

PHOTOMETRICS REPORT

ROGUE



Table of Contents

Introduction.....	1
Testing Process.....	1
Total Illuminance Measurements	1
Testing Lab Equipment and Process	1
Photometrics & Chromaticity Reports	2
Beam - Full power	3
Report Summary	3
Overall Measurement.....	3
Beam Details.....	4
ISO Diagrams	5
Chromaticity.....	6
TM-30 Details	7
Fidelity Index (Rg).....	7
Gammut Index (Rg).....	7
Beam-Stable - Full Power	8
Report Summary	8
Overall Measurement.....	8
Beam Details.....	9
ISO Diagrams	10
Chromaticity.....	11
TM-30 Details	12
Fidelity Index (Rg).....	12
Gammut Index (Rg).....	12
Contact Us.....	13

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.



Photometrics & Chromaticity Reports

Photometric & Chromaticity Report

Rogue Outcast 1L Beam : Beam - Full power

Report Summary

Measurements

Fixture Output: 3218 lm
Fixture Peak: 5616762 cd
Fixture Efficacy: 17 lm/W
Intensity @ 5m: 224670 lux
Color Temperature: 6928 K
CRI: 69.3 CRI R9 Value: -32.6
CQS: 69.1
TLCI: 48
TM-30 Rf: 70.2
TM-30 Rg: 94.8
Beam Angle (50%): 1.4°
Field Angle (10%): 1.7°
Cutoff Angle (2%): 1.8°

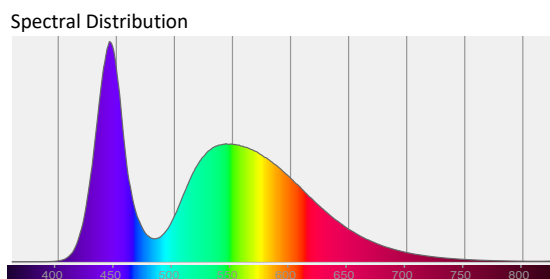
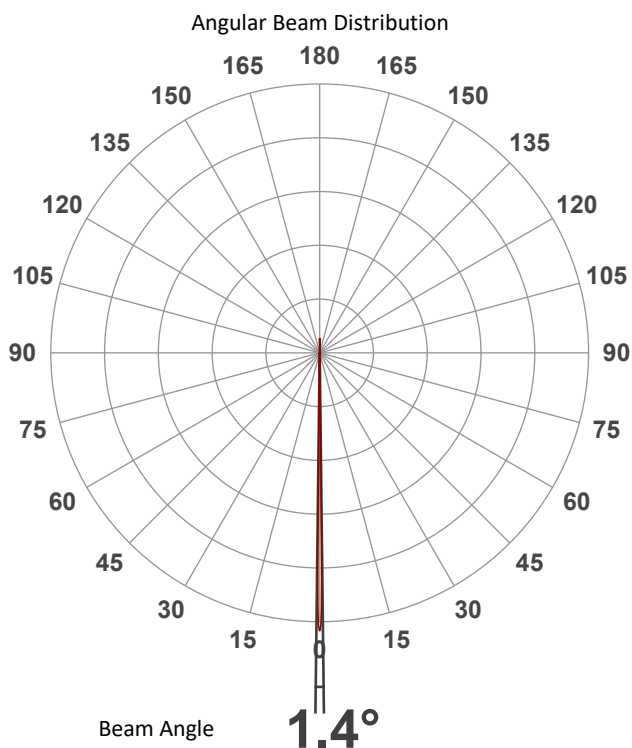


Conditions

AC Supply: 118 V, 60 Hz
Power: 187.92 W
Current: 1.59 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/21/2021 to LM-63-2002 Standards.

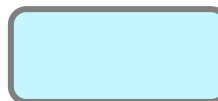
Overall Measurement



Tested Color (CIE 1931):

