

COLORdash Par-H7XIP

PHOTOMETRICS REPORT



CHAUVET
PROFESSIONAL

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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.

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**Photometrics &
Chromaticity
Reports**

Photometric Report

COLORdash Par H7X IP: Standard Optics - Full Power - -

Report Summary

Output

Total Lumens: 2824 lm

Peak Intensity: 15395 cd

Illuminance @ 5m: 616 lux

Fixture Efficacy: 38 lm/W

Optical

Horizontal Beam Angle (50%): 23.2°

Vertical Beam Angle (50%): 23.3°

Horizontal Field Angle (10%): 38.1°

Vertical Field Angle (10%): 38.1°

Horizontal Cutoff Angle (3%): 53.7°

Vertical Cutoff Angle (3%): 53°



Conditions

AC Supply: 119 V, 60 Hz

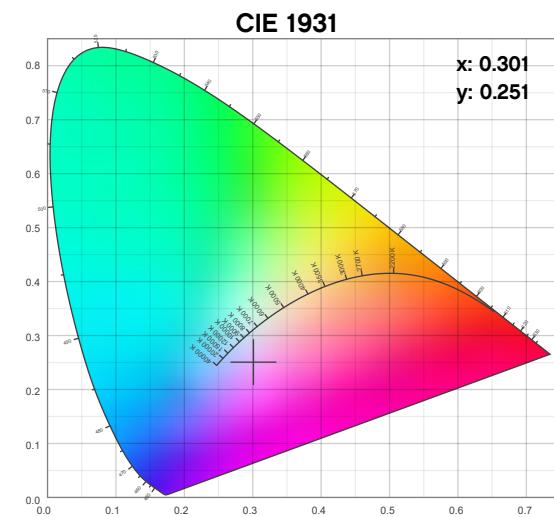
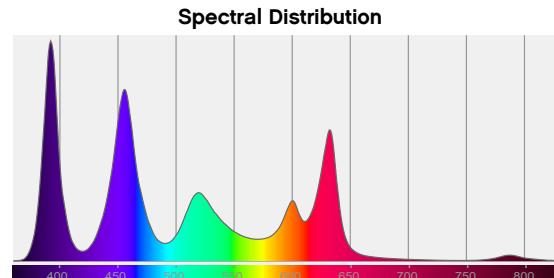
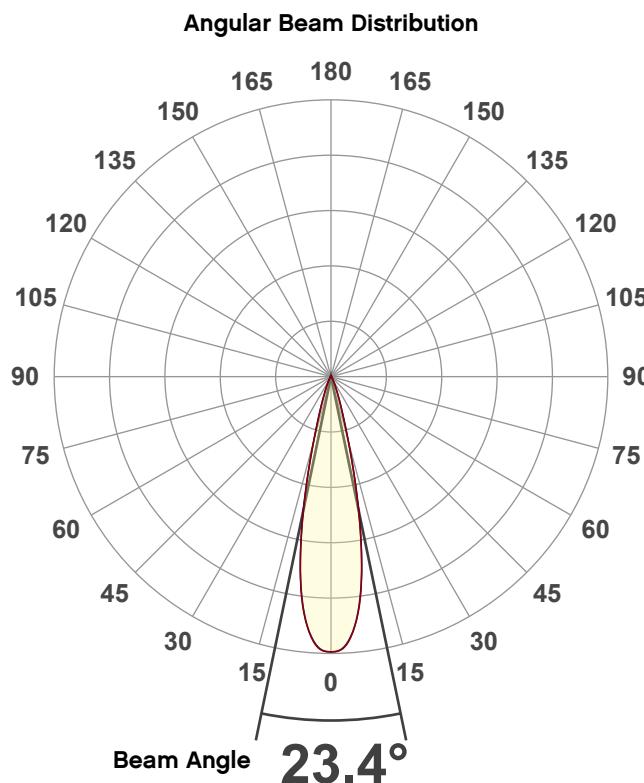
Power: 74.37 W

Current: 0.625 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 10/5/2022 to LM-63-2002 Standards.

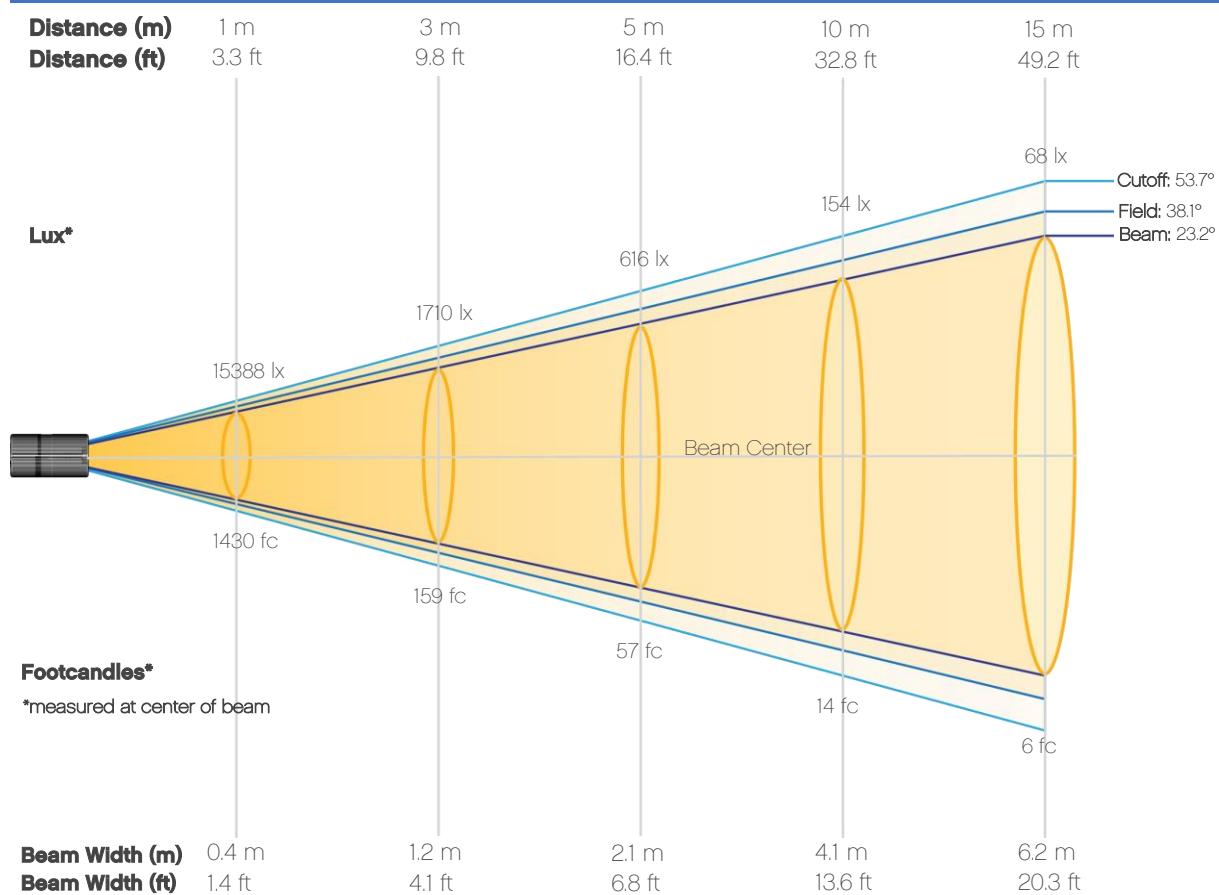
Overall Measurement



Photometric Report

COLORdash Par H7X IP: Standard Optics - Full Power - -

Beam Details



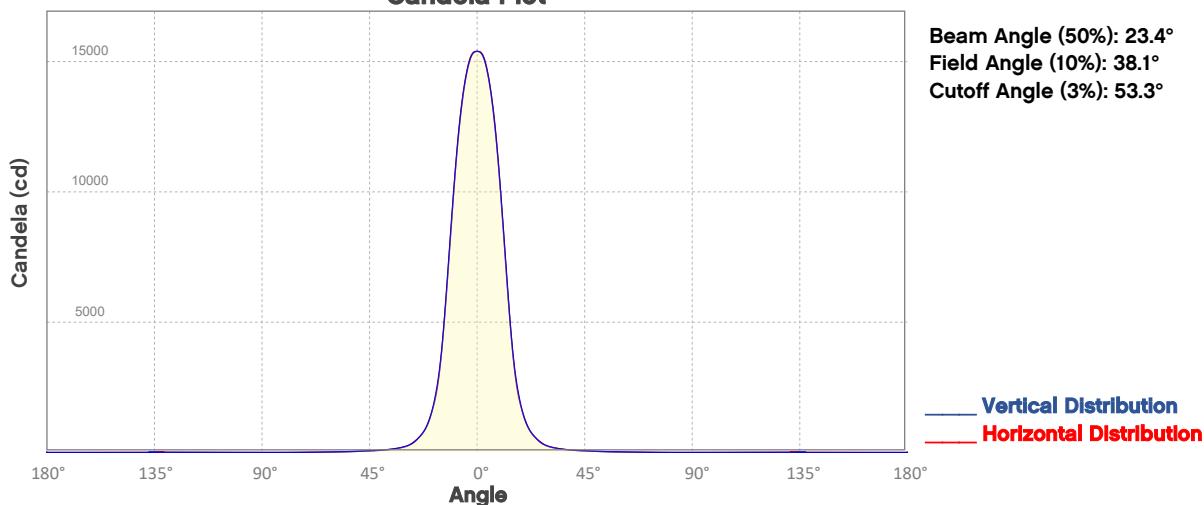
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15388	3847	1710	962	616	427	314	240	190	154
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	127	107	91	79	68	60	53	47	43	38
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1430	357	159	89	57	40	29	22	18	14
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	12	10	8	7	6	6	5	4	4	4

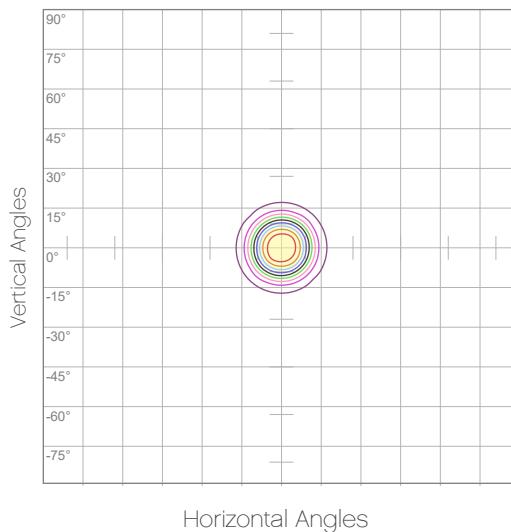
Photometric Report

COLORdash Par H7X IP: Standard Optics - Full Power - -

Candela Plot



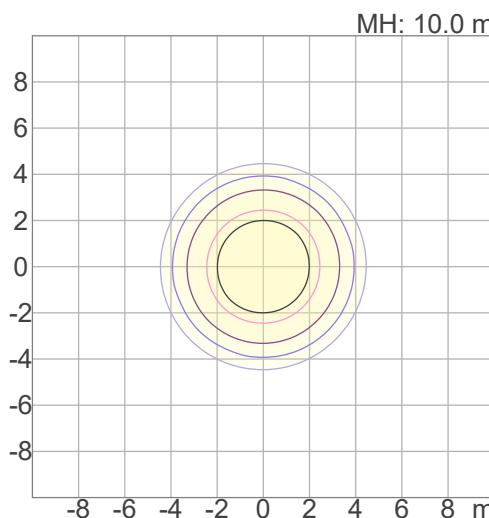
Polar Diagrams



Iso-candela Diagram

10%	1539 cd
20%	3078 cd
30%	4616 cd
40%	6155 cd
50%	7694 cd
60%	9233 cd
70%	10772 cd
80%	12311 cd
90%	13849 cd

