PHOTOMETRICS REPORT

ILUMI**PANEL** ML

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

Ilumipanel ML: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 7045 lm
Peak Intensity: 273555 cd
Illuminance @ 5m: 10926 lux
Fixture Efficacy: 38 lm/W

Optical

Horizontal Beam Angle (50%): 6.5°
Vertical Beam Angle (50%): 7.3°
Horizontal Field Angle (10%): 11.6°
Vertical Field Angle (10%): 14.6°
Horizontal Cutoff Angle (3%): 19.9°
Vertical Cutoff Angle (3%): 27.2°

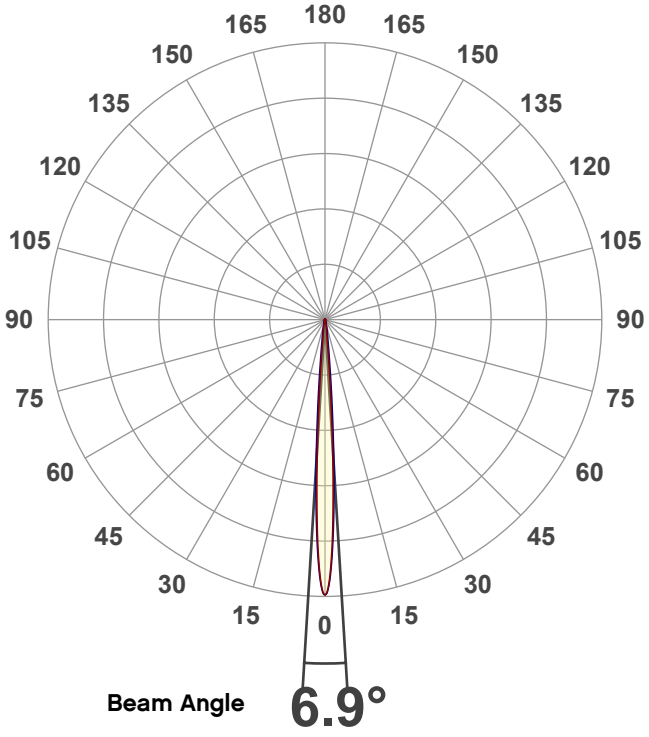
Conditions

AC Supply: 120 V, 60.1 Hz
Power: 189.04 W
Current: 1.57 A
Power Factor: 0.99

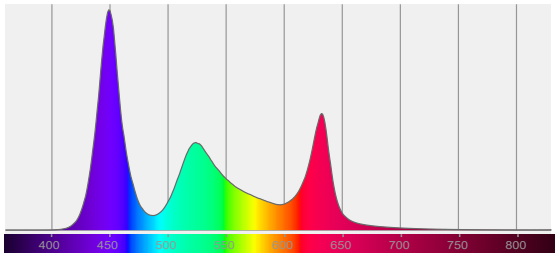
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/19/2021 to LM-63-2002 Standards.

