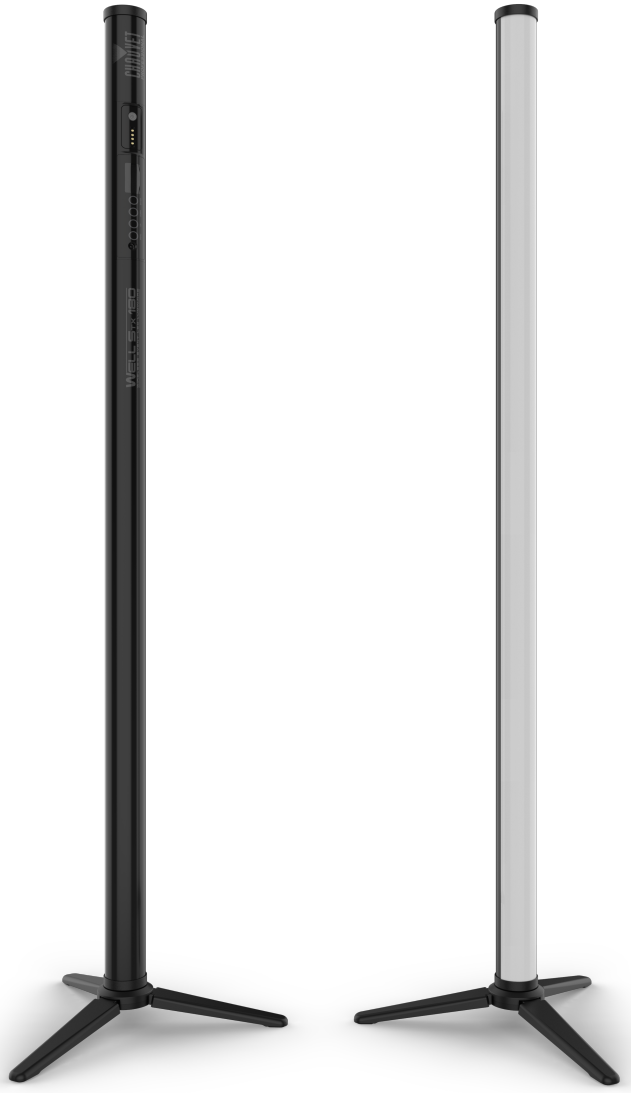
PHOTOMETRICS REPORT

WELL STX 180

WIRELESS EVENT LED LUMINAIRE



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

Well STX 180: Standard Optics – Full Power – 3 HR

Report Summary

Output

Total Lumens: 1378 lm
Peak Intensity: 361 cd
Illuminance @ 5m: 14 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.3°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 233.8°
Horizontal Cutoff Angle (3%): 173.6°
Vertical Cutoff Angle (3%): 281.5°

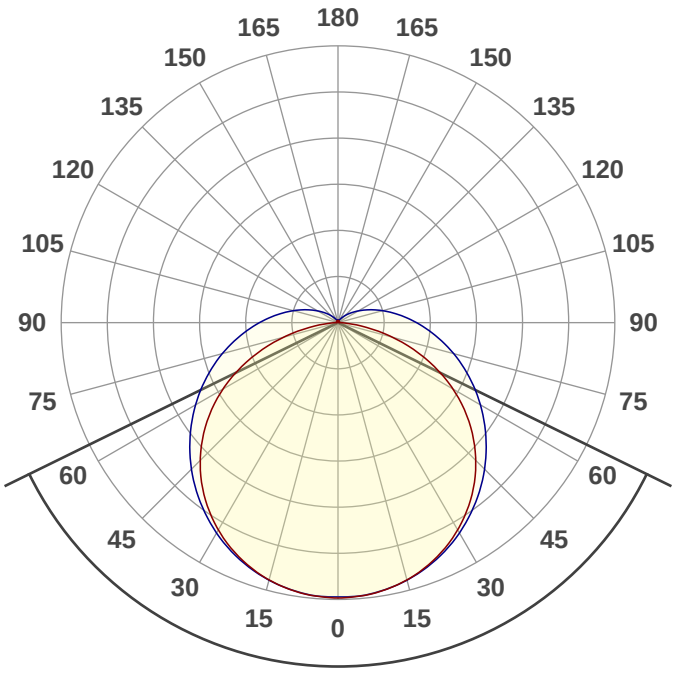
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

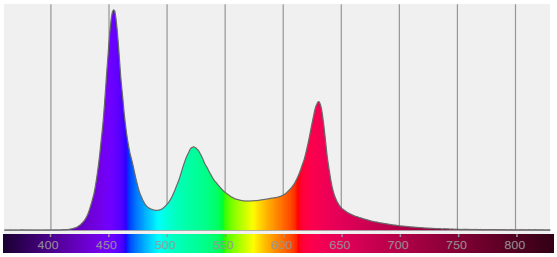
Overall Measurement

Angular Beam Distribution

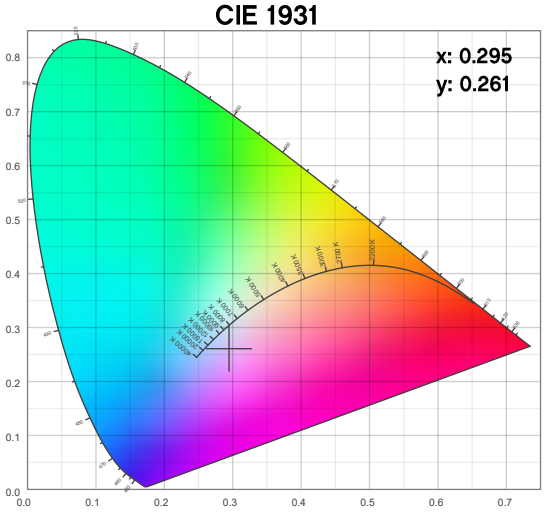


Beam Angle **127.7°**

Spectral Distribution



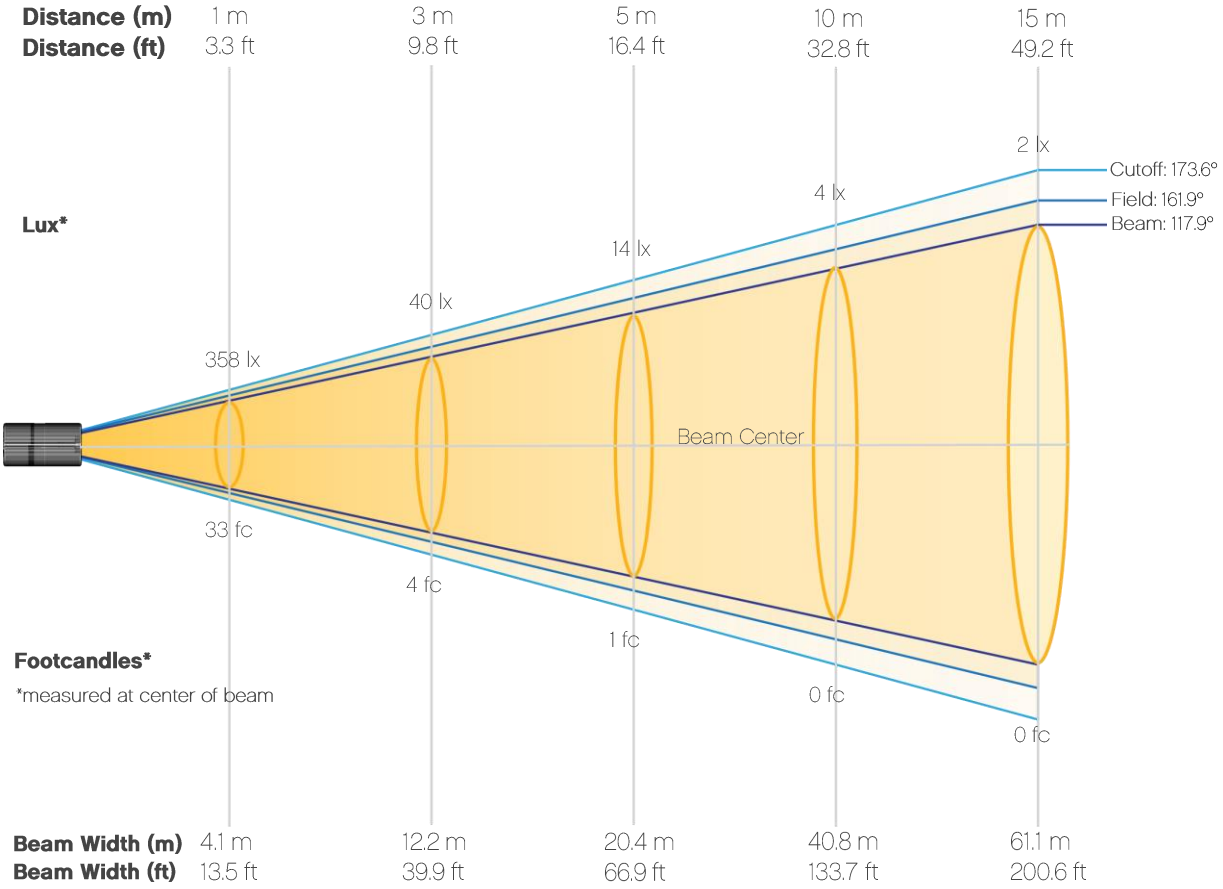
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Full Power – 3 HR

Beam Details



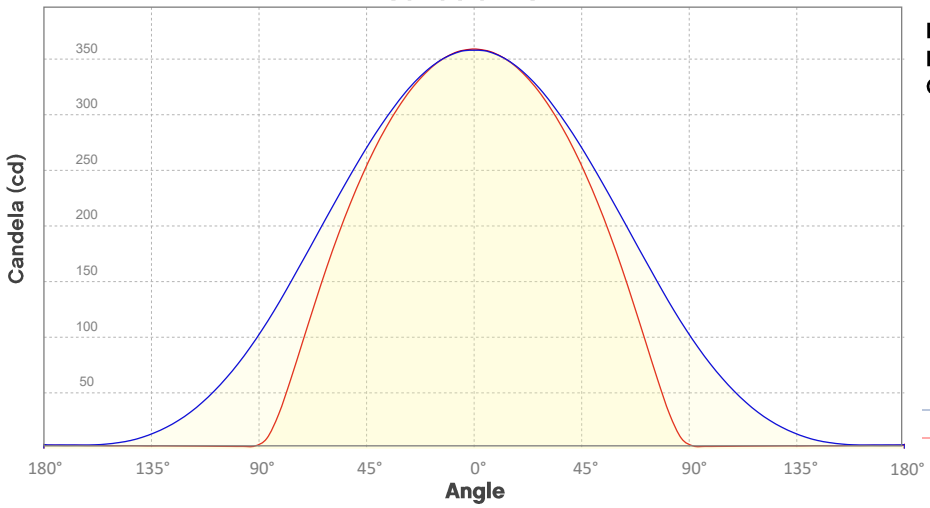
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	358	90	40	22	14	10	7	6	4	4
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	3	2	2	2	2	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	33	8	4	2	1	1	1	1	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

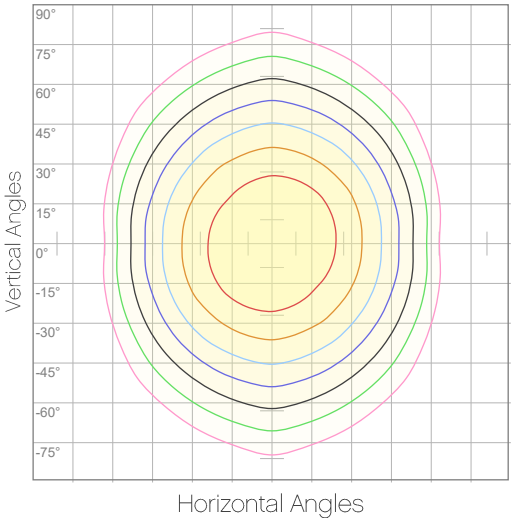
Well STX 180: Standard Optics – Full Power – 3 HR

Candela Plot



Beam Angle (50%): 127.7°
Field Angle (10%): 202.3°
Cutoff Angle (3%): 240.7°

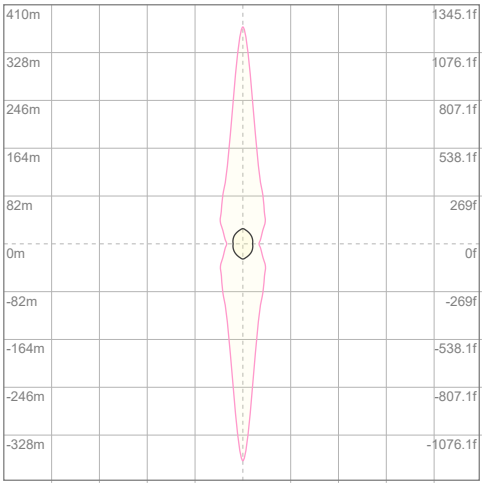
Polar Diagrams



iso-candela Diagram

10%	36 cd
20%	72 cd
30%	107 cd
40%	143 cd
50%	179 cd
60%	215 cd
70%	251 cd
80%	286 cd
90%	322 cd

Conditions:
Number of c-planes: 8
Candela at center: 358 cd



iso-illuminance Diagram

3%	0.107 lx
5%	0.179 lx
10%	0.358 lx
30%	1.07 lx
50%	1.79 lx

Conditions:
Number of c-planes: 8
Lux at center: 3.58 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Full Power – 5 HR

Report Summary

Output

Total Lumens: 727 lm
Peak Intensity: 191 cd
Illuminance @ 5m: 8 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.3°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 233.9°
Horizontal Cutoff Angle (3%): 174.9°
Vertical Cutoff Angle (3%): 281.7°

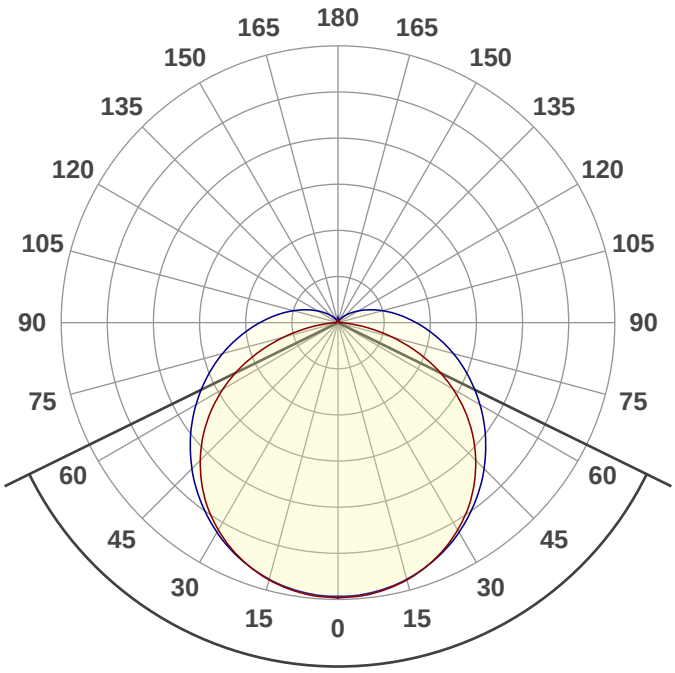
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

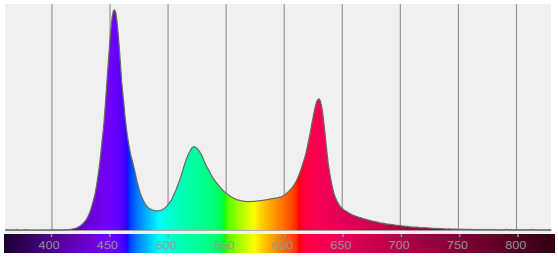
Overall Measurement

Angular Beam Distribution

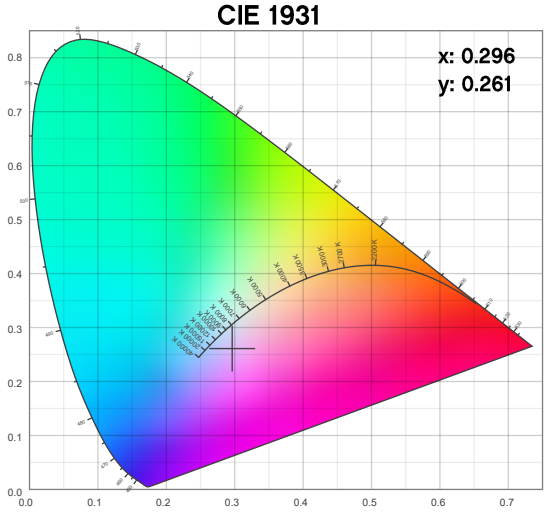


Beam Angle **127.7°**

Spectral Distribution



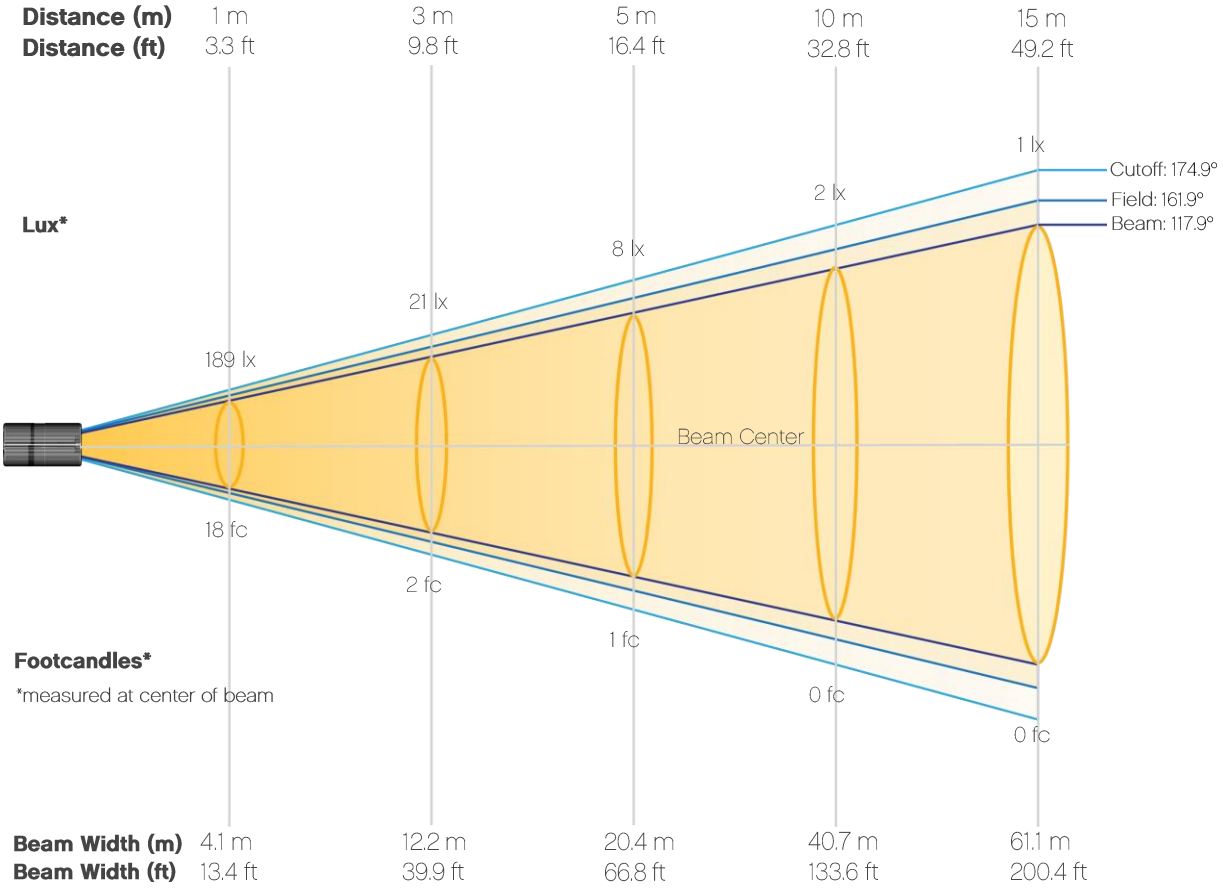
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Full Power – 5 HR

Beam Details



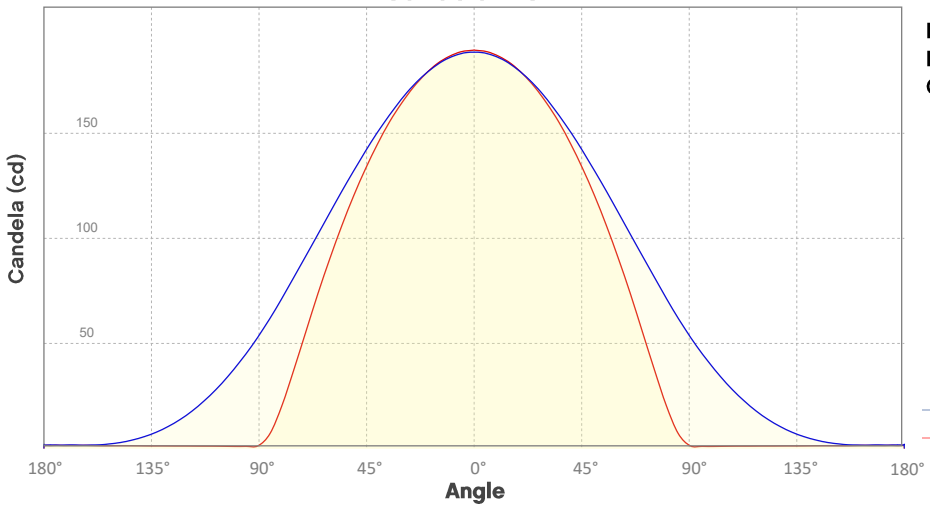
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	189	47	21	12	8	5	4	3	2	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	1	1	1	1	1	1	1	1	0
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	18	4	2	1	1	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

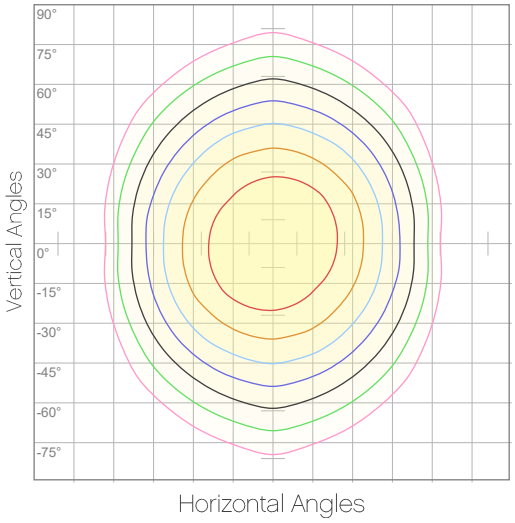
Well STX 180: Standard Optics – Full Power – 5 HR

Candela Plot



Beam Angle (50%): 127.7°
Field Angle (10%): 202.2°
Cutoff Angle (3%): 241°

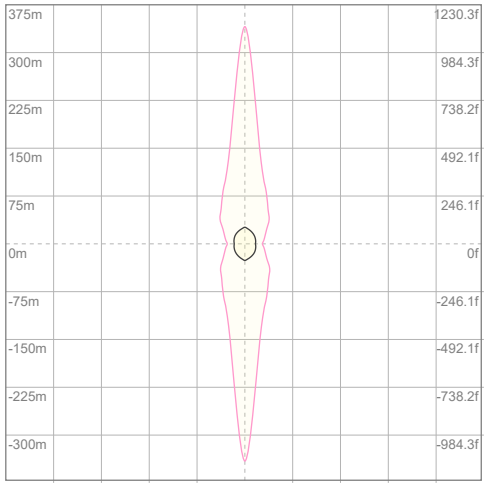
Polar Diagrams



iso-candela Diagram

10%	19 cd
20%	38 cd
30%	57 cd
40%	76 cd
50%	95 cd
60%	113 cd
70%	132 cd
80%	151 cd
90%	170 cd

Conditions:
Number of c-planes: 8
Candela at center: 189 cd



iso-illuminance Diagram

3%	56.7m lx
5%	94.5m lx
10%	0.189 lx
30%	0.567 lx
50%	0.945 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.89 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Full Power – 8 HR

Report Summary

Output

Total Lumens: 467 lm
Peak Intensity: 123 cd
Illuminance @ 5m: 5 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.8°
Vertical Beam Angle (50%): 138.1°
Horizontal Field Angle (10%): 161.8°
Vertical Field Angle (10%): 233.7°
Horizontal Cutoff Angle (3%): 175.1°
Vertical Cutoff Angle (3%): 281.7°

Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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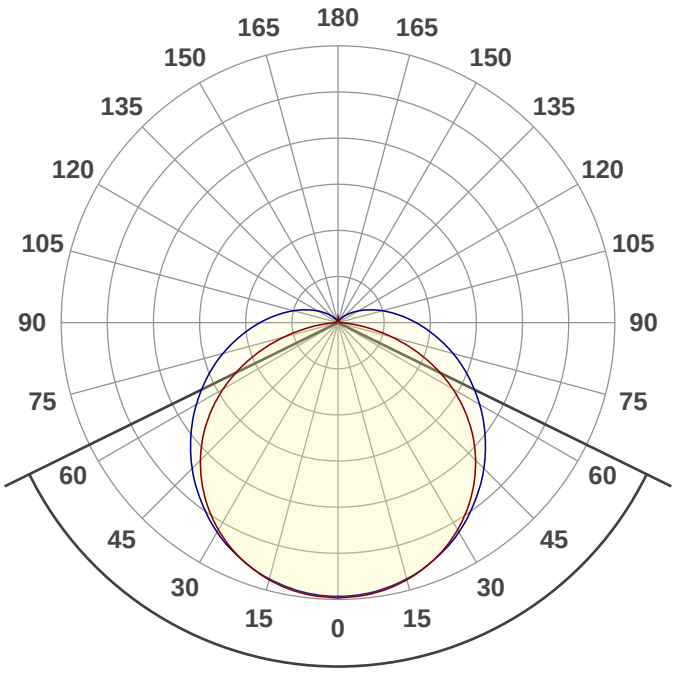
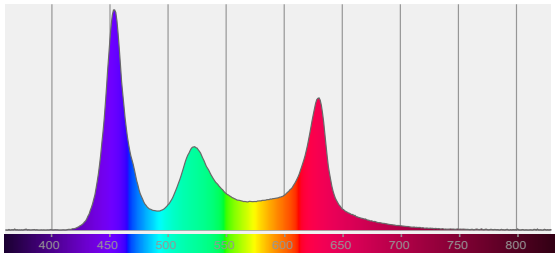
Overall Measurement

Angular Beam Distribution

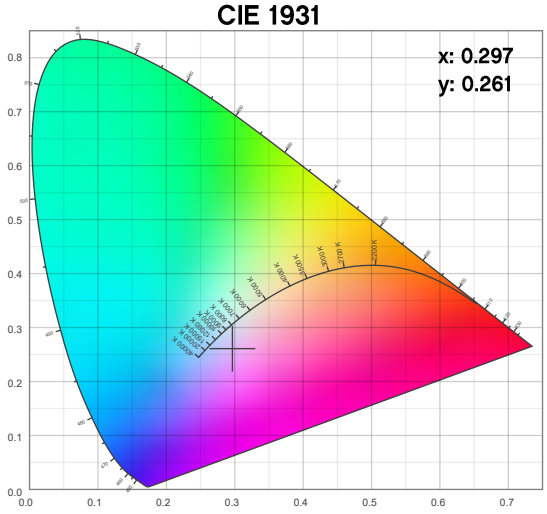


Beam Angle **127.7°**

Spectral Distribution



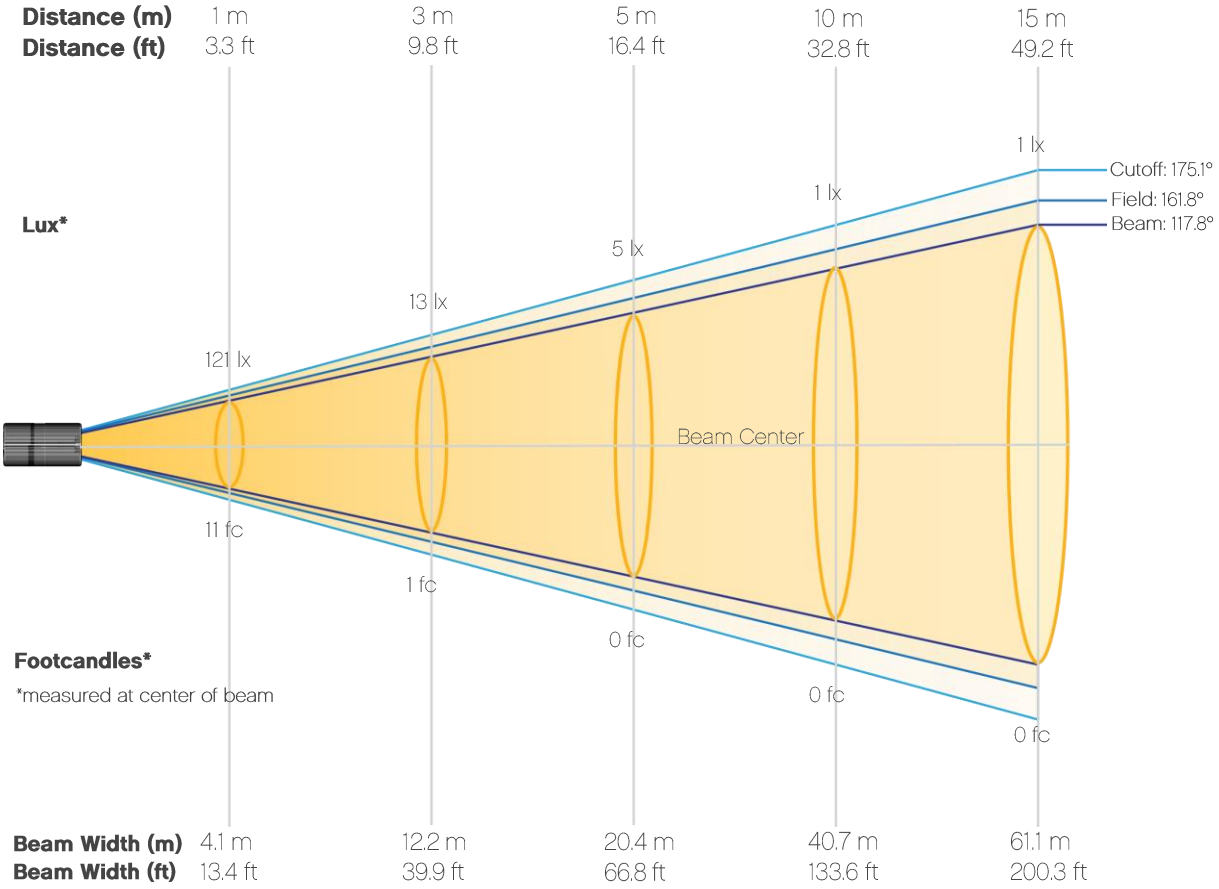
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Full Power – 8 HR

