

PHOTOMETRICS REPORT

# COLORdash Par-H12XIP



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-H12XIP**

# **Photometrics Reports**

# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Full Power

## Report Summary

### Output

Total Lumens: 4537 lm  
Peak Intensity: 28214 cd  
Illuminance @ 5m: 1128 lux  
Fixture Efficacy: 36 lm/W

### Optical

Horizontal Beam Angle (50%): 21.6°  
Vertical Beam Angle (50%): 21.3°  
Horizontal Field Angle (10%): 35.3°  
Vertical Field Angle (10%): 35.6°  
Horizontal Cutoff Angle (3%): 48.1°  
Vertical Cutoff Angle (3%): 48.7°

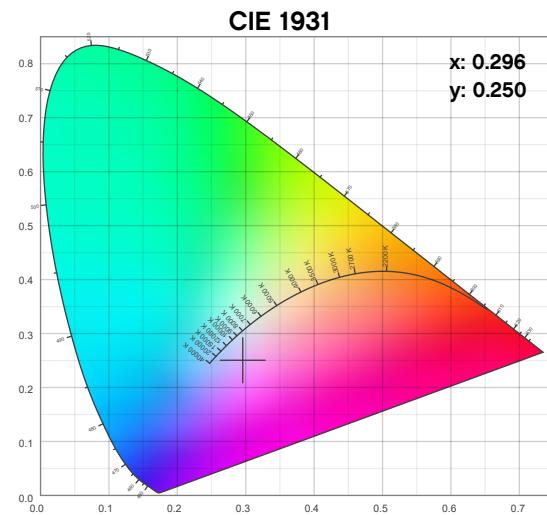
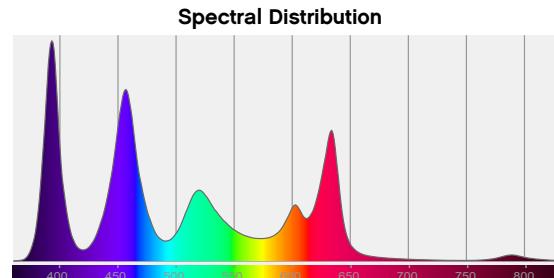
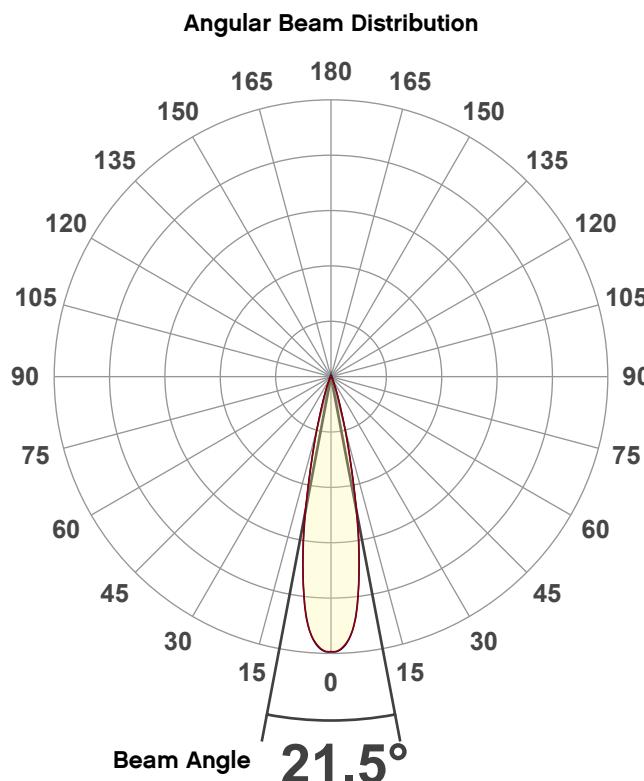


### Conditions

AC Supply: 118 V, 60.1 Hz  
Power: 126.98 W  
Current: 1.08 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 10/26/2022 to LM-63-2002 Standards.

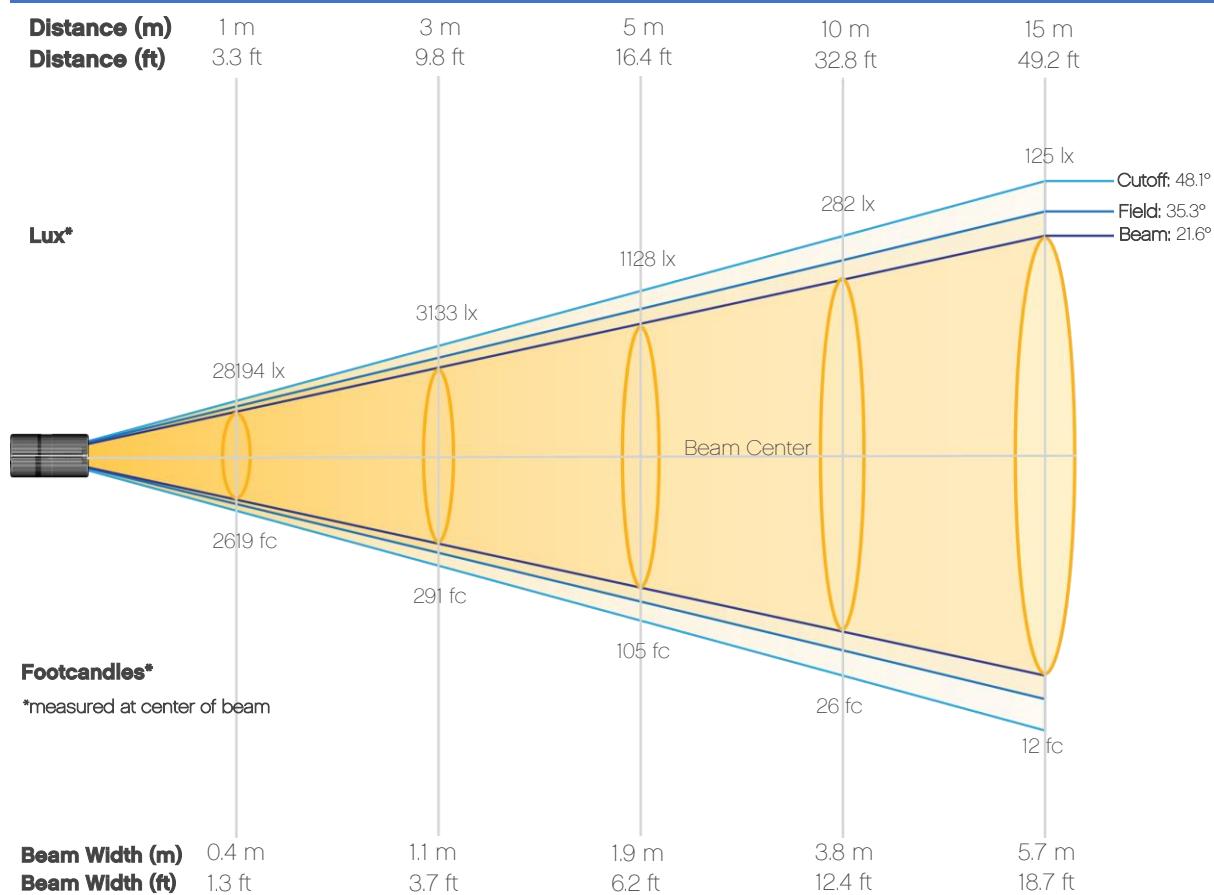
## Overall Measurement



# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Full Power

## Beam Details

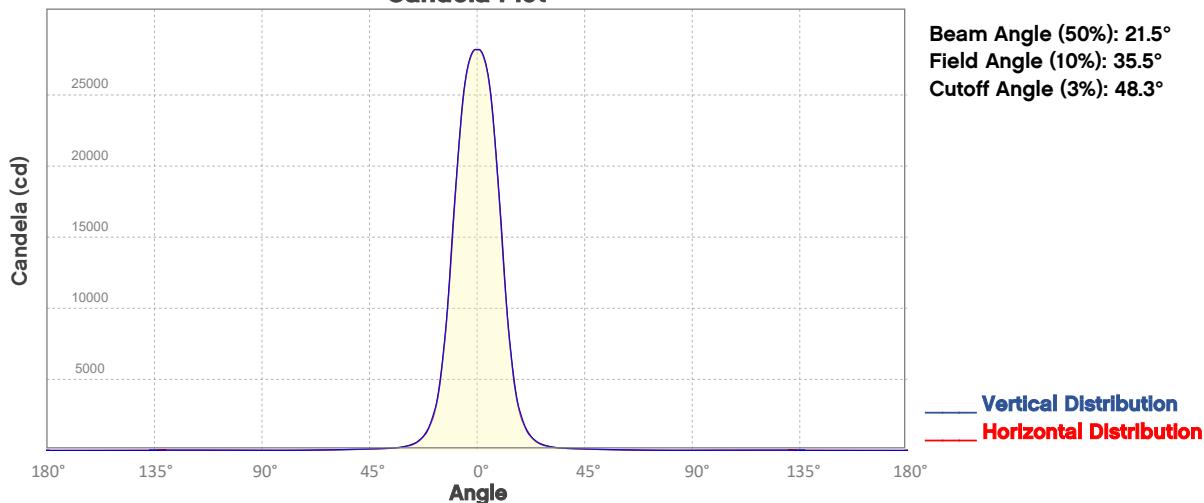


## Beam Illuminances from 1-20m (3.3-65.6ft)

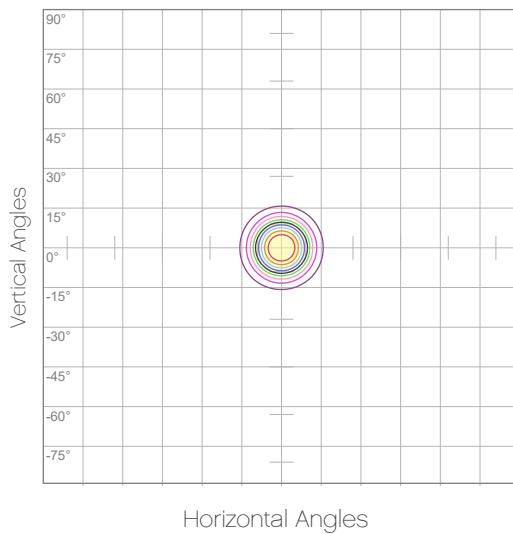
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	28194	7049	3133	1762	1128	783	575	441	348	282
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	233	196	167	144	125	110	98	87	78	70
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	2619	655	291	164	105	73	53	41	32	26
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	22	18	15	13	12	10	9	8	7	7

# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Full Power  
Candela Plot



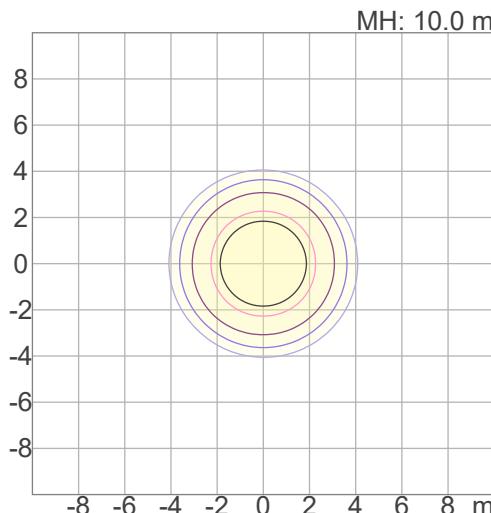
## Polar Diagrams



**Iso-candela Diagram**

10%	2819 cd
20%	5639 cd
30%	8458 cd
40%	11278 cd
50%	14097 cd
60%	16917 cd
70%	19736 cd
80%	22555 cd
90%	25375 cd

**Conditions:**  
Number of c-planes: 8  
Candela at center: 28194 cd



**Iso-illuminance Diagram**

3%	8.46 lx
5%	14.1 lx
10%	28.2 lx
30%	84.6 lx
50%	141 lx

**Conditions:**  
Number of c-planes: 8  
Lux at center: 282 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-H12XIP: Standard Optics - Red Only

## Report Summary

### Output

Total Lumens: 848 lm  
Peak Intensity: 5580 cd  
Illuminance @ 5m: 223 lux  
Fixture Efficacy: 42 lm/W

### Optical

Horizontal Beam Angle (50%): 20.8°  
Vertical Beam Angle (50%): 20.9°  
Horizontal Field Angle (10%): 33.9°  
Vertical Field Angle (10%): 34.2°  
Horizontal Cutoff Angle (3%): 46.1°  
Vertical Cutoff Angle (3%): 46.8°

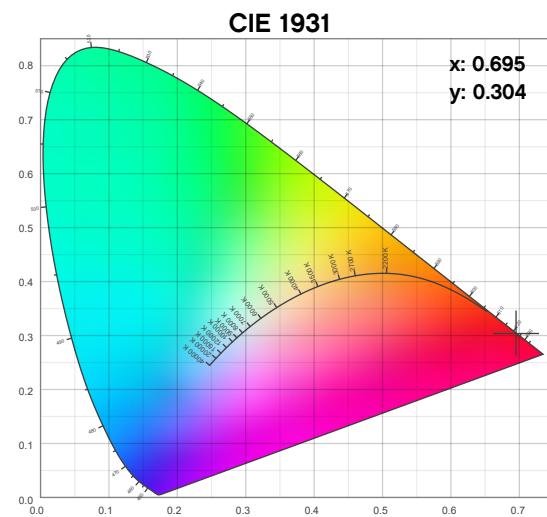
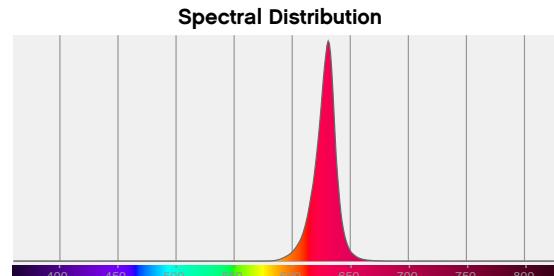
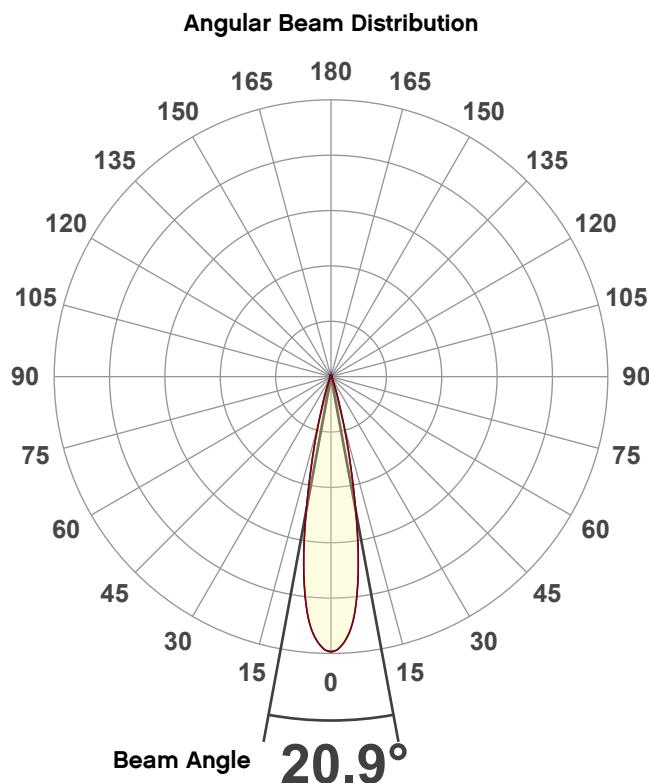


### Conditions

AC Supply: 119 V, 60 Hz  
Power: 21.23 W  
Current: 0.179 A  
Power Factor: 0.95

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 10/26/2022 to LM-63-2002 Standards.

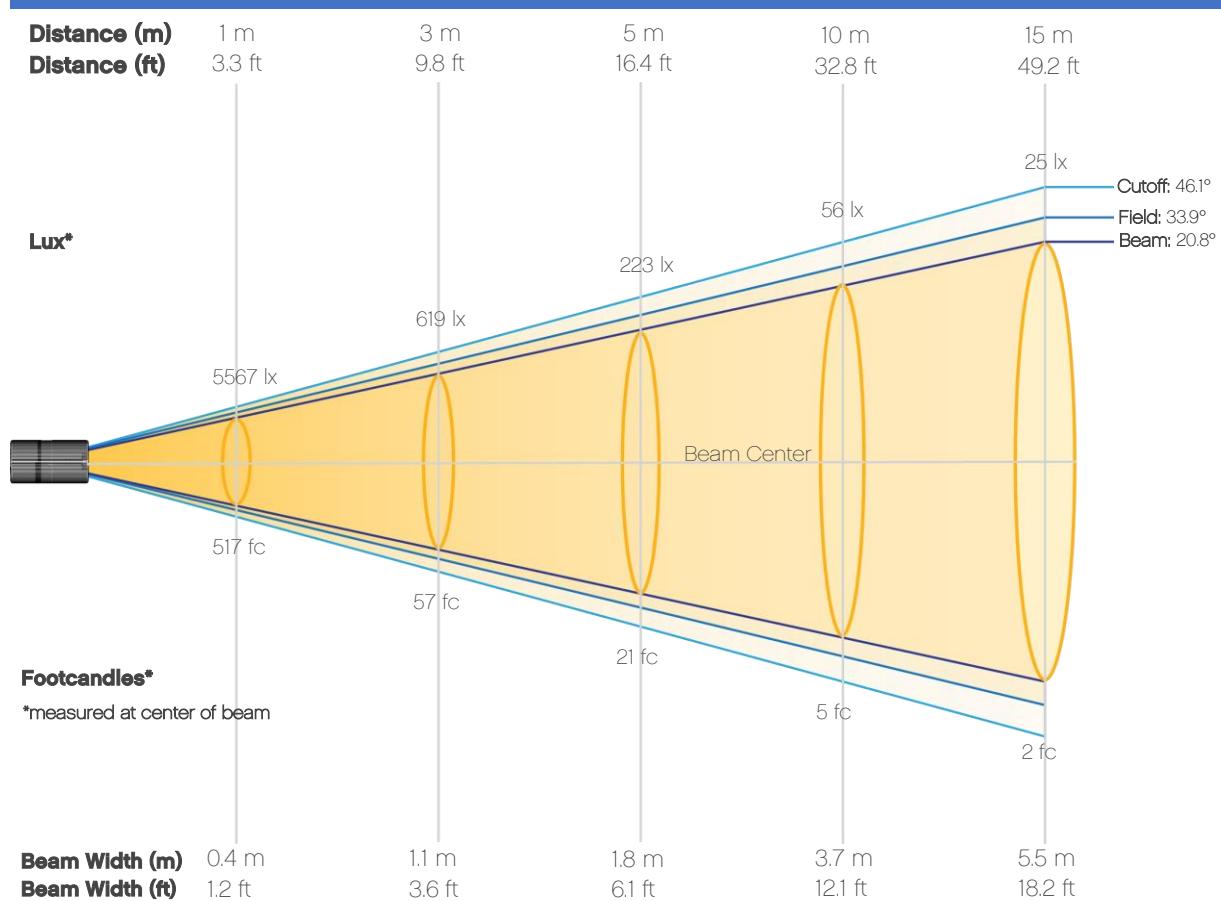
## Overall Measurement



# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Red Only

## Beam Details

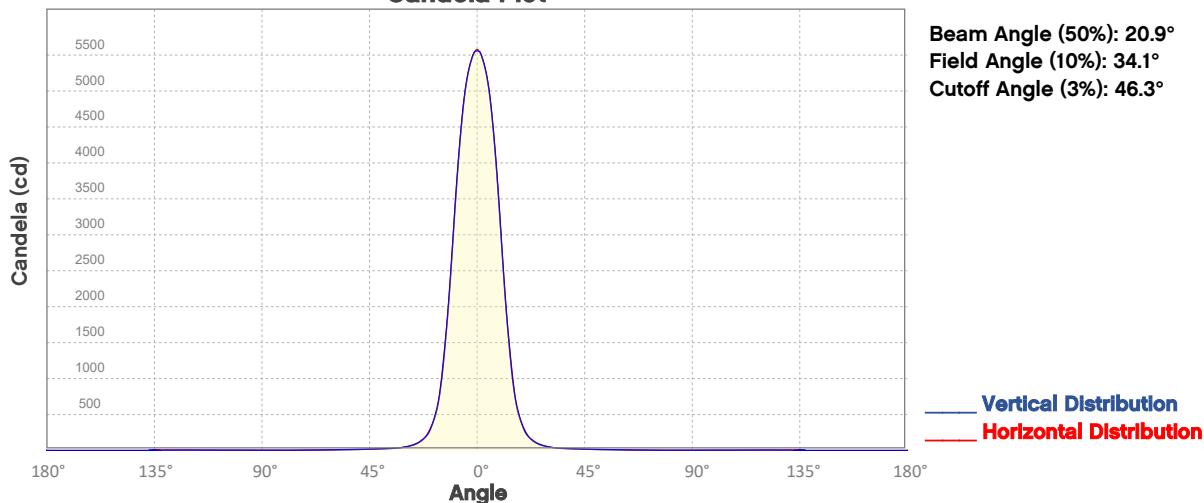


## Beam Illuminances from 1-20m (3.3-65.6ft)

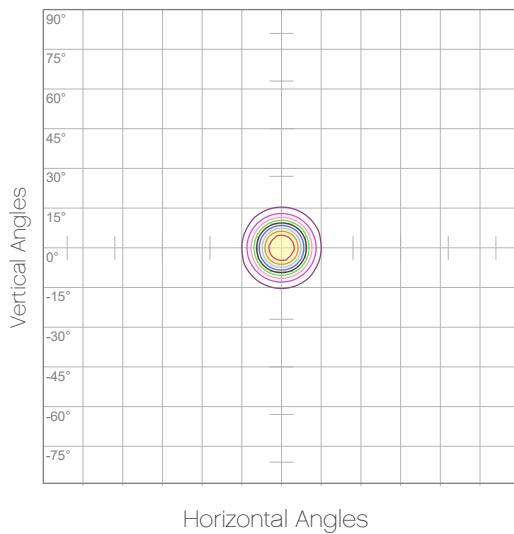
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	5567	1392	619	348	223	155	114	87	69	56
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
LUX	46	39	33	28	25	22	19	17	15	14
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	517	129	57	32	21	14	11	8	6	5
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	4	4	3	3	2	2	2	2	1	1

# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Red Only  
Candela Plot



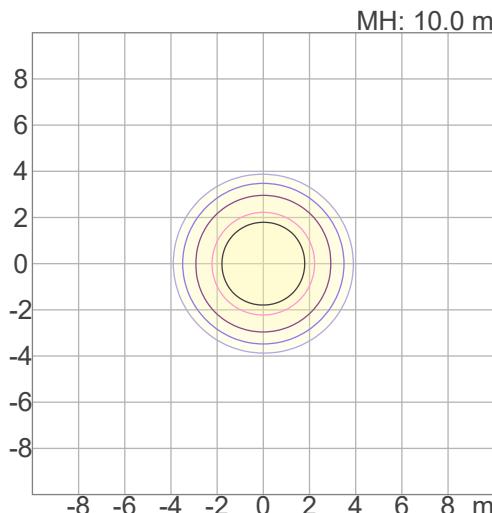
## Polar Diagrams



Iso-candela Diagram

10%	557 cd
20%	1113 cd
30%	1670 cd
40%	2227 cd
50%	2783 cd
60%	3340 cd
70%	3897 cd
80%	4453 cd
90%	5010 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 5567 cd



Iso-illuminance Diagram

3%	1.67 lx
5%	2.78 lx
10%	5.57 lx
30%	16.7 lx
50%	27.8 lx

Conditions:  
Number of c-planes: 8  
Lux at center: 55.7 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-H12XIP: Standard Optics - Green Only

## Report Summary

### Output

Total Lumens: 1504 lm  
Peak Intensity: 8495 cd  
Illuminance @ 5m: 340 lux  
Fixture Efficacy: 59 lm/W

### Optical

Horizontal Beam Angle (50%): 22.6°  
Vertical Beam Angle (50%): 22.4°  
Horizontal Field Angle (10%): 37.3°  
Vertical Field Angle (10%): 37.1°  
Horizontal Cutoff Angle (3%): 50.2°  
Vertical Cutoff Angle (3%): 50.2°

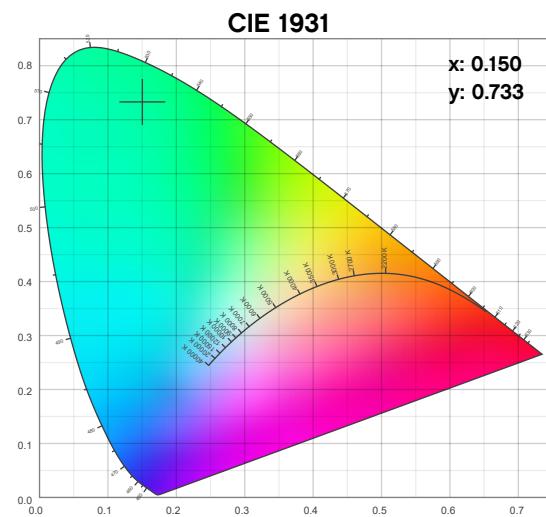
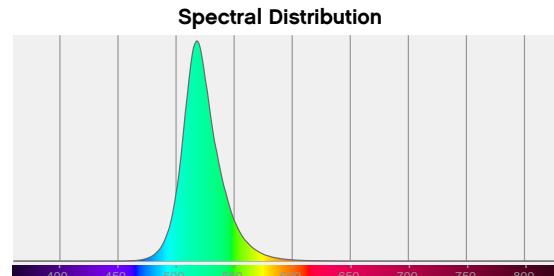
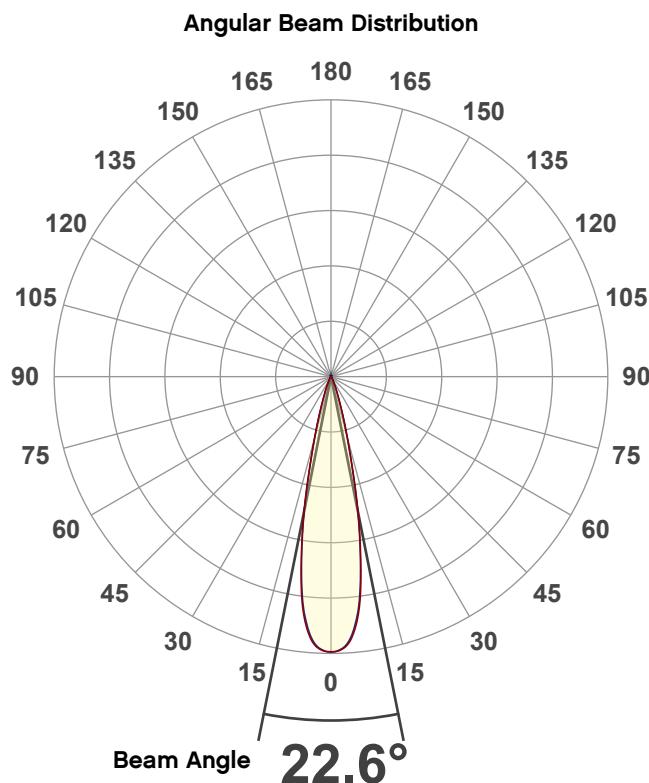


### Conditions

AC Supply: 119 V, 60 Hz  
Power: 26.5 W  
Current: 0.224 A  
Power Factor: 0.96

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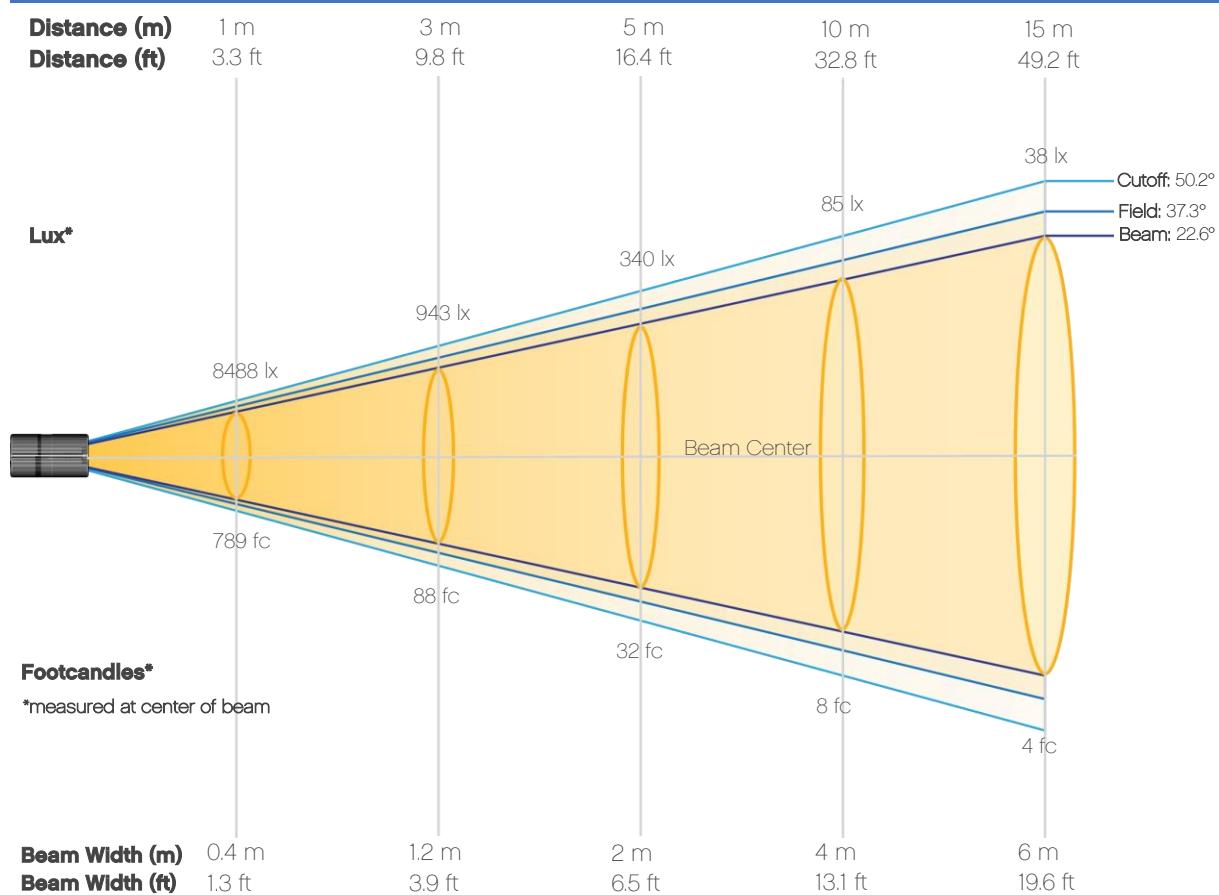
## Overall Measurement



# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Green Only

## Beam Details

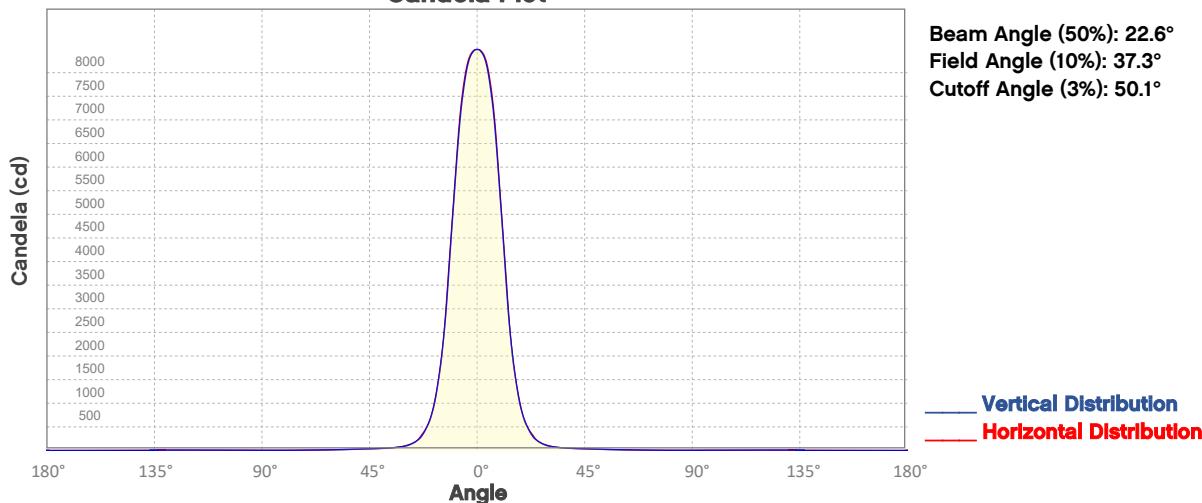


## Beam Illuminances from 1-20m (3.3-65.6ft)

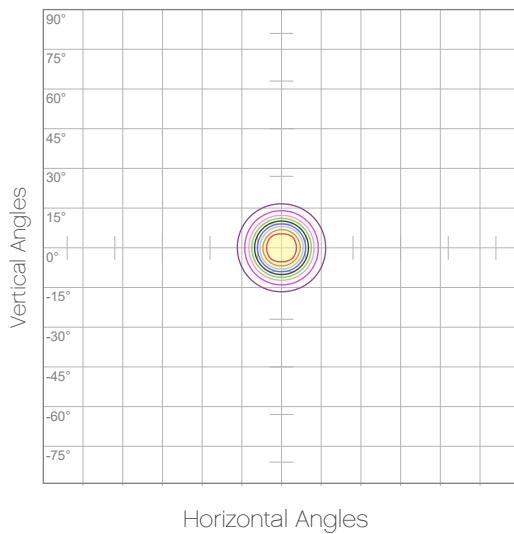
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	8488	2122	943	530	340	236	173	133	105	85
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	70	59	50	43	38	33	29	26	24	21
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	789	197	88	49	32	22	16	12	10	8
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	7	5	5	4	4	3	3	2	2	2

# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Green Only  
Candela Plot



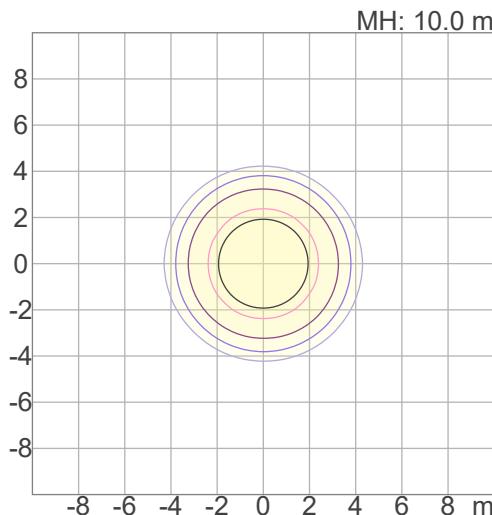
## Polar Diagrams



Iso-candela Diagram

10%	849 cd
20%	1698 cd
30%	2546 cd
40%	3395 cd
50%	4244 cd
60%	5093 cd
70%	5941 cd
80%	6790 cd
90%	7639 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 8488 cd



Iso-illuminance Diagram

3%	2.55 lx
5%	4.24 lx
10%	8.49 lx
30%	25.5 lx
50%	42.4 lx

Conditions:  
Number of c-planes: 8  
Lux at center: 84.9 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-H12XIP:** Standard Optics - Blue Only

## Report Summary

## Output

Total Lumens: 330 lm

Peak Intensity: 1434 cd

Illuminance @ 5m: 57 lux

Fixture Efficacy: 13 lm/W

Optical

Horizontal Beam Angle (50%): 25.8°

Vertical Beam Angle (50%): 25.7°

Horizontal Field Angle (10%): 41.4°

Vertical Field Angle (10%): 40.8°

Horizontal Cutoff Angle (3%): 54.9°

Vertical Cutoff Angle (3%): 54.1°



## Conditions

AC Supply: 119 V, 60.1 Hz

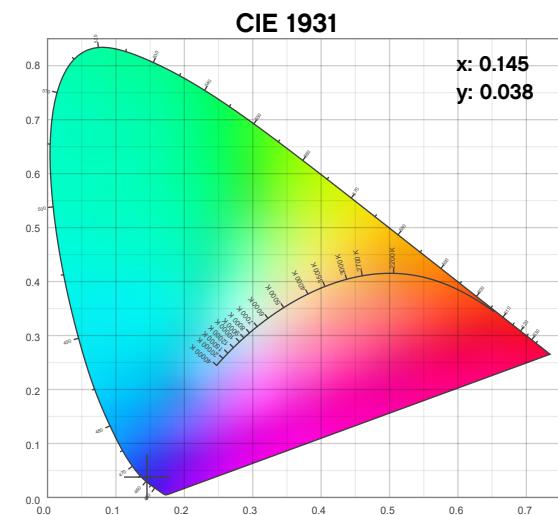
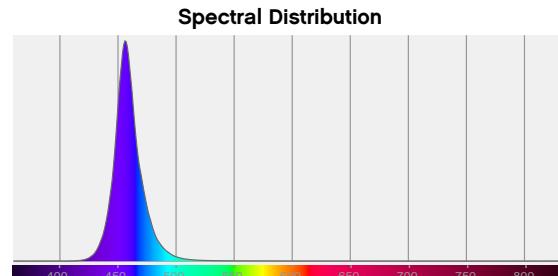
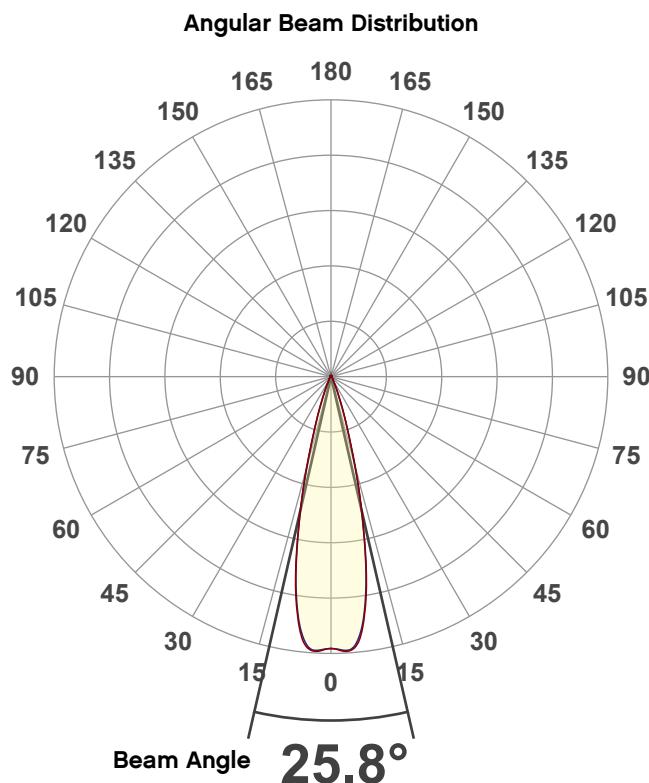
Power: 27.37 W

Current: 0.231 A

Power Factor: 0.96

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpectra Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/26/2022 to LM-63-2002 Standards.

