PHOTOMETRICS REPORT

# ILUMI**PANEL** LL

ILUMIN**ARC**®

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# 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 LL:** Standard Optics, Full Power

## Report Summary

**Output**

Total Lumens: 18228 lm
Peak Intensity: 734069 cd
Illuminance @ 5m: 29314 lux
Fixture Efficacy: 37 lm/W

**Optical**

Horizontal Beam Angle (50%): 6.4°
Vertical Beam Angle (50%): 7.7°
Horizontal Field Angle (10%): 11.7°
Vertical Field Angle (10%): 14.5°
Horizontal Cutoff Angle (3%): 19.7°
Vertical Cutoff Angle (3%): 22°

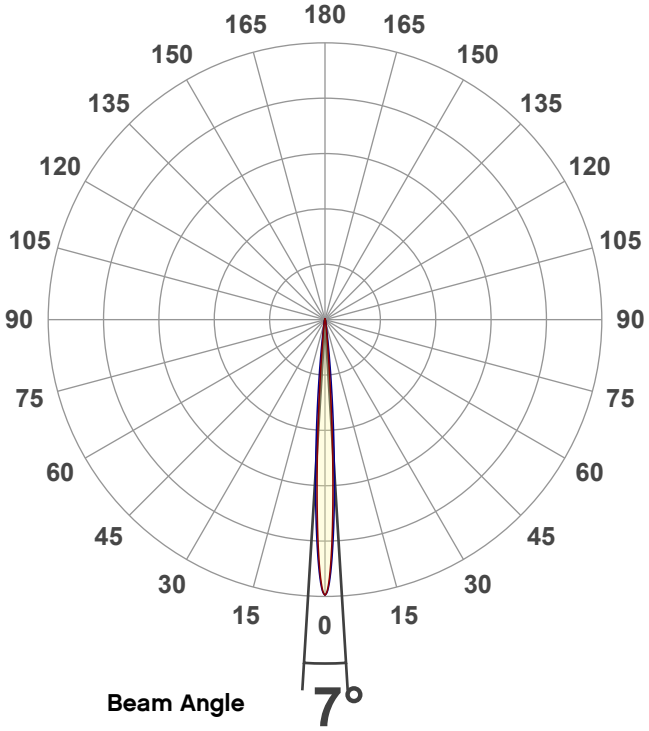
**Conditions**

AC Supply: 117 V, 60 Hz
Power: 499.72 W
Current: 4.27 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 Sunrise, FL on 6/2/2021 to LM-63-2002 Standards.

