

COLORdash Par-H7X

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.

COLOR*dash* Par-H7X

**Photometrics &
Chromaticity
Reports**

Photometric Report

COLORdash Par H7X: Standard Optics - Full Power - -

Report Summary

Output

Total Lumens: 2738 lm
Peak Intensity: 14499 cd
Illuminance @ 5m: 579 lux
Fixture Efficacy: 38 lm/W

Optical

Horizontal Beam Angle (50%): 23.6°
Vertical Beam Angle (50%): 23.6°
Horizontal Field Angle (10%): 38.7°
Vertical Field Angle (10%): 38.6°
Horizontal Cutoff Angle (3%): 54°
Vertical Cutoff Angle (3%): 54°

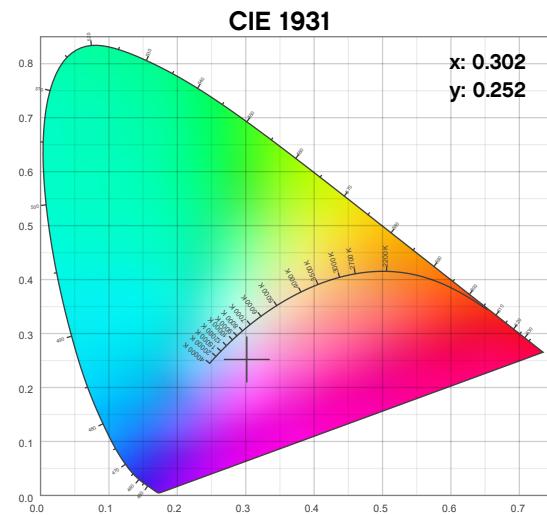
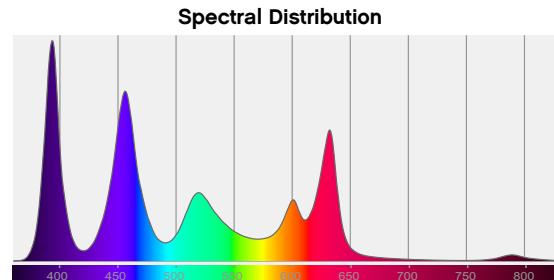
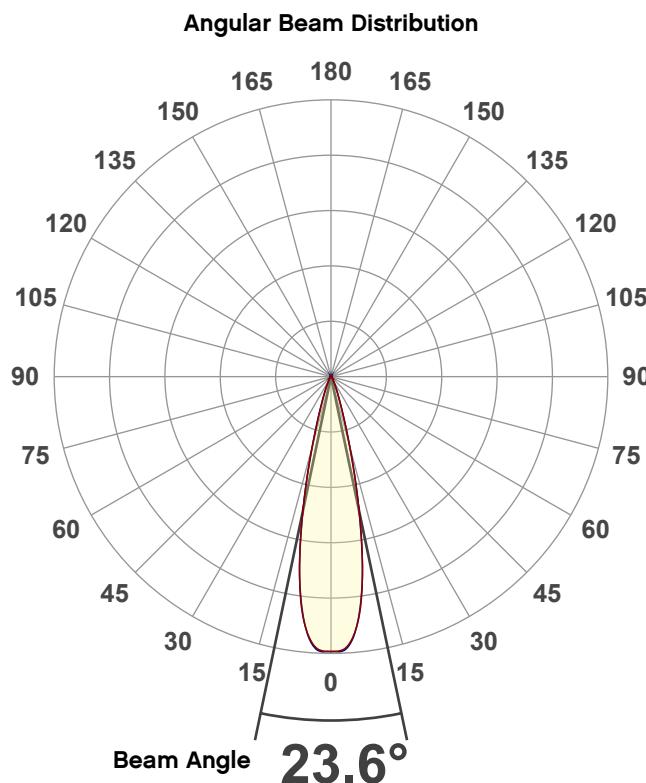


Conditions

AC Supply: 120 V, 60.1 Hz
Power: 73.13 W
Current: 0.611 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 10/10/2022 to LM-63-2002 Standards.

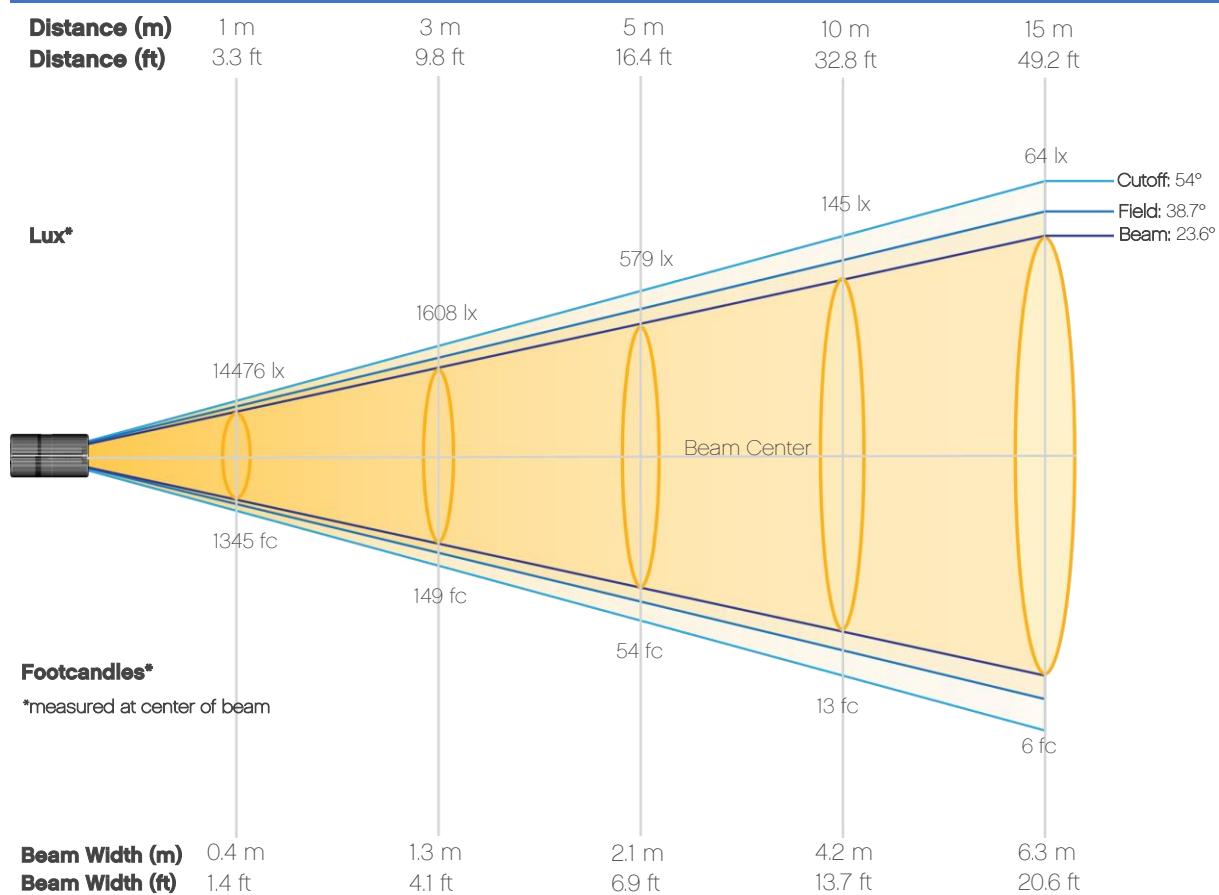
Overall Measurement



Photometric Report

COLORdash Par H7X: Standard Optics - Full Power - -

Beam Details



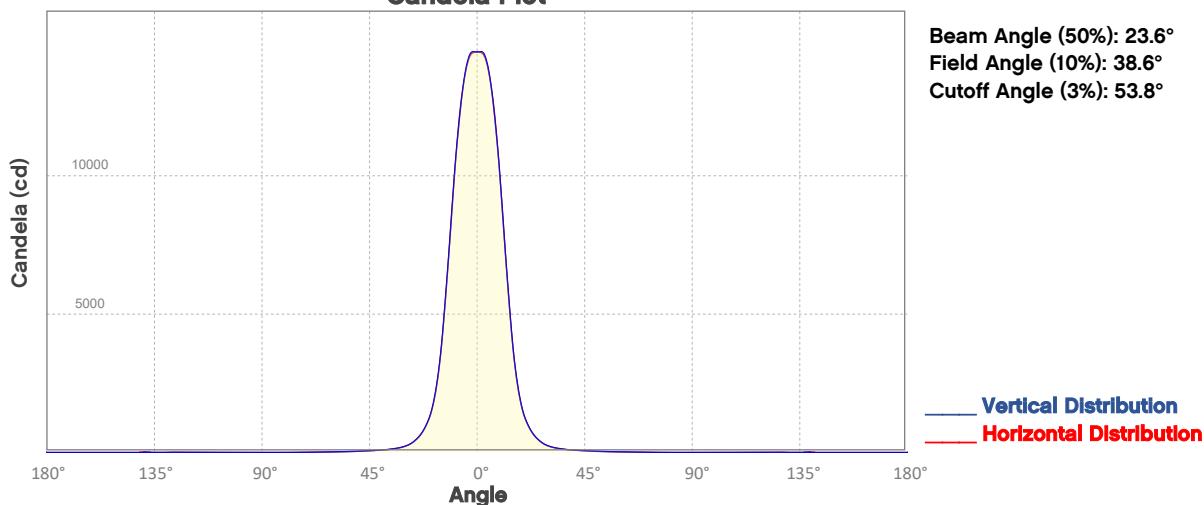
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	14476	3619	1608	905	579	402	295	226	179	145
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	120	101	86	74	64	57	50	45	40	36
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1345	336	149	84	54	37	27	21	17	13
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	11	9	8	7	6	5	5	4	4	3

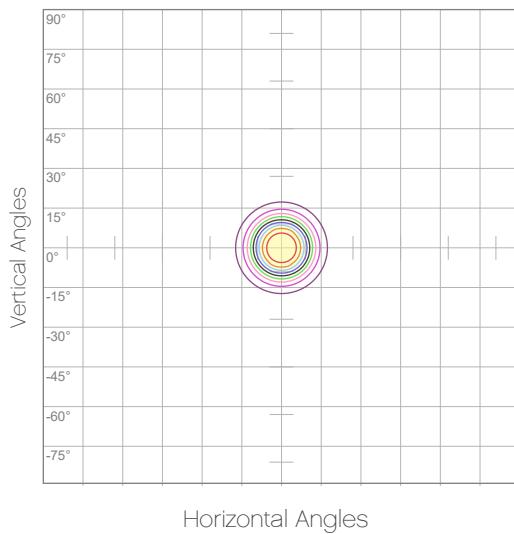
Photometric Report

COLORdash Par H7X: Standard Optics - Full Power - -

Candela Plot



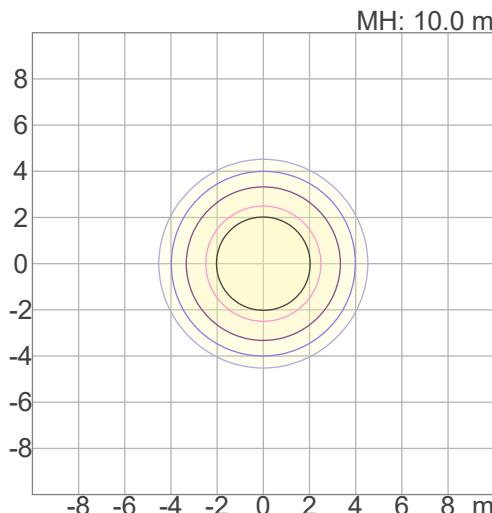
Polar Diagrams



Iso-candela Diagram

10%	1448 cd
20%	2895 cd
30%	4343 cd
40%	5791 cd
50%	7238 cd
60%	8686 cd
70%	10133 cd
80%	11581 cd
90%	13029 cd