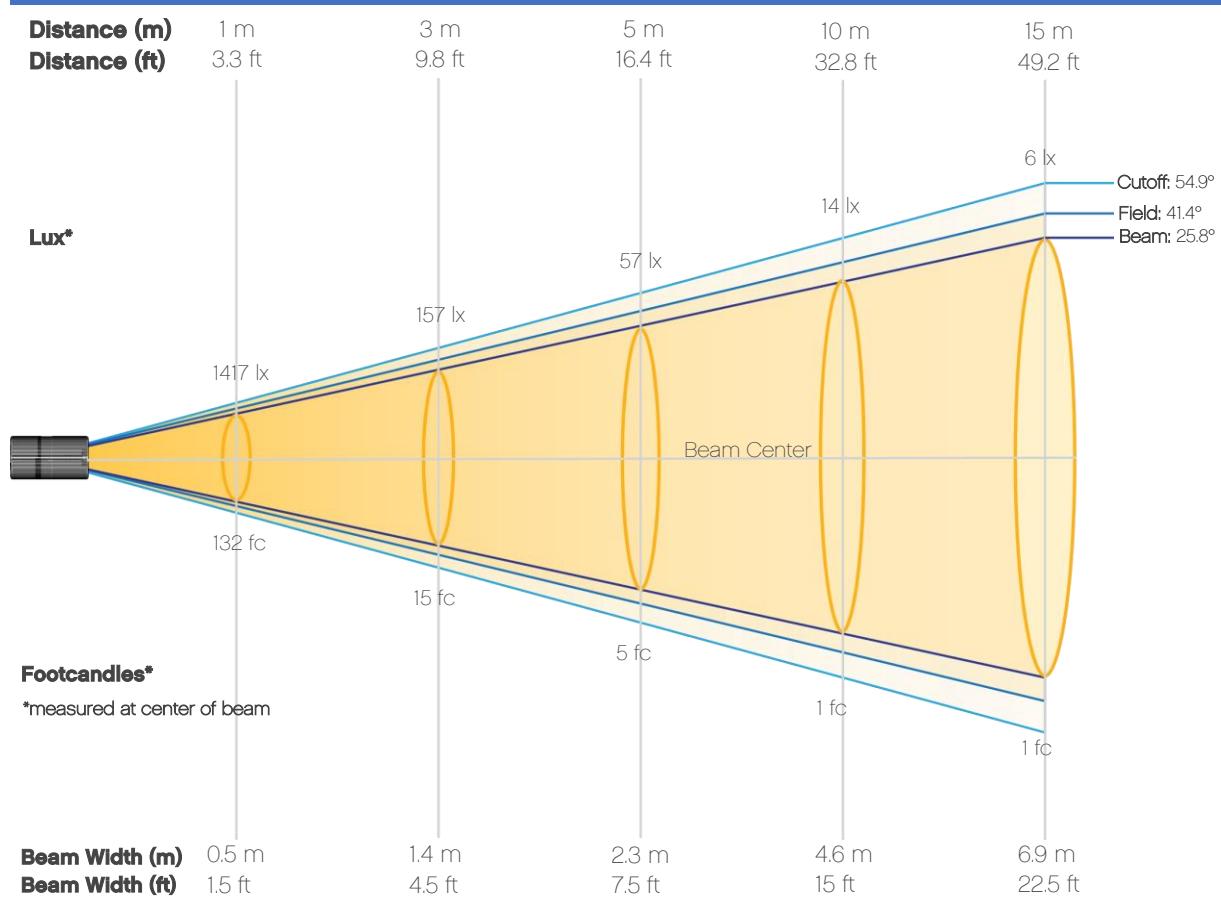
## Overall Measurement



# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Blue Only

## Beam Details

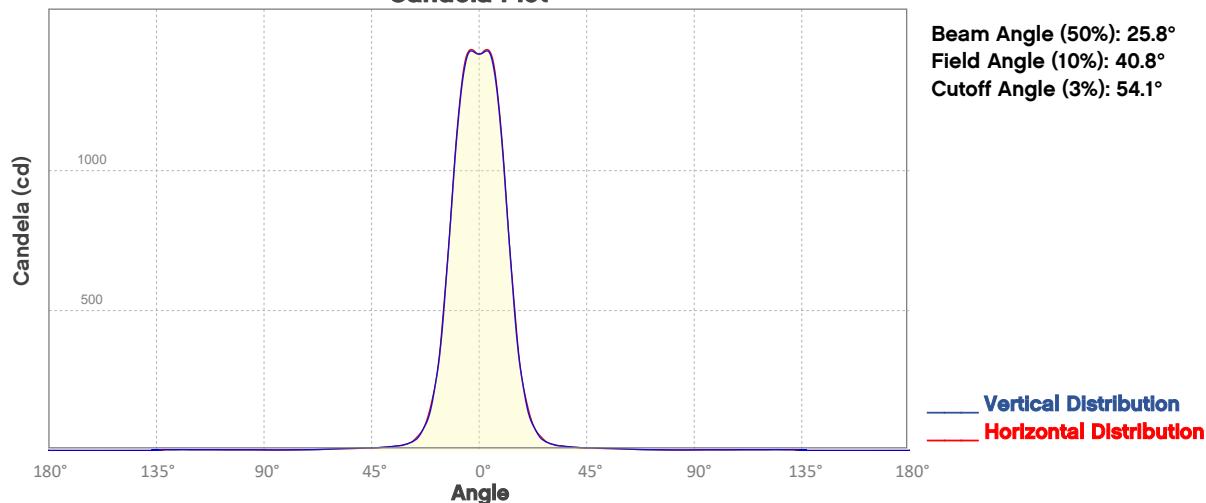


## Beam Illuminances from 1-20m (3.3-65.6ft)

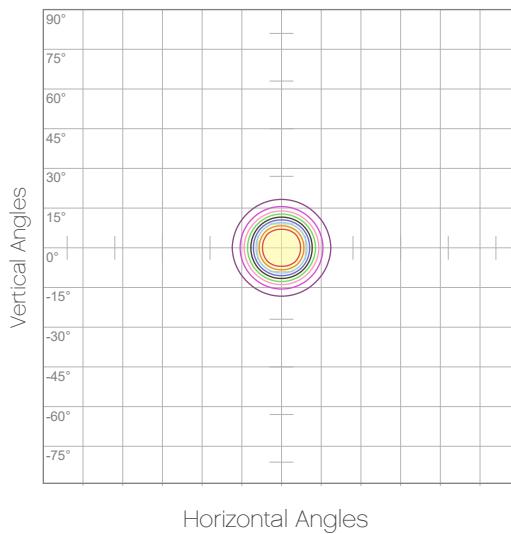
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1417	354	157	89	57	39	29	22	17	14
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	12	10	8	7	6	6	5	4	4	4
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	132	33	15	8	5	4	3	2	2	1
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	1	1	1	1	1	1	0	0	0	0

# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Blue Only  
Candela Plot



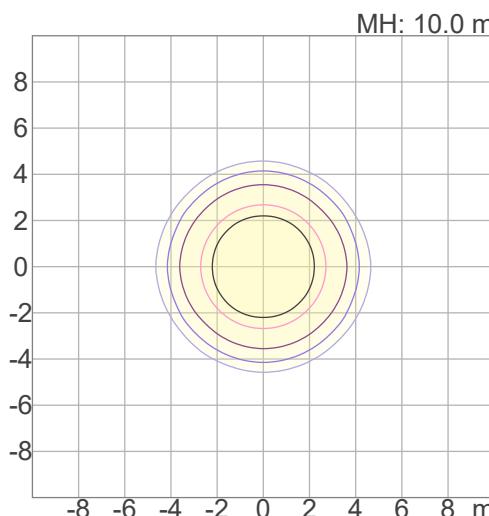
## Polar Diagrams



Iso-candela Diagram

10%	142 cd
20%	283 cd
30%	425 cd
40%	567 cd
50%	708 cd
60%	850 cd
70%	992 cd
80%	1133 cd
90%	1275 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 1417 cd



Iso-illuminance Diagram

3%	0.425 lx
5%	0.708 lx
10%	1.42 lx
30%	4.25 lx
50%	7.08 lx

Conditions:  
Number of c-planes: 8  
Lux at center: 14.2 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-H12XIP: Standard Optics - Amber Only

## Report Summary

### Output

Total Lumens: 717 lm  
Peak Intensity: 2956 cd  
Illuminance @ 5m: 111 lux  
Fixture Efficacy: 33 lm/W

### Optical

Horizontal Beam Angle (50%): 27.8°  
Vertical Beam Angle (50%): 27.4°  
Horizontal Field Angle (10%): 41.2°  
Vertical Field Angle (10%): 41.2°  
Horizontal Cutoff Angle (3%): 54°  
Vertical Cutoff Angle (3%): 53.8°

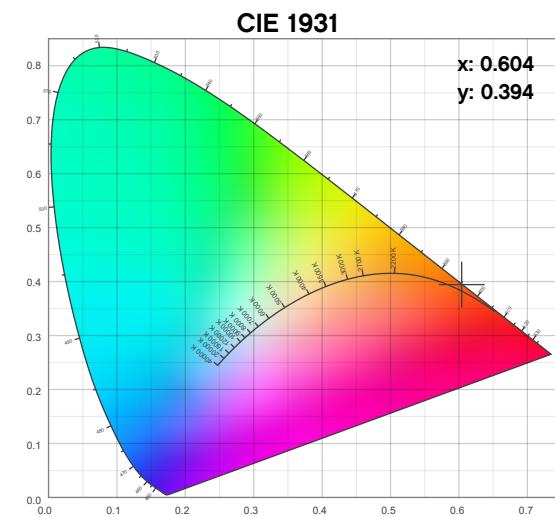
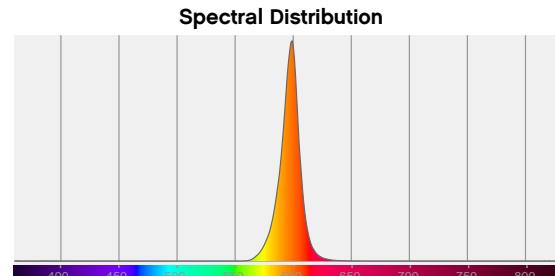
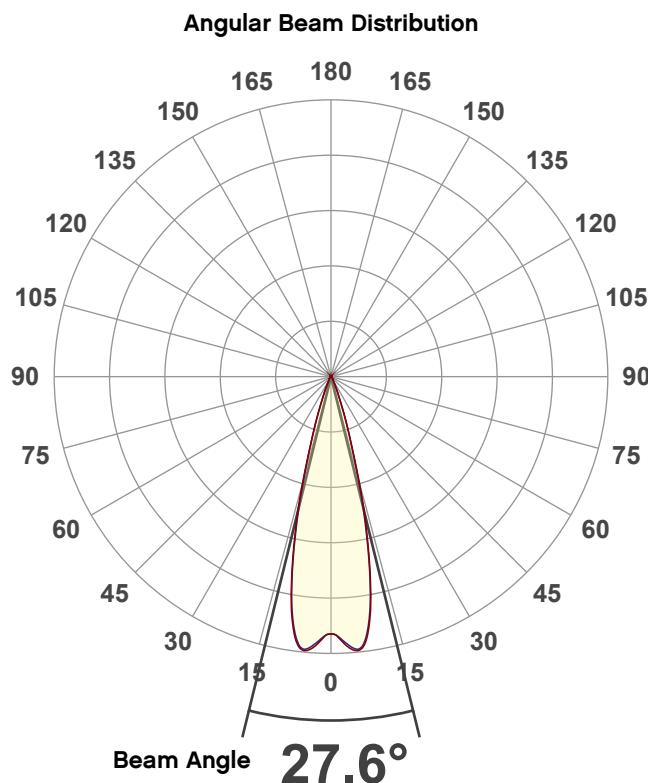


### Conditions

AC Supply: 119 V, 60 Hz  
Power: 22.79 W  
Current: 0.192 A  
Power Factor: 0.95

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 10/26/2022 to LM-63-2002 Standards.