Conditions:
Number of c-planes: 8
Candela at center: 15388 cd



Iso-illuminance Diagram

3%	4.62 lx
5%	7.69 lx
10%	15.4 lx
30%	46.2 lx
50%	76.9 lx

Conditions:
Number of c-planes: 8
Lux at center: 154 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORdash Par H7X IP: Standard Optics - Red Only - -

Report Summary

Output

Total Lumens: 528 lm
Peak Intensity: 3252 cd
Illuminance @ 5m: 130 lux
Fixture Efficacy: 46 lm/W

Optical

Horizontal Beam Angle (50%): 22.2°
Vertical Beam Angle (50%): 21.4°
Horizontal Field Angle (10%): 36.1°
Vertical Field Angle (10%): 35.3°
Horizontal Cutoff Angle (3%): 51.3°
Vertical Cutoff Angle (3%): 50.2°

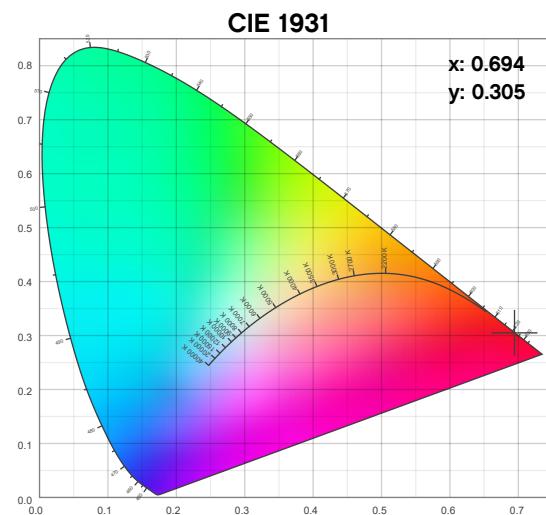
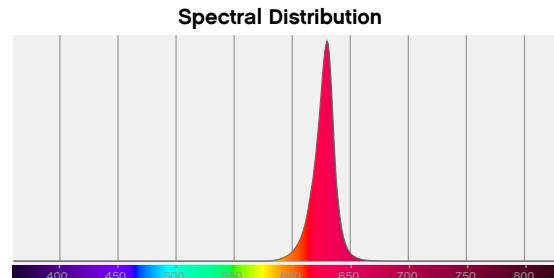
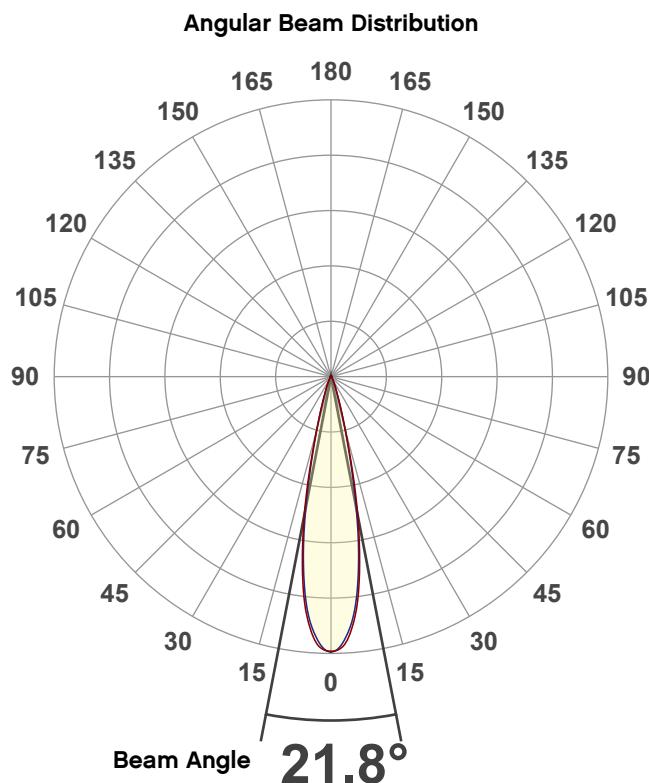


Conditions

AC Supply: 119 V, 60 Hz
Power: 12.44 W
Current: 0.104 A
Power Factor: 0.91

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 10/5/2022 to LM-63-2002 Standards.

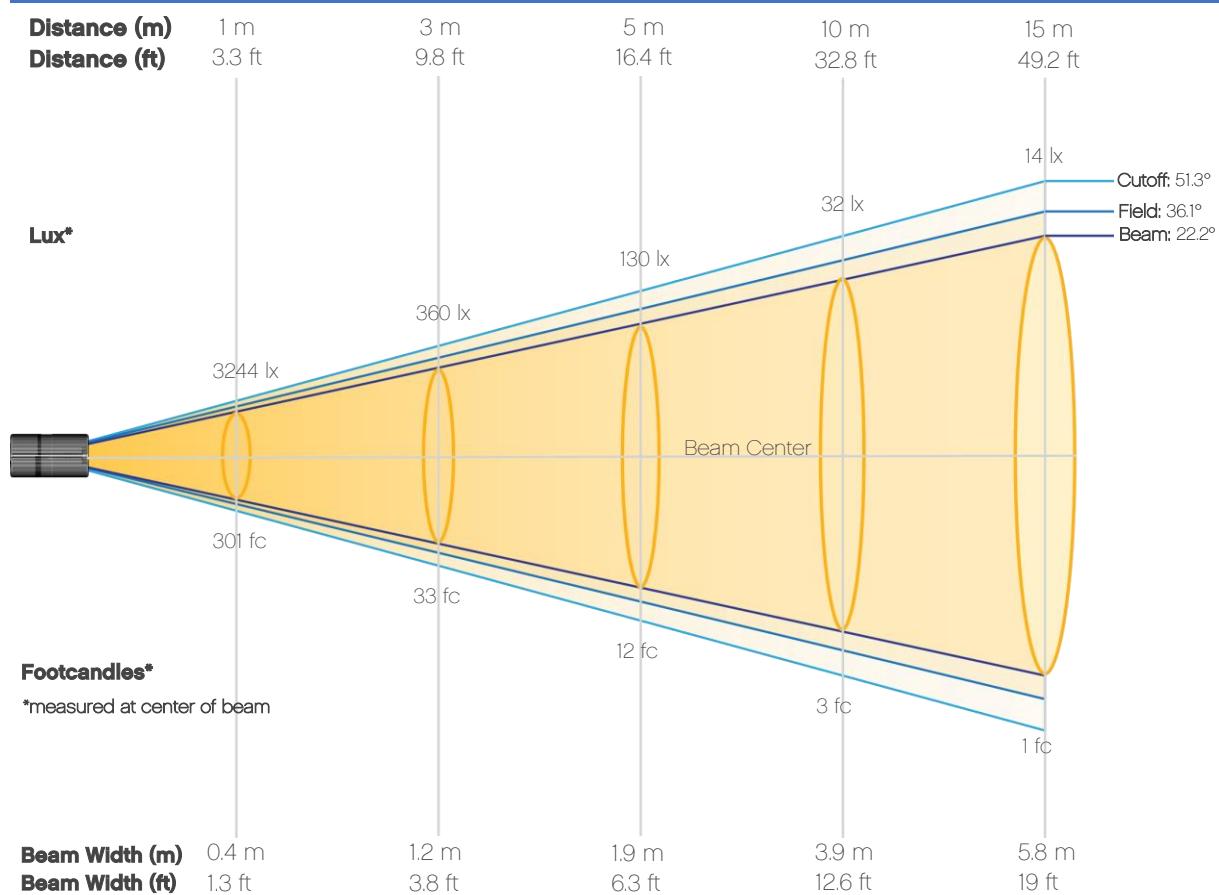
Overall Measurement



Photometric Report

COLORdash Par H7X IP: Standard Optics - Red Only - -

Beam Details



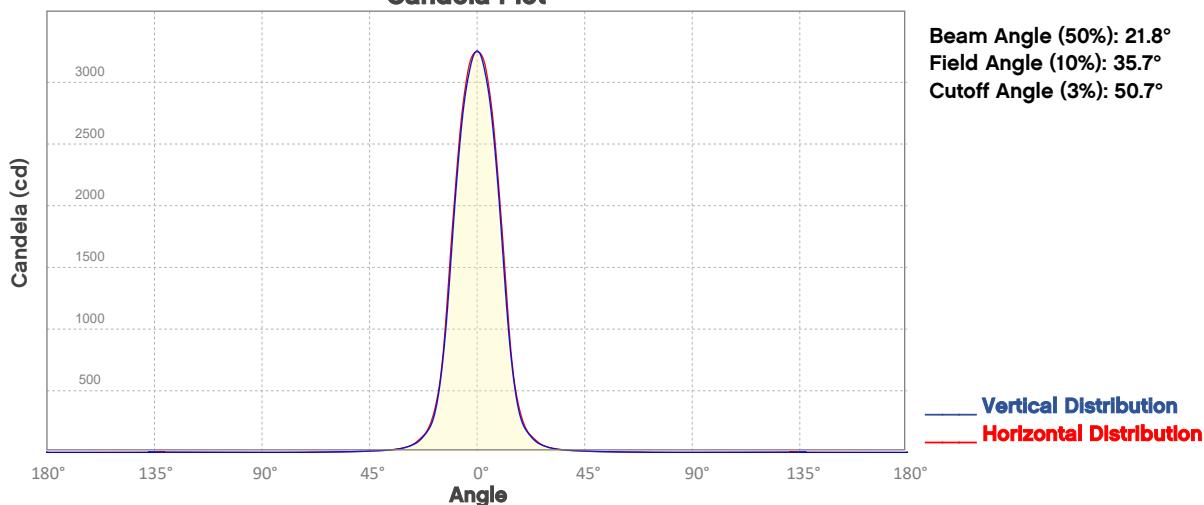
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3244	811	360	203	130	90	66	51	40	32
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	27	23	19	17	14	13	11	10	9	8
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	301	75	33	19	12	8	6	5	4	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	2	2	1	1	1	1	1	1