Conditions:
Number of c-planes: 8
Candela at center: 14476 cd



Iso-illuminance Diagram

3%	4.34 lx
5%	7.24 lx
10%	14.5 lx
30%	43.4 lx
50%	72.4 lx

Conditions:
Number of c-planes: 8
Lux at center: 145 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: Standard Optics - Red Only - -

Report Summary

Output

Total Lumens: 510 lm
Peak Intensity: 3155 cd
Illuminance @ 5m: 126 lux
Fixture Efficacy: 47 lm/W

Optical

Horizontal Beam Angle (50%): 21.7°
Vertical Beam Angle (50%): 21.2°
Horizontal Field Angle (10%): 35.6°
Vertical Field Angle (10%): 35.7°
Horizontal Cutoff Angle (3%): 50.9°
Vertical Cutoff Angle (3%): 50.8°

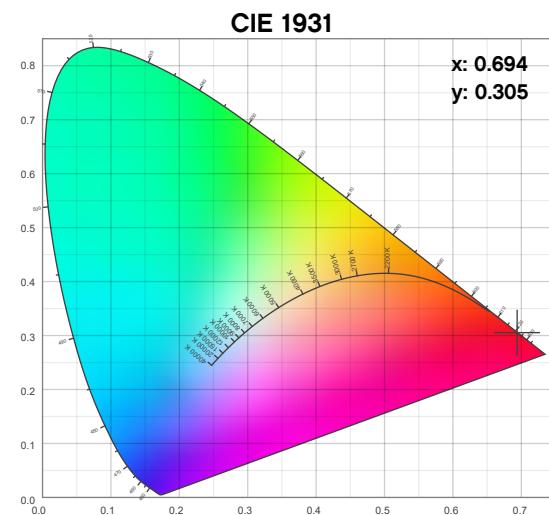
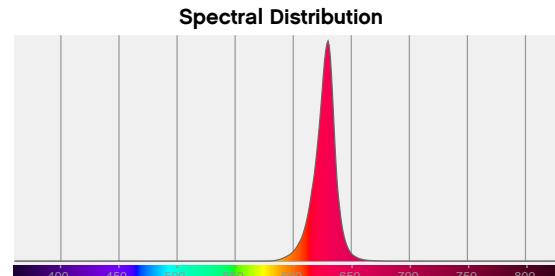
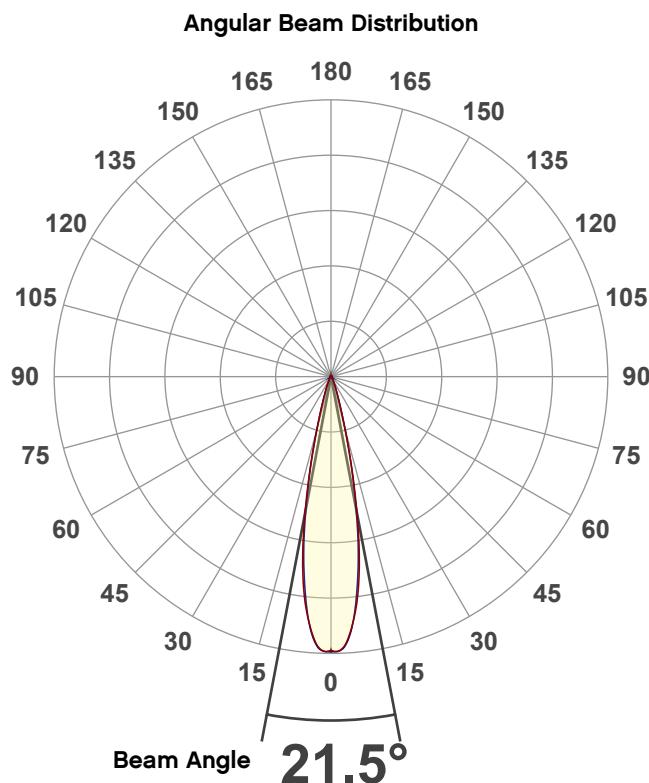


Conditions

AC Supply: 121 V, 60 Hz
Power: 12.49 W
Current: 0.103 A
Power Factor: 0.88

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

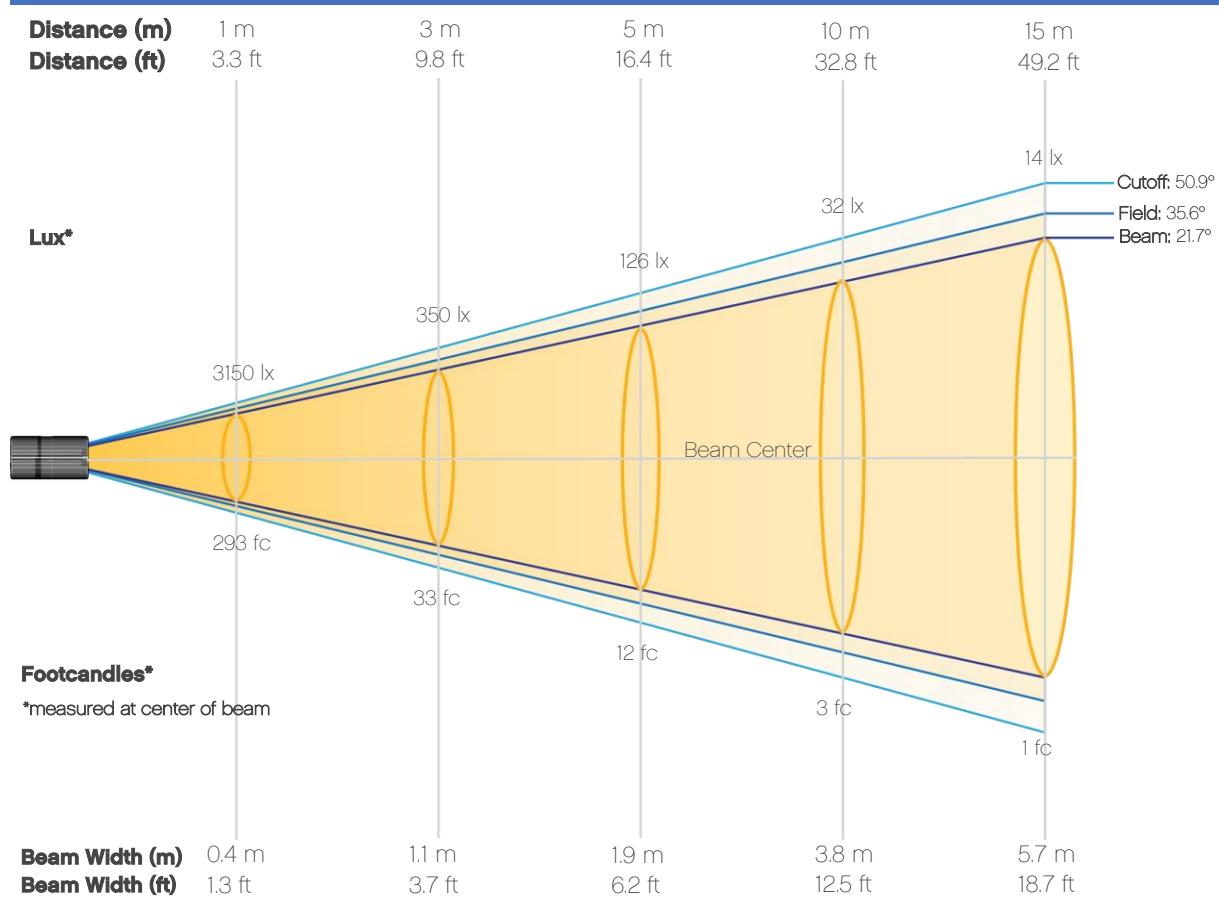
Overall Measurement



Photometric Report

COLORdash Par H7X: Standard Optics - Red Only - -

Beam Details

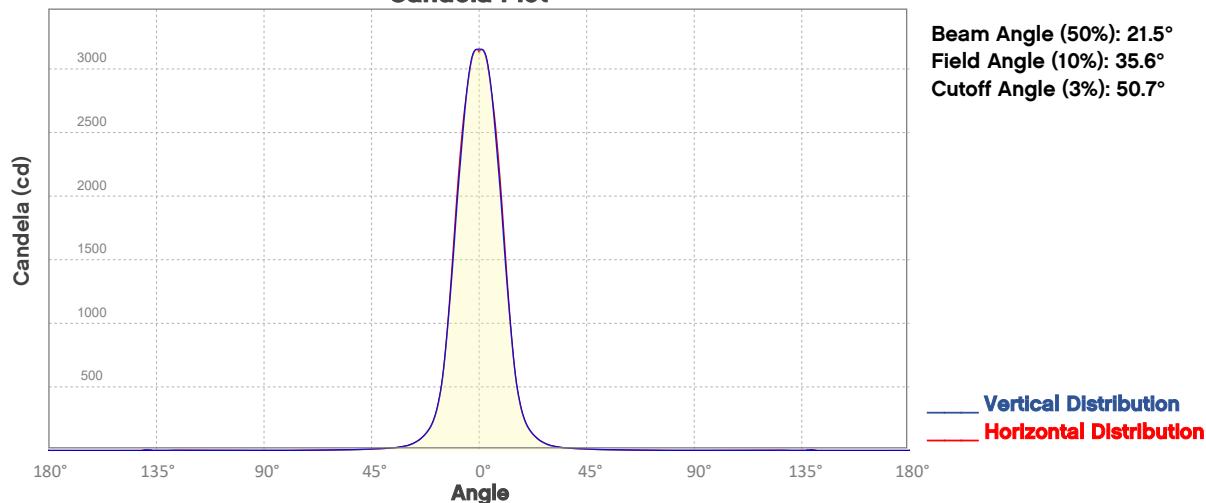


Beam Illuminances from 1-20m (3.3-65.6ft)