X: 0.306

Y: 0.324



Light Quality

CRI: 69.3

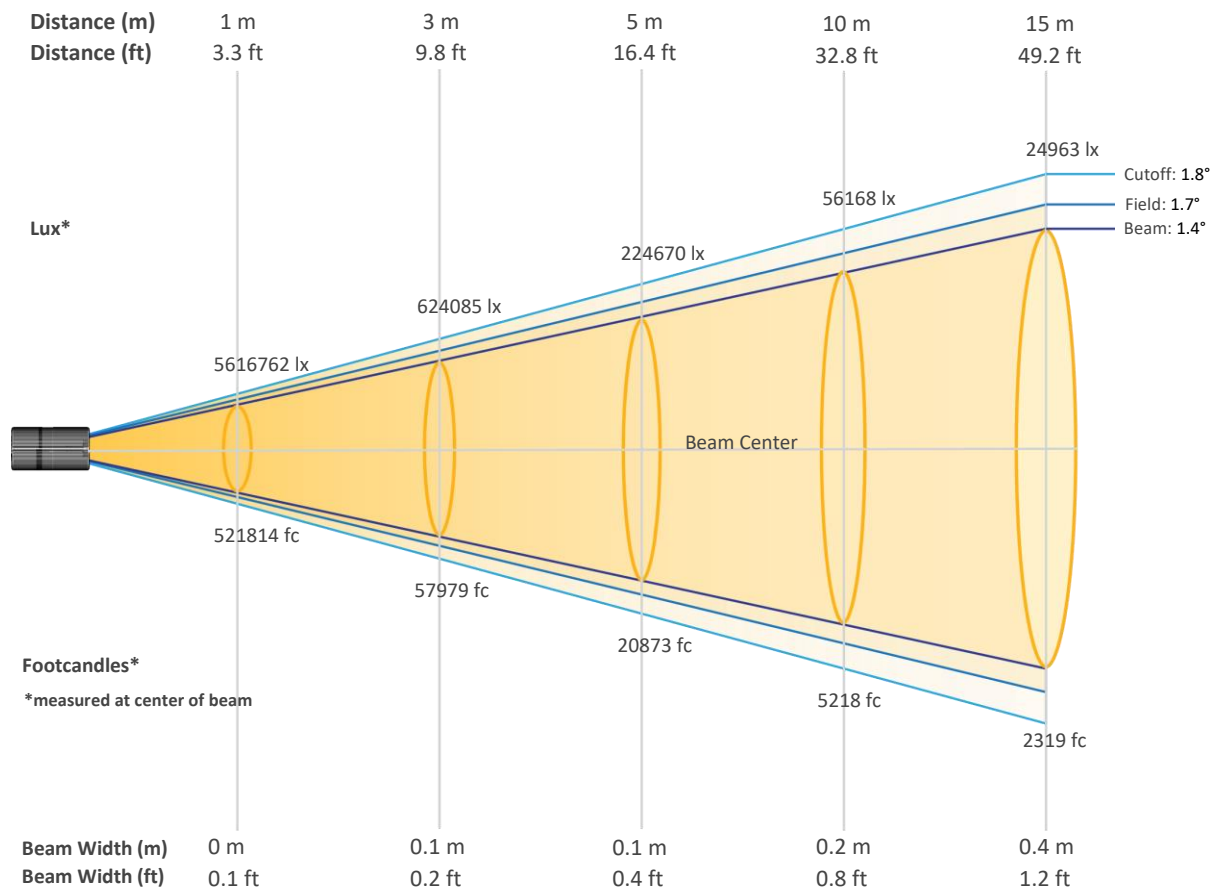
Color Temperature

6928 K

Photometric & Chromaticity Report

Rogue Outcast 1L Beam : Beam - Full power

Beam Details

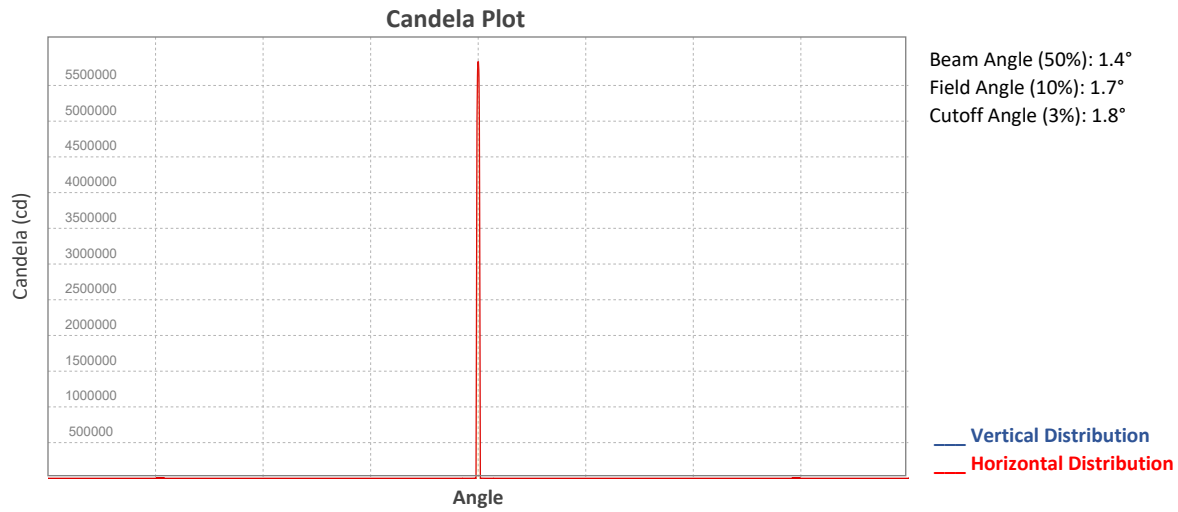


Beam Intensities from 1-20m (3.3-65.6ft)

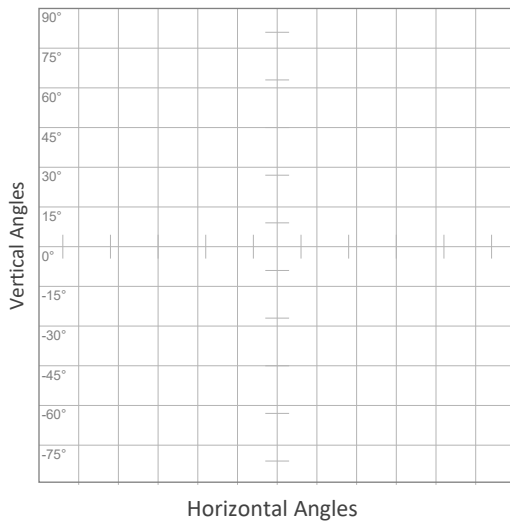
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	5616762	1404190	624085	351048	224670	156021	114628	87762	69343	56168
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	46420	39005	33235	28657	24963	21940	19435	17336	15559	14042
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	521814	130454	57979	32613	20873	14495	10649	8153	6442	5218
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	4313	3624	3088	2662	2319	2038	1806	1611	1445	1305

