PHOTOMETRICS REPORT

COLORado Panel Q40

CHAUVET PROFESSIONAL

Table of Contents

Testing Process

Total Illuminance Measurements

Illuminance is measured using the Viso Systems LabSpion®, which takes multiple measurements across a light beam to calculate the total delivered lumens, beam, and field of a product. These values can be described as the empirical output of the product as it projects from the lens or lenses. All photometric data contained in this report are obtained from the actual illuminance of the tested Chauvet light source and are never theoretical values derived from calculations.

Testing Lab Equipment and Process

The Chauvet headquarters in Sunrise, Florida has a climate- and light-controlled photometric testing laboratory where Chauvet products are analyzed and photometric data are measured using the Viso Systems LabSpion® light measurement solution.

This system includes a spectrometer sensor, which measures the precise light and color output of the fixture, and a two-axis goniometer, which rotates the product to allow for multi-angle and multi-directional measurement. The Viso Light Inspector software then collects and summarizes the data. From the data gathered, the software can also measure the beam and field angles, accurate color temperature, color quality, and illuminance at multiple distances. The custom-built, Chauvet-specific template presents this information in the photometric and chromaticity reports that follow.

IES (Illuminating Engineering Society) files, an industry-standard file format, are also generated from each test for easy distribution of photometric data.

Several light meters are also used for specific products or to recheck for precision. Accuracy is verified using one or more of the devices listed below:

- Sekonic SpectroMaster C-700-U
- EXTECH HD450 Datalogging Heavy Duty Light Meter
- Asensetek Essence Lighting Passport

To ensure accurate measurements in every photometric or chromaticity test, Chauvet routinely calibrates the LabSpion® system every six months as recommended by Viso Systems.

Photometric Report

COLORado Panel Q40: Standard Optics, Full Power

Report Summary

Output

Total Lumens: 25274 lm
Peak Intensity: 261928 cd
Illuminance @ 5m: 10477 lux
Fixture Efficacy: 45 lm/W

Optical

Horizontal Beam Angle (50%): 14.7°
Vertical Beam Angle (50%): 14.7°
Horizontal Field Angle (10%): 27.1°
Vertical Field Angle (10%): 27.1°
Horizontal Cutoff Angle (3%): 39.2°
Vertical Cutoff Angle (3%): 39.2°

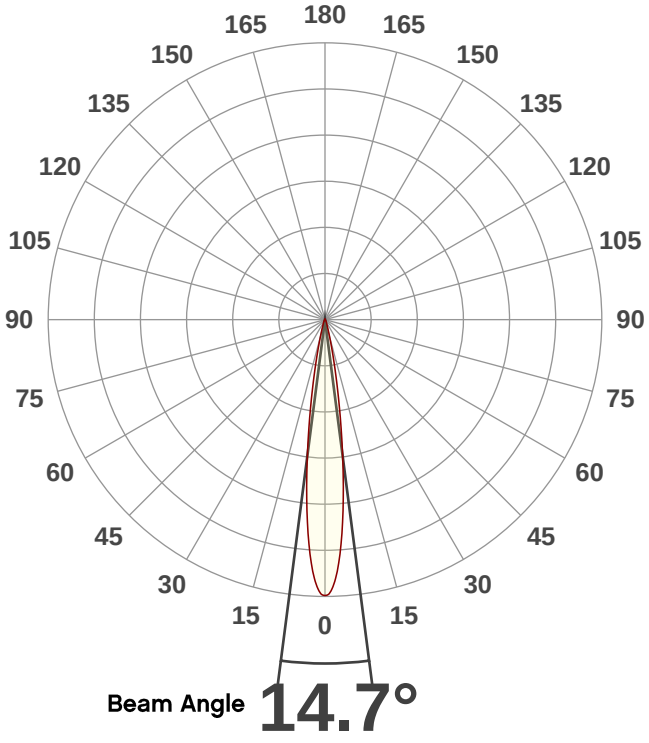
Conditions

AC Supply: 114 V, 60 Hz
Power: 570.88 W
Current: 5.00 A
Power Factor: 0.99

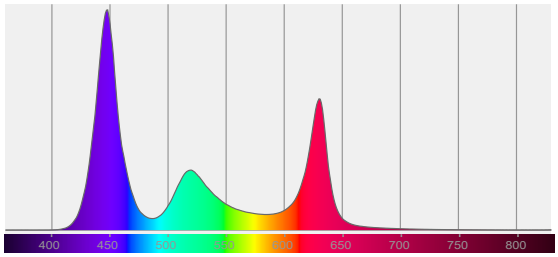
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 9/26/2019 to LM-63-2002 Standards.

