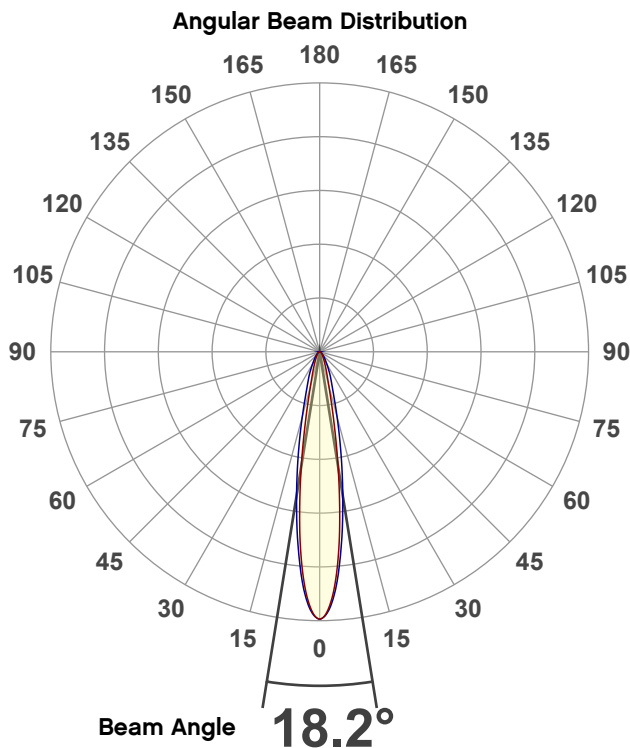


### Conditions

AC Supply: 117 V, 60.1 Hz  
Power: 64.55 W  
Current: 0.553 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

## Overall Measurement



**Tested Color** (CIE 1931):  
X: 0.403  
Y: 0.524



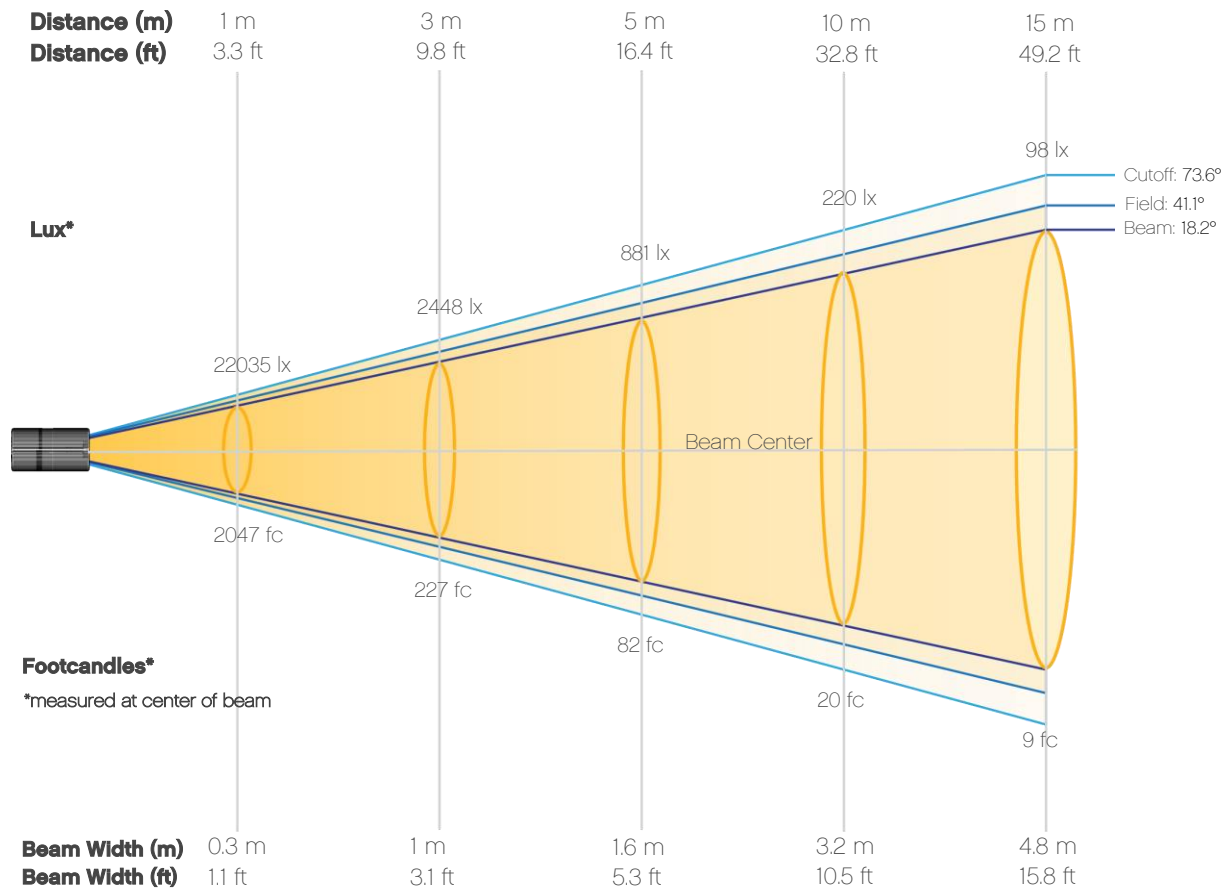
**Light Quality**  
CRI: 56.5

**Color Temperature**  
4284 K

# Photometric & Chromaticity Report

## COLORado Solo Bar 1: Standard Optics - Lime Only

### Beam Details



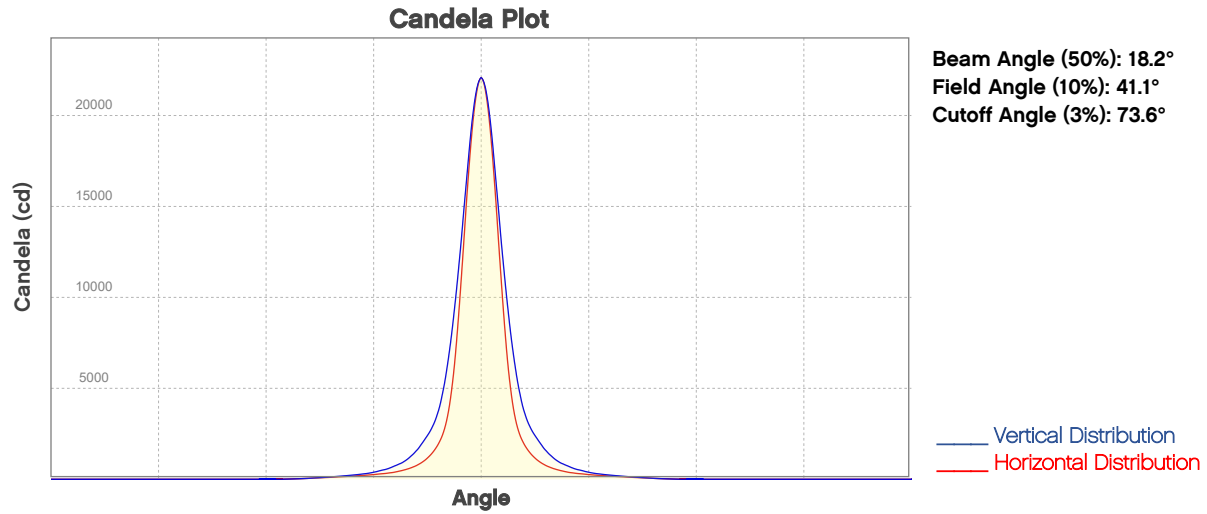
### Beam Intensities from 1-20m (3.3-65.6ft)

<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	22035	5509	2448	1377	881	612	450	344	272	220
<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	182	153	130	112	98	86	76	68	61	55
<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	2047	512	227	128	82	57	42	32	25	20
<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	17	14	12	10	9	8	7	6	6	5



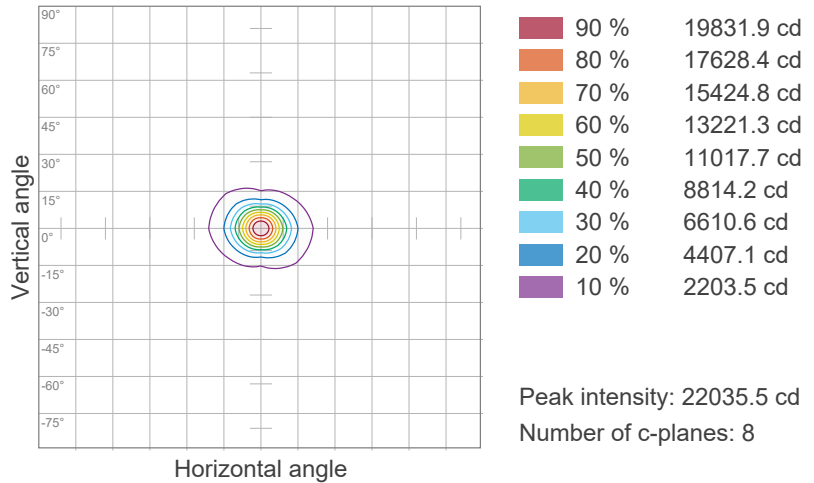
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Lime Only