Photometric & Chromaticity Report

Rogue Outcast 1L Beam : Beam - Full power



ISO Diagrams

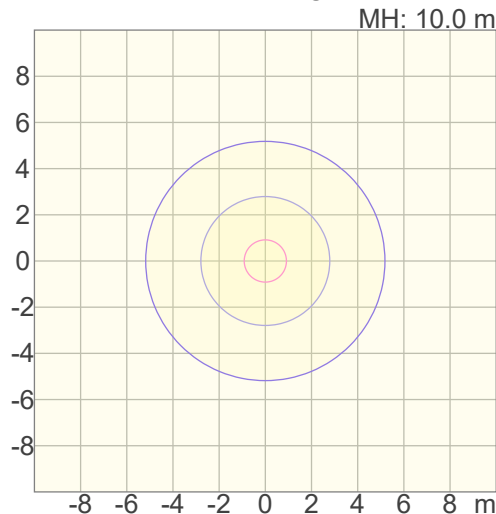


ISO Candela Diagram

10%	561676 cd
20%	1123352 cd
30%	1685029 cd
40%	2246705 cd
50%	2808381 cd
60%	3370057 cd
70%	3931733 cd
80%	4493409 cd
90%	5055086 cd

Conditions:

Number of c-planes: 2
 Candela at center: 5616762 cd



ISO Lux Diagram

3%	1685 lx
5%	2808 lx
10%	5617 lx
30%	16.9K lx
50%	28.1K lx

Conditions:

Number of c-planes: 2
 Candela at center: 56.2K lx

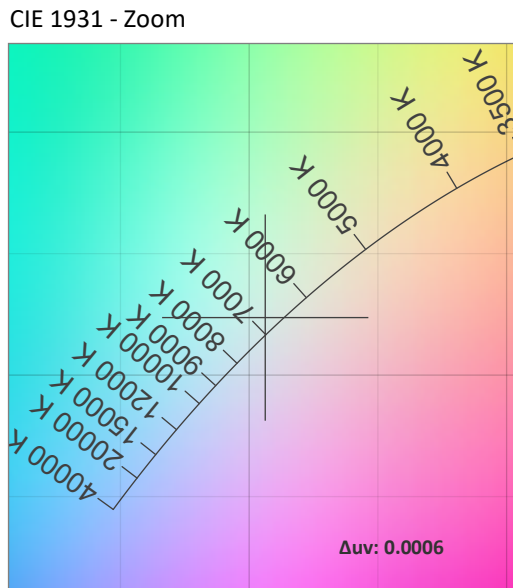
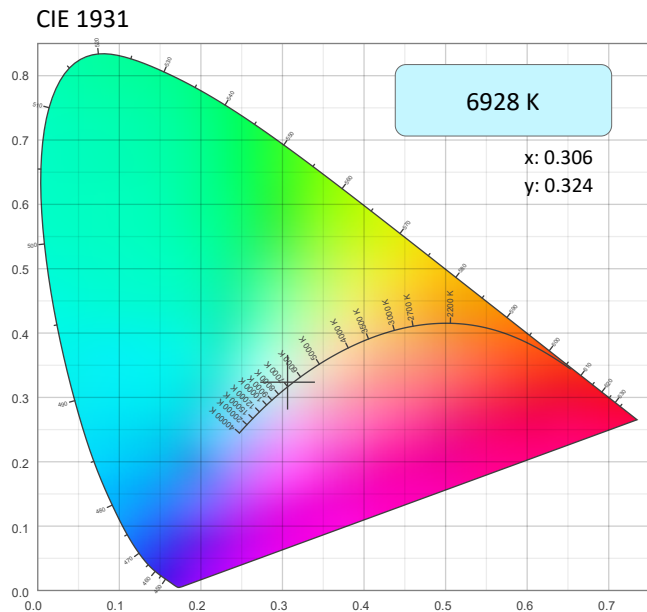
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

Mounting height: 10 meters / 33 feet

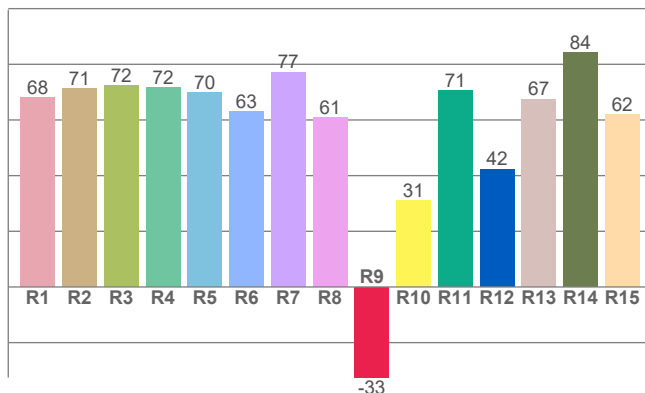
Photometric & Chromaticity Report

Rogue Outcast 1L Beam : Beam - Full power

Chromaticity



CRI: 69.3 (R1-R8)