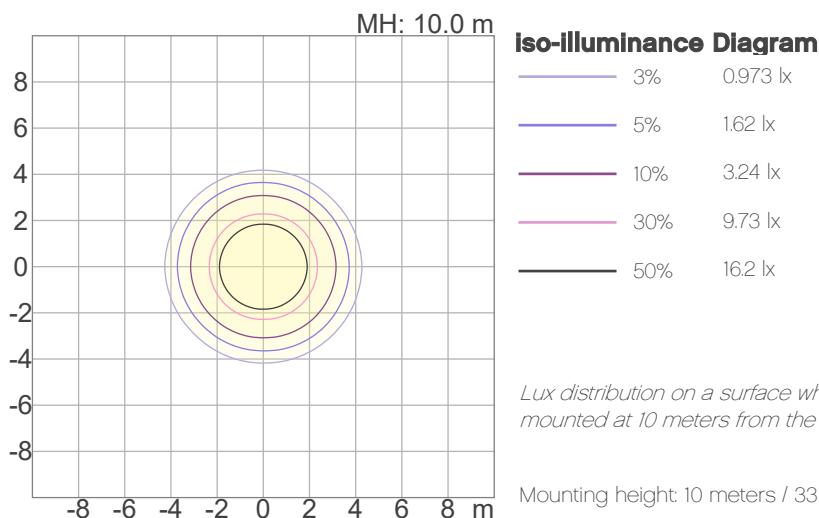
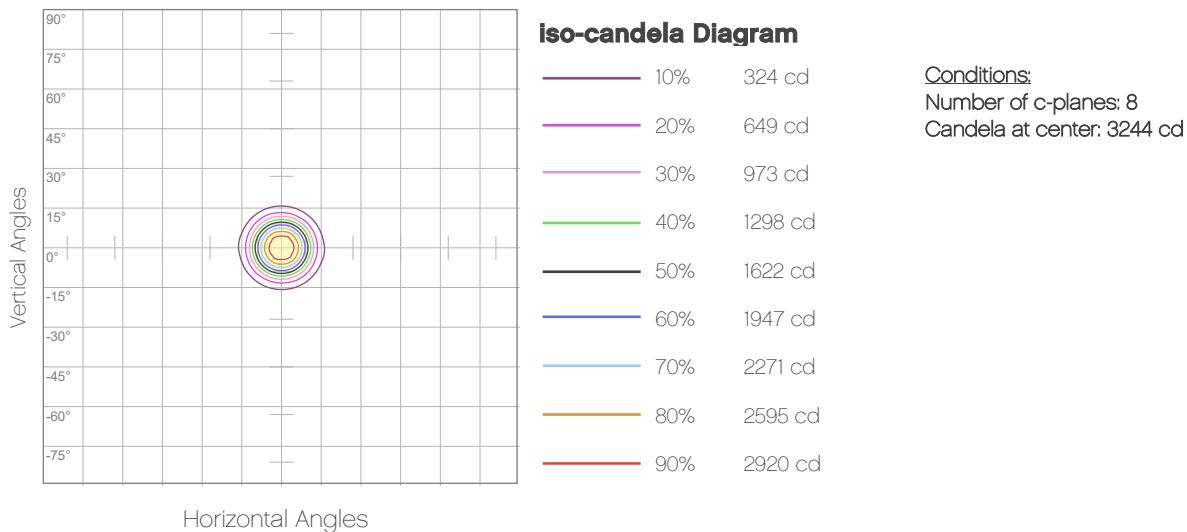
Photometric Report

COLORdash Par H7X IP: Standard Optics - Red Only - -

Candela Plot



Polar Diagrams



Photometric Report

COLORdash Par H7X IP: Standard Optics - Green Only - -

Report Summary

Output

Total Lumens: 872 lm
Peak Intensity: 4171 cd
Illuminance @ 5m: 166 lux
Fixture Efficacy: 60 lm/W

Optical

Horizontal Beam Angle (50%): 24.8°
Vertical Beam Angle (50%): 25.1°
Horizontal Field Angle (10%): 40.5°
Vertical Field Angle (10%): 40.6°
Horizontal Cutoff Angle (3%): 55.7°
Vertical Cutoff Angle (3%): 55.4°

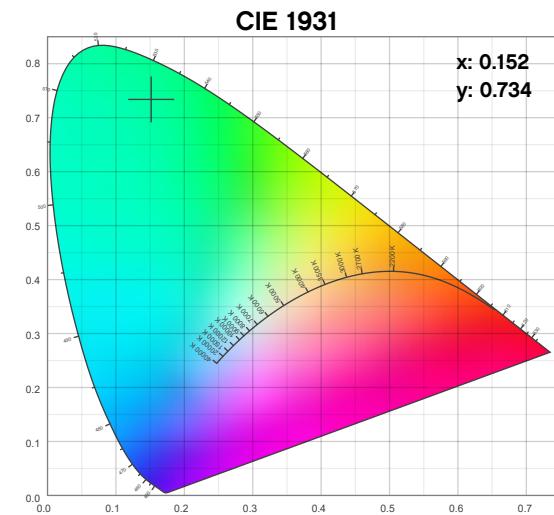
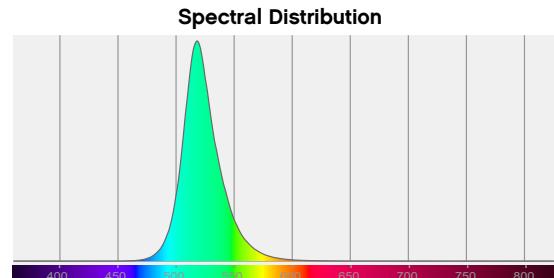
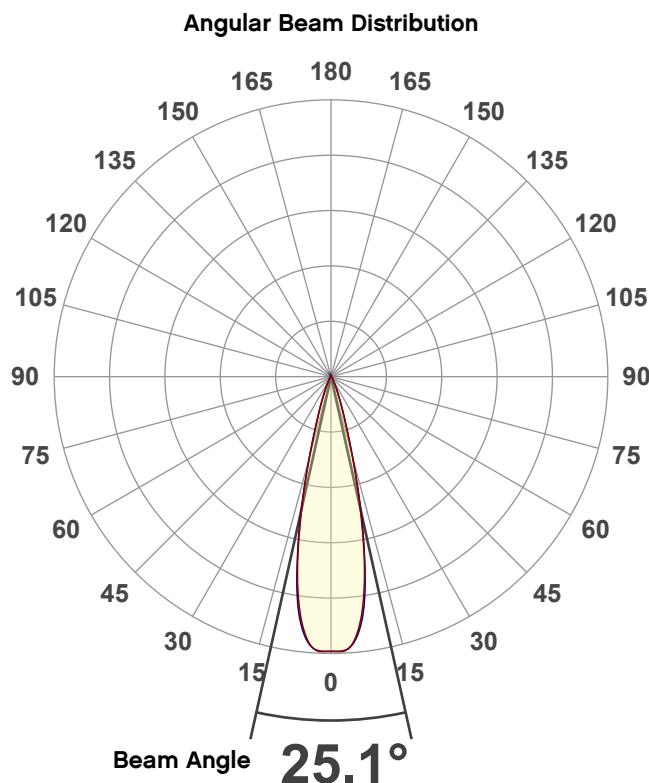


Conditions

AC Supply: 119 V, 60 Hz
Power: 15.73 W
Current: 0.132 A
Power Factor: 0.93

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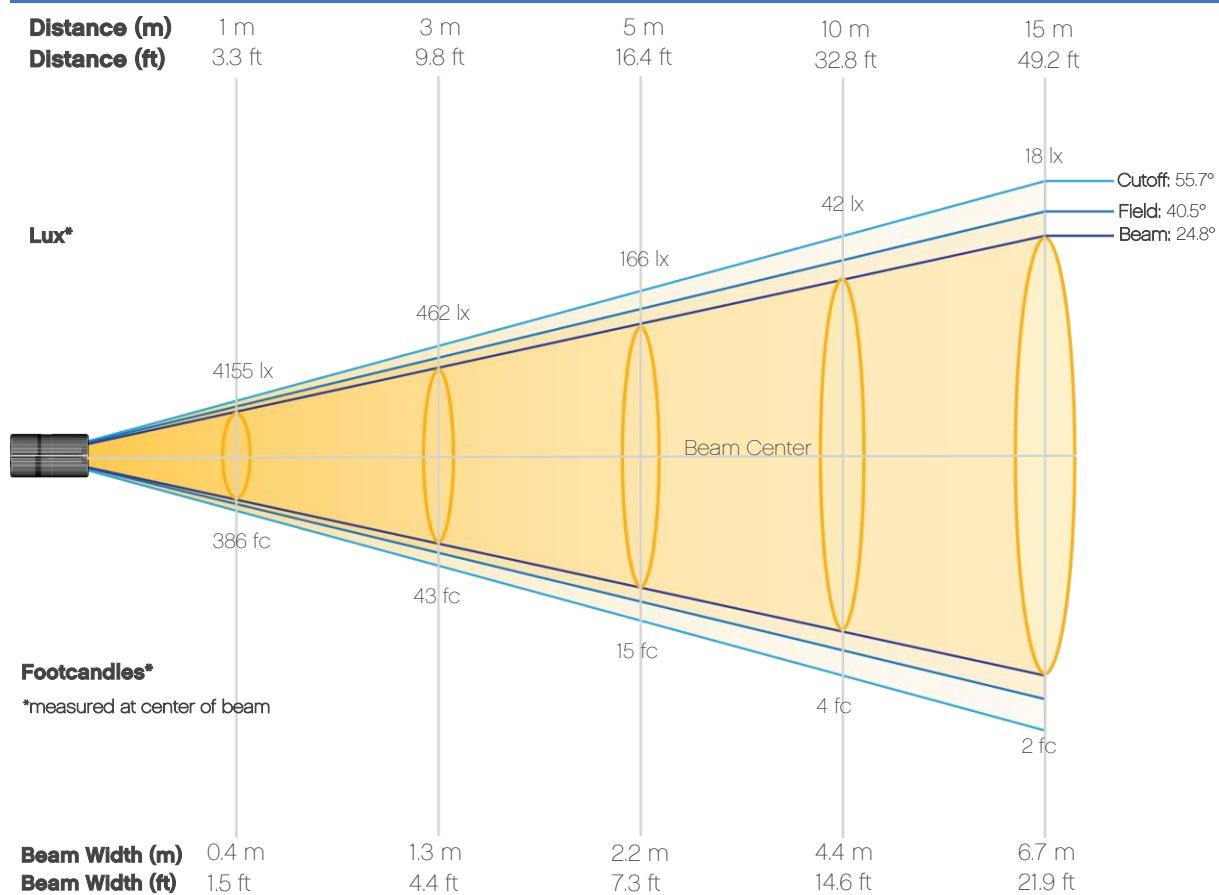
Overall Measurement