Beam Details



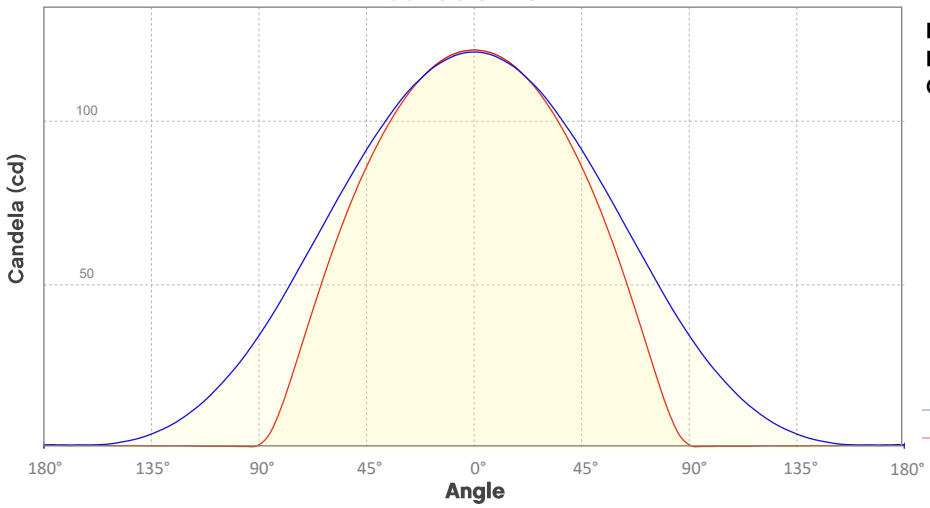
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	121	30	13	8	5	3	2	2	1	1
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	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	11	3	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

Well STX 180: Standard Optics – Full Power – 8 HR

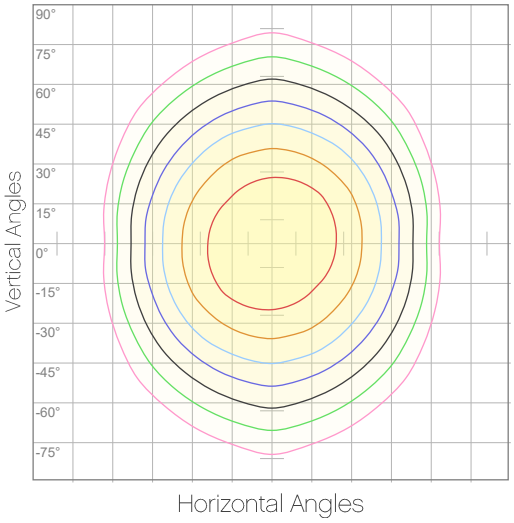
Candela Plot



Beam Angle (50%): 127.7°
Field Angle (10%): 202.2°
Cutoff Angle (3%): 241.3°

Horizontal Distribution
Vertical Distribution

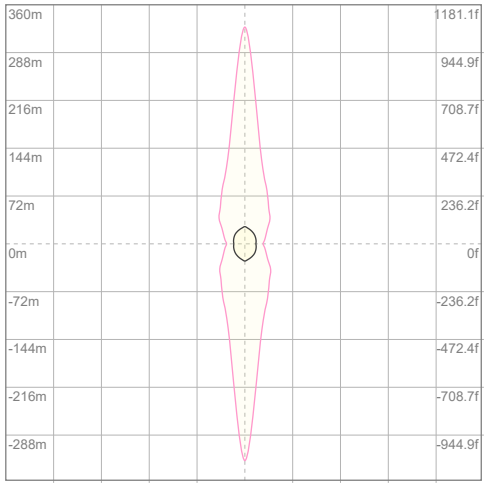
Polar Diagrams



iso-candela Diagram

10%	12 cd
20%	24 cd
30%	36 cd
40%	49 cd
50%	61 cd
60%	73 cd
70%	85 cd
80%	97 cd
90%	109 cd

Conditions:
Number of c-planes: 8
Candela at center: 121 cd



iso-illuminance Diagram

3%	36.4m lx
5%	60.7m lx
10%	0.121 lx
30%	0.364 lx
50%	0.607 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.21 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Full Power – 12 HR

Report Summary

Output

Total Lumens: 277 lm
Peak Intensity: 72.9 cd
Illuminance @ 5m: 3 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.1°
Horizontal Field Angle (10%): 161.8°
Vertical Field Angle (10%): 233.7°
Horizontal Cutoff Angle (3%): 174.8°
Vertical Cutoff Angle (3%): 281.8°

Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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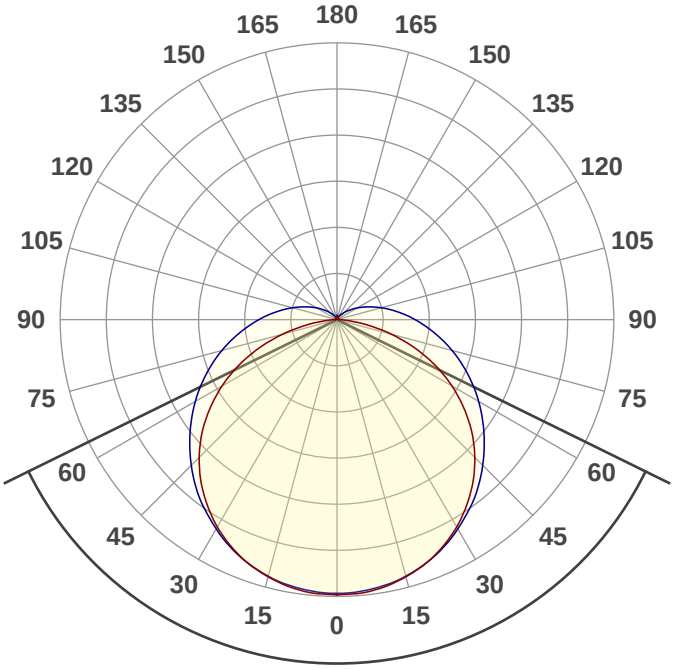
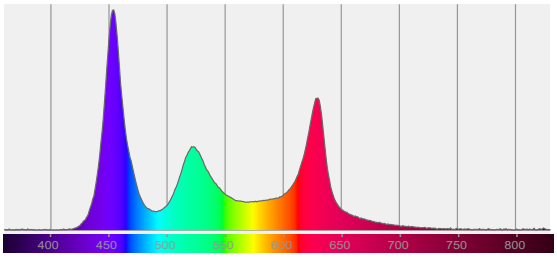
Overall Measurement

Angular Beam Distribution

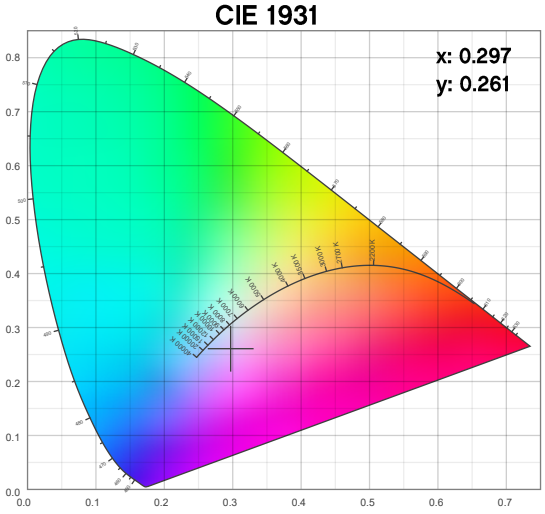


Beam Angle **127.6°**

Spectral Distribution



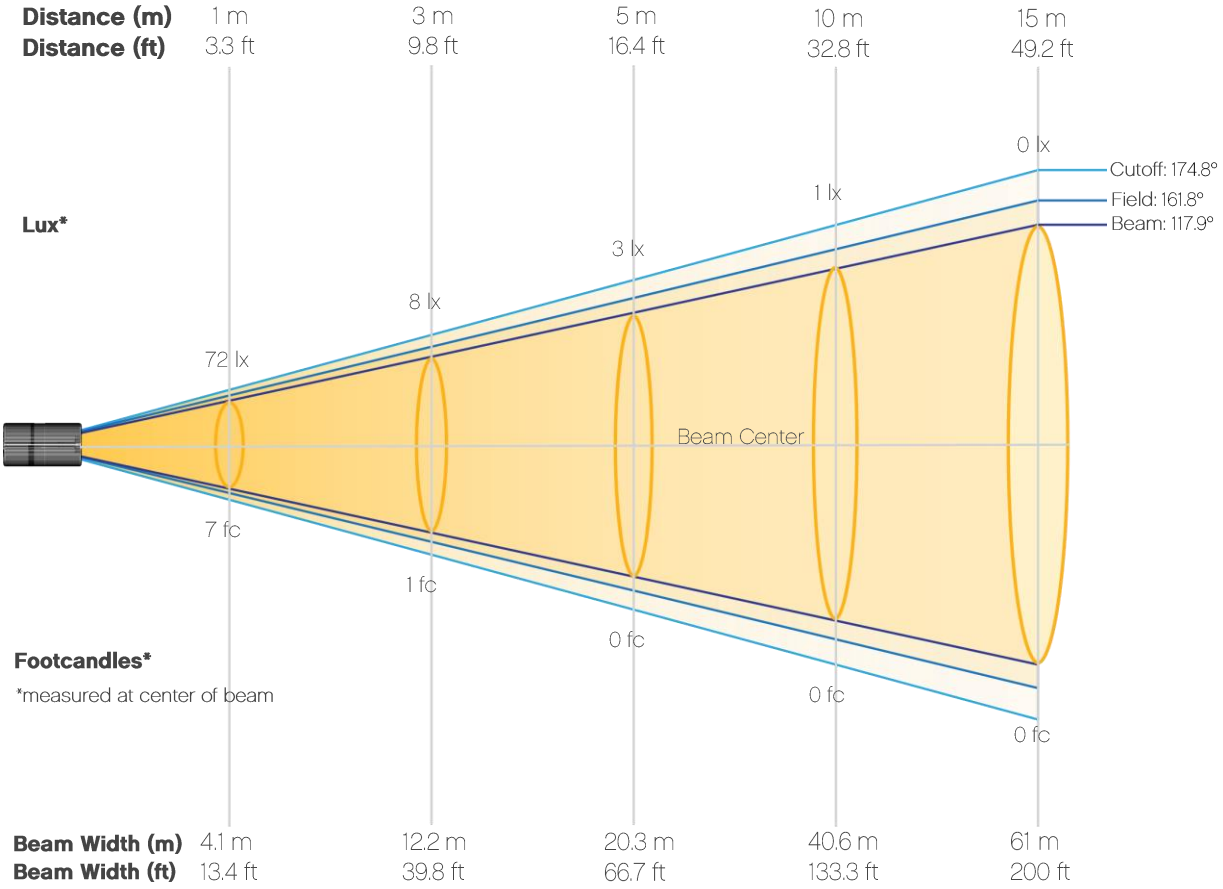
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Full Power – 12 HR

Beam Details



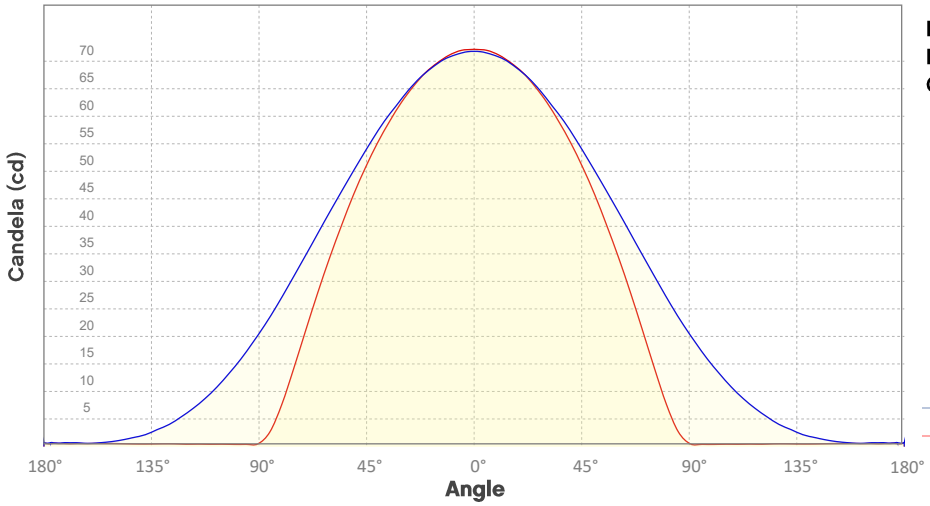
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	72	18	8	5	3	2	1	1	1	1
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	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	7	2	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

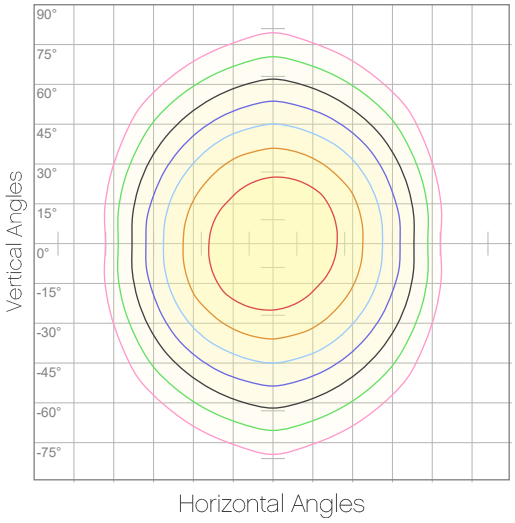
Well STX 180: Standard Optics – Full Power – 12 HR

Candela Plot



Beam Angle (50%): 127.6°
Field Angle (10%): 202.2°
Cutoff Angle (3%): 241.3°

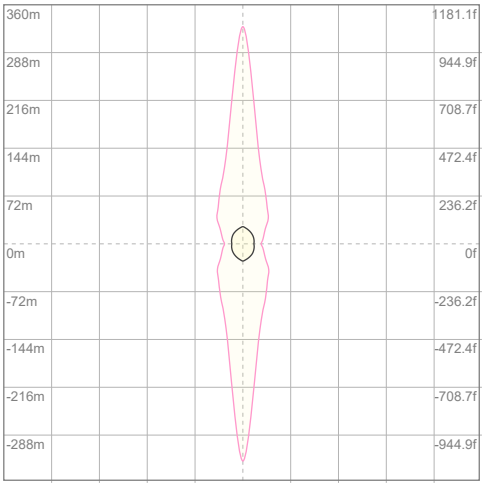
Polar Diagrams



iso-candela Diagram

10%	7 cd
20%	14 cd
30%	22 cd
40%	29 cd
50%	36 cd
60%	43 cd
70%	50 cd
80%	58 cd
90%	65 cd

Conditions:
Number of c-planes: 8
Candela at center: 72 cd



iso-illuminance Diagram

3%	21.6m lx
5%	36.0m lx
10%	72.0m lx
30%	0.216 lx
50%	0.360 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.720 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Red – 3 HR

Report Summary

Output

Total Lumens: 192 lm
Peak Intensity: 49.8 cd
Illuminance @ 5m: 2 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.8°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 234.4°
Horizontal Cutoff Angle (3%): 175.1°
Vertical Cutoff Angle (3%): 282.4°

Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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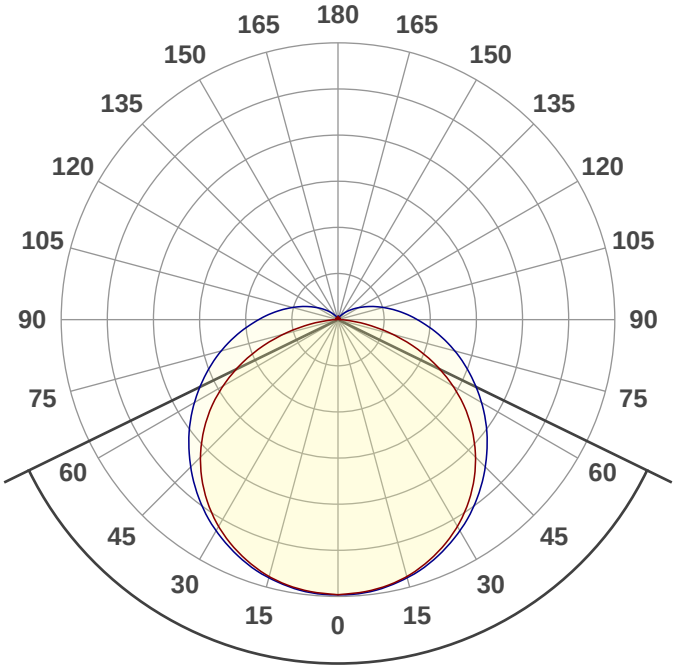
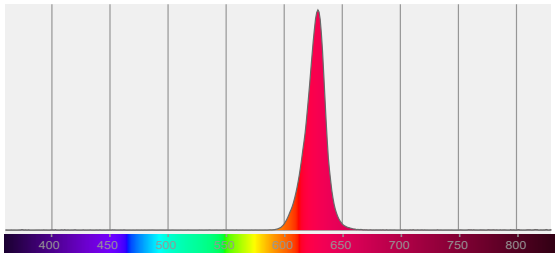
Overall Measurement

Angular Beam Distribution

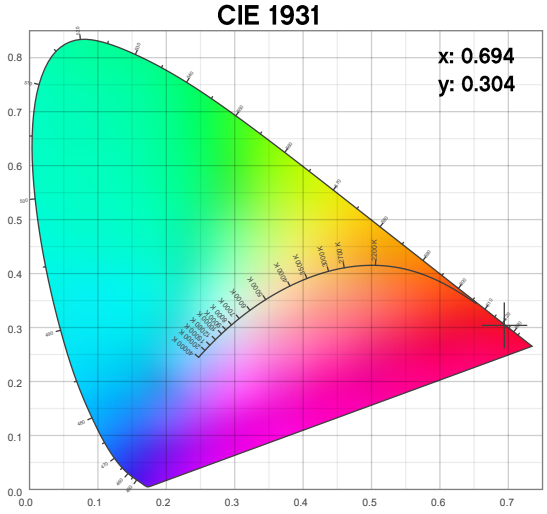


Beam Angle 128°

Spectral Distribution



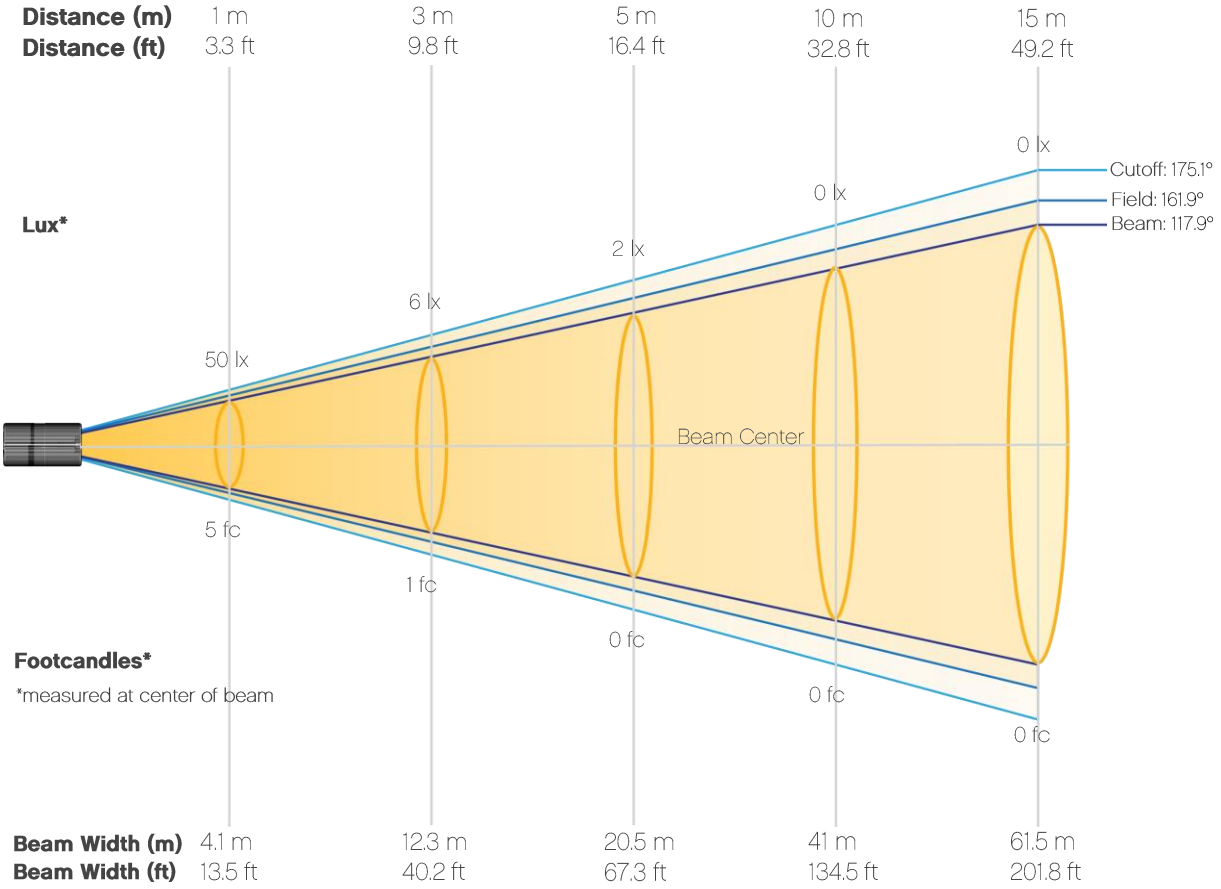
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Red – 3 HR

Beam Details



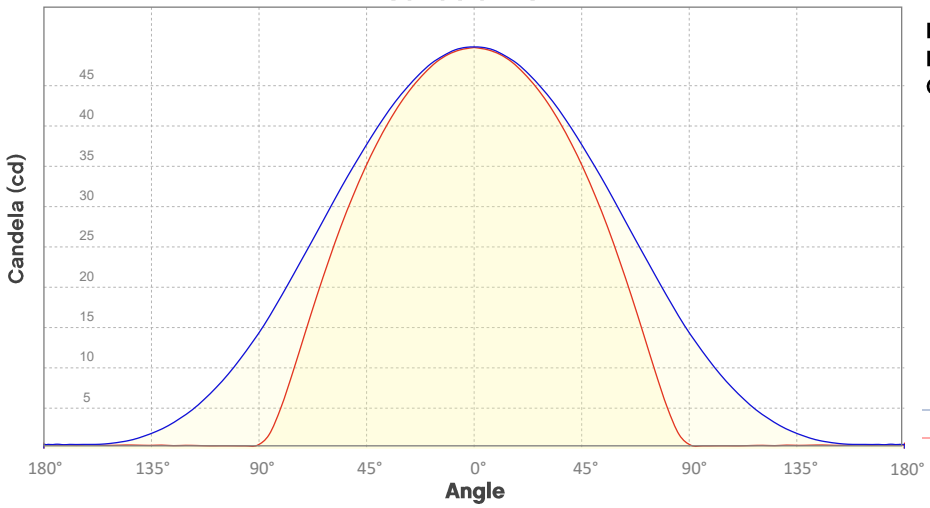
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	50	12	6	3	2	1	1	1	1	0
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

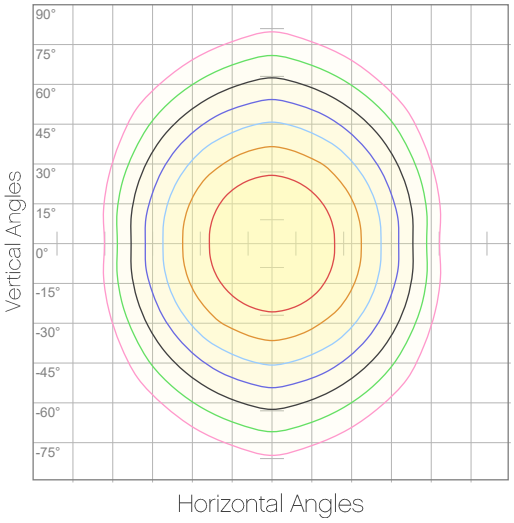
Well STX 180: Standard Optics – Red – 3 HR

Candela Plot



Beam Angle (50%): 128°
Field Angle (10%): 202.7°
Cutoff Angle (3%): 242°

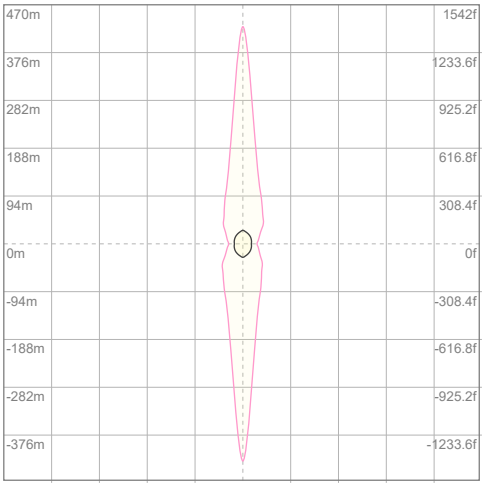
Polar Diagrams



iso-candela Diagram

10%	5 cd
20%	10 cd
30%	15 cd
40%	20 cd
50%	25 cd
60%	30 cd
70%	35 cd
80%	40 cd
90%	45 cd

Conditions:
Number of c-planes: 8
Candela at center: 50 cd



iso-illuminance Diagram

3%	14.9m lx
5%	24.9m lx
10%	49.7m lx
30%	0.149 lx
50%	0.249 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.497 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Red – 5 HR

Report Summary

Output

Total Lumens: 187 lm
Peak Intensity: 48.2 cd
Illuminance @ 5m: 2 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.7°
Horizontal Field Angle (10%): 162.2°
Vertical Field Angle (10%): 235.1°
Horizontal Cutoff Angle (3%): 175.7°
Vertical Cutoff Angle (3%): 284.1°

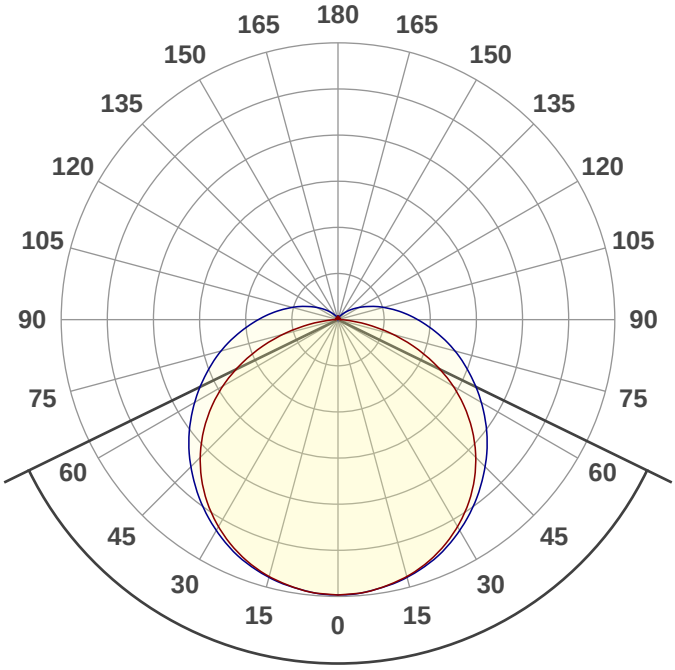
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