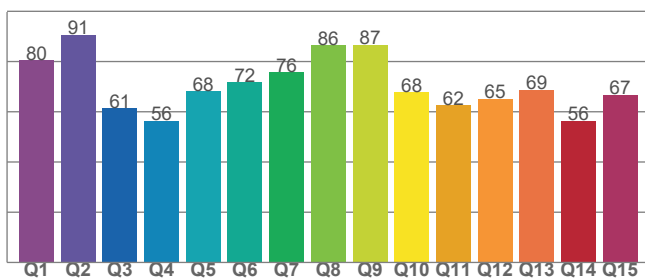


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6928 K	0.306	0.324

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0006	0.324	0.195

CQS: 69.1



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.3	-32.6	69.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
48	70.2	94.8

Photometric & Chromaticity Report

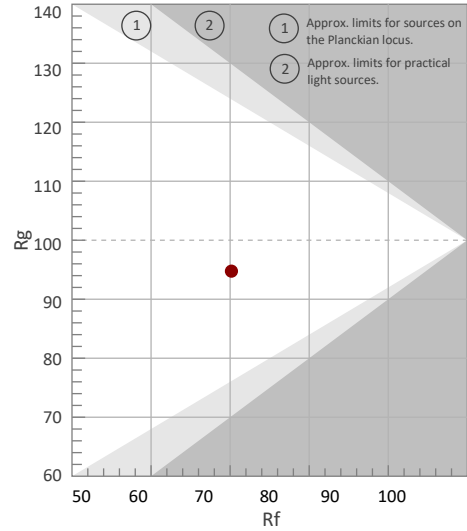
Rogue Outcast 1L Beam : Beam - Full power

TM-30 Details

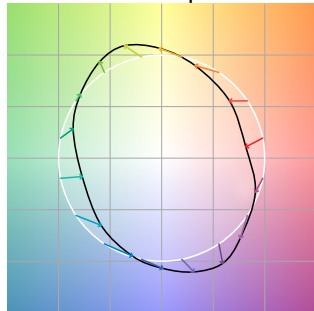
Rf 70.2
Fidelity Index (Rg)

Rg 94.8
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	67	-18%	-5%
2	69	-14%	9%
3	63	-7%	23%
4	63	4%	23%
5	70	14%	14%
6	82	11%	-2%
7	89	0%	-8%
8	75	-10%	-11%
9	76	-21%	2%
10	61	-15%	22%
11	48	-5%	29%
12	67	5%	22%
13	78	14%	9%
14	78	18%	-7%
15	70	7%	-22%
16	75	-4%	-14%



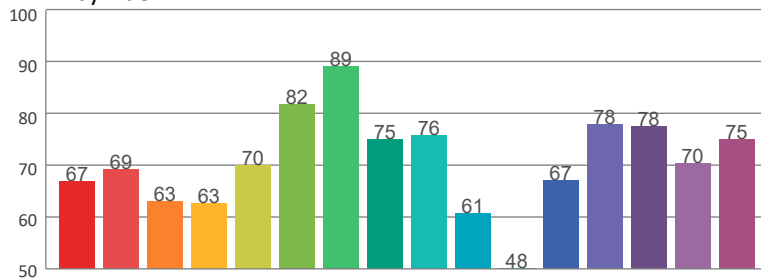
Color Vector Graphic



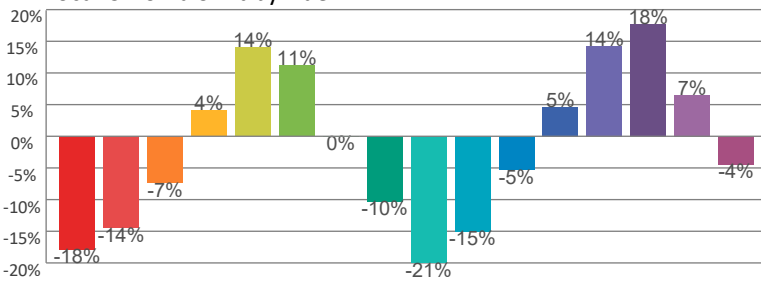
Color Distortion Graphic



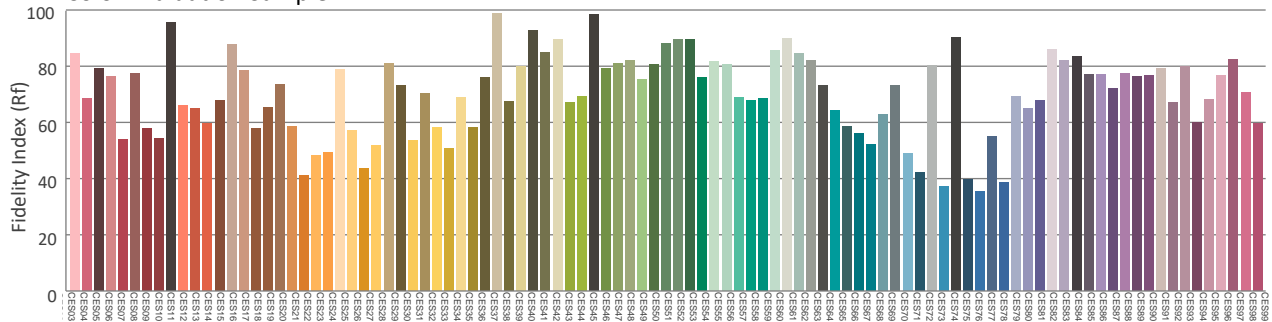
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Rogue Outcast 1L Beam : Beam-Stable - Full Power