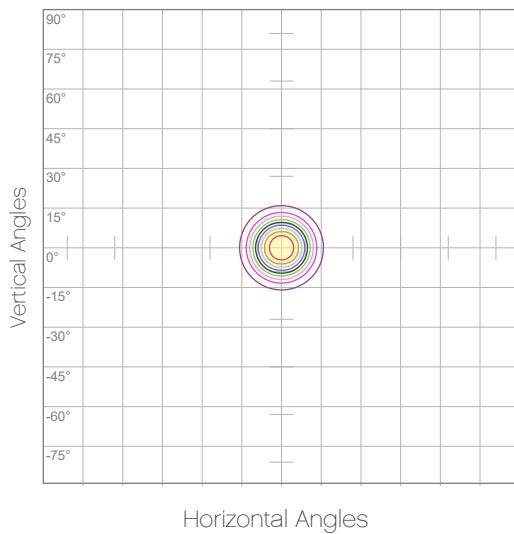
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3150	788	350	197	126	88	64	49	39	32
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	26	22	19	16	14	12	11	10	9	8
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	293	73	33	18	12	8	6	5	4	3
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	2	2	2	1	1	1	1	1	1	1

Photometric Report

COLORdash Par H7X: Standard Optics - Red Only - -
Candela Plot



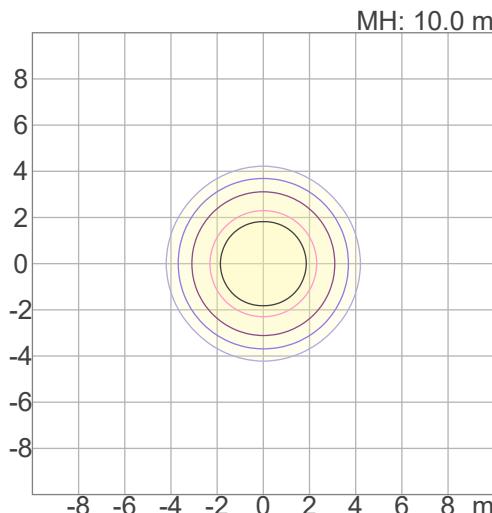
Polar Diagrams



Iso-candela Diagram

10%	315 cd
20%	630 cd
30%	945 cd
40%	1260 cd
50%	1575 cd
60%	1890 cd
70%	2205 cd
80%	2520 cd
90%	2835 cd

Conditions:
Number of c-planes: 8
Candela at center: 3150 cd



Iso-illuminance Diagram

3%	0.945 lx
5%	1.58 lx
10%	3.15 lx
30%	9.45 lx
50%	15.8 lx

Conditions:
Number of c-planes: 8
Lux at center: 31.5 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: Standard Optics - Green Only - -

Report Summary

Output

Total Lumens: 852 lm
Peak Intensity: 3987 cd
Illuminance @ 5m: 159 lux
Fixture Efficacy: 66 lm/W



Optical

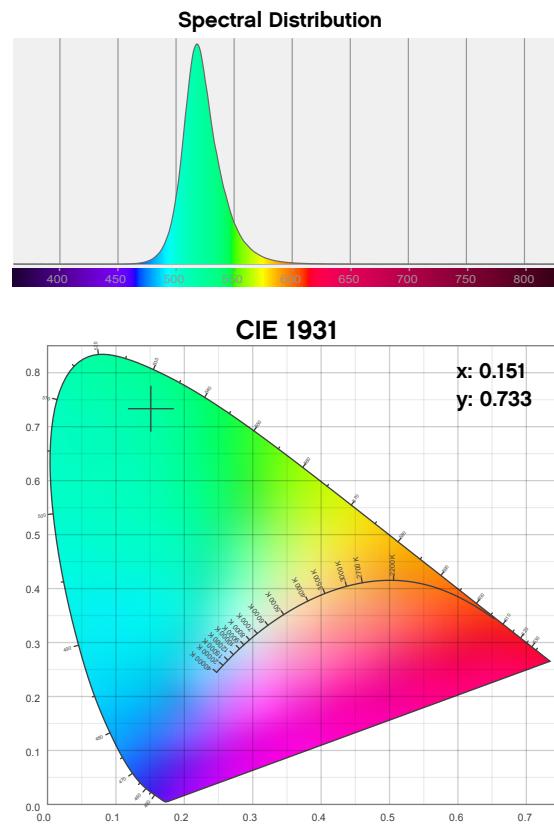
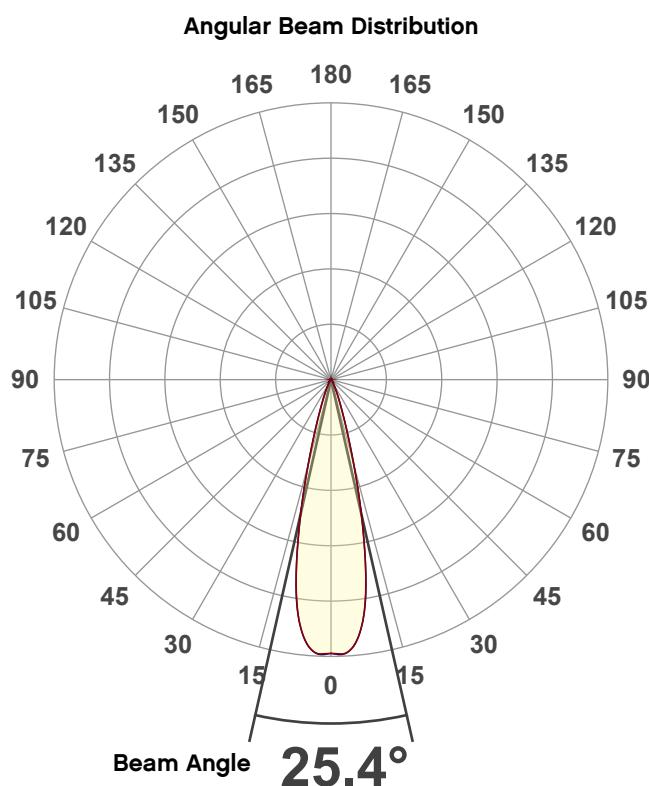
Horizontal Beam Angle (50%): 25.5°
Vertical Beam Angle (50%): 25.5°
Horizontal Field Angle (10%): 40.7°
Vertical Field Angle (10%): 41.1°
Horizontal Cutoff Angle (3%): 55.8°
Vertical Cutoff Angle (3%): 56.1°

Conditions

AC Supply: 121 V, 60 Hz
Power: 13.91 W
Current: 0.115 A
Power Factor: 0.92

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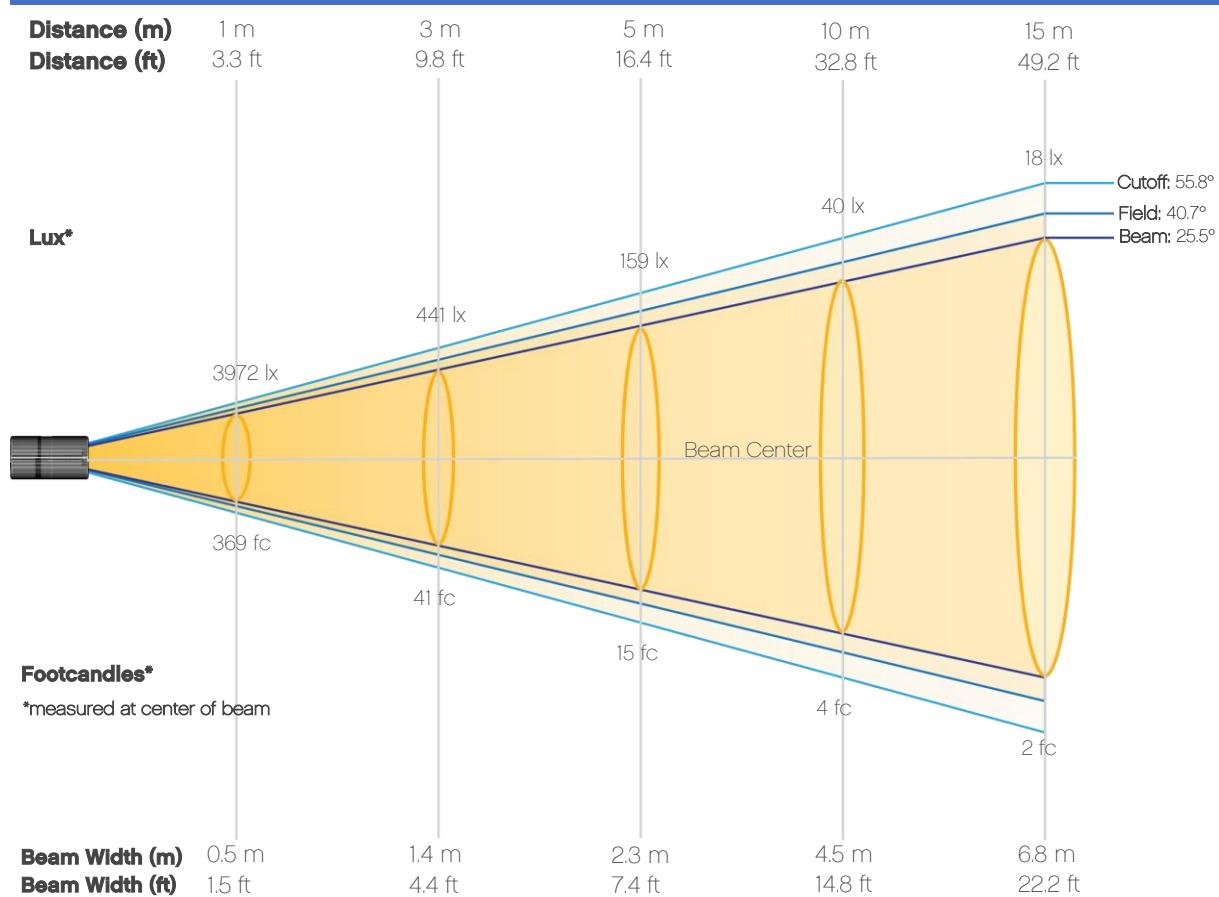
Overall Measurement



Photometric Report

COLORdash Par H7X: Standard Optics - Green Only - -

Beam Details



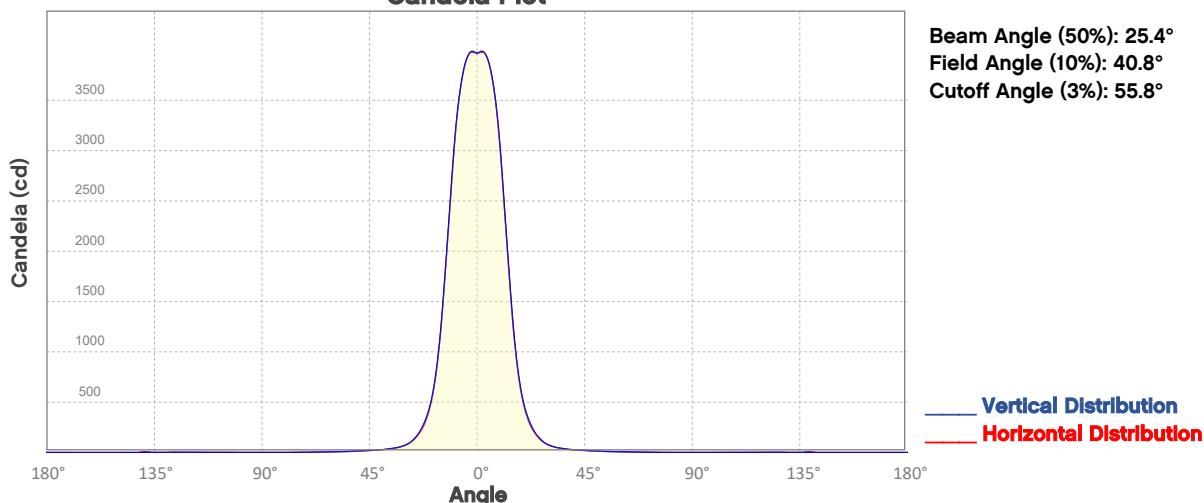
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3972	993	441	248	159	110	81	62	49	40
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	33	28	24	20	18	16	14	12	11	10
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	369	92	41	23	15	10	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	1	1	1	1	1