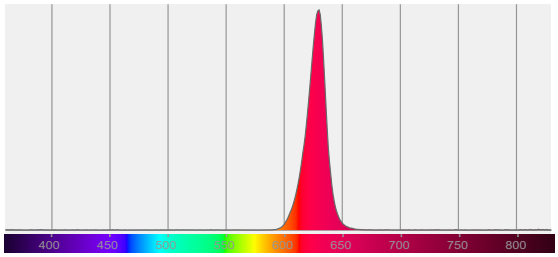
Overall Measurement

Angular Beam Distribution

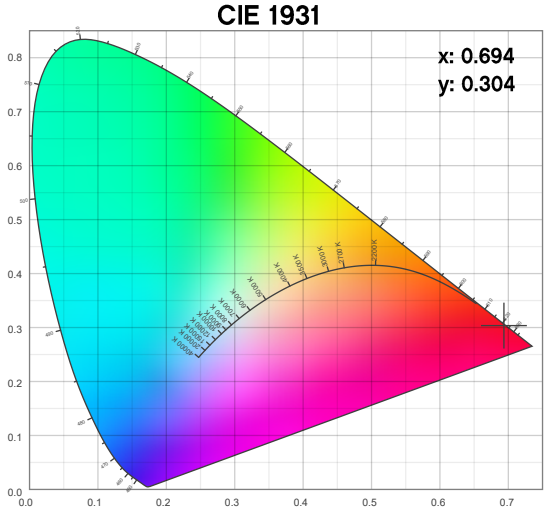


Beam Angle 128°

Spectral Distribution



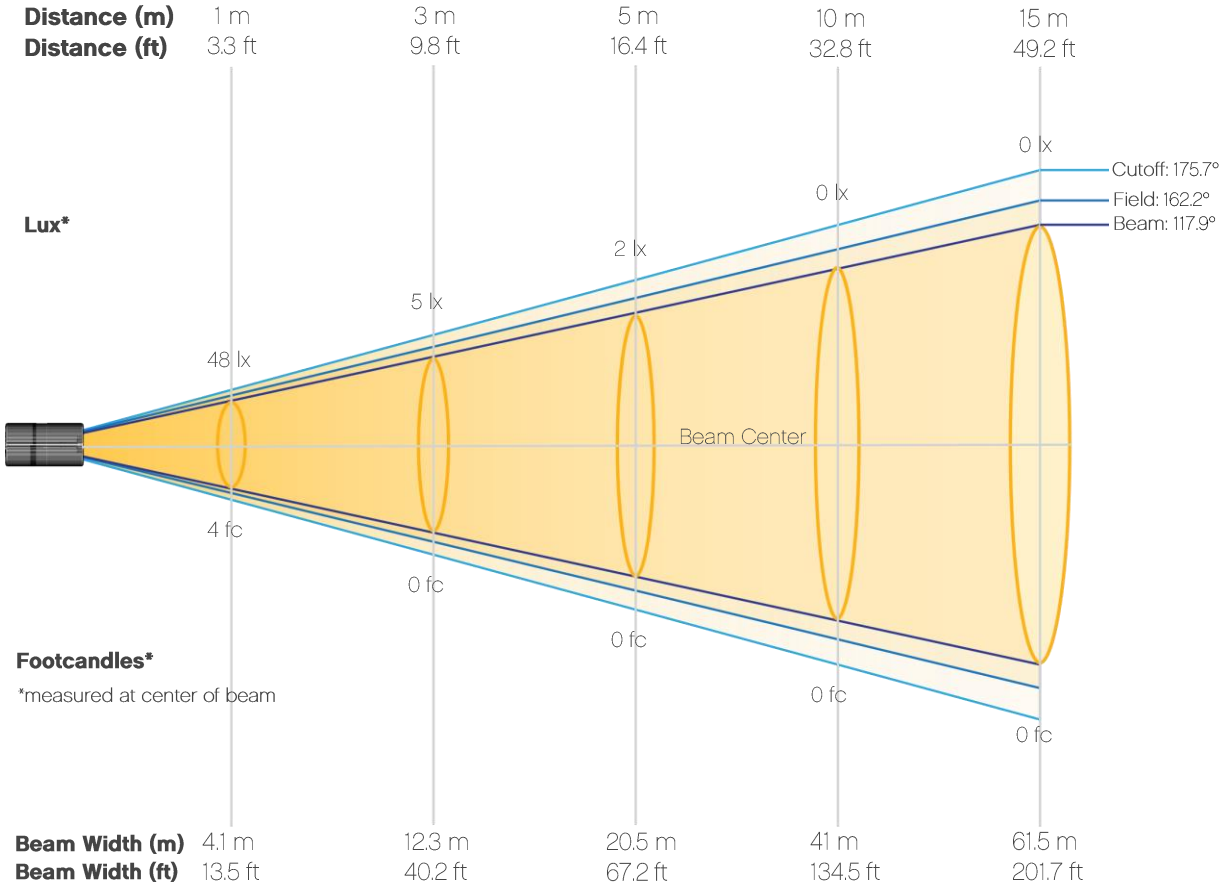
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Red – 5 HR

Beam Details



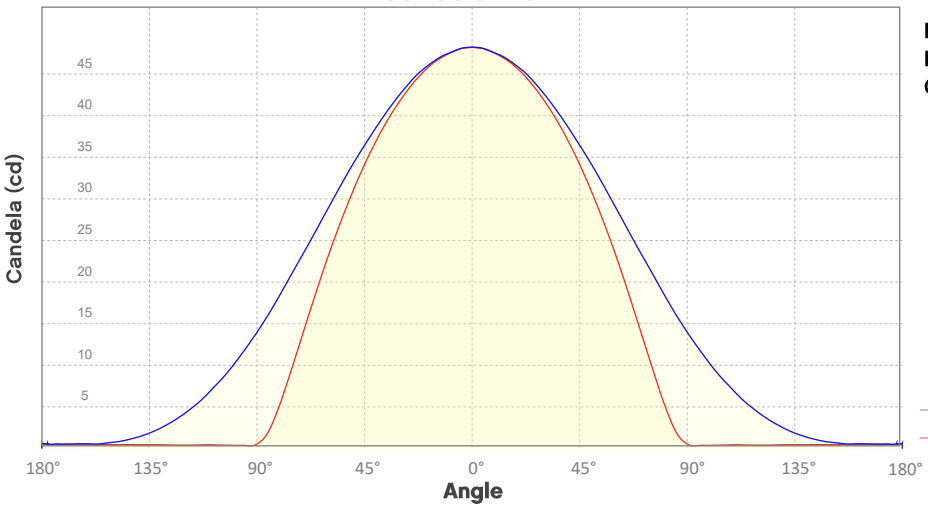
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	48	12	5	3	2	1	1	1	1	0
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	4	1	0	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

Well STX 180: Standard Optics – Red – 5 HR

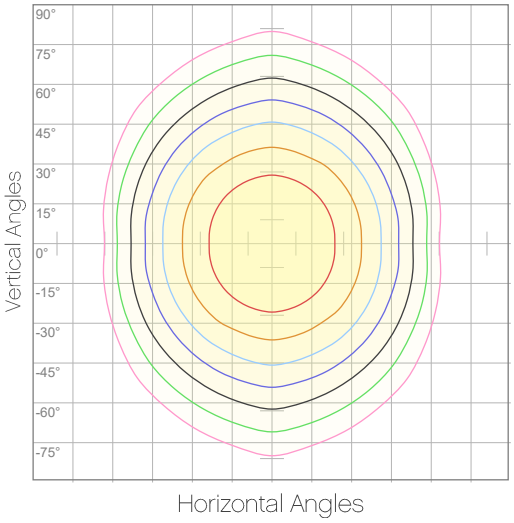
Candela Plot



Beam Angle (50%): 128°
Field Angle (10%): 203.1°
Cutoff Angle (3%): 243°

Horizontal Distribution
Vertical Distribution

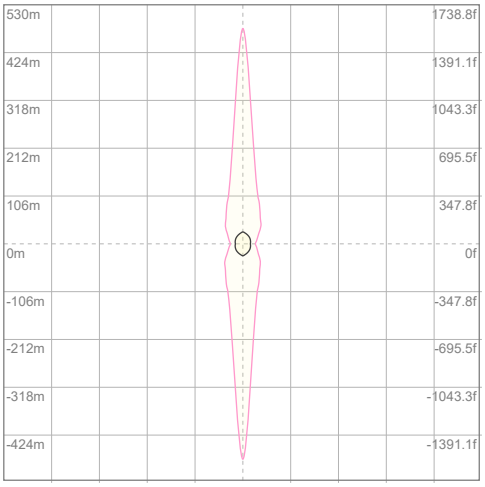
Polar Diagrams



iso-candela Diagram

10%	5 cd
20%	10 cd
30%	14 cd
40%	19 cd
50%	24 cd
60%	29 cd
70%	34 cd
80%	39 cd
90%	43 cd

Conditions:
Number of c-planes: 8
Candela at center: 48 cd



iso-illuminance Diagram

3%	14.5m lx
5%	24.1m lx
10%	48.2m lx
30%	0.145 lx
50%	0.241 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.482 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Red – 8 HR

Report Summary

Output

Total Lumens: 184 lm
Peak Intensity: 47.6 cd
Illuminance @ 5m: 2 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 118°
Vertical Beam Angle (50%): 139.1°
Horizontal Field Angle (10%): 162.1°
Vertical Field Angle (10%): 234.7°
Horizontal Cutoff Angle (3%): 175.6°
Vertical Cutoff Angle (3%): 283°

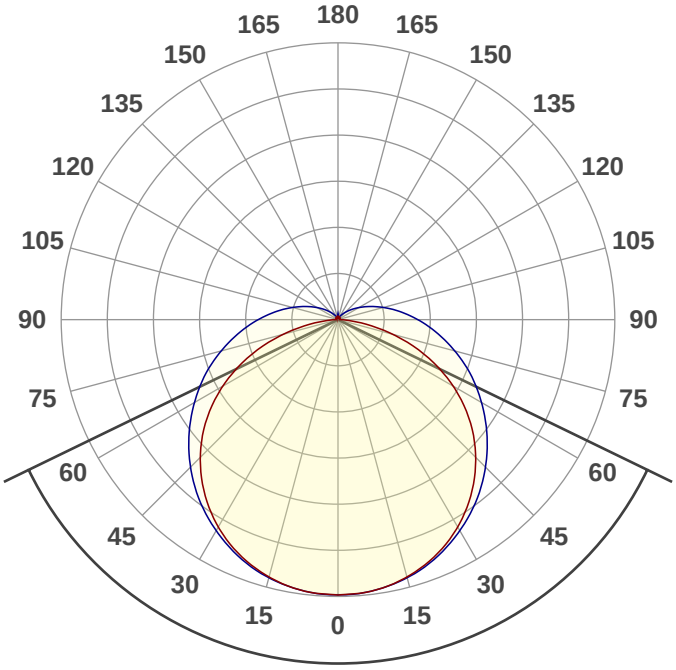
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

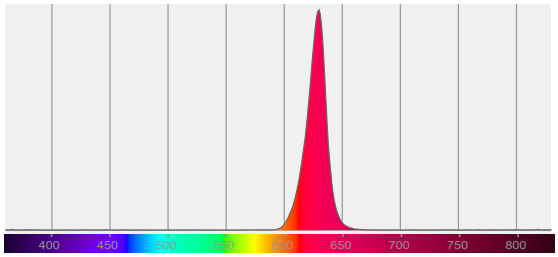
Overall Measurement

Angular Beam Distribution

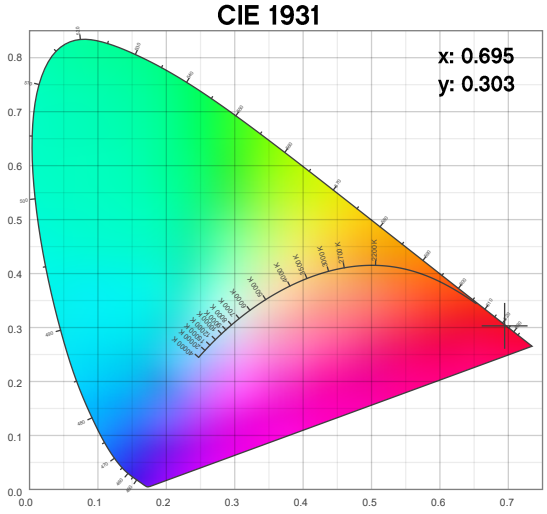


Beam Angle **128.2°**

Spectral Distribution



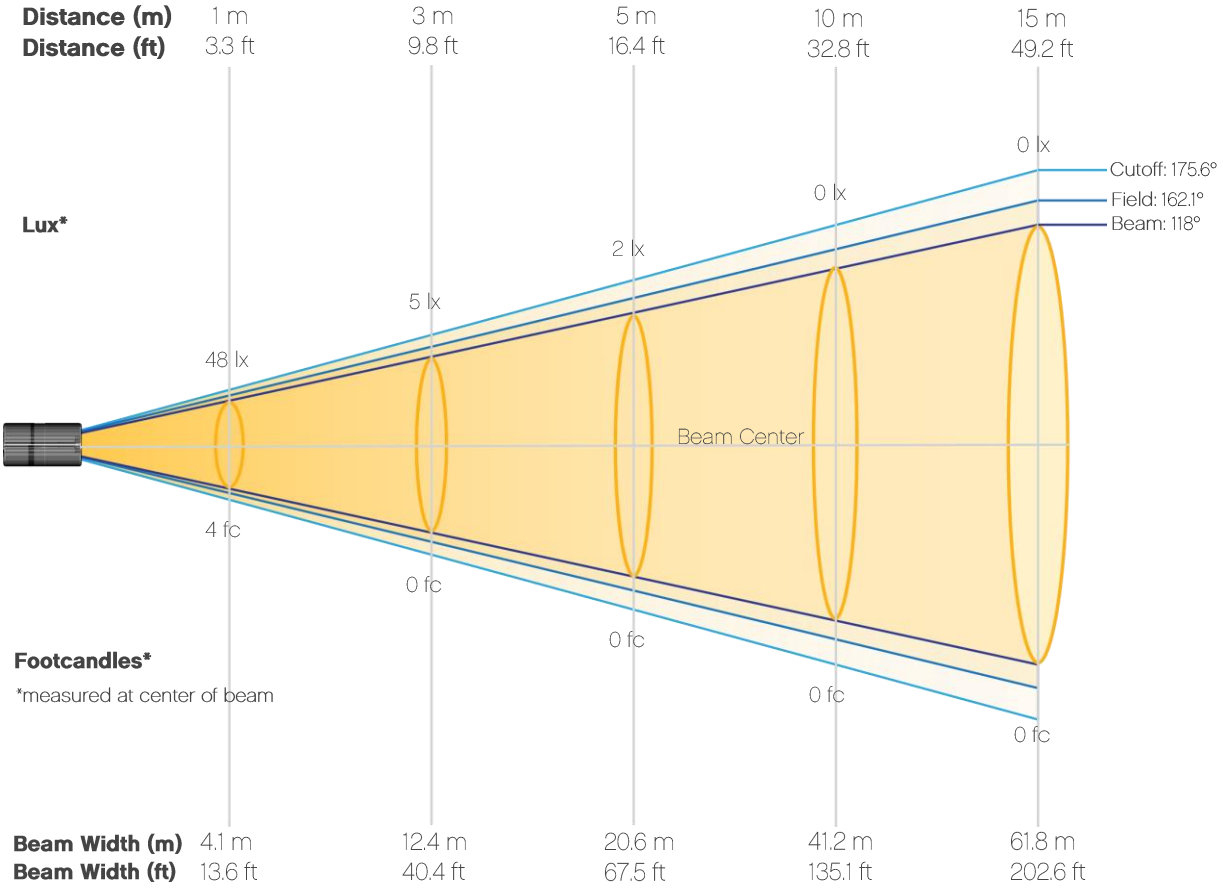
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Red – 8 HR

Beam Details



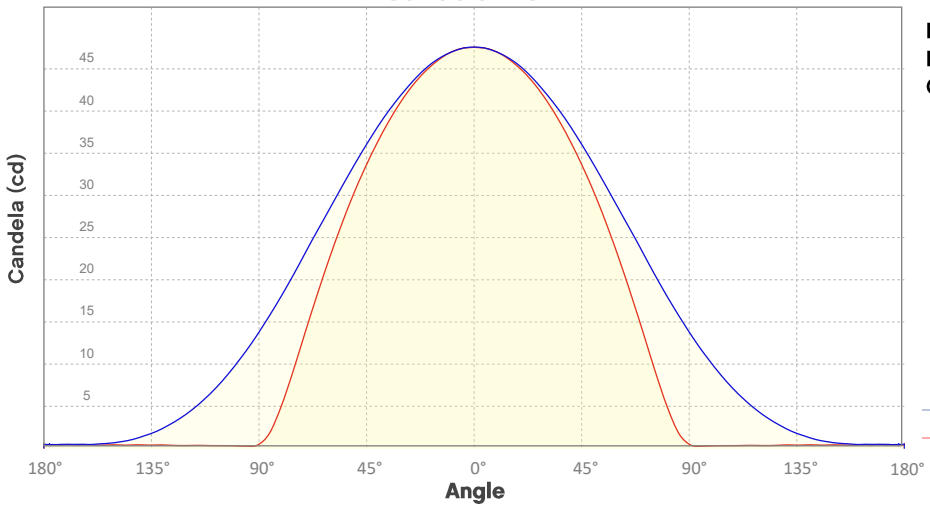
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	48	12	5	3	2	1	1	1	1	0
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	4	1	0	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

Well STX 180: Standard Optics – Red – 8 HR

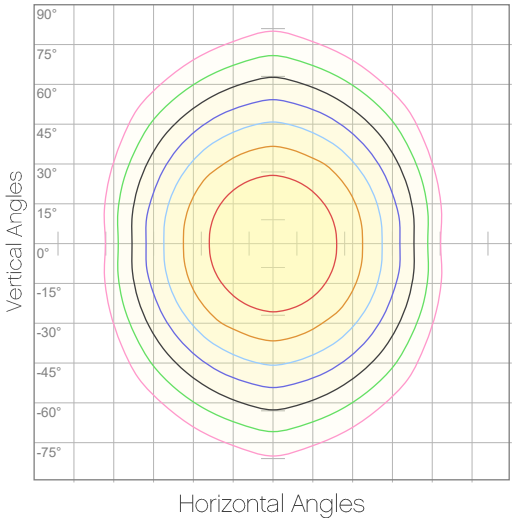
Candela Plot



Beam Angle (50%): 128.2°
Field Angle (10%): 202.9°
Cutoff Angle (3%): 242.6°

Horizontal Distribution
Vertical Distribution

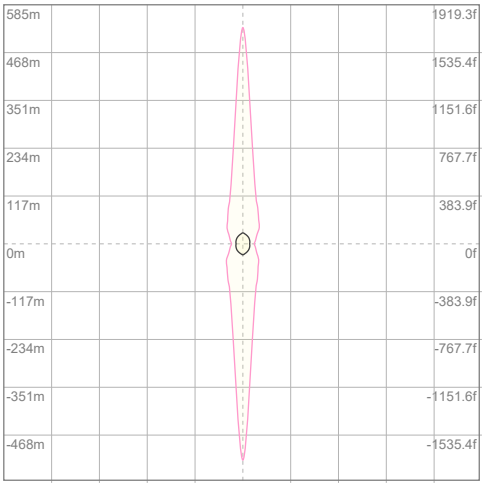
Polar Diagrams



iso-candela Diagram

10%	5 cd
20%	10 cd
30%	14 cd
40%	19 cd
50%	24 cd
60%	29 cd
70%	33 cd
80%	38 cd
90%	43 cd

Conditions:
Number of c-planes: 8
Candela at center: 48 cd



iso-illuminance Diagram

3%	14.3m lx
5%	23.8m lx
10%	47.5m lx
30%	0.143 lx
50%	0.238 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.475 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Red – 12 HR

Report Summary

Output

Total Lumens: 184 lm
Peak Intensity: 47.6 cd
Illuminance @ 5m: 2 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.8°
Horizontal Field Angle (10%): 162.1°
Vertical Field Angle (10%): 234.6°
Horizontal Cutoff Angle (3%): 175.3°
Vertical Cutoff Angle (3%): 283.3°

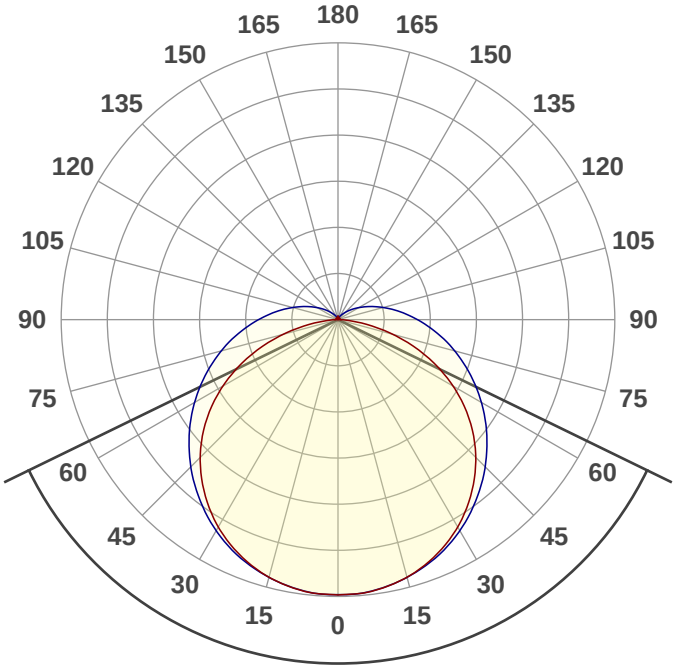
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

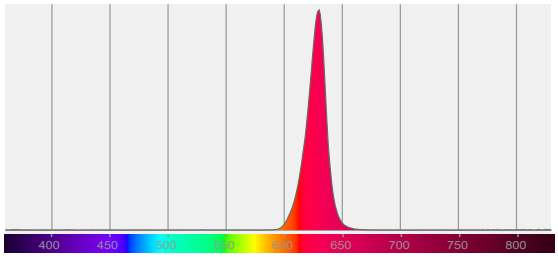
Overall Measurement

Angular Beam Distribution

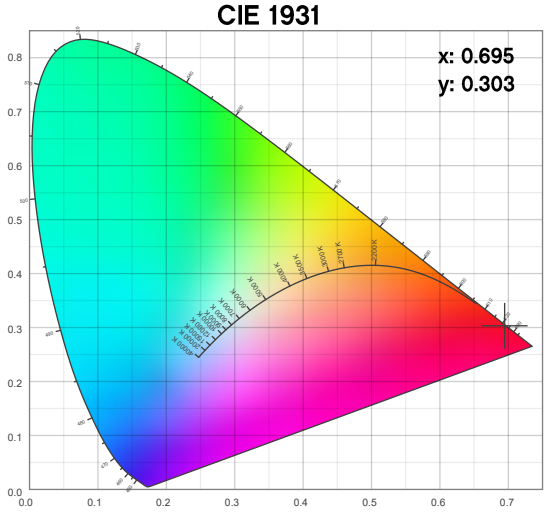


Beam Angle 128°

Spectral Distribution



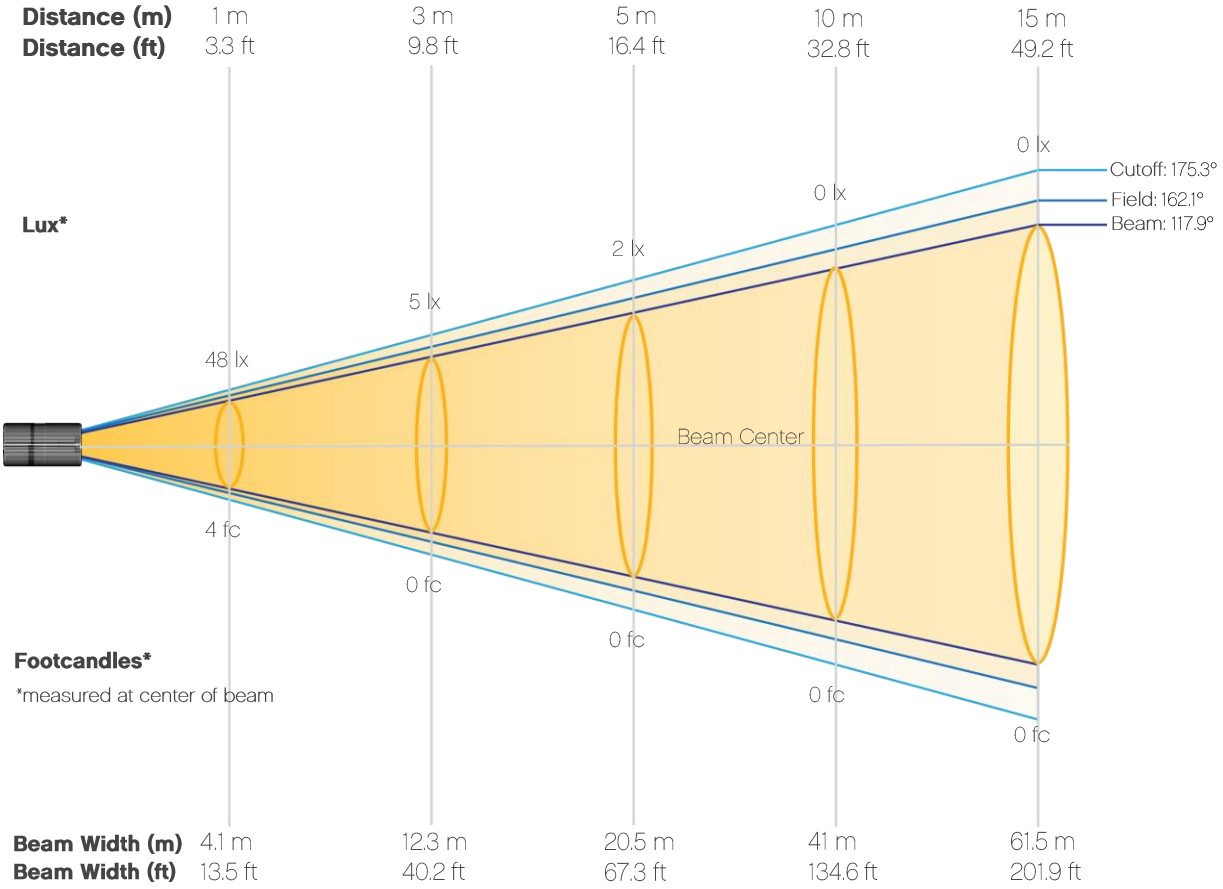
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Red – 12 HR

Beam Details



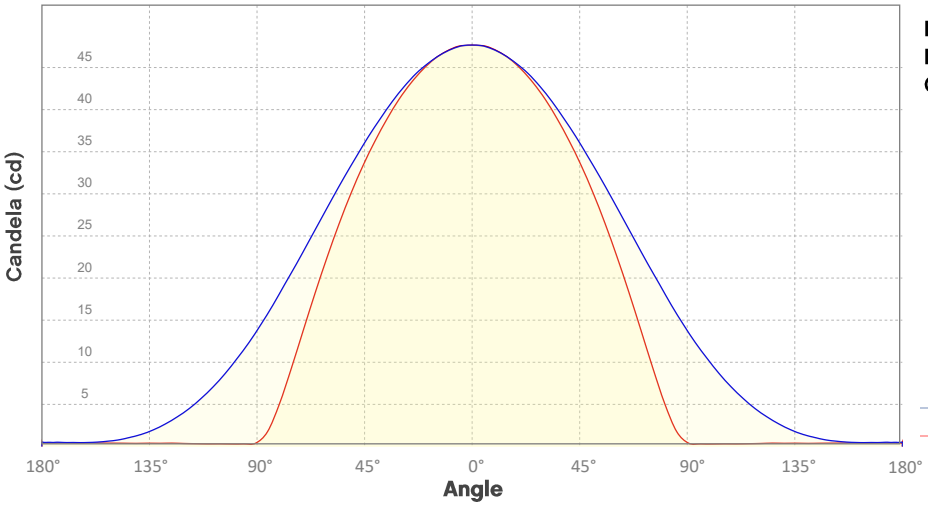
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	48	12	5	3	2	1	1	1	1	0
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	4	1	0	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

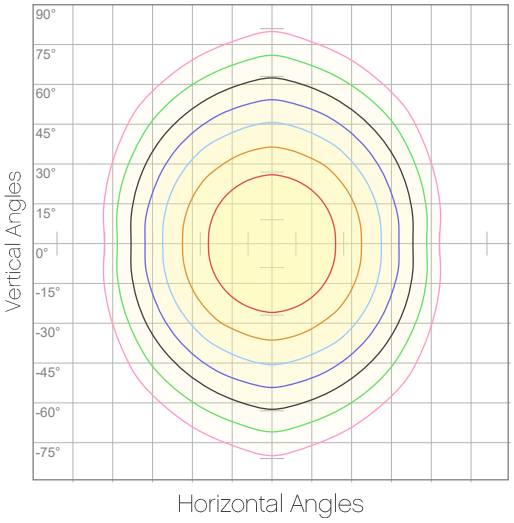
Well STX 180: Standard Optics – Red – 12 HR

Candela Plot



Beam Angle (50%): 128°
Field Angle (10%): 202.8°
Cutoff Angle (3%): 242.1°

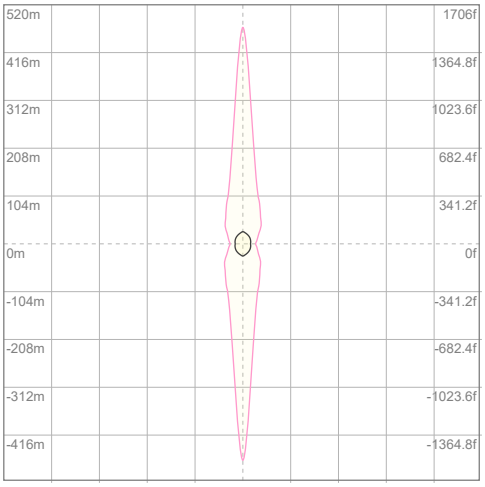
Polar Diagrams



iso-candela Diagram

10%	5 cd
20%	10 cd
30%	14 cd
40%	19 cd
50%	24 cd
60%	29 cd
70%	33 cd
80%	38 cd
90%	43 cd