Report Summary

Measurements

Fixture Output: 3711 lm
Fixture Peak: 5662527 cd
Fixture Efficacy: 20 lm/W
Intensity @ 5m: 226501 lux
Color Temperature: 6912 K
CRI: 69.3 CRI R9 Value: -32.6
CQS: 69.1
TLCI: 48
TM-30 Rf: 70.1
TM-30 Rg: 94.8
Beam Angle (50%): 1.3°
Field Angle (10%): 1.8°
Cutoff Angle (2%): 2.1°

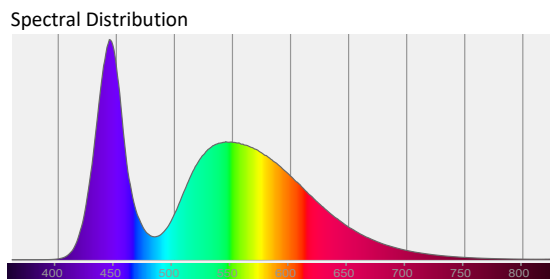
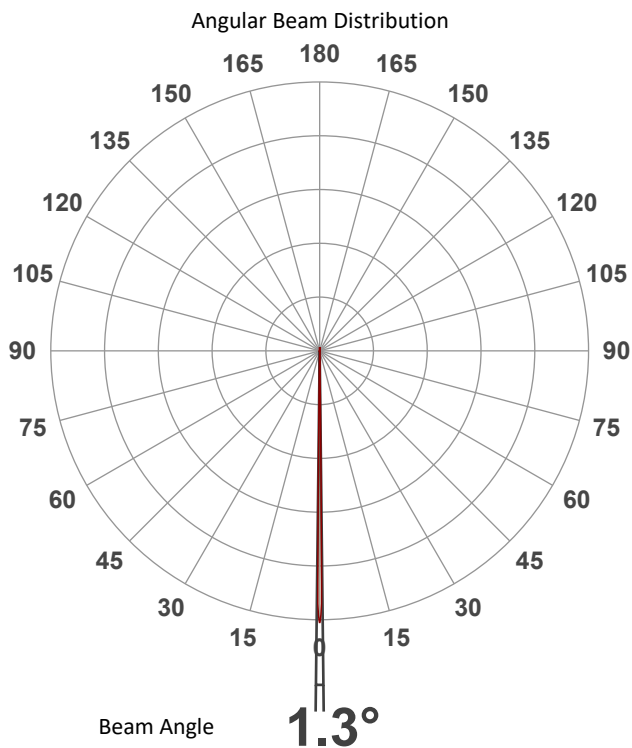


Conditions

AC Supply: 118 V, 60.1 Hz
Power: 190.04 W
Current: 1.61 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/21/2021 to LM-63-2002 Standards.

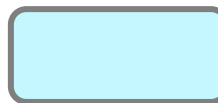
Overall Measurement



Tested Color (CIE 1931):