Overall Measurement

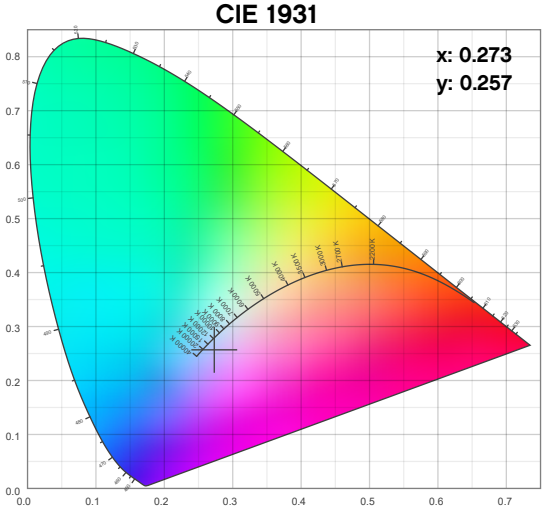
Angular Beam Distribution



Spectral Distribution



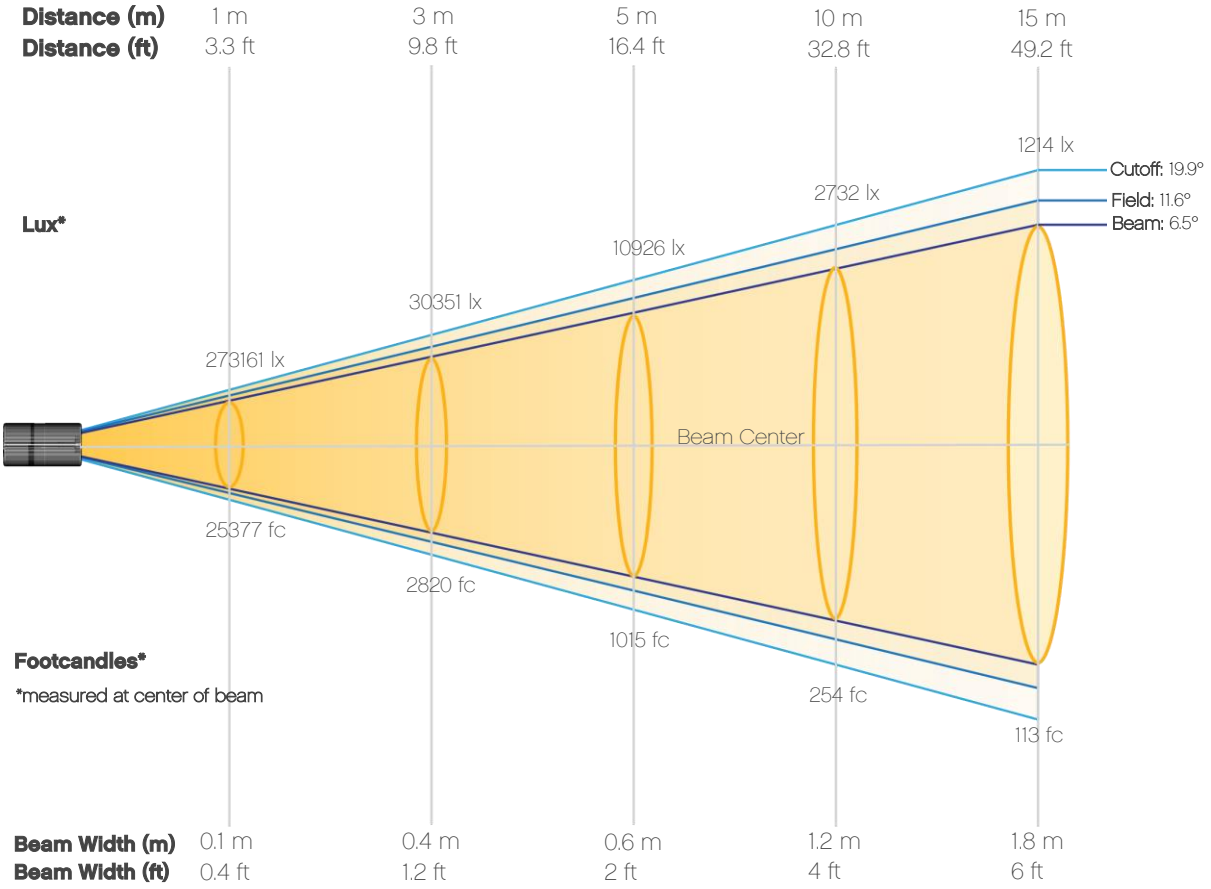
CIE 1931



Photometric Report

Ilumipanel ML: Standard Optics, Full Power

Beam Details



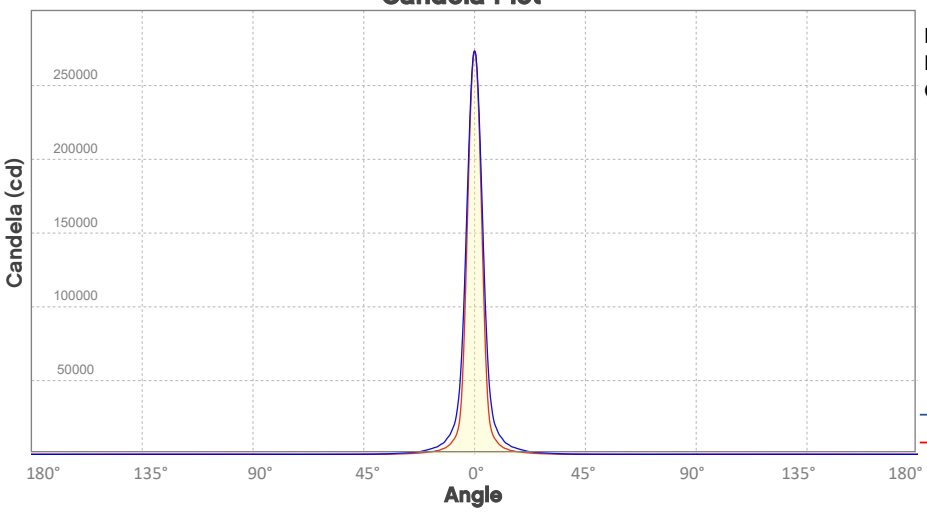
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	273161	68290	30351	17073	10926	7588	5575	4268	3372	2732
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2258	1897	1616	1394	1214	1067	945	843	757	683
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	25377	6344	2820	1586	1015	705	518	397	313	254
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	210	176	150	129	113	99	88	78	70	63

Photometric Report

Ilumipanel ML: Standard Optics, Full Power

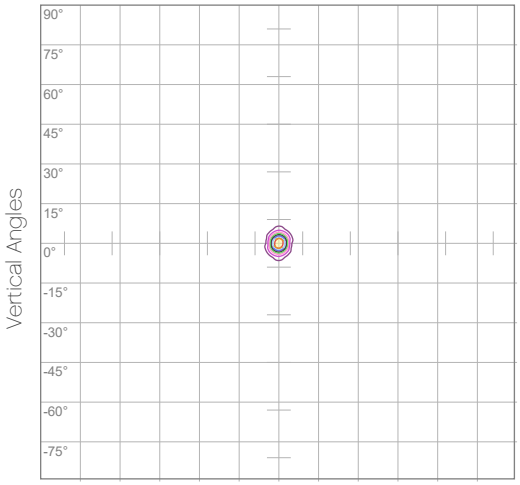
Candela Plot



Beam Angle (50%): 6.9°
Field Angle (10%): 12.9°
Cutoff Angle (3%): 22.5°

Vertical Distribution
Horizontal Distribution

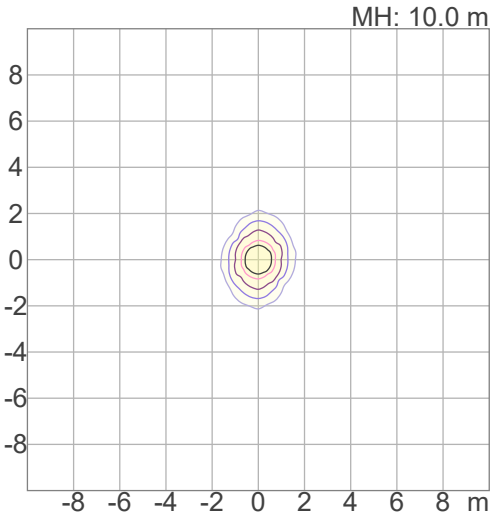
Polar Diagrams



iso-candela Diagram

10%	27316 cd
20%	54632 cd
30%	81948 cd
40%	109264 cd
50%	136581 cd
60%	163897 cd
70%	191213 cd
80%	218529 cd
90%	245845 cd

Conditions:
Number of c-planes: 8
Candela at center: 273161 cd



iso-illuminance Diagram

3%	81.9 lx
5%	137 lx
10%	273 lx
30%	819 lx
50%	1366 lx

Conditions:
Number of c-planes: 8
Lux at center: 2732 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ilumipanel ML: Accessory Optics - Medium Filter, Full Power

Report Summary

Output

Total Lumens: 6022 lm
Peak Intensity: 31186 cd
Illuminance @ 5m: 1244 lux
Fixture Efficacy: 32 lm/W

Optical

Horizontal Beam Angle (50%): 19.7°
Vertical Beam Angle (50%): 20.4°
Horizontal Field Angle (10%): 41.1°
Vertical Field Angle (10%): 41.5°
Horizontal Cutoff Angle (3%): 61.5°
Vertical Cutoff Angle (3%): 61.6°

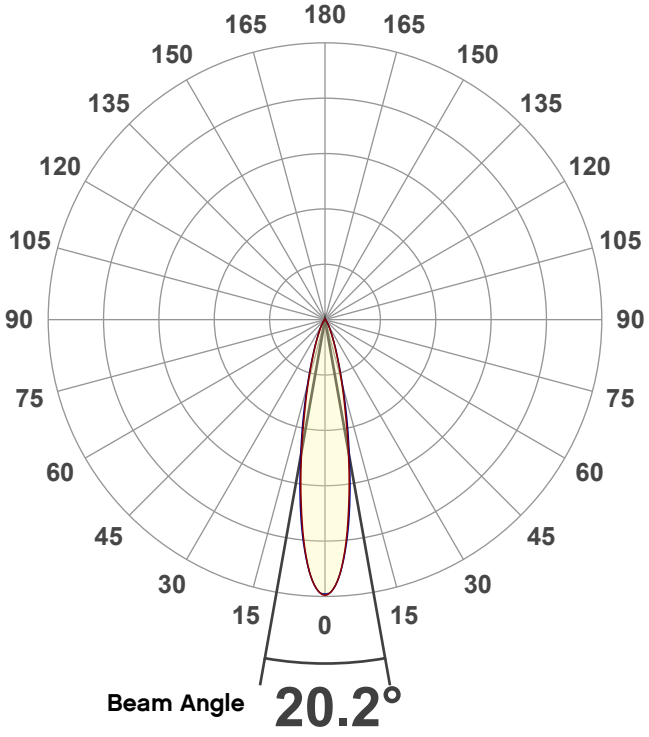
Conditions

AC Supply: 119 V, 60 Hz
Power: 188.25 W
Current: 1.58 A
Power Factor: 0.99

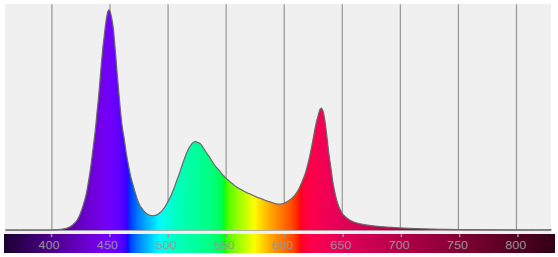
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/20/2021 to LM-63-2002 Standards.