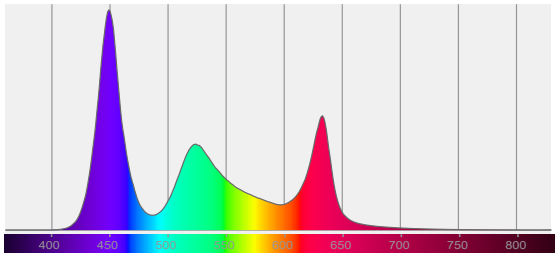
## Overall Measurement

**Angular Beam Distribution**

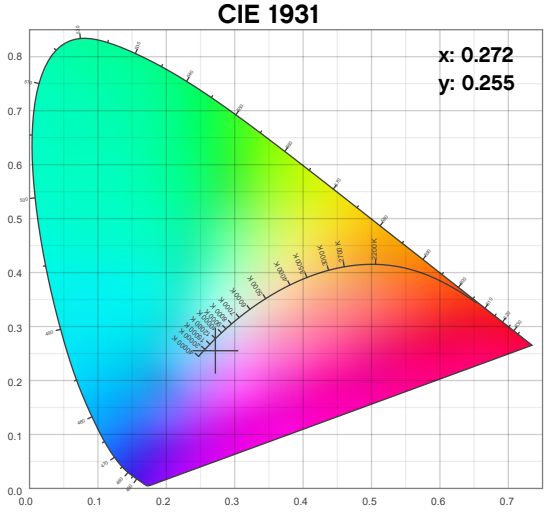



**Beam Angle** 7°

**Spectral Distribution**



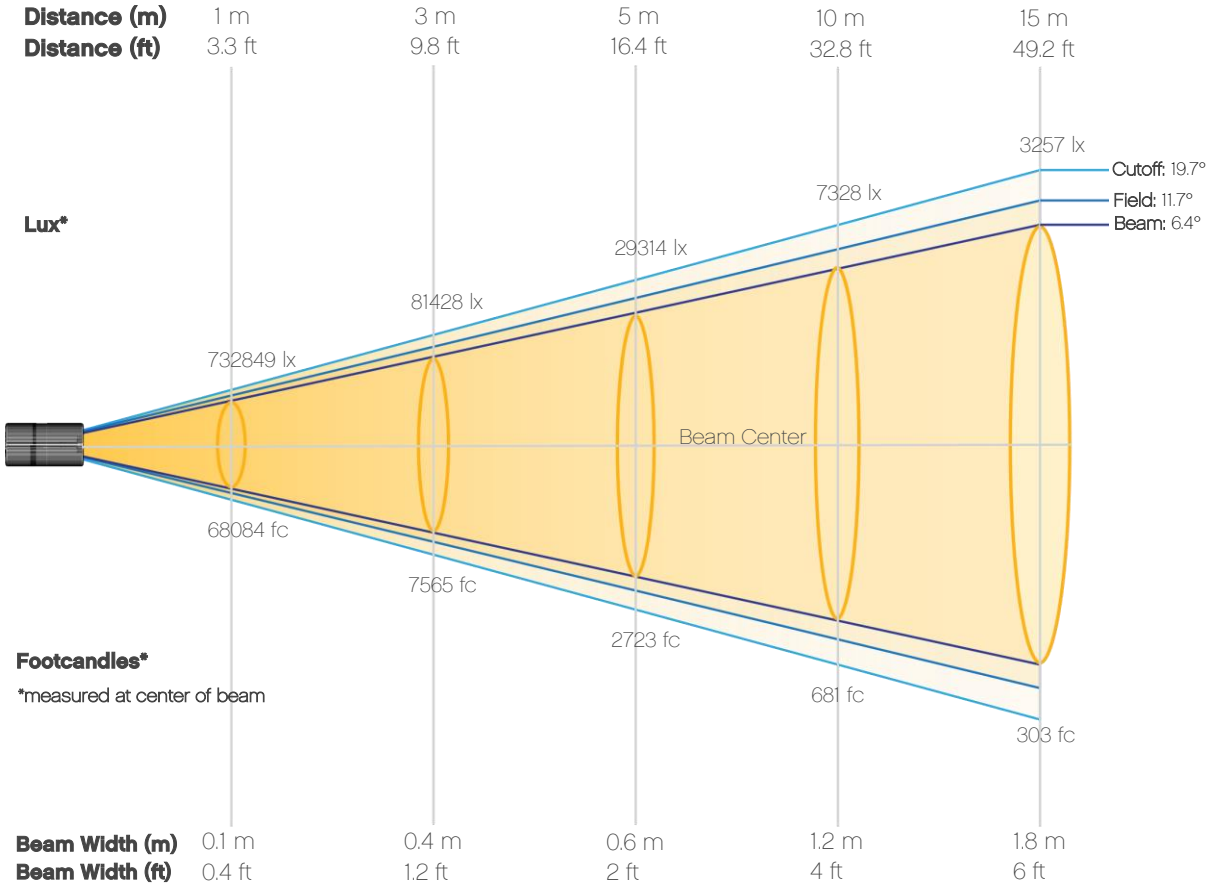

**CIE 1931**



# Photometric Report

**Ilumipanel LL:** Standard Optics, Full Power

## Beam Details



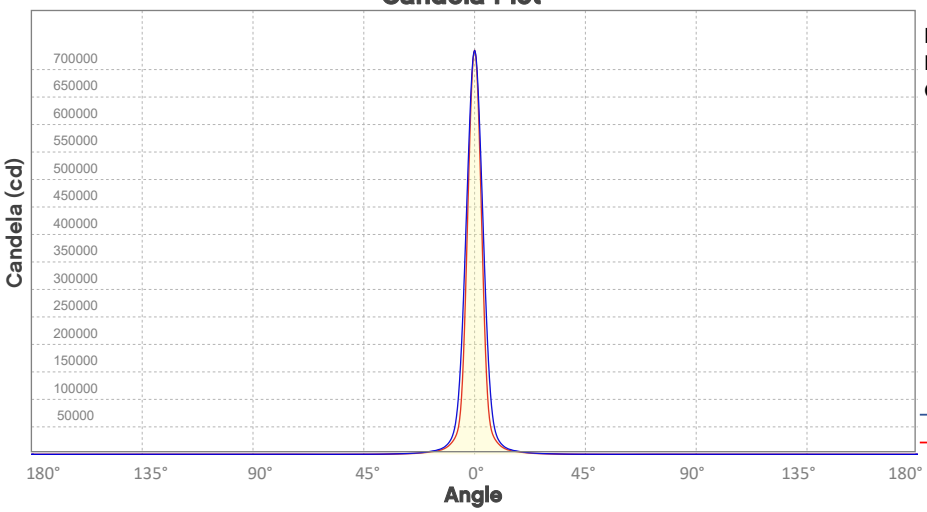

### Beam Illuminances from 1-20m (3.3-65.6ft)

| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|---|---|---|---|---|---|---|---|---|---|---|
| Lux | 732849 | 183212 | 81428 | 45803 | 29314 | 20357 | 14956 | 11451 | 9048 | 7328 |
| **Distance** | **11m** | **12m** | **13m** | **14m** | **15m** | **16m** | **17m** | **18m** | **19m** | **20m** |
| Lux | 6057 | 5089 | 4336 | 3739 | 3257 | 2863 | 2536 | 2262 | 2030 | 1832 |
| **Distance** | **3.3ft** | **6.6ft** | **9.8ft** | **13.1ft** | **16.4ft** | **19.7ft** | **23ft** | **26.2ft** | **29.5ft** | **32.8ft** |
| FC | 68084 | 17021 | 7565 | 4255 | 2723 | 1891 | 1389 | 1064 | 841 | 681 |
| **Distance** | **36.1ft** | **39.4ft** | **42.7ft** | **45.9ft** | **49.2ft** | **52.5ft** | **55.8ft** | **59.1ft** | **62.3ft** | **65.6ft** |
| FC | 563 | 473 | 403 | 347 | 303 | 266 | 236 | 210 | 189 | 170 |

# Photometric Report

**Ilumipanel LL:** Standard Optics, Full Power

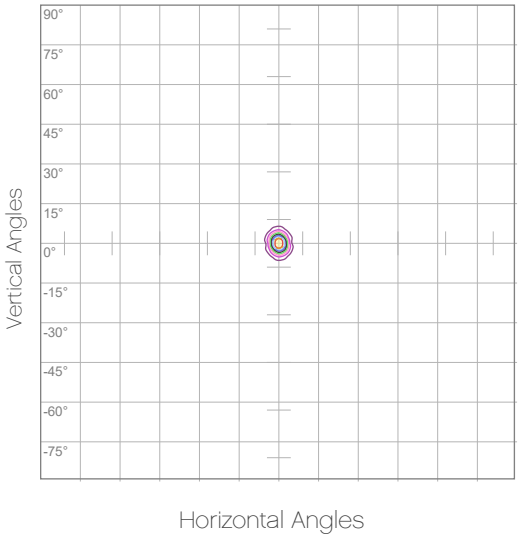
**Candela Plot**




**Beam Angle (50%): 7°**
**Field Angle (10%): 13°**
**Cutoff Angle (3%): 20.8°**

**Vertical Distribution**
**Horizontal Distribution**

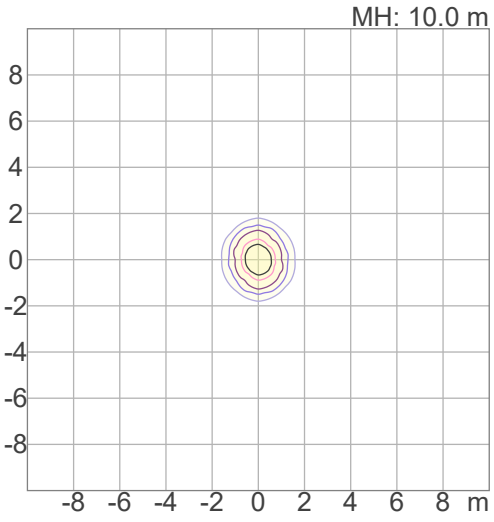
## Polar Diagrams




**iso-candela Diagram**

| | | |
|---|---|---|
| | 10% | 73285 cd |
| | 20% | 146570 cd |
| | 30% | 219855 cd |
| | 40% | 293139 cd |
| | 50% | 366424 cd |
| | 60% | 439709 cd |
| | 70% | 512994 cd |
| | 80% | 586279 cd |
| | 90% | 659564 cd |

Conditions:
Number of c-planes: 8
Candela at center: 732849 cd




**iso-illuminance Diagram**

| | | |
|---|---|---|
| | 3% | 220 lx |
| | 5% | 366 lx |
| | 10% | 733 lx |
| | 30% | 2199 lx |
| | 50% | 3664 lx |

Conditions:
Number of c-planes: 8
Lux at center: 7328 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 LL:** Accessory Optics - Medium Filter, Full Power

## Report Summary

**Output**

Total Lumens: 16623 lm
Peak Intensity: 83061 cd
Illuminance @ 5m: 3316 lux
Fixture Efficacy: 33 lm/W

**Optical**

Horizontal Beam Angle (50%): 19.9°
Vertical Beam Angle (50%): 20.5°
Horizontal Field Angle (10%): 41.3°
Vertical Field Angle (10%): 41.8°
Horizontal Cutoff Angle (3%): 61.5°
Vertical Cutoff Angle (3%): 62°

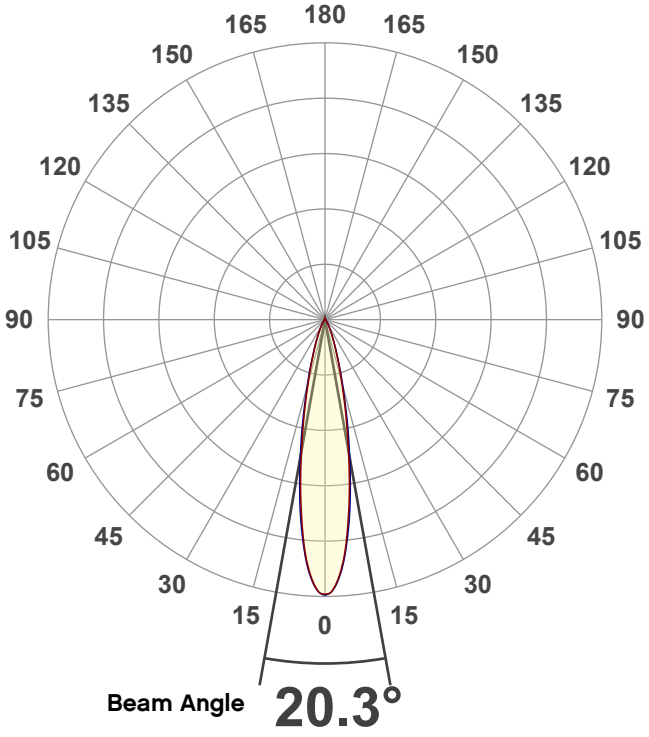
**Conditions**

AC Supply: 117 V, 60 Hz
Power: 501.73 W
Current: 4.29 A
Power Factor: 1.0

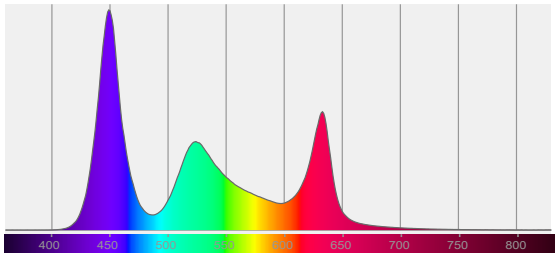
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2021 to LM-63-2002 Standards.