Overall Measurement

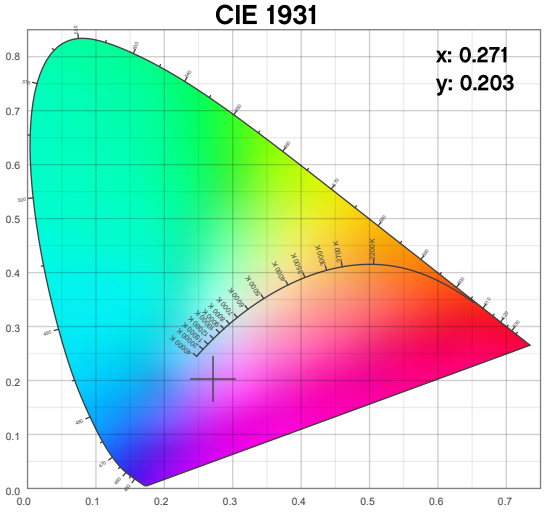
Angular Beam Distribution



Spectral Distribution



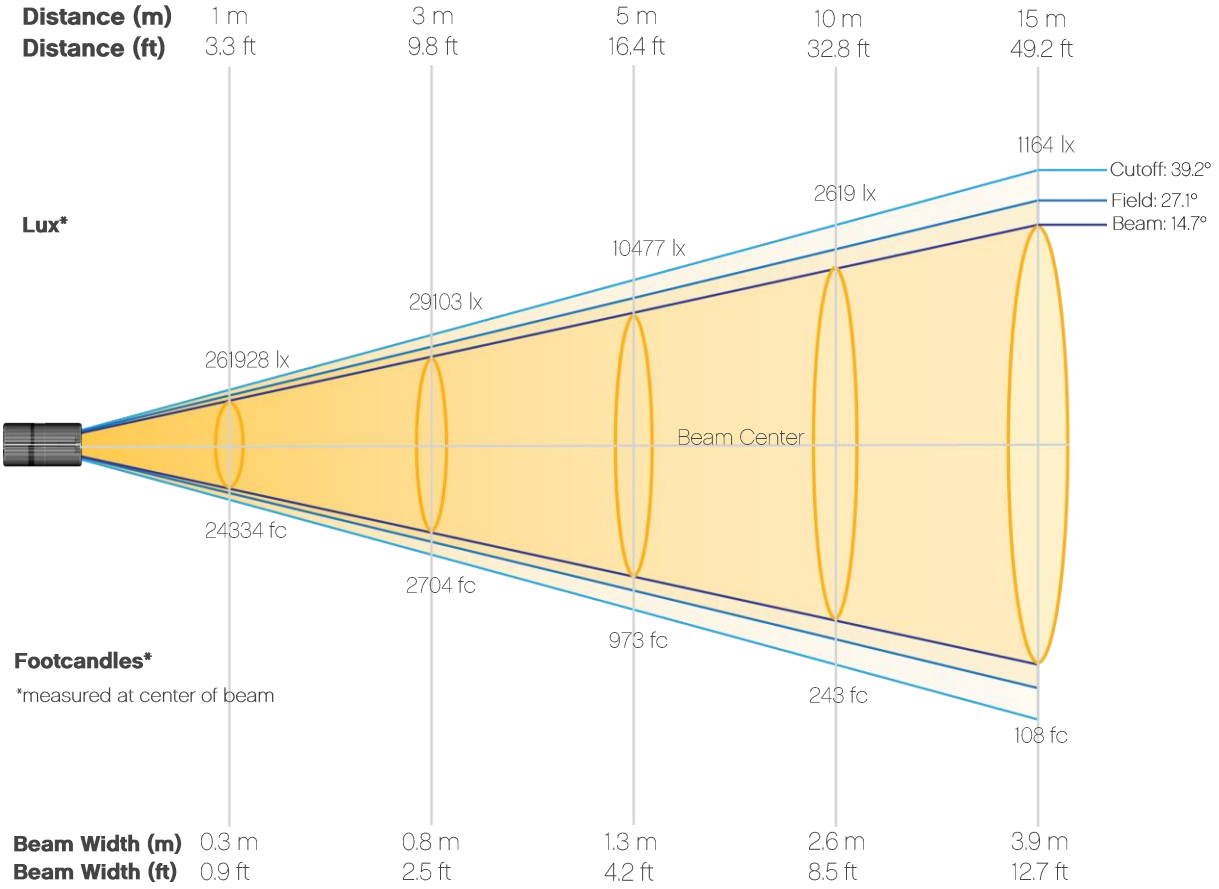
CIE 1931



Photometric Report

COLORado Panel Q40: Standard Optics, Full Power

Beam Details

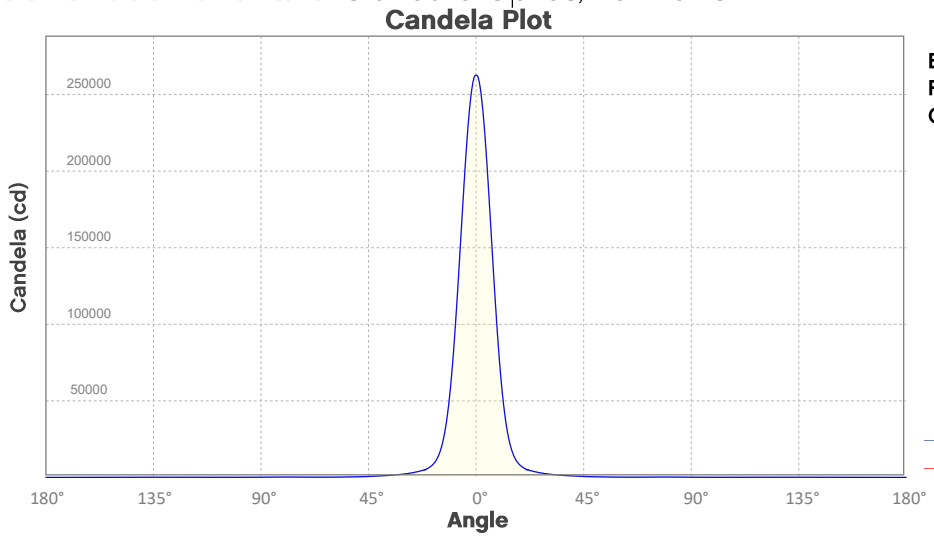


Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	261928	65482	29103	16371	10477	7276	5345	4093	3234	2619
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2165	1819	1550	1336	1164	1023	906	808	726	655
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	24334	6083	2704	1521	973	676	497	380	300	243
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	201	169	144	124	108	95	84	75	67	61

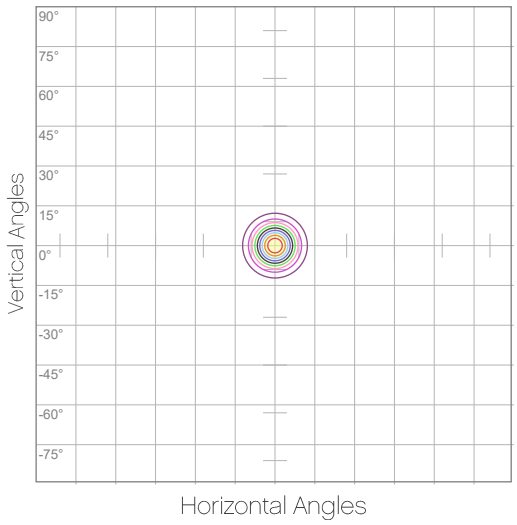
Photometric Report

COLORado Panel Q40: Standard Optics, Full Power



Beam Angle (50%): 14.7°
Field Angle (10%): 27.1°
Cutoff Angle (3%): 39.2°

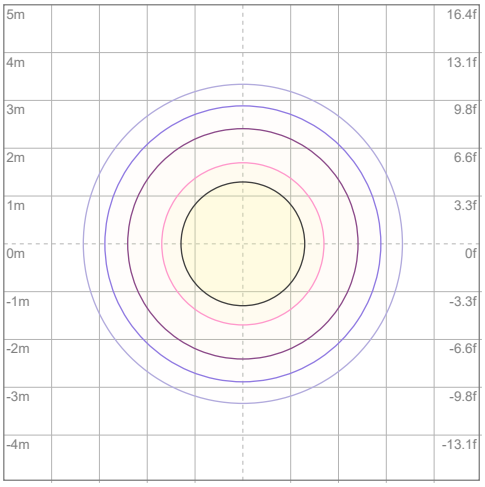
Polar Diagrams



iso-candela Diagram

10%	26193 cd
20%	52386 cd
30%	78578 cd
40%	104771 cd
50%	130964 cd
60%	157157 cd
70%	183350 cd
80%	209543 cd
90%	235735 cd

Conditions:
Number of c-planes: 2
Candela at center: 261928 cd



iso-illuminance Diagram

3%	78.6 lx
5%	131 lx
10%	262 lx
30%	786 lx
50%	1310 lx

Conditions:
Number of c-planes: 2
Lux at center: 2619 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORado Panel Q40: Standard Optics-w/50deg Filter, Full Power

Report Summary

Output

Total Lumens: 21922 lm
Peak Intensity: 66193 cd
Illuminance @ 5m: 2648 lux
Fixture Efficacy: 39 lm/W

Optical

Horizontal Beam Angle (50%): 26.9°
Vertical Beam Angle (50%): 26.9°
Horizontal Field Angle (10%): 54.9°
Vertical Field Angle (10%): 54.9°
Horizontal Cutoff Angle (3%): 78.9°
Vertical Cutoff Angle (3%): 78.9°