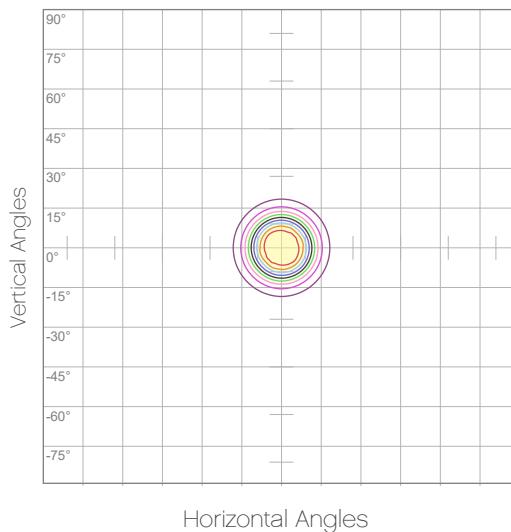
Photometric Report

COLORdash Par H7X: Standard Optics - Green Only - -

Candela Plot



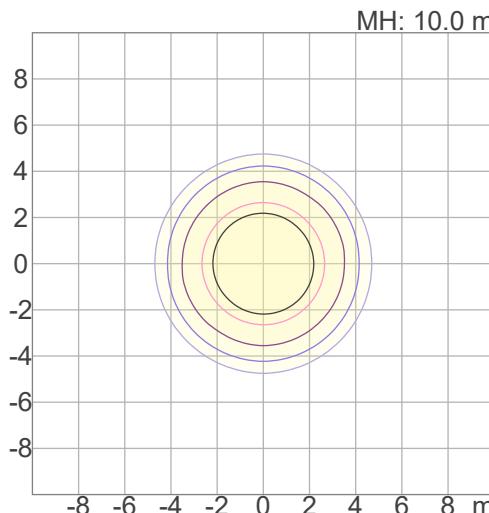
Polar Diagrams



Iso-candela Diagram

10%	397 cd
20%	794 cd
30%	1192 cd
40%	1589 cd
50%	1986 cd
60%	2383 cd
70%	2781 cd
80%	3178 cd
90%	3575 cd

Conditions:
Number of c-planes: 8
Candela at center: 3972 cd



Iso-illuminance Diagram

3%	1.19 lx
5%	1.99 lx
10%	3.97 lx
30%	11.9 lx
50%	19.9 lx

Conditions:
Number of c-planes: 8
Lux at center: 39.7 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: Standard Optics - Blue Only -

Report Summary

Output

Total Lumens: 187 lm
Peak Intensity: 702 cd
Illuminance @ 5m: 27 lux
Fixture Efficacy: 13 lm/W

Optical

Horizontal Beam Angle (50%): 28.2°
Vertical Beam Angle (50%): 28.2°
Horizontal Field Angle (10%): 44.1°
Vertical Field Angle (10%): 43.9°
Horizontal Cutoff Angle (3%): 60.4°
Vertical Cutoff Angle (3%): 60.1°

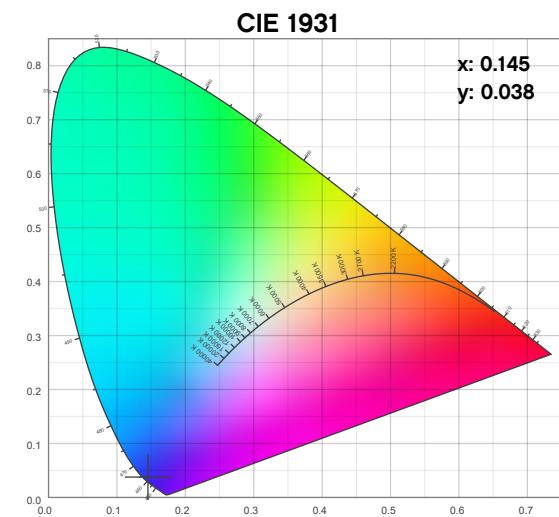
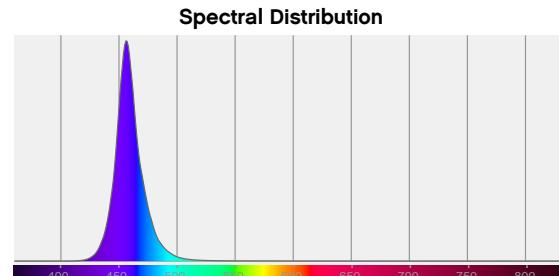
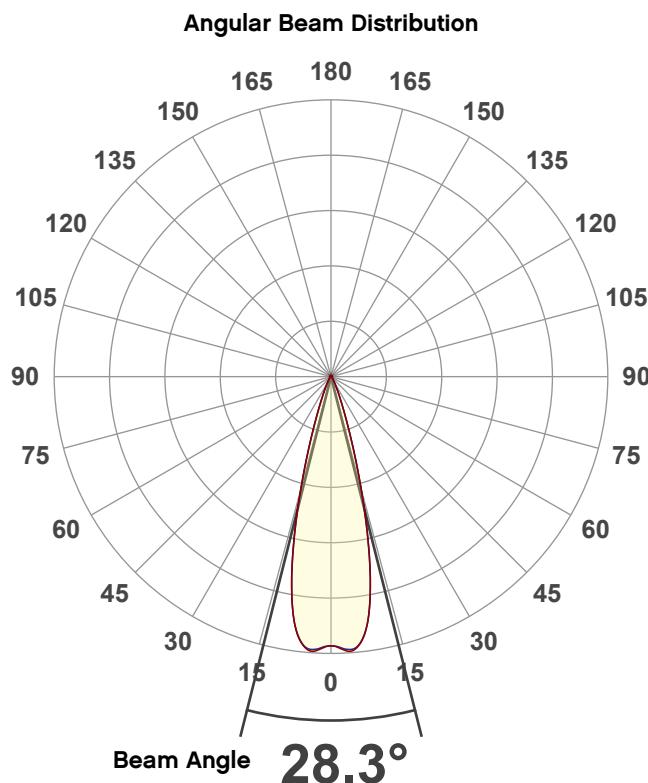


Conditions

AC Supply: 120 V, 60 Hz
Power: 15.44 W
Current: 0.128 A
Power Factor: 0.93

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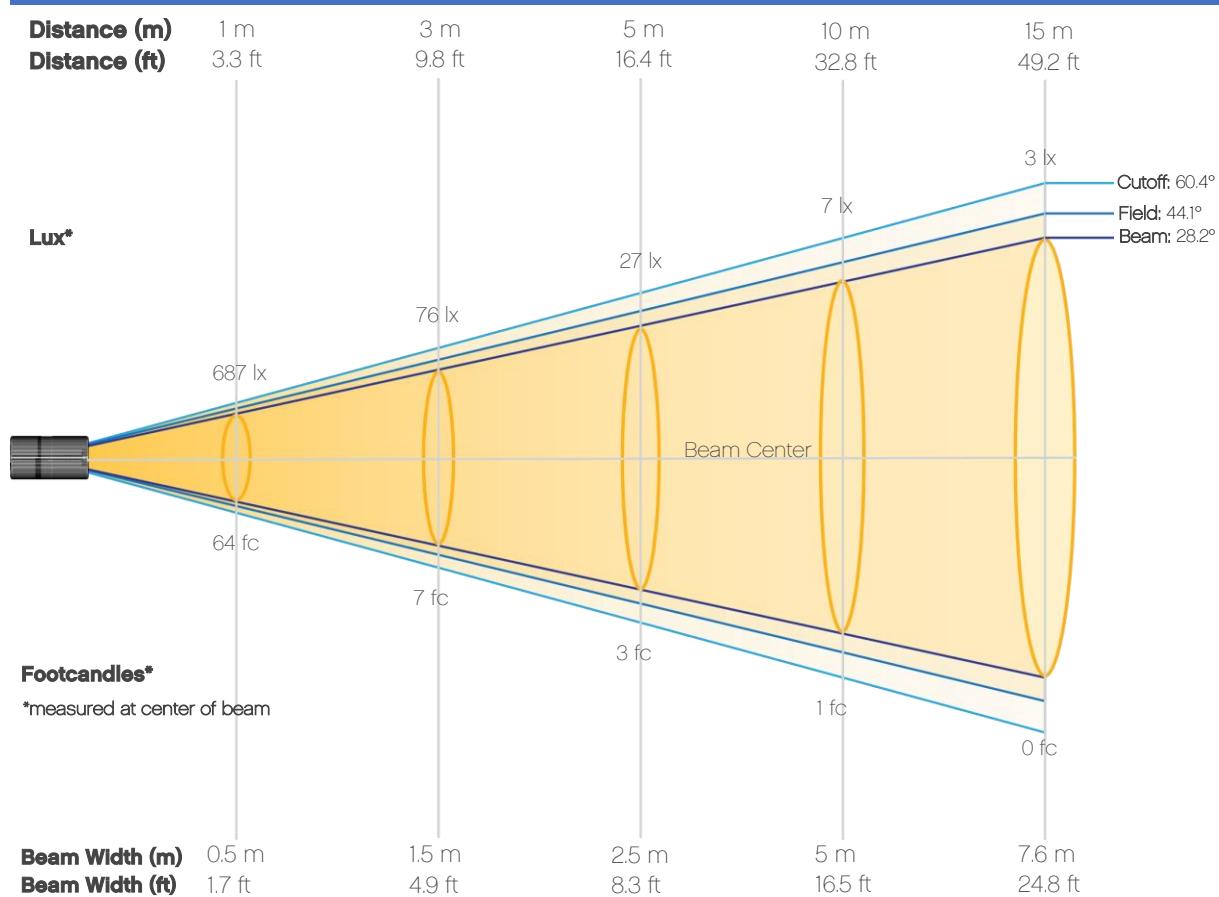
Overall Measurement