## Overall Measurement

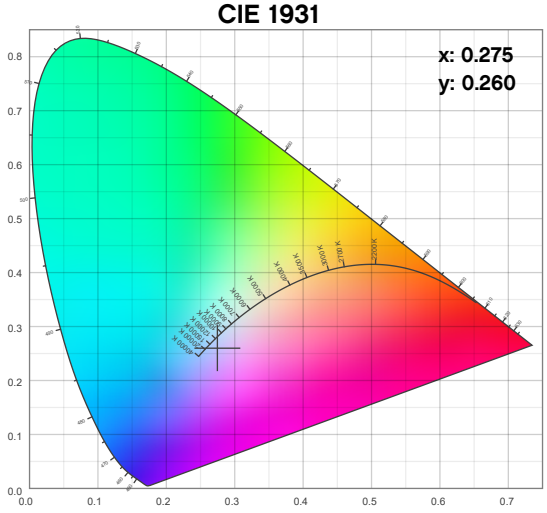
**Angular Beam Distribution**




**Spectral Distribution**



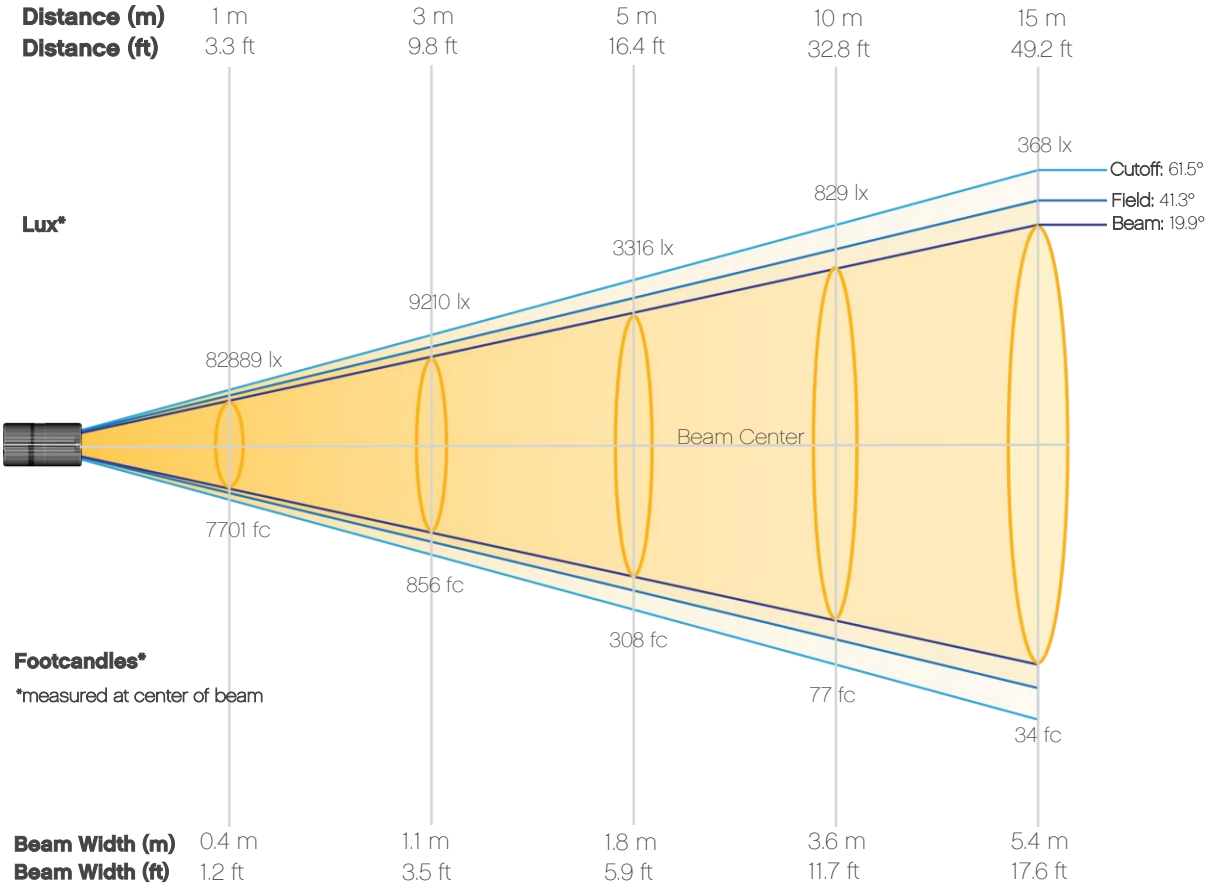

**CIE 1931**



# Photometric Report

**Ilumipanel LL:** Accessory Optics - Medium Filter, Full Power

## Beam Details



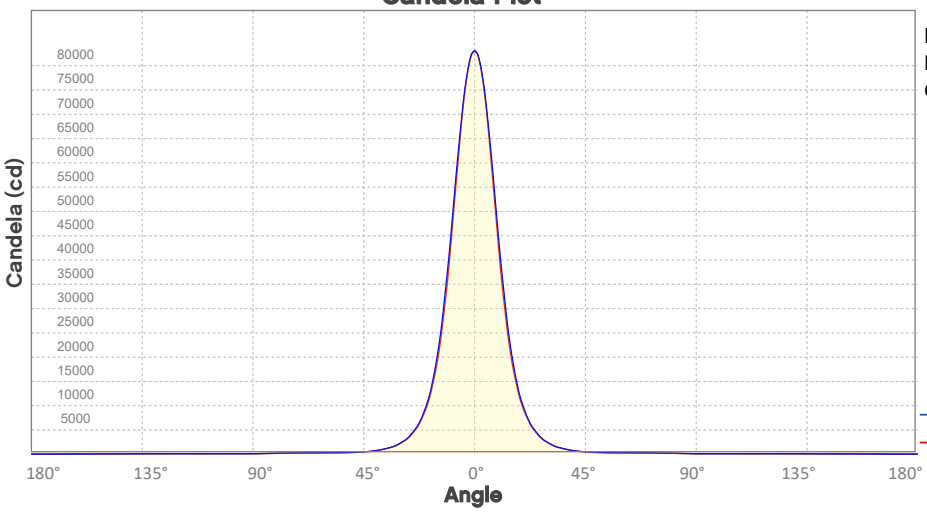

### Beam Iluminances from 1-20m (3.3-65.6ft)

| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|---|---|---|---|---|---|---|---|---|---|---|
| Lux | 82889 | 20722 | 9210 | 5181 | 3316 | 2302 | 1692 | 1295 | 1023 | 829 |
| **Distance** | **11m** | **12m** | **13m** | **14m** | **15m** | **16m** | **17m** | **18m** | **19m** | **20m** |
| Lux | 685 | 576 | 490 | 423 | 368 | 324 | 287 | 256 | 230 | 207 |
| **Distance** | **3.3ft** | **6.6ft** | **9.8ft** | **13.1ft** | **16.4ft** | **19.7ft** | **23ft** | **26.2ft** | **29.5ft** | **32.8ft** |
| FC | 7701 | 1925 | 856 | 481 | 308 | 214 | 157 | 120 | 95 | 77 |
| **Distance** | **36.1ft** | **39.4ft** | **42.7ft** | **45.9ft** | **49.2ft** | **52.5ft** | **55.8ft** | **59.1ft** | **62.3ft** | **65.6ft** |
| FC | 64 | 53 | 46 | 39 | 34 | 30 | 27 | 24 | 21 | 19 |

