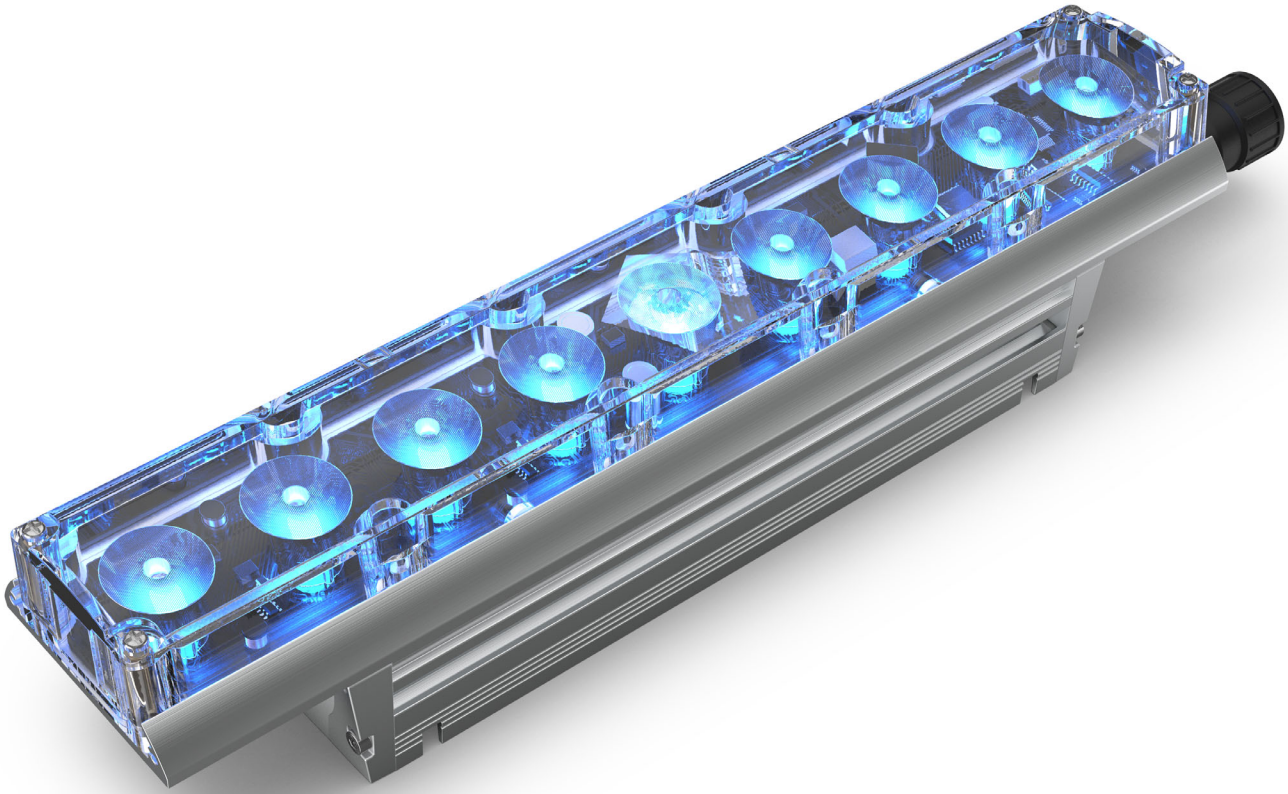
PHOTOMETRICS REPORT

ILUMI**LINE** SL



ILUMIN**ARC**®

Table of Contents

Testing Process

Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.

Photometric Report

Ilumiline SL: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 808 lm
Peak Intensity: 6287 cd
Illuminance @ 5m: 251 lux
Fixture Efficacy: 34 lm/W

Optical

Horizontal Beam Angle (50%): 14.5°
Vertical Beam Angle (50%): 13.2°
Horizontal Field Angle (10%): 30°
Vertical Field Angle (10%): 31.2°
Horizontal Cutoff Angle (3%): 49.6°
Vertical Cutoff Angle (3%): 53.5°

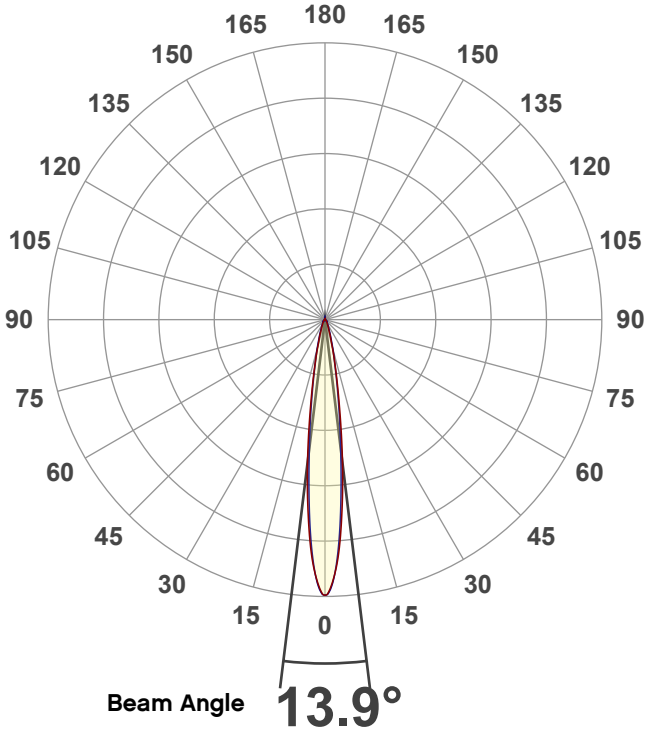
Conditions

AC Supply: 122 V, 60 Hz
Power: 24.66 W
Current: 0.201 A
Power Factor: 0.97

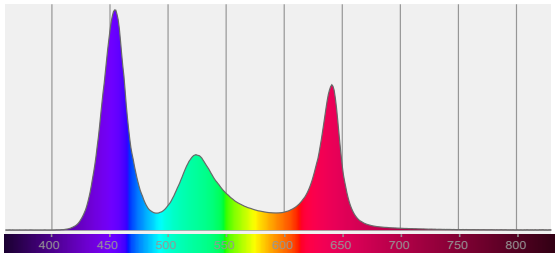
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/23/2021 to LM-63-2002 Standards.