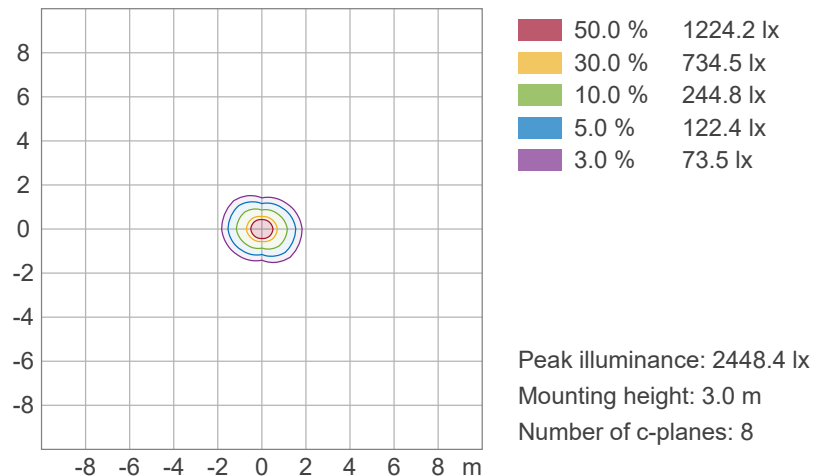


## ISO Diagrams

### ISO Candela Diagram



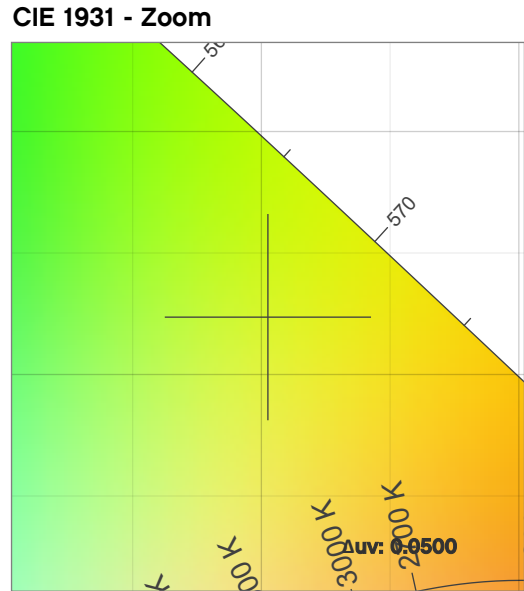
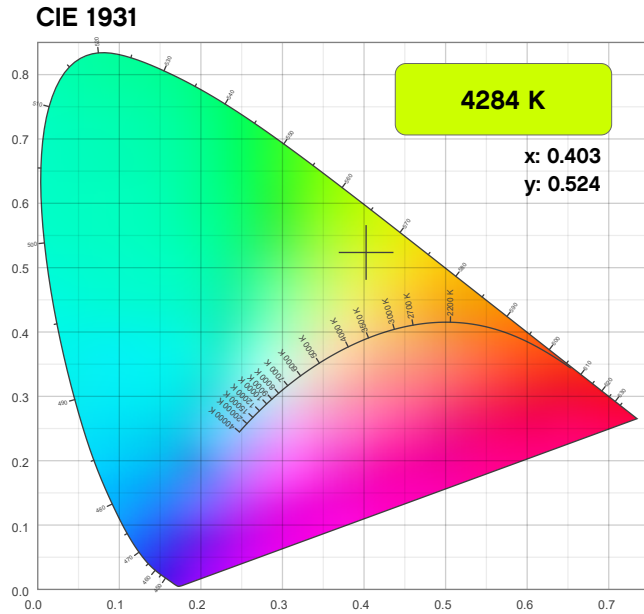
### ISO Lux Diagram



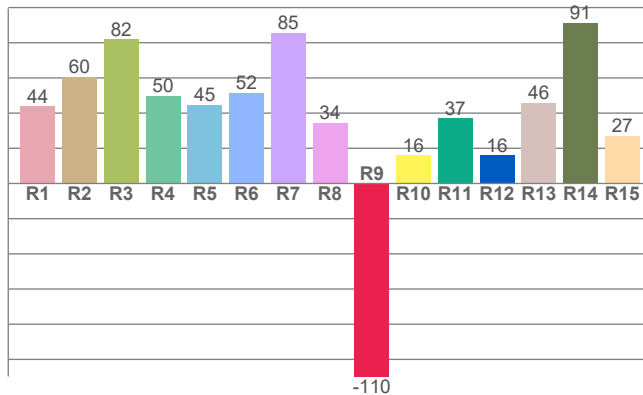
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - Lime Only

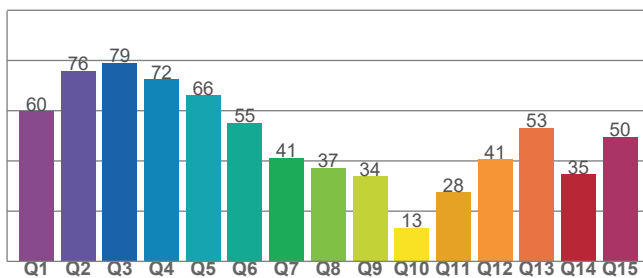
## Chromaticity



### CRI: 56.5 (R1-R8)



### CQS: 45.7



### Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4284 K	0.403	0.524

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
$\Delta uv$	y	u
0.0500	0.524	0.190

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
56.5	-109.7	45.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
39	0.0	n/a

# Photometric & Chromaticity Report

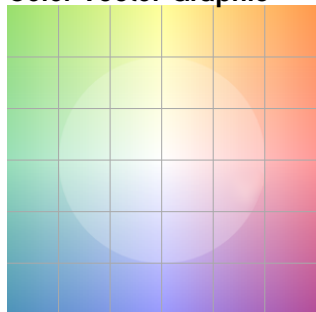
COLORado Solo Bar 1: Standard Optics - Lime Only

## TM-30 Details

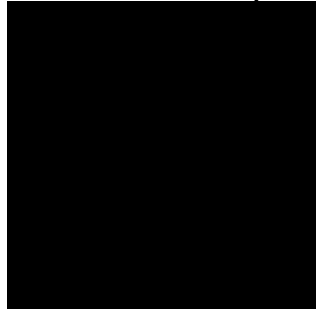
**Rf 0.0**  
Fidelity Index  
(Rg)

**Rg n/a**  
Gammut Index  
(Rg)

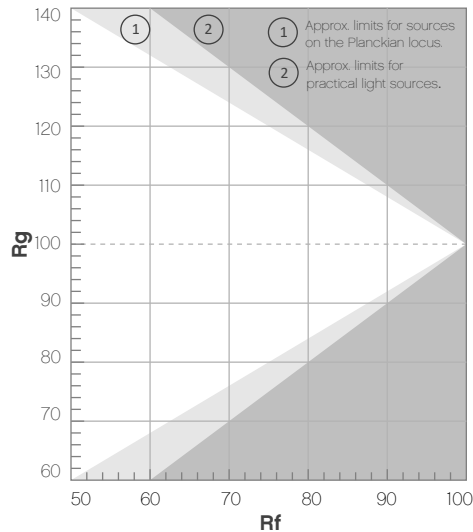
Color Vector Graphic



Color Distortion Graphic



Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



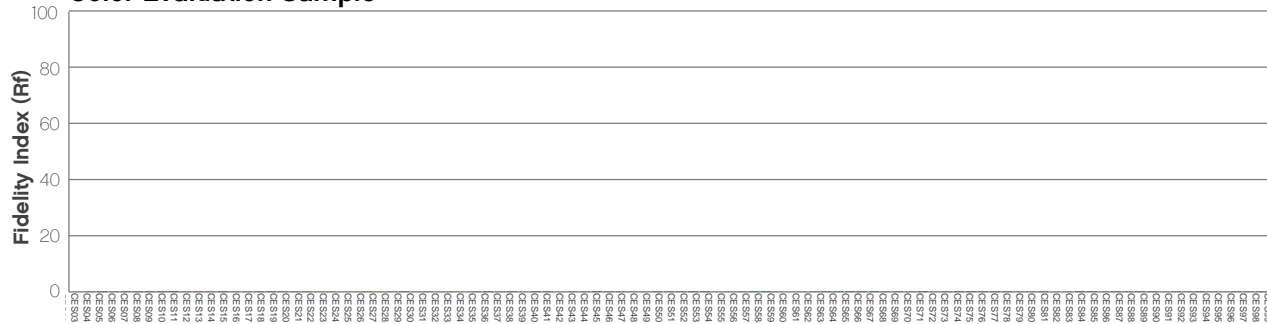
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 3200K

## Report Summary

### Measurements

Fixture Output: 3461 lm  
Fixture Peak: 17689 cd  
Fixture Efficacy: 45 lm/W  
Intensity @ 5m: 706 lux  
Color Temperature: 3197 K  
CRI: 93.5      CRI R9 Value: 97.0  
CQS: 92.3  
TLCI: 82  
TM-30 Rf: 91.7  
TM-30 Rg: 107.1  
Beam Angle (50%): 17.9°  
Field Angle (10%): 41°  
Cutoff Angle (3%): 73.3°

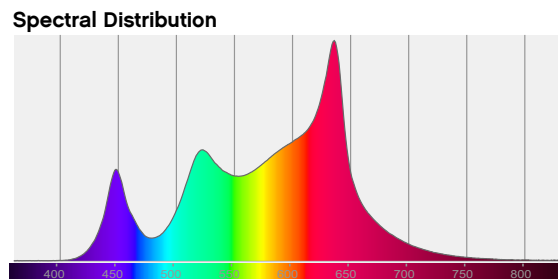
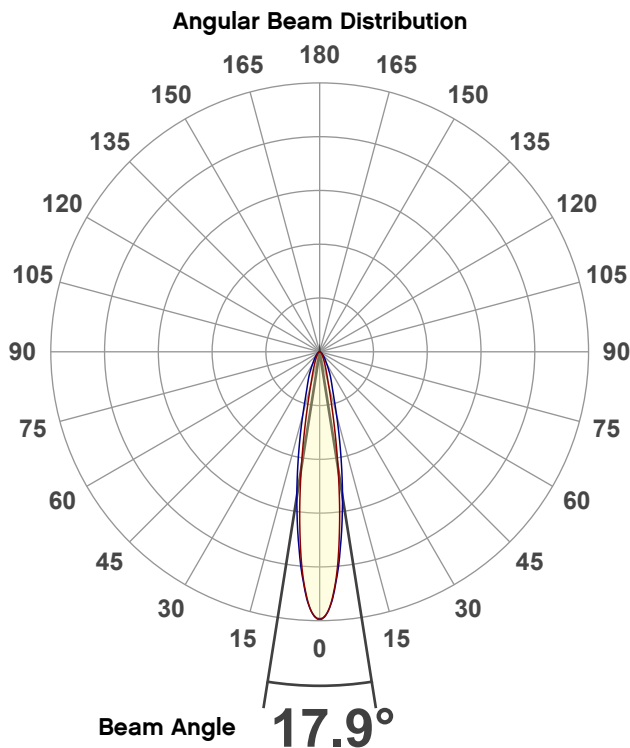