Conditions:
Number of c-planes: 8
Candela at center: 48 cd



iso-illuminance Diagram

3%	14.3m lx
5%	23.8m lx
10%	47.6m lx
30%	0.143 lx
50%	0.238 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.476 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Green – 3 HR

Report Summary

Output

Total Lumens: 187 lm
Peak Intensity: 48.2 cd
Illuminance @ 5m: 2 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 118.5°
Vertical Beam Angle (50%): 138.9°
Horizontal Field Angle (10%): 162.2°
Vertical Field Angle (10%): 235.7°
Horizontal Cutoff Angle (3%): 175.3°
Vertical Cutoff Angle (3%): 284.4°

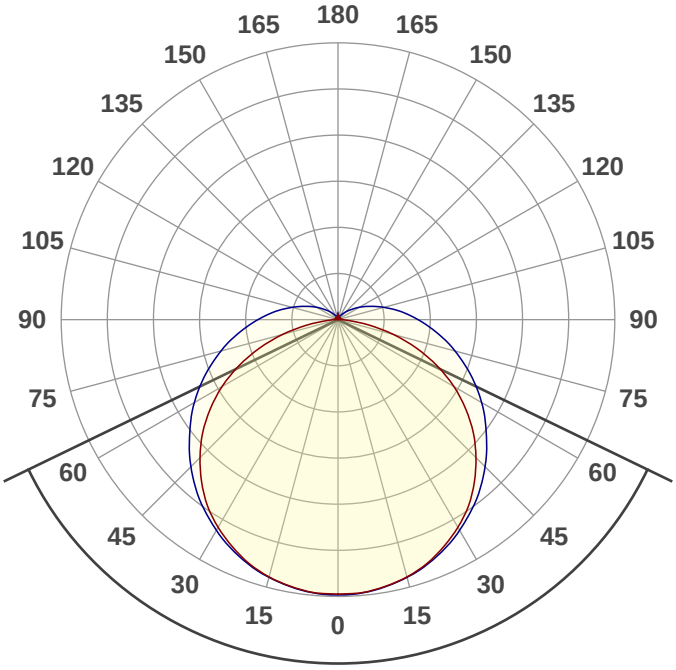
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

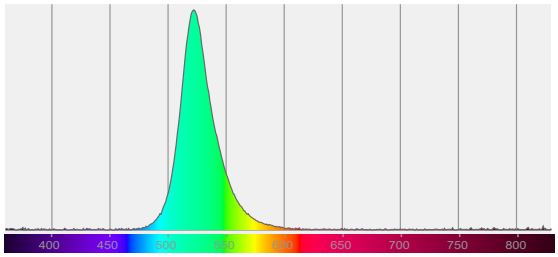
Overall Measurement

Angular Beam Distribution

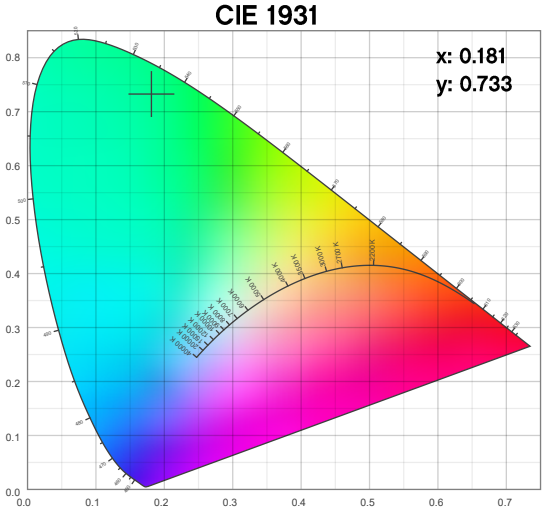


Beam Angle **128.3°**

Spectral Distribution



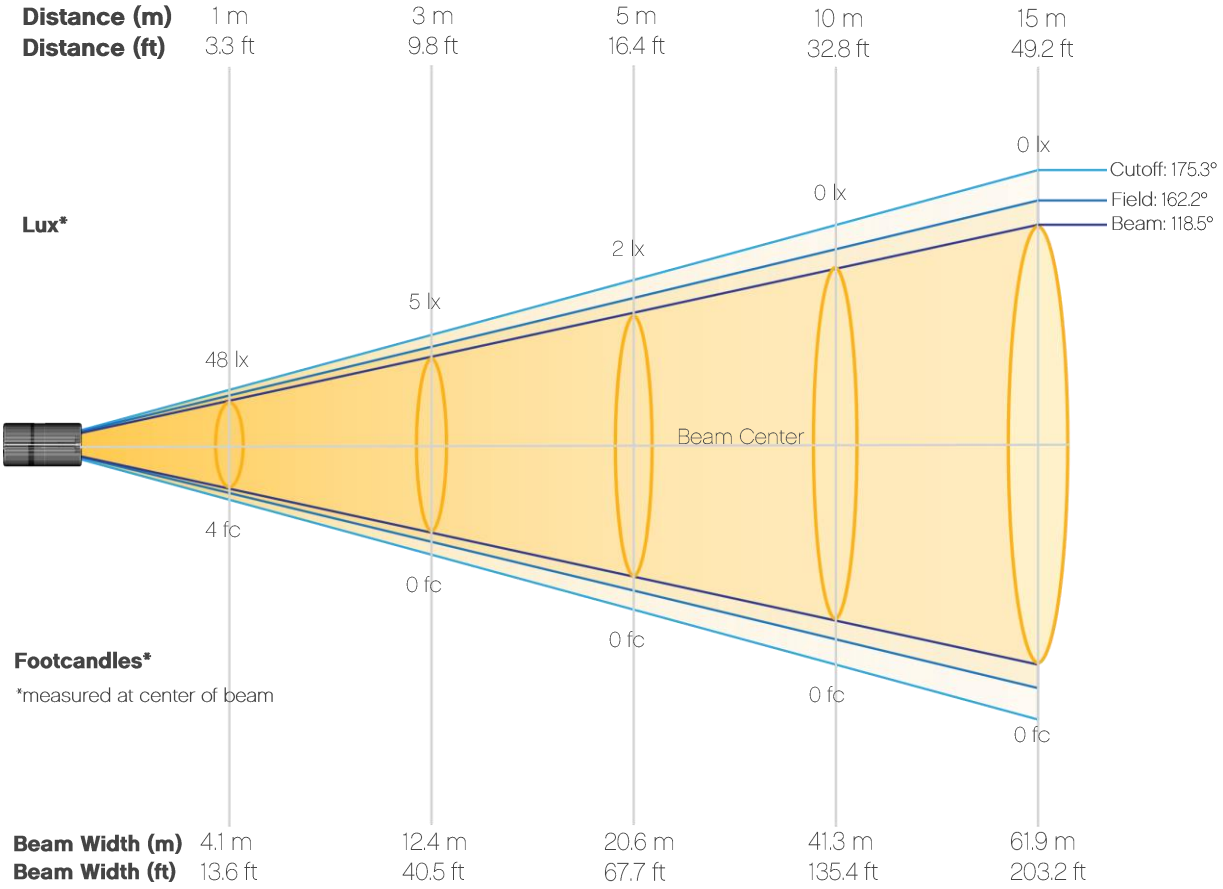
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Green – 3 HR

Beam Details



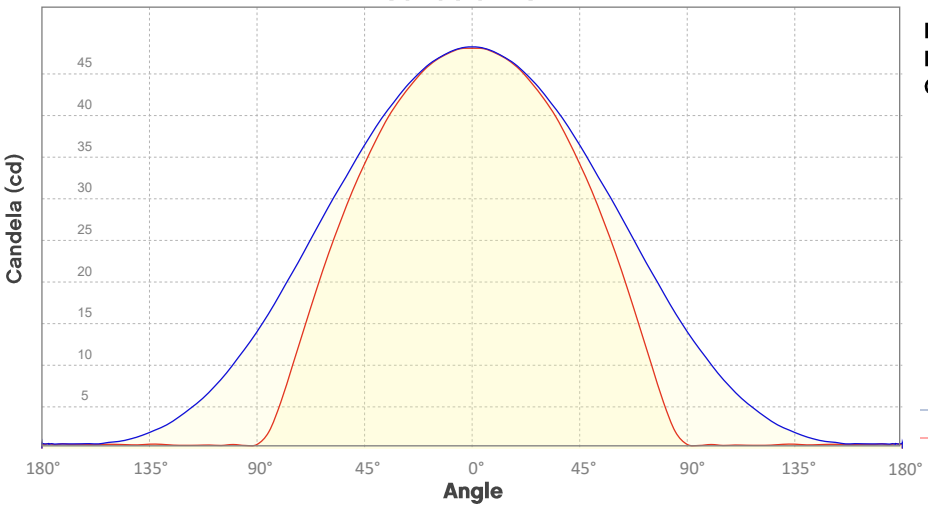
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	48	12	5	3	2	1	1	1	1	0
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	4	1	0	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

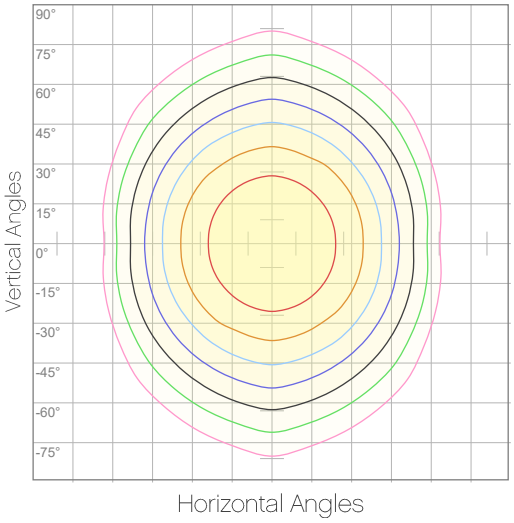
Well STX 180: Standard Optics – Green – 3 HR

Candela Plot



Beam Angle (50%): 128.3°
Field Angle (10%): 203.6°
Cutoff Angle (3%): 244.2°

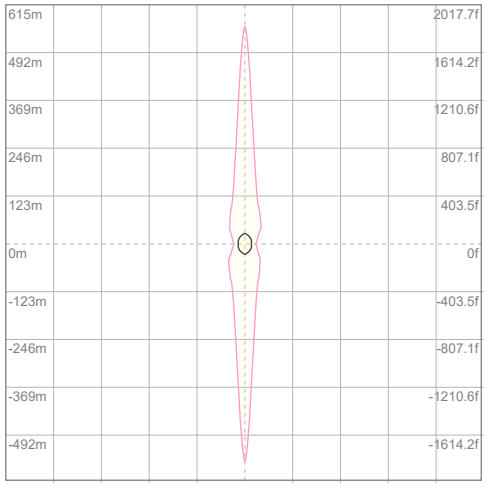
Polar Diagrams



iso-candela Diagram

10%	5 cd
20%	10 cd
30%	14 cd
40%	19 cd
50%	24 cd
60%	29 cd
70%	34 cd
80%	39 cd
90%	43 cd

Conditions:
Number of c-planes: 8
Candela at center: 48 cd



iso-illuminance Diagram

3%	14.4m lx
5%	24.1m lx
10%	48.2m lx
30%	0.144 lx
50%	0.241 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.482 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Green – 5 HR

Report Summary

Output

Total Lumens: 184 lm
Peak Intensity: 47.9 cd
Illuminance @ 5m: 2 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.5°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 234.2°
Horizontal Cutoff Angle (3%): 174.7°
Vertical Cutoff Angle (3%): 281.1°

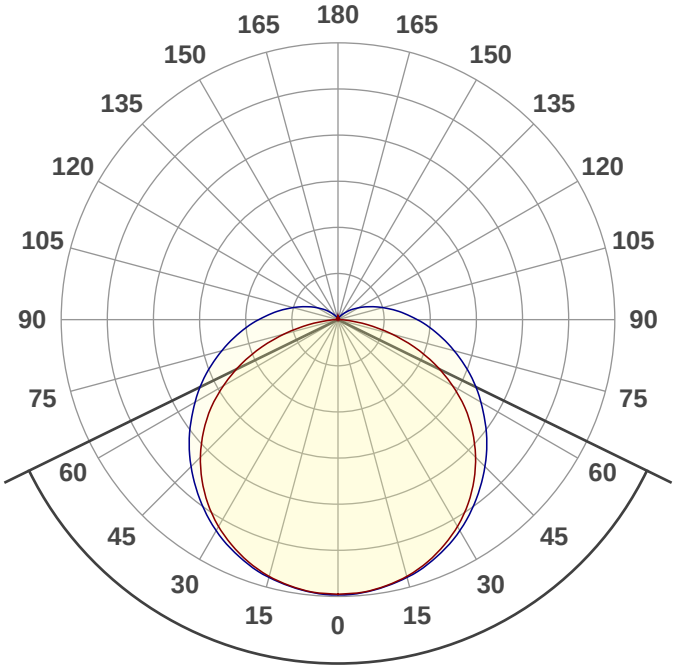
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

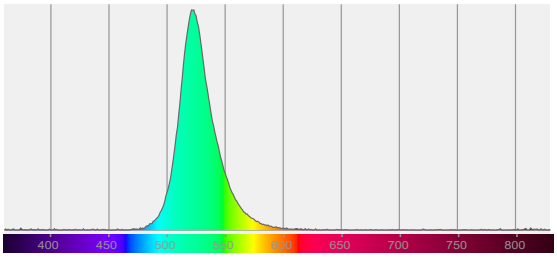
Overall Measurement

Angular Beam Distribution

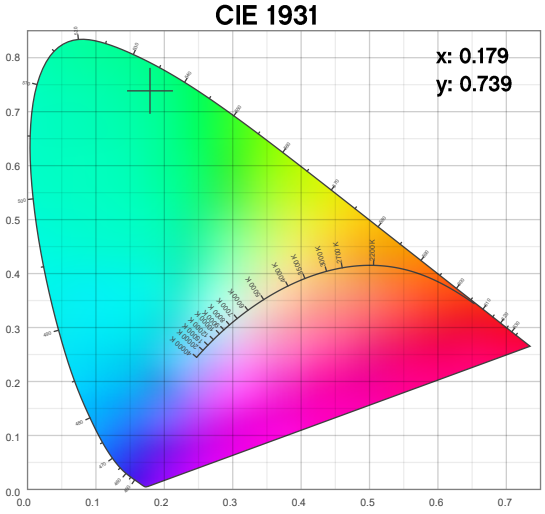


Beam Angle **127.9°**

Spectral Distribution



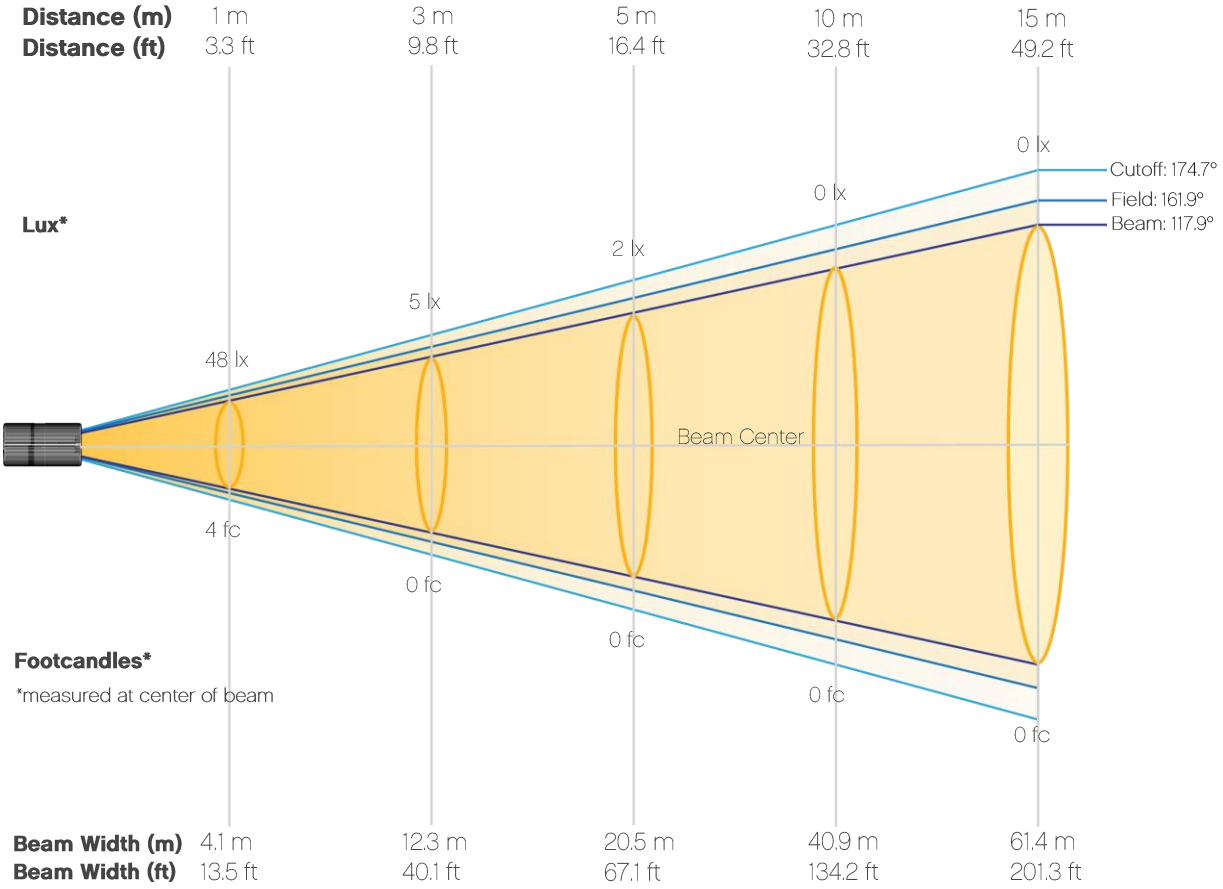
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Green – 5 HR

Beam Details



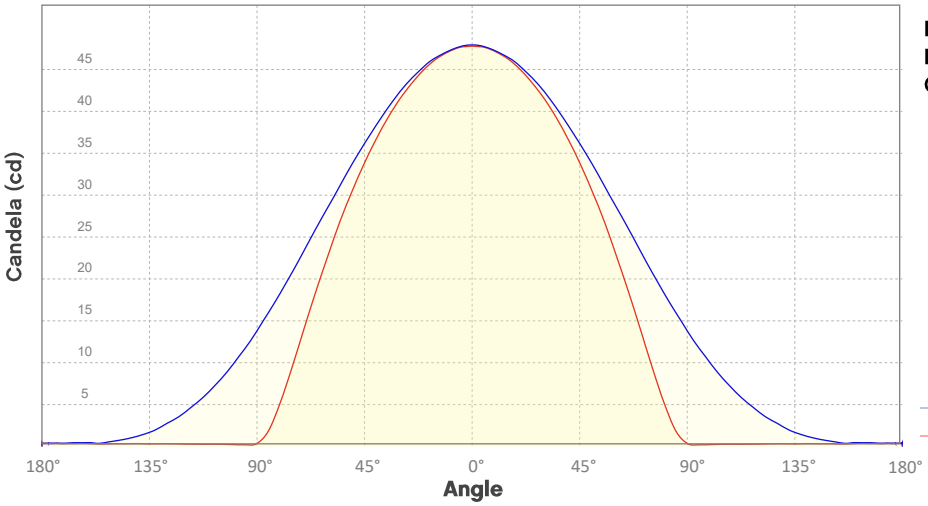
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	48	12	5	3	2	1	1	1	1	0
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	4	1	0	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

Well STX 180: Standard Optics – Green – 5 HR

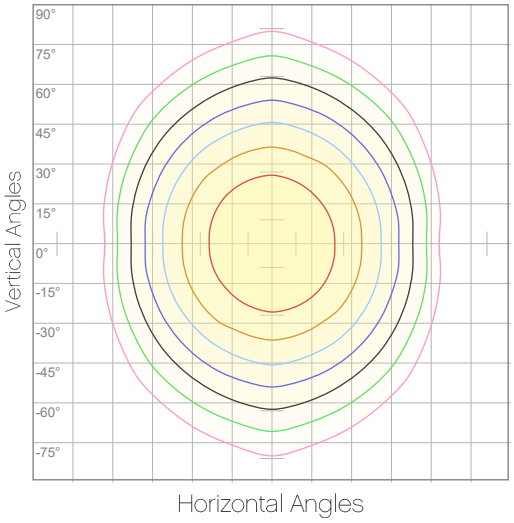
Candela Plot



Beam Angle (50%): 127.9°
Field Angle (10%): 202.5°
Cutoff Angle (3%): 240.7°

Horizontal Distribution
Vertical Distribution

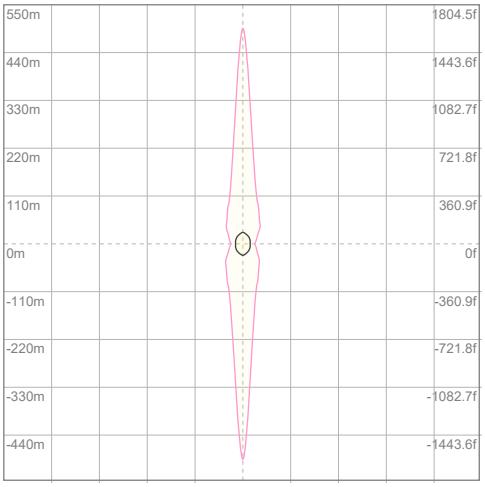
Polar Diagrams



iso-candela Diagram

10%	5 cd
20%	10 cd
30%	14 cd
40%	19 cd
50%	24 cd
60%	29 cd
70%	33 cd
80%	38 cd
90%	43 cd

Conditions:
Number of c-planes: 8
Candela at center: 48 cd



iso-illuminance Diagram

3%	14.3m lx
5%	23.9m lx
10%	47.8m lx
30%	0.143 lx
50%	0.239 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.478 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Green – 8 HR

Report Summary

Output

Total Lumens: 184 lm
Peak Intensity: 47.7 cd
Illuminance @ 5m: 2 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 118.2°
Vertical Beam Angle (50%): 138.6°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 234.3°
Horizontal Cutoff Angle (3%): 174.7°
Vertical Cutoff Angle (3%): 280.8°

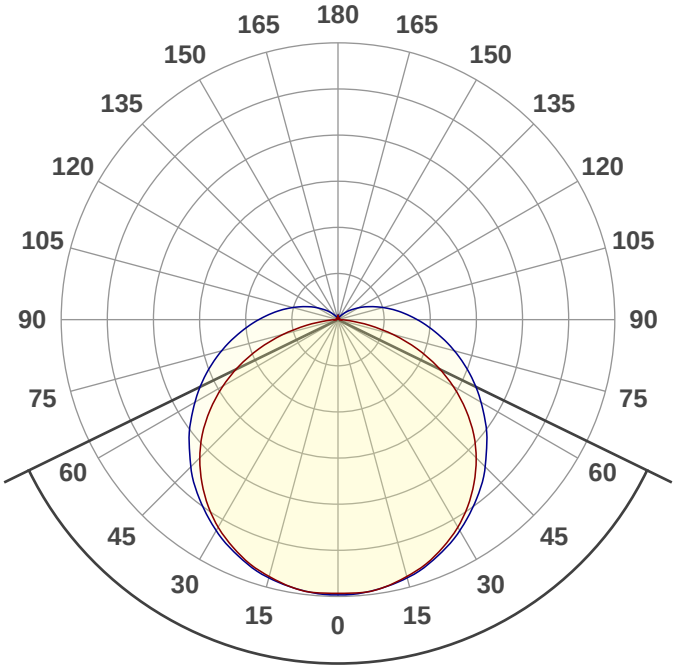
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

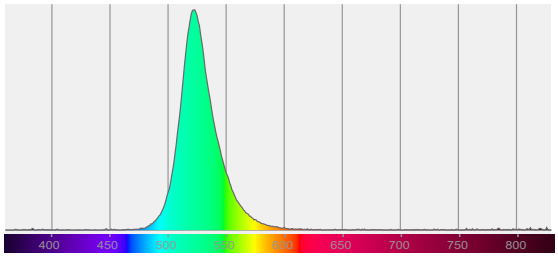
Overall Measurement

Angular Beam Distribution

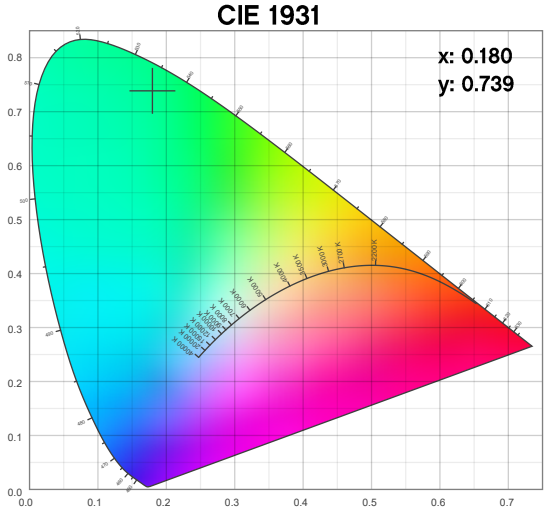


Beam Angle 128°

Spectral Distribution



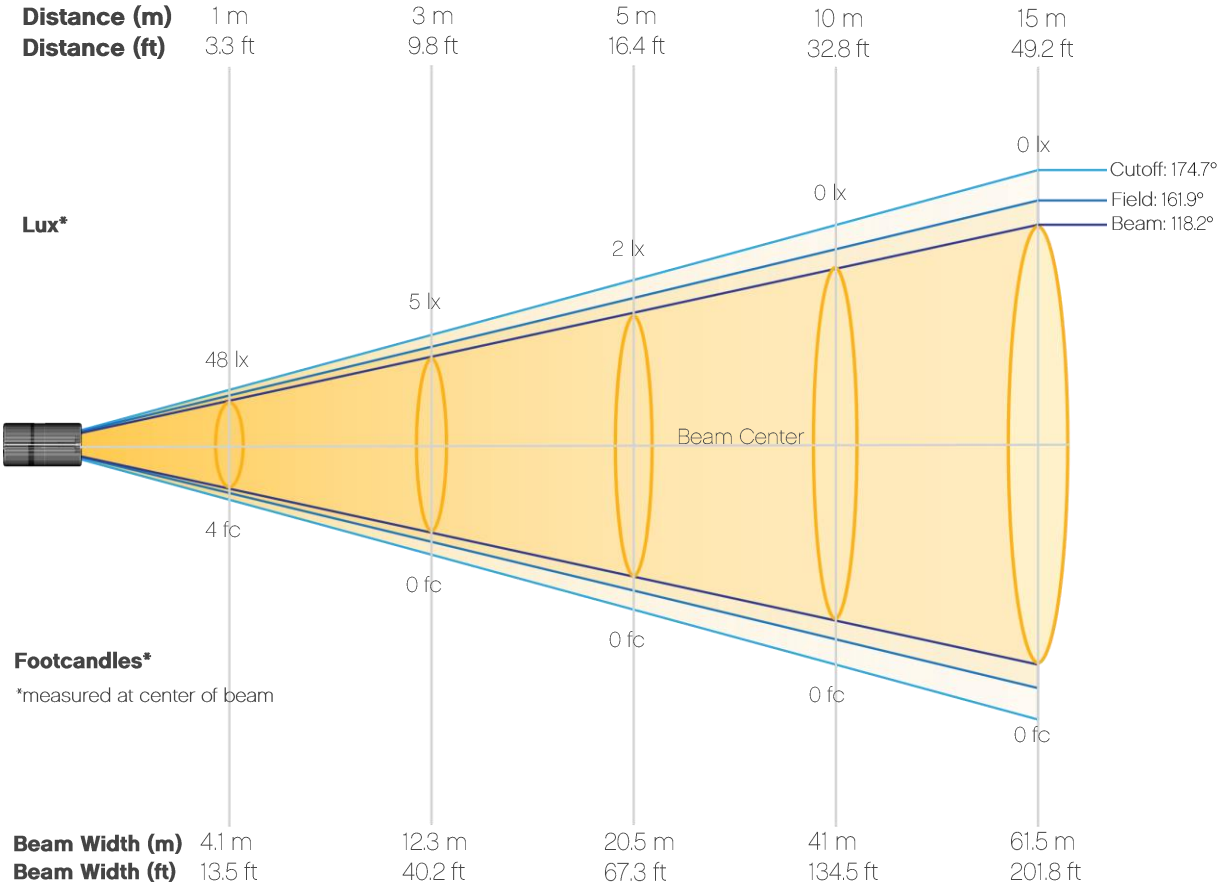
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Green – 8 HR

Beam Details



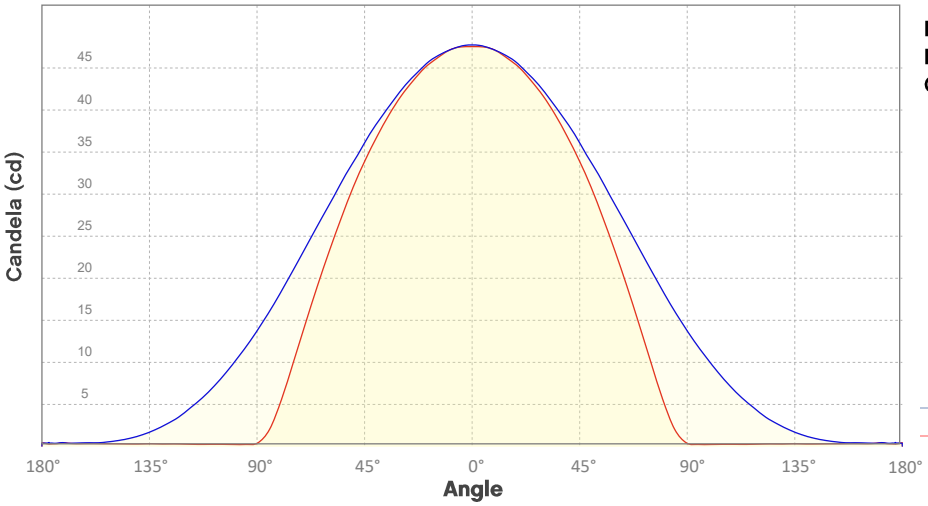
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	48	12	5	3	2	1	1	1	1	0
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	4	1	0	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