Overall Measurement

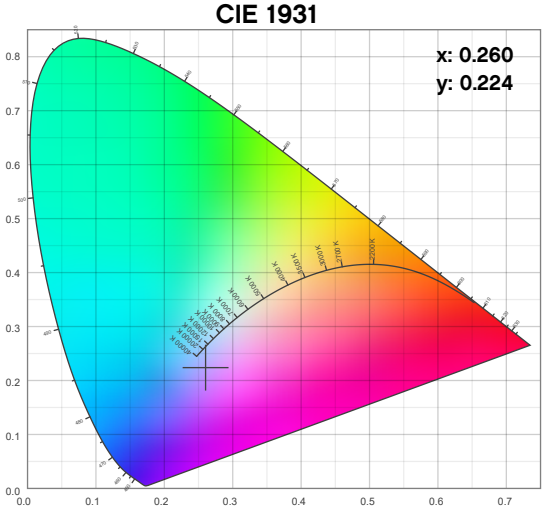
Angular Beam Distribution



Spectral Distribution



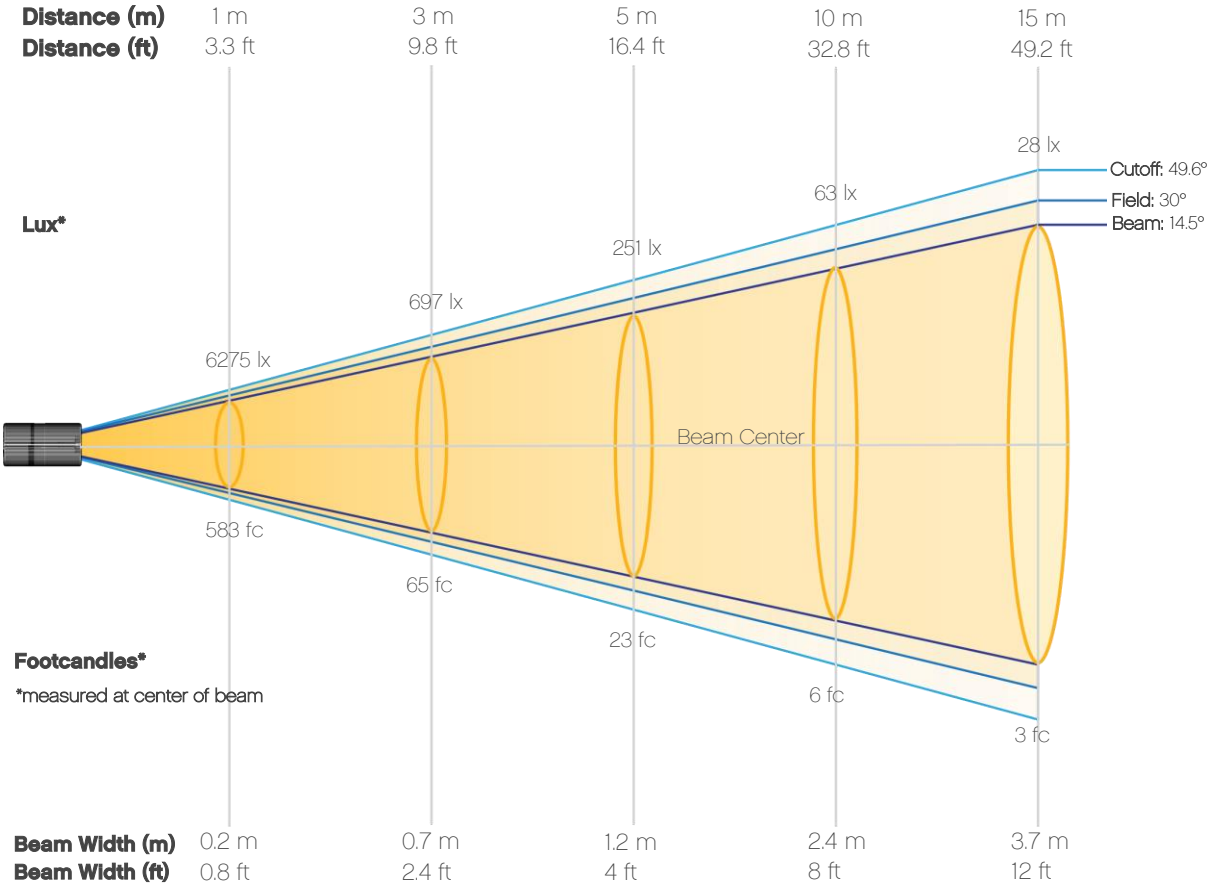
CIE 1931



Photometric Report

Ilumiline SL: Standard Optics, Full Power

Beam Details



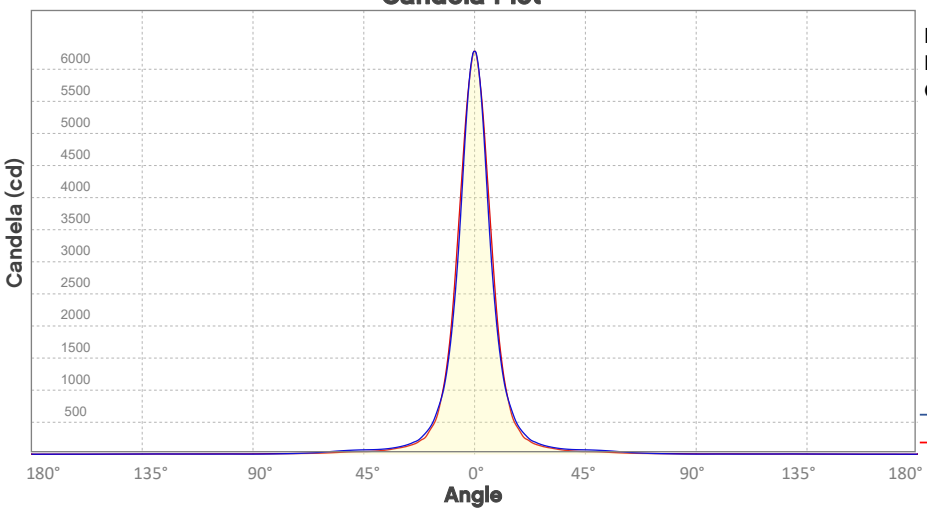
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	6275	1569	697	392	251	174	128	98	77	63
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	52	44	37	32	28	25	22	19	17	16
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	583	146	65	36	23	16	12	9	7	6
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	5	4	3	3	3	2	2	2	2	1

Photometric Report

Ilumiline SL: Standard Optics, Full Power

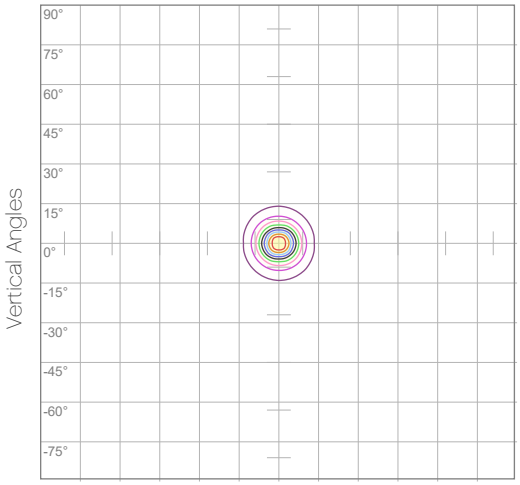
Candela Plot



Beam Angle (50%): 13.9°
Field Angle (10%): 30.8°
Cutoff Angle (3%): 51.7°

Vertical Distribution
Horizontal Distribution

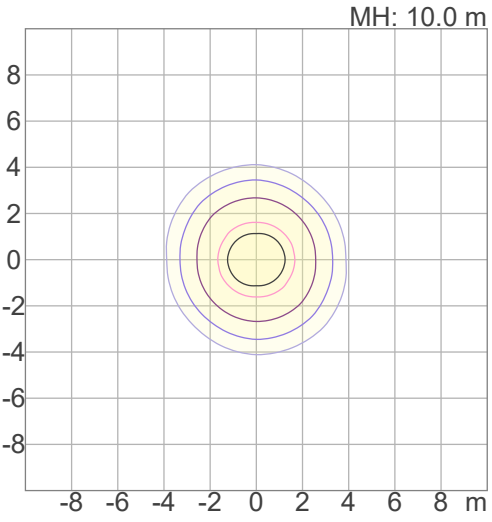
Polar Diagrams



iso-candela Diagram

	10%	628 cd
	20%	1255 cd
	30%	1883 cd
	40%	2510 cd
	50%	3138 cd
	60%	3765 cd
	70%	4393 cd
	80%	5020 cd
	90%	5648 cd

Conditions:
Number of c-planes: 8
Candela at center: 6275 cd



iso-illuminance Diagram

	3%	1.88 lx
	5%	3.14 lx
	10%	6.28 lx
	30%	18.8 lx
	50%	31.4 lx

Conditions:
Number of c-planes: 8
Lux at center: 62.8 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ilumiline SL: Accessory Optics - Medium Filter, Full Power

Report Summary

Output

Total Lumens: 706 lm
Peak Intensity: 2053 cd
Illuminance @ 5m: 82 lux
Fixture Efficacy: 30 lm/W

Optical

Horizontal Beam Angle (50%): 24.1°
Vertical Beam Angle (50%): 24.3°
Horizontal Field Angle (10%): 52.3°
Vertical Field Angle (10%): 54.1°
Horizontal Cutoff Angle (3%): 91.9°
Vertical Cutoff Angle (3%): 101°