### Conditions

AC Supply: 116 V, 60 Hz  
Power: 76.49 W  
Current: 0.657 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

## Overall Measurement



Tested Color (CIE 1931):

X: 0.422

Y: 0.395



Light Quality

CRI: 93.5

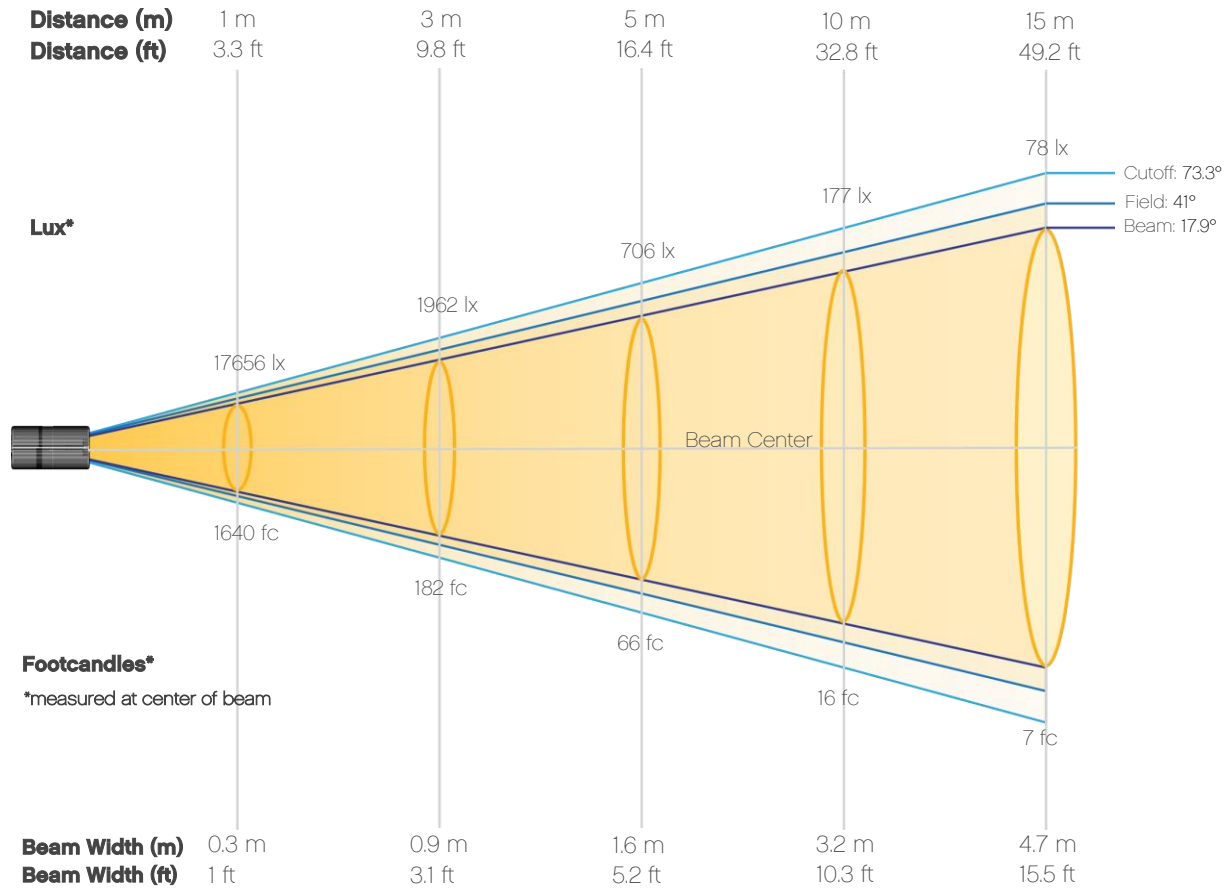
Color Temperature

3197 K

# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 3200K

## Beam Details

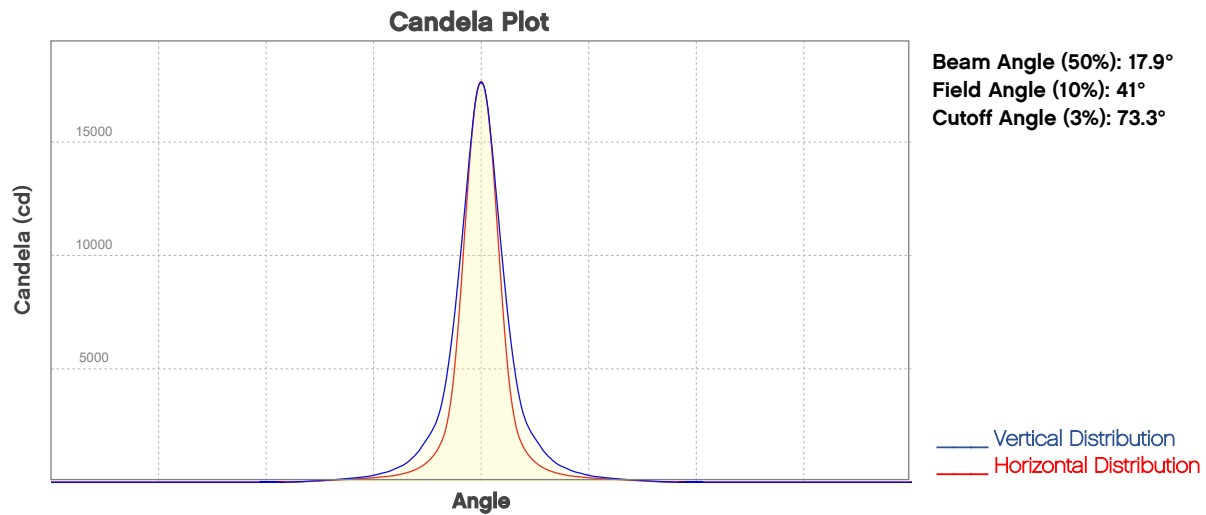


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	17656	4414	1962	1104	706	490	360	276	218	177
<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	146	123	104	90	78	69	61	54	49	44
<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	1640	410	182	103	66	46	33	26	20	16
<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	14	11	10	8	7	6	6	5	5	4

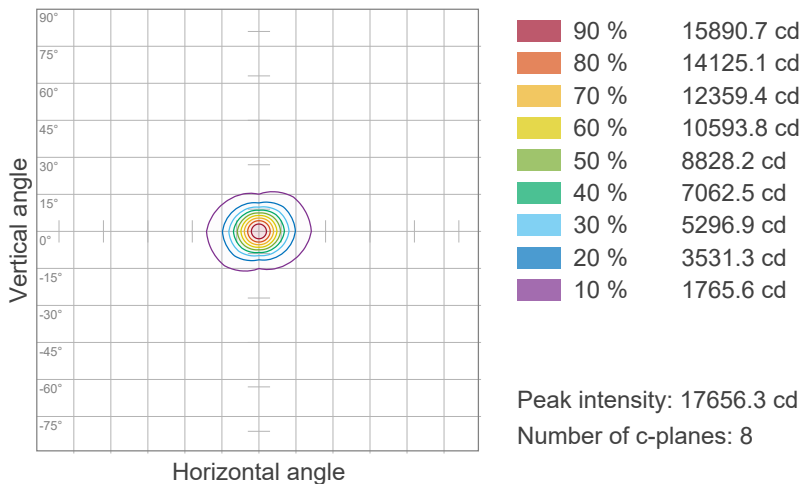
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 3200K

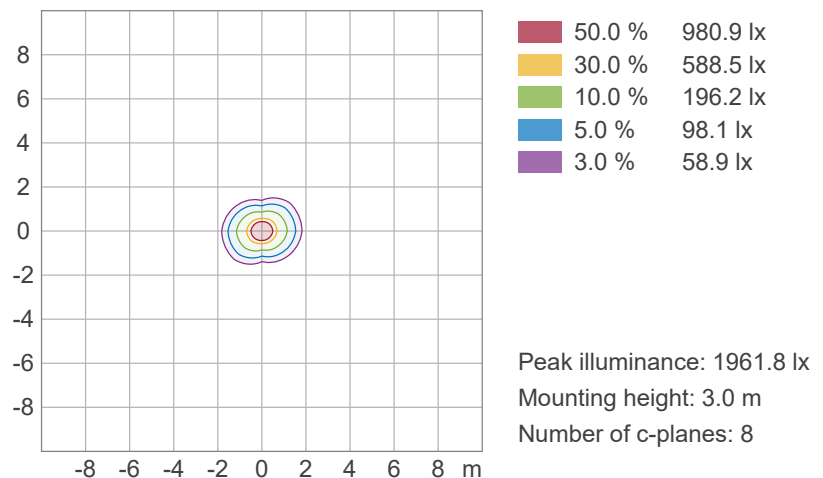


## ISO Diagrams

### ISO Candela Diagram



### ISO Lux Diagram

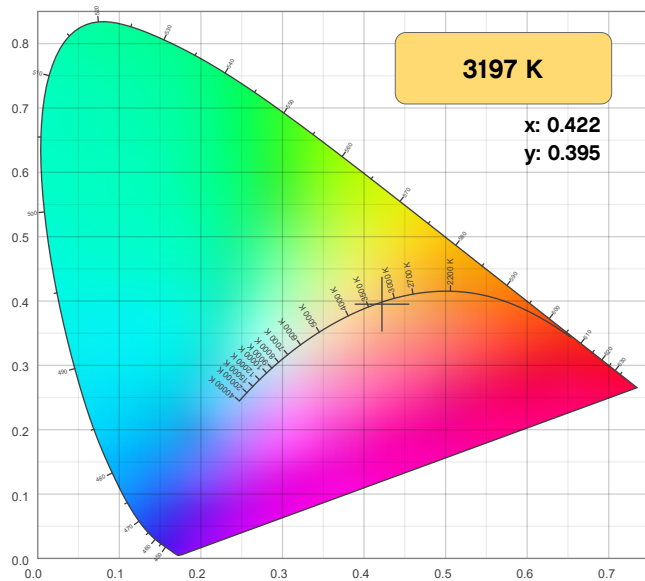


# Photometric & Chromaticity Report

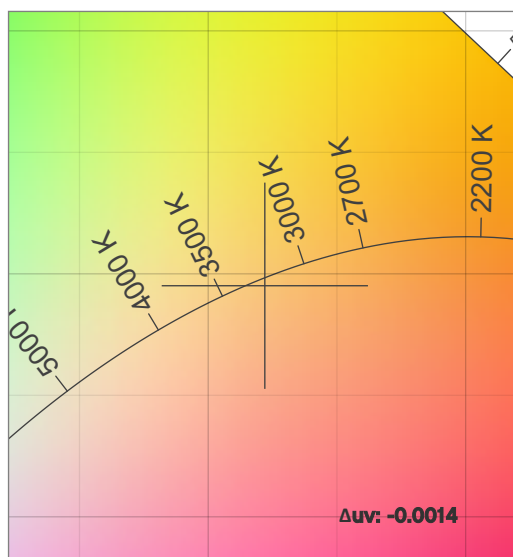
COLORado Solo Bar 1: Standard Optics - 3200K