Photometric Report

COLORdash Par H7X: Standard Optics - Blue Only - -

Beam Details

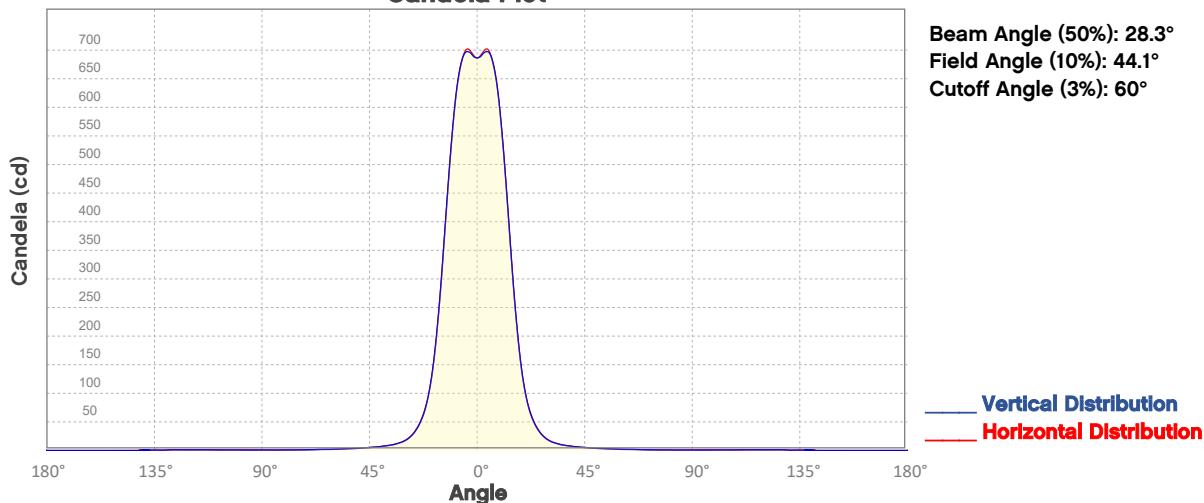


Beam Illuminances from 1-20m (3.3-65.6ft)

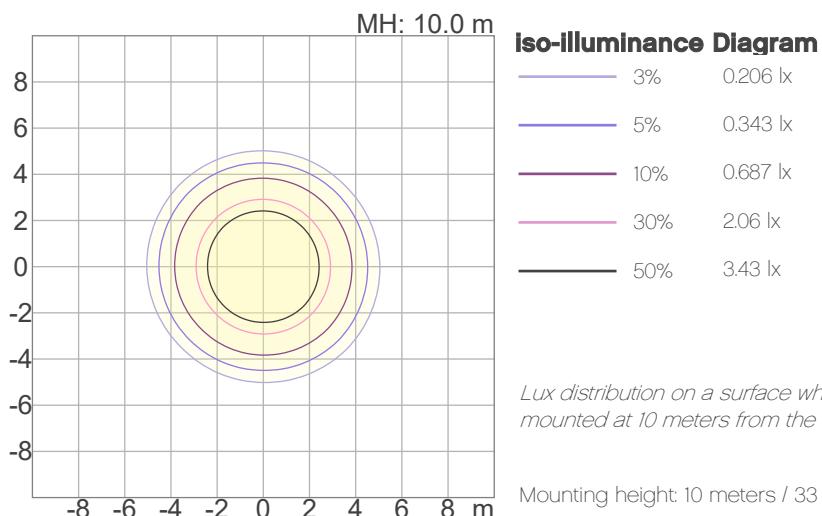
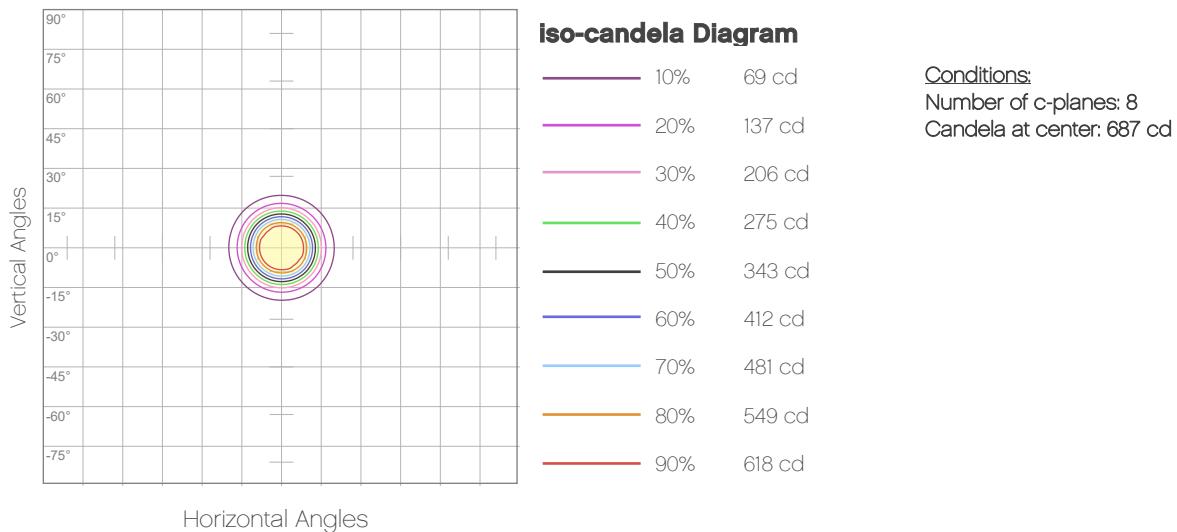
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	687	172	76	43	27	19	14	11	8	7
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
LUX	6	5	4	4	3	3	2	2	2	2
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	64	16	7	4	3	2	1	1	1	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	0	0	0	0	0	0	0	0	0

Photometric Report

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



Polar Diagrams



Photometric Report

COLORdash Par H7X: Standard Optics - Amber Only - -

Report Summary

Output

Total Lumens: 404 lm
Peak Intensity: 1589 cd
Illuminance @ 5m: 62 lux
Fixture Efficacy: 33 lm/W

Optical

Horizontal Beam Angle (50%): 28.6°
Vertical Beam Angle (50%): 28.7°
Horizontal Field Angle (10%): 43.4°
Vertical Field Angle (10%): 43.1°
Horizontal Cutoff Angle (3%): 58.9°
Vertical Cutoff Angle (3%): 58.5°

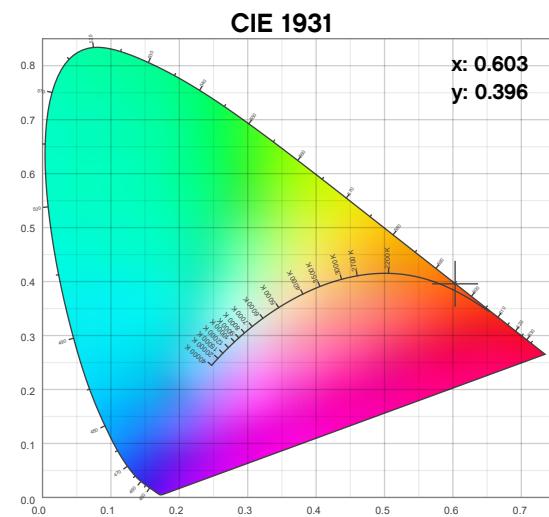
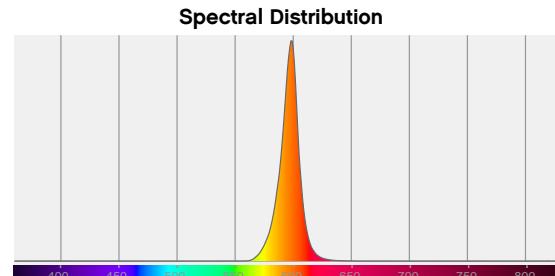
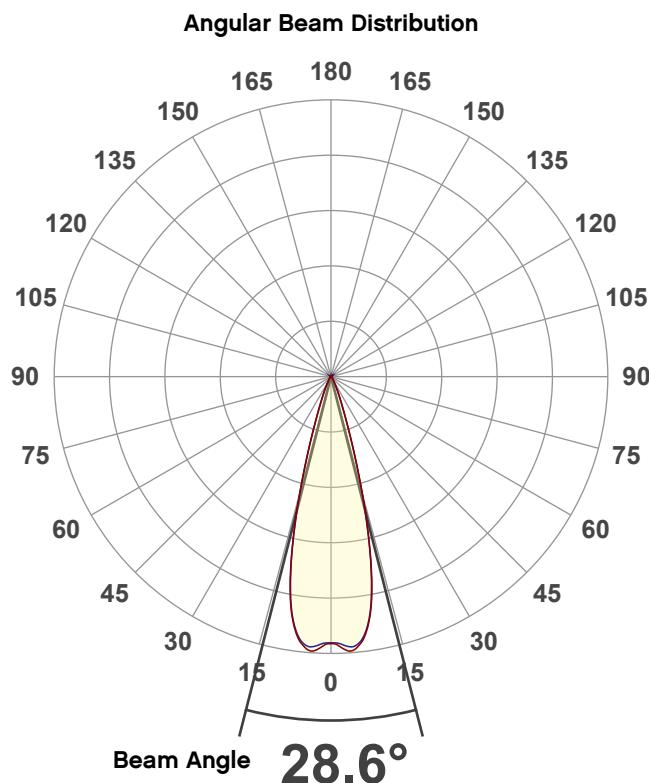


Conditions

AC Supply: 121 V, 60 Hz
Power: 13.31 W
Current: 0.110 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 10/10/2022 to LM-63-2002 Standards.