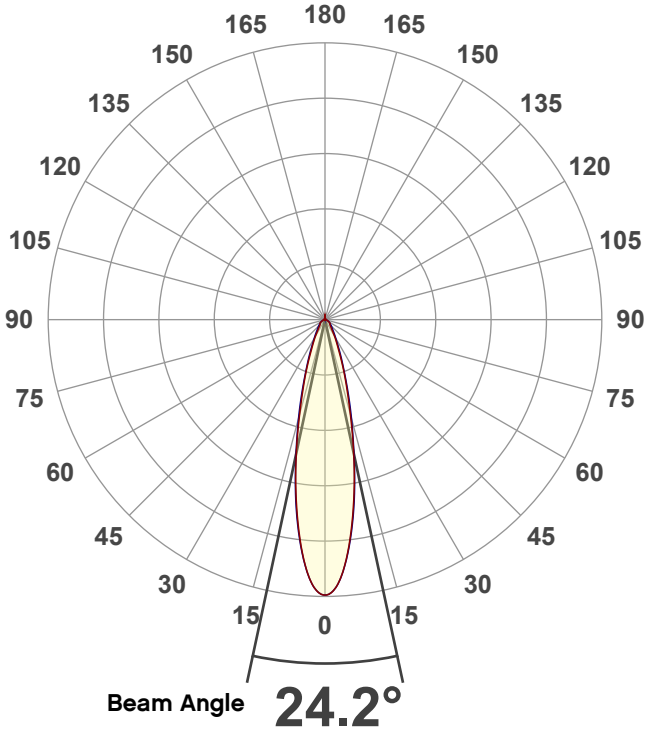
Conditions

AC Supply: 121 V, 60 Hz
Power: 24.52 W
Current: 0.203 A
Power Factor: 0.97

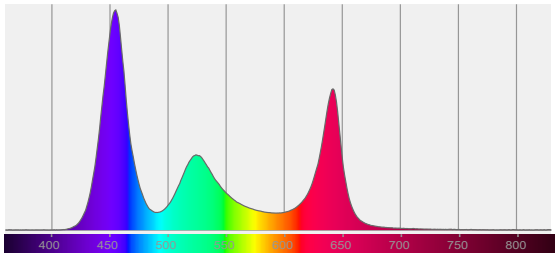
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/26/2021 to LM-63-2002 Standards.

Overall Measurement

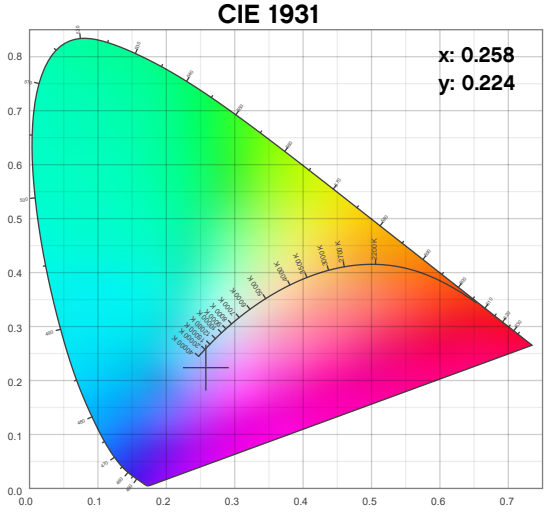
Angular Beam Distribution



Spectral Distribution



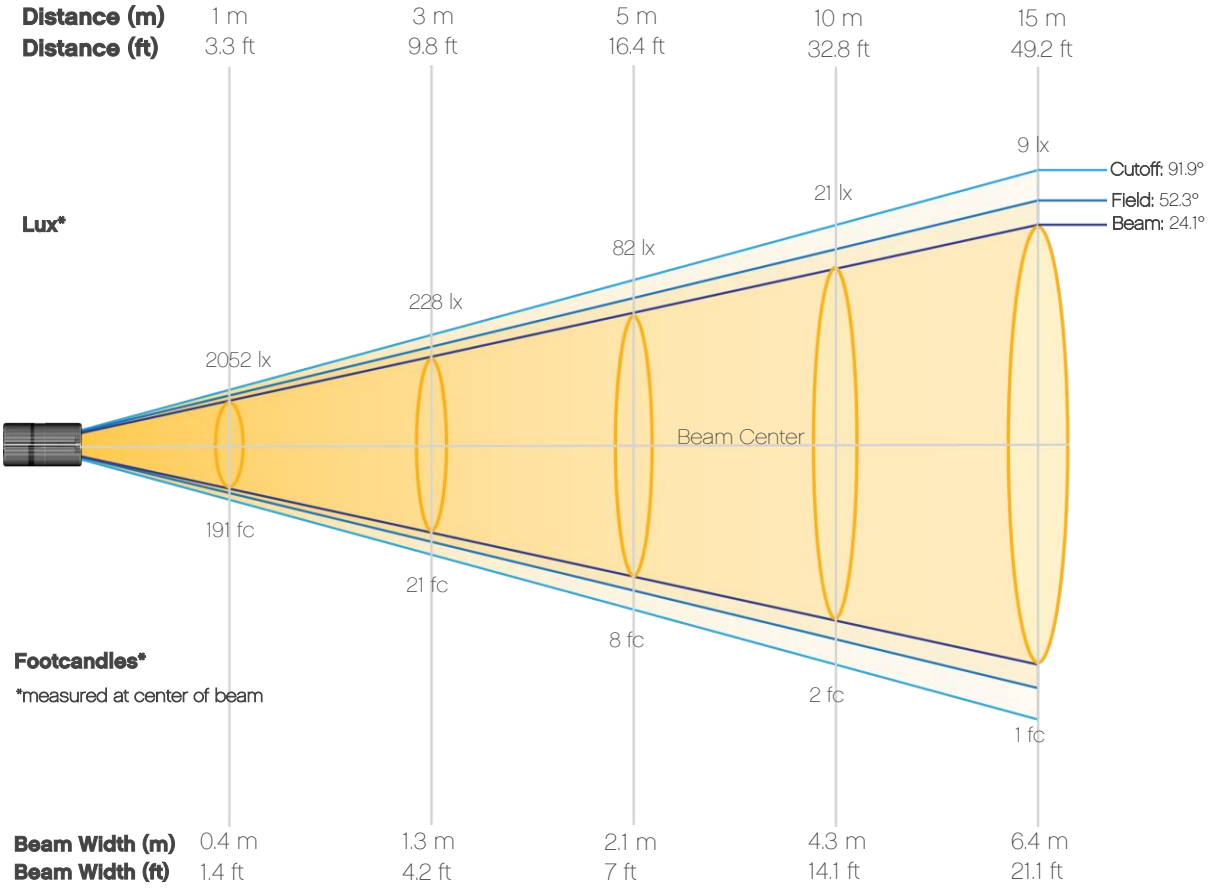
CIE 1931



Photometric Report

Ilumiline SL: Accessory Optics - Medium Filter, Full Power

Beam Details

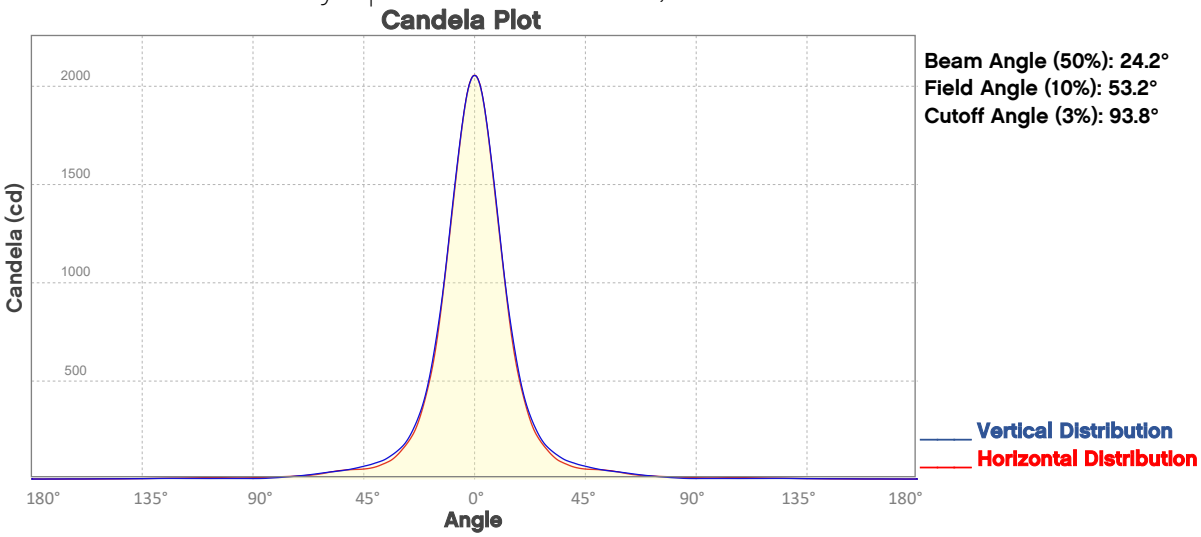


Beam Illuminances from 1-20m (3.3-65.6ft)