X: 0.306

Y: 0.324



Light Quality

CRI: 69.3

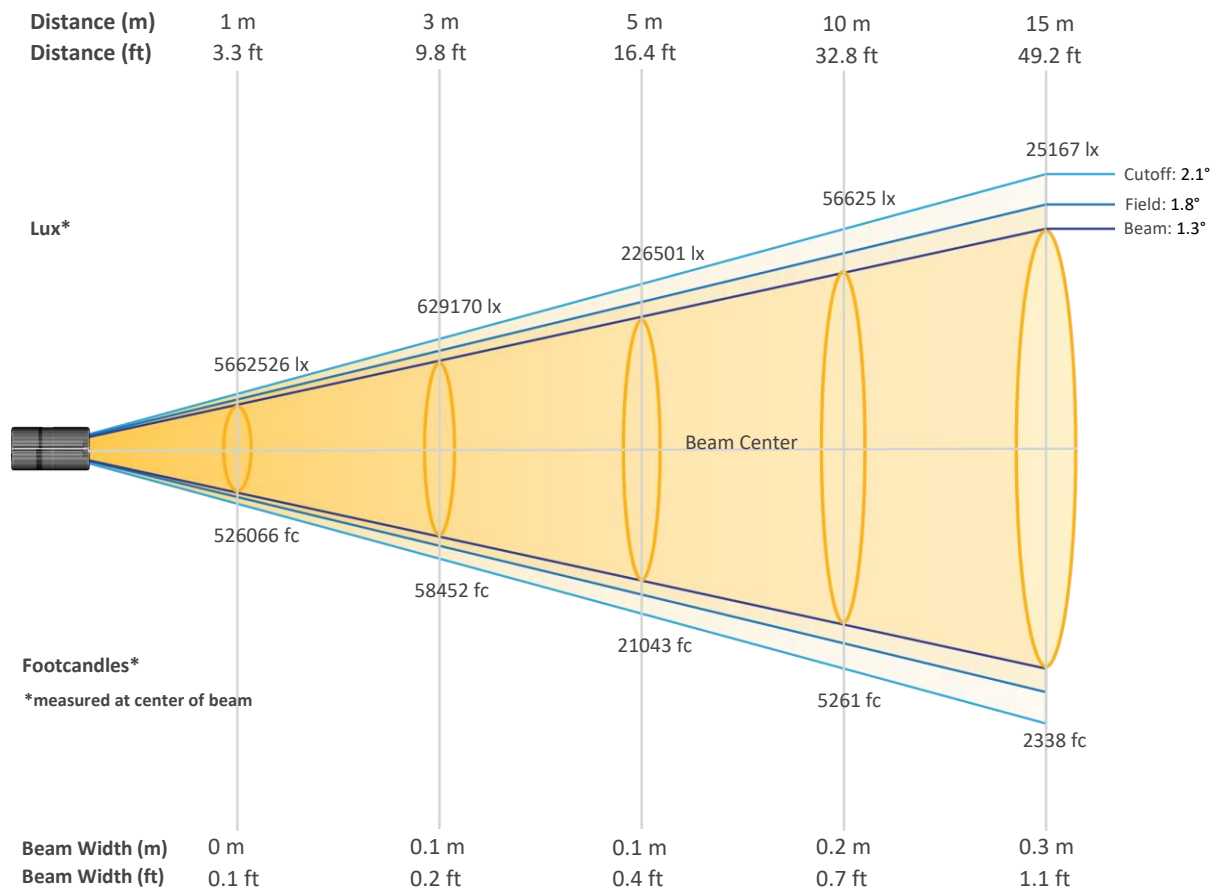
Color Temperature

6912 K

Photometric & Chromaticity Report

Rogue Outcast 1L Beam : Beam-Stable - Full Power

Beam Details

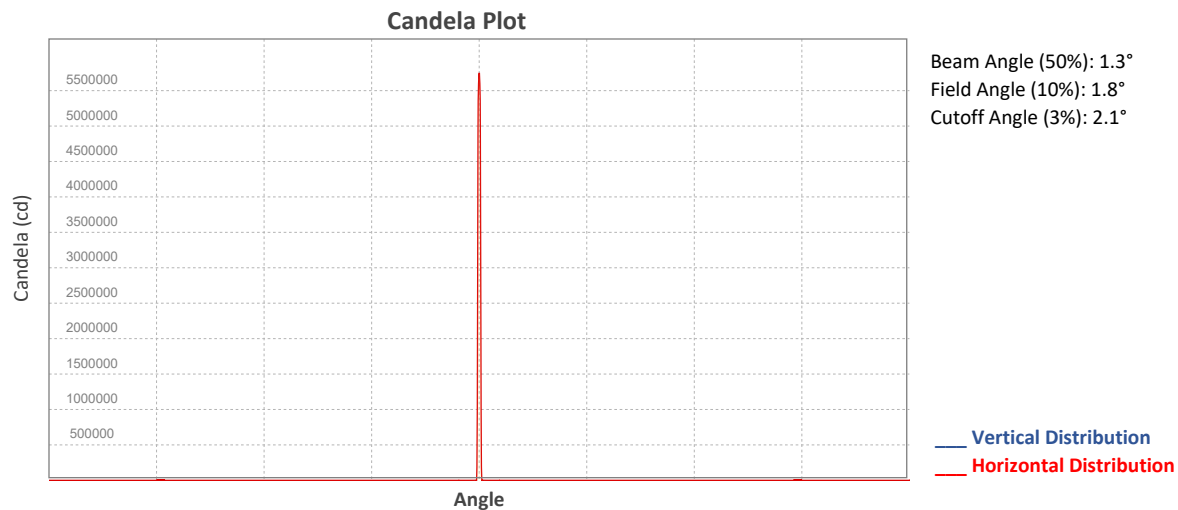


Beam Intensities from 1-20m (3.3-65.6ft)

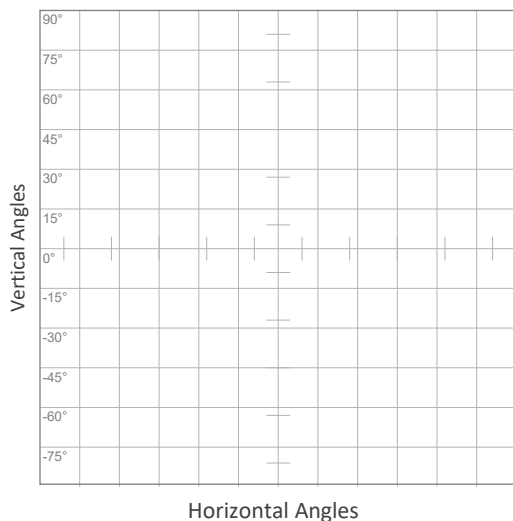
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	5662526	1415632	629170	353908	226501	157292	115562	88477	69908	56625
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	46798	39323	33506	28890	25167	22119	19594	17477	15686	14156
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	526066	131516	58452	32879	21043	14613	10736	8220	6495	5261
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	4348	3653	3113	2684	2338	2055	1820	1624	1457	1315

Photometric & Chromaticity Report

Rogue Outcast 1L Beam : Beam-Stable - Full Power



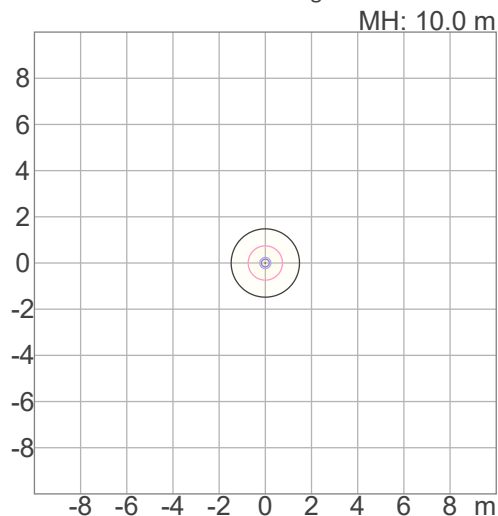
ISO Diagrams



ISO Candela Diagram

10%	566253 cd
20%	1132505 cd
30%	1698758 cd
40%	2265011 cd
50%	2831263 cd
60%	3397516 cd
70%	3963768 cd
80%	4530021 cd
90%	5096274 cd