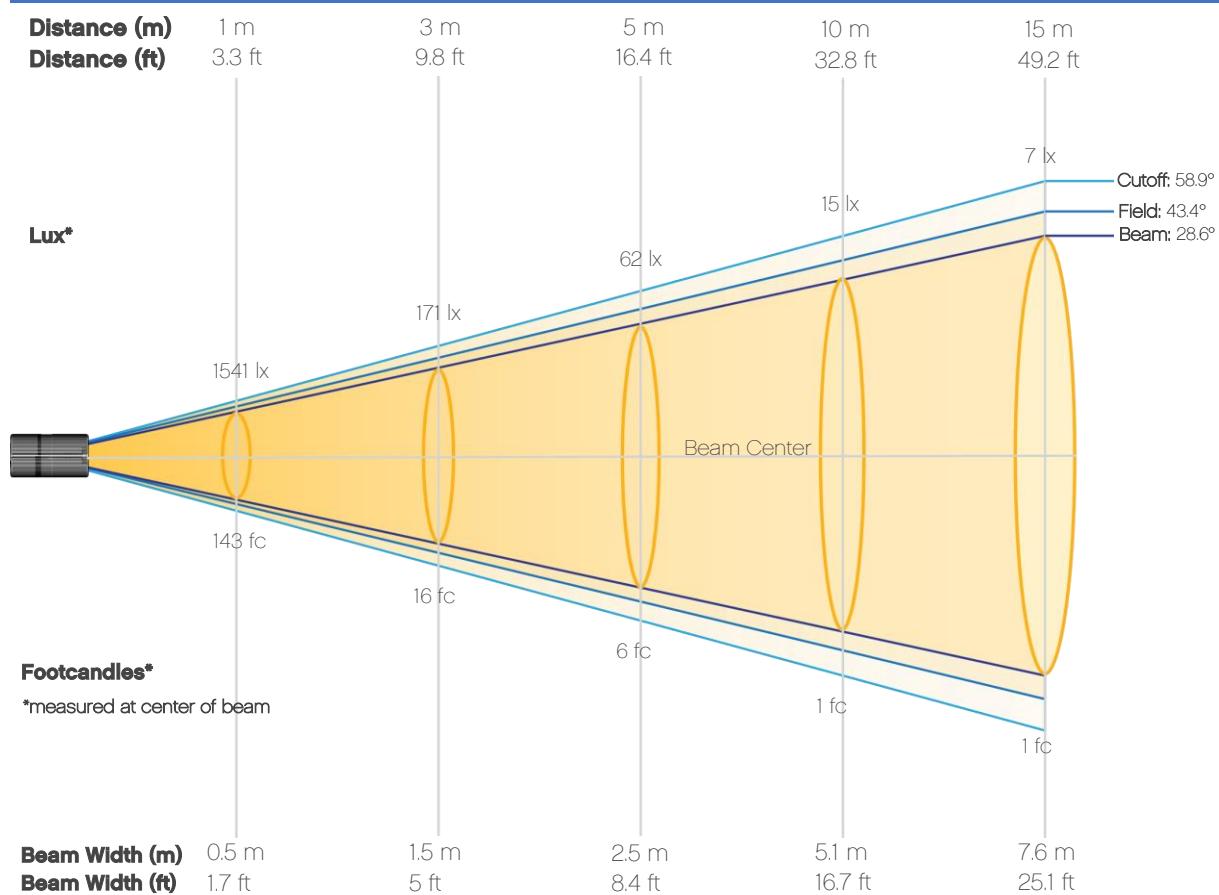
Overall Measurement



Photometric Report

COLORdash Par H7X: Standard Optics - Amber Only - -

Beam Details



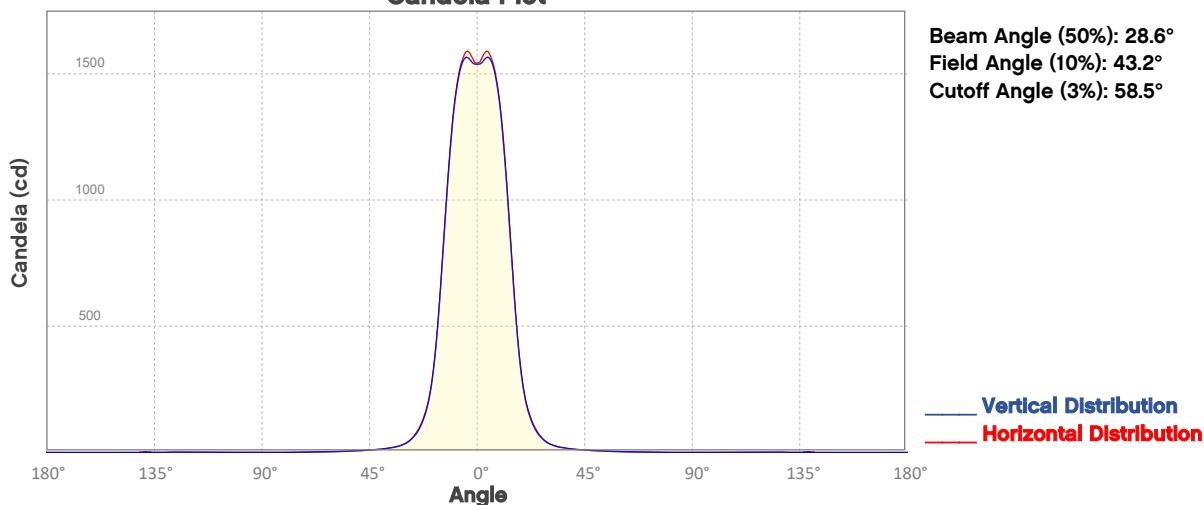
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1541	385	171	96	62	43	31	24	19	15
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	13	11	9	8	7	6	5	5	4	4
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	143	36	16	9	6	4	3	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	1	0	0	0	0

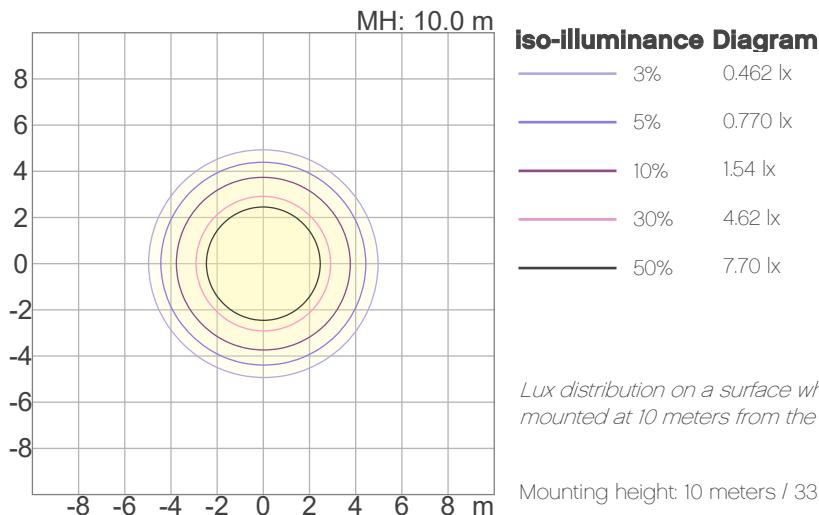
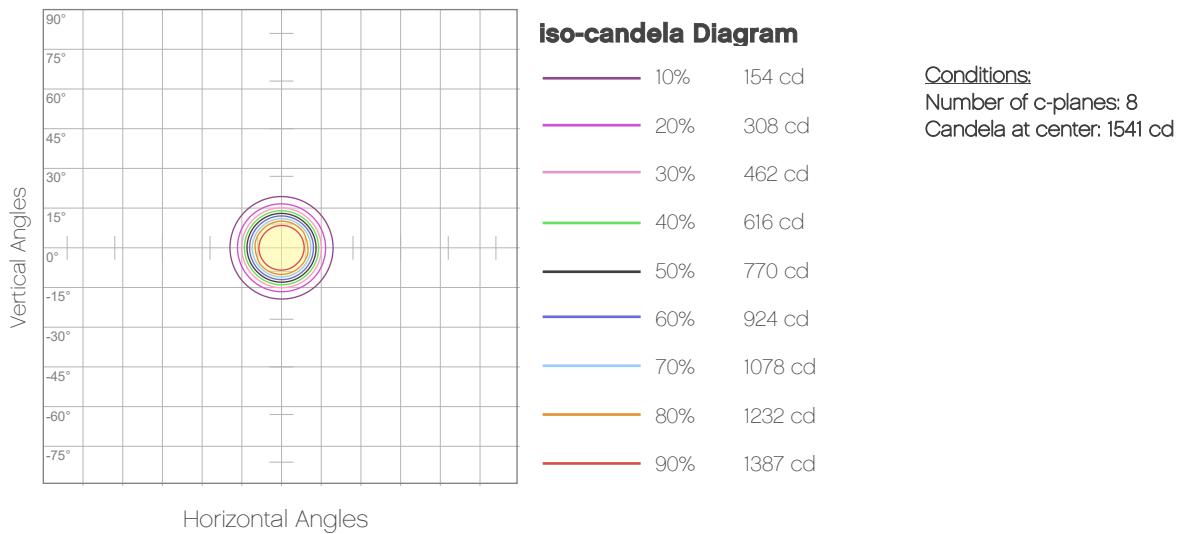
Photometric Report

COLORdash Par H7X: Standard Optics - Amber Only - -

Candela Plot



Polar Diagrams



Photometric Report

COLORdash Par H7X: Standard Optics - White Only - -

Report Summary

Output

Total Lumens: 1000 lm
Peak Intensity: 6048 cd
Illuminance @ 5m: 240 lux
Fixture Efficacy: 72 lm/W

Optical

Horizontal Beam Angle (50%): 22.1°
Vertical Beam Angle (50%): 22°
Horizontal Field Angle (10%): 36°
Vertical Field Angle (10%): 36°
Horizontal Cutoff Angle (3%): 51.4°
Vertical Cutoff Angle (3%): 51.2°

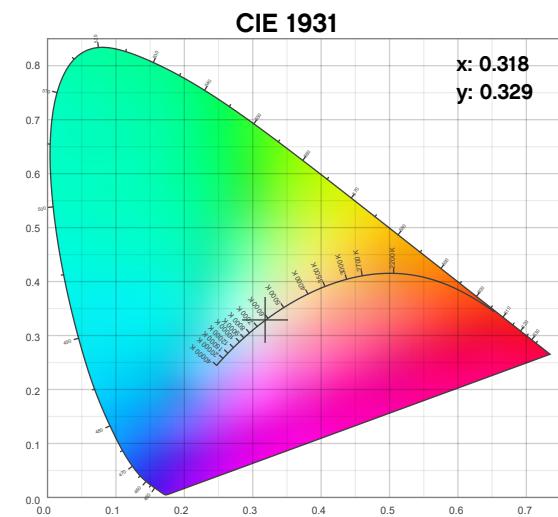
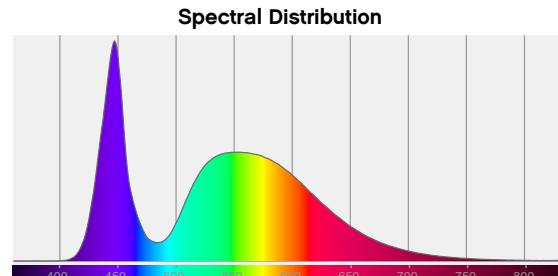
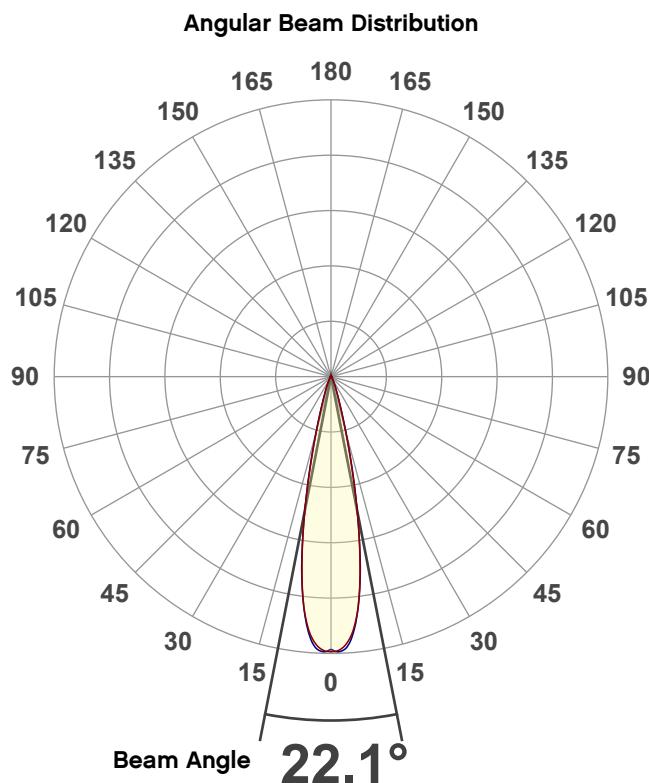