Photometric Report

COLORdash Par H7X IP: Standard Optics - Green Only - -

Beam Details



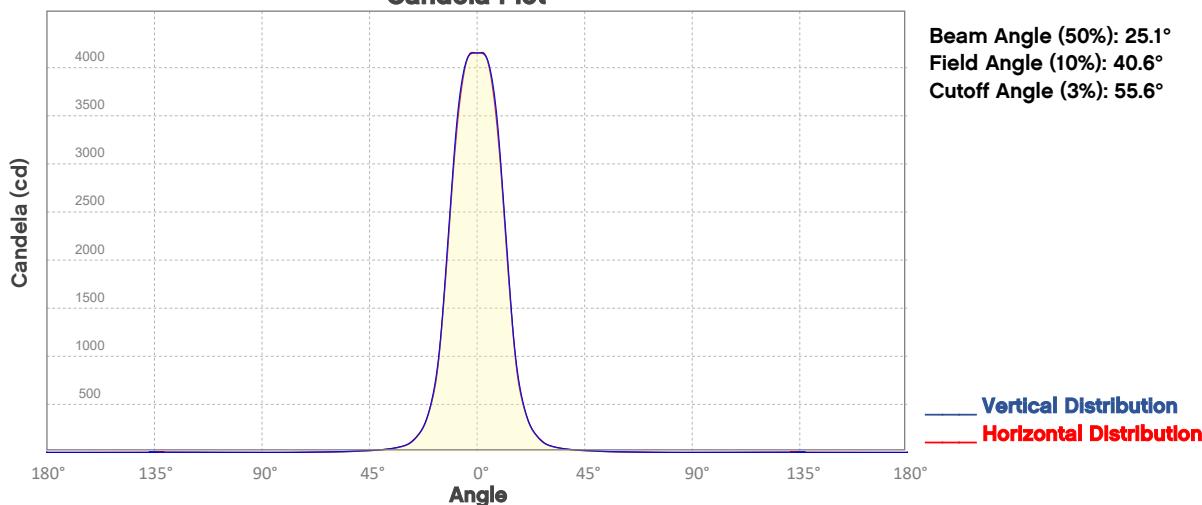
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4155	1039	462	260	166	115	85	65	51	42
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	34	29	25	21	18	16	14	13	12	10
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	386	96	43	24	15	11	8	6	5	4
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	3	3	2	2	2	2	1	1	1	1

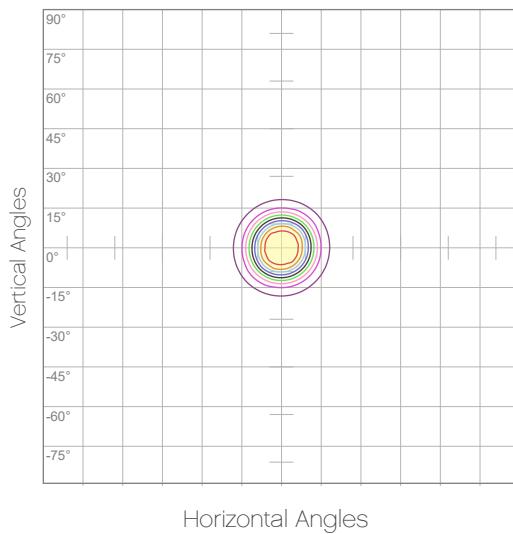
Photometric Report

COLORdash Par H7X IP: Standard Optics - Green Only - -

Candela Plot



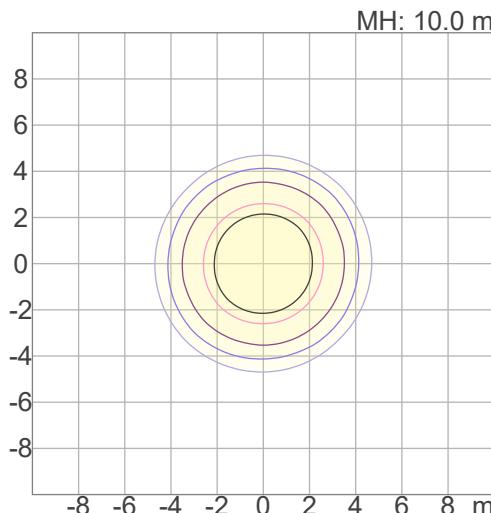
Polar Diagrams



Iso-candela Diagram

10%	415 cd
20%	831 cd
30%	1246 cd
40%	1662 cd
50%	2077 cd
60%	2493 cd
70%	2908 cd
80%	3324 cd
90%	3739 cd

Conditions:
Number of c-planes: 8
Candela at center: 4155 cd



Iso-illuminance Diagram

3%	1.25 lx
5%	2.08 lx
10%	4.15 lx
30%	12.5 lx
50%	20.8 lx

Conditions:
Number of c-planes: 8
Lux at center: 41.5 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORdash Par H7X IP: Standard Optics - Blue Only -

Report Summary

Output

Total Lumens: 182 lm

Peak Intensity: 708 cd

Illuminance @ 5m: 27 lux

Fixture Efficacy: 12 lm/W

Optical

Horizontal Beam Angle (50%): 27.7°

Vertical Beam Angle (50%): 28 °

Horizontal Field Angle (10%): 43.6°

Vertical Field Angle (10%): 44.3°

Horizontal Cutoff Angle (3%): 59.9°

Vertical Cutoff Angle (3%): 60°

Conditions

AC Supply: 119 V, 60 Hz

Power: 16.01 W

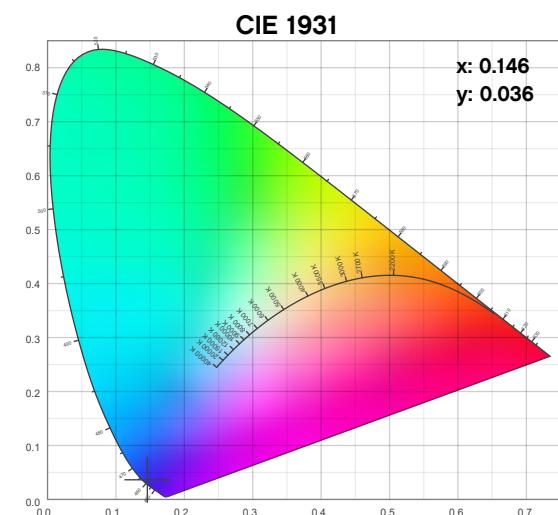
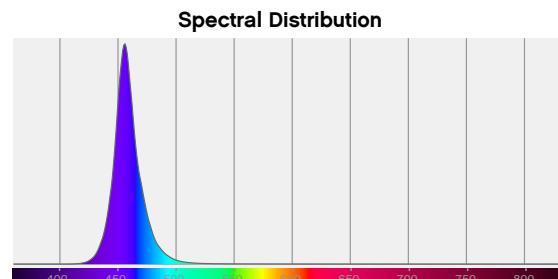
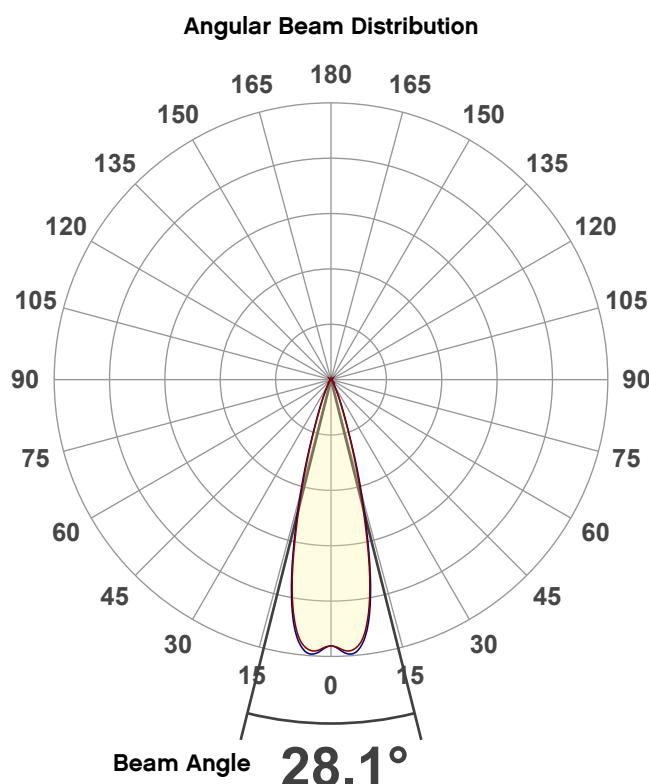
Current: 0.134 A

Power Factor: 0.93

A black LED stage light fixture with a rectangular frame and a circular lens containing six blue lights.

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpiron Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/5/2022 to LM-63-2002 Standards.