Overall Measurement

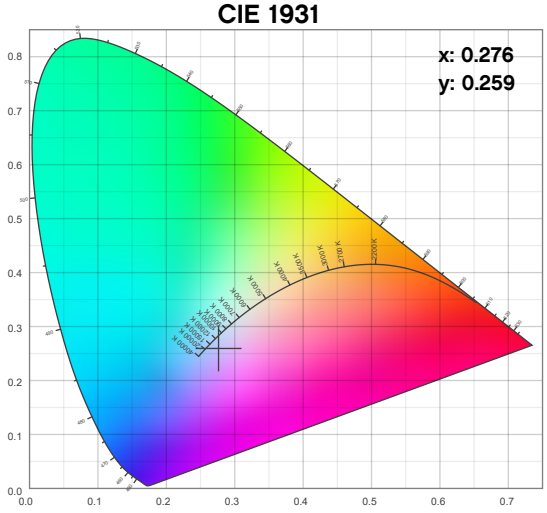
Angular Beam Distribution



Spectral Distribution



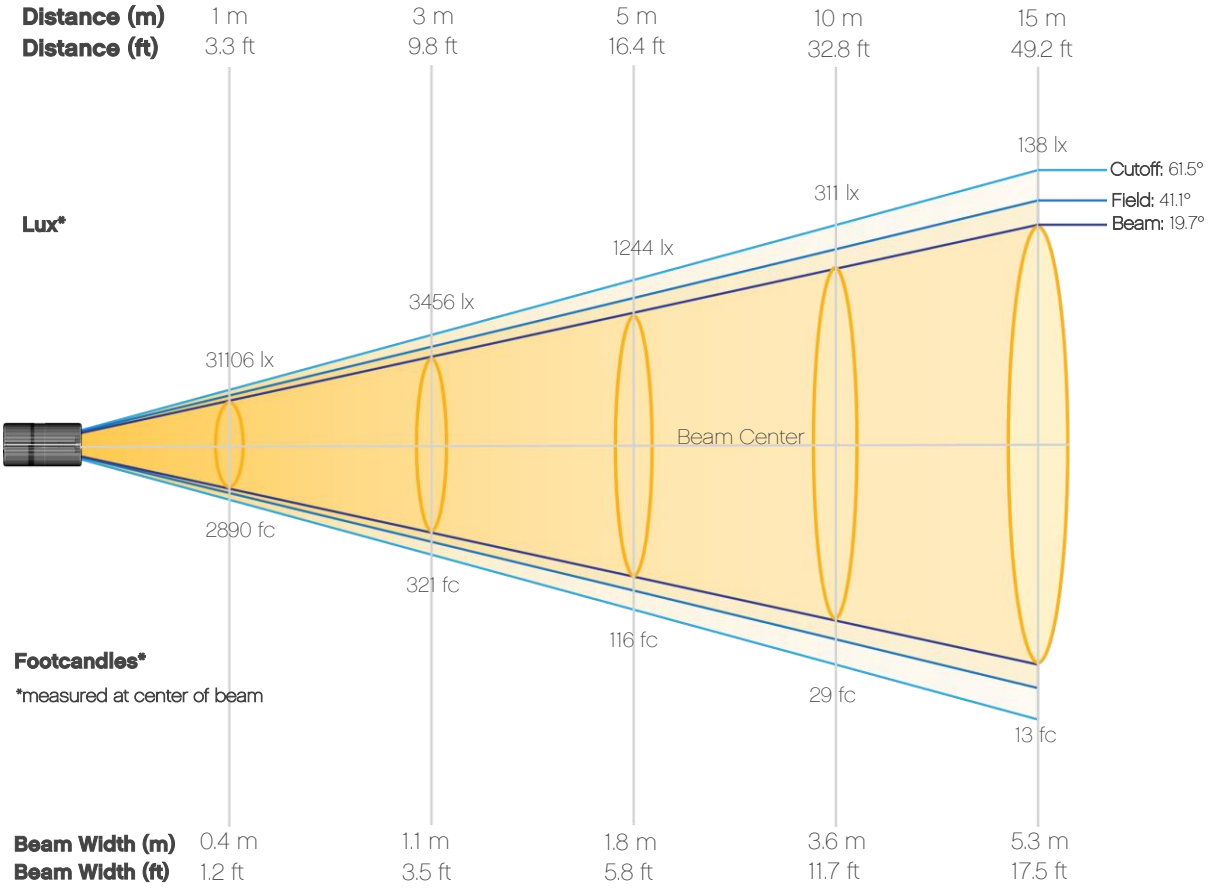
CIE 1931



Photometric Report

Ilumipanel ML: Accessory Optics - Medium Filter, Full Power

Beam Details



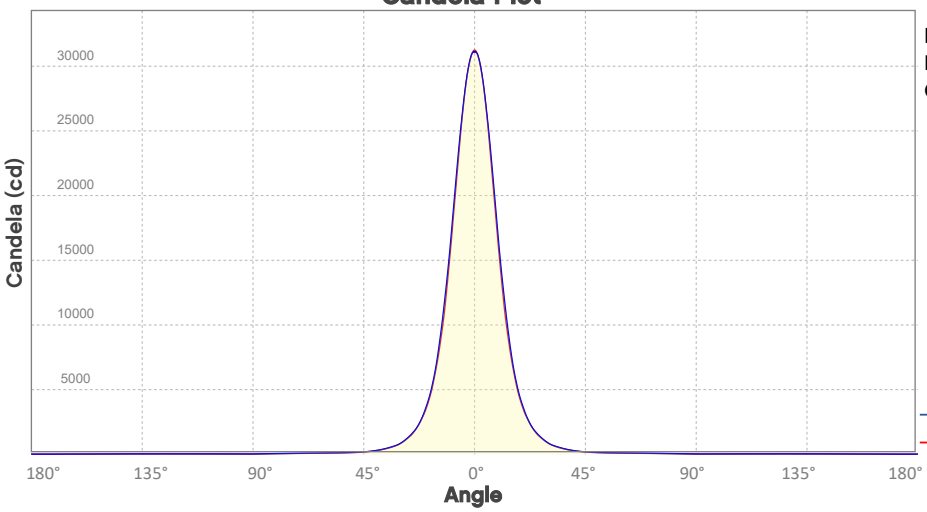
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	31106	7776	3456	1944	1244	864	635	486	384	311
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	257	216	184	159	138	122	108	96	86	78
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2890	722	321	181	116	80	59	45	36	29
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	24	20	17	15	13	11	10	9	8	7

Photometric Report

Ilumipanel ML: Accessory Optics - Medium Filter, Full Power

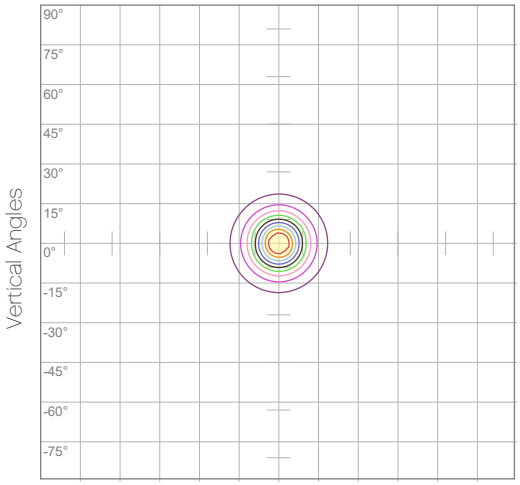
Candela Plot



Beam Angle (50%): 20.2°
Field Angle (10%): 41.3°
Cutoff Angle (3%): 61.5°

Vertical Distribution
Horizontal Distribution

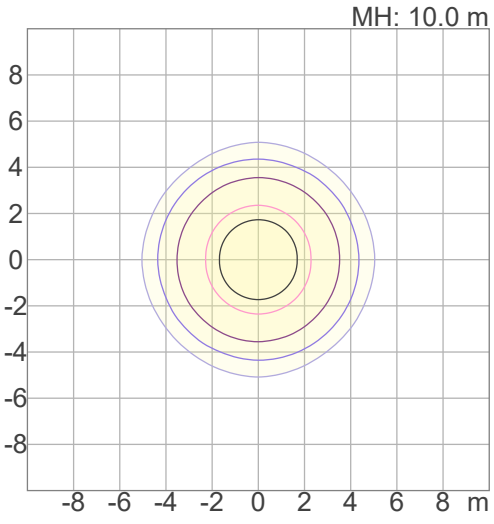
Polar Diagrams



iso-candela Diagram

10%	3111 cd
20%	6221 cd
30%	9332 cd
40%	12442 cd
50%	15553 cd
60%	18664 cd
70%	21774 cd
80%	24885 cd
90%	27995 cd