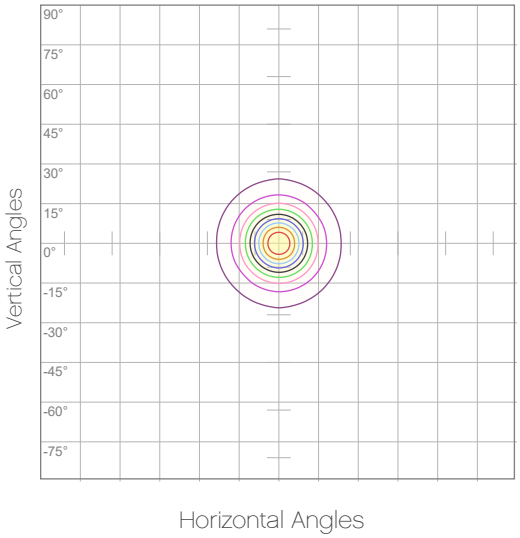
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2052	513	228	128	82	57	42	32	25	21
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	17	14	12	10	9	8	7	6	6	5
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	191	48	21	12	8	5	4	3	2	2
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	1	1	1	1	1	1	1	1	0

Photometric Report

Ilumiline SL: Accessory Optics - Medium Filter, Full Power



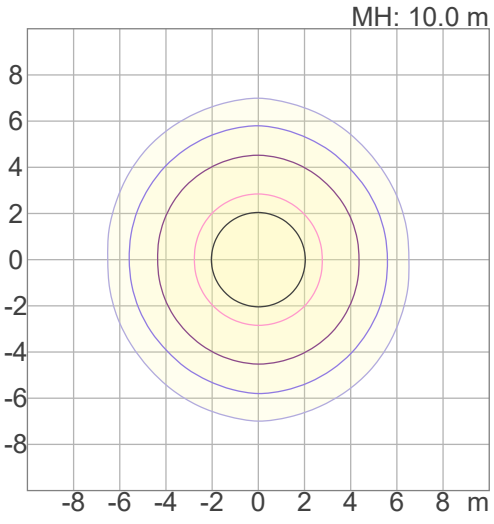
Polar Diagrams



iso-candela Diagram

10%	205 cd
20%	410 cd
30%	615 cd
40%	821 cd
50%	1026 cd
60%	1231 cd
70%	1436 cd
80%	1641 cd
90%	1846 cd

Conditions:
Number of c-planes: 8
Candela at center: 2052 cd



iso-illuminance Diagram

3%	0.615 lx
5%	1.03 lx
10%	2.05 lx
30%	6.15 lx
50%	10.3 lx

Conditions:
Number of c-planes: 8
Lux at center: 20.5 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ilumiline SL: Accessory Optics - Wide Filter, Full Power

Report Summary

Output

Total Lumens: 643 lm
Peak Intensity: 773 cd
Illuminance @ 5m: 31 lux
Fixture Efficacy: 27 lm/W

Optical

Horizontal Beam Angle (50%): 36°
Vertical Beam Angle (50%): 37.9°
Horizontal Field Angle (10%): 116.2°
Vertical Field Angle (10%): 95°
Horizontal Cutoff Angle (3%): 158.6°
Vertical Cutoff Angle (3%): 158.1°

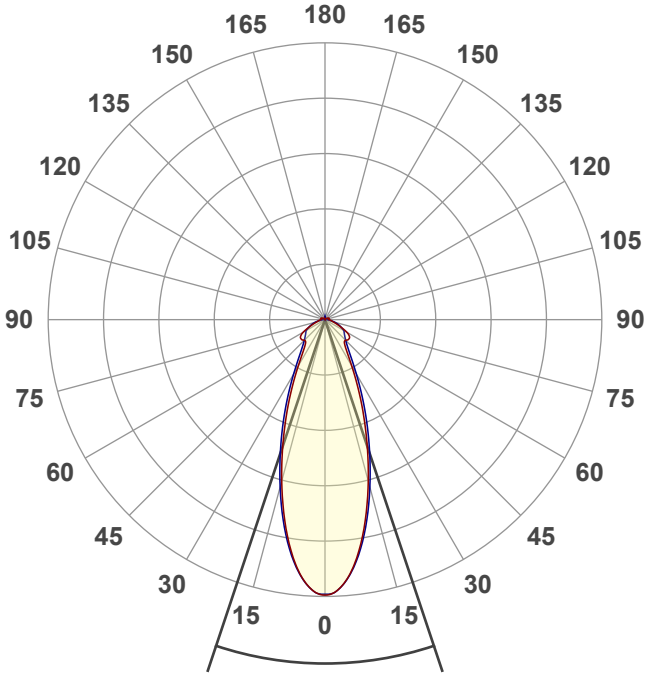
Conditions

AC Supply: 121 V, 60 Hz
Power: 24.62 W
Current: 0.203 A
Power Factor: 0.97

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 4/26/2021 to LM-63-2002 Standards.