# Photometric Report

**Ilumipanel LL:** Accessory Optics - Medium Filter, Full Power

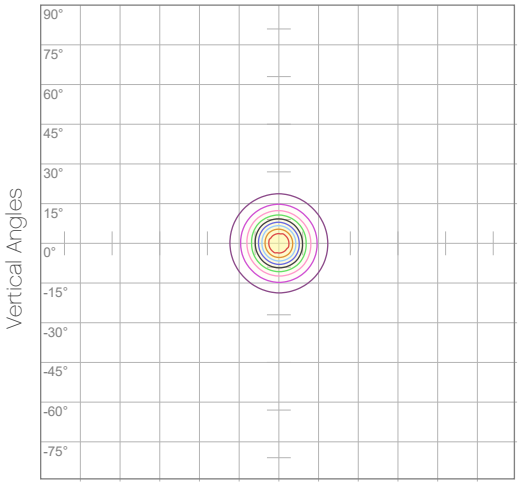
**Candela Plot**




**Beam Angle (50%): 20.3°**
**Field Angle (10%): 41.4°**
**Cutoff Angle (3%): 61.5°**

**Vertical Distribution**
**Horizontal Distribution**

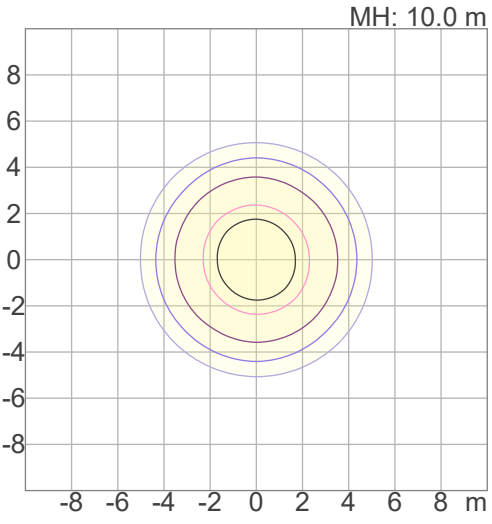
## Polar Diagrams




**iso-candela Diagram**

| | | |
|---|---|---|
| 10% | 8289 cd |
| 20% | 16578 cd |
| 30% | 24867 cd |
| 40% | 33156 cd |
| 50% | 41445 cd |
| 60% | 49734 cd |
| 70% | 58023 cd |
| 80% | 66311 cd |
| 90% | 74600 cd |

Conditions:
Number of c-planes: 8
Candela at center: 82889 cd




**iso-illuminance Diagram**

| | |
|---|---|
| 3% | 24.9 lx |
| 5% | 41.4 lx |
| 10% | 82.9 lx |
| 30% | 249 lx |
| 50% | 414 lx |

Conditions:
Number of c-planes: 8
Lux at center: 829 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 LL:** Accessory Optics-Wide Filter, Full Power

## Report Summary

**Output**

Total Lumens: 14211 lm
Peak Intensity: 23483 cd
Illuminance @ 5m: 939 lux
Fixture Efficacy: 29 lm/W

**Optical**

Horizontal Beam Angle (50%): 32.6°
Vertical Beam Angle (50%): 33.1°
Horizontal Field Angle (10%): 65.3°
Vertical Field Angle (10%): 66.2°
Horizontal Cutoff Angle (3%): 162.7°
Vertical Cutoff Angle (3%): 162.5°

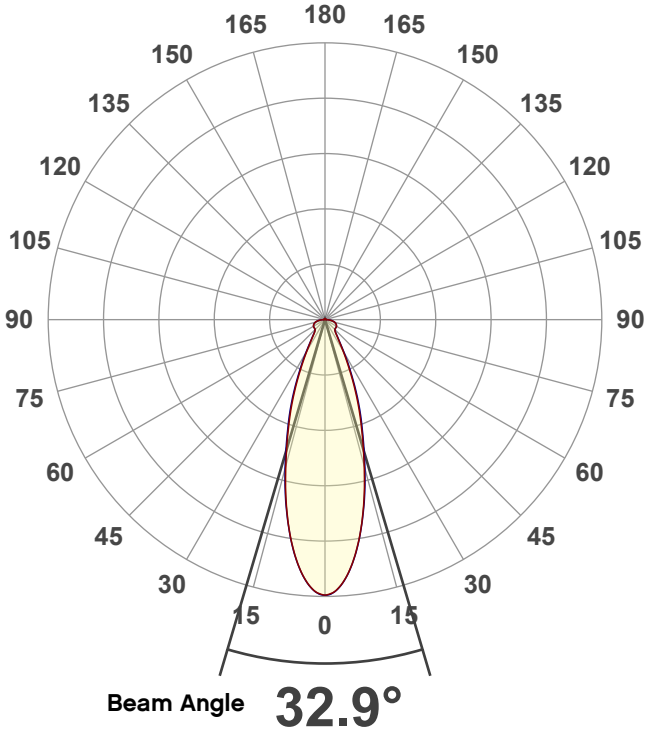
**Conditions**

AC Supply: 117 V, 60 Hz
Power: 498.51 W
Current: 4.27 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 Sunrise, FL on 6/2/2021 to LM-63-2002 Standards.