Conditions:
Number of c-planes: 8
Candela at center: 31106 cd



iso-illuminance Diagram

3%	9.33 lx
5%	15.6 lx
10%	31.1 lx
30%	93.3 lx
50%	156 lx

Conditions:
Number of c-planes: 8
Lux at center: 311 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ilumipanel ML: Accessory Optics - Wide Filter, Full Power

Report Summary

Output

Total Lumens: 5086 lm
Peak Intensity: 8778 cd
Illuminance @ 5m: 350 lux
Fixture Efficacy: 28 lm/W

Optical

Horizontal Beam Angle (50%): 32.8°
Vertical Beam Angle (50%): 32.4°
Horizontal Field Angle (10%): 65.7°
Vertical Field Angle (10%): 65.3°
Horizontal Cutoff Angle (3%): 162.1°
Vertical Cutoff Angle (3%): 159.2°

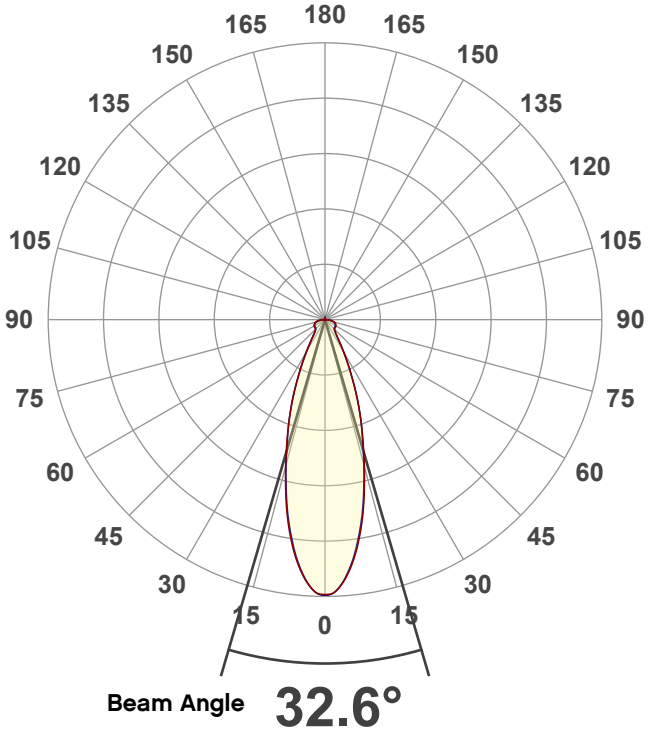
Conditions

AC Supply: 119 V, 60 Hz
Power: 185.93 W
Current: 1.56 A
Power Factor: 0.99

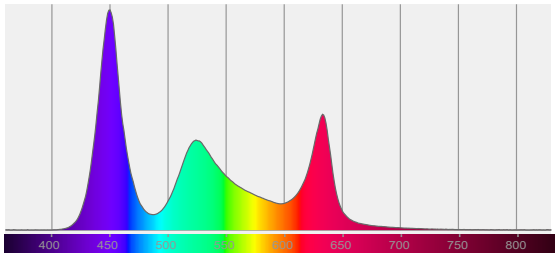
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/20/2021 to LM-63-2002 Standards.