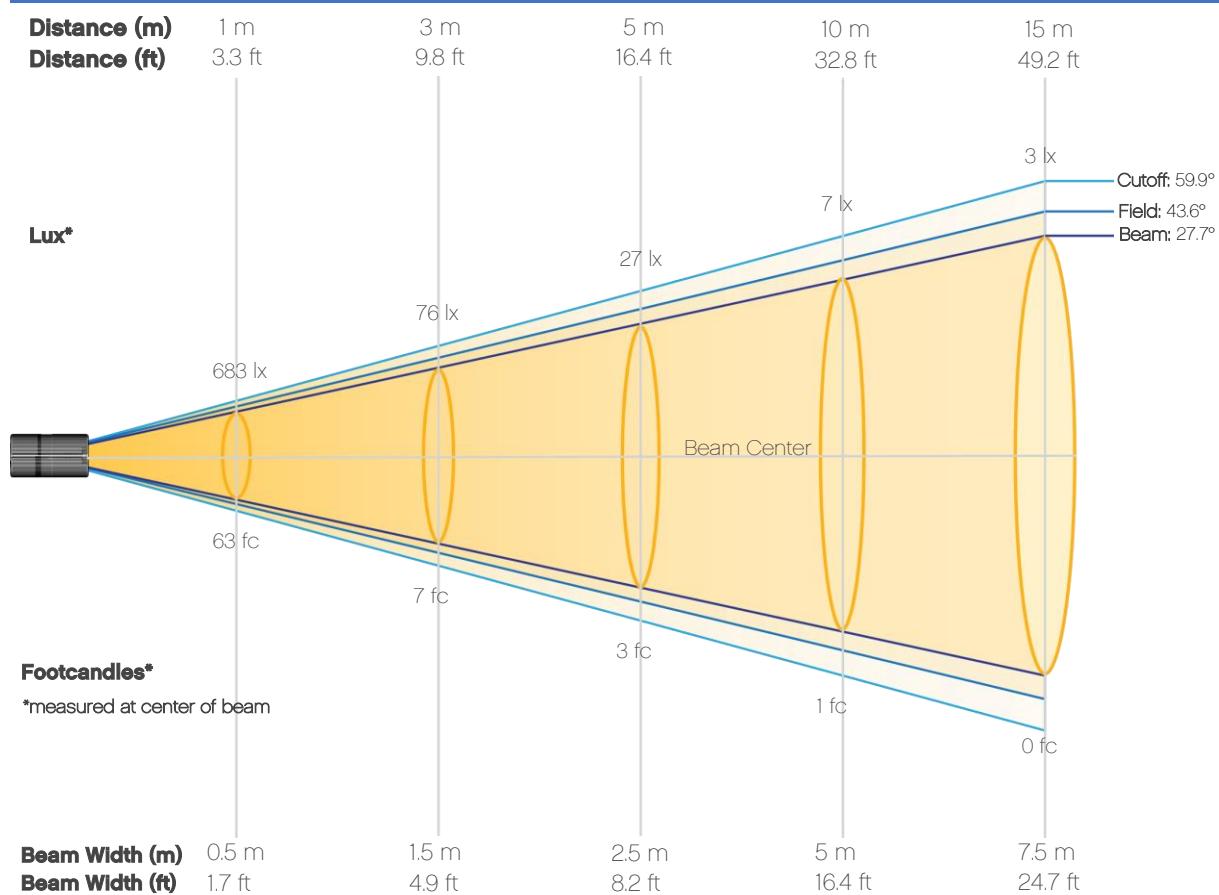
Overall Measurement



Photometric Report

COLORdash Par H7X IP: Standard Optics - Blue Only - -

Beam Details

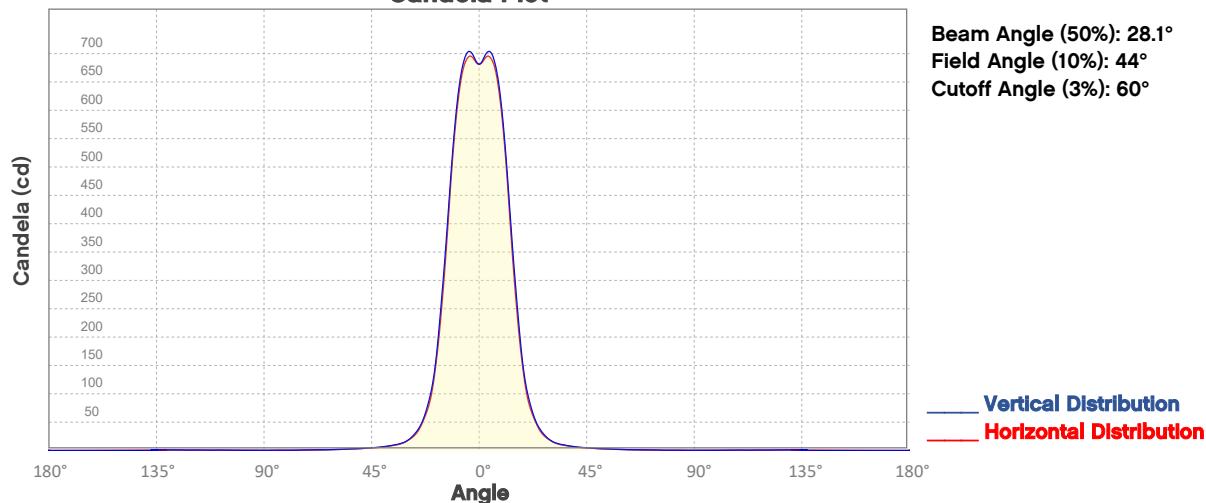


Beam Illuminances from 1-20m (3.3-65.6ft)

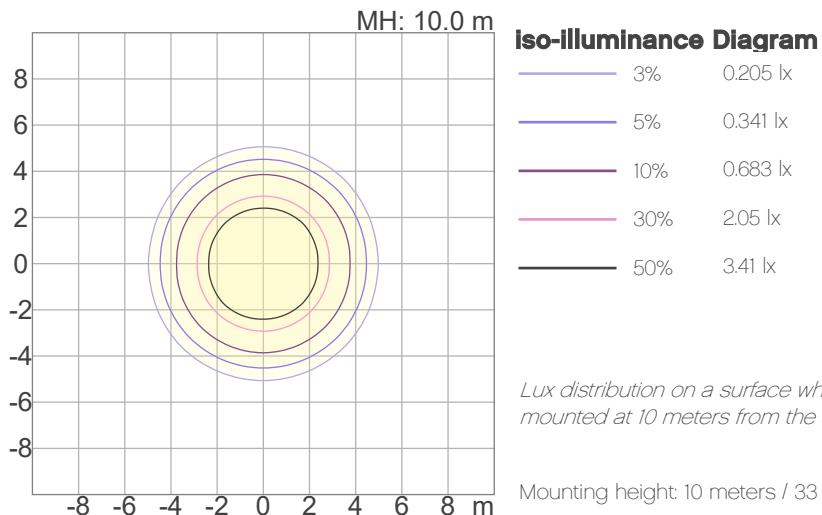
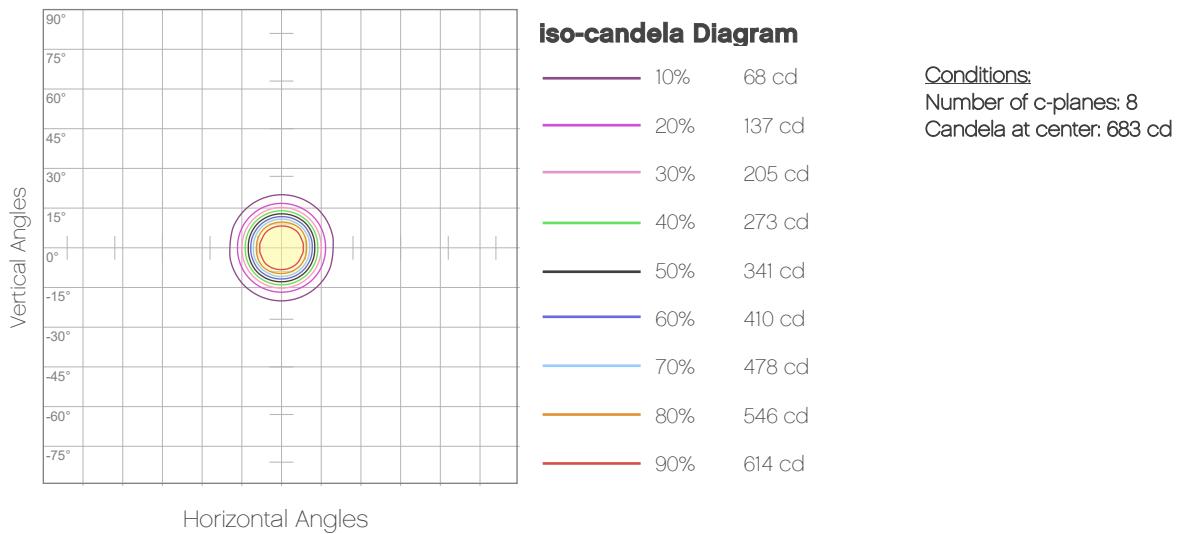
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	683	171	76	43	27	19	14	11	8	7
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
LUX	6	5	4	3	3	3	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	63	16	7	4	3	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	0	0	0	0	0	0	0	0	0

Photometric Report

COLORdash Par H7X IP: Standard Optics - Blue Only - -
Candela Plot



Polar Diagrams



Photometric Report

COLORdash Par H7X IP: Standard Optics - Amber Only -

Report Summary

Output

Total Lumens: 424 lm

Peak Intensity: 1671 cd

Illuminance @ 5m: 65 lux

Fixture Efficacy: 36 lm/W

Optical

Horizontal Beam Angle (50%): 28.4°

Vertical Beam Angle (50%): 28.7°

Horizontal Field Angle (10%): 42.4°

Vertical Field Angle (10%): 43.1°

Horizontal Cutoff Angle (3%): 58.3°

Vertical Cutoff Angle (3%): 58.4°

Conditions

AC Supply: 119 V, 60 Hz

Power: 12.94 W

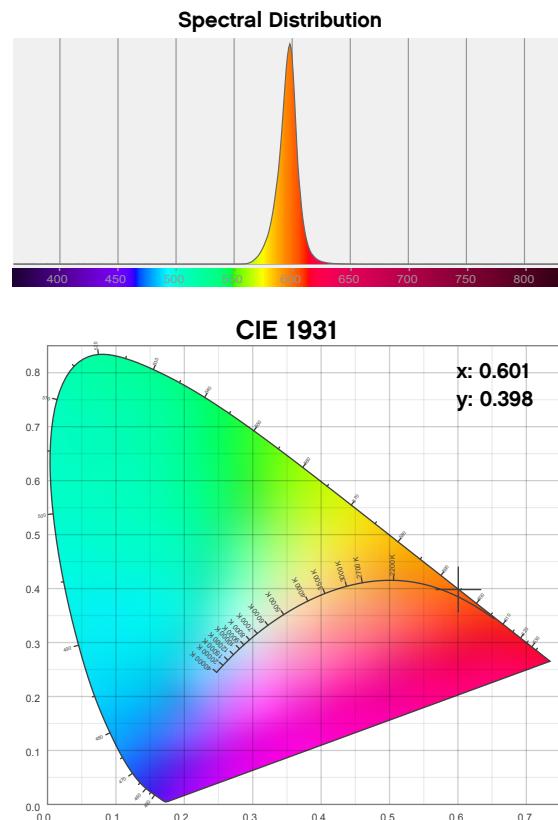
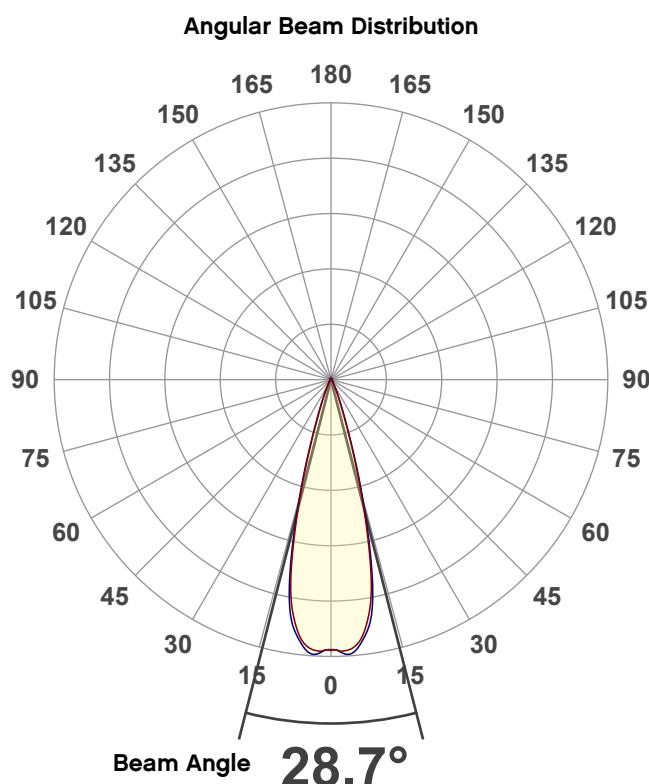
Power: 12.51 W

Current: 0.165 A

A black LED stage light fixture with a rectangular frame and a circular lens containing six blue lights.

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpiron Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/5/2022 to LM-63-2002 Standards.