Conditions

AC Supply: 120 V, 60 Hz
Power: 15.13 W
Current: 0.126 A
Power Factor: 0.92

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

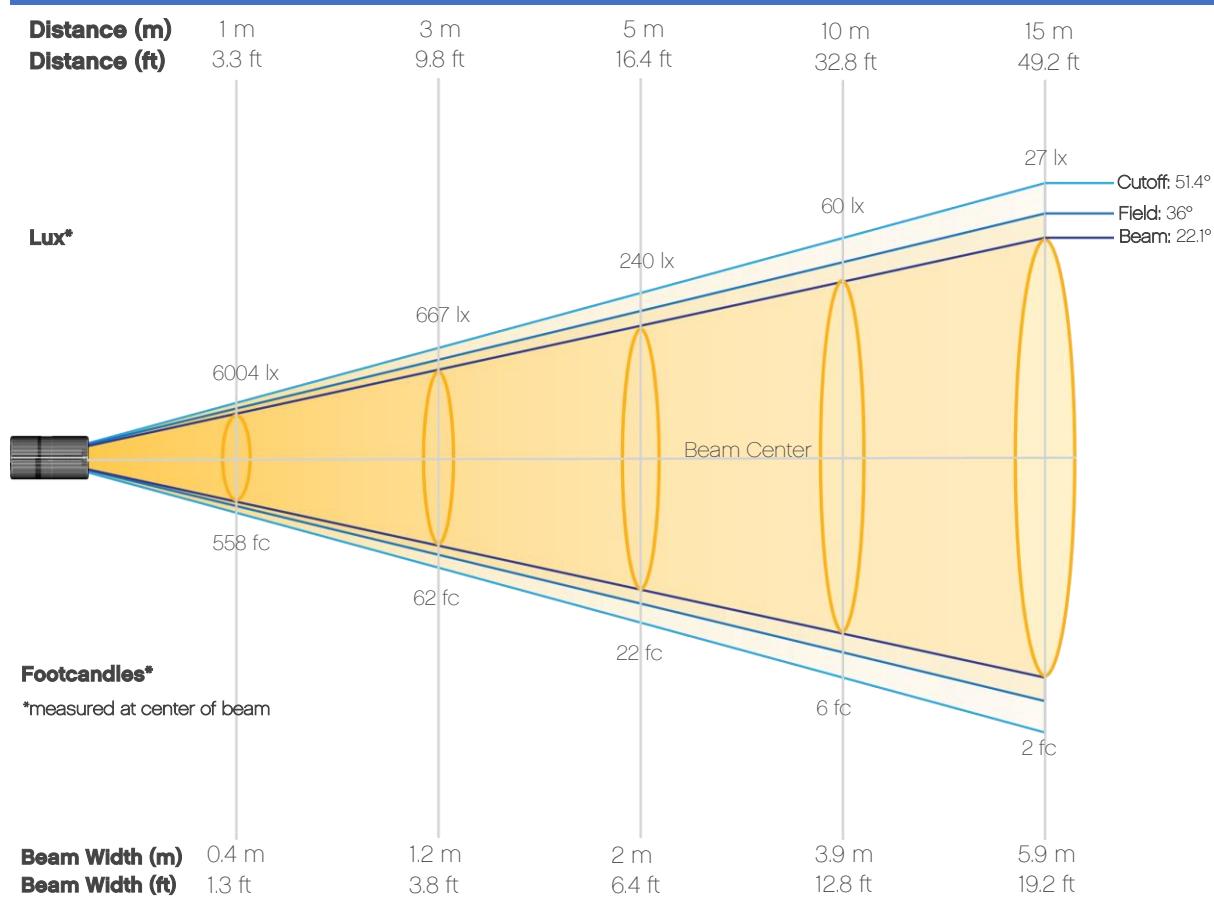
Overall Measurement



Photometric Report

COLORdash Par H7X: Standard Optics - White Only - -

Beam Details



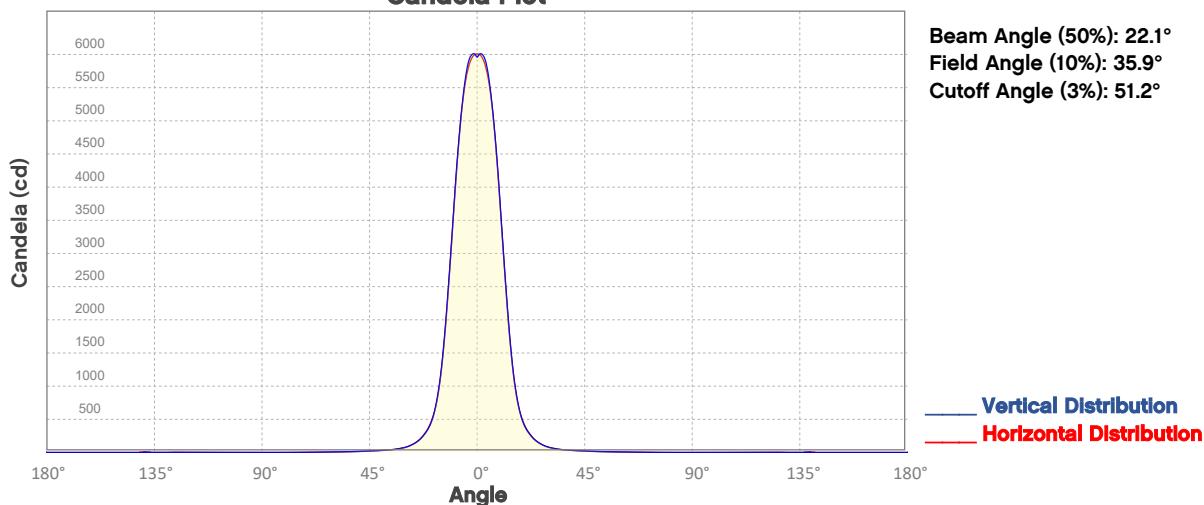
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	6004	1501	667	375	240	167	123	94	74	60
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	50	42	36	31	27	23	21	19	17	15
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	558	139	62	35	22	15	11	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	2	2	2	2	2	1

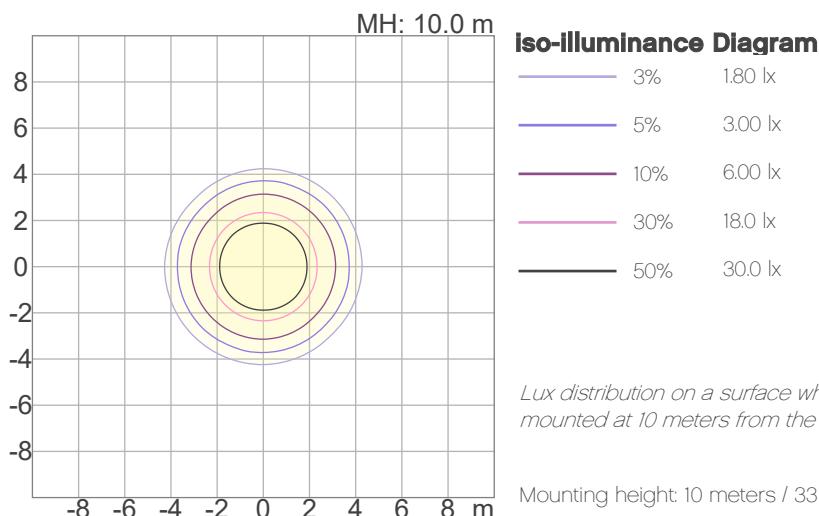
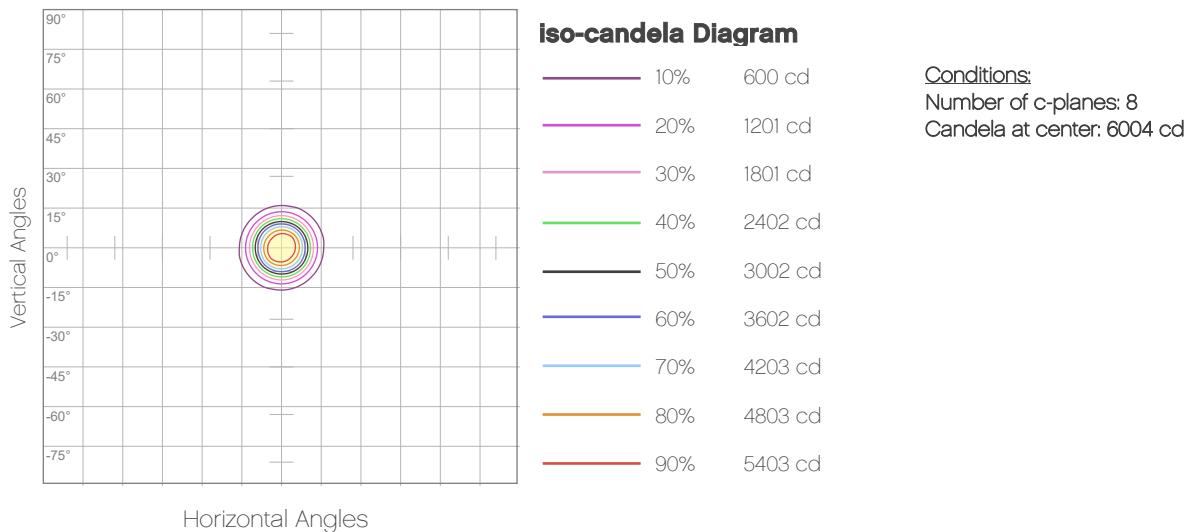
Photometric Report