Overall Measurement

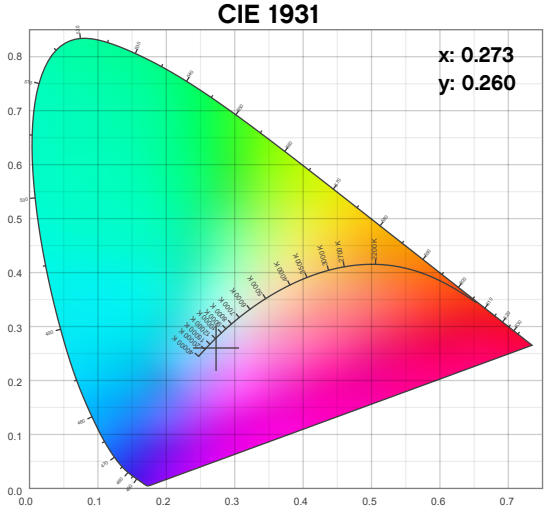
Angular Beam Distribution



Spectral Distribution



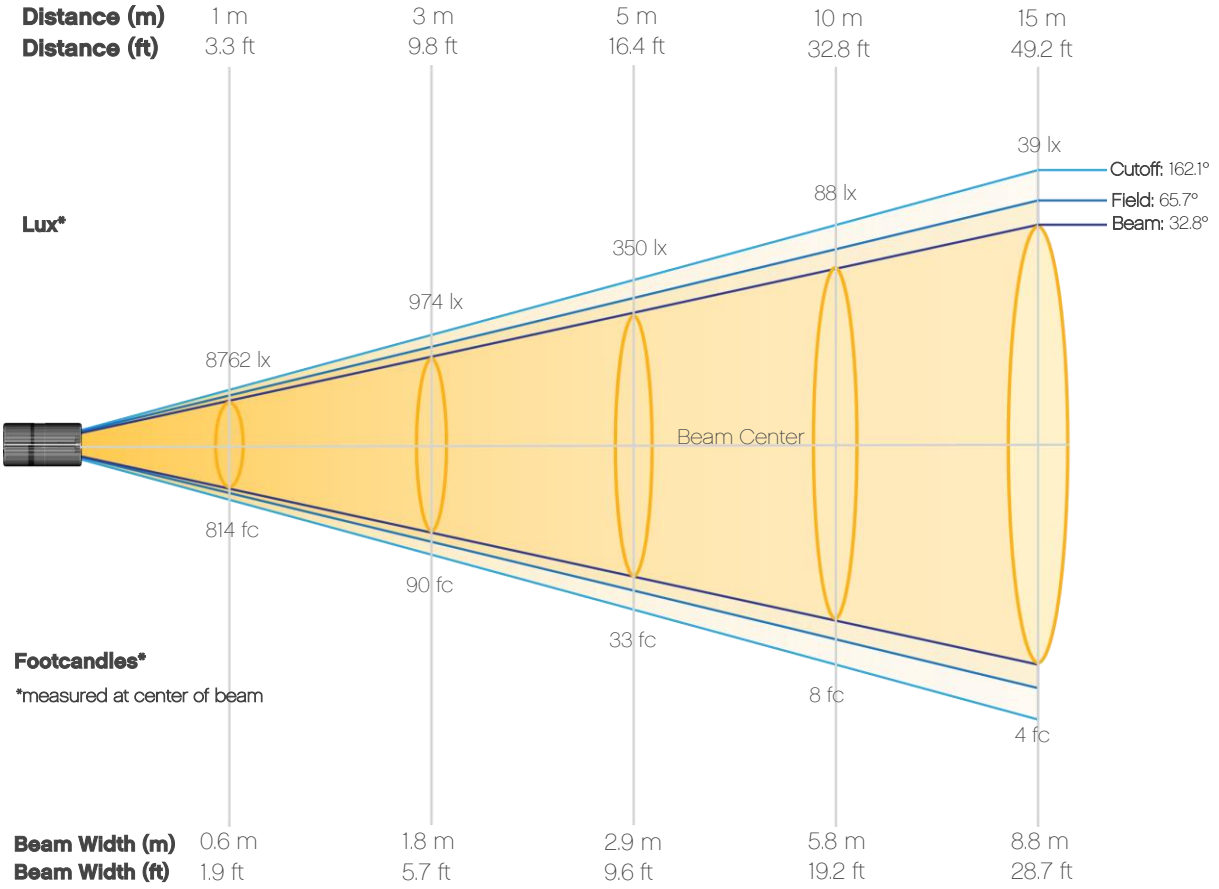
CIE 1931



Photometric Report

Ilumipanel ML: Accessory Optics - Wide Filter, Full Power

Beam Details



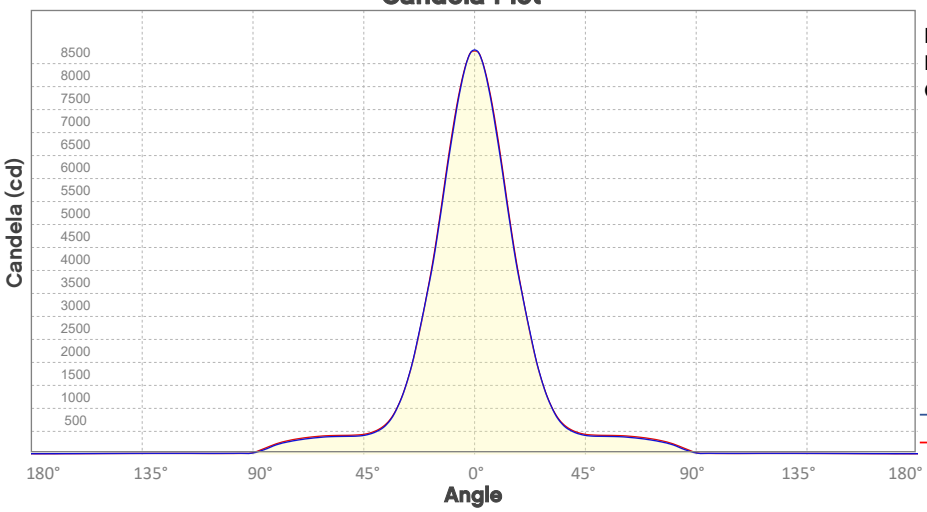
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	8762	2191	974	548	350	243	179	137	108	88
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	72	61	52	45	39	34	30	27	24	22
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	814	204	90	51	33	23	17	13	10	8
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	7	6	5	4	4	3	3	3	2	2

Photometric Report

Ilumipanel ML: Accessory Optics - Wide Filter, Full Power

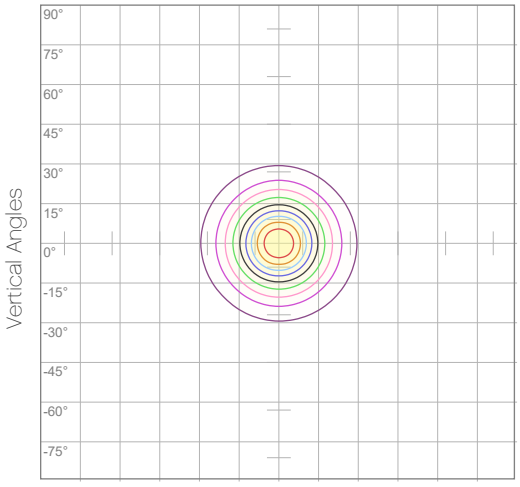
Candela Plot



Beam Angle (50%): 32.6°
Field Angle (10%): 65.3°
Cutoff Angle (3%): 160.4°

Vertical Distribution
Horizontal Distribution

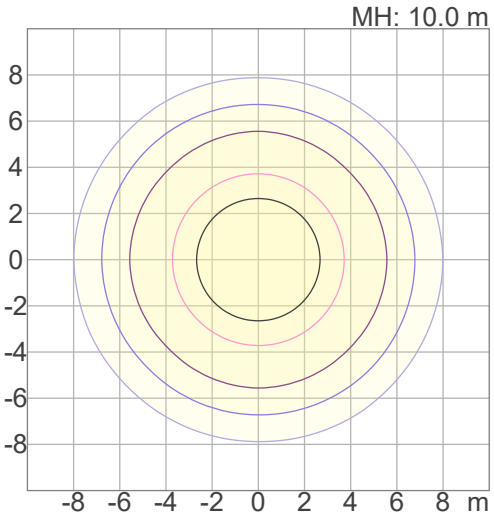
Polar Diagrams



iso-candela Diagram

10%	876 cd
20%	1752 cd
30%	2629 cd
40%	3505 cd
50%	4381 cd
60%	5257 cd
70%	6134 cd
80%	7010 cd
90%	7886 cd

Conditions:
Number of c-planes: 8
Candela at center: 8762 cd



iso-illuminance Diagram

3%	2.63 lx
5%	4.38 lx
10%	8.76 lx
30%	26.3 lx
50%	43.8 lx

Conditions:
Number of c-planes: 8
Lux at center: 87.6 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ilumipanel ML: Accessory Optics - Very Wide Filter, Full Power

Report Summary

Output

Total Lumens: 5006 lm
Peak Intensity: 6686 cd
Illuminance @ 5m: 266 lux
Fixture Efficacy: 27 lm/W

Optical

Horizontal Beam Angle (50%): 33.5°
Vertical Beam Angle (50%): 33.9°
Horizontal Field Angle (10%): 73.6°
Vertical Field Angle (10%): 79.9°
Horizontal Cutoff Angle (3%): 168.7°
Vertical Cutoff Angle (3%): 169°

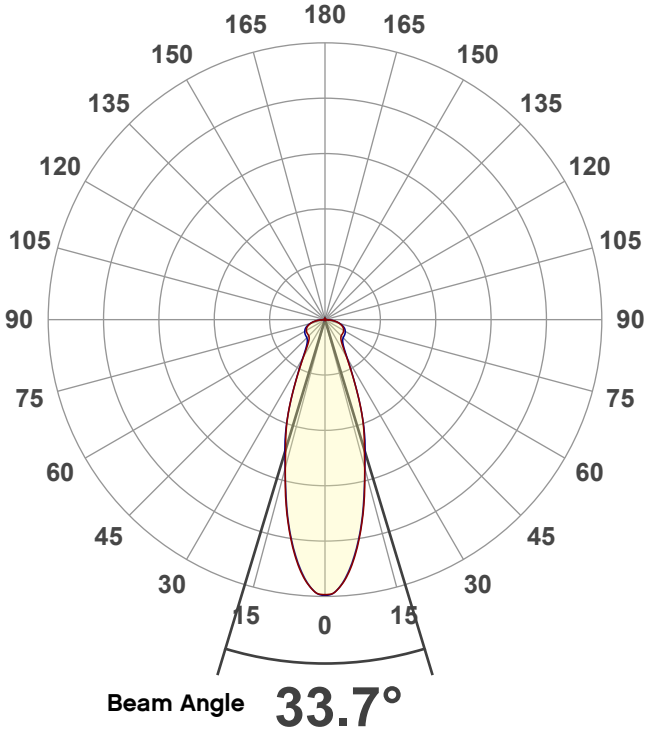
Conditions

AC Supply: 119 V, 60 Hz
Power: 186.69 W
Current: 1.57 A
Power Factor: 0.99

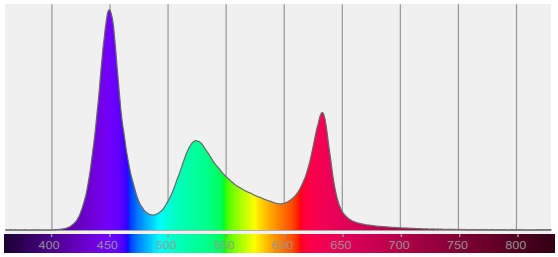
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/20/2021 to LM-63-2002 Standards.