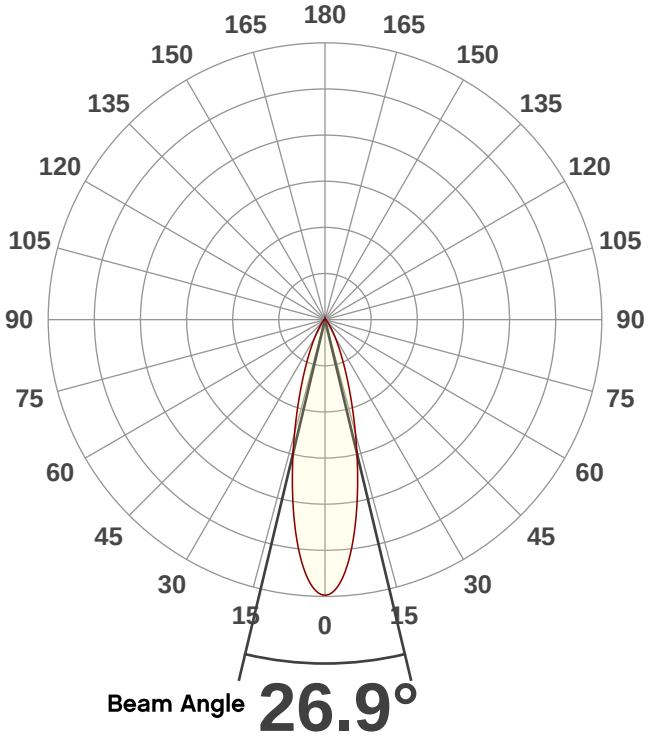
Conditions

AC Supply: 114 V, 60 Hz
Power: 569.45 W
Current: 4.99 A
Power Factor: 0.99

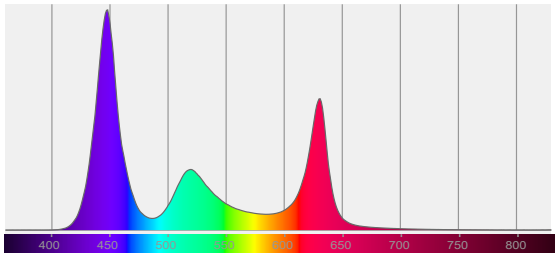
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 9/26/2019 to LM-63-2002 Standards.

Overall Measurement

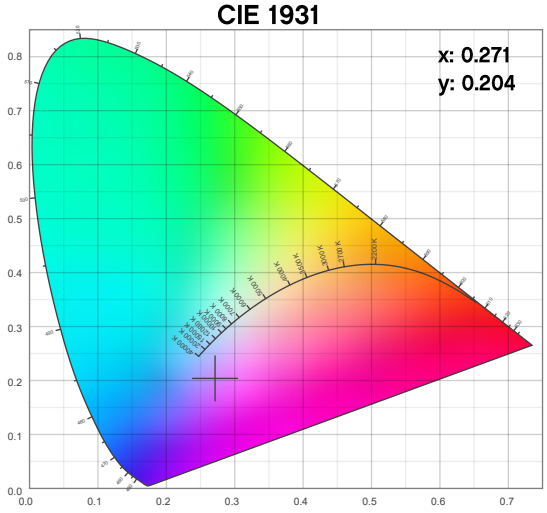
Angular Beam Distribution



Spectral Distribution



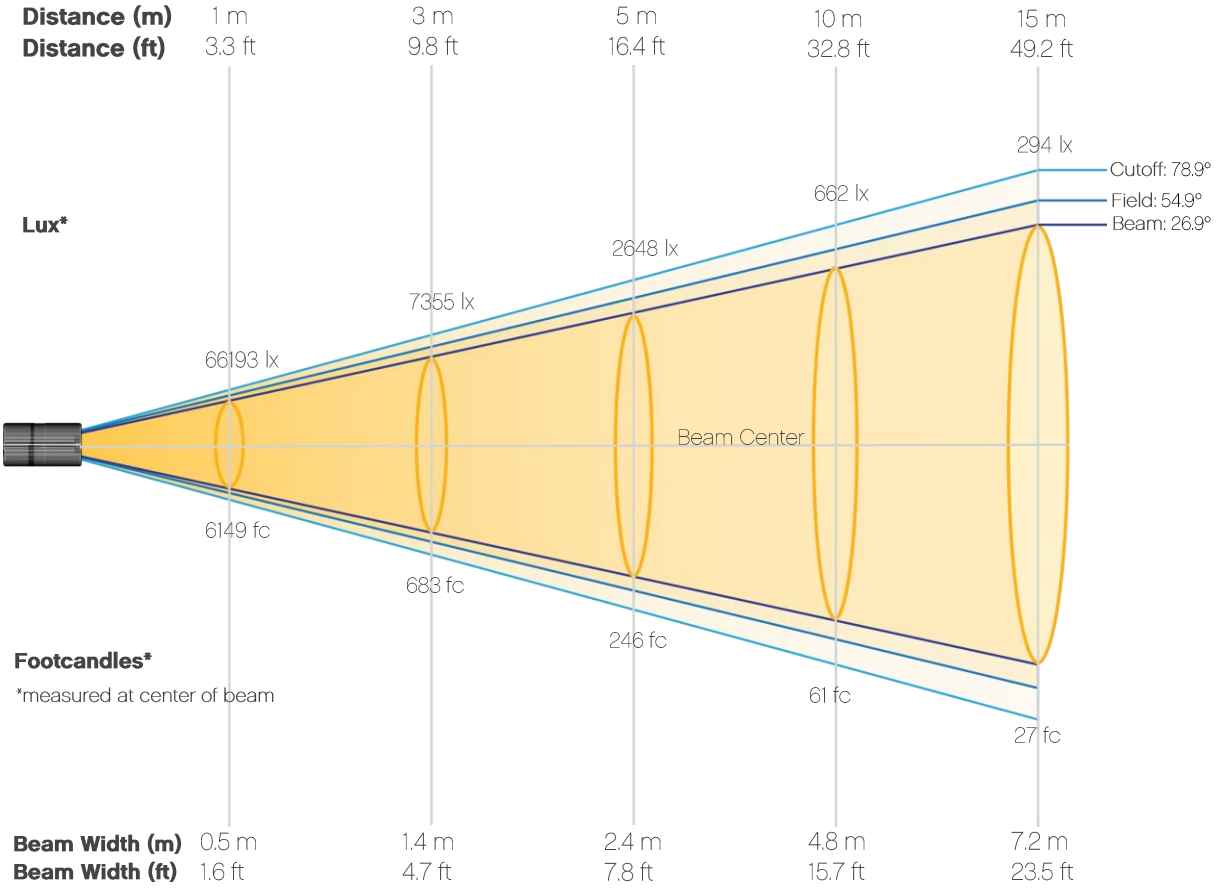
CIE 1931



Photometric Report

COLORado Panel Q40: Standard Optics-w/50deg Filter, Full Power

Beam Details



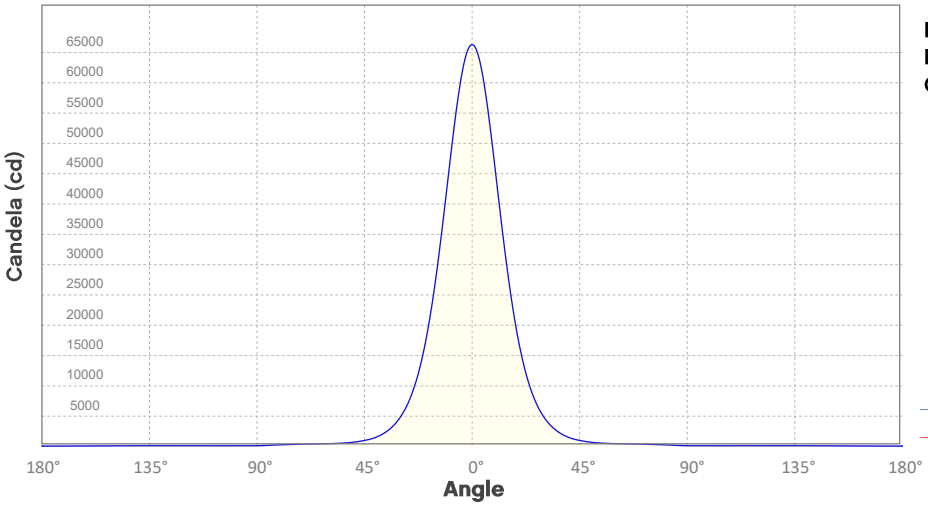
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	66193	16548	7355	4137	2648	1839	1351	1034	817	662
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	547	460	392	338	294	259	229	204	183	165
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	6149	1537	683	384	246	171	125	96	76	61
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	51	43	36	31	27	24	21	19	17	15