## Chromaticity

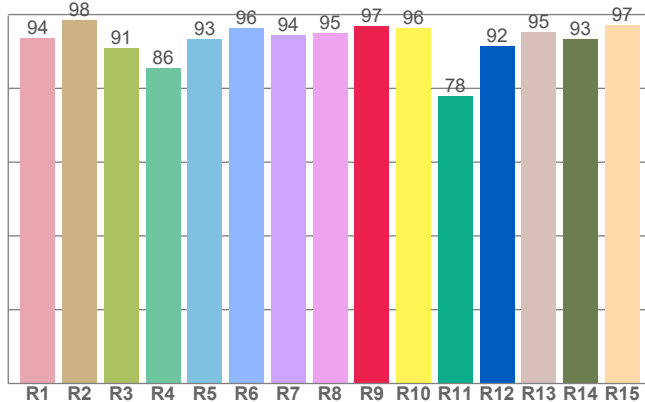
CIE 1931



CIE 1931 - Zoom



CRI: 93.5 (R1-R8)

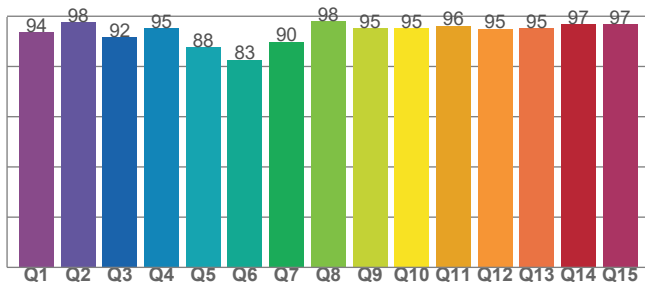


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3197 K	0.422	0.395

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0014	0.395	0.245

CQS: 92.3



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.5	97.0	92.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
82	91.7	107.1

# Photometric & Chromaticity Report

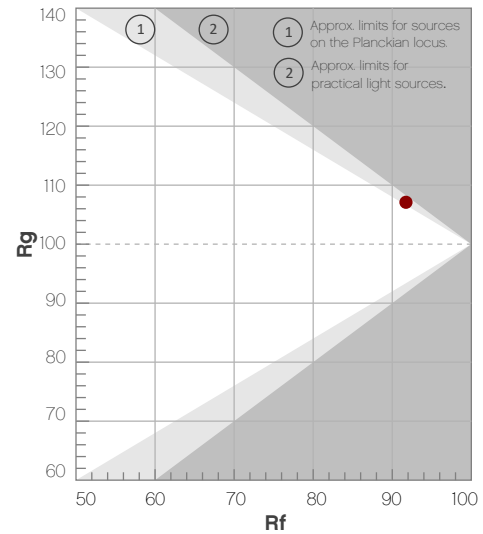
COLORado Solo Bar 1: Standard Optics - 3200K

## TM-30 Details

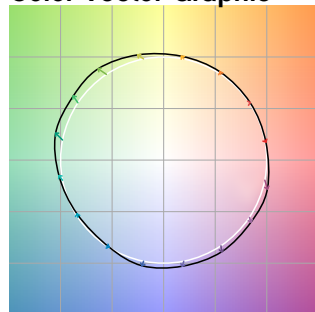
**Rf 91.7**  
Fidelity Index  
(Rg)

**Rg 107.1**  
Gammut Index  
(Rg)

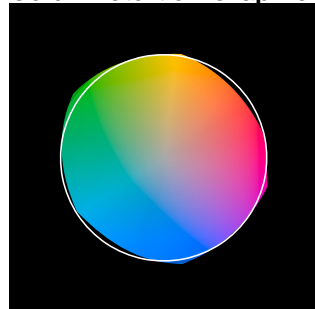
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	1%	-2%
2	95	1%	0%
3	93	2%	2%
4	94	2%	3%
5	91	5%	5%
6	86	9%	4%
7	88	7%	-3%
8	85	8%	-5%
9	92	3%	-5%
10	94	-1%	-3%
11	93	0%	3%
12	91	5%	-1%
13	92	4%	-2%
14	92	5%	-3%
15	91	4%	-3%
16	89	4%	-8%



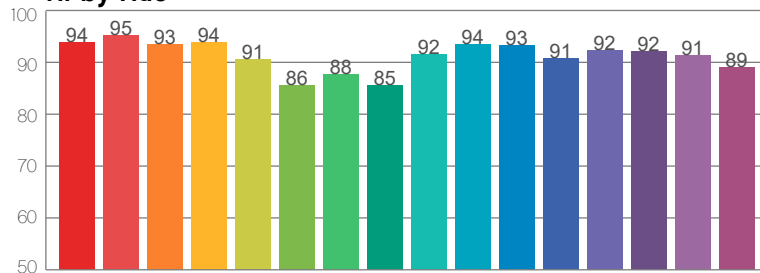
Color Vector Graphic



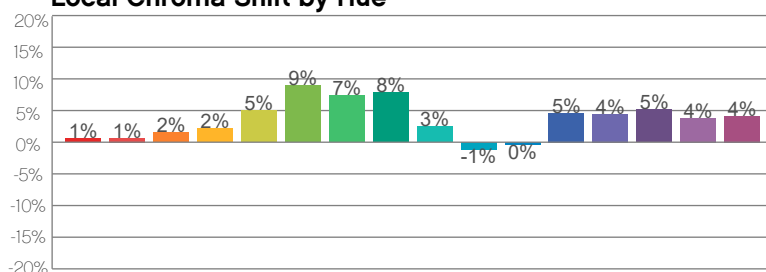
Color Distortion Graphic



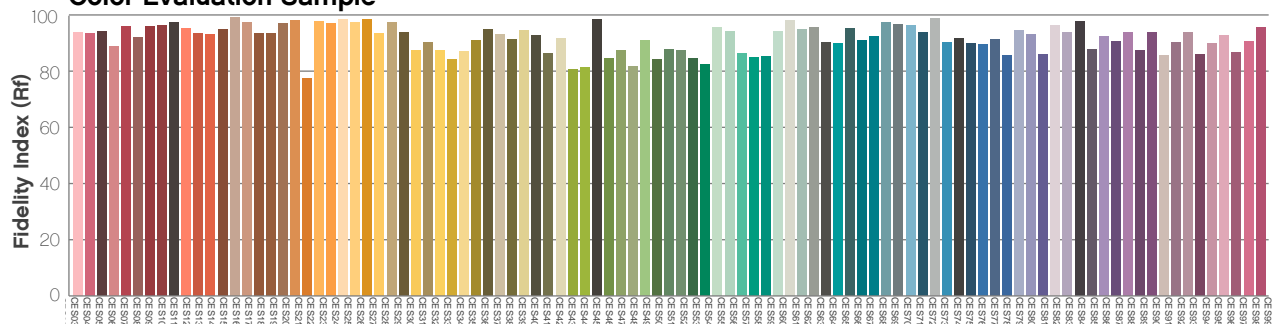
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample





# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 4000K

## Report Summary

### Measurements

Fixture Output: 3626 lm  
Fixture Peak: 18508 cd  
Fixture Efficacy: 46 lm/W  
Intensity @ 5m: 738 lux  
Color Temperature: 3993 K  
CRI: 93.1      CRI R9 Value: 97.7  
CQS: 93.4  
TLCI: 82  
TM-30 Rf: 91.3  
TM-30 Rg: 106.6  
Beam Angle (50%): 18°  
Field Angle (10%): 41°  
Cutoff Angle (3%): 73.6°

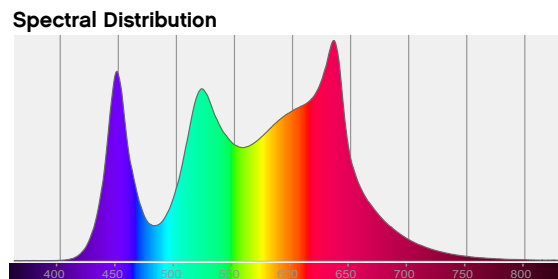
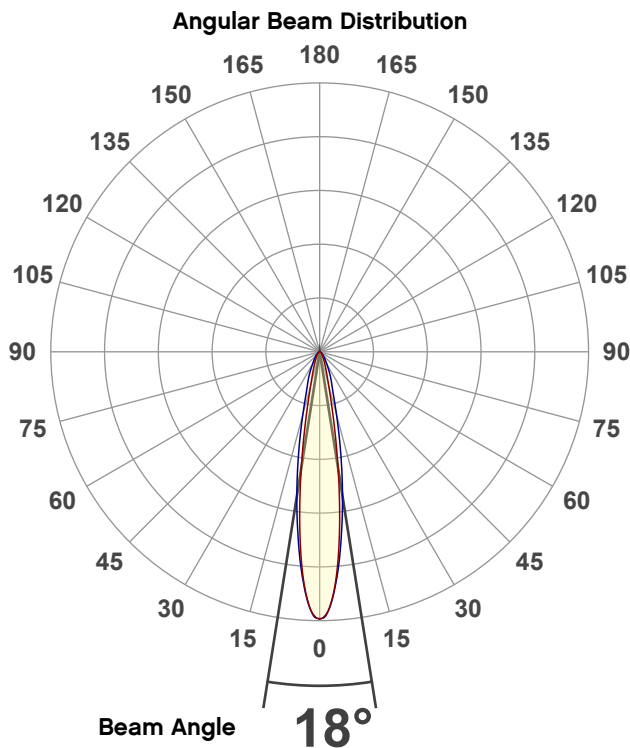