Overall Measurement

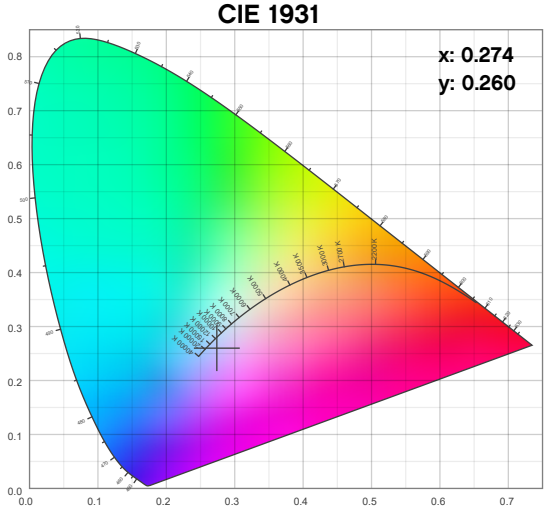
Angular Beam Distribution



Spectral Distribution



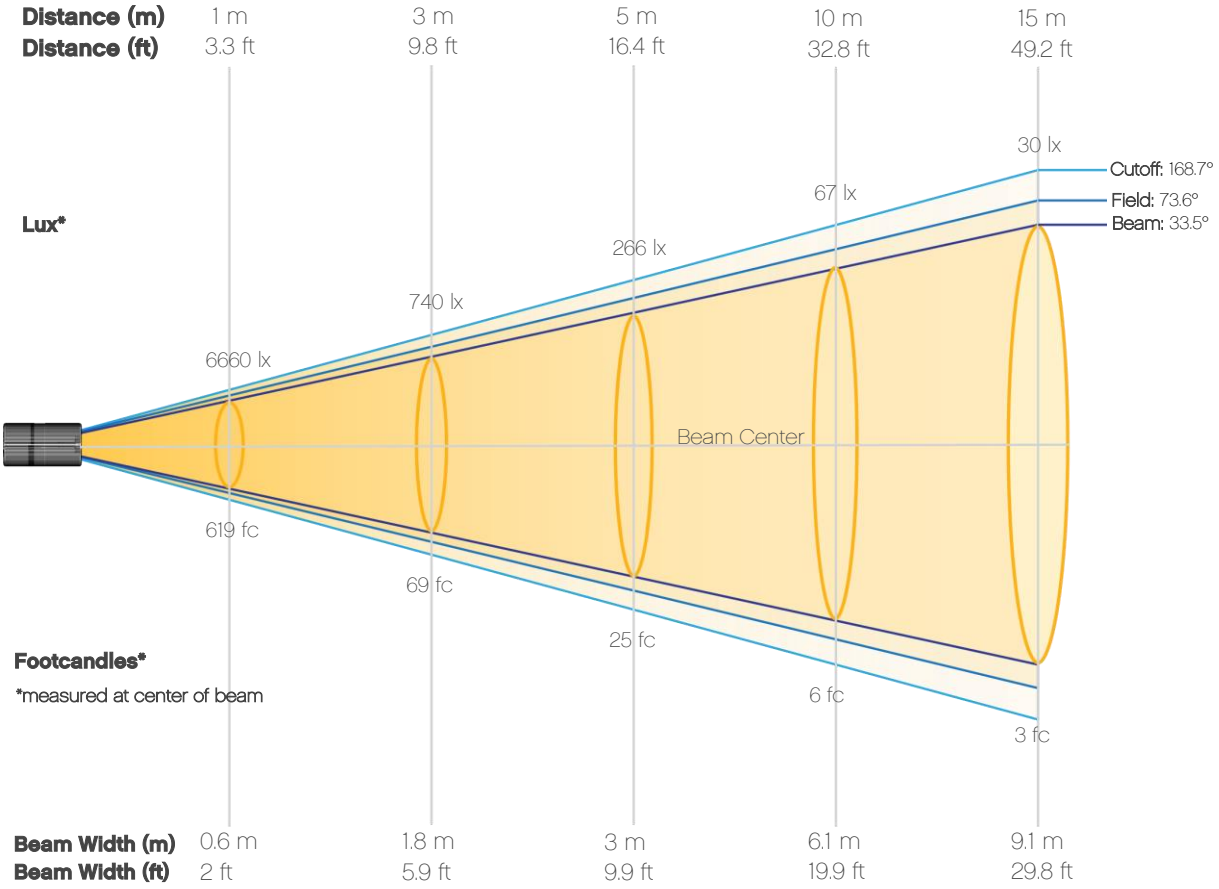
CIE 1931



Photometric Report

Ilumipanel ML: Accessory Optics - Very Wide Filter, Full Power

Beam Details



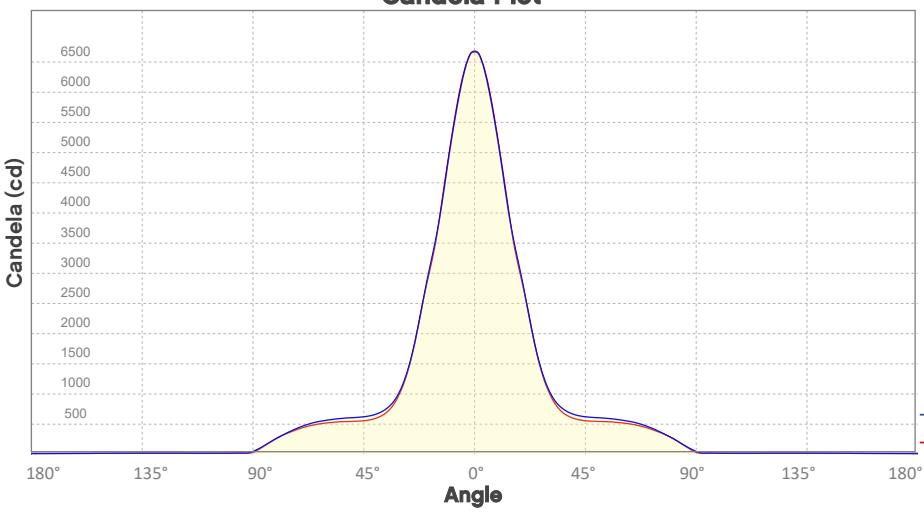
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	6660	1665	740	416	266	185	136	104	82	67
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	55	46	39	34	30	26	23	21	18	17
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	619	155	69	39	25	17	13	10	8	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	4	3	3	2	2	2	2	2