Photometric Report

COLORado Panel Q40: Standard Optics-w/50deg Filter, Full Power

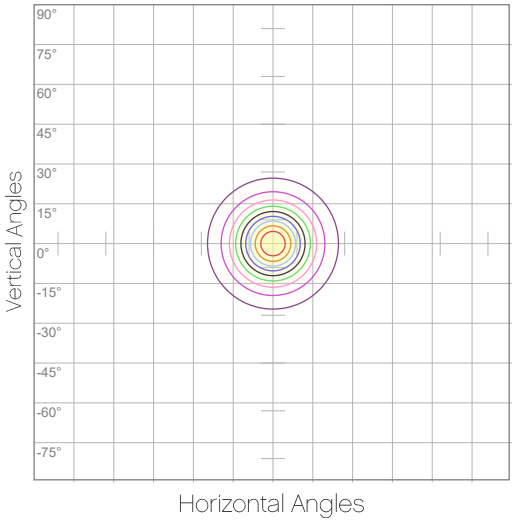
Candela Plot



Beam Angle (50%): 26.9°
Field Angle (10%): 54.9°
Cutoff Angle (3%): 78.9°

Horizontal Distribution
Vertical Distribution

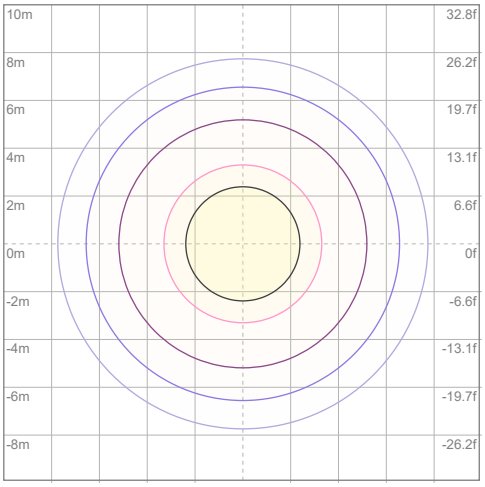
Polar Diagrams



iso-candela Diagram

10%	6619 cd
20%	13239 cd
30%	19858 cd
40%	26477 cd
50%	33096 cd
60%	39716 cd
70%	46335 cd
80%	52954 cd
90%	59573 cd

Conditions:
Number of c-planes: 2
Candela at center: 66193 cd



iso-illuminance Diagram

3%	19.9 lx
5%	33.1 lx
10%	66.2 lx
30%	199 lx
50%	331 lx

Conditions:
Number of c-planes: 2
Lux at center: 662 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORado Panel Q40: Accessory Optics-w/60x10deg Filter, Full Power

Report Summary

Output

Total Lumens: 19011 lm
Peak Intensity: 30567 cd
Illuminance @ 5m: 1167 lux
Fixture Efficacy: 32 lm/W

Optical

Horizontal Beam Angle (50%): 72.5°
Vertical Beam Angle (50%): 18.9°
Horizontal Field Angle (10%): 106.3°
Vertical Field Angle (10%): 44.8°
Horizontal Cutoff Angle (3%): 134.3°
Vertical Cutoff Angle (3%): 80.7°

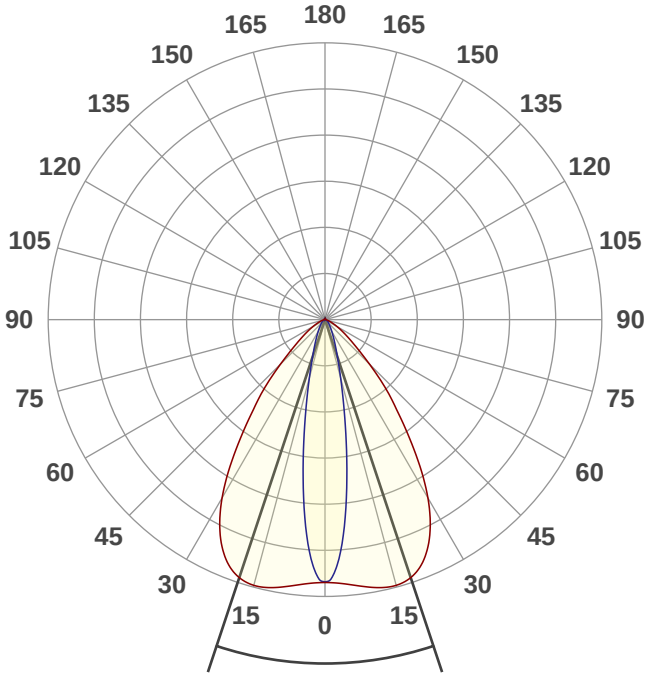
Conditions

AC Supply: 116 V, 60.1 Hz
Power: 594.67 W
Current: 5.14 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 2/13/2020 to LM-63-2002 Standards.