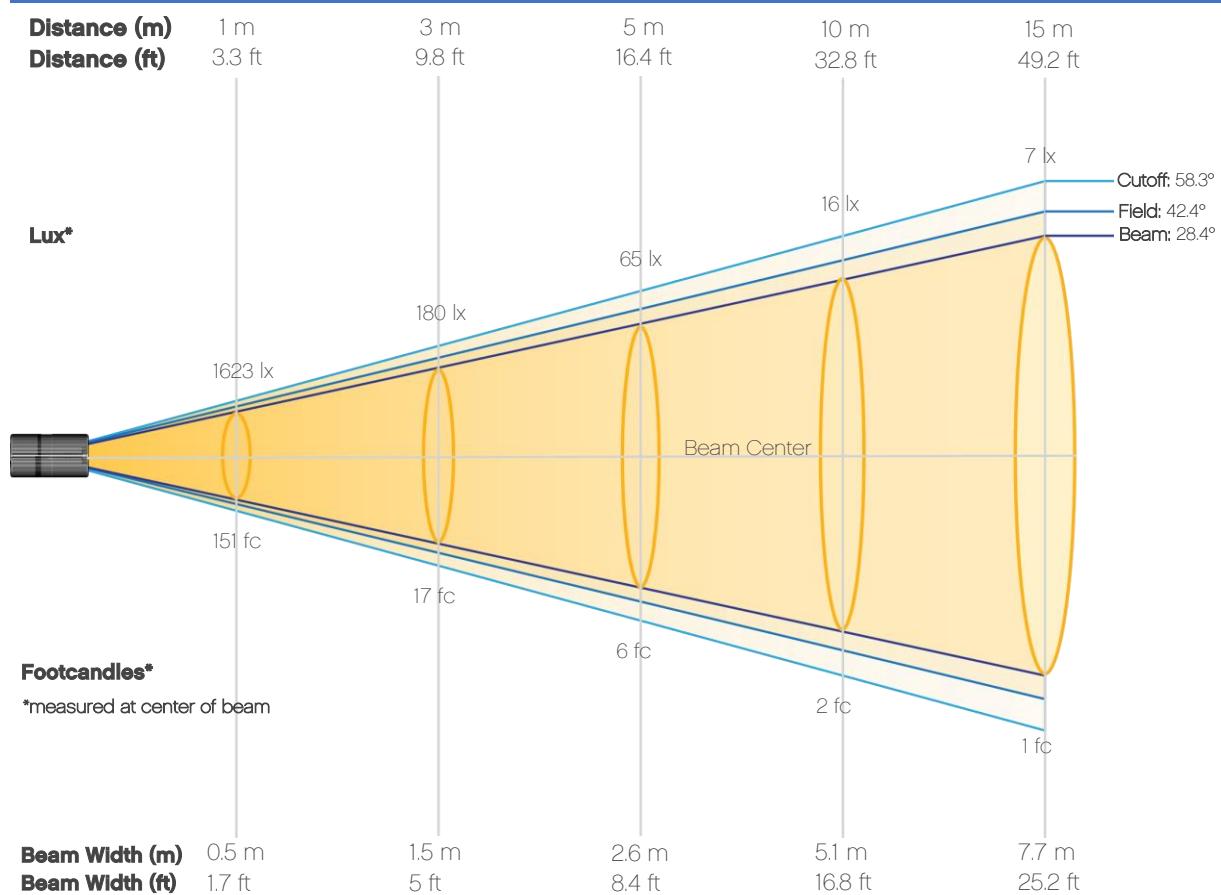
Overall Measurement



Photometric Report

COLORdash Par H7X IP: Standard Optics - Amber Only - -

Beam Details

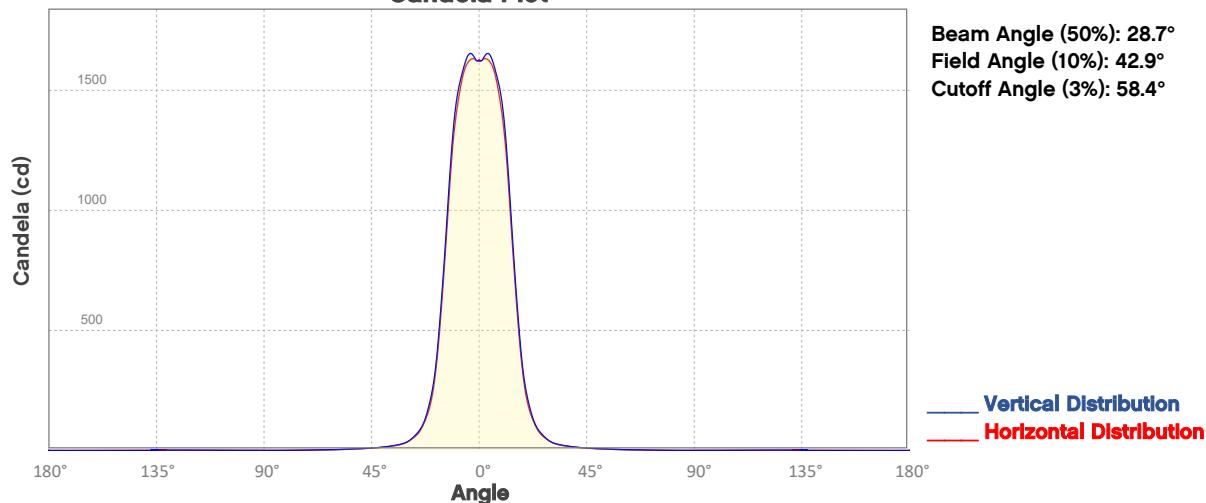


Beam Illuminances from 1-20m (3.3-65.6ft)

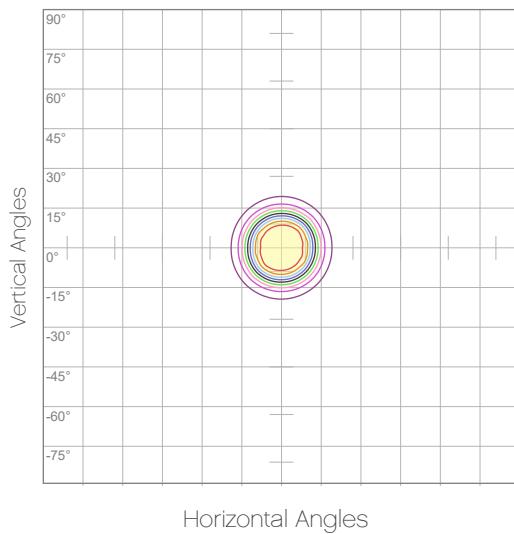
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1623	406	180	101	65	45	33	25	20	16
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	13	11	10	8	7	6	6	5	4	4
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	151	38	17	9	6	4	3	2	2	2
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	1	1	1	0	0	0

Photometric Report

COLORdash Par H7X IP: Standard Optics - Amber Only -
Candela Plot



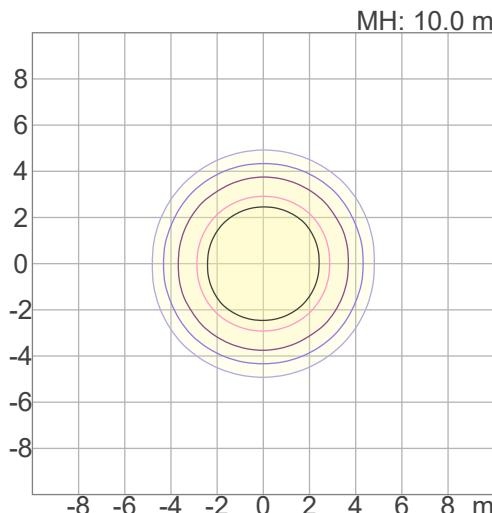
Polar Diagrams



Iso-candela Diagram

10%	162 cd
20%	325 cd
30%	487 cd
40%	649 cd
50%	812 cd
60%	974 cd
70%	1136 cd
80%	1298 cd
90%	1461 cd

Conditions:
Number of c-planes: 8
Candela at center: 1623 cd



Iso-illuminance Diagram

3%	0.487 lx
5%	0.812 lx
10%	1.62 lx
30%	4.87 lx
50%	8.12 lx

Conditions:
Number of c-planes: 8
Lux at center: 16.2 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORdash Par H7X IP: Standard Optics - White Only -

Report Summary

Output

Total Lumens: 1019 lm
Peak Intensity: 6465 cd
Illuminance @ 5m: 258 lux
Fixture Efficacy: 70 lm/W



Optical

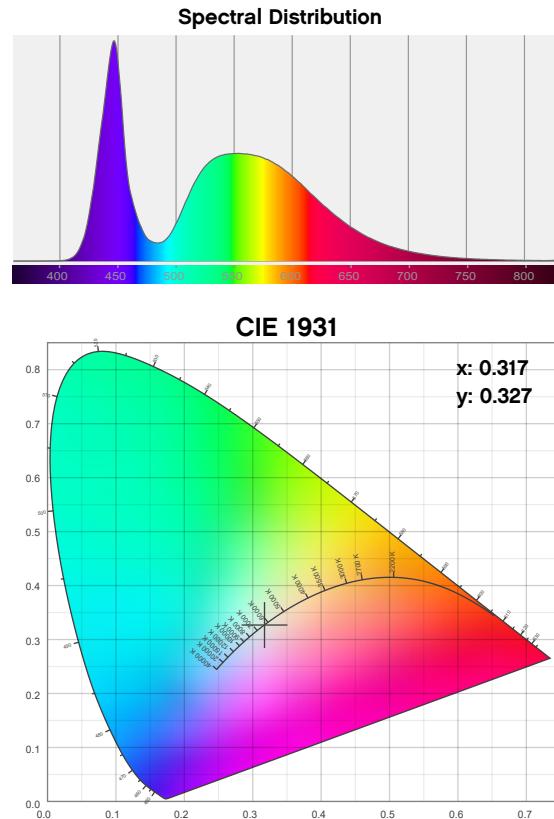
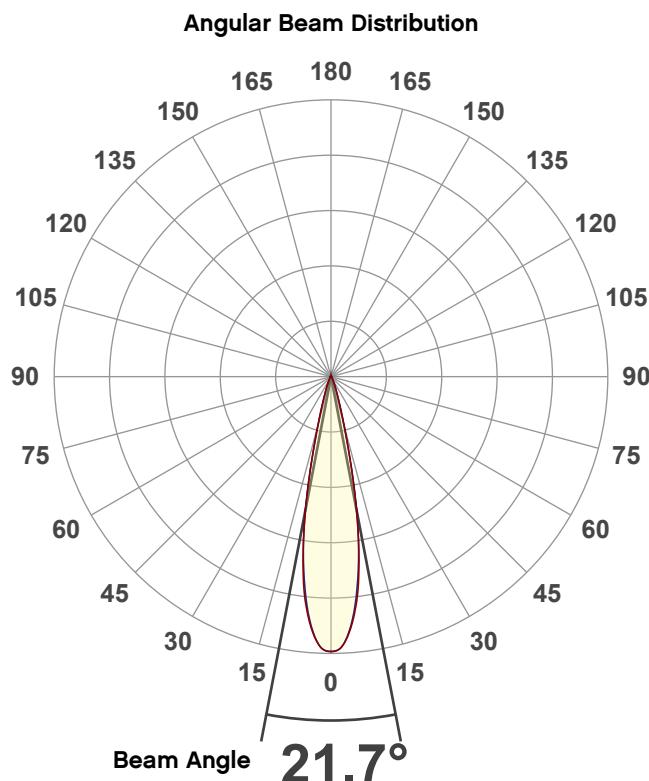
Horizontal Beam Angle (50%): 21.5°
Vertical Beam Angle (50%): 21.6°
Horizontal Field Angle (10%): 34.9°
Vertical Field Angle (10%): 35.1°
Horizontal Cutoff Angle (3%): 50.4°
Vertical Cutoff Angle (3%): 49.9°

Conditions

AC Supply: 119 V, 60 Hz
Power: 15.62 W
Current: 0.131 A
Power Factor: 0.93

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 10/5/2022 to LM-63-2002 Standards.