Well STX 180: Standard Optics – Green – 8 HR

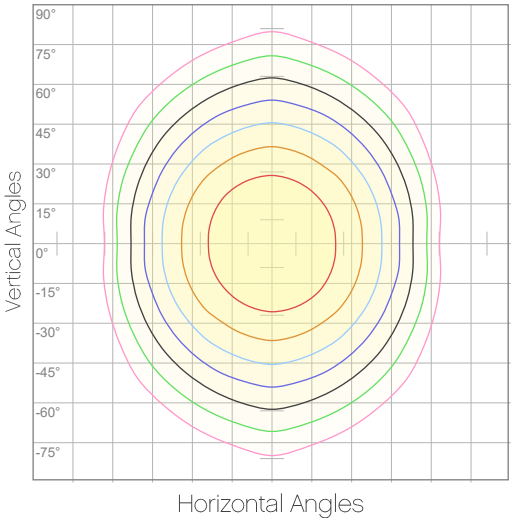
Candela Plot



Beam Angle (50%): 128°
Field Angle (10%): 202.5°
Cutoff Angle (3%): 240.9°

Horizontal Distribution
Vertical Distribution

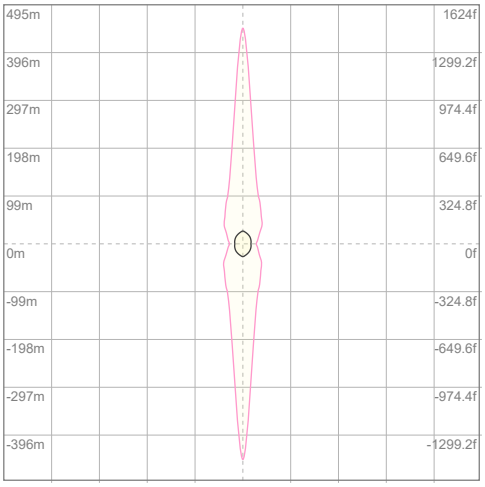
Polar Diagrams



iso-candela Diagram

10%	5 cd
20%	10 cd
30%	14 cd
40%	19 cd
50%	24 cd
60%	29 cd
70%	33 cd
80%	38 cd
90%	43 cd

Conditions:
Number of c-planes: 8
Candela at center: 48 cd



iso-illuminance Diagram

3%	14.3m lx
5%	23.8m lx
10%	47.6m lx
30%	0.143 lx
50%	0.238 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.476 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Green – 12 HR

Report Summary

Output

Total Lumens: 184 lm
Peak Intensity: 47.8 cd
Illuminance @ 5m: 2 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 118°
Vertical Beam Angle (50%): 138.3°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 234.2°
Horizontal Cutoff Angle (3%): 175°
Vertical Cutoff Angle (3%): 280.5°

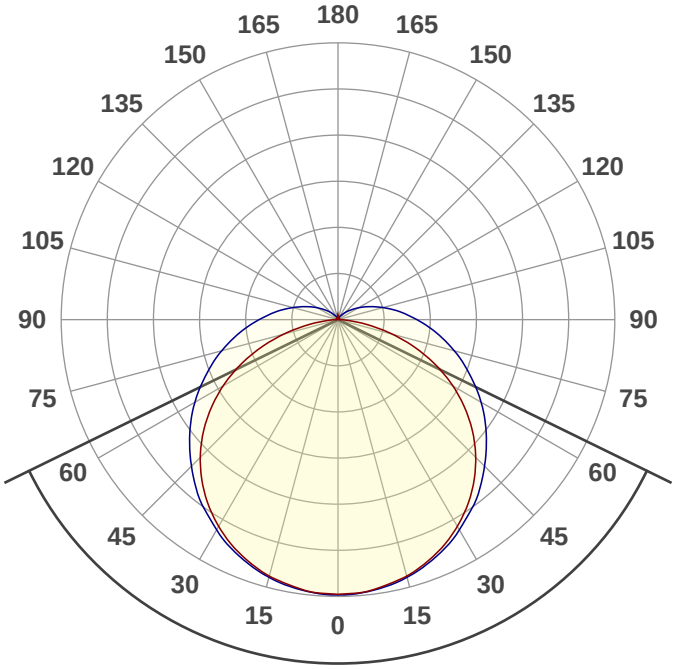
Conditions

AC Supply: 123 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

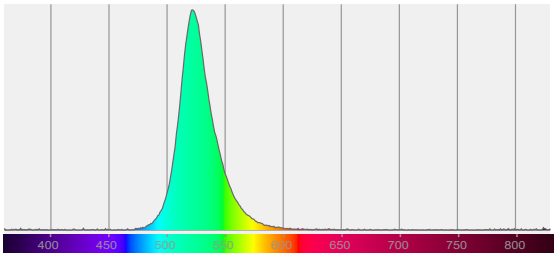
Overall Measurement

Angular Beam Distribution

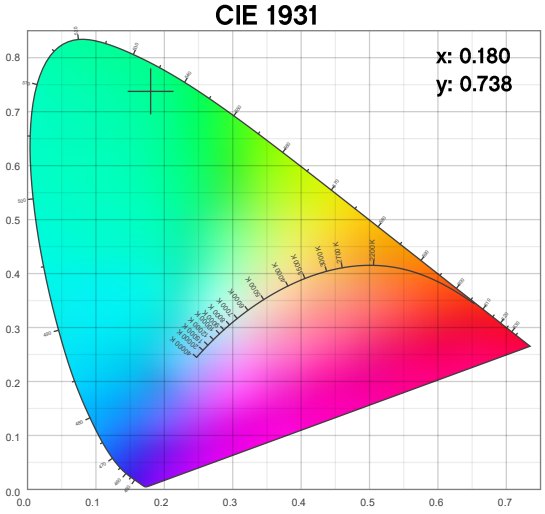


Beam Angle **127.8°**

Spectral Distribution



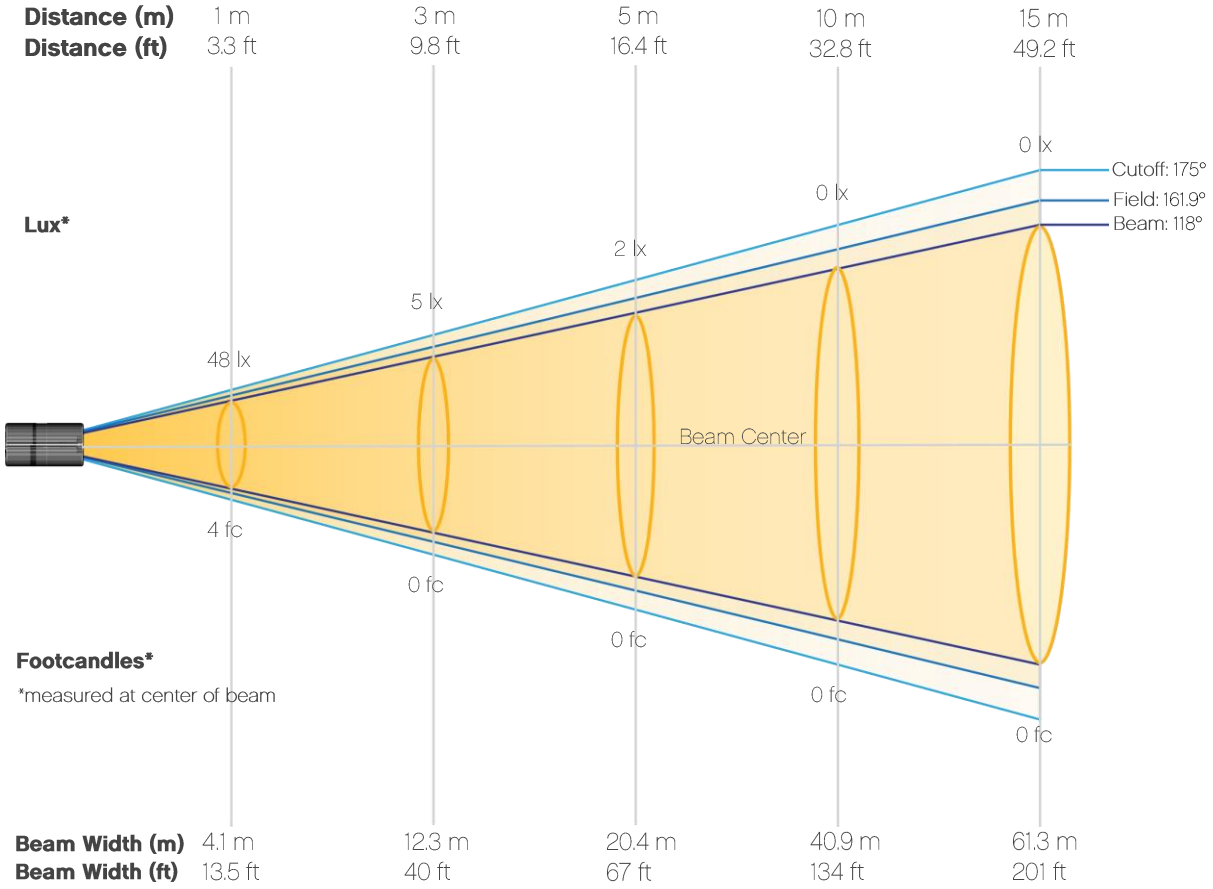
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Green – 12 HR

Beam Details



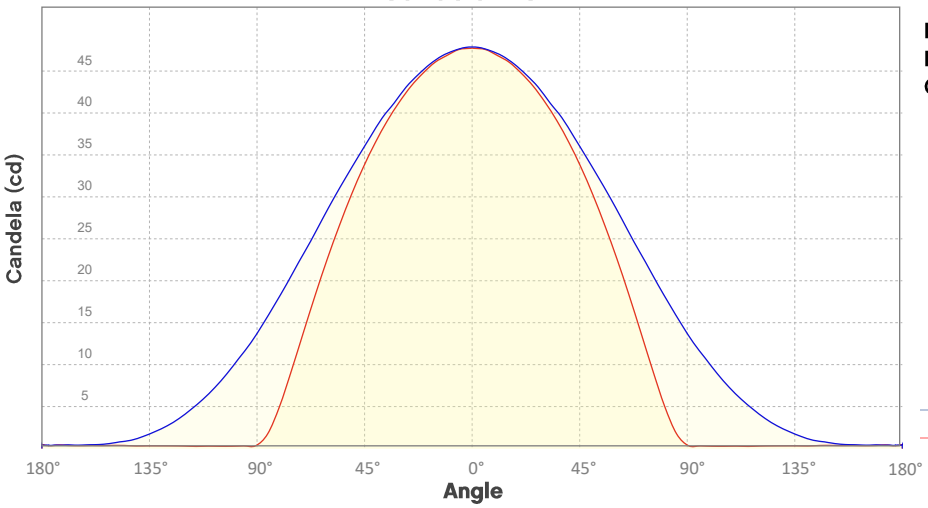
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	48	12	5	3	2	1	1	1	1	0
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	4	1	0	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

Well STX 180: Standard Optics – Green – 12 HR

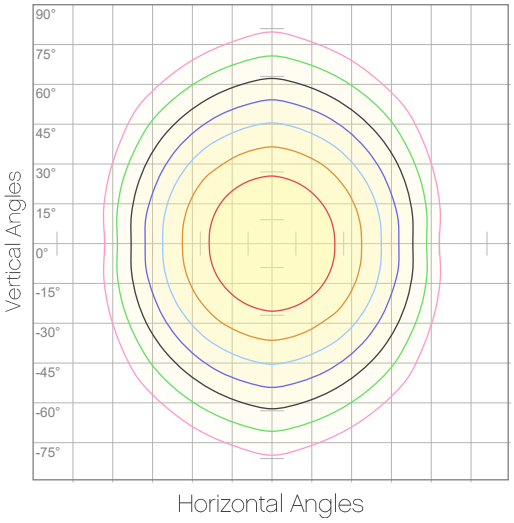
Candela Plot



Beam Angle (50%): 127.8°
Field Angle (10%): 202.5°
Cutoff Angle (3%): 240.8°

Horizontal Distribution
Vertical Distribution

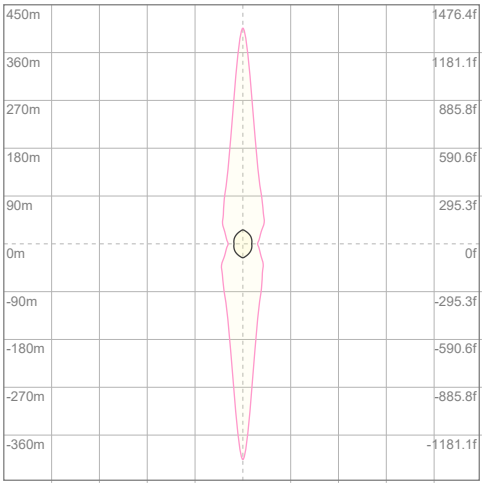
Polar Diagrams



iso-candela Diagram

10%	5 cd
20%	10 cd
30%	14 cd
40%	19 cd
50%	24 cd
60%	29 cd
70%	33 cd
80%	38 cd
90%	43 cd

Conditions:
Number of c-planes: 8
Candela at center: 48 cd



iso-illuminance Diagram

3%	14.3m lx
5%	23.9m lx
10%	47.8m lx
30%	0.143 lx
50%	0.239 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.478 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Blue – 3 HR

Report Summary

Output

Total Lumens: 86.3 lm
Peak Intensity: 22.0 cd
Illuminance @ 5m: 1 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 118.5°
Vertical Beam Angle (50%): 139.3°
Horizontal Field Angle (10%): 162.8°
Vertical Field Angle (10%): 237°
Horizontal Cutoff Angle (3%): 175.8°
Vertical Cutoff Angle (3%): 289.9°

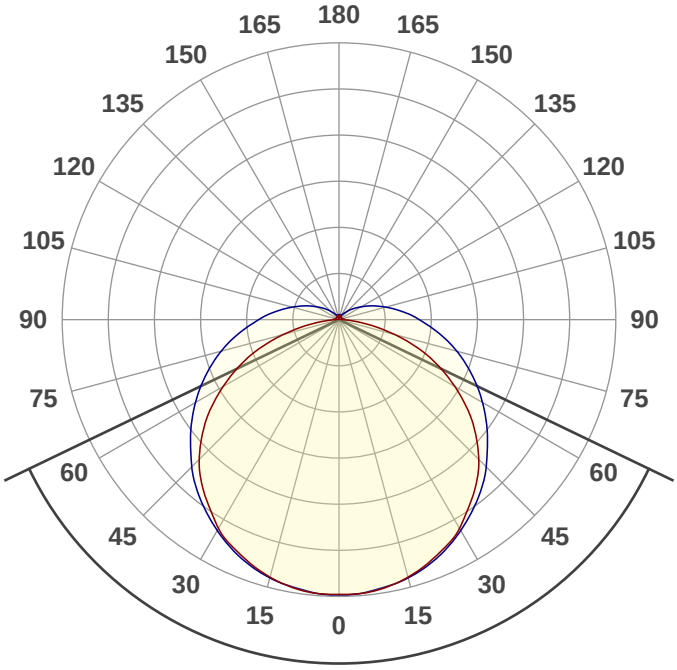
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

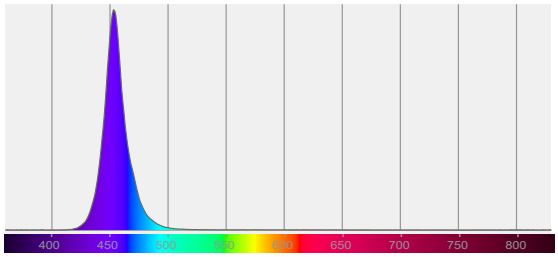
Overall Measurement

Angular Beam Distribution

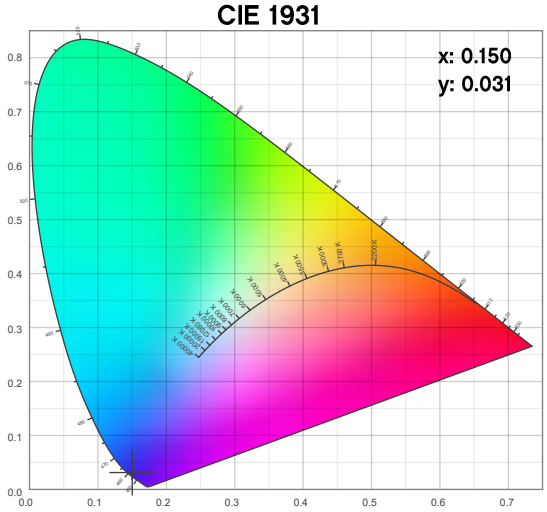


Beam Angle **128.6°**

Spectral Distribution



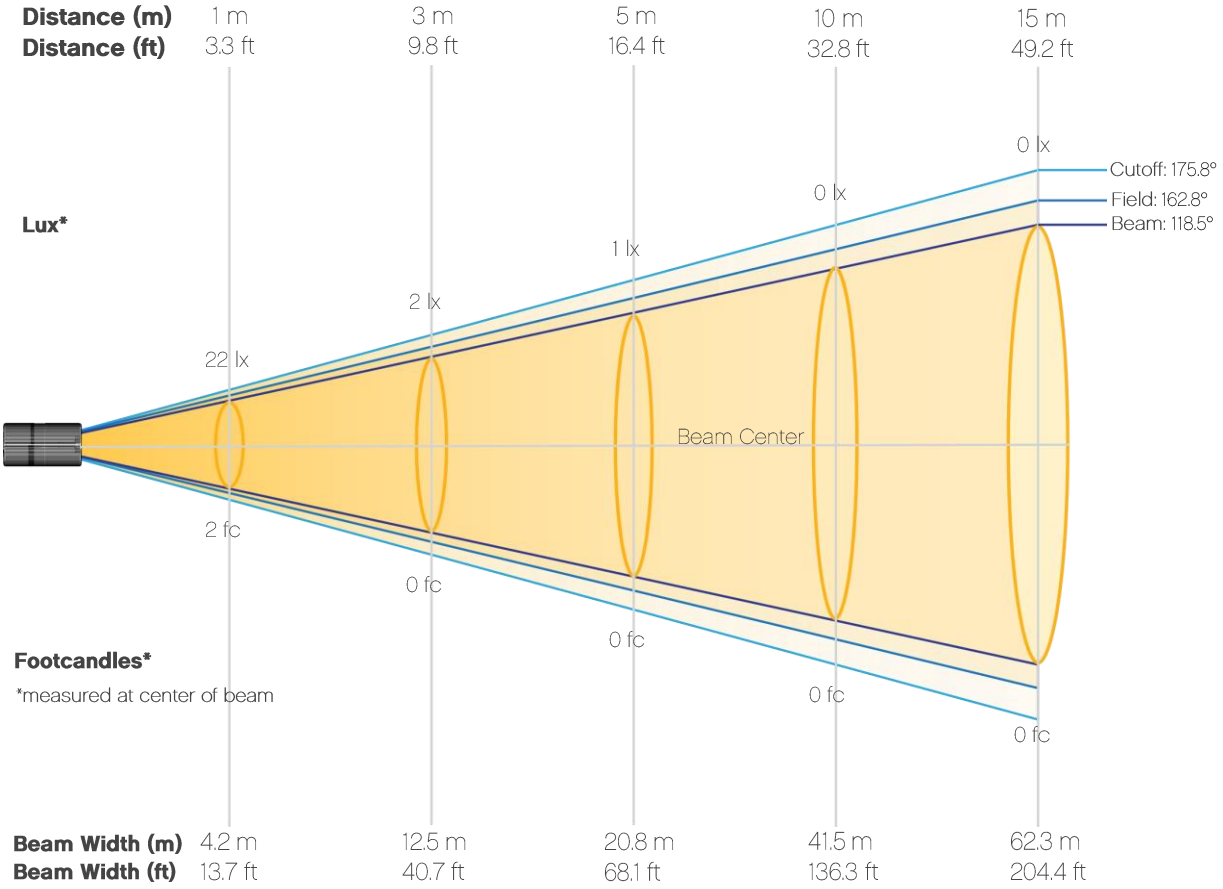
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Blue – 3 HR

Beam Details



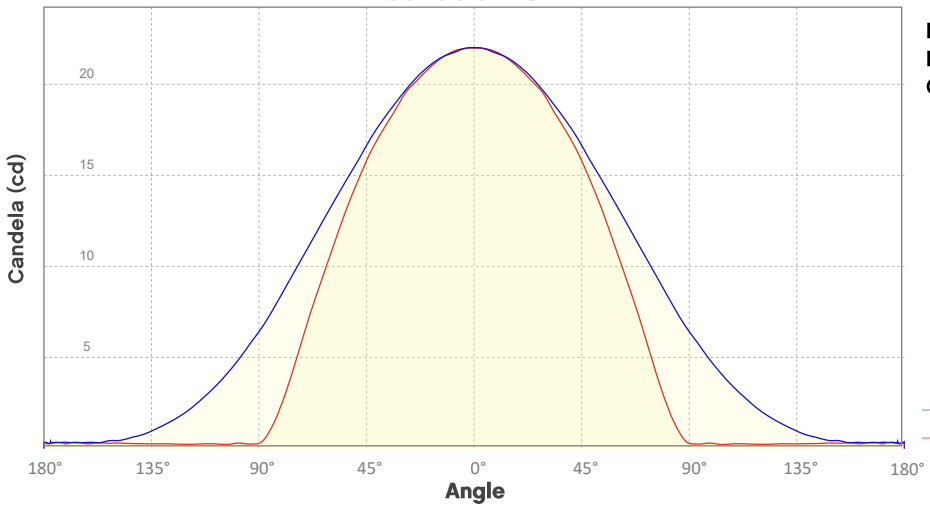
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	22	6	2	1	1	1	0	0	0	0
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	2	1	0	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

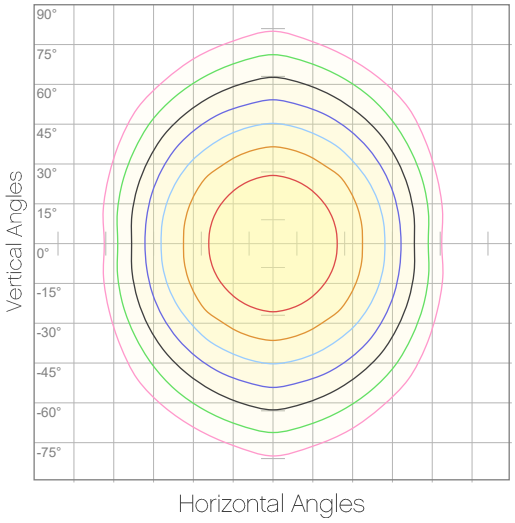
Well STX 180: Standard Optics – Blue – 3 HR

Candela Plot



Beam Angle (50%): 128.6°
Field Angle (10%): 204.8°
Cutoff Angle (3%): 247.8°

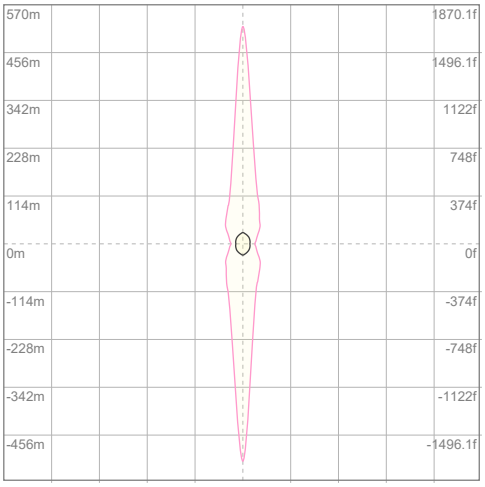
Polar Diagrams



iso-candela Diagram

10%	2 cd
20%	4 cd
30%	7 cd
40%	9 cd
50%	11 cd
60%	13 cd
70%	15 cd
80%	18 cd
90%	20 cd

Conditions:
Number of c-planes: 8
Candela at center: 22 cd



iso-illuminance Diagram

3%	6.60m lx
5%	11.0m lx
10%	22.0m lx
30%	66.0m lx
50%	0.110 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.220 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Blue – 5 HR

Report Summary

Output

Total Lumens: - lm
Peak Intensity: 729 cd
Illuminance @ 5m: 0 lux
Fixture Efficacy: 0 lm/W

Optical

Horizontal Beam Angle (50%): 0°
Vertical Beam Angle (50%): 0°
Horizontal Field Angle (10%): 0°
Vertical Field Angle (10%): 0°
Horizontal Cutoff Angle (3%): 0°
Vertical Cutoff Angle (3%): 0°

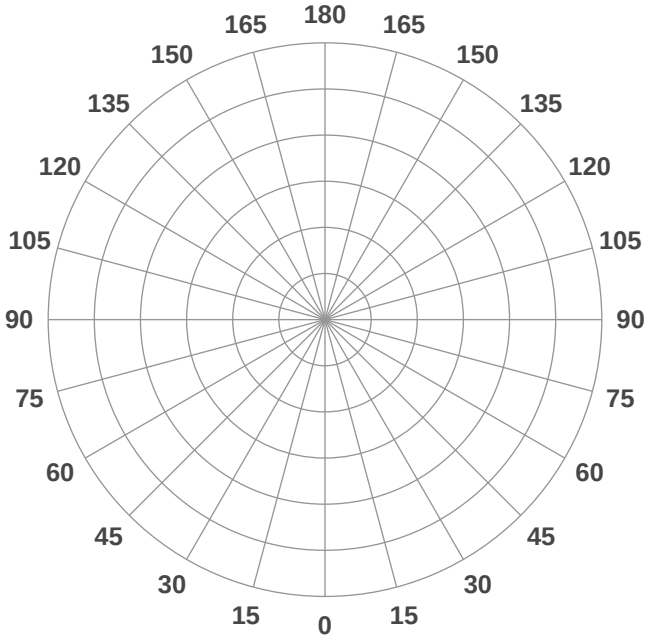
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 10/6/2020 to LM-63-2002 Standards.