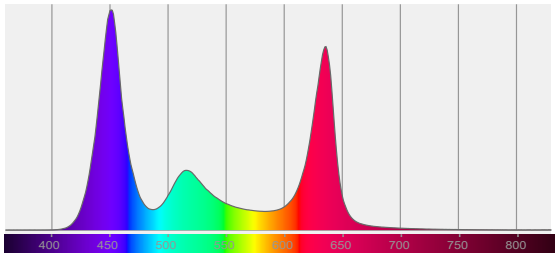
Overall Measurement

Angular Beam Distribution

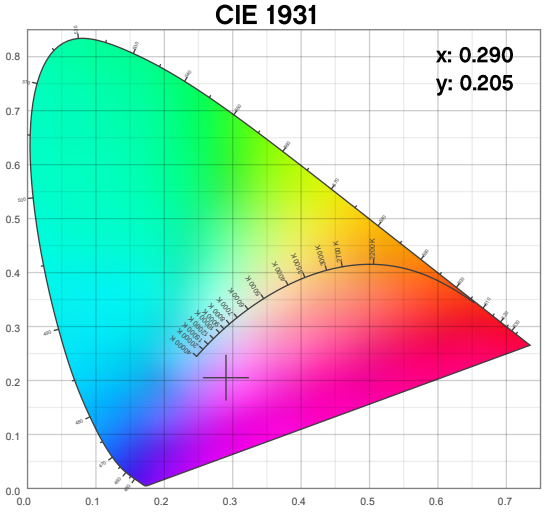


Beam Angle **36.8°**

Spectral Distribution



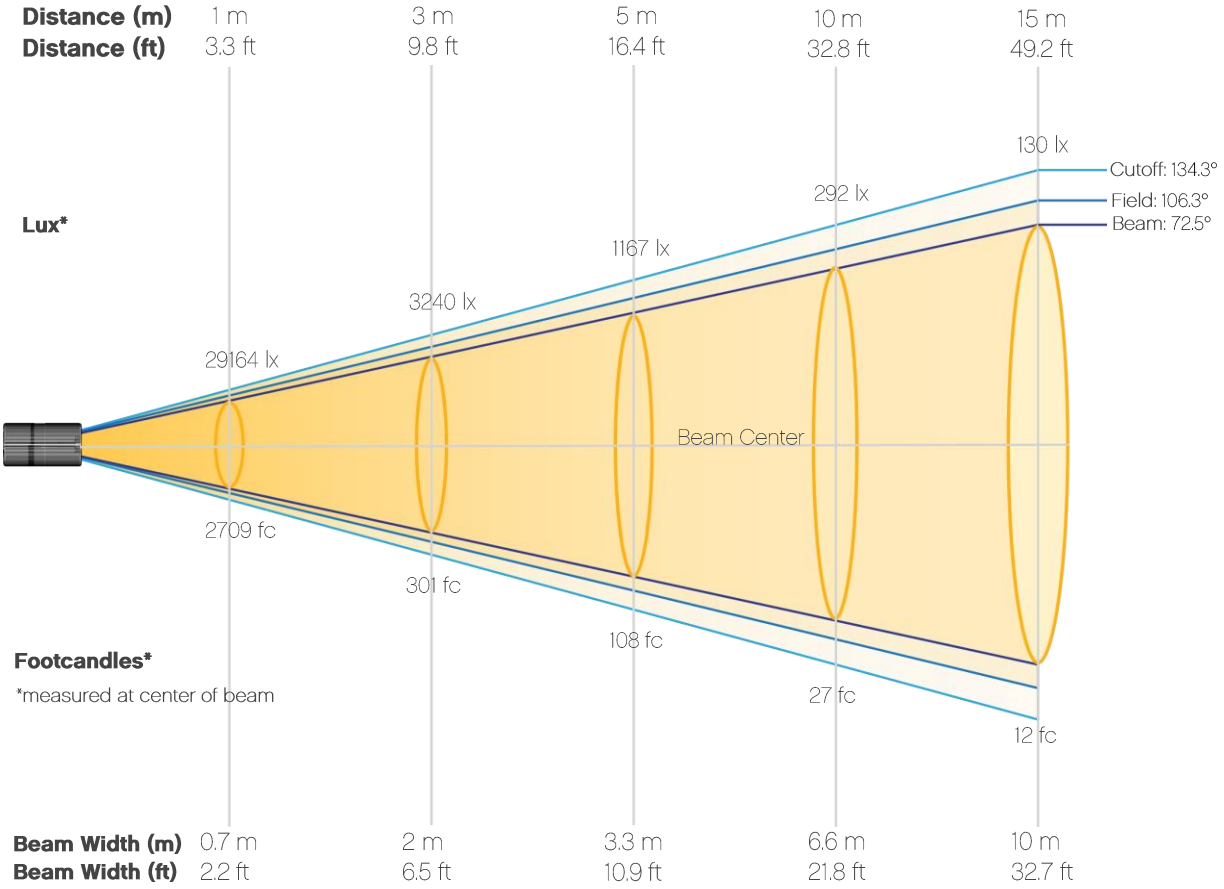
CIE 1931



Photometric Report

COLORado Panel Q40: Accessory Optics-w/60x10deg Filter, Full Power

Beam Details



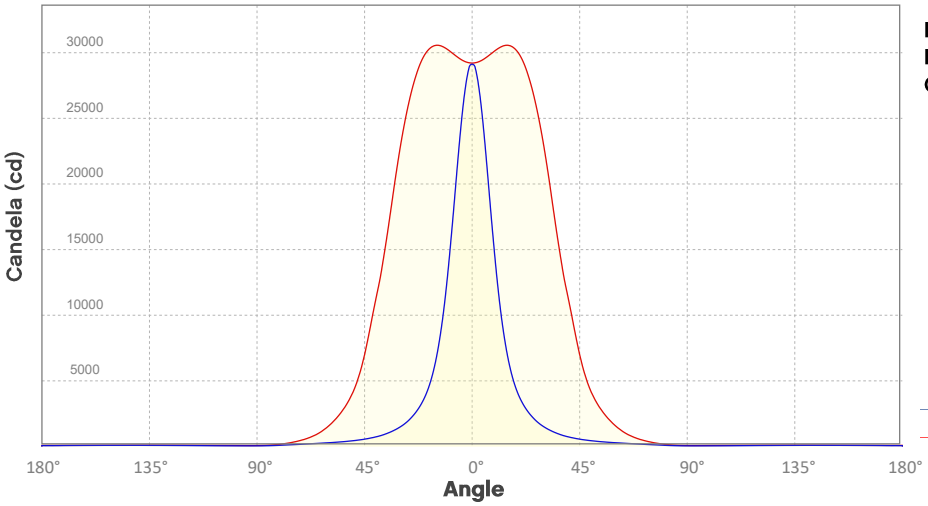
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	29164	7291	3240	1823	1167	810	595	456	360	292
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	241	203	173	149	130	114	101	90	81	73
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2709	677	301	169	108	75	55	42	33	27
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	22	19	16	14	12	11	9	8	8	7

Photometric Report

COLORado Panel Q40: Accessory Optics-w/60x10deg Filter, Full Power

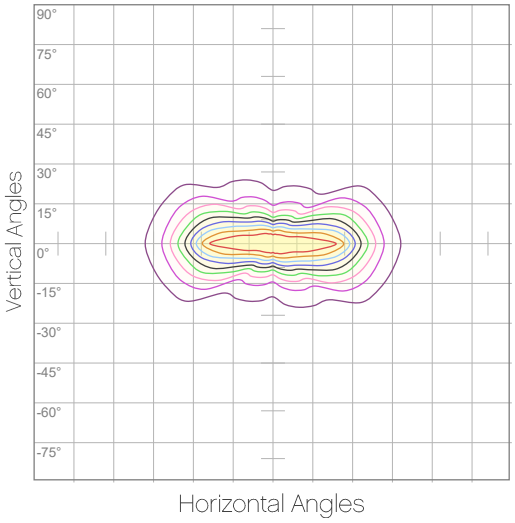
Candela Plot



Beam Angle (50%): 36.8°
Field Angle (10%): 69°
Cutoff Angle (3%): 106.2°

Horizontal Distribution
Vertical Distribution

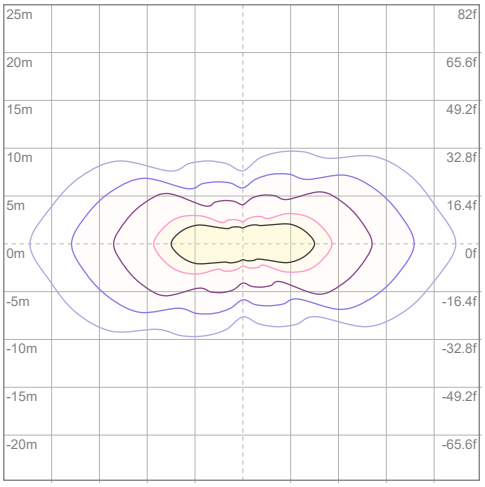
Polar Diagrams



iso-candela Diagram

10%	2916 cd
20%	5833 cd
30%	8749 cd
40%	11666 cd
50%	14582 cd
60%	17498 cd
70%	20415 cd
80%	23331 cd
90%	26247 cd

Conditions:
Number of c-planes: 8
Candela at center: 29164 cd



iso-illuminance Diagram

3%	8.75 lx
5%	14.6 lx
10%	29.2 lx
30%	87.5 lx
50%	146 lx

Conditions:
Number of c-planes: 8
Lux at center: 292 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORado Panel Q40: Accessory Optics-w/60-40 Filter-60deg, Full Power

Report Summary

Output

Total Lumens: 18148 lm
Peak Intensity: 32496 cd
Illuminance @ 5m: 1299 lux
Fixture Efficacy: 31 lm/W

Optical

Horizontal Beam Angle (50%): 46.1°
Vertical Beam Angle (50%): 30.1°
Horizontal Field Angle (10%): 87.3°
Vertical Field Angle (10%): 62.7°
Horizontal Cutoff Angle (3%): 120°
Vertical Cutoff Angle (3%): 91.8°