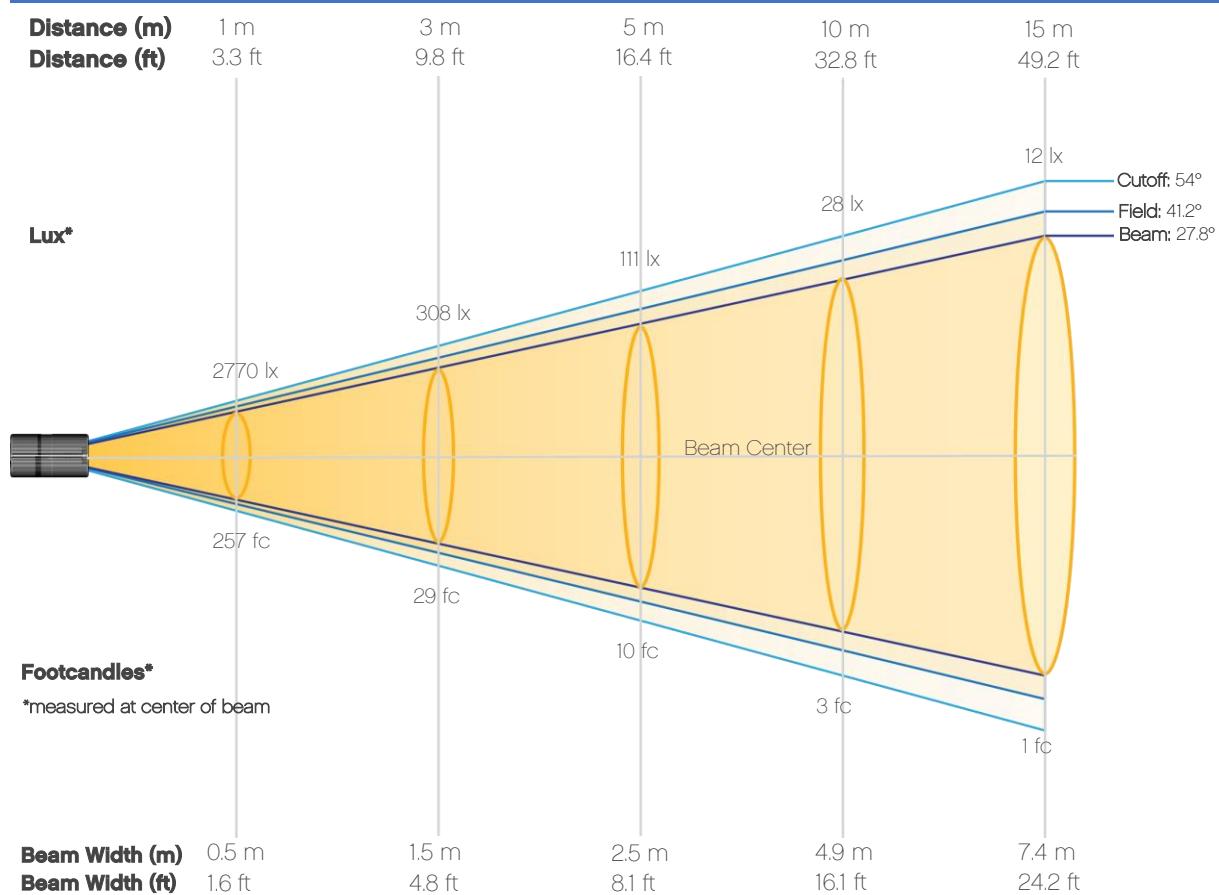
## Overall Measurement



# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Amber Only

## Beam Details



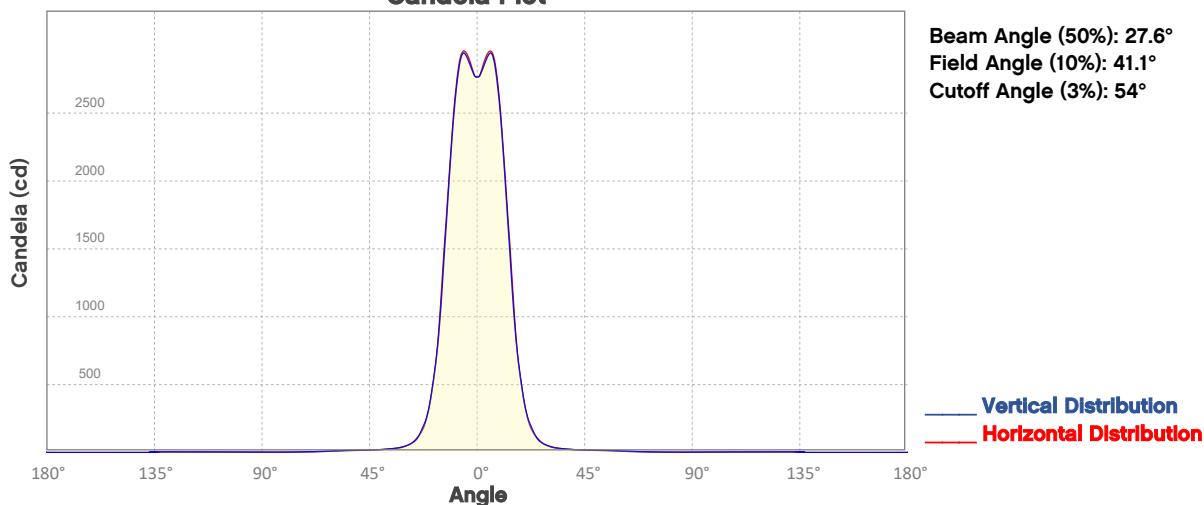
## Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2770	692	308	173	111	77	57	43	34	28
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	23	19	16	14	12	11	10	9	8	7
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	257	64	29	16	10	7	5	4	3	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

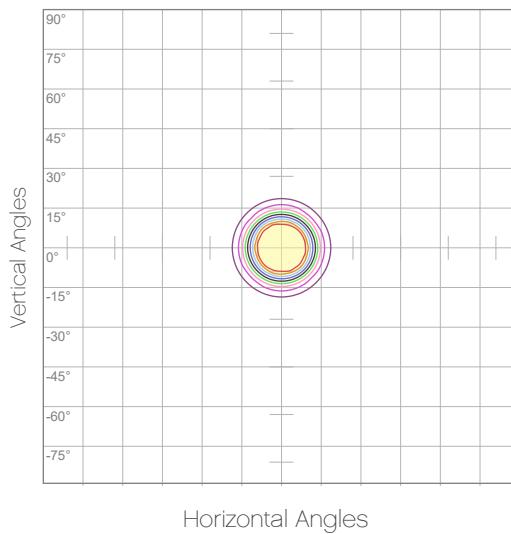
# Photometric Report

COLORdash Par-H12XIP: Standard Optics - Amber Only

## Candela Plot



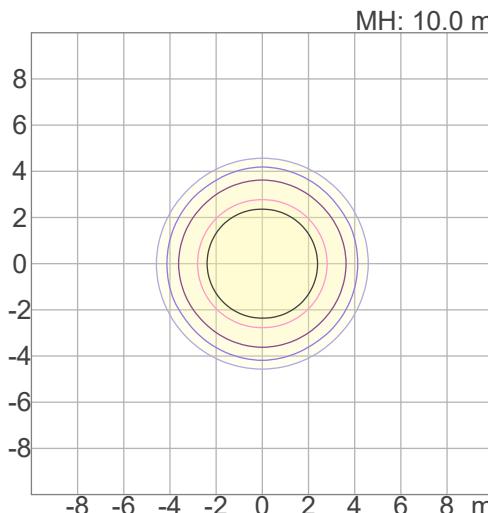
## Polar Diagrams



Iso-candela Diagram

10%	277 cd
20%	554 cd
30%	831 cd
40%	1108 cd
50%	1385 cd
60%	1662 cd
70%	1939 cd
80%	2216 cd
90%	2493 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 2770 cd



Iso-illuminance Diagram

3%	0.831 lx
5%	1.38 lx
10%	2.77 lx
30%	8.31 lx
50%	13.8 lx

Conditions:  
Number of c-planes: 8  
Lux at center: 27.7 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-H12XIP: Standard Optics - White Only

## Report Summary

### Output

Total Lumens: 1703 lm  
Peak Intensity: 12423 cd  
Illuminance @ 5m: 496 lux  
Fixture Efficacy: 66 lm/W

### Optical

Horizontal Beam Angle (50%): 19.9°  
Vertical Beam Angle (50%): 19.7°  
Horizontal Field Angle (10%): 32.3°  
Vertical Field Angle (10%): 32.3°  
Horizontal Cutoff Angle (3%): 44.7°  
Vertical Cutoff Angle (3%): 45.3°

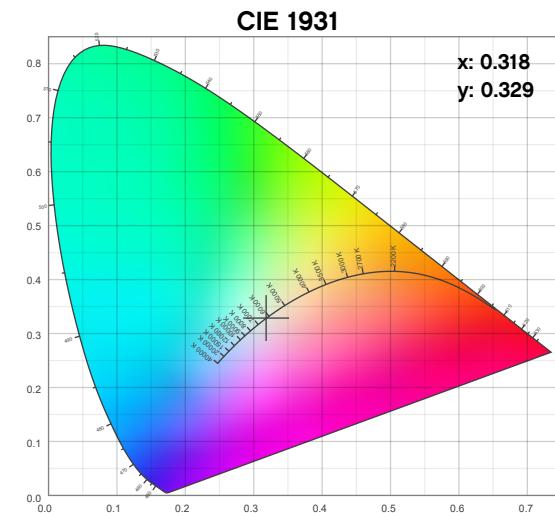
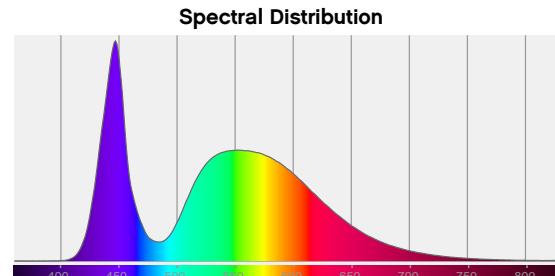
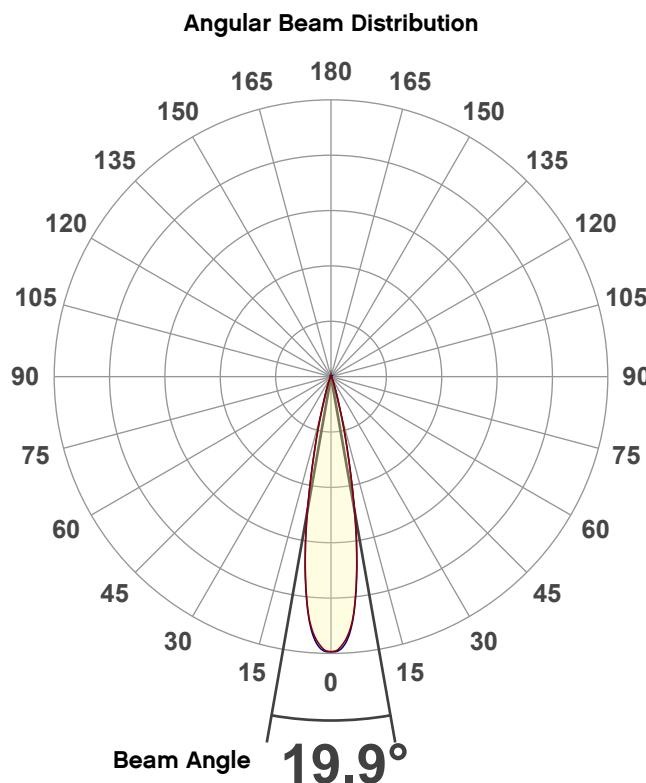


### Conditions

AC Supply: 119 V, 60 Hz  
Power: 26.74 W  
Current: 0.225 A  
Power Factor: 0.96

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 10/26/2022 to LM-63-2002 Standards.