COLORdash Par H7X: Standard Optics - White Only - -

Candela Plot



Polar Diagrams



Photometric Report

COLORdash Par H7X: Standard Optics - UV Only - -

Report Summary

Output

Total Lumens: 21.5 lm

Peak Intensity: 57.5 cd

Illuminance @ 5m: 2 lux

Fixture Efficacy: 1 lm/W

Optical

Horizontal Beam Angle (50%): 23.8°

Vertical Beam Angle (50%): 24.2°

Horizontal Field Angle (10%): 40.8°

Vertical Field Angle (10%): 41.3°

Horizontal Cutoff Angle (3%): 98.3°

Vertical Cutoff Angle (3%): 81.7°



Conditions

AC Supply: 121 V, 60 Hz

Power: 17.32 W

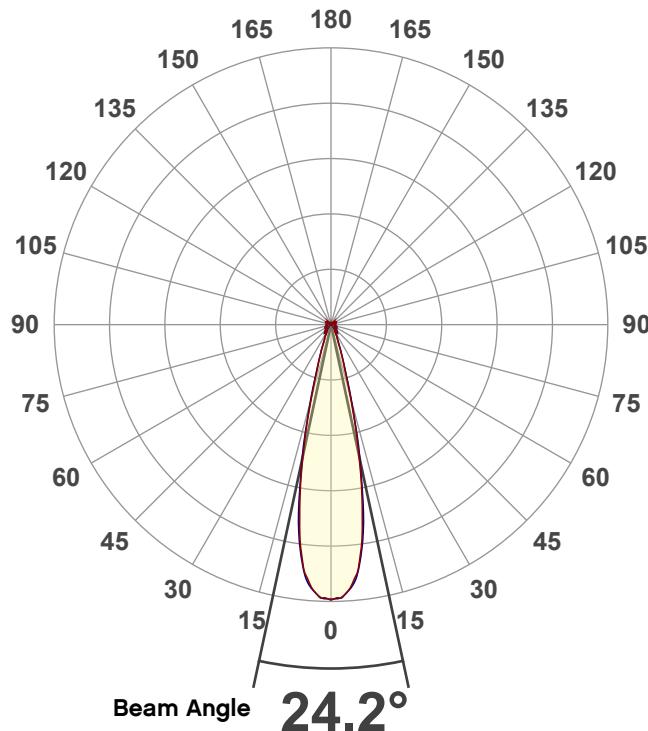
Current: 0.144 A

Power Factor: 0.94

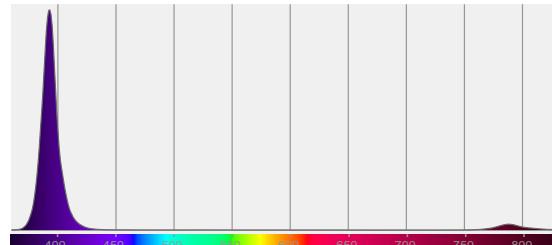
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/10/2022 to LM-63-2002 Standards.

Overall Measurement

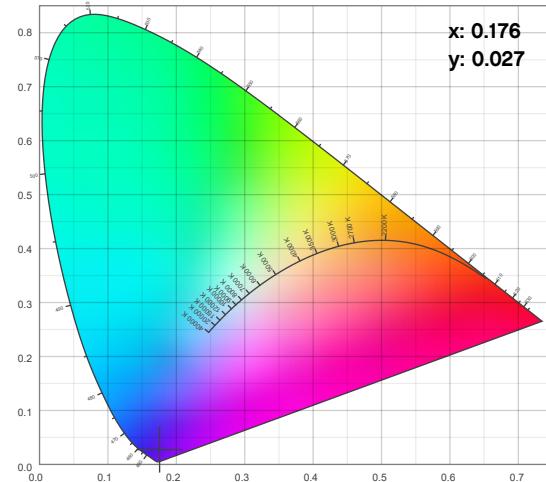
Angular Beam Distribution



Spectral Distribution



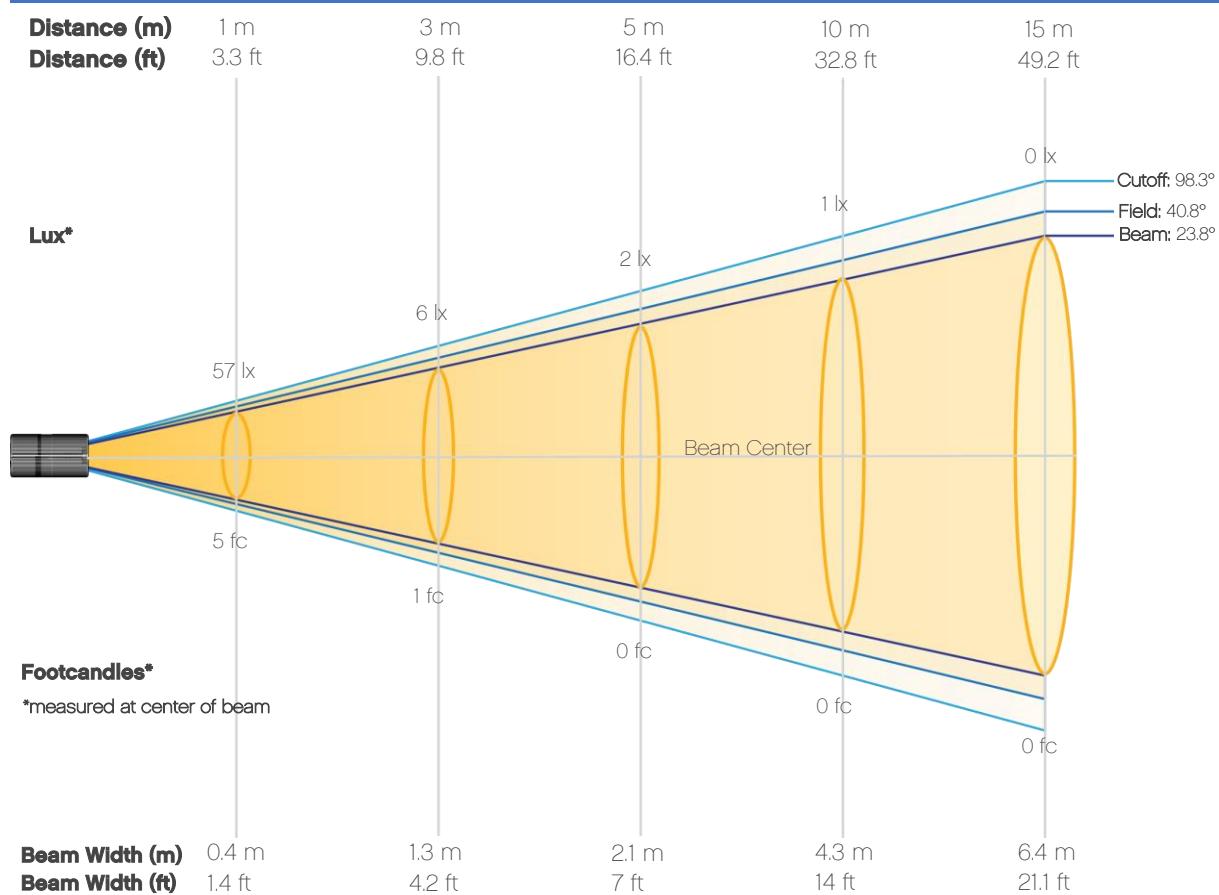
CIE 1931



Photometric Report

COLORdash Par H7X: Standard Optics - UV Only - -

Beam Details

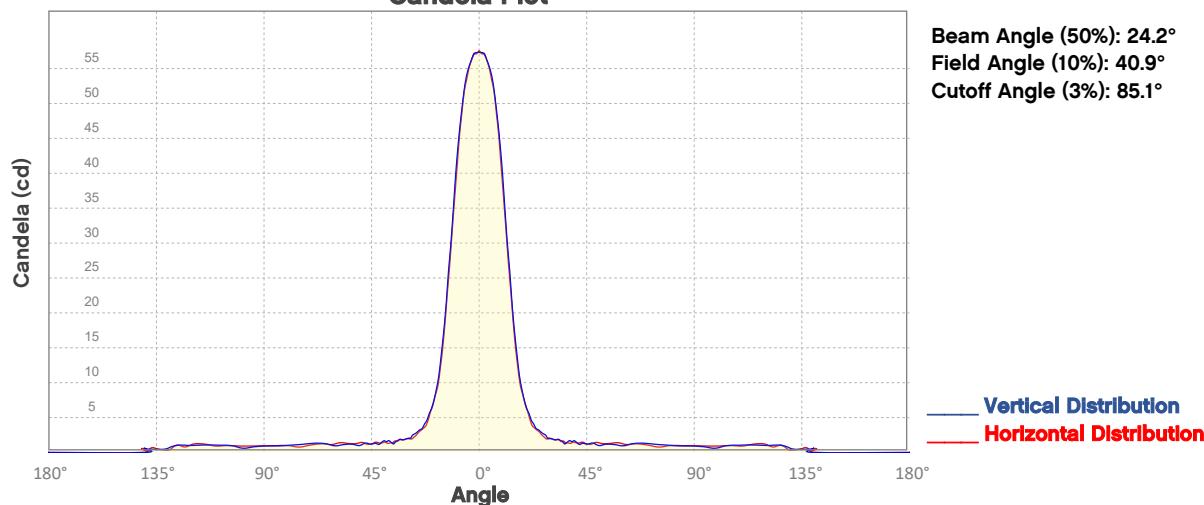


Beam Illuminances from 1-20m (3.3-65.6ft)

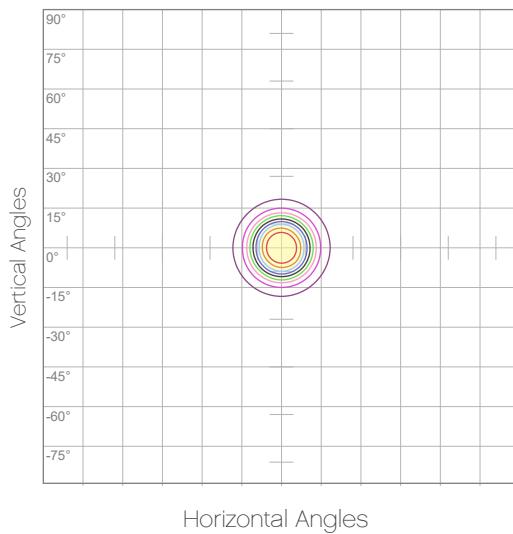
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	57	14	6	4	2	2	1	1	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	0	0	0	0	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	5	1	1	0	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft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

Photometric Report

COLORdash Par H7X: Standard Optics - UV Only - -
Candela Plot



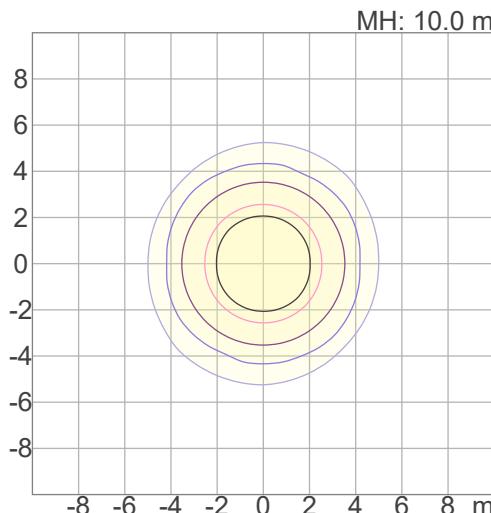
Polar Diagrams



Iso-candela Diagram

10%	6 cd
20%	11 cd
30%	17 cd
40%	23 cd
50%	29 cd
60%	34 cd
70%	40 cd
80%	46 cd
90%	52 cd

Conditions:
Number of c-planes: 8
Candela at center: 57 cd



Iso-illuminance Diagram

3%	17.2m lx
5%	28.7m lx
10%	57.4m lx
30%	0.172 lx
50%	0.287 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.574 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.