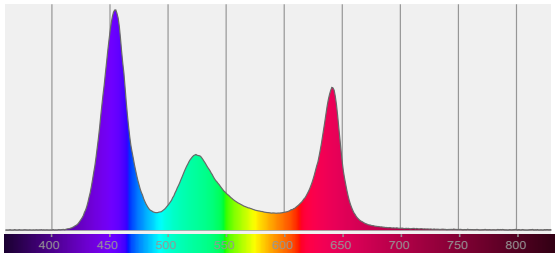
Overall Measurement

Angular Beam Distribution

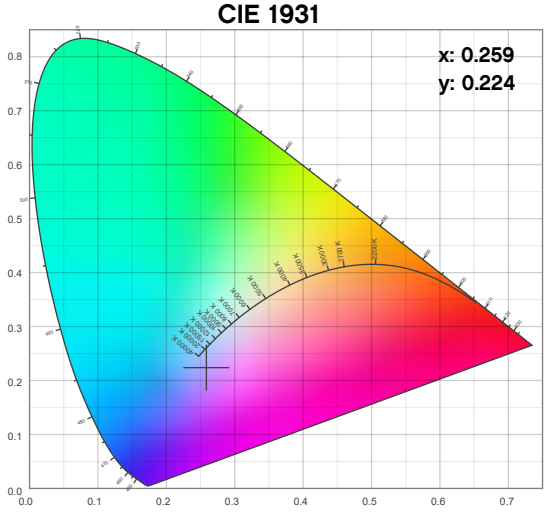


Beam Angle 36.9°

Spectral Distribution



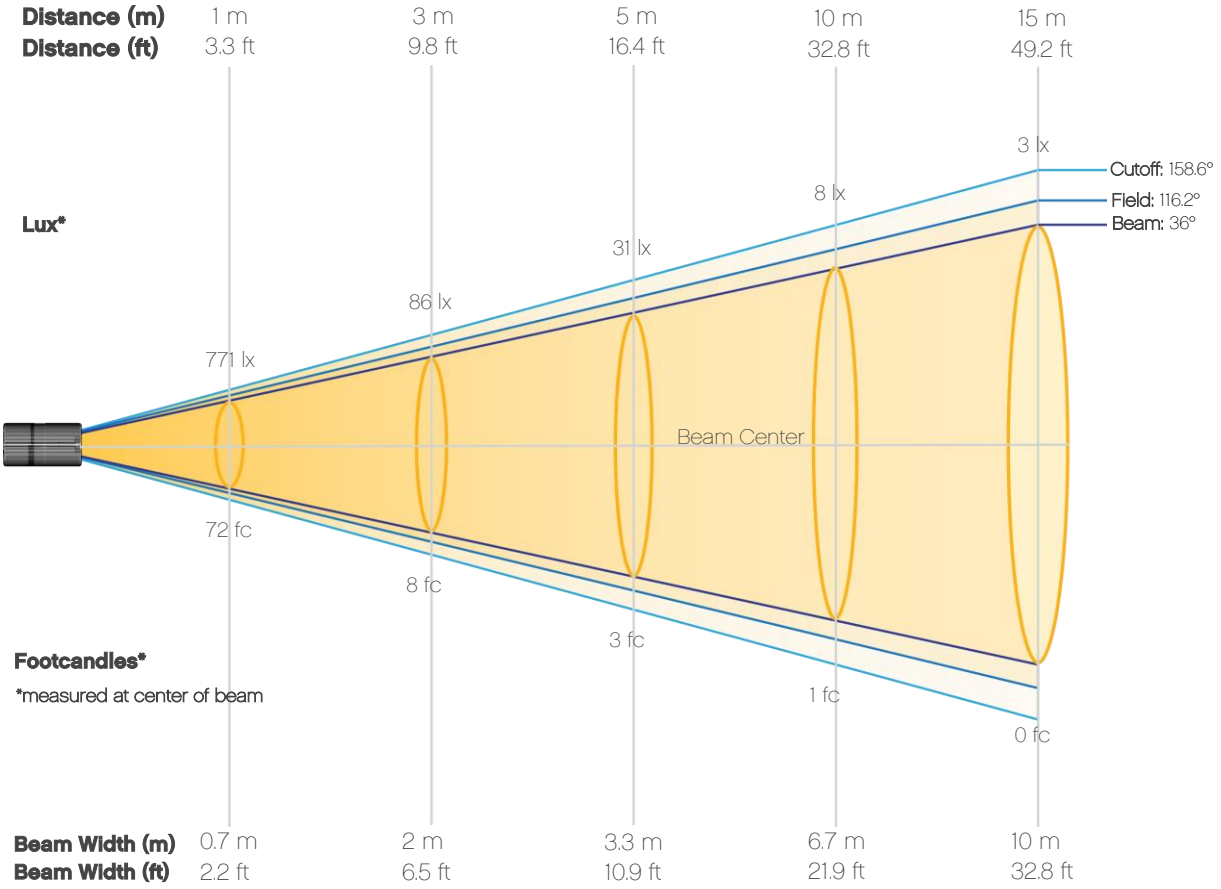
CIE 1931



Photometric Report

Ilumiline SL: Accessory Optics - Wide Filter, Full Power

Beam Details



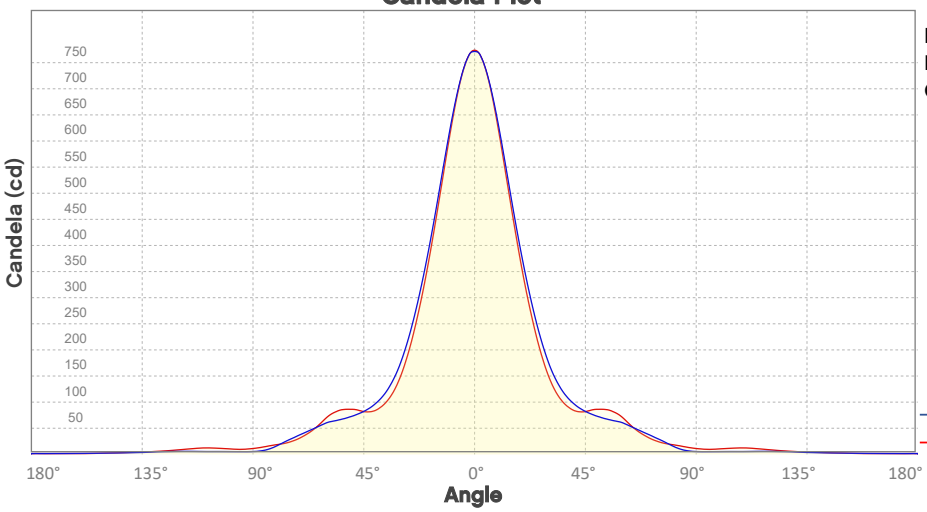
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	771	193	86	48	31	21	16	12	10	8
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	6	5	5	4	3	3	3	2	2	2
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	72	18	8	4	3	2	1	1	1	1
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	1	0	0	0	0	0	0	0	0	0

Photometric Report

Ilumiline SL: Accessory Optics - Wide Filter, Full Power

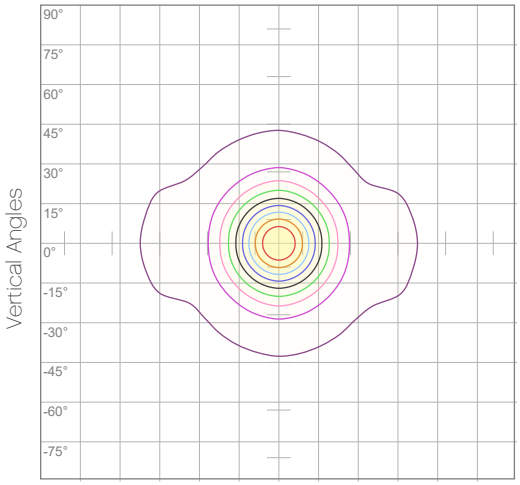
Candela Plot



Beam Angle (50%): 36.9°
Field Angle (10%): 97.6°
Cutoff Angle (3%): 159°

Vertical Distribution
Horizontal Distribution

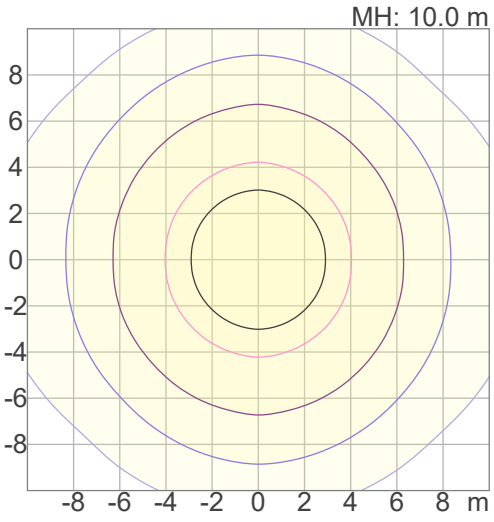
Polar Diagrams



iso-candela Diagram

10%	77 cd
20%	154 cd
30%	231 cd
40%	308 cd
50%	386 cd
60%	463 cd
70%	540 cd
80%	617 cd
90%	694 cd

Conditions:
Number of c-planes: 8
Candela at center: 771 cd



iso-illuminance Diagram

3%	0.231 lx
5%	0.386 lx
10%	0.771 lx
30%	2.31 lx
50%	3.86 lx

Conditions:
Number of c-planes: 8
Lux at center: 7.71 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ilumiline SL: Accessory Optics - Very Wide Filter, Full Power

Report Summary

Output
Total Lumens: 635 lm
Peak Intensity: 616 cd
Illuminance @ 5m: 25 lux
Fixture Efficacy: 26 lm/W

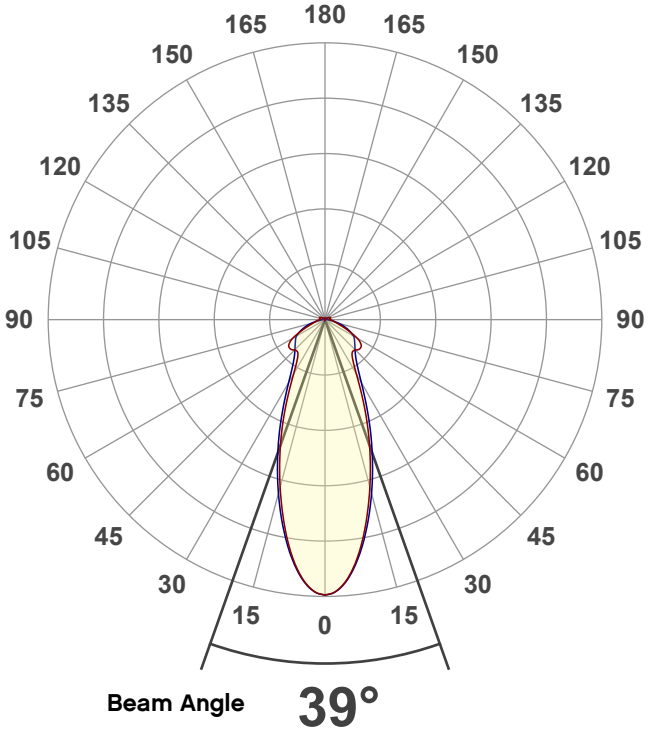
Optical
Horizontal Beam Angle (50%): 38.1°
Vertical Beam Angle (50%): 40°
Horizontal Field Angle (10%): 128.1°
Vertical Field Angle (10%): 129.6°
Horizontal Cutoff Angle (3%): 169.7°
Vertical Cutoff Angle (3%): 162.4°

Conditions
AC Supply: 121 V, 60 Hz
Power: 24.75 W
Current: 0.204 A
Power Factor: 0.97

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 4/26/2021 to LM-63-2002 Standards.