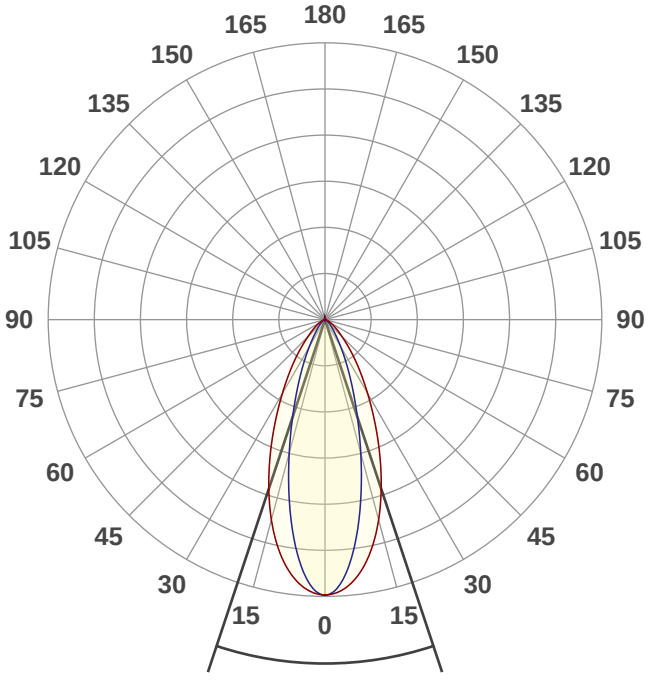
Conditions

AC Supply: 118 V, 60 Hz
Power: 591.3 W
Current: 5.03 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 2/13/2020 to LM-63-2002 Standards.

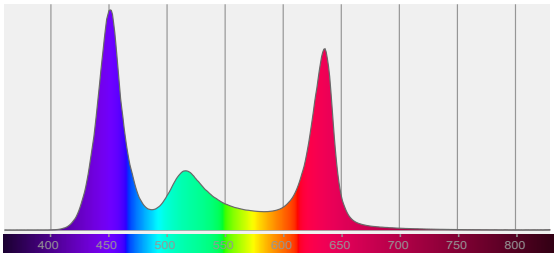
Overall Measurement

Angular Beam Distribution

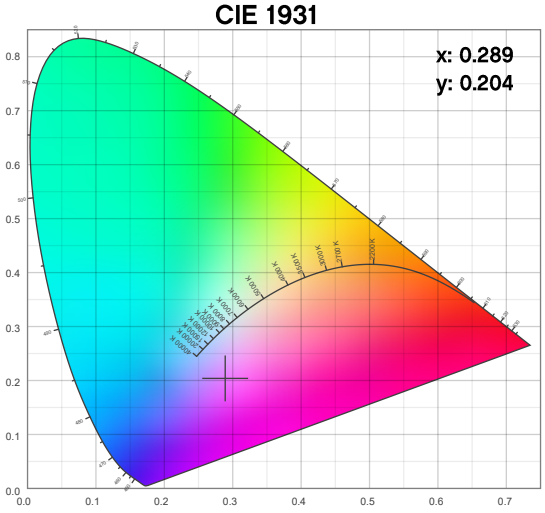


Beam Angle **36.7°**

Spectral Distribution



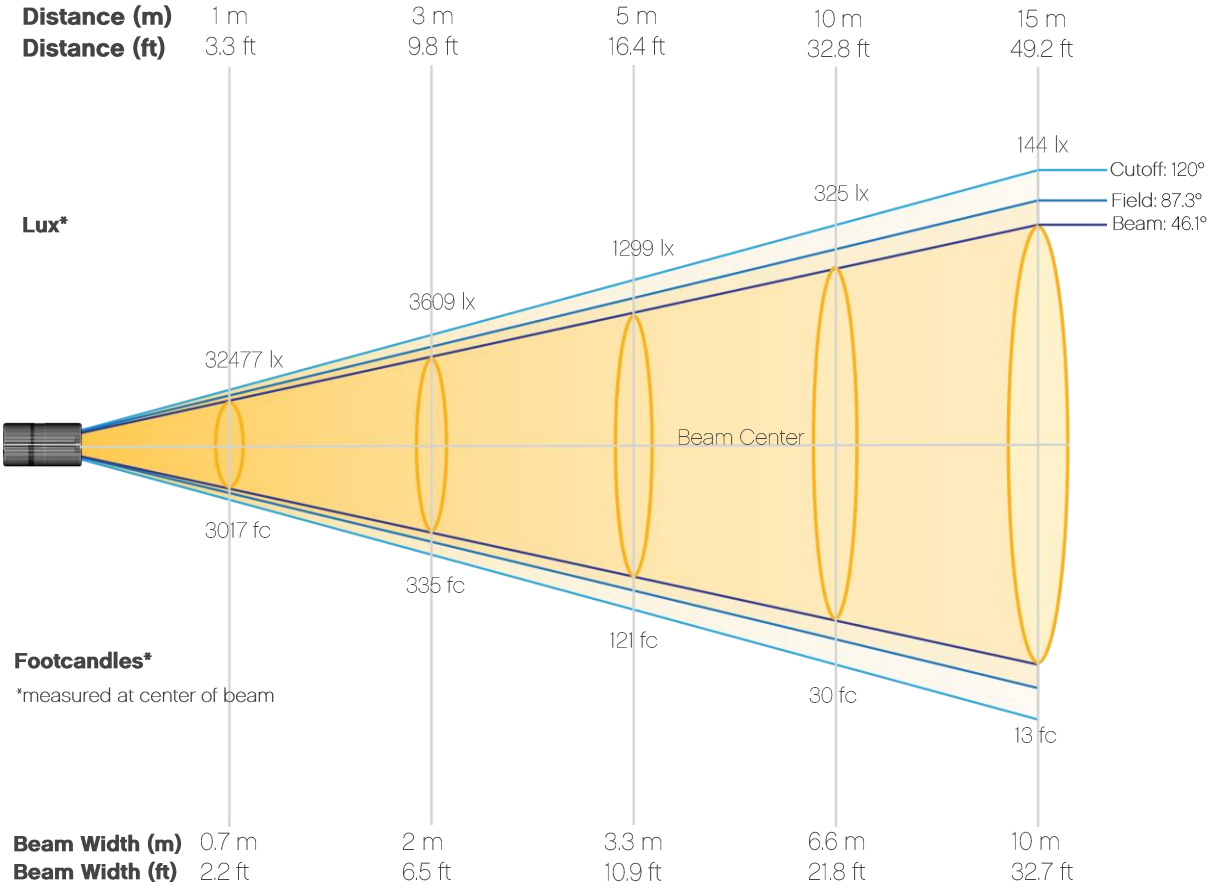
CIE 1931



Photometric Report

COLORado Panel Q40: Accessory Optics-w/60-40 Filter-60deg, Full Power

Beam Details



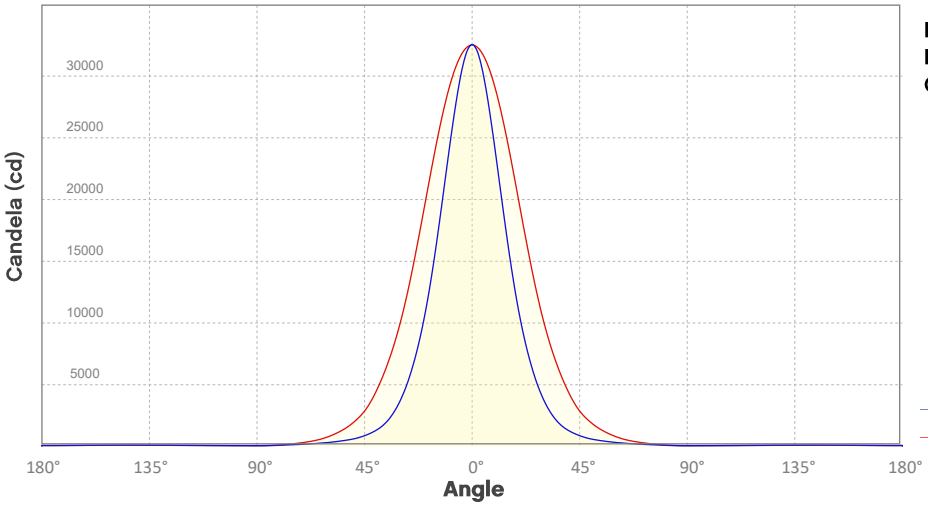
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	32477	8119	3609	2030	1299	902	663	507	401	325
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	268	226	192	166	144	127	112	100	90	81
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	3017	754	335	189	121	84	62	47	37	30
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	25	21	18	15	13	12	10	9	8	8