Conditions:
 Number of c-planes: 2
 Candela at center: 5662526 cd



ISO Lux Diagram

3%	1699 lx
5%	2831 lx
10%	5663 lx
30%	17.0K lx
50%	28.3K lx

Conditions:
 Number of c-planes: 2
 Candela at center: 56.6K lx

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

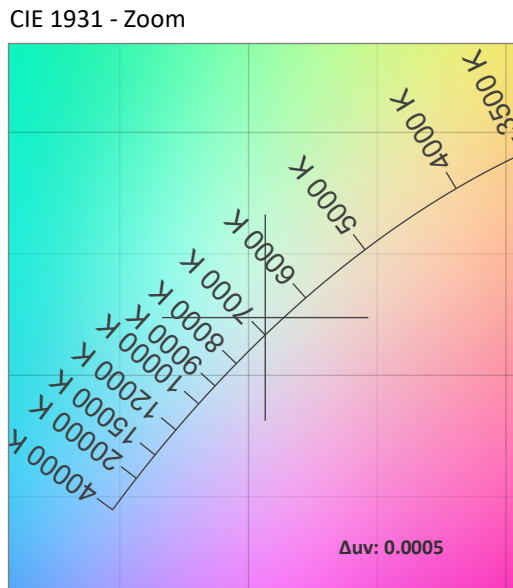
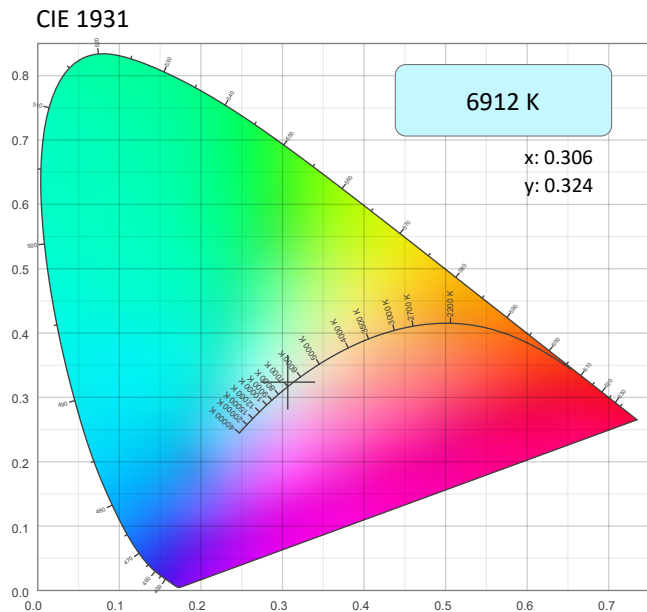
Mounting height: 10 meters / 33 feet



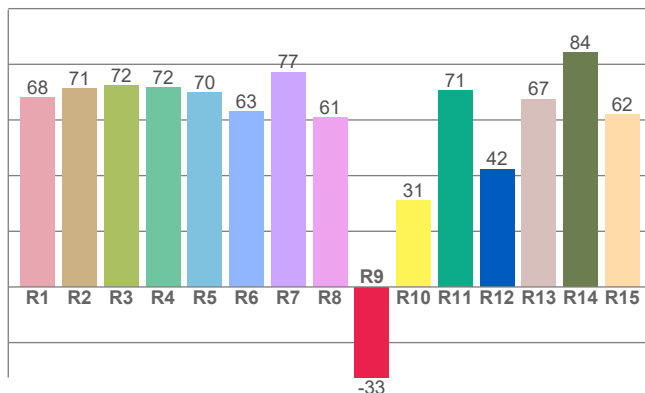
Photometric & Chromaticity Report

Rogue Outcast 1L Beam : Beam-Stable - Full Power

Chromaticity



CRI: 69.3 (R1-R8)

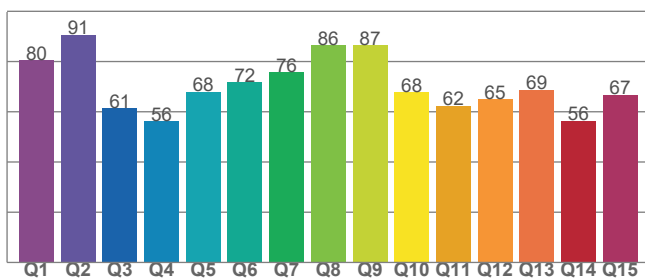


Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6912 K	0.306	0.324

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0005	0.324	0.195

CQS: 69.1



Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
69.3	-32.6	69.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
48	70.1	94.8