Photometric Report

Ilumipanel ML: Accessory Optics - Very Wide Filter, Full Power

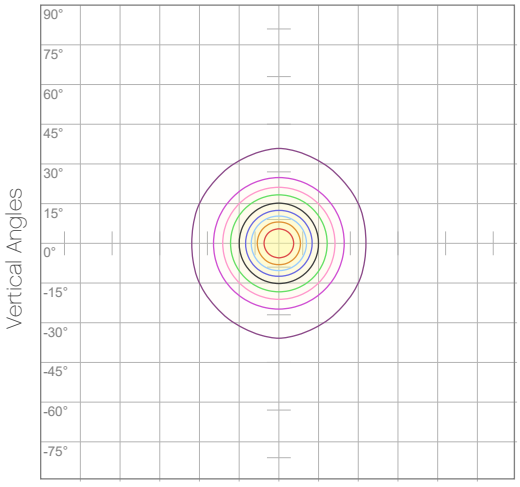
Candela Plot



Beam Angle (50%): 33.7°
Field Angle (10%): 76.1°
Cutoff Angle (3%): 168.7°

Vertical Distribution
Horizontal Distribution

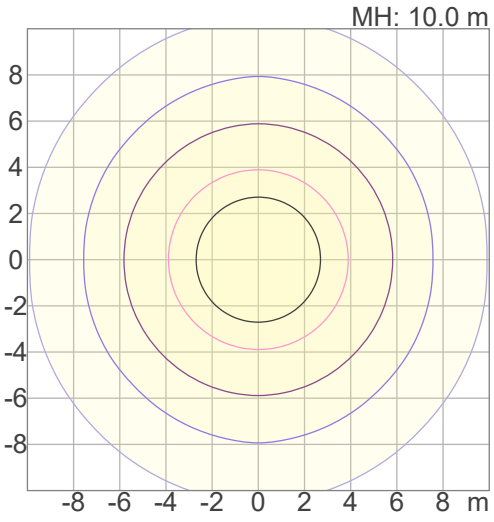
Polar Diagrams



iso-candela Diagram

	10%	666 cd
	20%	1332 cd
	30%	1998 cd
	40%	2664 cd
	50%	3330 cd
	60%	3996 cd
	70%	4662 cd
	80%	5328 cd
	90%	5994 cd

Conditions:
Number of c-planes: 8
Candela at center: 6660 cd



iso-illuminance Diagram

	3%	2.00 lx
	5%	3.33 lx
	10%	6.66 lx
	30%	20.0 lx
	50%	33.3 lx

Conditions:
Number of c-planes: 8
Lux at center: 66.6 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Ilumipanel ML: Accessory Optics - Asymmetrical Filter, Full Power

Report Summary

Output

Total Lumens: 5884 lm
Peak Intensity: 24207 cd
Illuminance @ 5m: 967 lux
Fixture Efficacy: 32 lm/W

Optical

Horizontal Beam Angle (50%): 34.9°
Vertical Beam Angle (50%): 11.8°
Horizontal Field Angle (10%): 66°
Vertical Field Angle (10%): 28.5°
Horizontal Cutoff Angle (3%): 162.4°
Vertical Cutoff Angle (3%): 51.2°

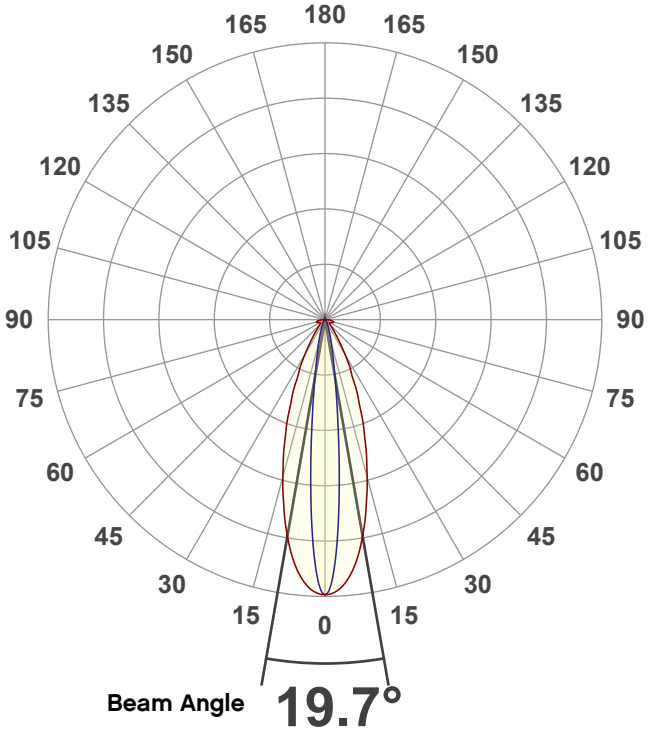
Conditions

AC Supply: 119 V, 60 Hz
Power: 187.0 W
Current: 1.57 A
Power Factor: 0.99

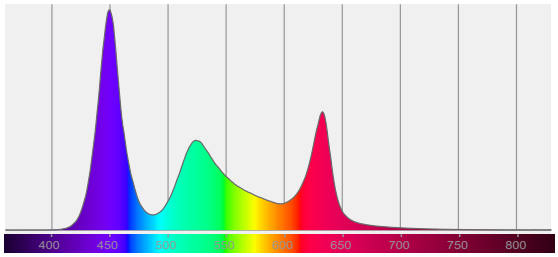
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 4/20/2021 to LM-63-2002 Standards.