Photometric Report

COLORado Panel Q40: Accessory Optics-w/60-40 Filter-60deg, Full Power

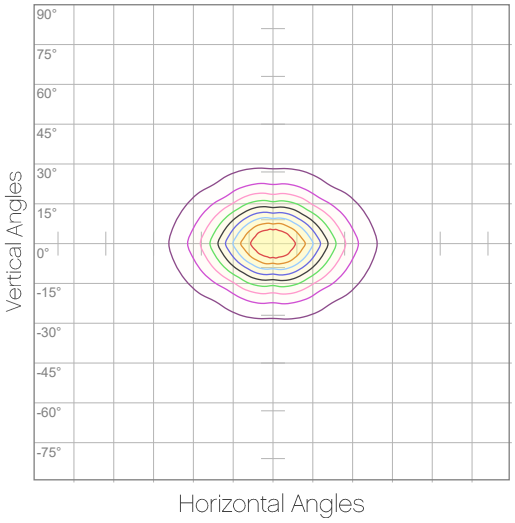
Candela Plot



Beam Angle (50%): 36.7°
Field Angle (10%): 72.2°
Cutoff Angle (3%): 103.9°

Horizontal Distribution
Vertical Distribution

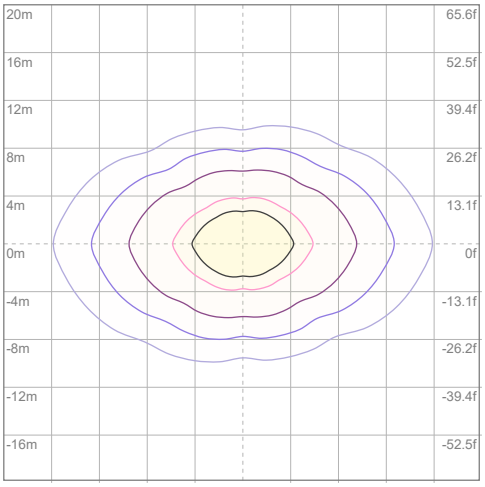
Polar Diagrams



iso-candela Diagram

10%	3248 cd
20%	6495 cd
30%	9743 cd
40%	12991 cd
50%	16238 cd
60%	19486 cd
70%	22734 cd
80%	25981 cd
90%	29229 cd

Conditions:
Number of c-planes: 8
Candela at center: 32477 cd



iso-illuminance Diagram

3%	9.74 lx
5%	16.2 lx
10%	32.5 lx
30%	97.4 lx
50%	162 lx

Conditions:
Number of c-planes: 8
Lux at center: 325 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

COLORado Panel Q40: Accessory Optics-w/60-40 Filter-40deg, Full Power

Report Summary

Output

Total Lumens: 16311 lm
Peak Intensity: 35207 cd
Illuminance @ 5m: 1406 lux
Fixture Efficacy: 28 lm/W

Optical

Horizontal Beam Angle (50%): 35.5°
Vertical Beam Angle (50%): 27.1°
Horizontal Field Angle (10%): 72.1°
Vertical Field Angle (10%): 59.4°
Horizontal Cutoff Angle (3%): 108.7°
Vertical Cutoff Angle (3%): 93.6°

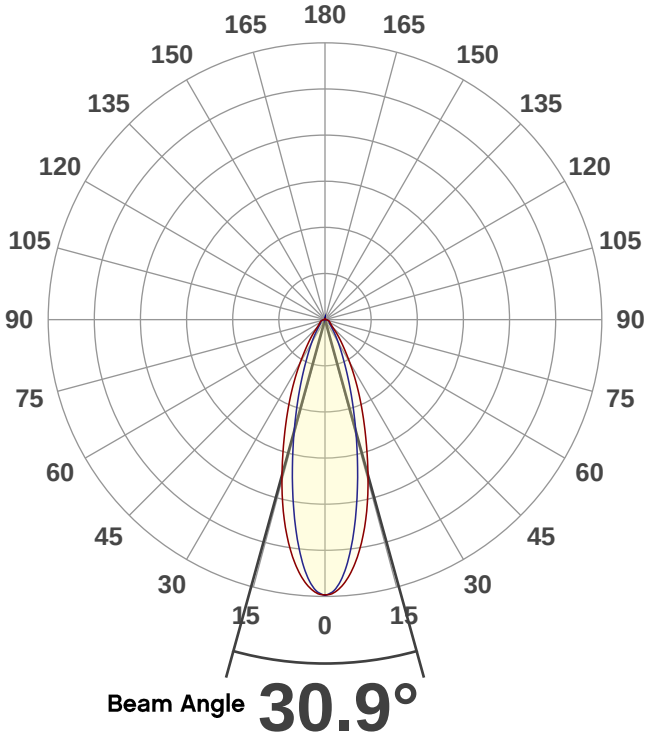
Conditions

AC Supply: 116 V, 60 Hz
Power: 596.72 W
Current: 5.15 A
Power Factor: 0.99

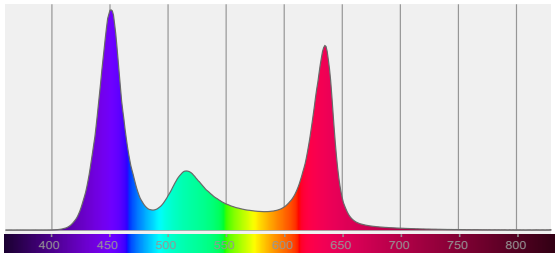
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Sunrise, FL on 2/13/2020 to LM-63-2002 Standards.