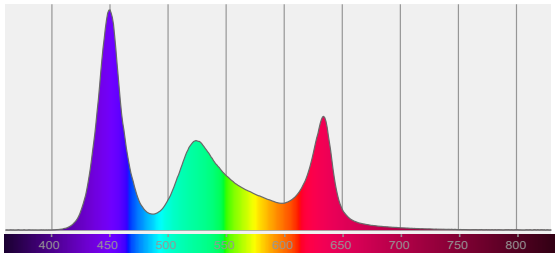
## Overall Measurement

**Angular Beam Distribution**

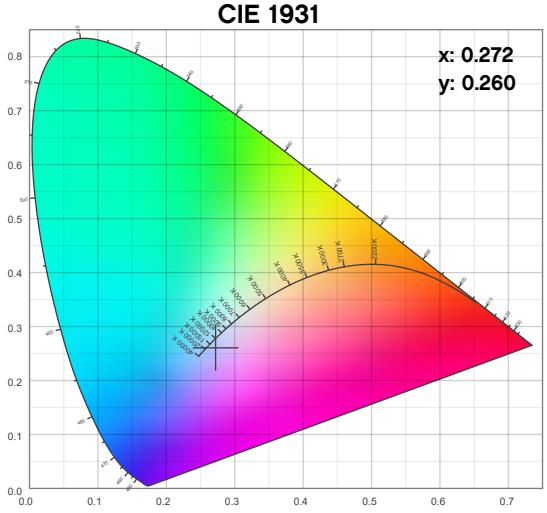



Beam Angle 32.9°

**Spectral Distribution**



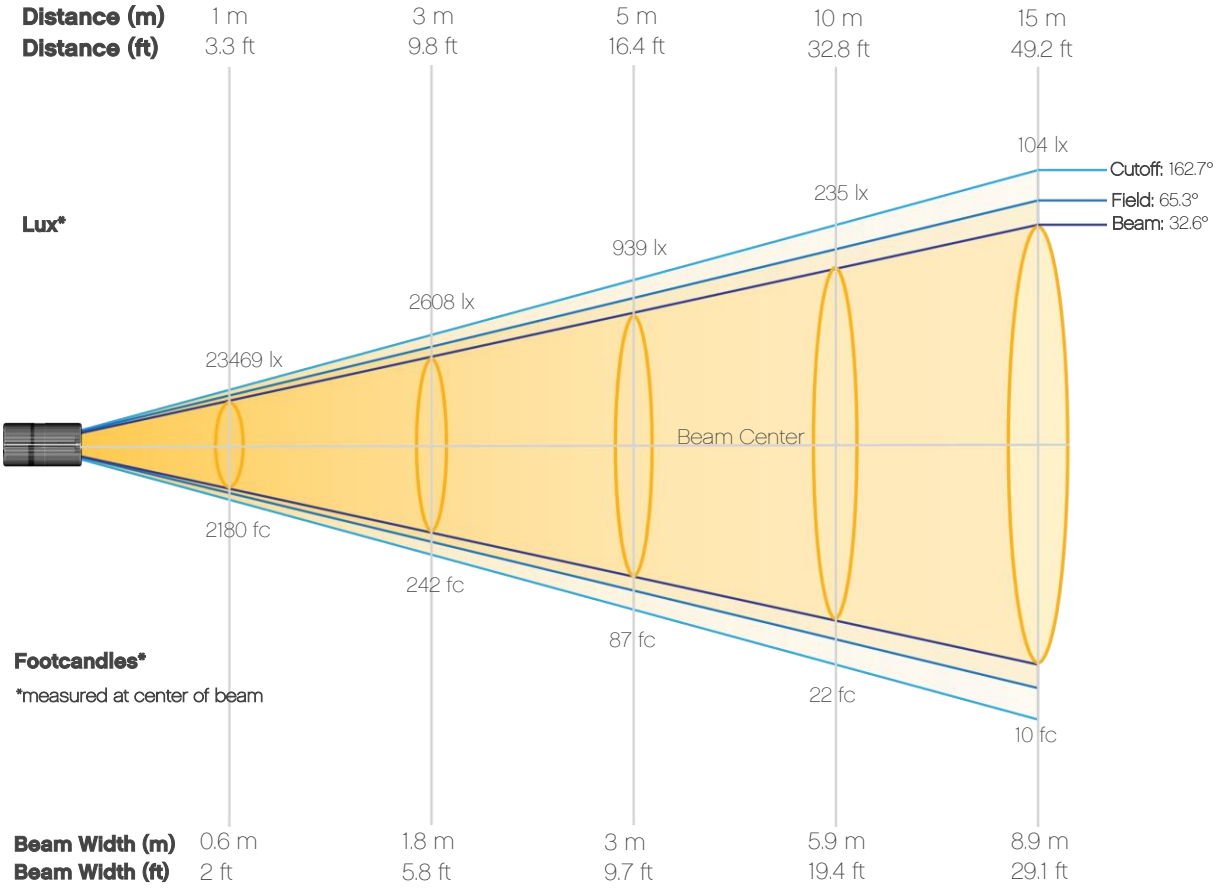

**CIE 1931**



# Photometric Report

**Ilumipanel LL:** Accessory Optics-Wide Filter, Full Power

## Beam Details



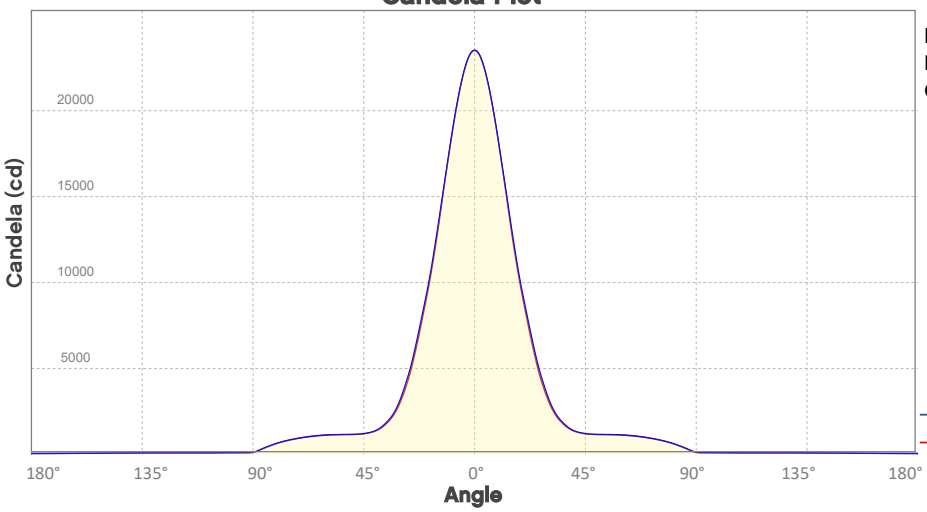

**Beam Iluminances from 1-20m (3.3-65.6ft)**

| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|---|---|---|---|---|---|---|---|---|---|---|
| Lux | 23469 | 5867 | 2608 | 1467 | 939 | 652 | 479 | 367 | 290 | 235 |
| **Distance** | **11m** | **12m** | **13m** | **14m** | **15m** | **16m** | **17m** | **18m** | **19m** | **20m** |
| Lux | 194 | 163 | 139 | 120 | 104 | 92 | 81 | 72 | 65 | 59 |
| **Distance** | **3.3ft** | **6.6ft** | **9.8ft** | **13.1ft** | **16.4ft** | **19.7ft** | **23ft** | **26.2ft** | **29.5ft** | **32.8ft** |
| FC | 2180 | 545 | 242 | 136 | 87 | 61 | 44 | 34 | 27 | 22 |
| **Distance** | **36.1ft** | **39.4ft** | **42.7ft** | **45.9ft** | **49.2ft** | **52.5ft** | **55.8ft** | **59.1ft** | **62.3ft** | **65.6ft** |
| FC | 18 | 15 | 13 | 11 | 10 | 9 | 8 | 7 | 6 | 5 |

# Photometric Report

**Ilumipanel LL:** Accessory Optics - Wide Filter, Full Power

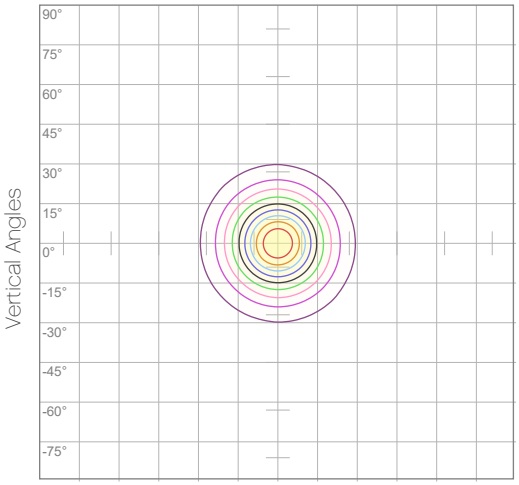
**Candela Plot**




**Beam Angle (50%): 32.9°**
**Field Angle (10%): 65.7°**
**Cutoff Angle (3%): 162.7°**

**Vertical Distribution**
**Horizontal Distribution**

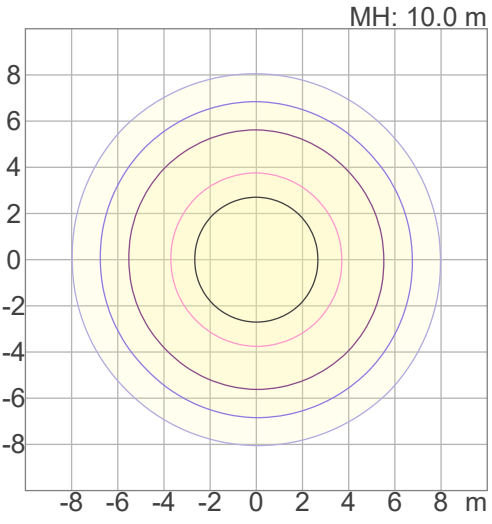
## Polar Diagrams




**iso-candela Diagram**

| | | |
|---|---|---|
| 10% | 2347 cd |
| 20% | 4694 cd |
| 30% | 7041 cd |
| 40% | 9388 cd |
| 50% | 11735 cd |
| 60% | 14081 cd |
| 70% | 16428 cd |
| 80% | 18775 cd |
| 90% | 21122 cd |

Conditions:
Number of c-planes: 8
Candela at center: 23469 cd




**iso-illuminance Diagram**

| | |
|---|---|
| 3% | 7.04 lx |
| 5% | 11.7 lx |
| 10% | 23.5 lx |
| 30% | 70.4 lx |
| 50% | 117 lx |

Conditions:
Number of c-planes: 8
Lux at center: 235 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 LL:** Accessory Optics-Very Wide Filter, Full Power

## Report Summary

**Output**

Total Lumens: 13612 lm
Peak Intensity: 17498 cd
Illuminance @ 5m: 699 lux
Fixture Efficacy: 27 lm/W

**Optical**

Horizontal Beam Angle (50%): 34.9°
Vertical Beam Angle (50%): 35.2°
Horizontal Field Angle (10%): 72.7°
Vertical Field Angle (10%): 74.6°
Horizontal Cutoff Angle (3%): 168.4°
Vertical Cutoff Angle (3%): 169.3°

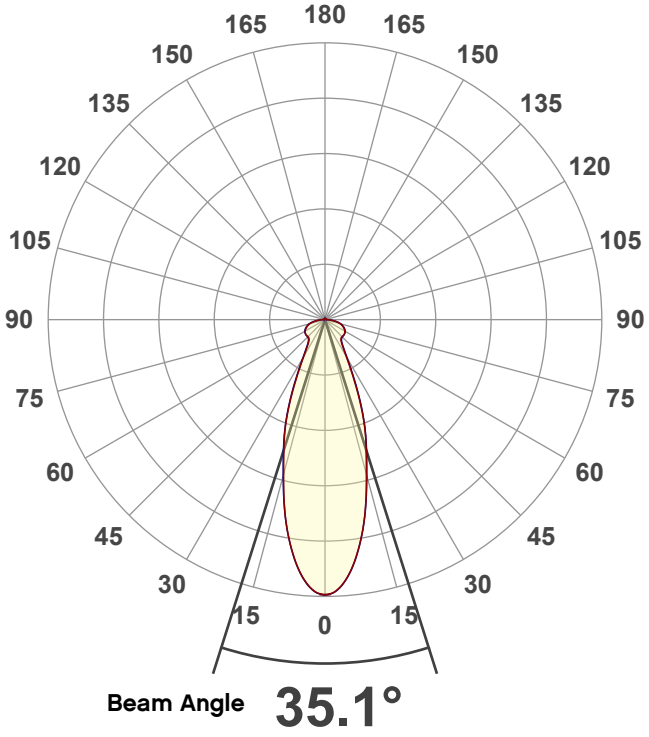
**Conditions**

AC Supply: 118 V, 60 Hz
Power: 497.23 W
Current: 4.21 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 Sunrise, FL on 6/2/2021 to LM-63-2002 Standards.