Overall Measurement

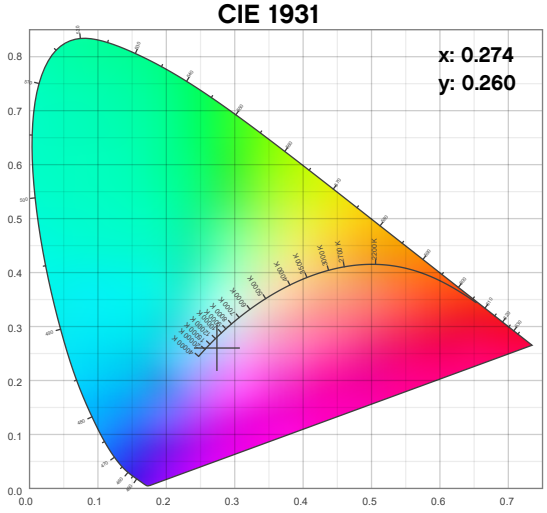
Angular Beam Distribution



Spectral Distribution



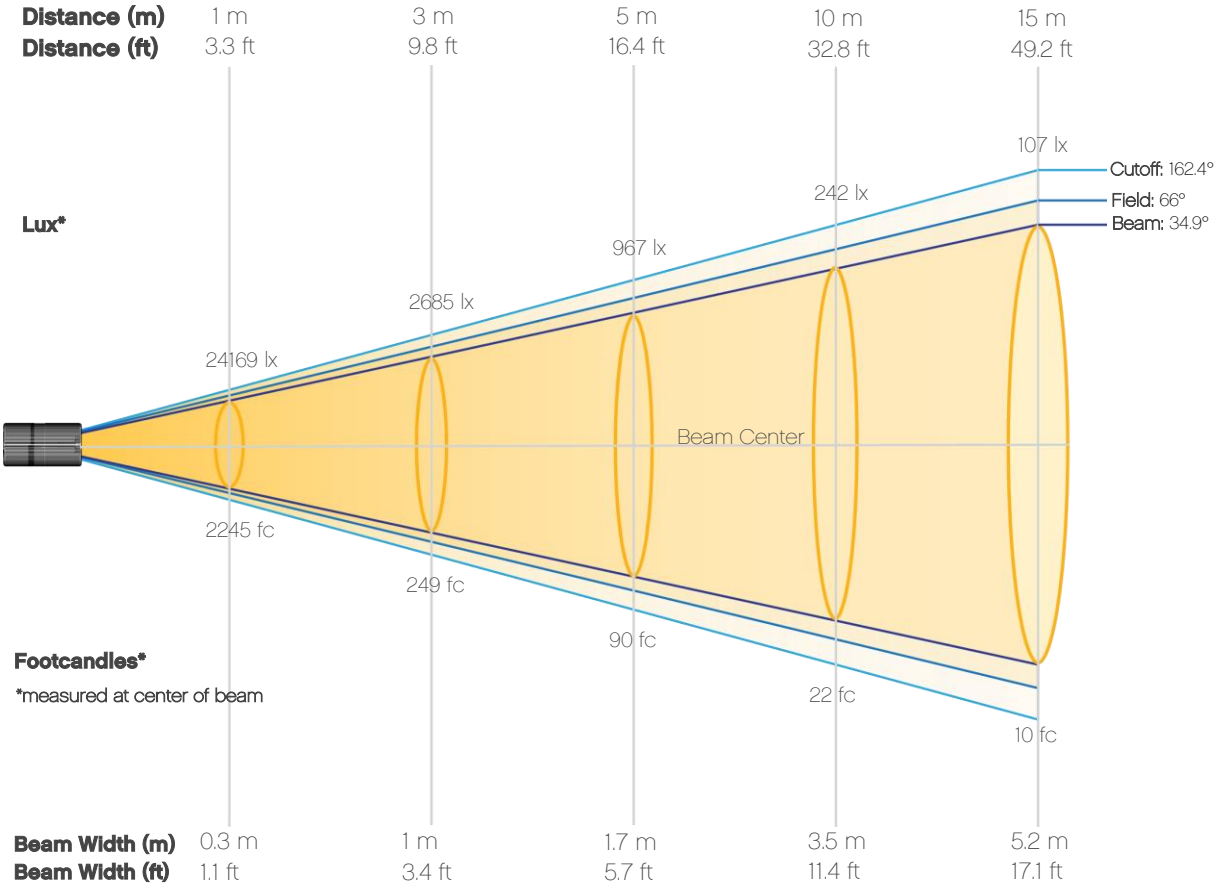
CIE 1931



Photometric Report

Ilumipanel ML: Accessory Optics - Asymmetrical Filter, Full Power

Beam Details

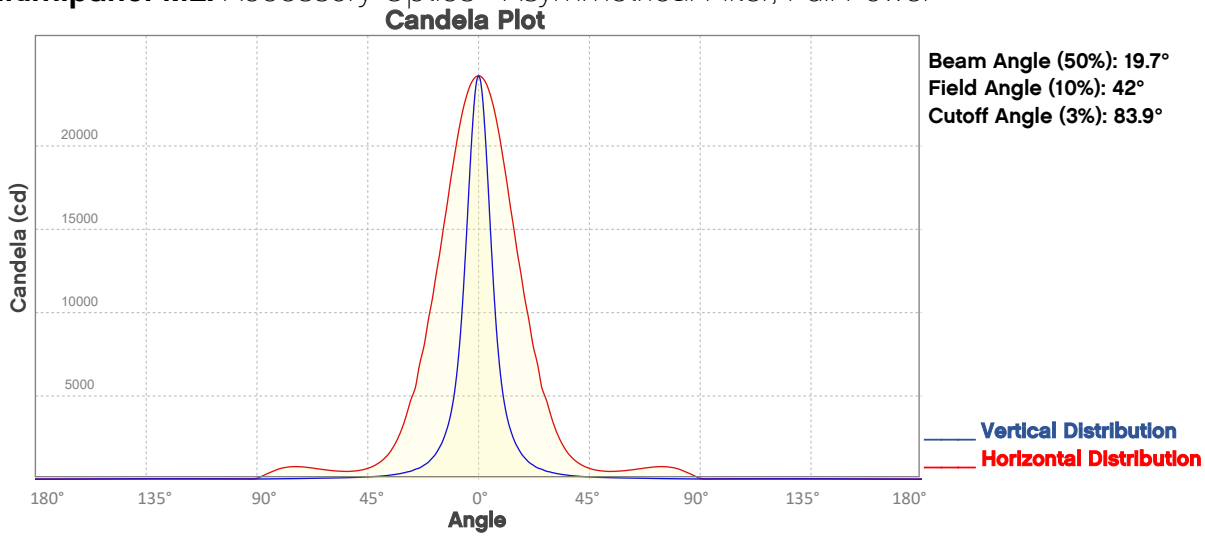


Beam Iluminances from 1-20m (3.3-65.6ft)

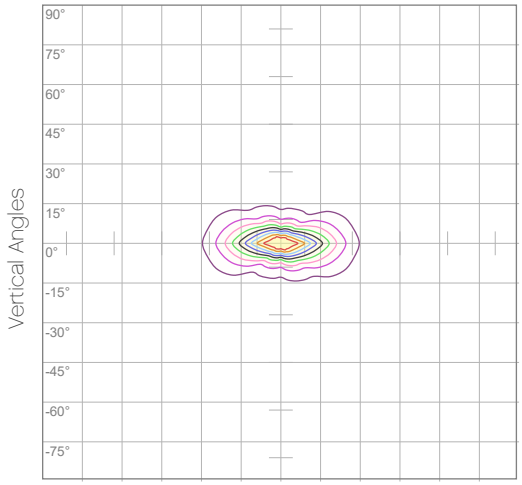
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	24169	6042	2685	1511	967	671	493	378	298	242
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	200	168	143	123	107	94	84	75	67	60
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2245	561	249	140	90	62	46	35	28	22
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	19	16	13	11	10	9	8	7	6	6

Photometric Report

Ilumipanel ML: Accessory Optics - Asymmetrical Filter, Full Power



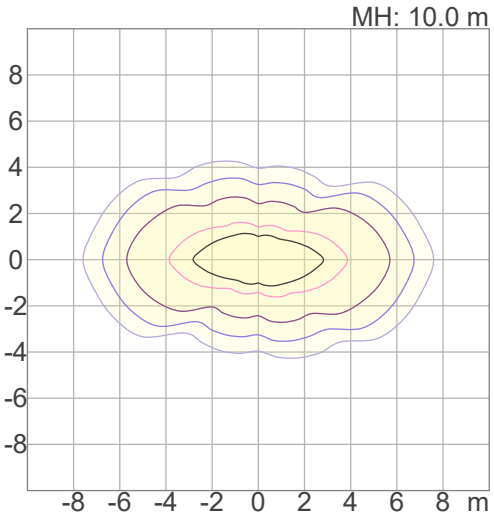
Polar Diagrams



iso-candela Diagram

10%	2417 cd
20%	4834 cd
30%	7251 cd
40%	9668 cd
50%	12084 cd
60%	14501 cd
70%	16918 cd
80%	19335 cd
90%	21752 cd

Conditions:
Number of c-planes: 8
Candela at center: 24169 cd



iso-illuminance Diagram

3%	7.25 lx
5%	12.1 lx
10%	24.2 lx
30%	72.5 lx
50%	121 lx

Conditions:
Number of c-planes: 8
Lux at center: 242 lx

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

Mounting height: 10 meters / 33 feet

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Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact the dealer of the record.