### Conditions

AC Supply: 116 V, 60.1 Hz  
Power: 80.04 W  
Current: 0.688 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

## Overall Measurement



**Tested Color** (CIE 1931):  
X: 0.380  
Y: 0.372

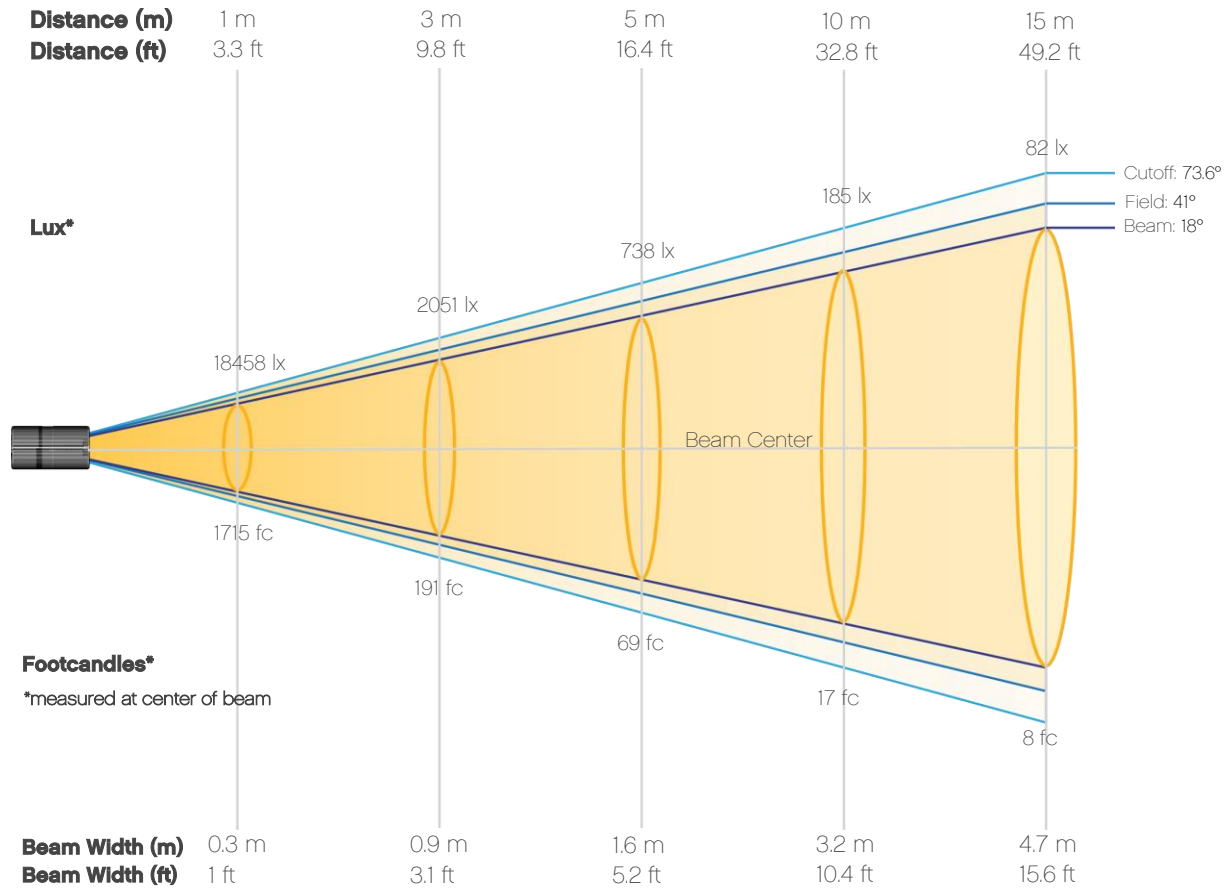
**Light Quality**  
CRI: 93.1

**Color Temperature**  
3993 K

# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 4000K

## Beam Details

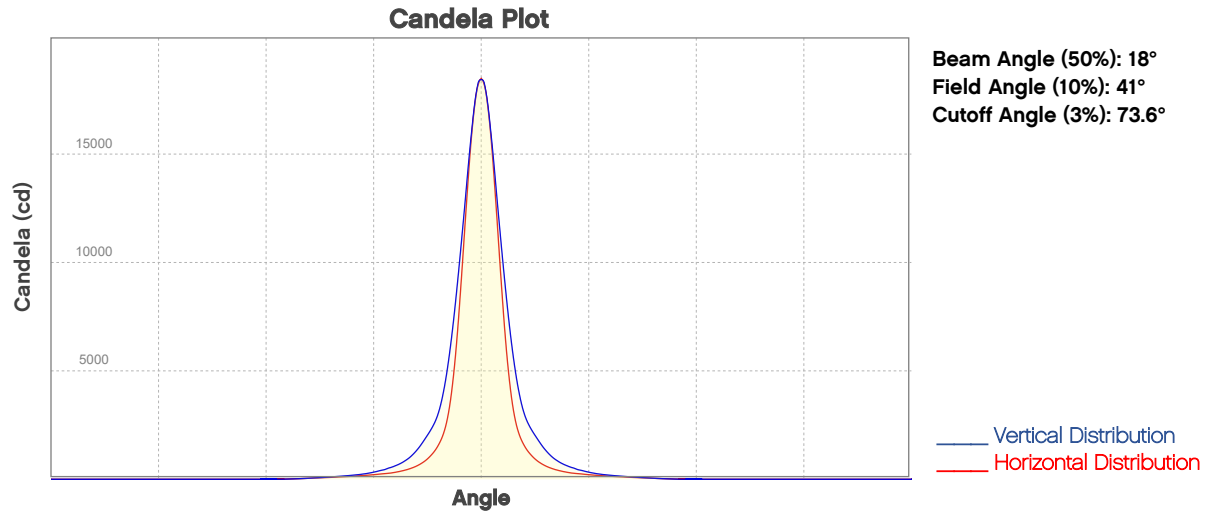


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	18458	4614	2051	1154	738	513	377	288	228	185
<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	153	128	109	94	82	72	64	57	51	46
<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	1715	429	191	107	69	48	35	27	21	17
<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	14	12	10	9	8	7	6	5	5	4

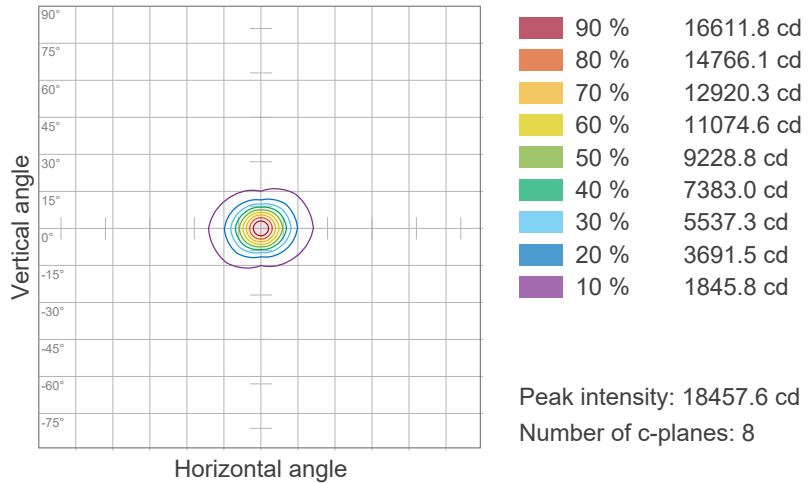
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 4000K

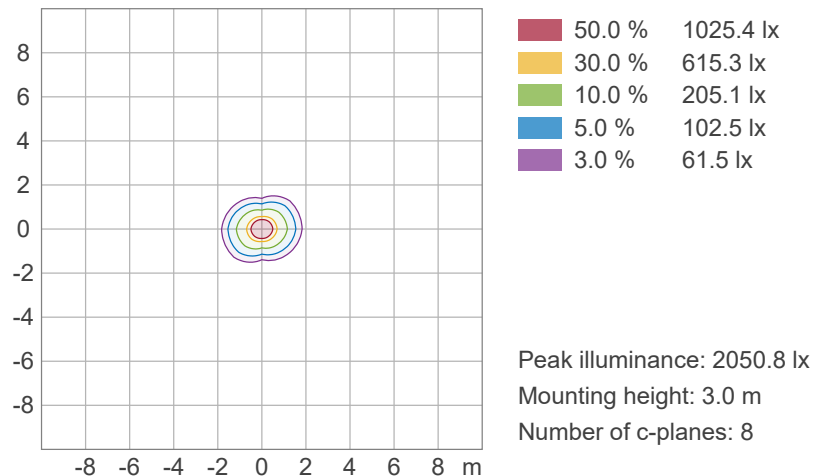


## ISO Diagrams

### ISO Candela Diagram



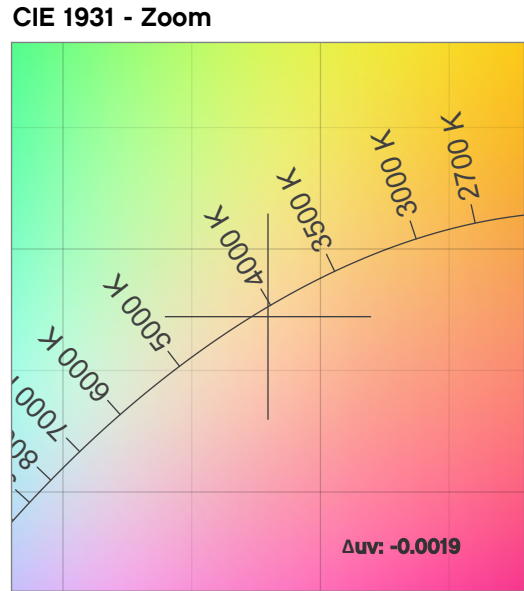
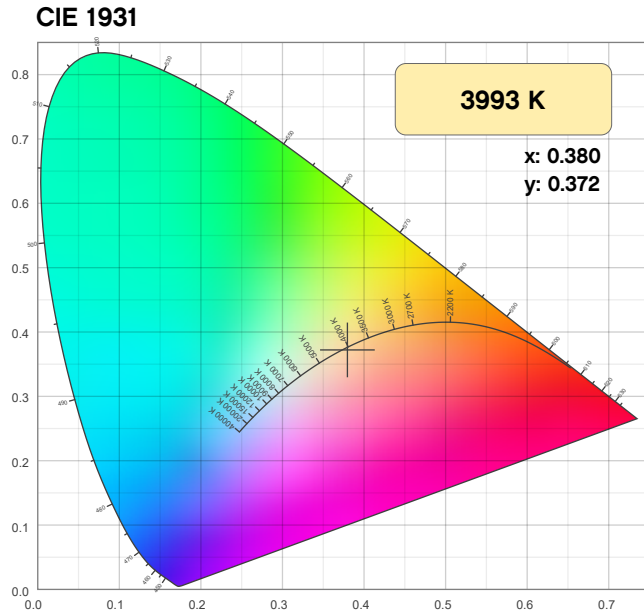
### ISO Lux Diagram