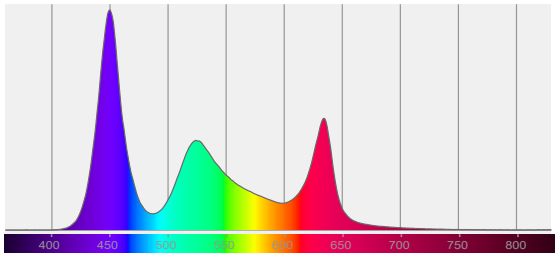
## Overall Measurement

**Angular Beam Distribution**

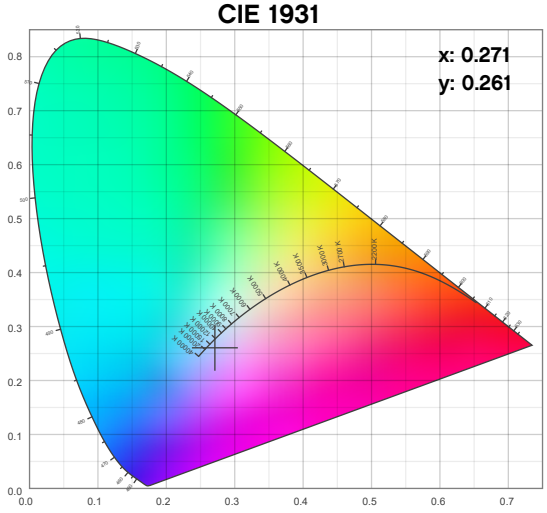



Beam Angle 35.1°

**Spectral Distribution**



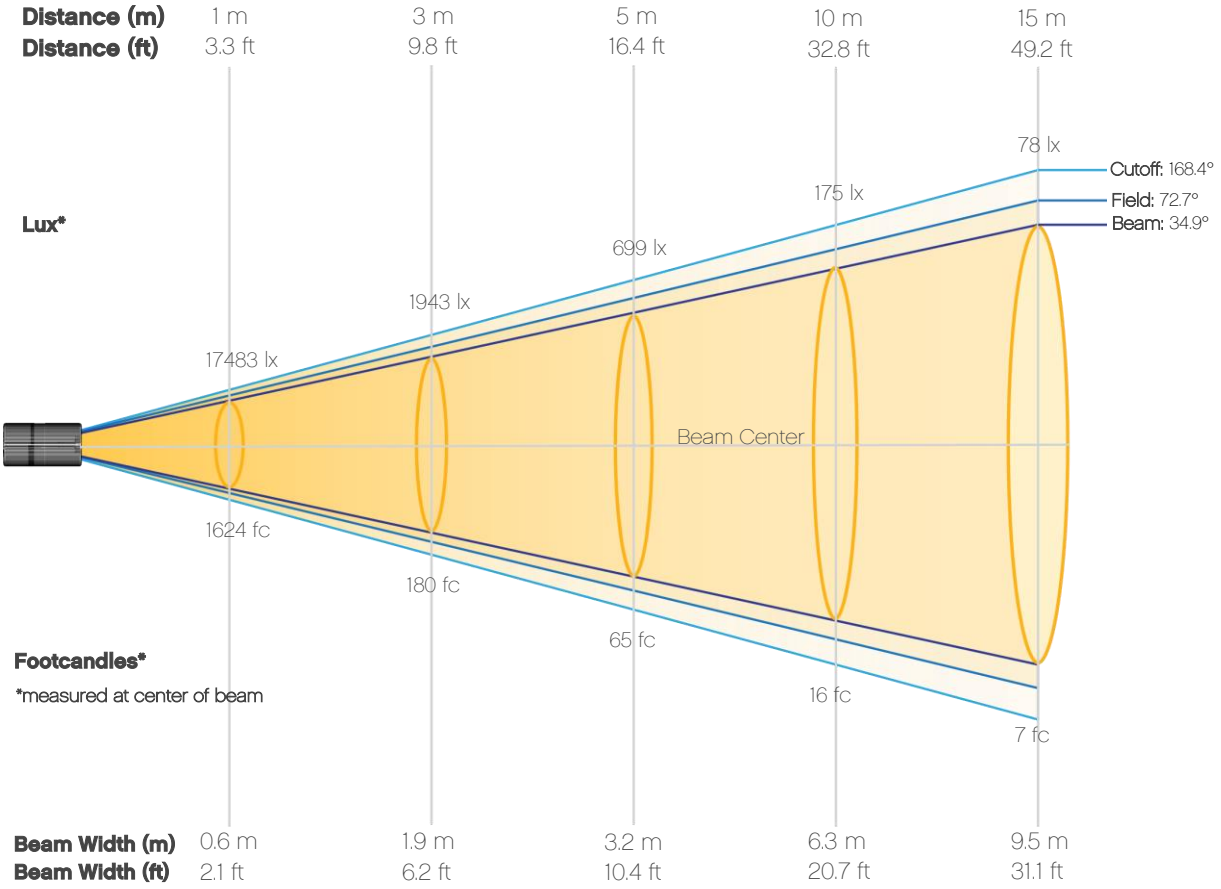

**CIE 1931**



# Photometric Report

**Ilumipanel LL:** Accessory Optics-Very Wide Filter, Full Power

## Beam Details



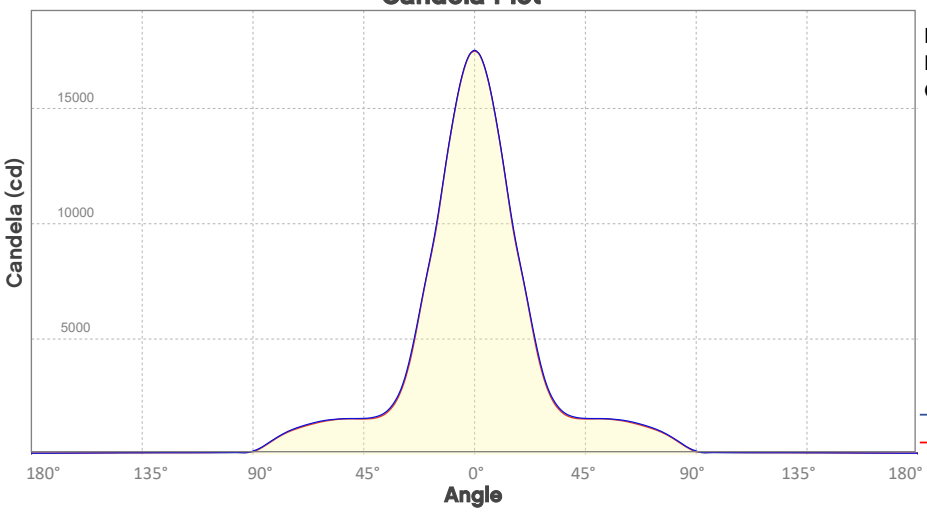

**Beam Iluminances from 1-20m (3.3-65.6ft)**

| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|---|---|---|---|---|---|---|---|---|---|---|
| Lux | 17483 | 4371 | 1943 | 1093 | 699 | 486 | 357 | 273 | 216 | 175 |
| **Distance** | **11m** | **12m** | **13m** | **14m** | **15m** | **16m** | **17m** | **18m** | **19m** | **20m** |
| Lux | 144 | 121 | 103 | 89 | 78 | 68 | 60 | 54 | 48 | 44 |
| **Distance** | **3.3ft** | **6.6ft** | **9.8ft** | **13.1ft** | **16.4ft** | **19.7ft** | **23ft** | **26.2ft** | **29.5ft** | **32.8ft** |
| FC | 1624 | 406 | 180 | 102 | 65 | 45 | 33 | 25 | 20 | 16 |
| **Distance** | **36.1ft** | **39.4ft** | **42.7ft** | **45.9ft** | **49.2ft** | **52.5ft** | **55.8ft** | **59.1ft** | **62.3ft** | **65.6ft** |
| FC | 13 | 11 | 10 | 8 | 7 | 6 | 6 | 5 | 4 | 4 |