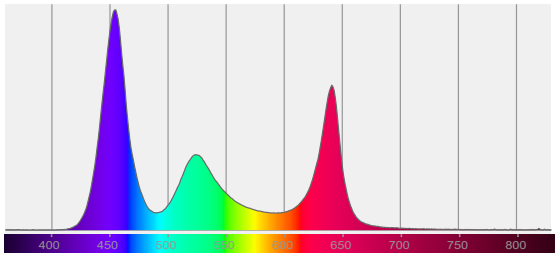
Overall Measurement

Angular Beam Distribution

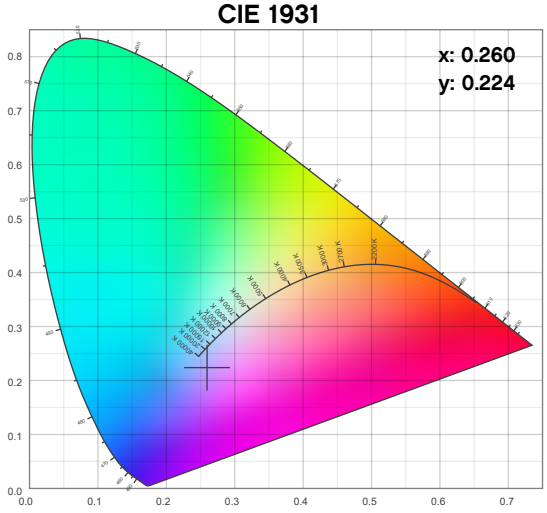


Beam Angle 39°

Spectral Distribution



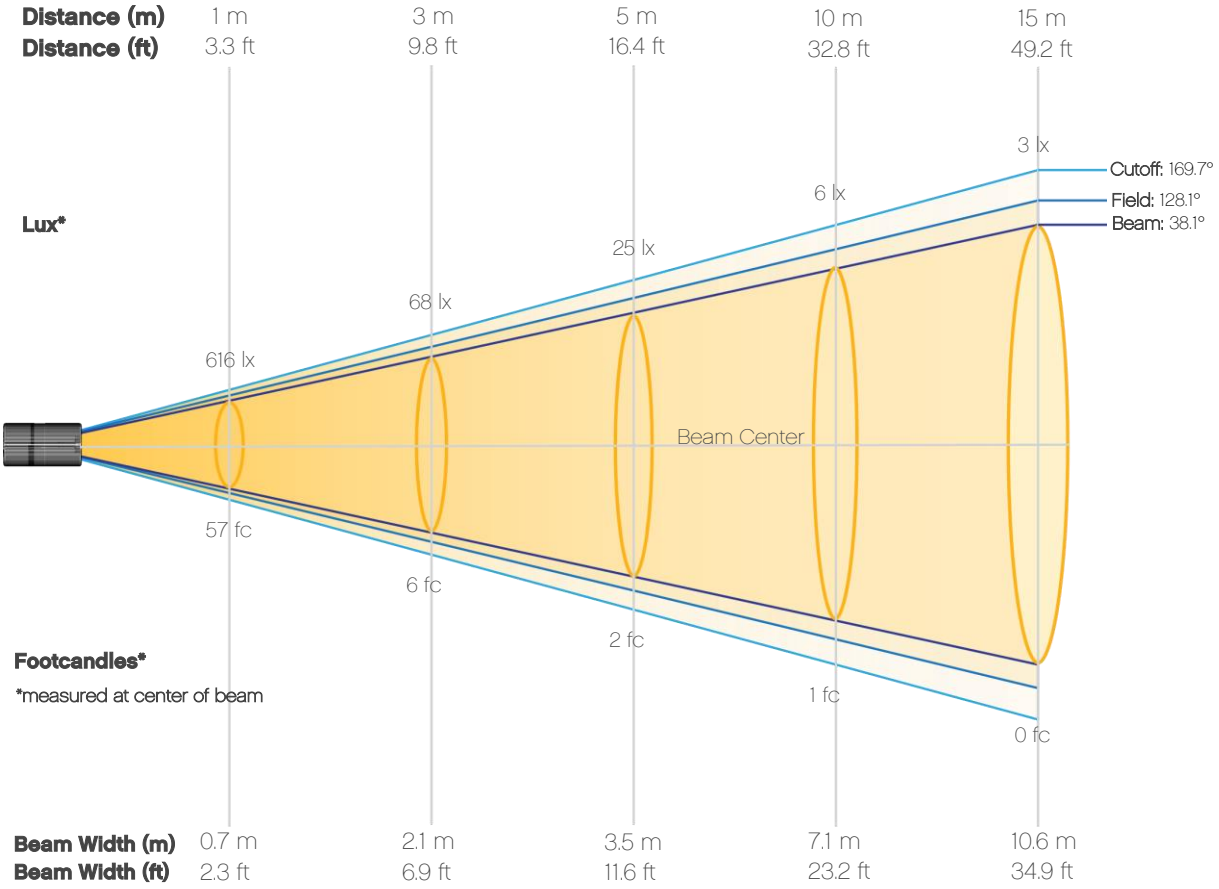
CIE 1931



Photometric Report

Ilumiline SL: Accessory Optics - Very Wide Filter, Full Power

Beam Details

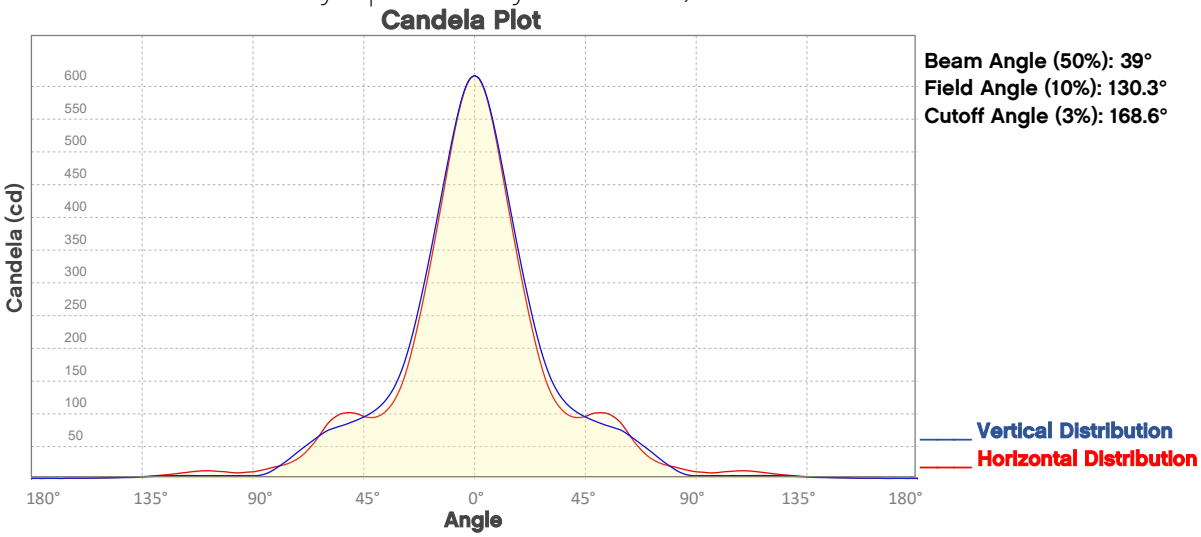


Beam Iluminances from 1-20m (3.3-65.6ft)