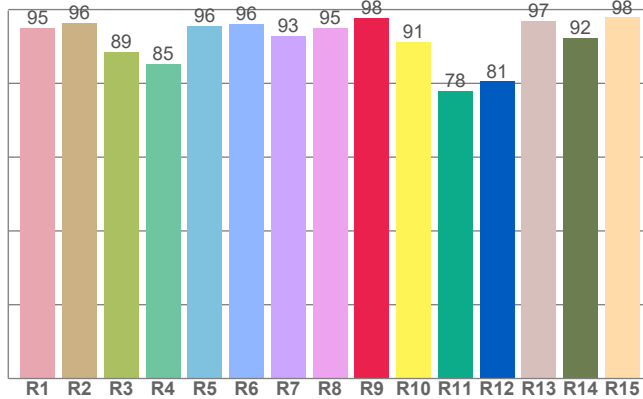
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 4000K

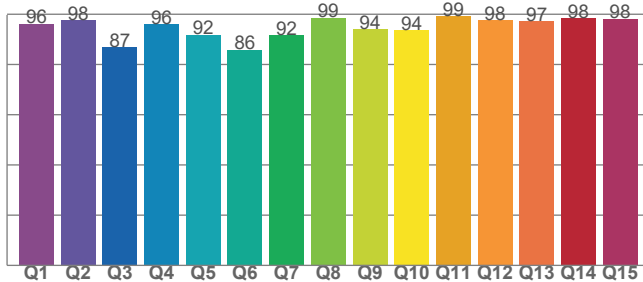
## Chromaticity



**CRI: 93.1 (R1-R8)**



**CQS: 93.4**



**Color Parameters**

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3993 K	0.380	0.372

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0019	0.372	0.226

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.1	97.7	93.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
82	91.3	106.6

# Photometric & Chromaticity Report

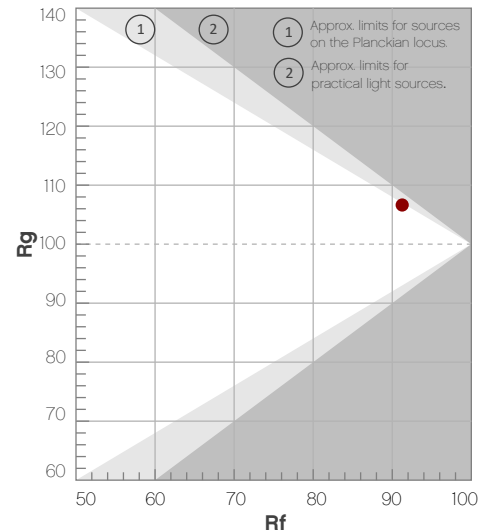
COLORado Solo Bar 1: Standard Optics - 4000K

## TM-30 Details

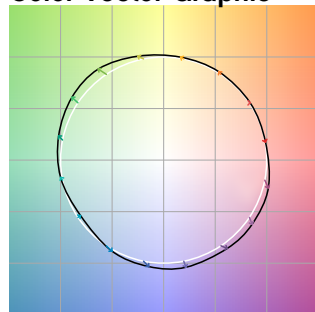
**Rf 91.3**  
Fidelity Index  
(Rg)

**Rg 106.6**  
Gammut Index  
(Rg)

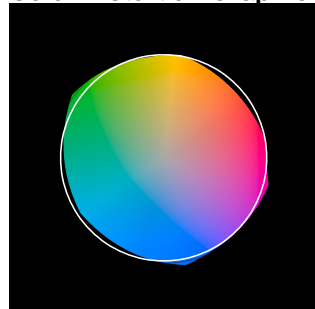
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	95	0%	-2%
2	96	1%	0%
3	93	1%	3%
4	94	1%	3%
5	89	4%	5%
6	87	9%	4%
7	88	8%	-1%
8	90	4%	-3%
9	94	1%	-3%
10	94	-3%	0%
11	88	1%	7%
12	87	4%	6%
13	91	6%	1%
14	92	5%	4%
15	90	6%	-4%
16	88	5%	-7%



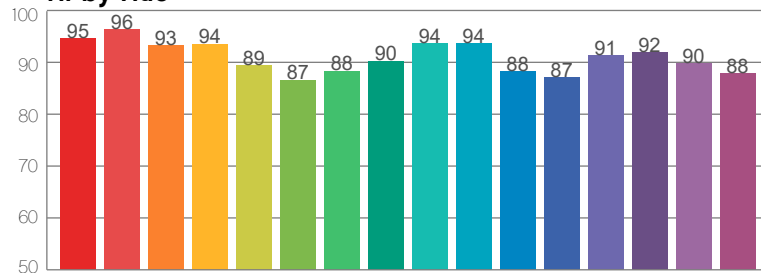
Color Vector Graphic



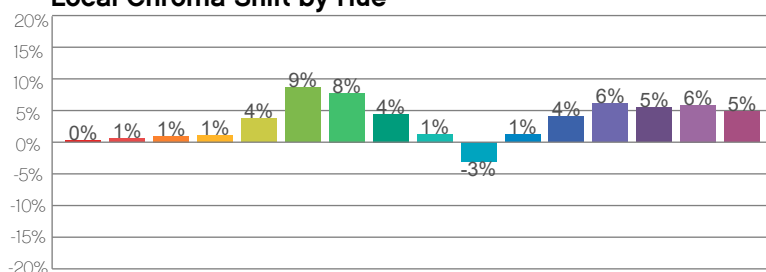
Color Distortion Graphic



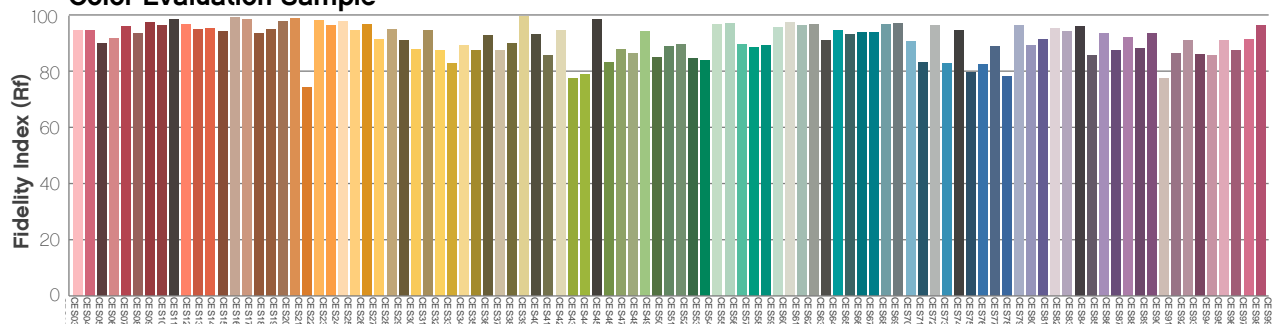
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 5600K

## Report Summary

### Measurements

Fixture Output: 3819 lm  
Fixture Peak: 19540 cd  
Fixture Efficacy: 45 lm/W  
Intensity @ 5m: 781 lux  
Color Temperature: 5632 K  
CRI: 91.3      CRI R9 Value: 89.8  
CQS: 91.1  
TLCI: 86  
TM-30 Rf: 88.6  
TM-30 Rg: 106.8  
Beam Angle (50%): 17.9°  
Field Angle (10%): 40.9°  
Cutoff Angle (3%): 73.5°

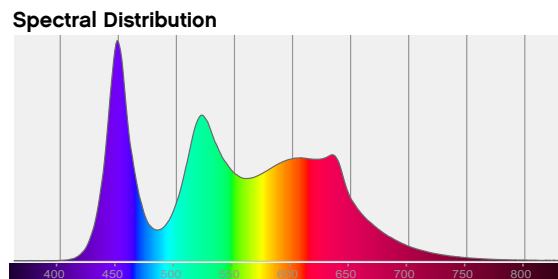
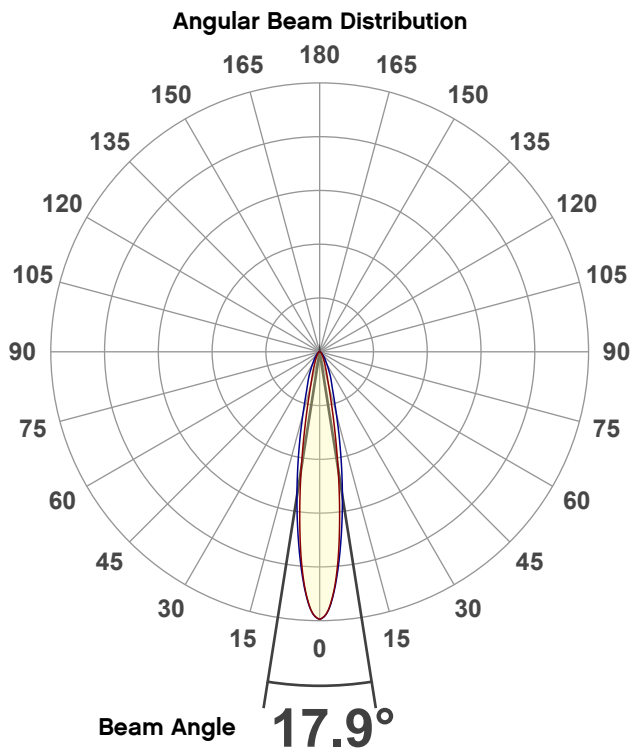


### Conditions

AC Supply: 116 V, 60 Hz  
Power: 85.99 W  
Current: 0.739 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 Davie, FL on 8/13/2024 to LM-63-2002 Standards.