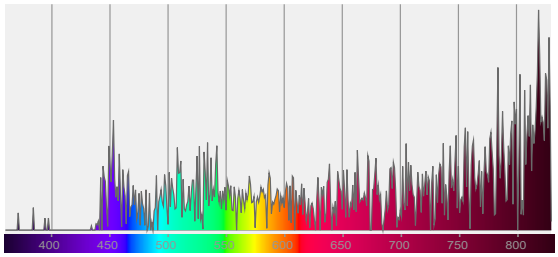
Overall Measurement

Angular Beam Distribution

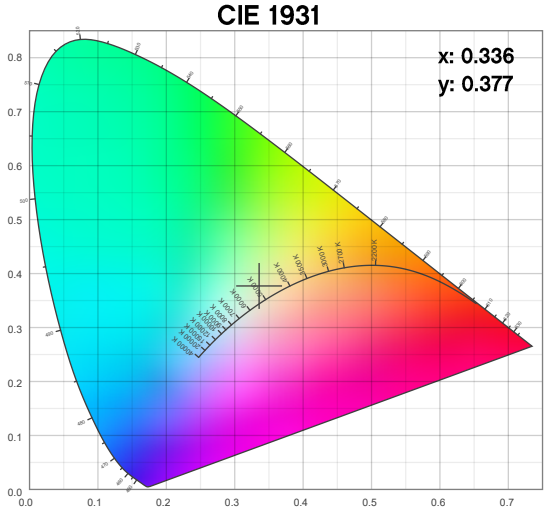


Beam Angle

Spectral Distribution



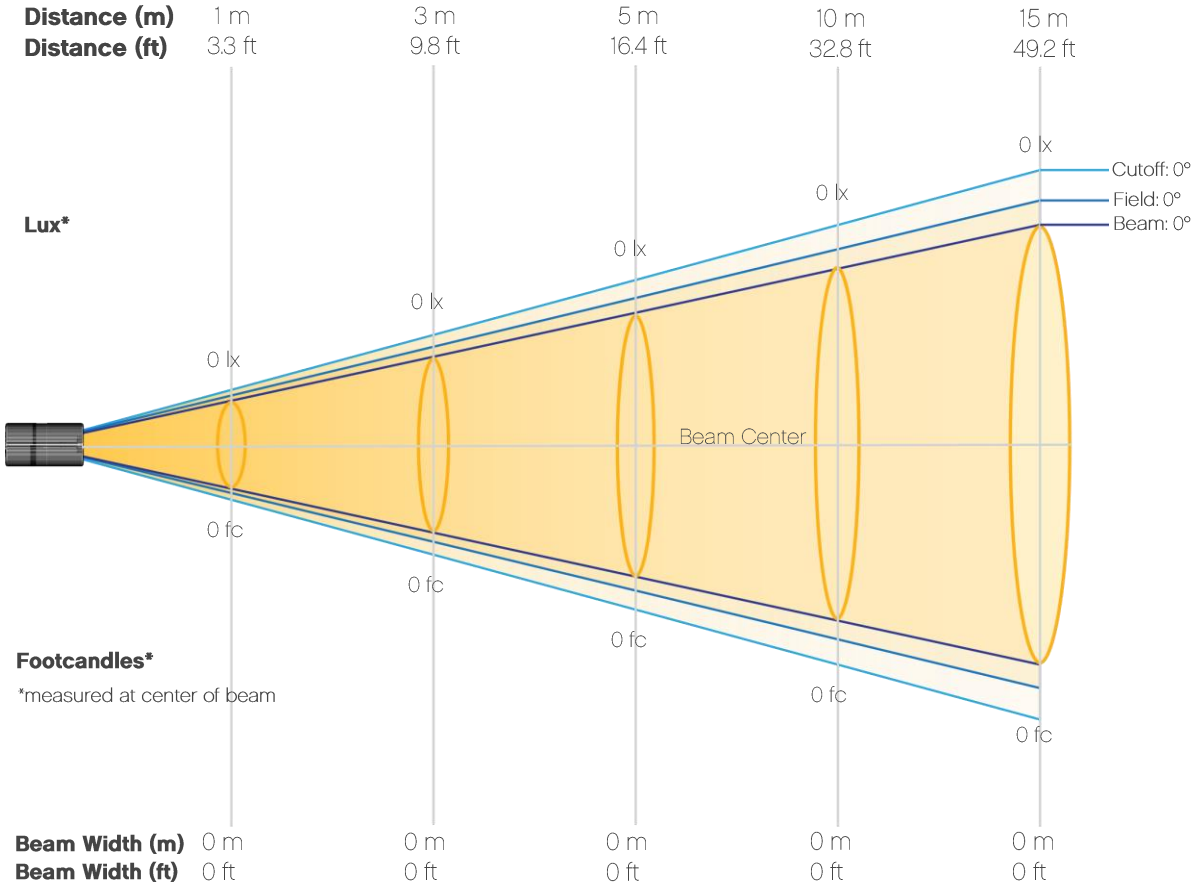
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Blue – 5 HR

Beam Details



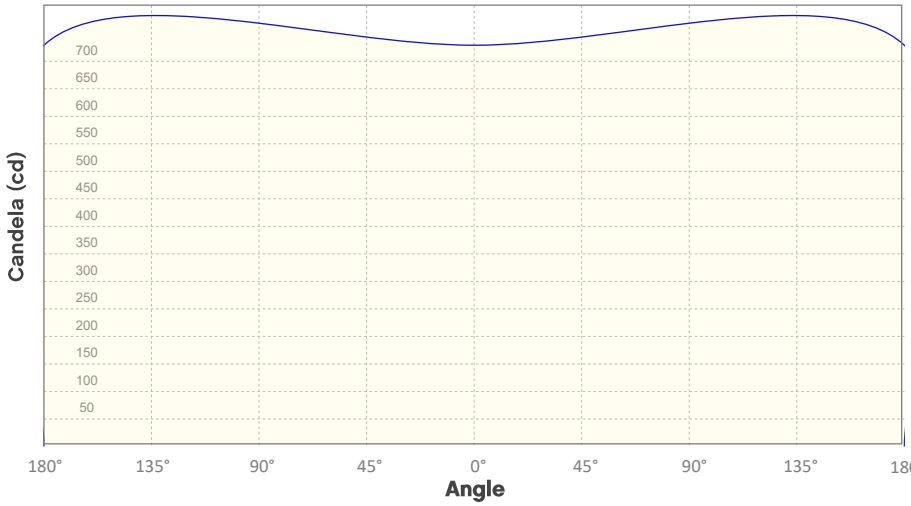
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	0	0	0	0	0	0	0	0	0	0
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	0	0	0	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

Well STX 180: Standard Optics – Blue – 5 HR

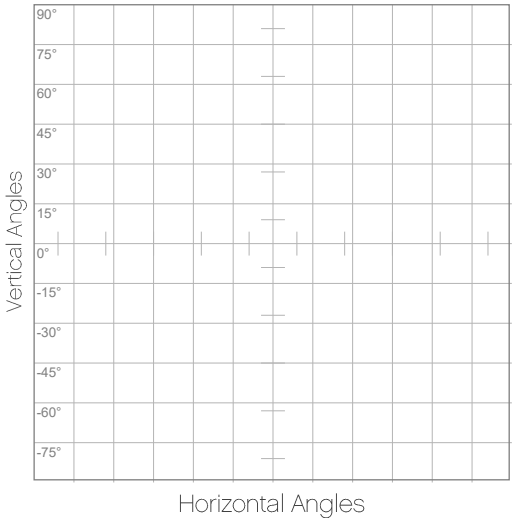
Candela Plot



Beam Angle (50%): 0°
Field Angle (10%): 0°
Cutoff Angle (3%): 0°

Horizontal Distribution
Vertical Distribution

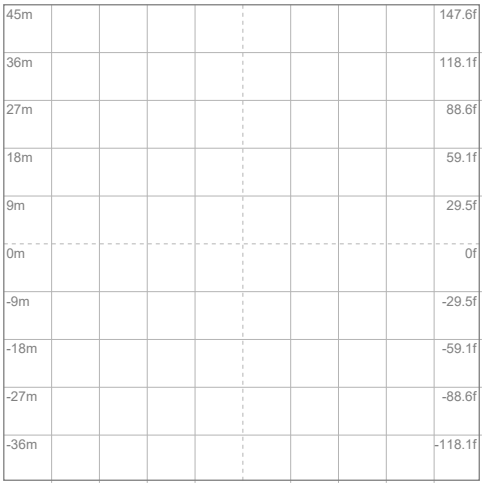
Polar Diagrams



iso-candela Diagram

10%	0 cd
20%	0 cd
30%	0 cd
40%	0 cd
50%	0 cd
60%	0 cd
70%	0 cd
80%	0 cd
90%	0 cd

Conditions:
Number of c-planes: 2
Candela at center: 0 cd



iso-illuminance Diagram

3%	0u lx
5%	0u lx
10%	0u lx
30%	0u lx
50%	0u lx

Conditions:
Number of c-planes: 2
Lux at center: 0u lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Blue – 8 HR

Report Summary

Output

Total Lumens: 86.4 lm
Peak Intensity: 22.1 cd
Illuminance @ 5m: 1 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 118.7°
Vertical Beam Angle (50%): 139.4°
Horizontal Field Angle (10%): 162.9°
Vertical Field Angle (10%): 237.8°
Horizontal Cutoff Angle (3%): 177.1°
Vertical Cutoff Angle (3%): 298.3°

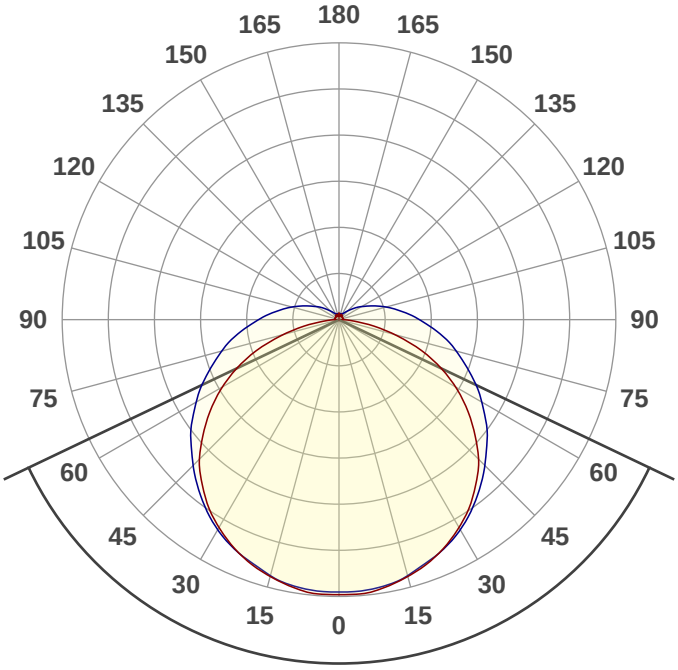
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

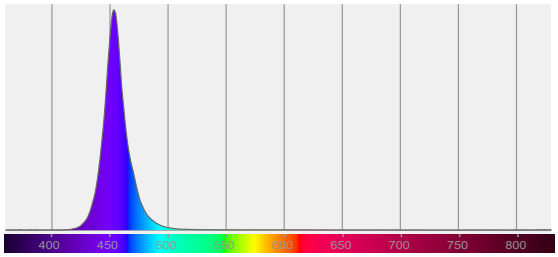
Overall Measurement

Angular Beam Distribution

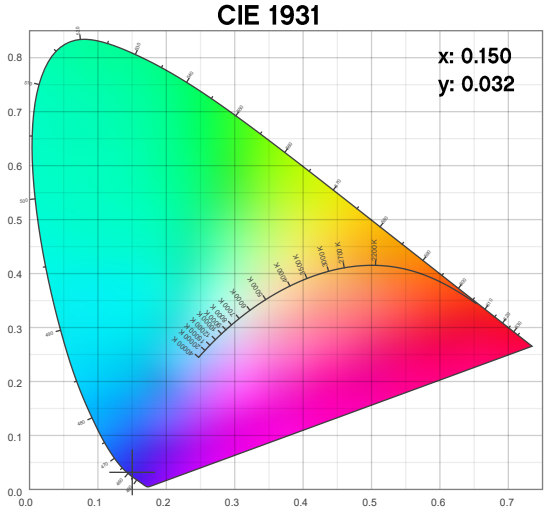


Beam Angle 129°

Spectral Distribution



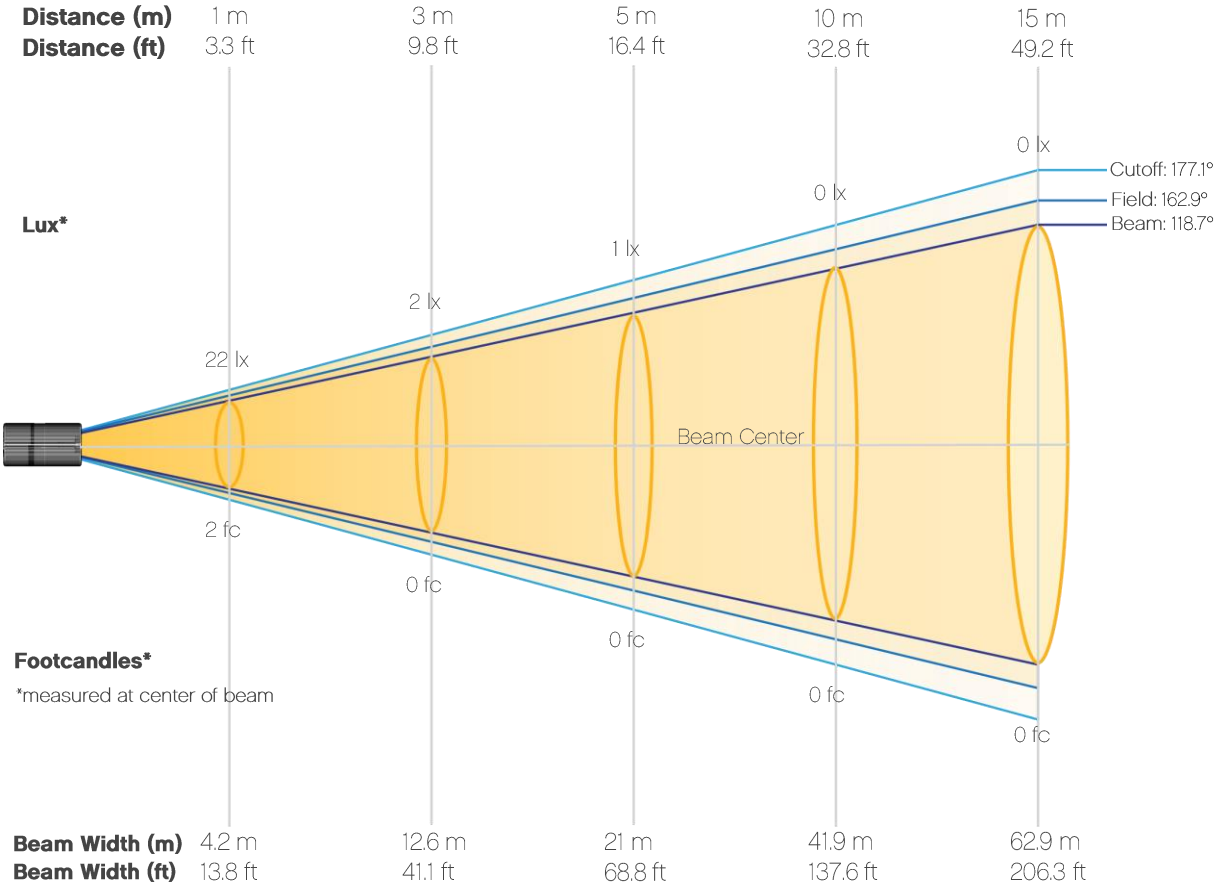
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Blue – 8 HR

Beam Details



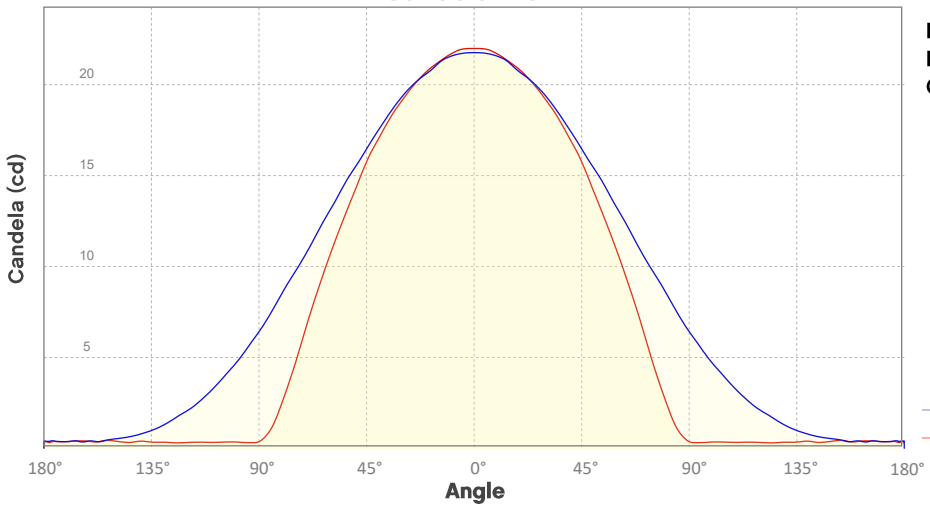
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	22	5	2	1	1	1	0	0	0	0
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	2	1	0	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

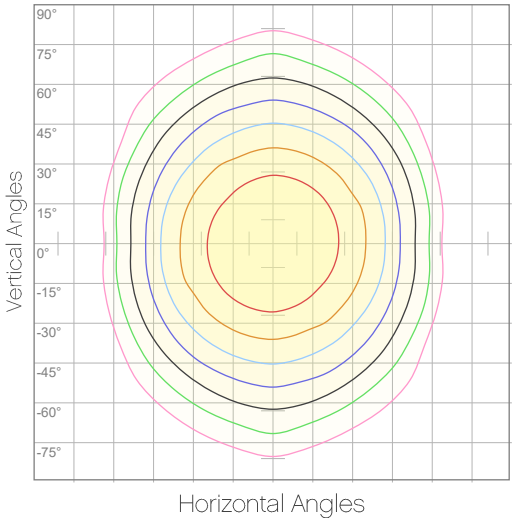
Well STX 180: Standard Optics – Blue – 8 HR

Candela Plot



Beam Angle (50%): 129°
Field Angle (10%): 205.5°
Cutoff Angle (3%): 253.4°

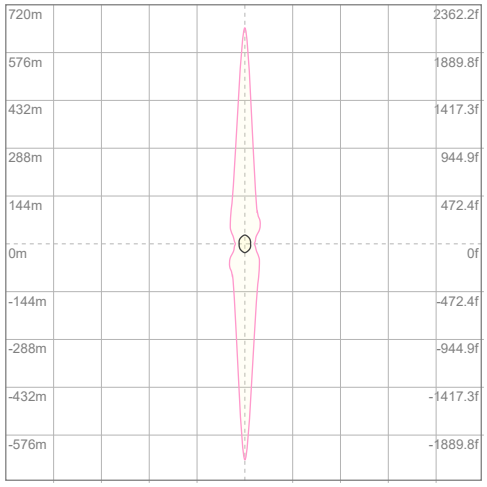
Polar Diagrams



iso-candela Diagram

10%	2 cd
20%	4 cd
30%	7 cd
40%	9 cd
50%	11 cd
60%	13 cd
70%	15 cd
80%	17 cd
90%	20 cd

Conditions:
Number of c-planes: 8
Candela at center: 22 cd



iso-illuminance Diagram

3%	6.56m lx
5%	10.9m lx
10%	21.9m lx
30%	65.6m lx
50%	0.109 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.219 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Blue – 12 HR

Report Summary

Output

Total Lumens: 86.4 lm
Peak Intensity: 22.1 cd
Illuminance @ 5m: 1 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 118.7°
Vertical Beam Angle (50%): 139.4°
Horizontal Field Angle (10%): 162.9°
Vertical Field Angle (10%): 237.8°
Horizontal Cutoff Angle (3%): 177.1°
Vertical Cutoff Angle (3%): 298.3°

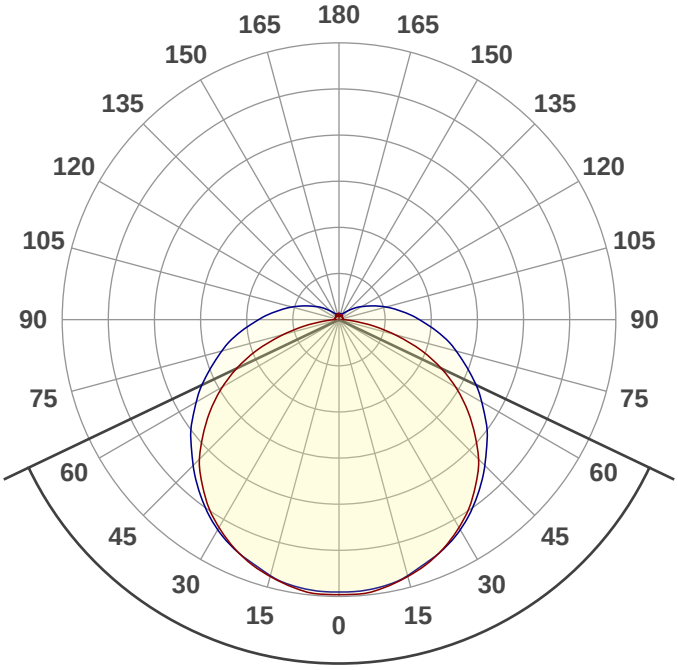
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

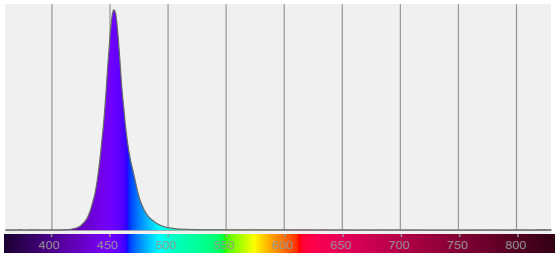
Overall Measurement

Angular Beam Distribution

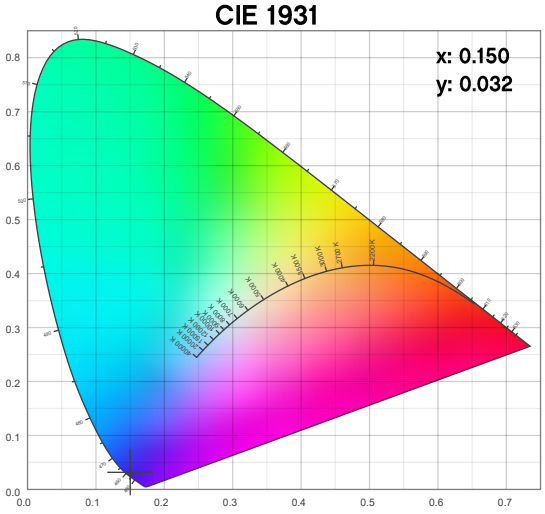


Beam Angle **129°**

Spectral Distribution



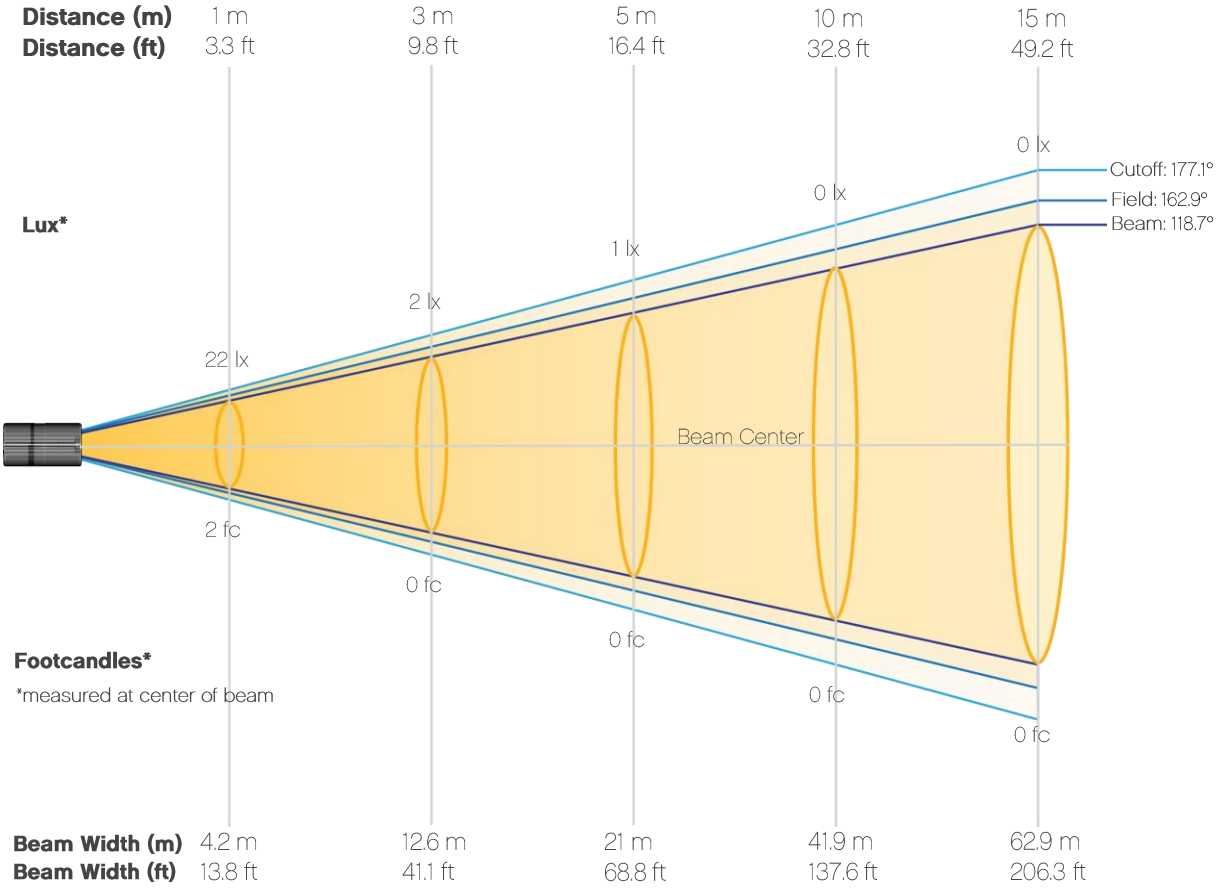
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Blue – 12 HR

Beam Details



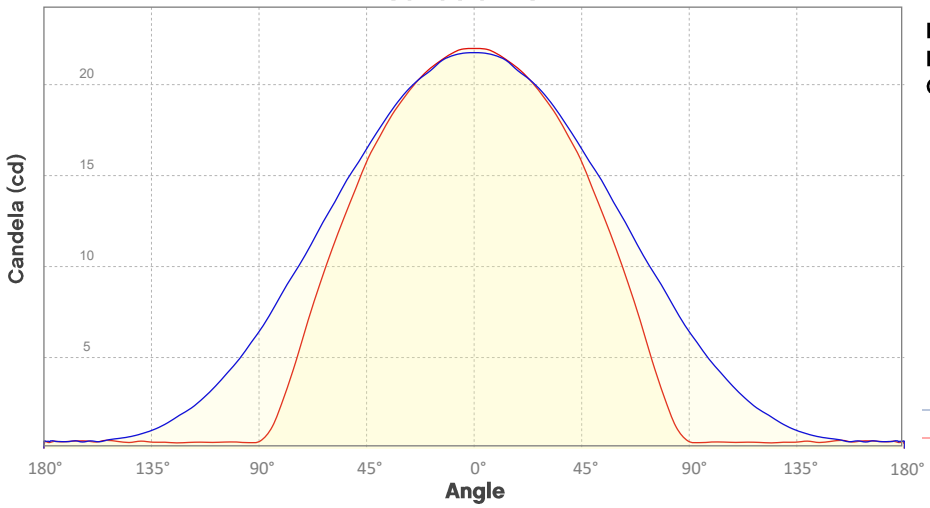
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	22	5	2	1	1	1	0	0	0	0
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	2	1	0	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

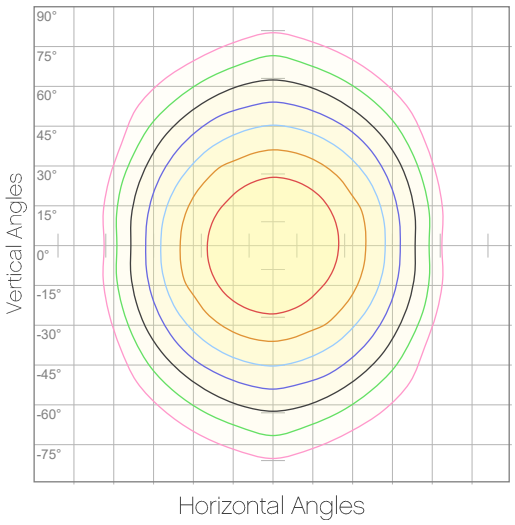
Well STX 180: Standard Optics – Blue – 12 HR

Candela Plot



Beam Angle (50%): 129°
Field Angle (10%): 205.5°
Cutoff Angle (3%): 253.4°

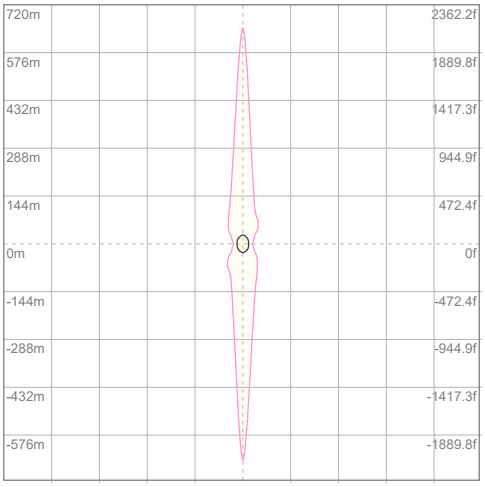
Polar Diagrams



iso-candela Diagram

10%	2 cd
20%	4 cd
30%	7 cd
40%	9 cd
50%	11 cd
60%	13 cd
70%	15 cd
80%	17 cd
90%	20 cd

Conditions:
Number of c-planes: 8
Candela at center: 22 cd



iso-illuminance Diagram

3%	6.56m lx
5%	10.9m lx
10%	21.9m lx
30%	65.6m lx
50%	0.109 lx

Conditions:
Number of c-planes: 8
Lux at center: 0.219 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Warm White – 3 HR

Report Summary

Output

Total Lumens: 638 lm
Peak Intensity: 167 cd
Illuminance @ 5m: 7 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.6°
Vertical Beam Angle (50%): 137.4°
Horizontal Field Angle (10%): 161.8°
Vertical Field Angle (10%): 232.7°
Horizontal Cutoff Angle (3%): 174.7°
Vertical Cutoff Angle (3%): 280.5°

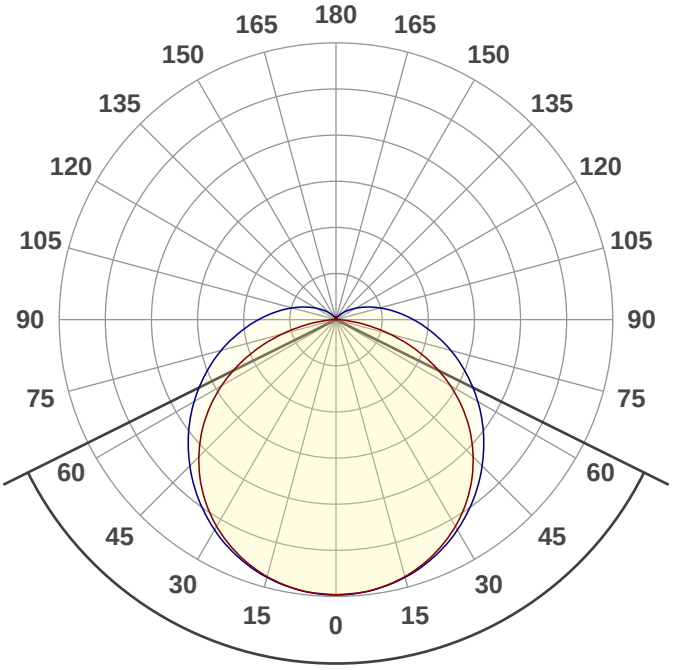
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