# Photometric Report

**Ilumipanel LL:** Accessory Optics - Very Wide Filter, Full Power

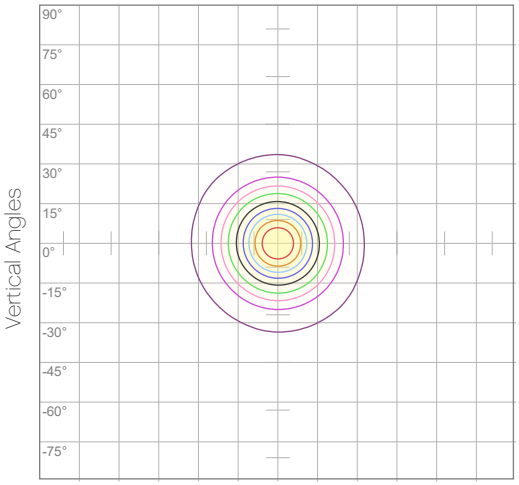
**Candela Plot**




**Beam Angle (50%): 35.1°**
**Field Angle (10%): 73.8°**
**Cutoff Angle (3%): 168.9°**

**Vertical Distribution**
**Horizontal Distribution**

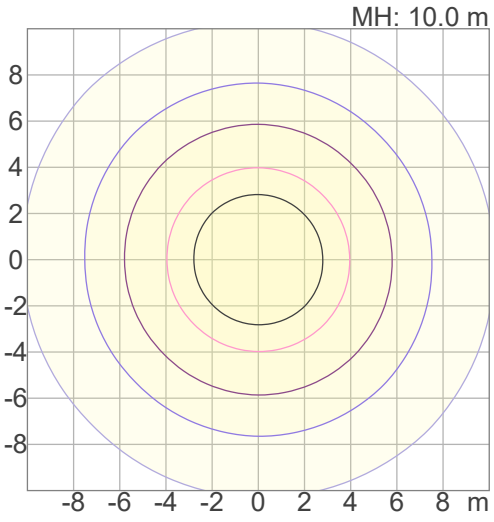
## Polar Diagrams




**iso-candela Diagram**

| | | |
|---|---|---|
| | 10% | 1748 cd |
| | 20% | 3497 cd |
| | 30% | 5245 cd |
| | 40% | 6993 cd |
| | 50% | 8741 cd |
| | 60% | 10490 cd |
| | 70% | 12238 cd |
| | 80% | 13986 cd |
| | 90% | 15734 cd |

Conditions:
Number of c-planes: 8
Candela at center: 17483 cd




**iso-illuminance Diagram**

| | | |
|---|---|---|
| | 3% | 5.24 lx |
| | 5% | 8.74 lx |
| | 10% | 17.5 lx |
| | 30% | 52.4 lx |
| | 50% | 87.4 lx |

Conditions:
Number of c-planes: 8
Lux at center: 175 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 LL:** Accessory Optics - Asymmetrical Filter, Full Power

## Report Summary

**Output**

Total Lumens: 13561 lm
Peak Intensity: 65818 cd
Illuminance @ 5m: 2631 lux
Fixture Efficacy: 27 lm/W

**Optical**

Horizontal Beam Angle (50%): 26°
Vertical Beam Angle (50%): 12.2°
Horizontal Field Angle (10%): 53.3°
Vertical Field Angle (10%): 28.9°
Horizontal Cutoff Angle (3%): 76.2°
Vertical Cutoff Angle (3%): 50.5°

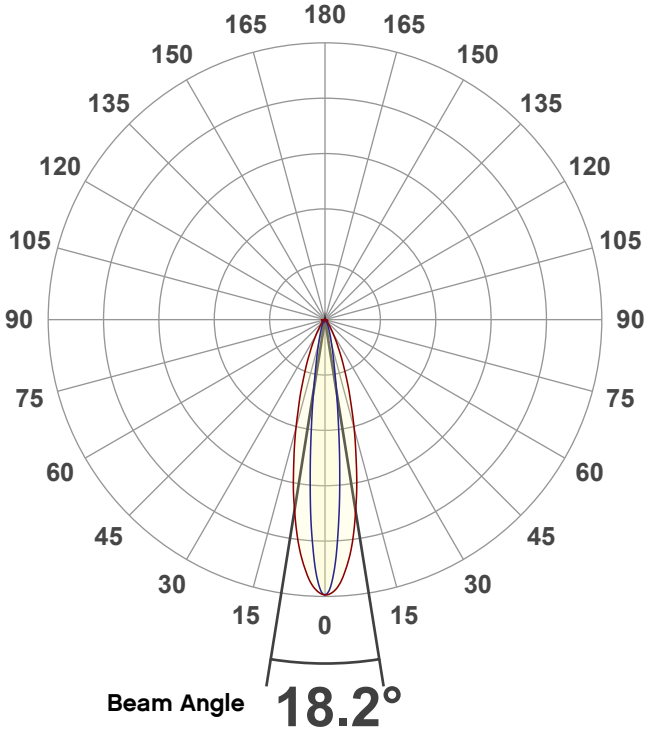
**Conditions**

AC Supply: 118 V, 60 Hz
Power: 497.29 W
Current: 4.20 A
Power Factor: 1.0

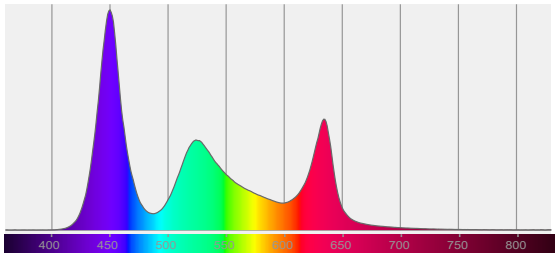
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 6/2/2021 to LM-63-2002 Standards.