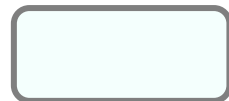
## Overall Measurement



Tested Color (CIE 1931):

X: 0.330

Y: 0.335



Light Quality

CRI: 91.3

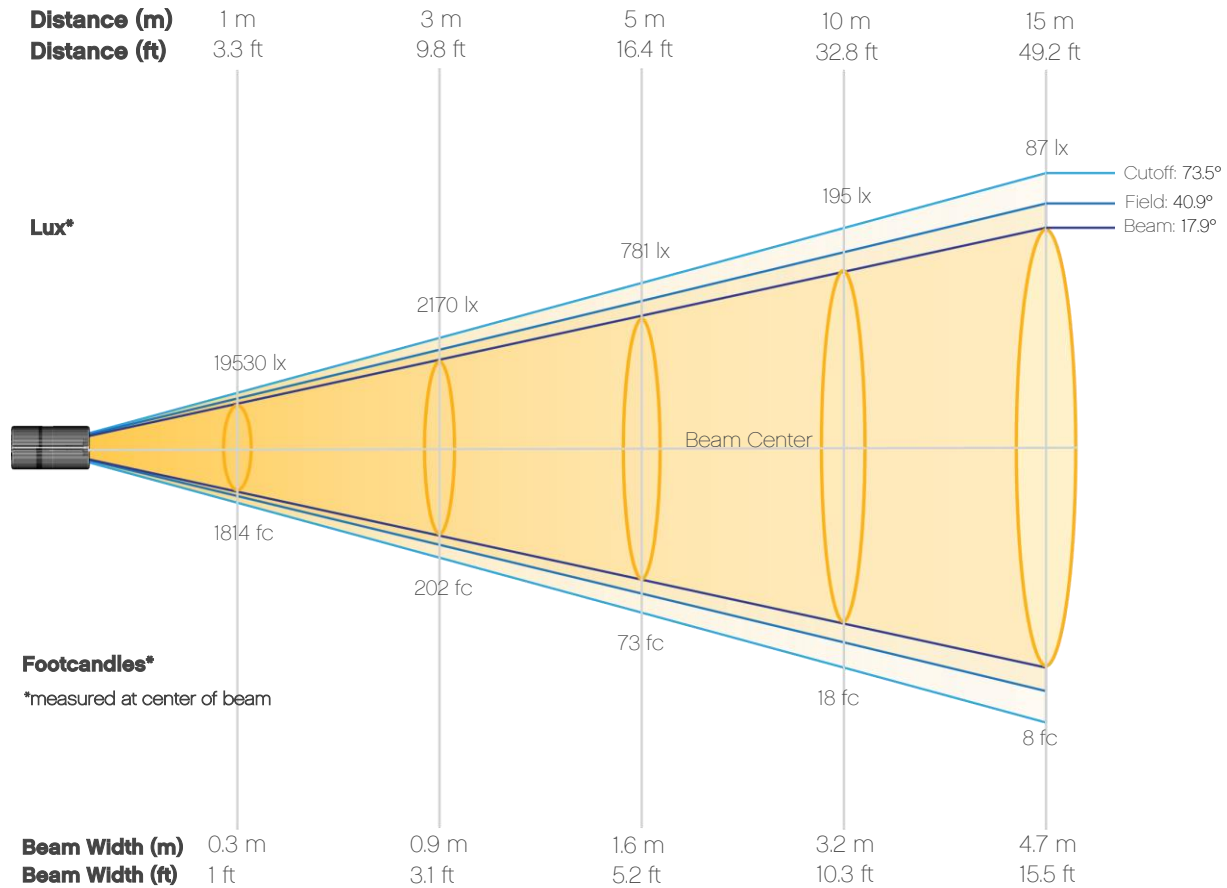
Color Temperature

5632 K

# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 5600K

## Beam Details

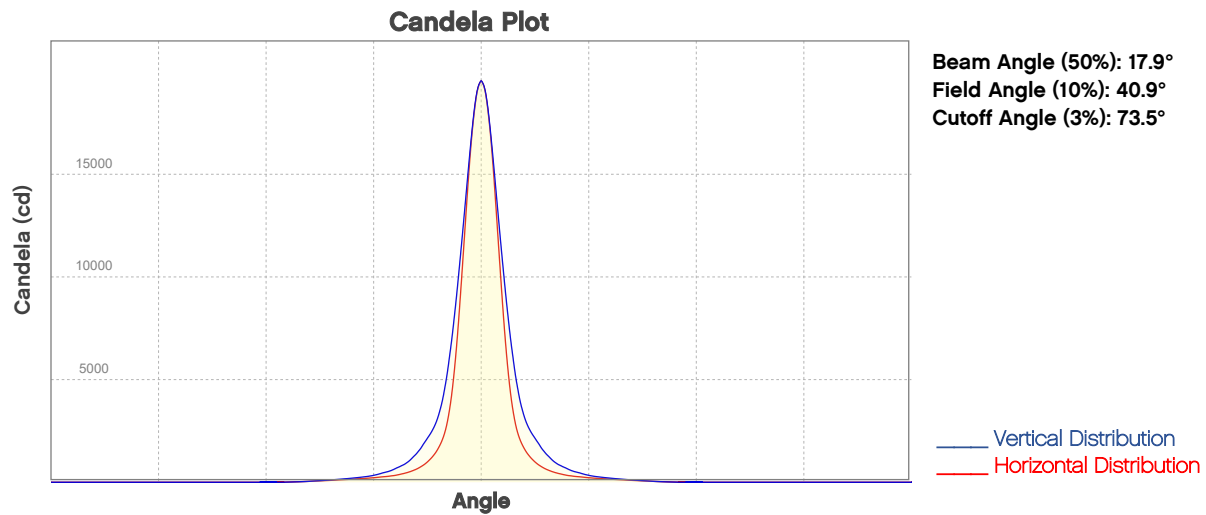


### Beam Intensities from 1-20m (3.3-65.6ft)

<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	19530	4882	2170	1221	781	542	399	305	241	195
<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	161	136	116	100	87	76	68	60	54	49
<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	1814	454	202	113	73	50	37	28	22	18
<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	15	13	11	9	8	7	6	6	5	5

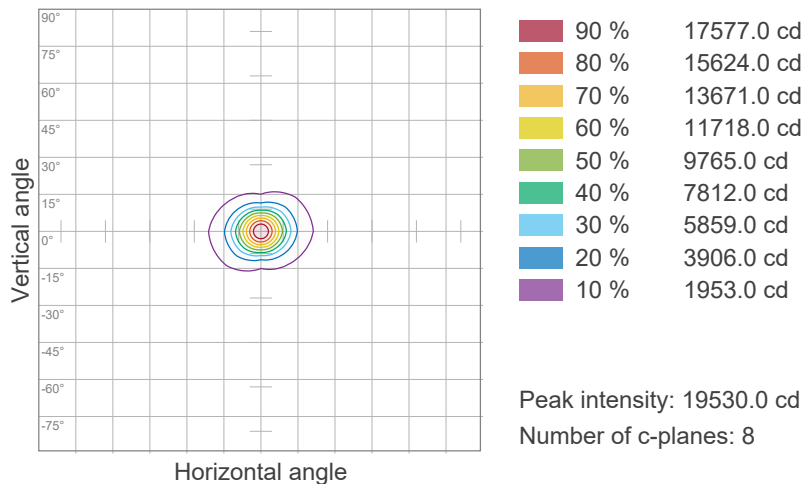
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 5600K