Overall Measurement

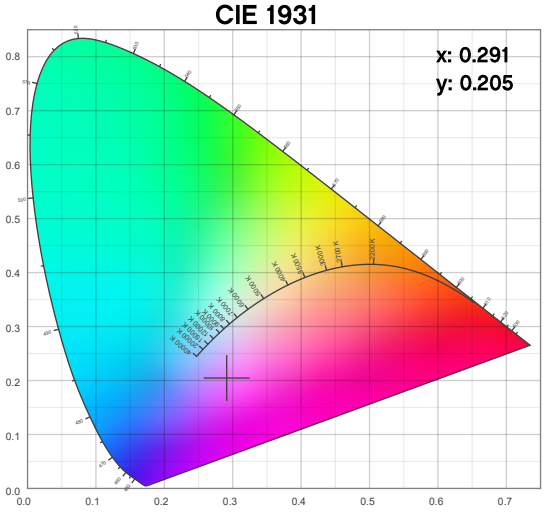
Angular Beam Distribution



Spectral Distribution



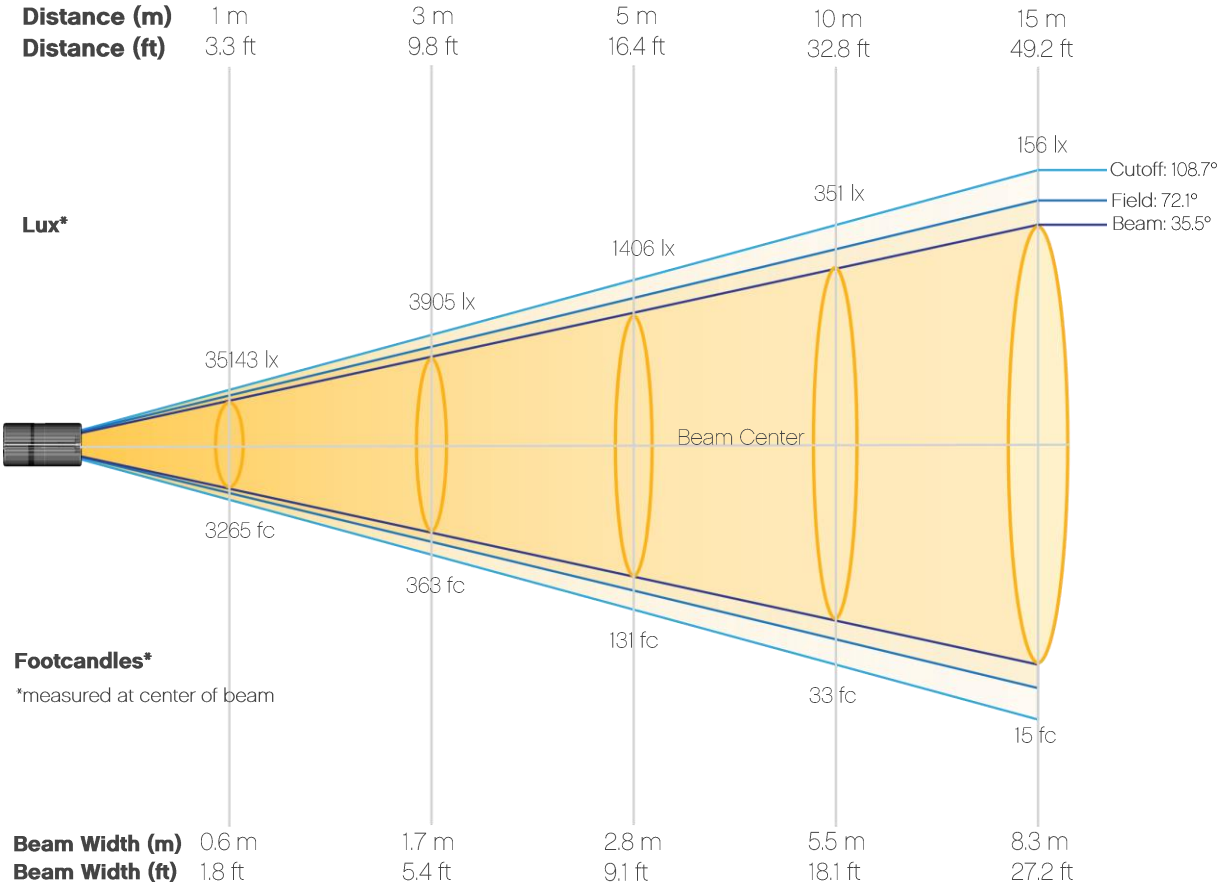
CIE 1931



Photometric Report

COLORado Panel Q40: Accessory Optics-w/60-40 Filter-40deg, Full Power

Beam Details



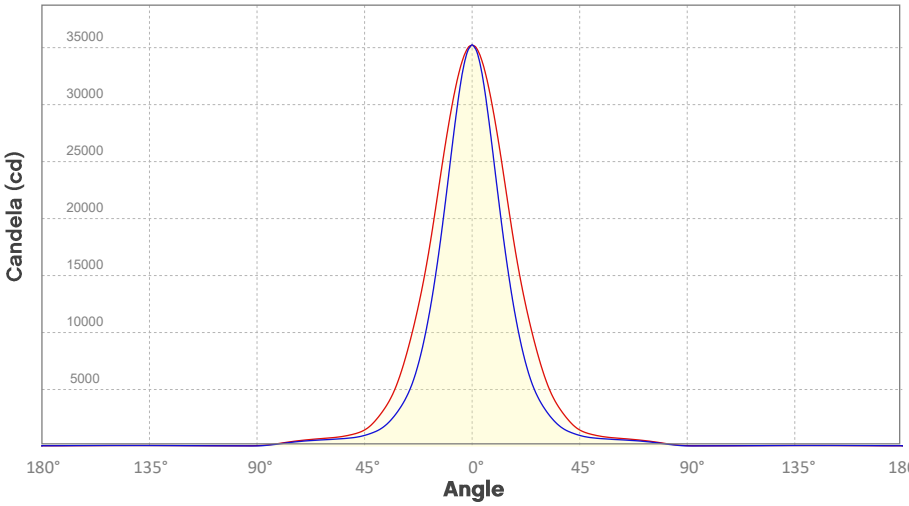
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	35143	8786	3905	2196	1406	976	717	549	434	351
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	290	244	208	179	156	137	122	108	97	88
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	3265	816	363	204	131	91	67	51	40	33
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	27	23	19	17	15	13	11	10	9	8

Photometric Report

COLORado Panel Q40: Accessory Optics-w/60-40 Filter-40deg, Full Power

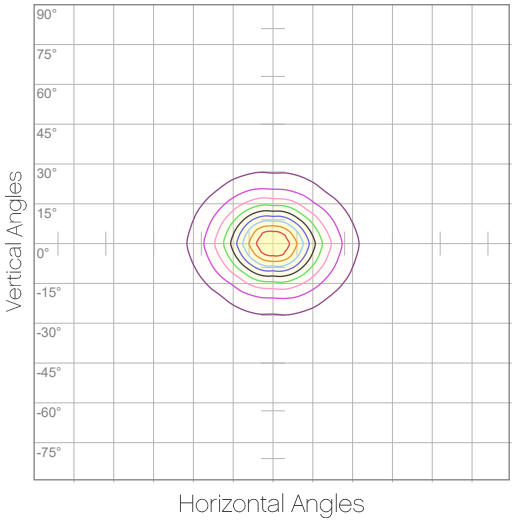
Candela Plot



Beam Angle (50%): 30.9°
Field Angle (10%): 64.6°
Cutoff Angle (3%): 99.7°

Horizontal Distribution
Vertical Distribution

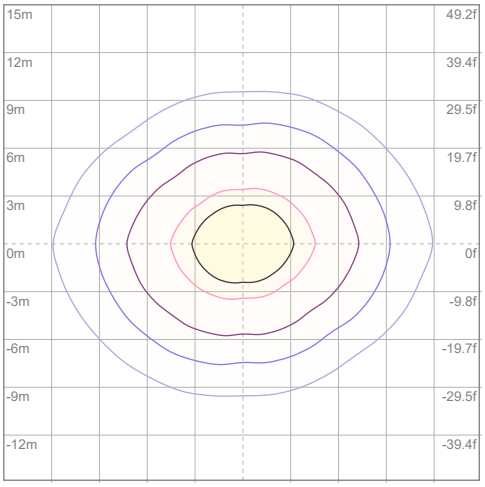
Polar Diagrams



iso-candela Diagram

10%	3514 cd
20%	7029 cd
30%	10543 cd
40%	14057 cd
50%	17571 cd
60%	21086 cd
70%	24600 cd
80%	28114 cd
90%	31629 cd

Conditions:
Number of c-planes: 8
Candela at center: 35143 cd



iso-illuminance Diagram

3%	10.5 lx
5%	17.6 lx
10%	35.1 lx
30%	105 lx
50%	176 lx

Conditions:
Number of c-planes: 8
Lux at center: 351 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.