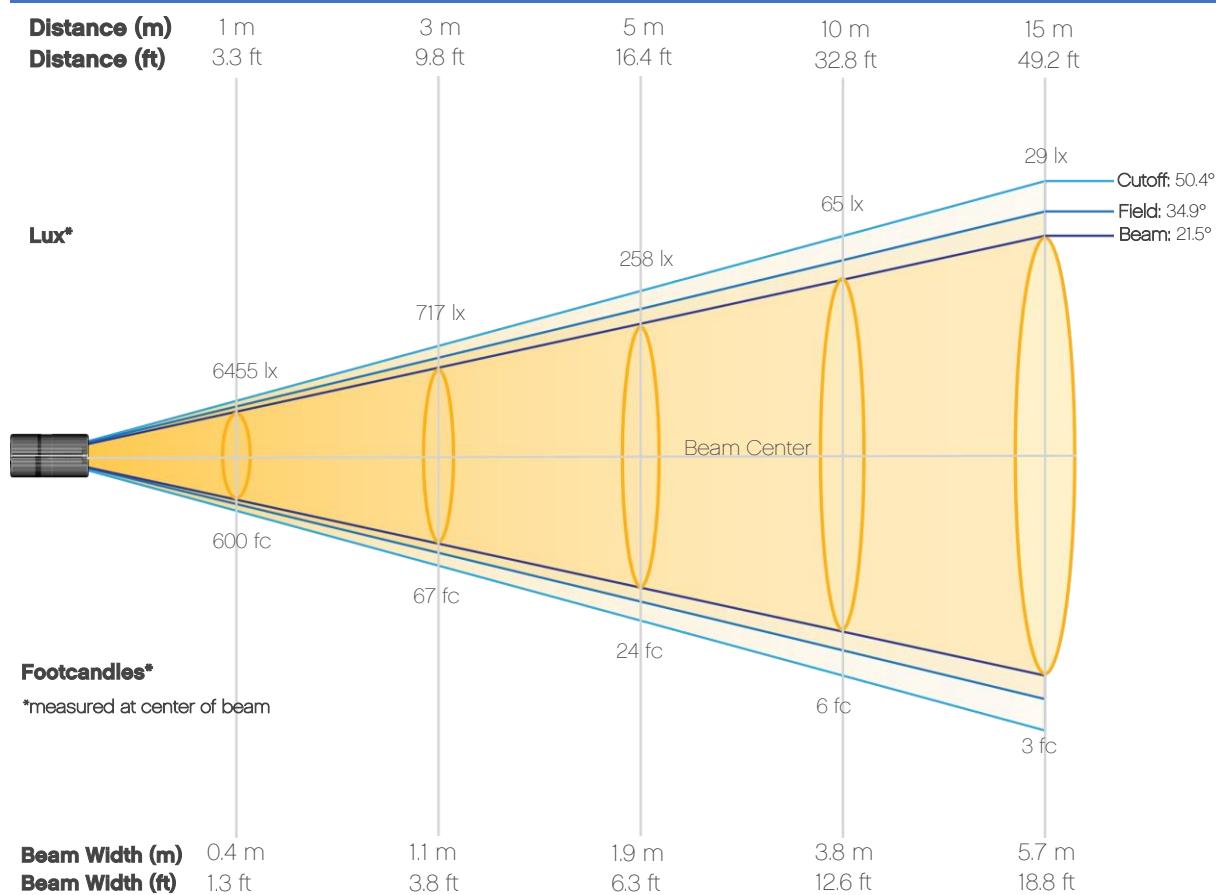
Overall Measurement



Photometric Report

COLORdash Par H7X IP: Standard Optics - White Only - -

Beam Details



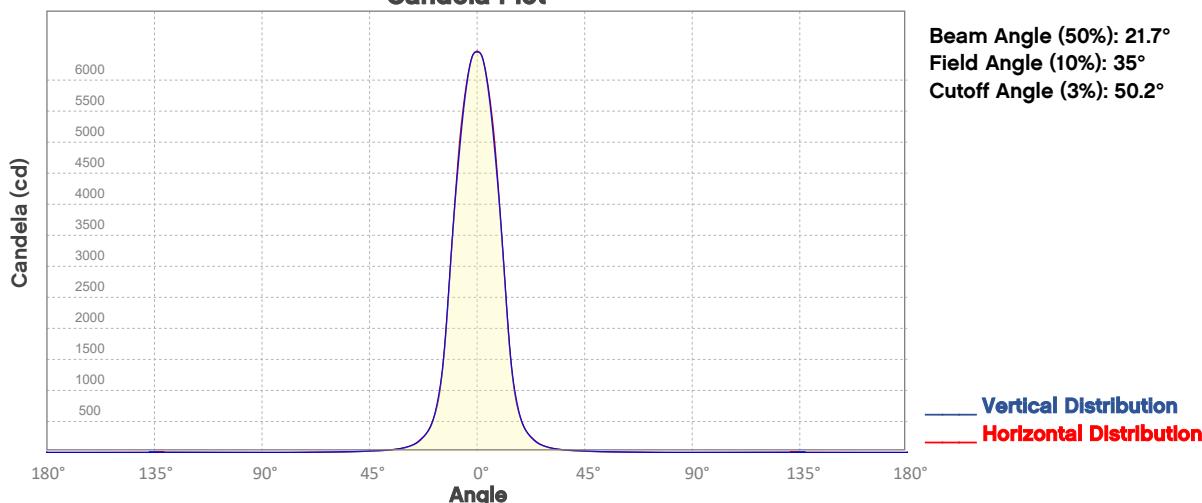
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	6455	1614	717	403	258	179	132	101	80	65
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	53	45	38	33	29	25	22	20	18	16
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	600	150	67	37	24	17	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	4	3	3	2	2	2	2	1

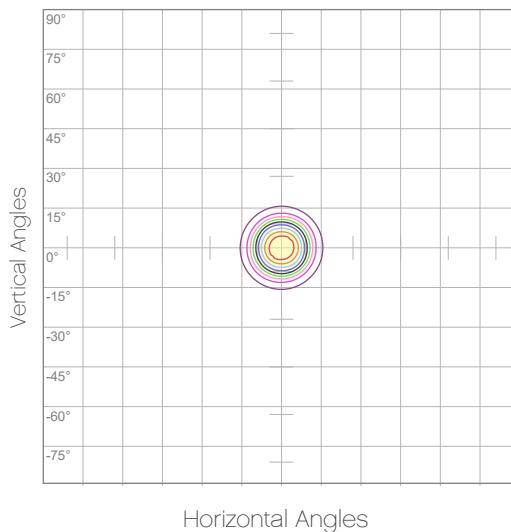
Photometric Report

COLORdash Par H7X IP: Standard Optics - White Only -

Candela Plot



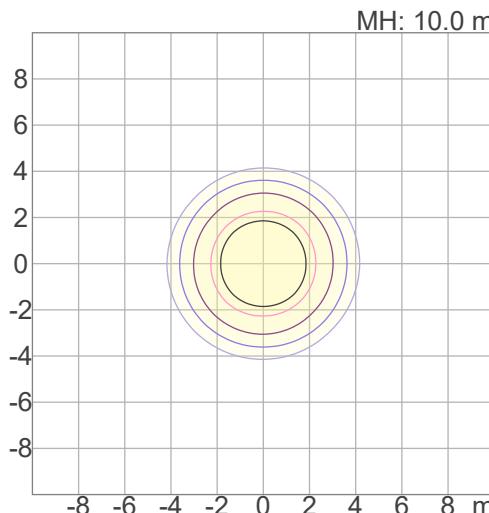
Polar Diagrams



Iso-candela Diagram

10%	646 cd
20%	1291 cd
30%	1937 cd
40%	2582 cd
50%	3228 cd
60%	3873 cd
70%	4519 cd
80%	5164 cd
90%	5810 cd

Conditions:
Number of c-planes: 8
Candela at center: 6455 cd



Iso-illuminance Diagram

3%	1.94 lx
5%	3.23 lx
10%	6.46 lx
30%	19.4 lx
50%	32.3 lx

Conditions:
Number of c-planes: 8
Lux at center: 64.6 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORdash Par H7X IP: Standard Optics - UV Only -

Report Summary

Output

Total Lumens: 17.6 lm

Peak Intensity: 53.5 cd

Illuminance @ 5m: 2 lux

Fixture Efficacy: 1 lm/W

Optical

Horizontal Beam Angle (50%): 23.9°

Vertical Beam Angle (50%): 23.8°

Horizontal Field Angle (10%): 40°

Vertical Field Angle (10%): 39.5°

Horizontal Cutoff Angle (3%): 64.8°

Vertical Cutoff Angle (3%): 69.2°

Conditions

AC Supply: 119 V, 60 Hz

Power: 17.71 W

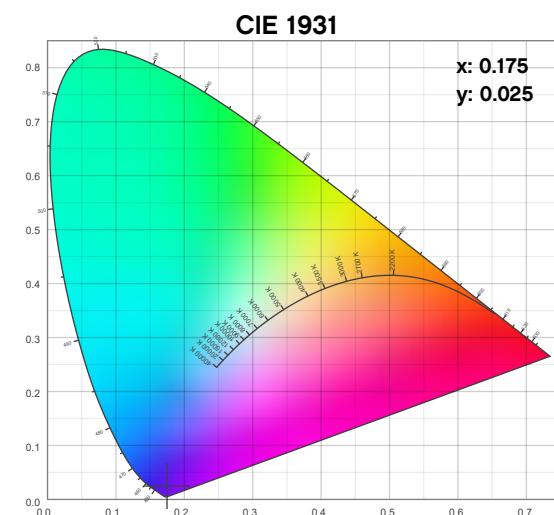
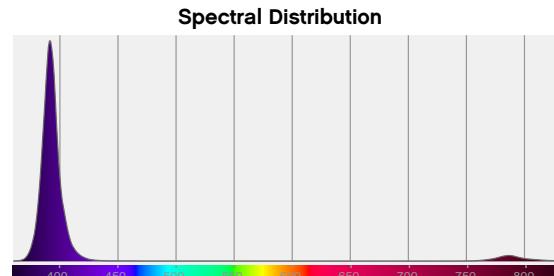
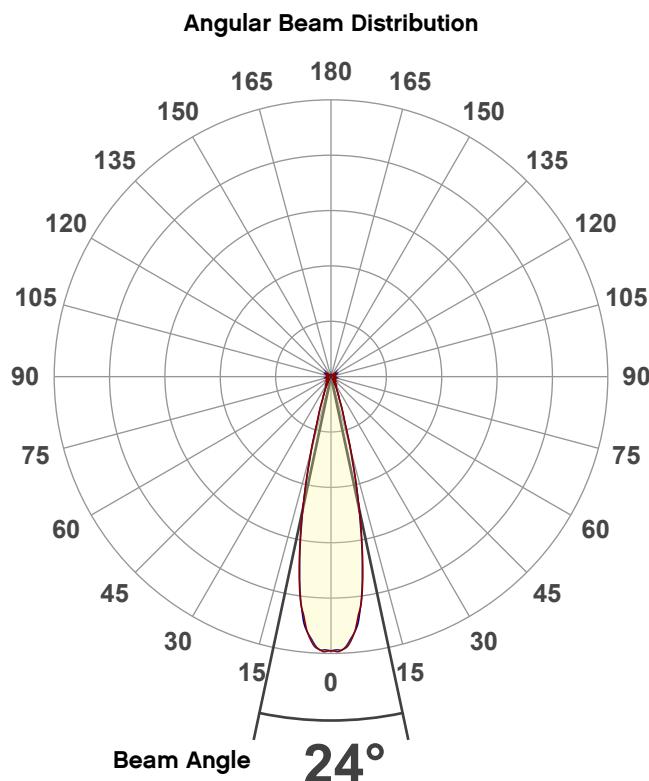
Current: 0.148 A

Power Factor: 0.9

A black, rectangular LED stage light fixture with a handle and a circular lens containing six blue lights.