Photometric & Chromaticity Report

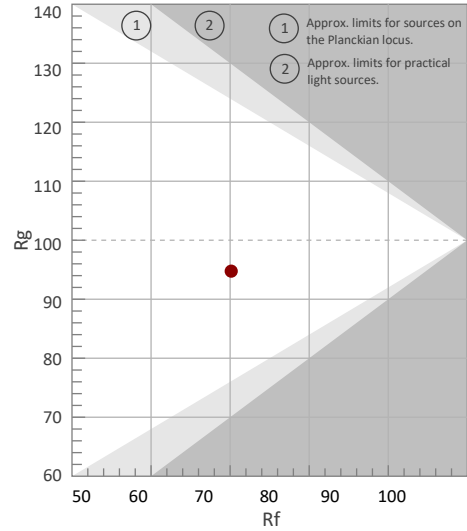
Rogue Outcast 1L Beam : Beam-Stable - Full Power

TM-30 Details

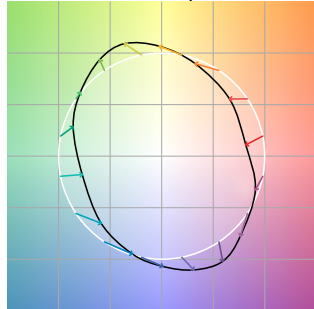
Rf 70.1
Fidelity Index (Rg)

Rg 94.8
Gammut Index (Rg)

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	67	-18%	-5%
2	69	-14%	10%
3	63	-7%	23%
4	63	4%	23%
5	70	14%	14%
6	82	11%	-2%
7	89	0%	-8%
8	75	-10%	-11%
9	76	-21%	2%
10	61	-15%	22%
11	48	-5%	29%
12	67	5%	22%
13	78	14%	9%
14	78	18%	-7%
15	70	7%	-22%
16	75	-4%	-14%



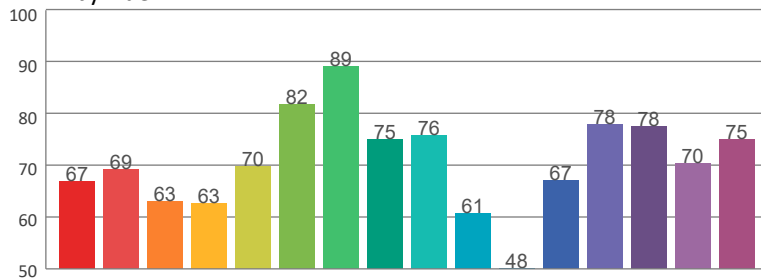
Color Vector Graphic



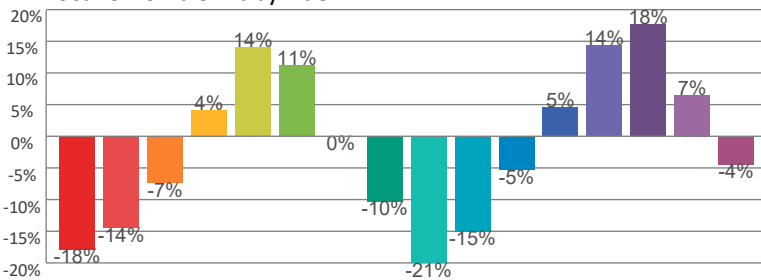
Color Distortion Graphic



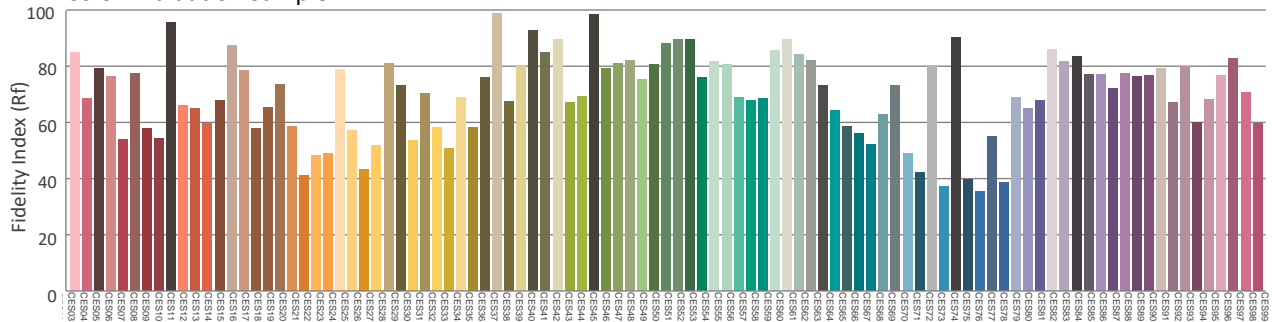
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Contact Us

General Information	Technical Support
World Headquarters	
5200 NW 108 th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetprofessional.com
U.K.	
Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0) 1773 511115 Fax: +44 (0) 1773 511110	Email: UKtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Benelux	
Stokstraat 18 9770 Kruishoutem, Belgium Voice: +32 (9) 388 93 97	Email: BNLtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
France	
3, Rue Ampère 91380 Chilly-Mazarin, France Voice: +33 1 78 85 33 59	Email: FRtech@chauvetlighting.fr Website: www.chauvetprofessional.eu
Germany	
Bruno-Bürgel-Str. 11 28759 Bremen, Germany Voice: +49 421 62 60 20	Email: DEtech@chauvetlighting.de Website: www.chauvetprofessional.eu
Mexico	
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: servicio@chauvetlighting.de Website: www.chauvetprofessional.eu

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.