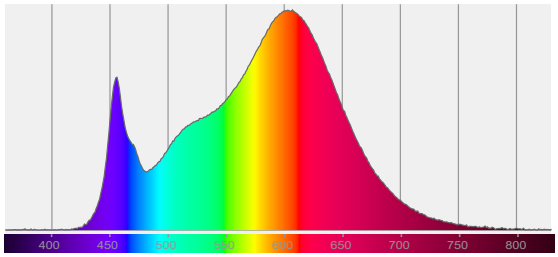
Overall Measurement

Angular Beam Distribution

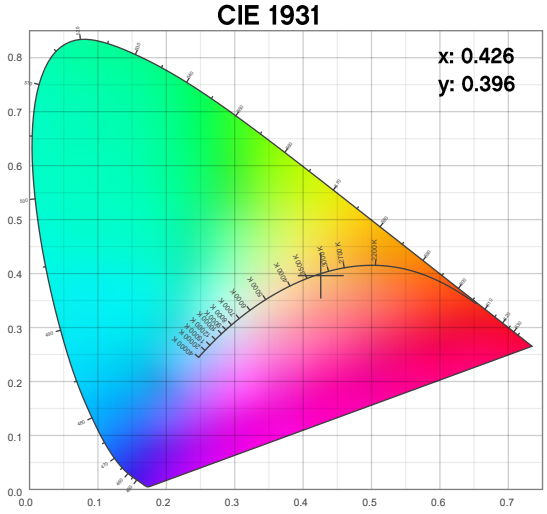


Beam Angle **127.2°**

Spectral Distribution



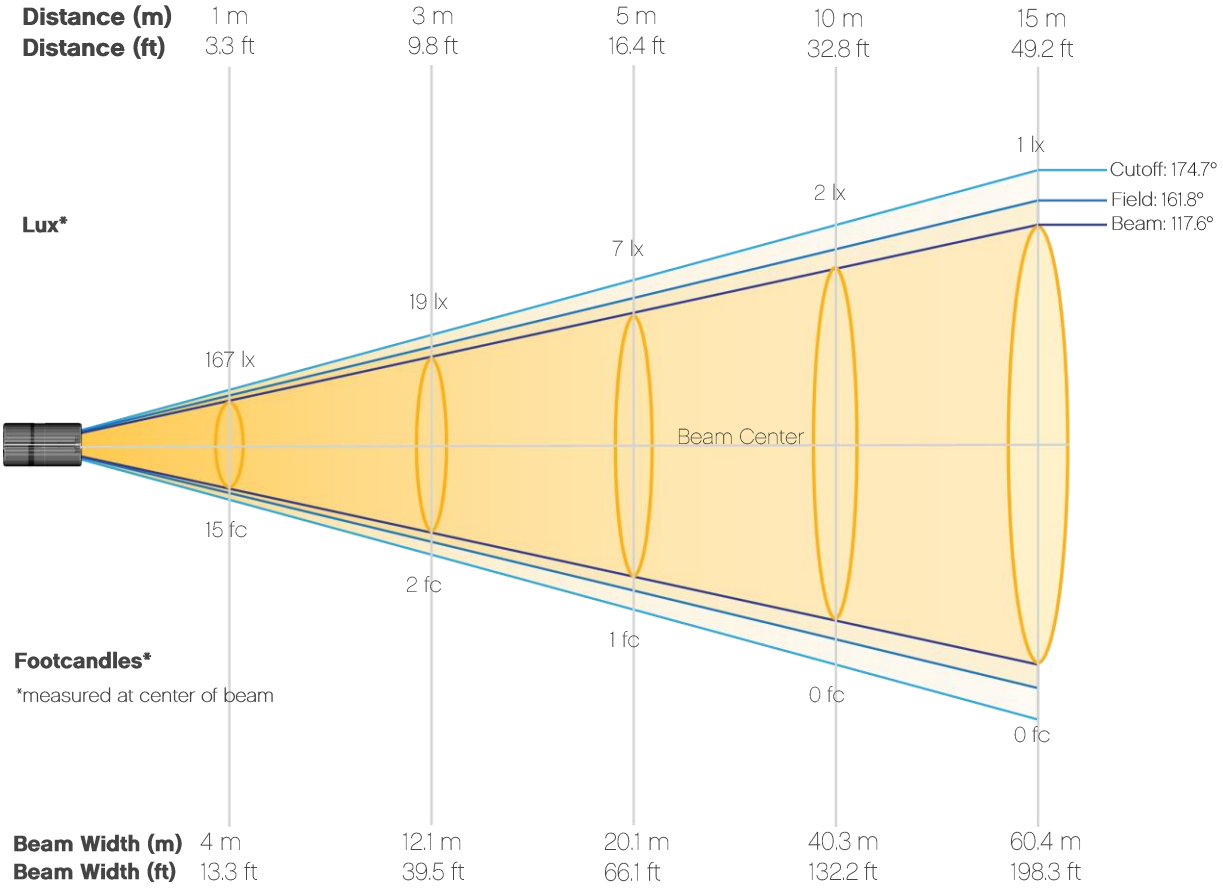
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Warm White – 3 HR

Beam Details



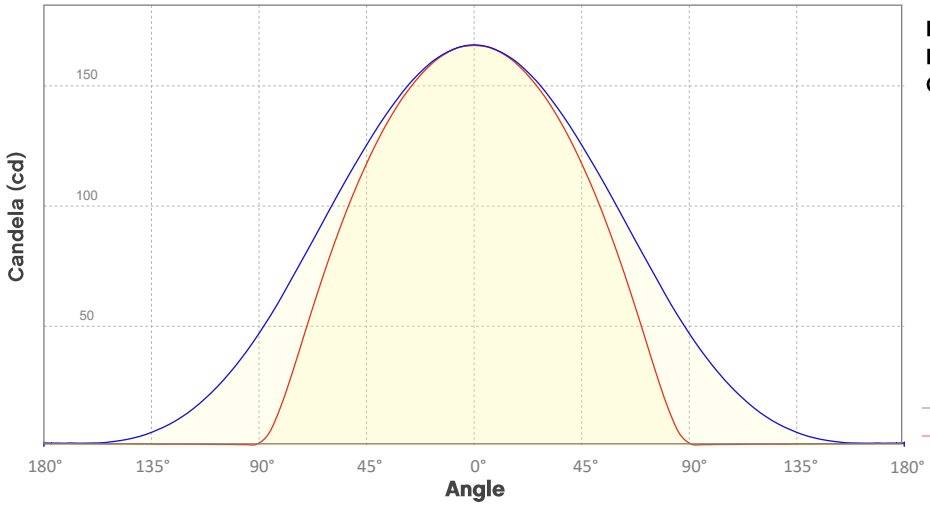
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	167	42	19	10	7	5	3	3	2	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	1	1	1	0	0
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	15	4	2	1	1	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

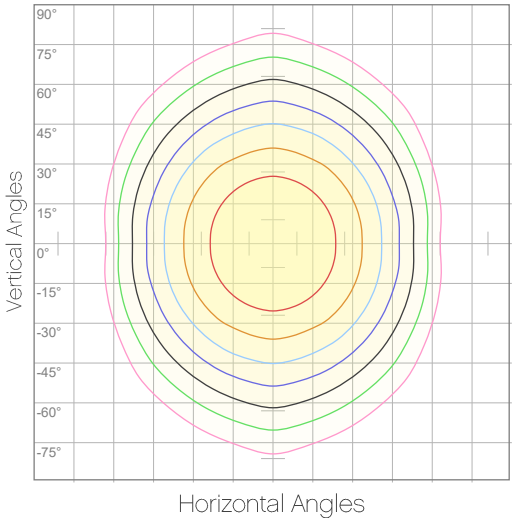
Well STX 180: Standard Optics – Warm White – 3 HR

Candela Plot



Beam Angle (50%): 127.2°
Field Angle (10%): 201.5°
Cutoff Angle (3%): 240.5°

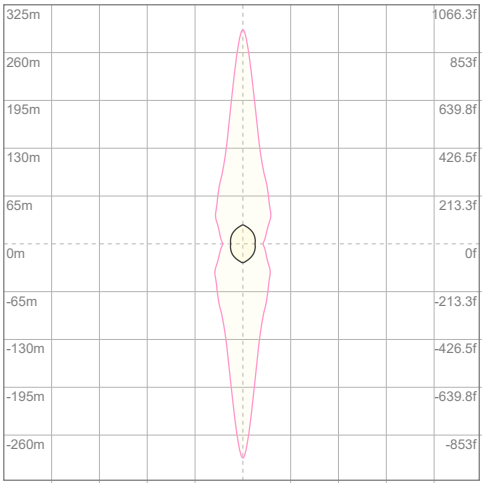
Polar Diagrams



iso-candela Diagram

10%	17 cd
20%	33 cd
30%	50 cd
40%	67 cd
50%	83 cd
60%	100 cd
70%	117 cd
80%	133 cd
90%	150 cd

Conditions:
Number of c-planes: 8
Candela at center: 167 cd



iso-illuminance Diagram

3%	50.0m lx
5%	83.4m lx
10%	0.167 lx
30%	0.500 lx
50%	0.834 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.67 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Warm White – 5 HR

Report Summary

Output

Total Lumens: 638 lm
Peak Intensity: 167 cd
Illuminance @ 5m: 7 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.6°
Vertical Beam Angle (50%): 137.3°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 174.9°
Vertical Cutoff Angle (3%): 280.7°

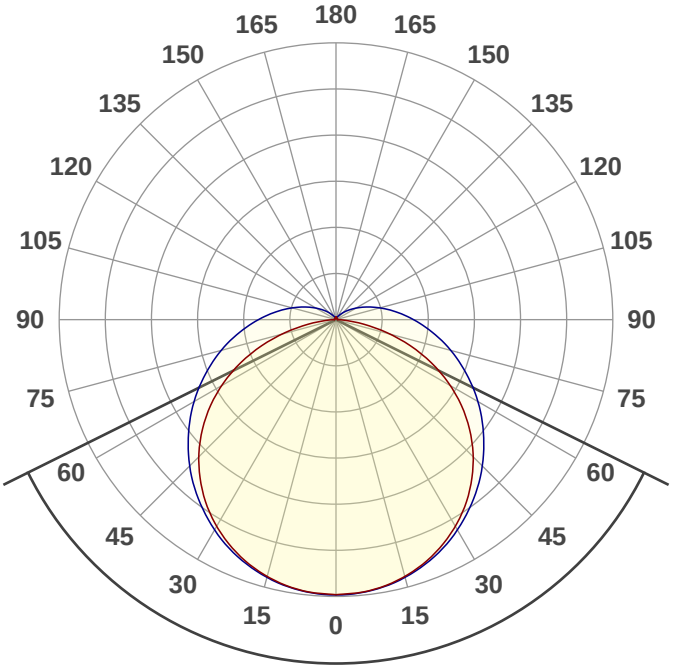
Conditions

AC Supply: 122 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

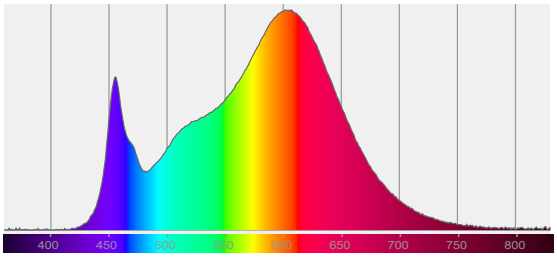
Overall Measurement

Angular Beam Distribution

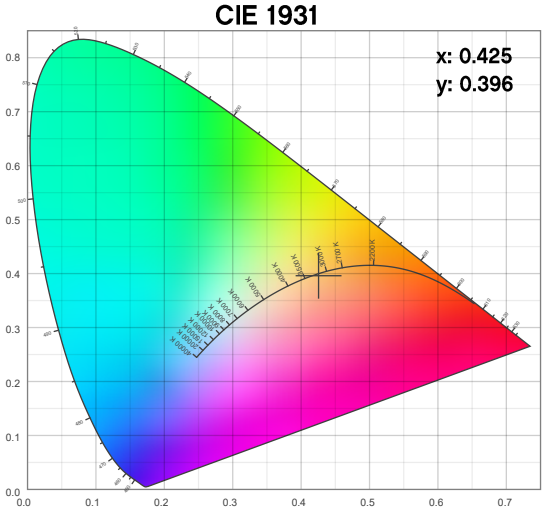


Beam Angle **127.2°**

Spectral Distribution



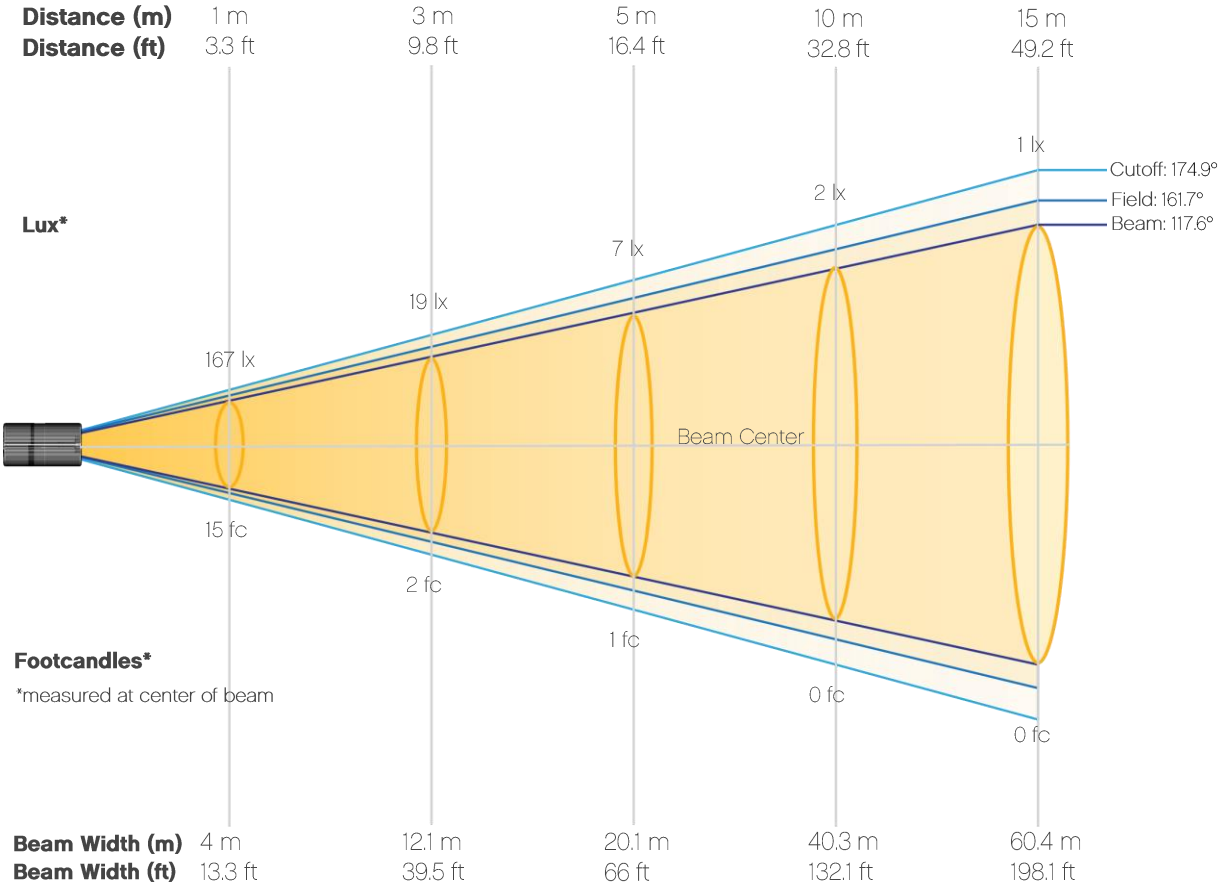
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Warm White – 5 HR

Beam Details



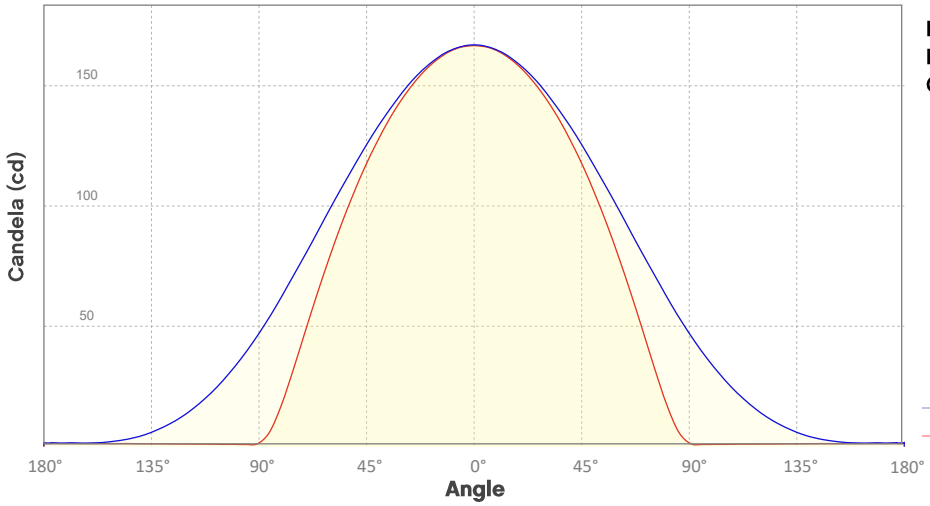
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	167	42	19	10	7	5	3	3	2	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	1	1	1	0	0
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	15	4	2	1	1	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

Well STX 180: Standard Optics – Warm White – 5 HR

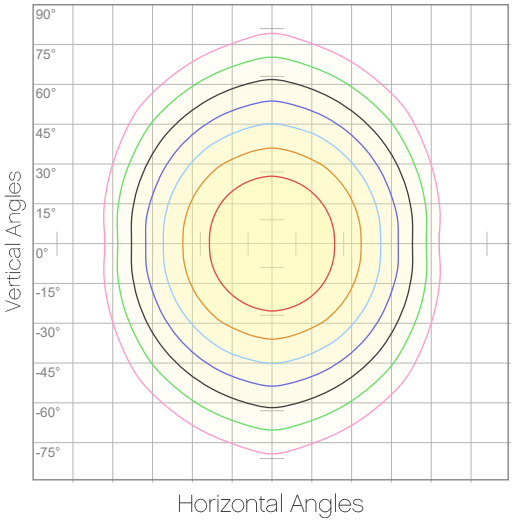
Candela Plot



Beam Angle (50%): 127.2°
Field Angle (10%): 201.6°
Cutoff Angle (3%): 240.7°

Horizontal Distribution
Vertical Distribution

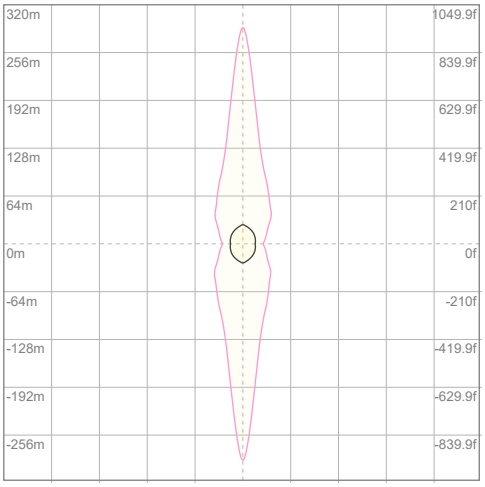
Polar Diagrams



iso-candela Diagram

10%	17 cd
20%	33 cd
30%	50 cd
40%	67 cd
50%	83 cd
60%	100 cd
70%	117 cd
80%	133 cd
90%	150 cd

Conditions:
Number of c-planes: 8
Candela at center: 167 cd



iso-illuminance Diagram

3%	50.0m lx
5%	83.4m lx
10%	0.167 lx
30%	0.500 lx
50%	0.834 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.67 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Warm White – 8 HR

Report Summary

Output

Total Lumens: 637 lm
Peak Intensity: 166 cd
Illuminance @ 5m: 7 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.5°
Horizontal Field Angle (10%): 161.8°
Vertical Field Angle (10%): 233.1°
Horizontal Cutoff Angle (3%): 174.9°
Vertical Cutoff Angle (3%): 281.2°

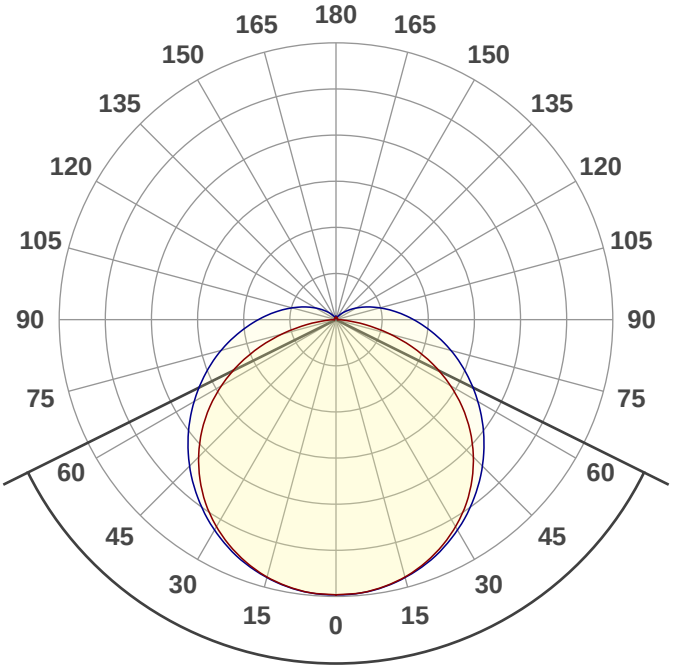
Conditions

AC Supply: 123 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

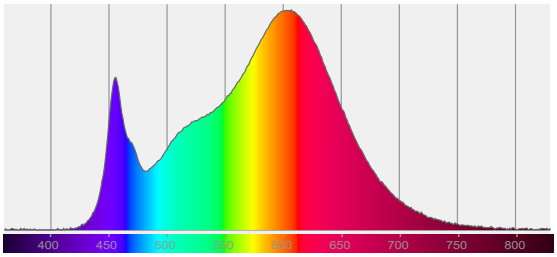
Overall Measurement

Angular Beam Distribution

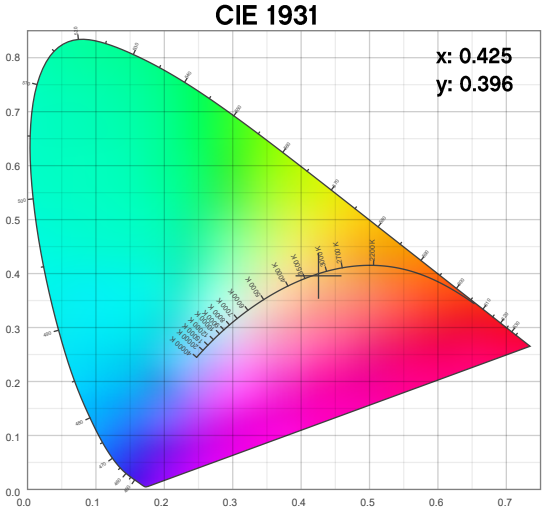


Beam Angle **127.2°**

Spectral Distribution



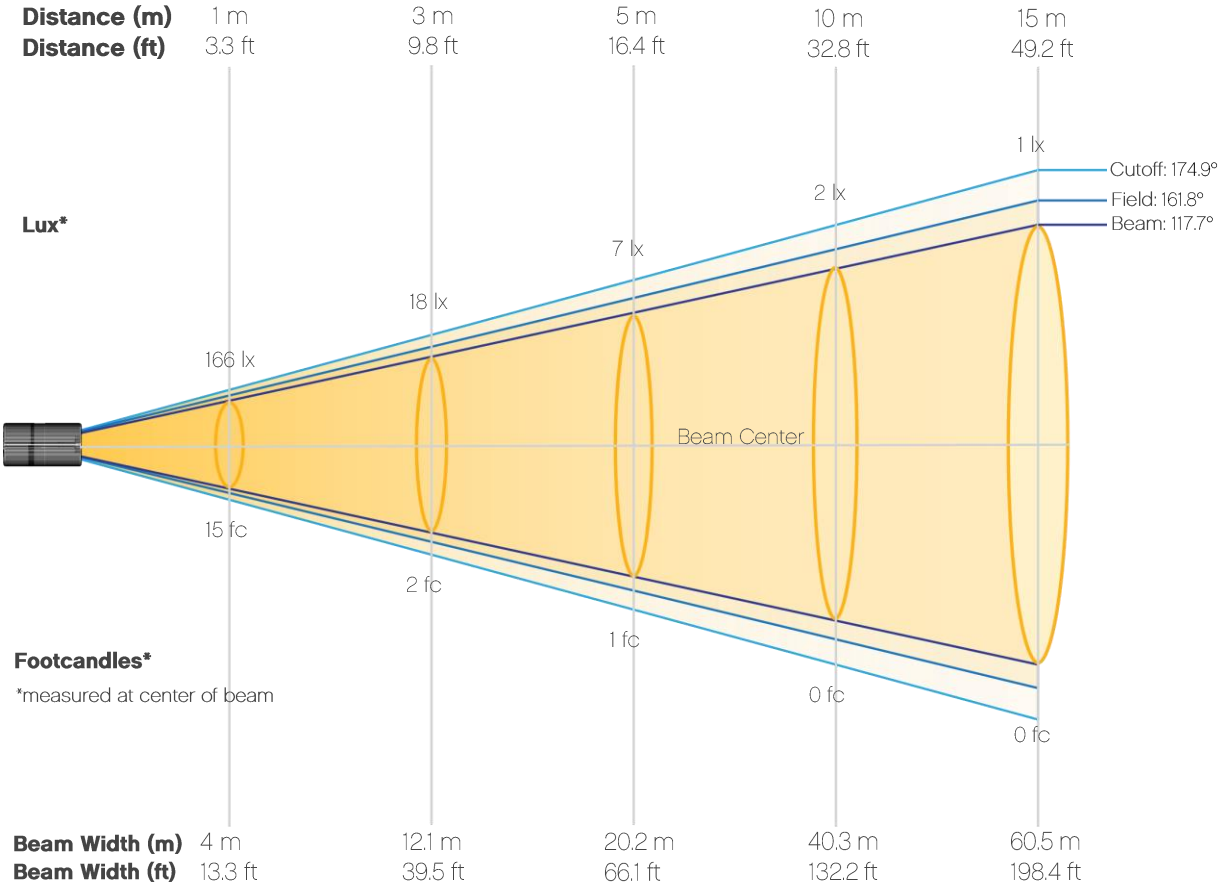
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Warm White – 8 HR

Beam Details



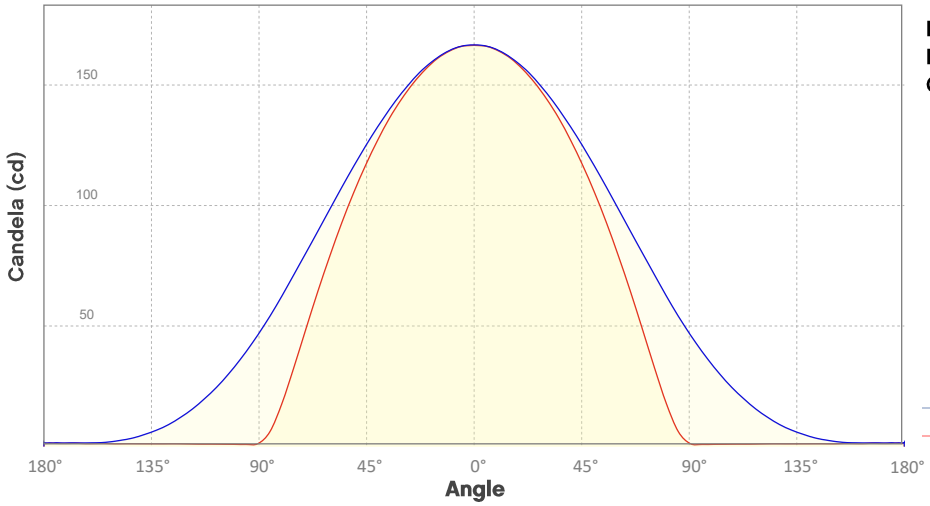
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	166	42	18	10	7	5	3	3	2	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	1	1	1	0	0
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	15	4	2	1	1	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

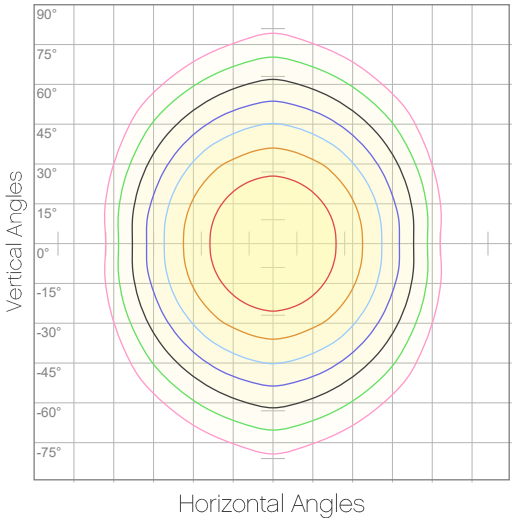
Well STX 180: Standard Optics – Warm White – 8 HR

Candela Plot



Beam Angle (50%): 127.2°
Field Angle (10%): 201.6°
Cutoff Angle (3%): 240.8°

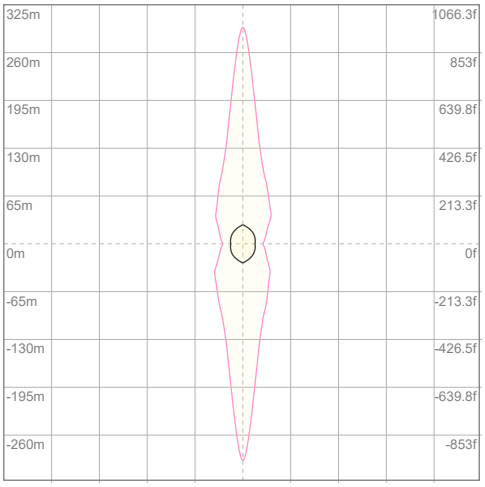
Polar Diagrams



iso-candela Diagram

10%	17 cd
20%	33 cd
30%	50 cd
40%	67 cd
50%	83 cd
60%	100 cd
70%	117 cd
80%	133 cd
90%	150 cd

Conditions:
Number of c-planes: 8
Candela at center: 166 cd



iso-illuminance Diagram

3%	49.9m lx
5%	83.2m lx
10%	0.166 lx
30%	0.499 lx
50%	0.832 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.66 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – Warm White – 12 HR

Report Summary

Output

Total Lumens: 639 lm
Peak Intensity: 167 cd
Illuminance @ 5m: 7 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.5°
Horizontal Field Angle (10%): 161.8°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 175°
Vertical Cutoff Angle (3%): 281.6°

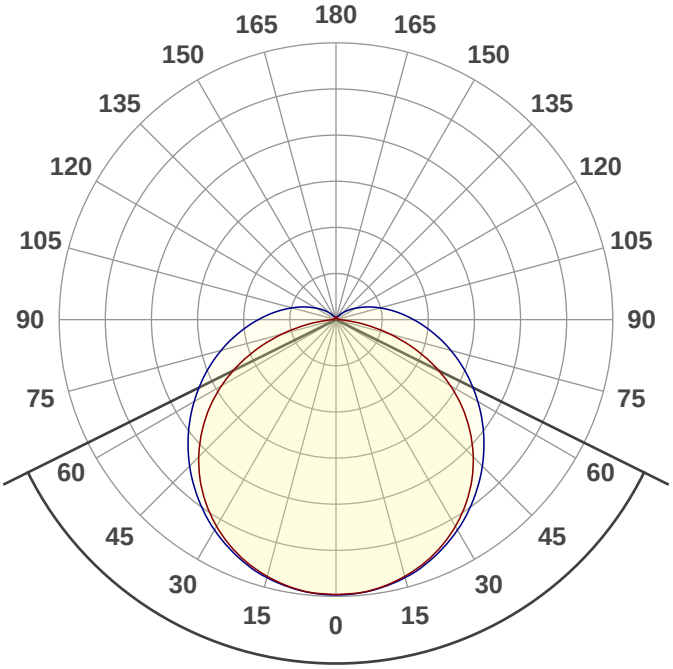
Conditions

AC Supply: 123 V, 60.1 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/8/2019 to LM-63-2002 Standards.