## Overall Measurement

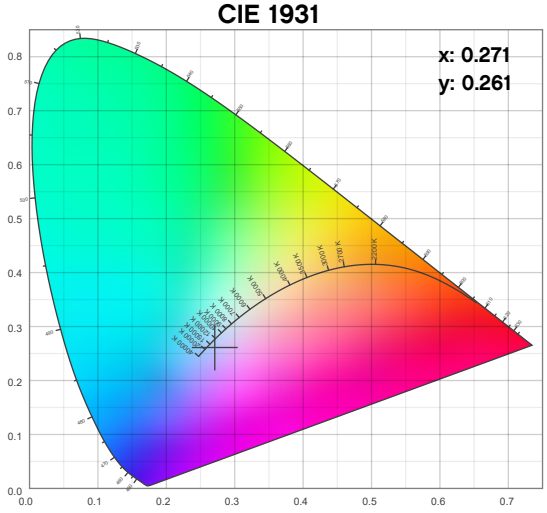
**Angular Beam Distribution**




**Spectral Distribution**



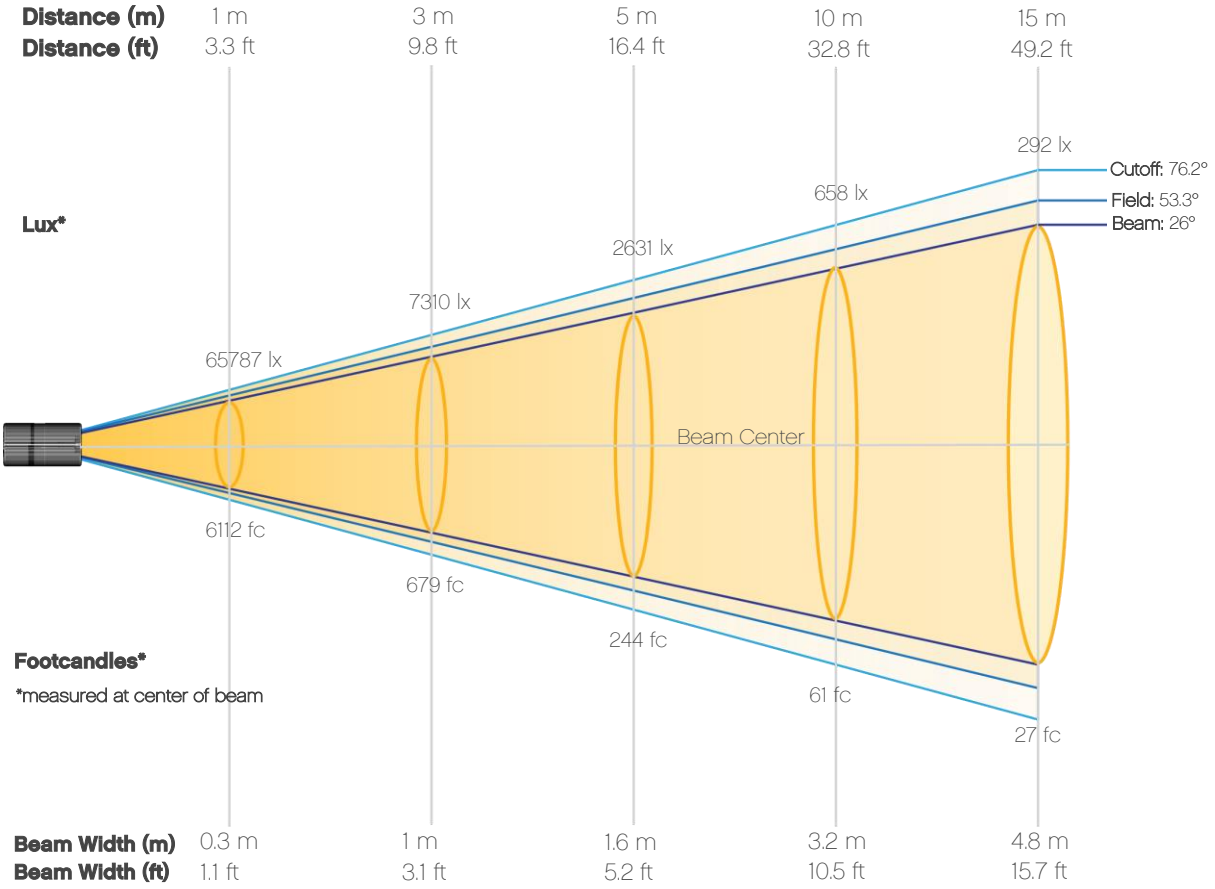

**CIE 1931**



# Photometric Report

**Ilumipanel LL:** Accessory Optics-Asymmetrical Filter, Full Power

## Beam Details



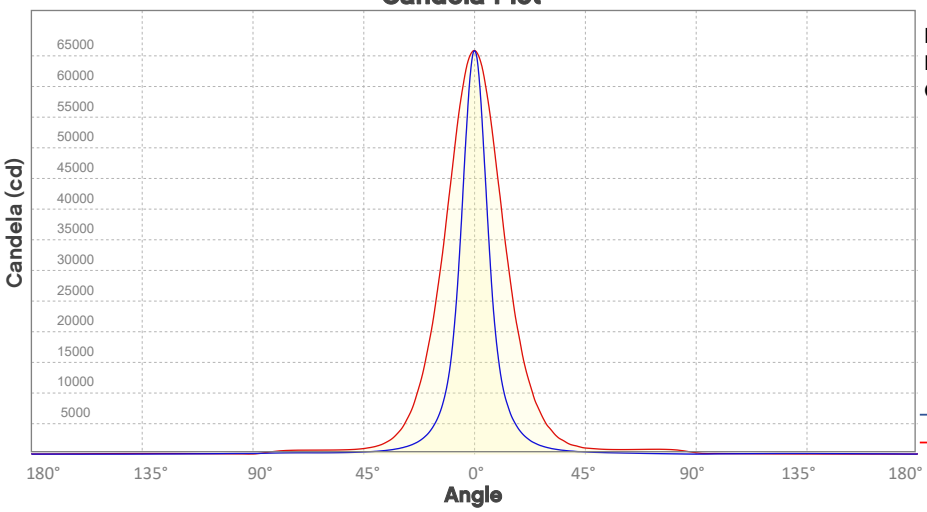

### Beam Iluminances from 1-20m (3.3-65.6ft)

| Distance | 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m |
|---|---|---|---|---|---|---|---|---|---|---|
| Lux | 65787 | 16447 | 7310 | 4112 | 2631 | 1827 | 1343 | 1028 | 812 | 658 |
| **Distance** | **11m** | **12m** | **13m** | **14m** | **15m** | **16m** | **17m** | **18m** | **19m** | **20m** |
| Lux | 544 | 457 | 389 | 336 | 292 | 257 | 228 | 203 | 182 | 164 |
| **Distance** | **3.3ft** | **6.6ft** | **9.8ft** | **13.1ft** | **16.4ft** | **19.7ft** | **23ft** | **26.2ft** | **29.5ft** | **32.8ft** |
| FC | 6112 | 1528 | 679 | 382 | 244 | 170 | 125 | 95 | 75 | 61 |
| **Distance** | **36.1ft** | **39.4ft** | **42.7ft** | **45.9ft** | **49.2ft** | **52.5ft** | **55.8ft** | **59.1ft** | **62.3ft** | **65.6ft** |
| FC | 51 | 42 | 36 | 31 | 27 | 24 | 21 | 19 | 17 | 15 |

# Photometric Report

**Ilumipanel LL:** Accessory Optics-Asymmetrical Filter, Full Power

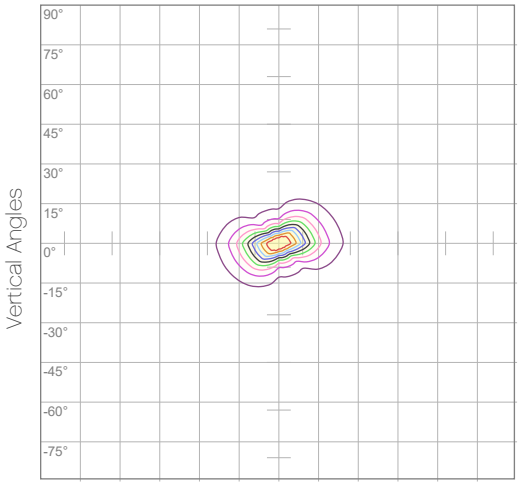
## Candela Plot




**Beam Angle (50%): 18.2°**
**Field Angle (10%): 39.6°**
**Cutoff Angle (3%): 62°**

**Vertical Distribution**
**Horizontal Distribution**

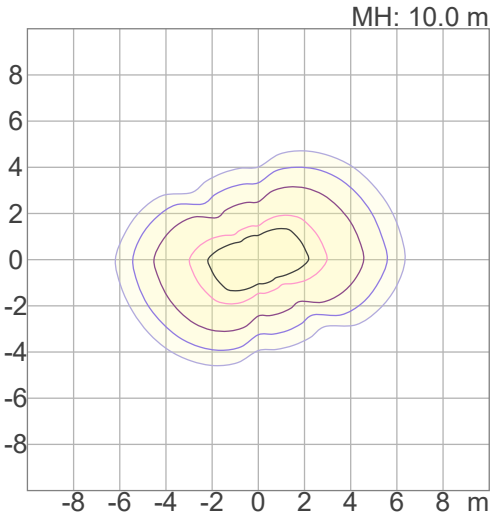
## Polar Diagrams




### iso-candela Diagram

| | | |
|---|---|---|
| 10% | 6579 cd |
| 20% | 13157 cd |
| 30% | 19736 cd |
| 40% | 26315 cd |
| 50% | 32894 cd |
| 60% | 39472 cd |
| 70% | 46051 cd |
| 80% | 52630 cd |
| 90% | 59208 cd |

Conditions:
Number of c-planes: 8
Candela at center: 65787 cd




### iso-illuminance Diagram

| | |
|---|---|
| 3% | 19.7 lx |
| 5% | 32.9 lx |
| 10% | 65.8 lx |
| 30% | 197 lx |
| 50% | 329 lx |

Conditions:
Number of c-planes: 8
Lux at center: 658 lx

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

Mounting height: 10 meters / 33 feet

## Contact Us

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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.