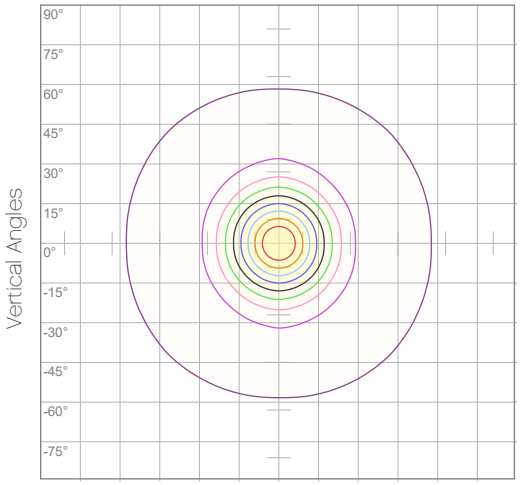
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	616	154	68	38	25	17	13	10	8	6
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	5	4	4	3	3	2	2	2	2	2
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	57	14	6	4	2	2	1	1	1	1
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	0	0	0	0	0	0	0	0	0	0

Photometric Report

Ilumiline SL: Accessory Optics - Very Wide Filter, Full Power



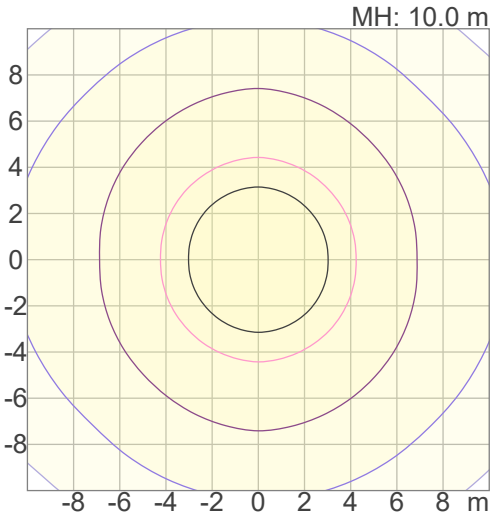
Polar Diagrams



iso-candela Diagram

10%	62 cd
20%	123 cd
30%	185 cd
40%	246 cd
50%	308 cd
60%	370 cd
70%	431 cd
80%	493 cd
90%	554 cd

Conditions:
Number of c-planes: 8
Candela at center: 616 cd



iso-illuminance Diagram

3%	0.185 lx
5%	0.308 lx
10%	0.616 lx
30%	1.85 lx
50%	3.08 lx

Conditions:
Number of c-planes: 8
Lux at center: 6.16 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ilumiline SL: Accessory Optics - Asymmetrical Filter, Full Power

Report Summary

Output

Total Lumens: 574 lm
Peak Intensity: 1316 cd
Illuminance @ 5m: 53 lux
Fixture Efficacy: 30 lm/W

Optical

Horizontal Beam Angle (50%): 38.5°
Vertical Beam Angle (50%): 18.9°
Horizontal Field Angle (10%): 77.6°
Vertical Field Angle (10%): 45.1°
Horizontal Cutoff Angle (3%): 157.1°
Vertical Cutoff Angle (3%): 114.3°

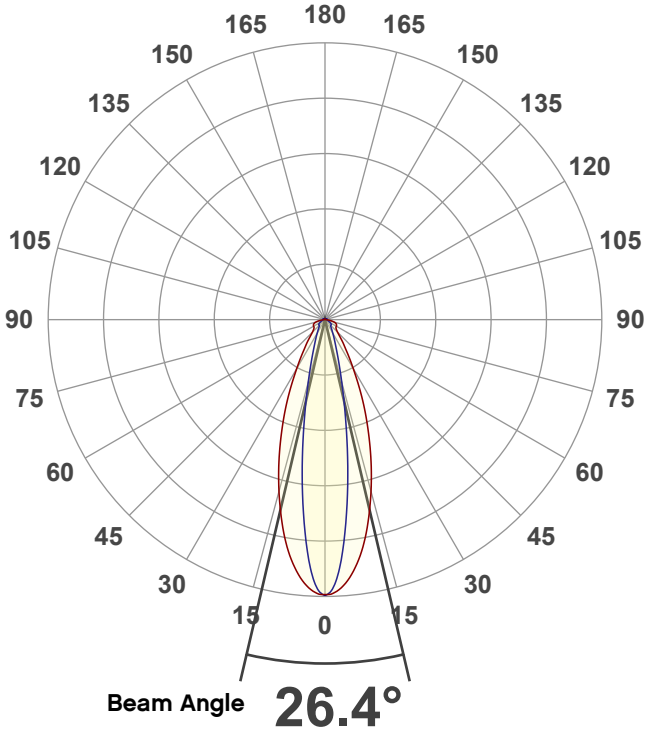
Conditions

AC Supply: 120 V, 60 Hz
Power: 19.54 W
Current: 0.163 A
Power Factor: 0.97

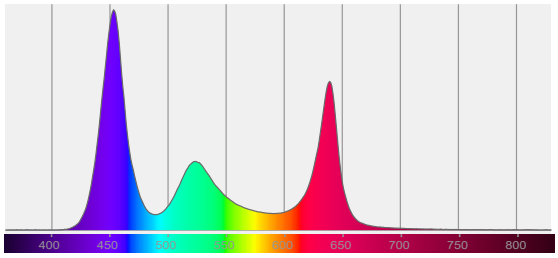
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/19/2021 to LM-63-2002 Standards.