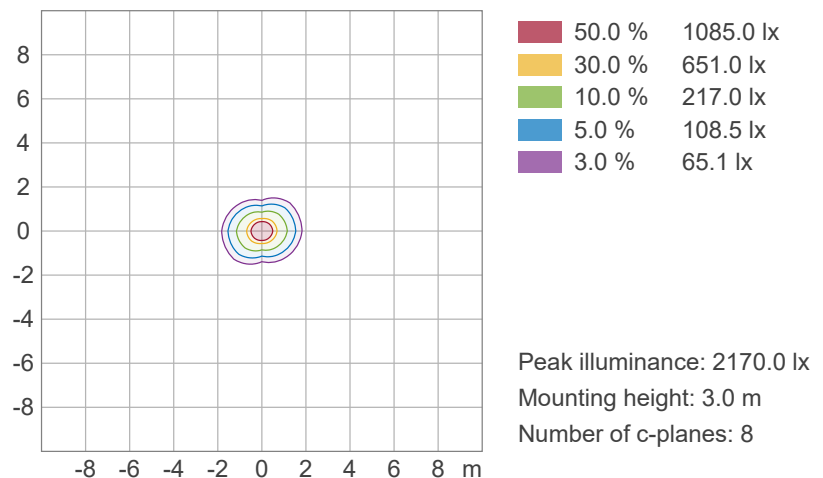


## ISO Diagrams

### ISO Candela Diagram



### ISO Lux Diagram

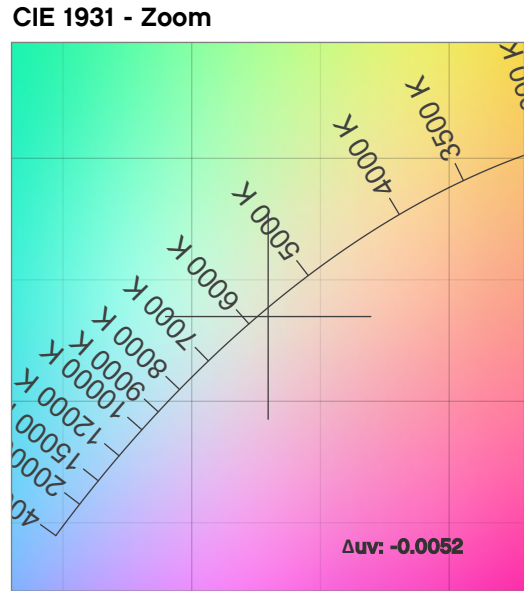
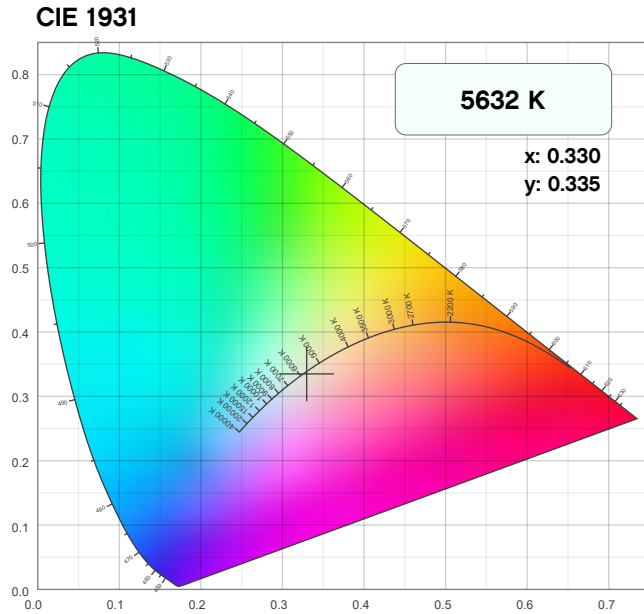




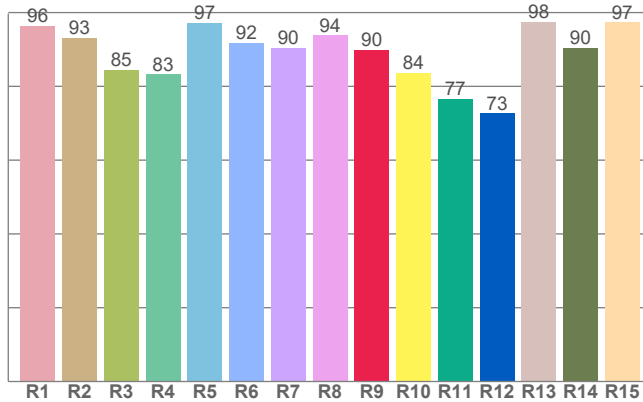
# Photometric & Chromaticity Report

COLORado Solo Bar 1: Standard Optics - 5600K

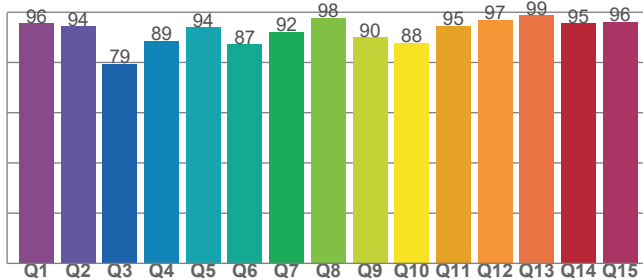
## Chromaticity



**CRI: 91.3 (R1-R8)**



**CQS: 91.1**



**Color Parameters**

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5632 K	0.330	0.335

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0052	0.335	0.207

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
91.3	89.8	91.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
86	88.6	106.8

# Photometric & Chromaticity Report

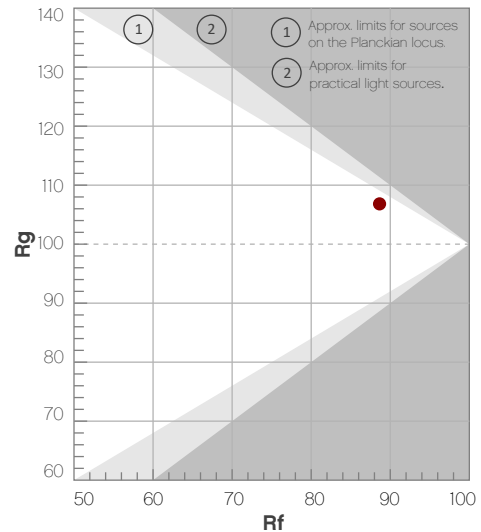
COLORado Solo Bar 1: Standard Optics - 5600K

## TM-30 Details

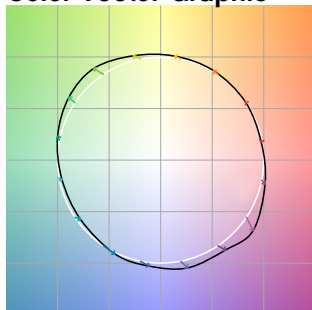
**Rf 88.6**  
Fidelity Index  
(Rg)

**Rg 106.8**  
Gammut Index  
(Rg)

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	94	-1%	-2%
2	96	0%	1%
3	90	1%	5%
4	89	2%	6%
5	87	4%	6%
6	85	10%	4%
7	88	8%	-1%
8	92	2%	-3%
9	94	-2%	-1%
10	90	-3%	5%
11	78	0%	14%
12	86	3%	9%
13	89	8%	5%
14	86	7%	4%
15	84	13%	-7%
16	92	4%	-3%



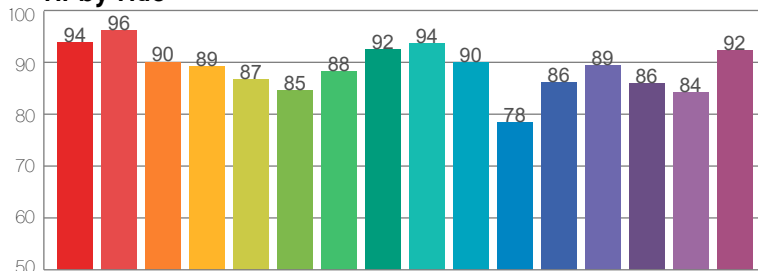
Color Vector Graphic



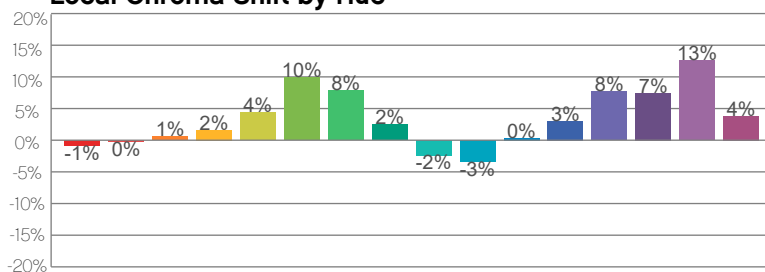
Color Distortion Graphic



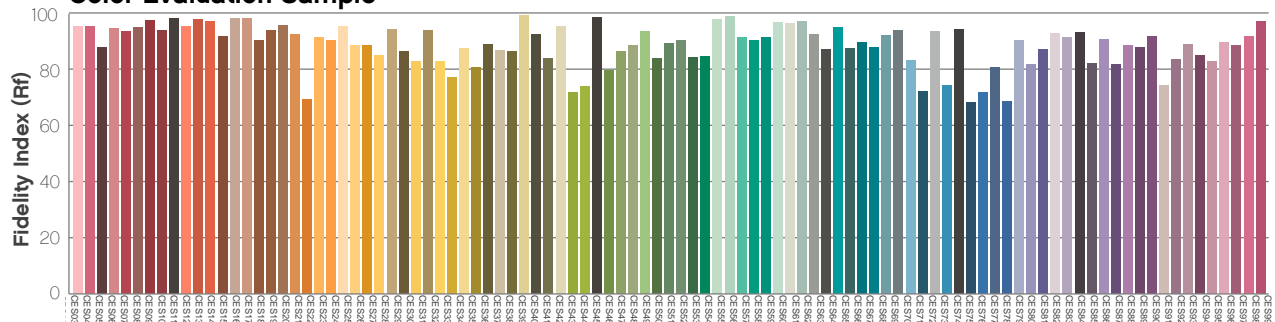
R<sub>f</sub> by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



## Contact Us

General Information	Technical Support
<b>Chauvet World Headquarters</b>	
Address: 3360 Davie Rd., Suite 509 Davie, FL 33314 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: <a href="mailto:chauvetcs@chauvetlighting.com">chauvetcs@chauvetlighting.com</a> Website: <a href="http://www.chauvetdj.com">www.chauvetdj.com</a>
<b>Chauvet U.K.</b>	
Address: Pod 1 EVO Park Little Oak Drive, Sherwood Park Nottinghamshire, NG15 0EB UK Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: <a href="mailto:UKtech@chauvetlighting.eu">UKtech@chauvetlighting.eu</a> Website: <a href="http://www.chauvetprofessional.eu">www.chauvetprofessional.eu</a>
<b>Chauvet Benelux</b>	
Address: Stokstraat 18 9770 Kruishoutem Belgium Voice: +32 9 388 93 97	Email: <a href="mailto:BNLtech@chauvetlighting.eu">BNLtech@chauvetlighting.eu</a> Website: <a href="http://www.chauvetdj.eu">www.chauvetdj.eu</a>
<b>Chauvet France</b>	
Address: 3, Rue Ampère 91380 Chilly-Mazarin France Voice: +33 1 78 85 33 59	Email: <a href="mailto:FRtech@chauvetlighting.fr">FRtech@chauvetlighting.fr</a> Website: <a href="http://www.chauvetdj.eu">www.chauvetdj.eu</a>
<b>Chauvet Germany</b>	
Address: Bruno-Bürgel-Str. 11 28759 Bremen Germany Voice: +49 421 62 60 20	Email: <a href="mailto:DEtech@chauvetlighting.de">DEtech@chauvetlighting.de</a> Website: <a href="http://www.chauvetdj.eu">www.chauvetdj.eu</a>
<b>Chauvet Mexico</b>	
Address: 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: <a href="mailto:servicio@chauvet.com.mx">servicio@chauvet.com.mx</a> Website: <a href="http://www.chauvetdj.mx">www.chauvetdj.mx</a>

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