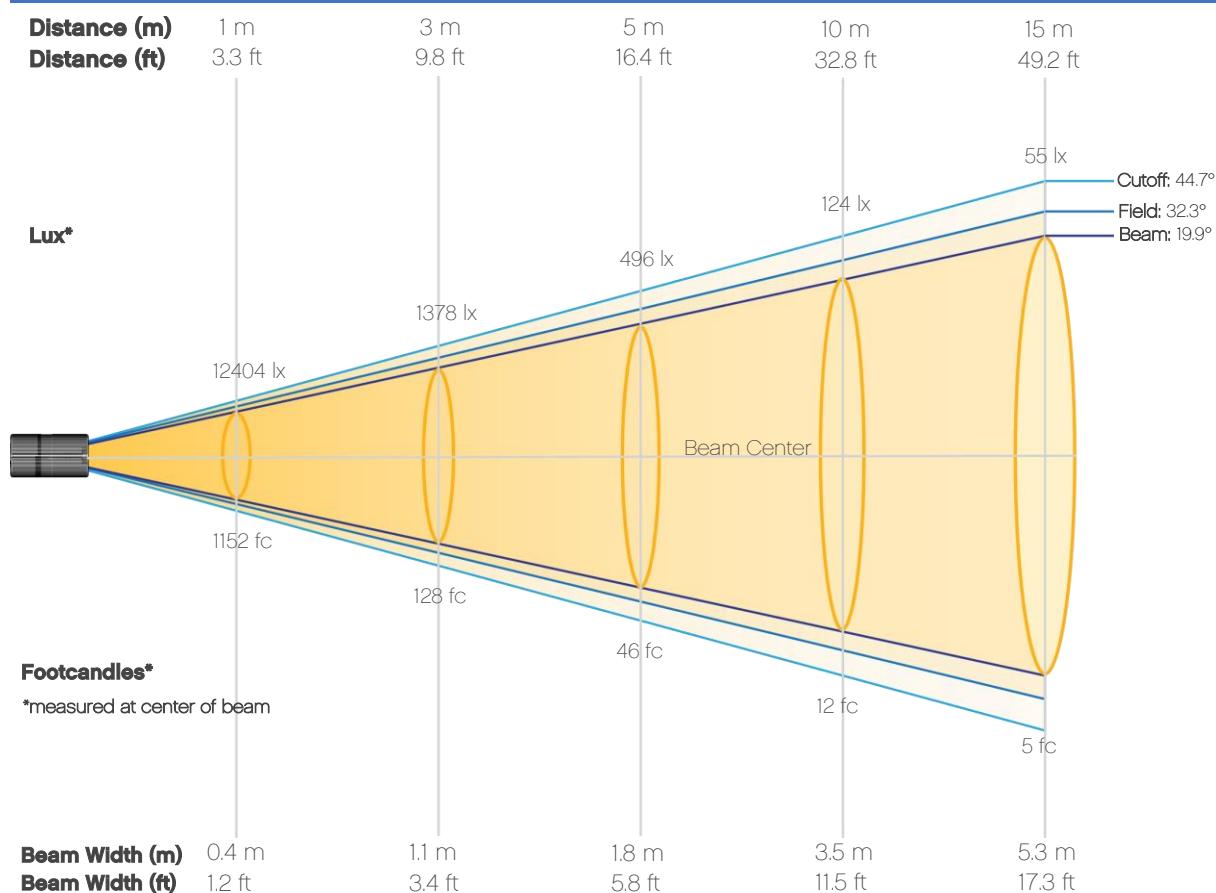
## Overall Measurement



# Photometric Report

COLORdash Par-H12XIP: Standard Optics - White Only

## Beam Details



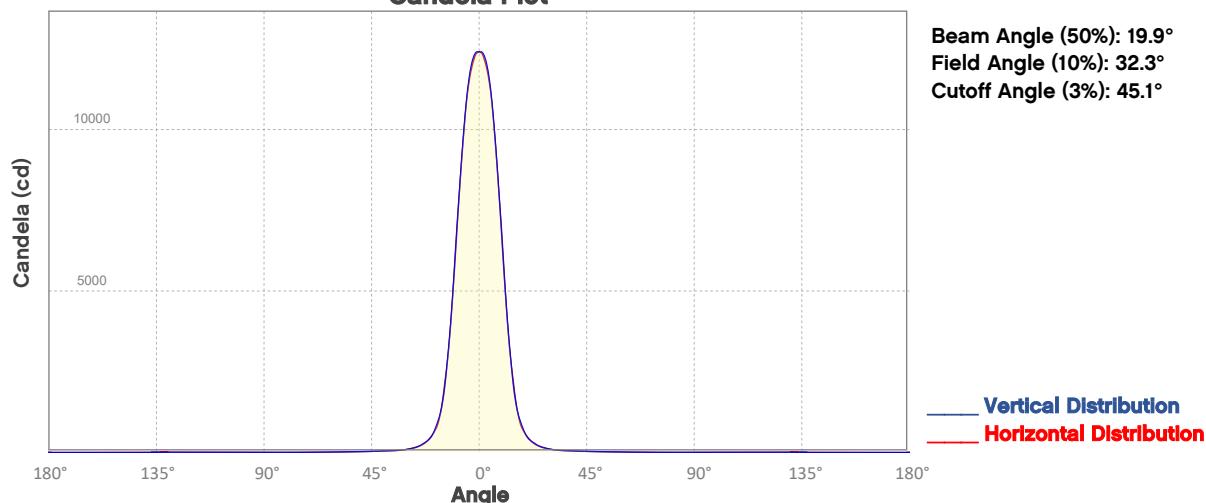
## Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	12404	3101	1378	775	496	345	253	194	153	124
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
Lux	103	86	73	63	55	48	43	38	34	31
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	1152	288	128	72	46	32	24	18	14	12
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	10	8	7	6	5	5	4	4	3	3

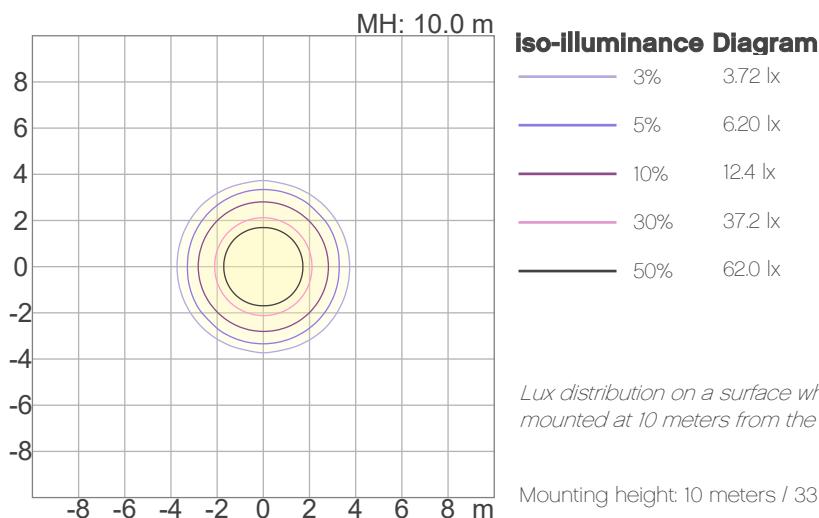
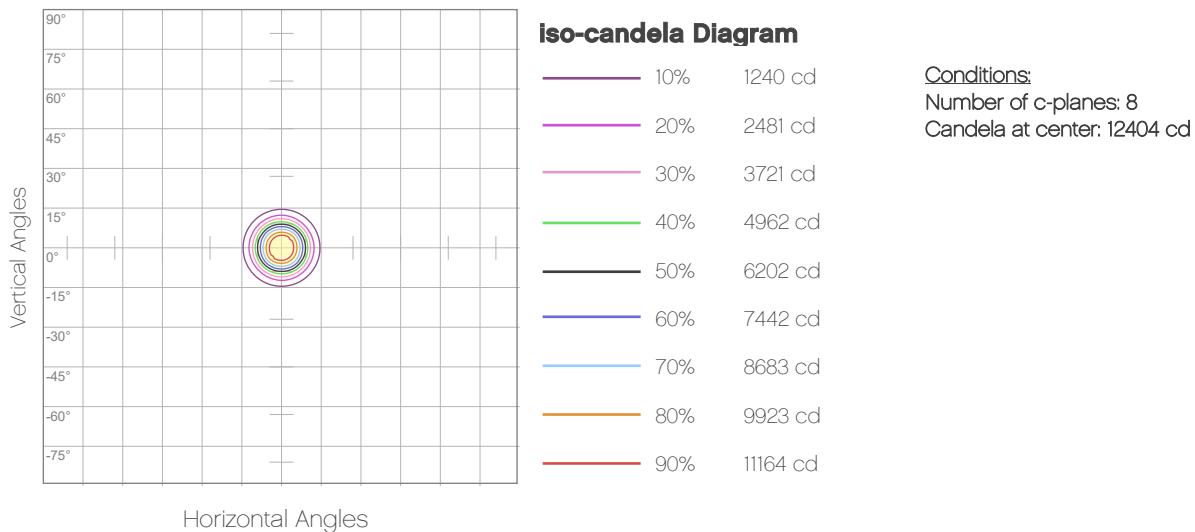
# Photometric Report

COLORdash Par-H12XIP: Standard Optics - White Only

## Candela Plot



## Polar Diagrams



# Photometric Report

COLORdash Par-H12XIP: Standard Optics - UV Only

## Report Summary

### Output

Total Lumens: 39.1 lm

Peak Intensity: 105 cd

Illuminance @ 5m: 4 lux

Fixture Efficacy: 1 lm/W

### Optical

Horizontal Beam Angle (50%): 23.1°

Vertical Beam Angle (50%): 22.9°

Horizontal Field Angle (10%): 39.2°

Vertical Field Angle (10%): 38.4°

Horizontal Cutoff Angle (3%): 265.1°

Vertical Cutoff Angle (3%): 78°



### Conditions

AC Supply: 119 V, 60 Hz

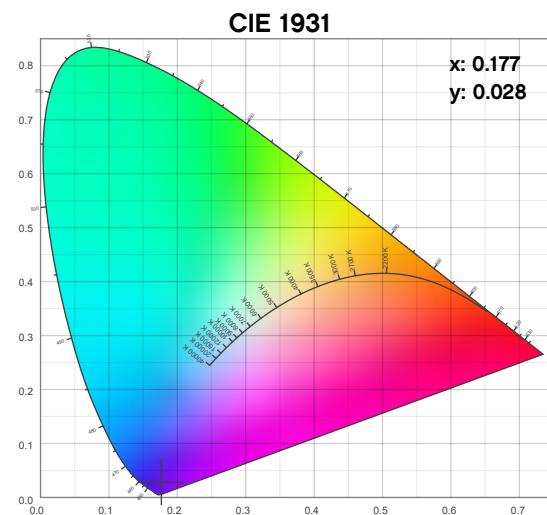
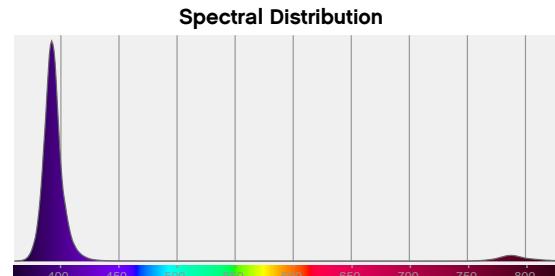
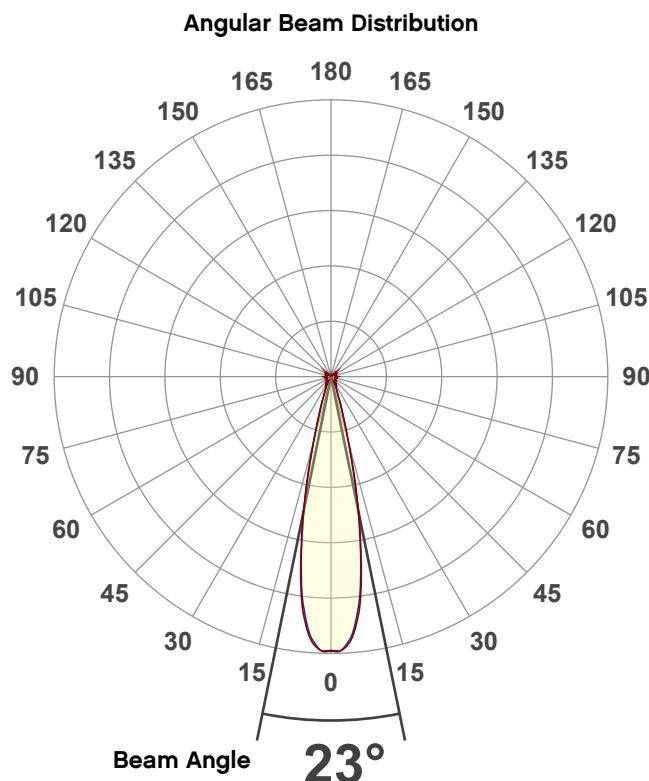
Power: 29.6 W

Current: 0.249 A

Power Factor: 0.97

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 10/26/2022 to LM-63-2002 Standards.