Overall Measurement

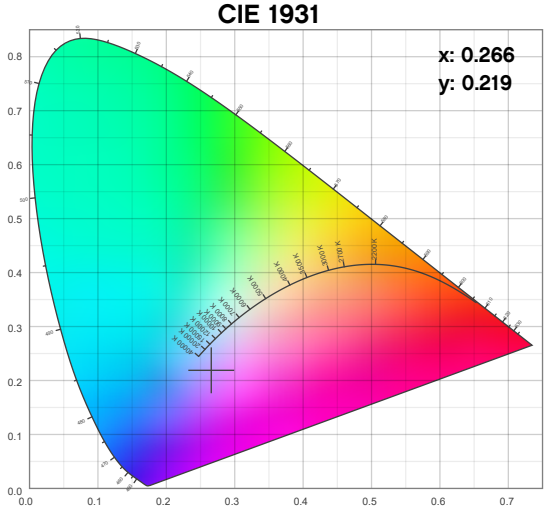
Angular Beam Distribution



Spectral Distribution



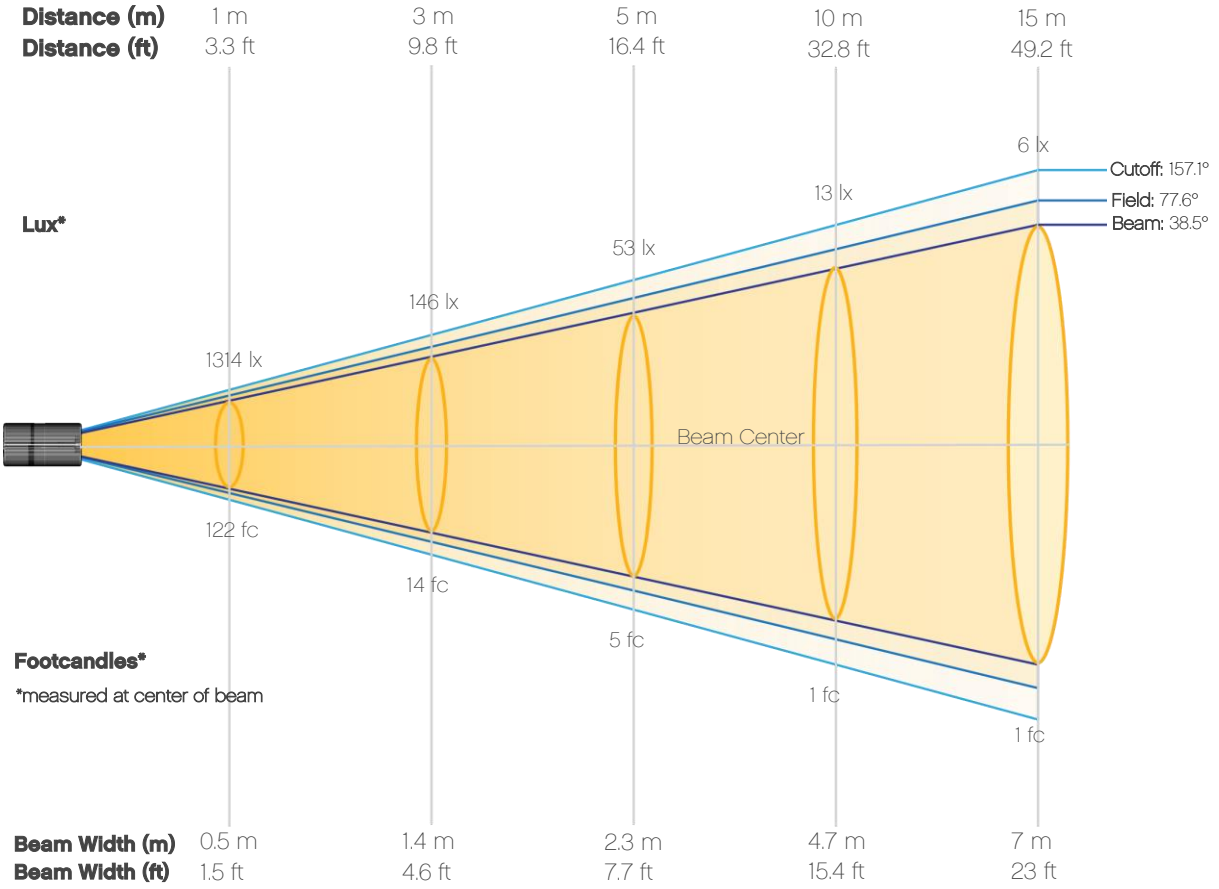
CIE 1931



Photometric Report

Ilumiline SL: Accessory Optics - Asymmetrical Filter, Full Power

Beam Details

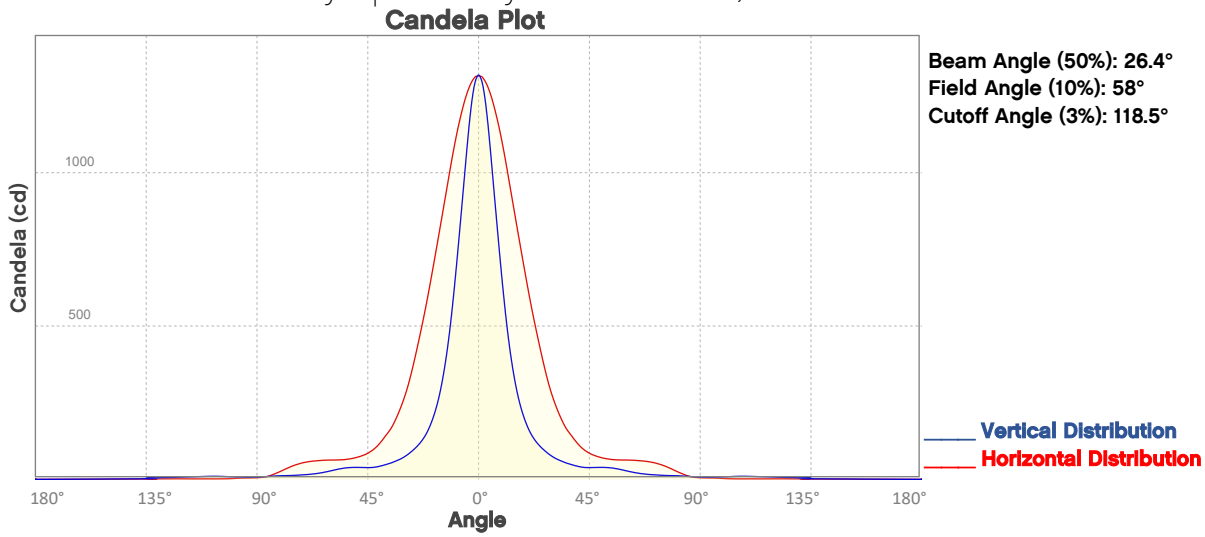


Beam Iluminances from 1-20m (3.3-65.6ft)

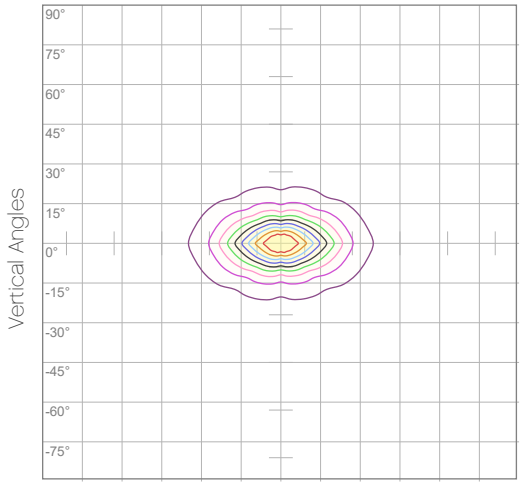
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1314	328	146	82	53	36	27	21	16	13
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	11	9	8	7	6	5	5	4	4	3
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	122	31	14	8	5	3	2	2	2	1
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	1	1	1	1	1	0	0	0	0	0

Photometric Report

Ilumiline SL: Accessory Optics - Asymmetrical Filter, Full Power



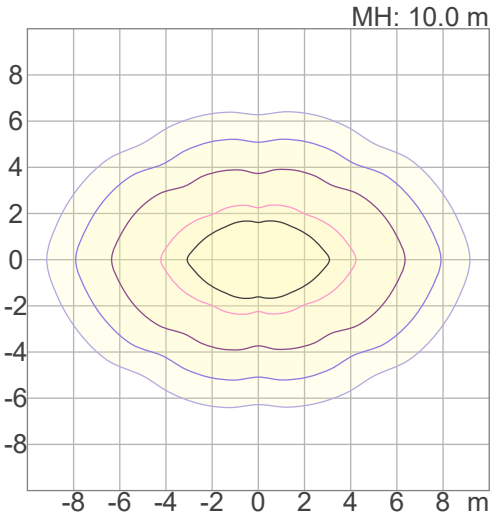
Polar Diagrams



iso-candela Diagram

10%	131 cd
20%	263 cd
30%	394 cd
40%	526 cd
50%	657 cd
60%	788 cd
70%	920 cd
80%	1051 cd
90%	1183 cd

Conditions:
Number of c-planes: 8
Candela at center: 1314 cd



iso-illuminance Diagram

3%	0.394 lx
5%	0.657 lx
10%	1.31 lx
30%	3.94 lx
50%	6.57 lx

Conditions:
Number of c-planes: 8
Lux at center: 13.1 lx

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

Mounting height: 10 meters / 33 feet

Contact Us

General Information	Technical Support
Chauvet World Headquarters	
5200 NW 108th 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
Chauvet Europe Ltd	
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
Chauvet Europe BVBA	
Stokstraat 18 9770 Kruishoutem, Belgium Voice: +32 (9) 388 93 97	Email: BNLtech@chauvetlighting.eu Website: www.chauvetprofessional.eu
Chauvet France	
3, Rue Ampère 91380 Chilly-Mazarin, France Voice: +33 1 78 85 33 59	Email: FRtech@chauvetlighting.fr Website: www.chauvetprofessional.eu
Chauvet Germany	
Bruno-Bürgel-Str. 11 28759 Bremen, Germany Voice: +49 421 62 60 20	Email: DEtech@chauvetlighting.de Website: www.chauvetprofessional.eu
Chauvet 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.