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 10/5/2022 to LM-63-2002 Standards.

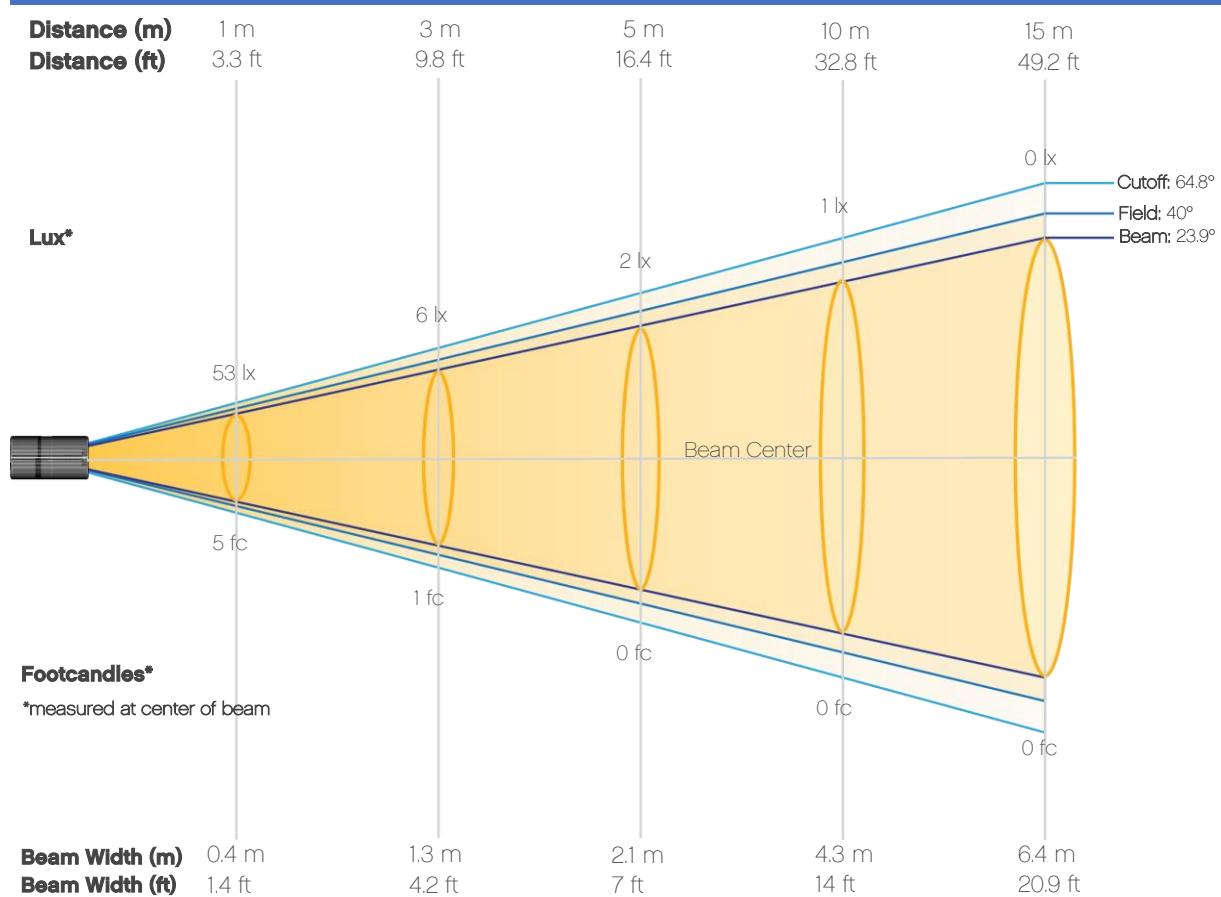
Overall Measurement



Photometric Report

COLORdash Par H7X IP: Standard Optics - UV Only - -

Beam Details



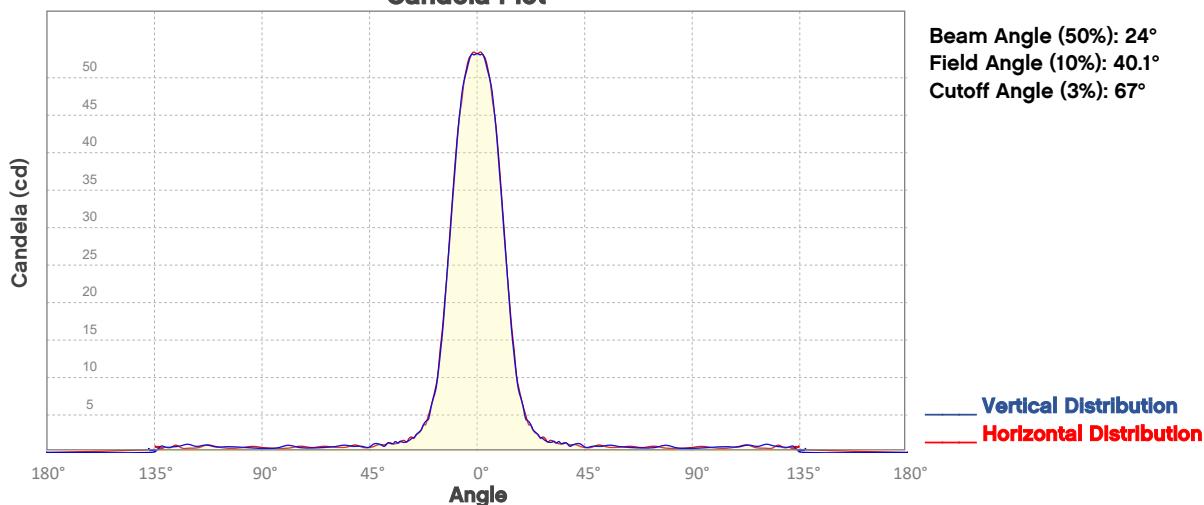
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	53	13	6	3	2	1	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	5	1	1	0	0	0	0	0	0	0
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

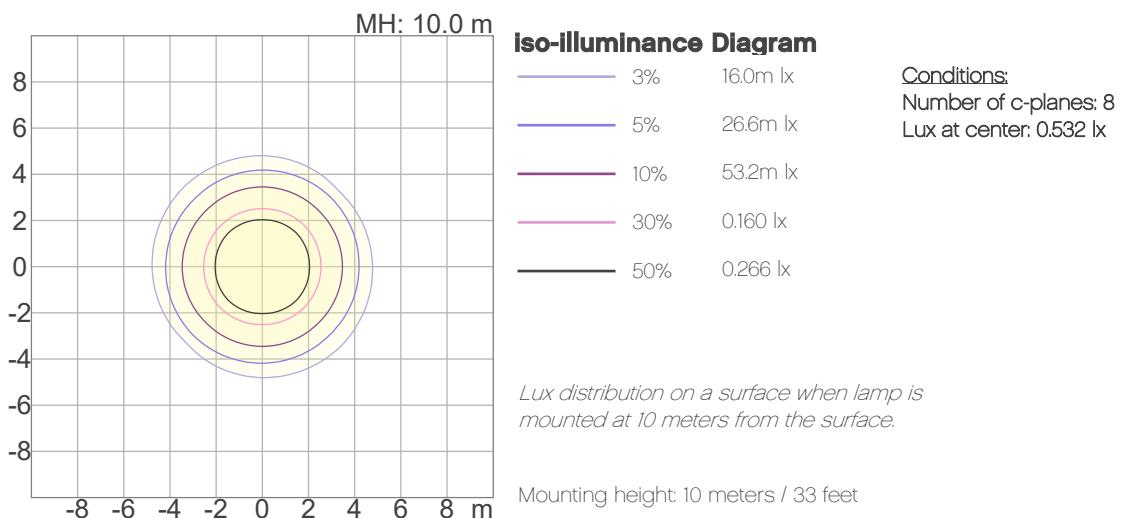
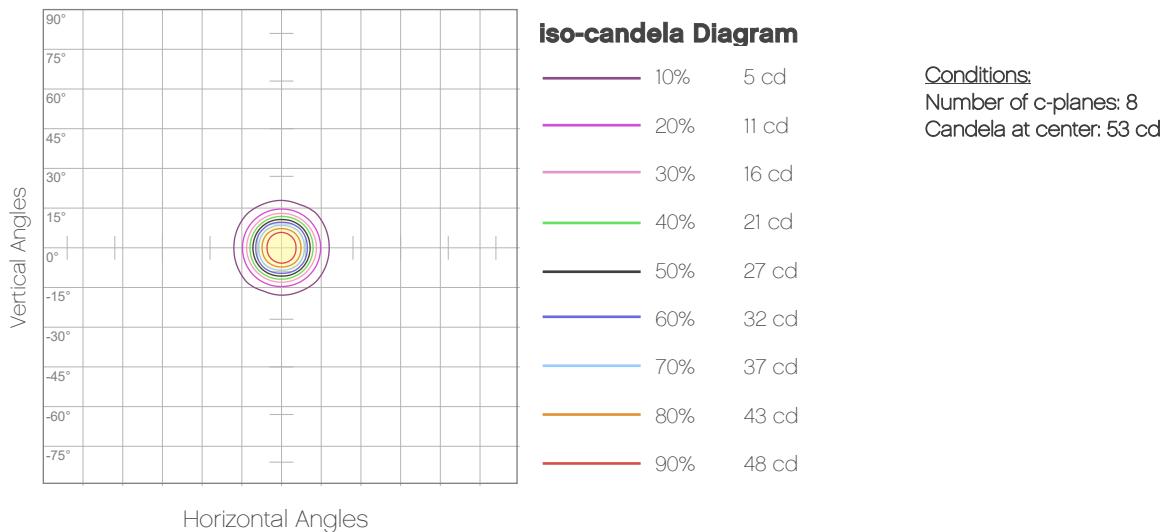
Photometric Report

COLORdash Par H7X IP: Standard Optics - UV Only - -

Candela Plot



Polar Diagrams



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.