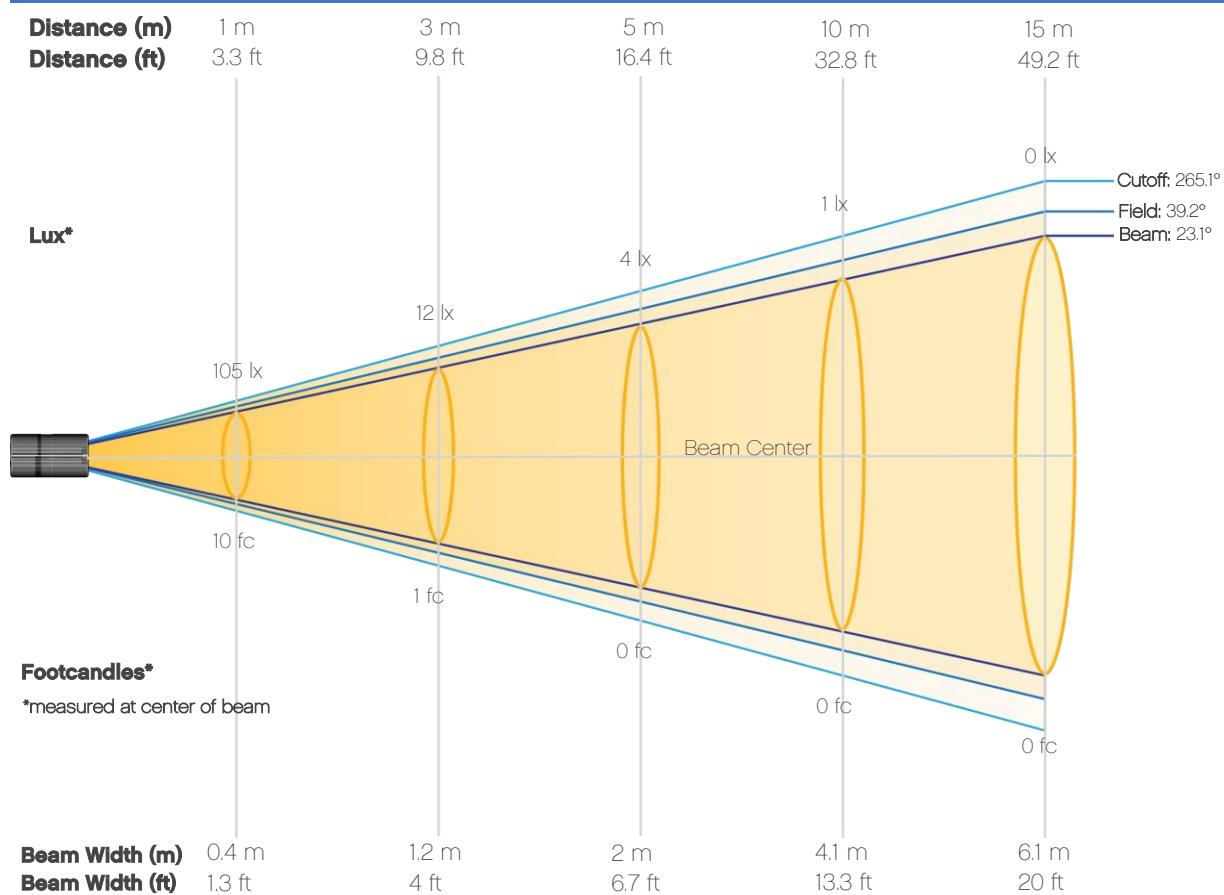
## Overall Measurement



# Photometric Report

COLORdash Par-H12XIP: Standard Optics - UV Only

## Beam Details

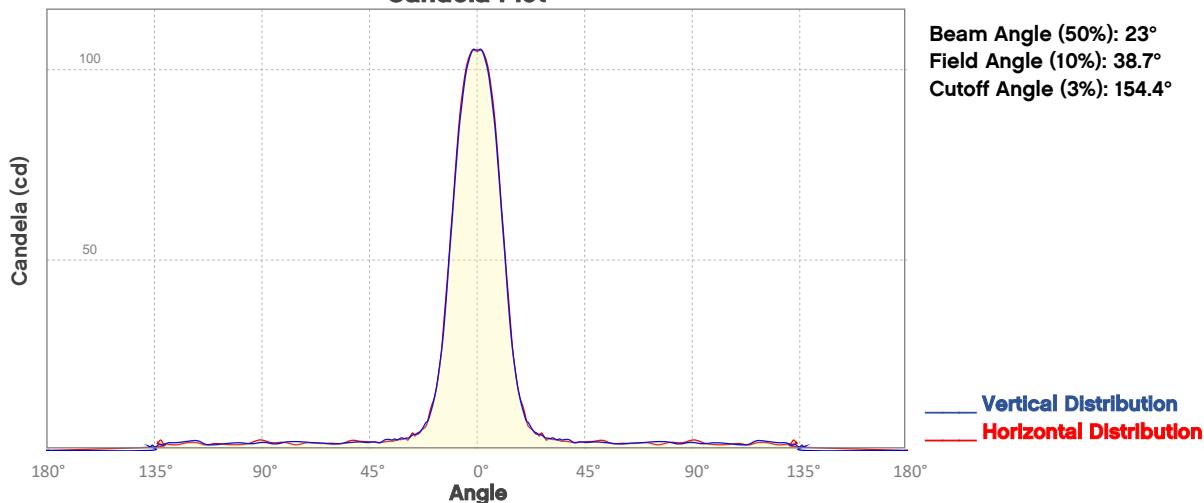


## Beam Illuminances from 1-20m (3.3-65.6ft)

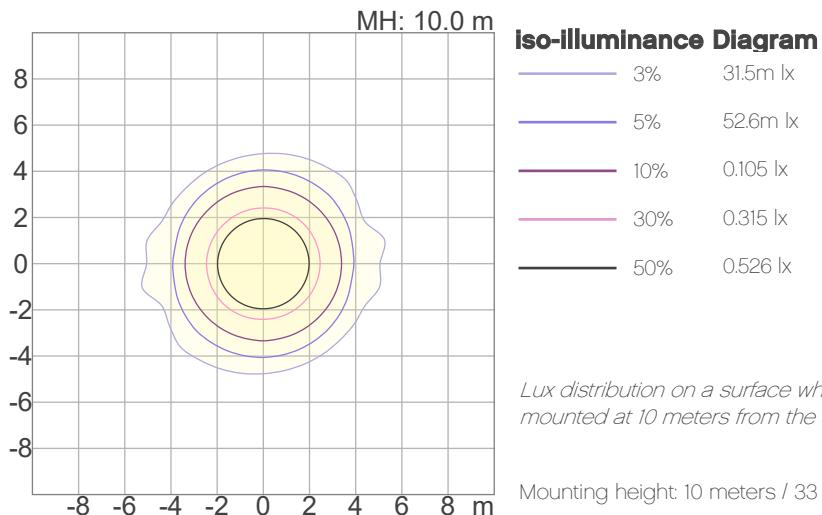
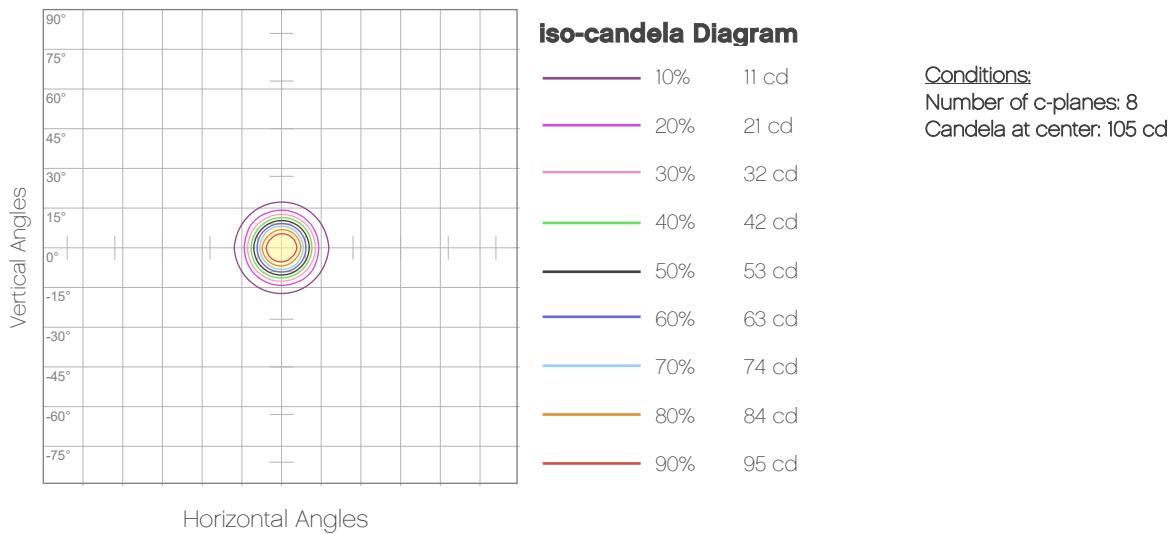
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	105	26	12	7	4	3	2	2	1	1
Distance	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
LUX	1	1	1	1	0	0	0	0	0	0
Distance	3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
FC	10	2	1	1	0	0	0	0	0	0
Distance	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
FC	0	0	0	0	0	0	0	0	0	0

# Photometric Report

COLORdash Par-H12XIP: Standard Optics - UV Only  
Candela Plot



## Polar Diagrams



## Contact Us

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