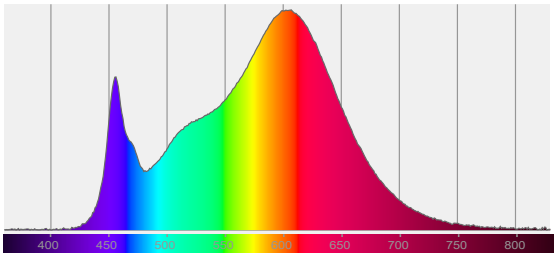
Overall Measurement

Angular Beam Distribution

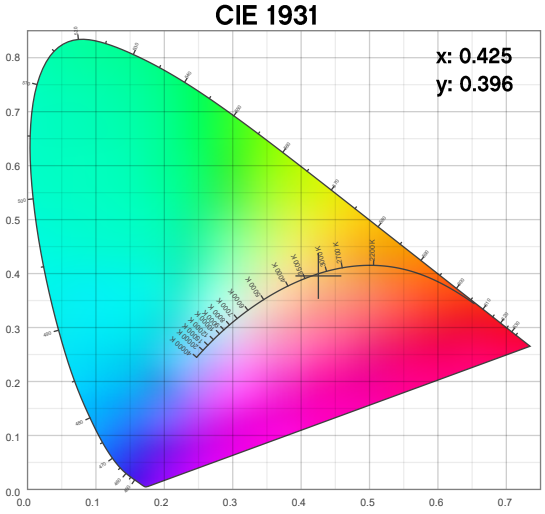


Beam Angle **127.2°**

Spectral Distribution



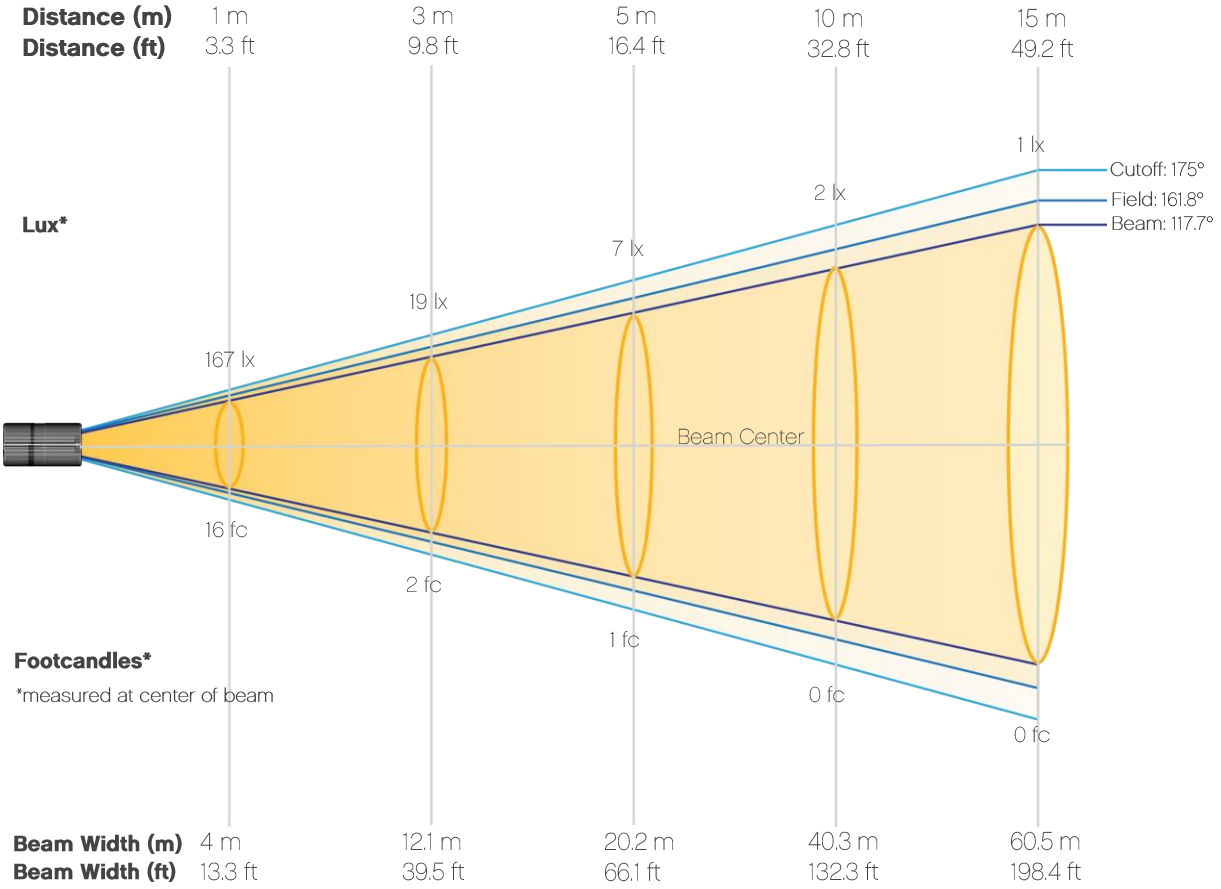
CIE 1931



Photometric Report

Well STX 180: Standard Optics – Warm White – 12 HR

Beam Details



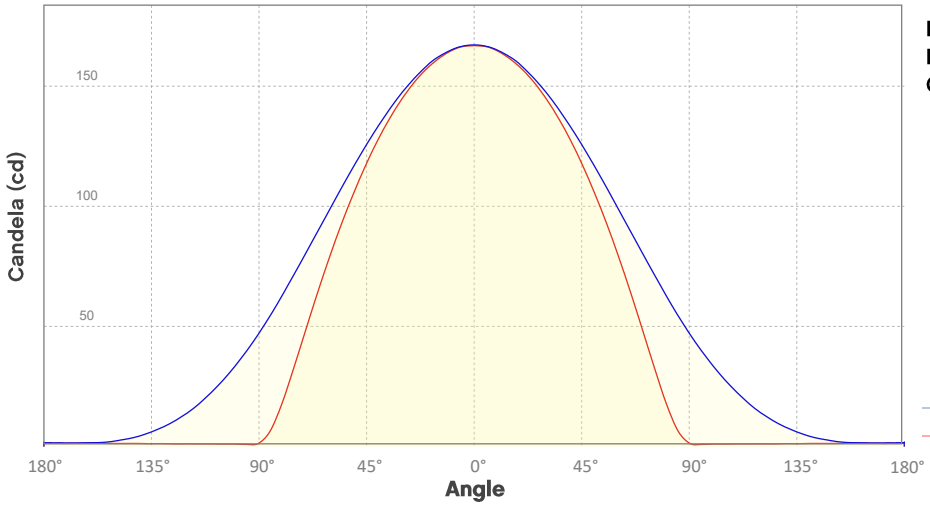
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	167	42	19	10	7	5	3	3	2	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	1	1	1	0	0
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	16	4	2	1	1	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

Well STX 180: Standard Optics – Warm White – 12 HR

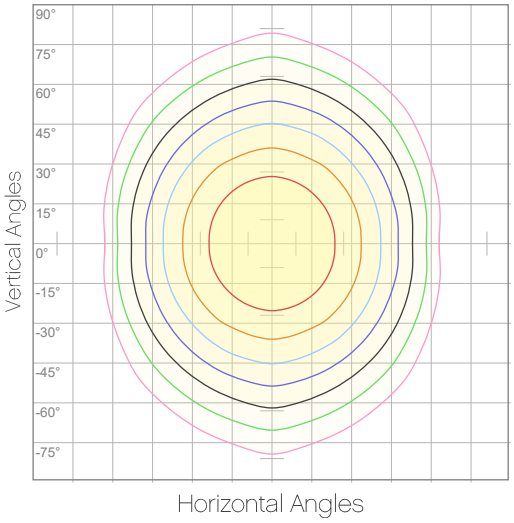
Candela Plot



Beam Angle (50%): 127.2°
Field Angle (10%): 201.6°
Cutoff Angle (3%): 241.1°

Horizontal Distribution
Vertical Distribution

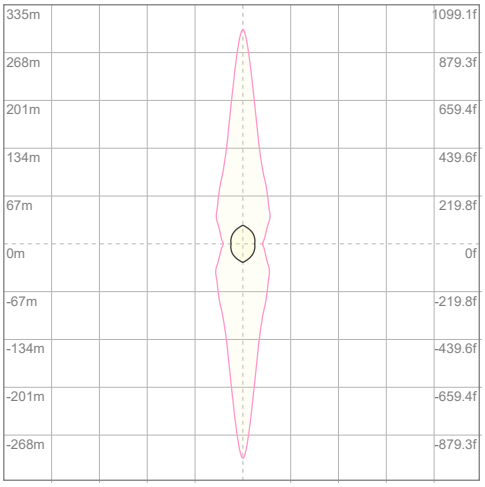
Polar Diagrams



iso-candela Diagram

10%	17 cd
20%	33 cd
30%	50 cd
40%	67 cd
50%	83 cd
60%	100 cd
70%	117 cd
80%	134 cd
90%	150 cd

Conditions:
Number of c-planes: 8
Candela at center: 167 cd



iso-illuminance Diagram

3%	50.1m lx
5%	83.5m lx
10%	0.167 lx
30%	0.501 lx
50%	0.835 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.67 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 2800K – 3 HR

Report Summary

Output

Total Lumens: 808 lm
Peak Intensity: 211 cd
Illuminance @ 5m: 8 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.7°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 174.6°
Vertical Cutoff Angle (3%): 280.1°

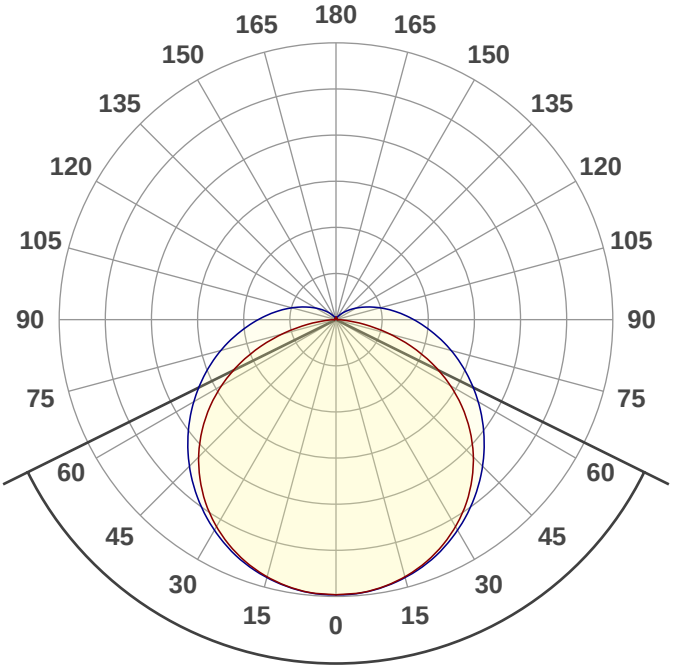
Conditions

AC Supply: 124 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

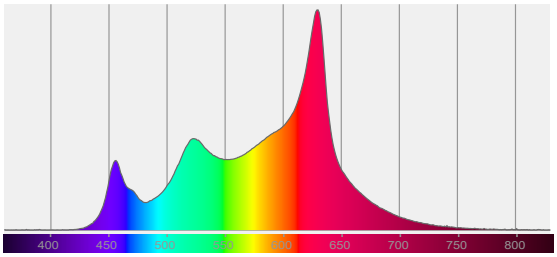
Overall Measurement

Angular Beam Distribution

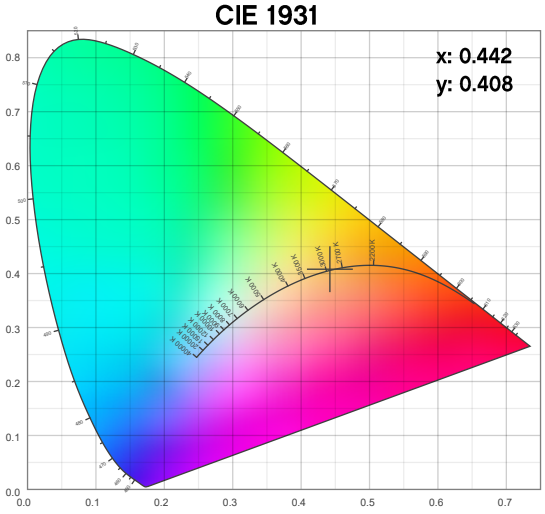


Beam Angle **127.3°**

Spectral Distribution



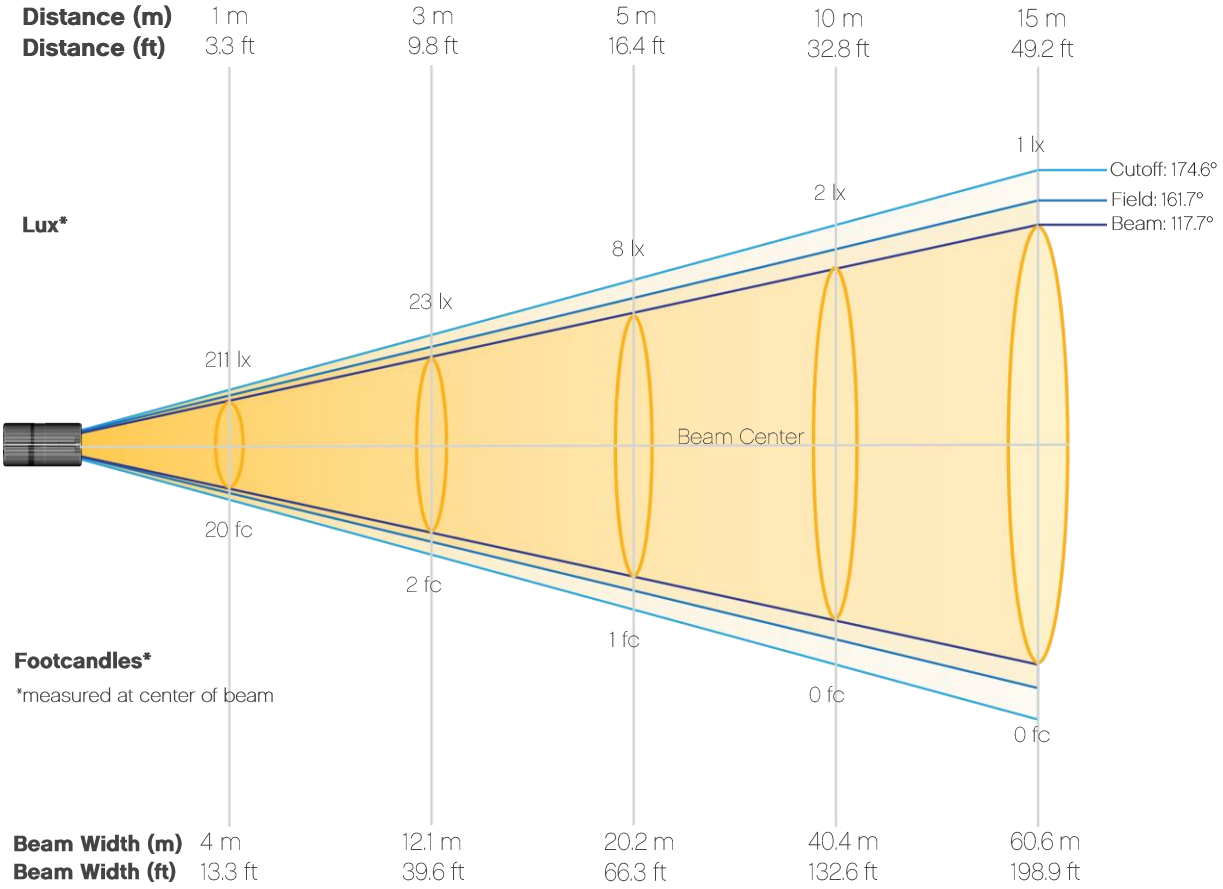
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 2800K – 3 HR

Beam Details



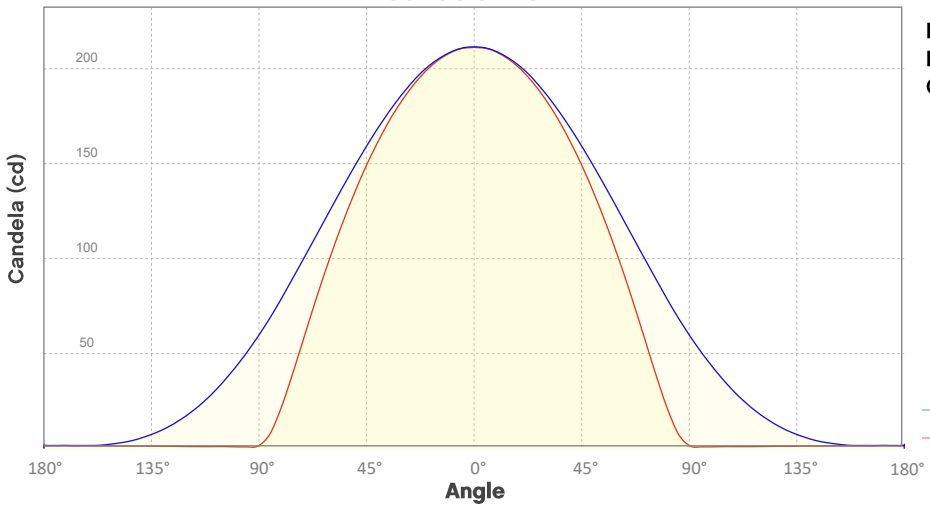
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	211	53	23	13	8	6	4	3	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	1	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	20	5	2	1	1	1	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

Well STX 180: Standard Optics – 2800K – 3 HR

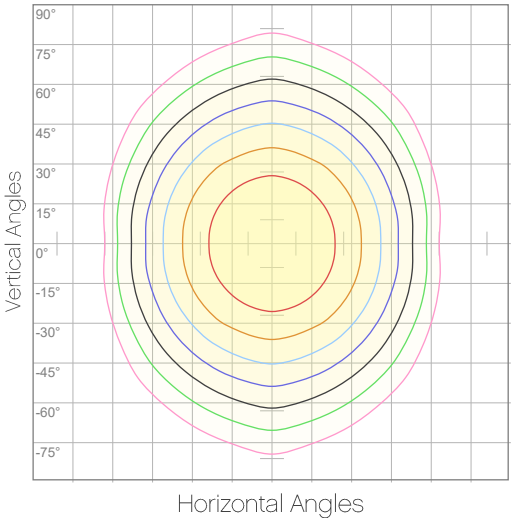
Candela Plot



Beam Angle (50%): 127.3°
Field Angle (10%): 201.5°
Cutoff Angle (3%): 239.9°

Horizontal Distribution
Vertical Distribution

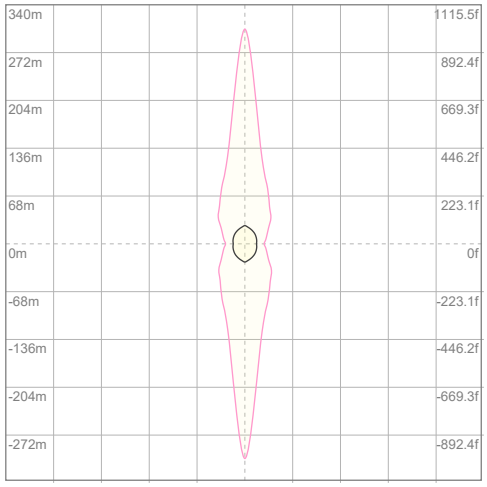
Polar Diagrams



iso-candela Diagram

10%	21 cd
20%	42 cd
30%	63 cd
40%	85 cd
50%	106 cd
60%	127 cd
70%	148 cd
80%	169 cd
90%	190 cd

Conditions:
Number of c-planes: 8
Candela at center: 211 cd



iso-illuminance Diagram

3%	63.4m lx
5%	0.106 lx
10%	0.211 lx
30%	0.634 lx
50%	1.06 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.11 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 2800K – 5 HR

Report Summary

Output

Total Lumens: 807 lm
Peak Intensity: 211 cd
Illuminance @ 5m: 8 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.6°
Vertical Beam Angle (50%): 137.8°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 174.5°
Vertical Cutoff Angle (3%): 279.9°

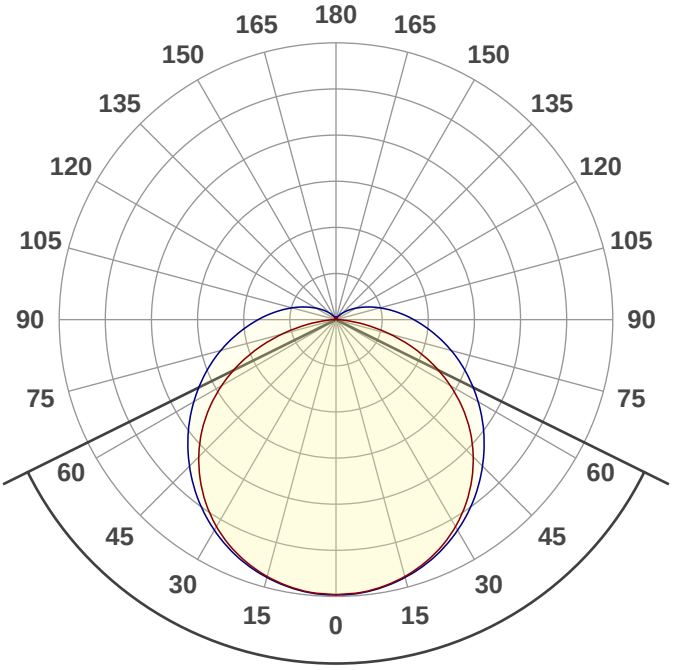
Conditions

AC Supply: 124 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

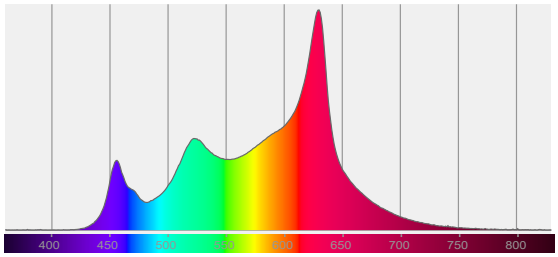
Overall Measurement

Angular Beam Distribution

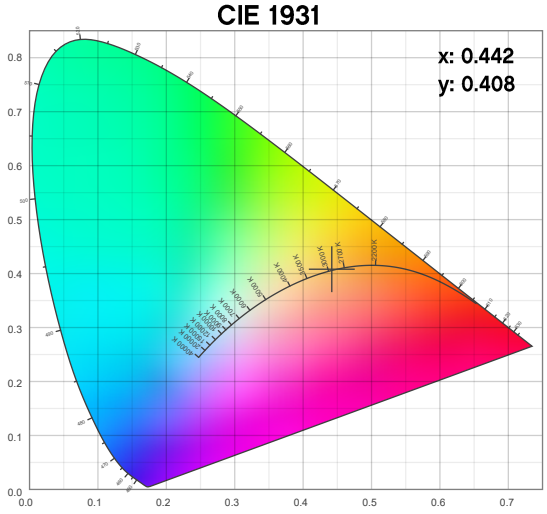


Beam Angle **127.4°**

Spectral Distribution



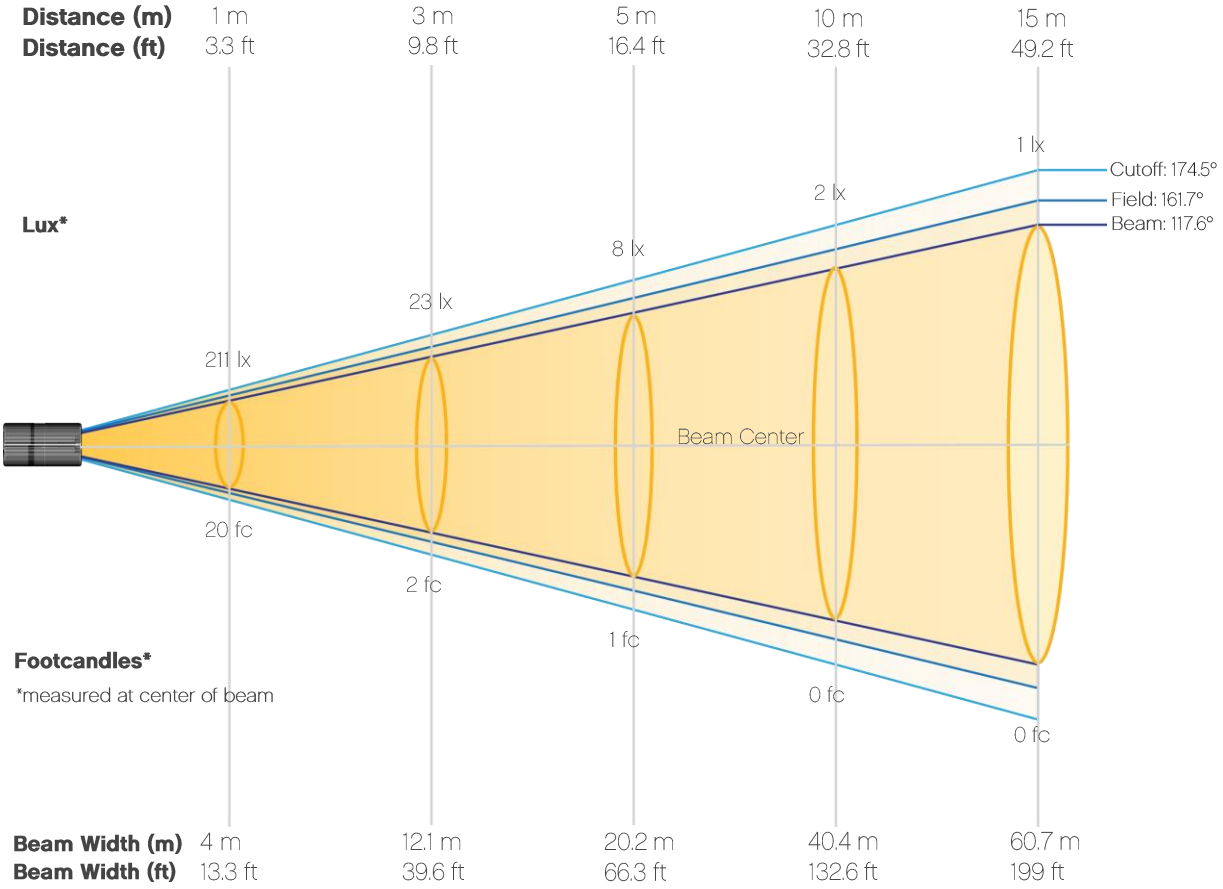
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 2800K – 5 HR

Beam Details



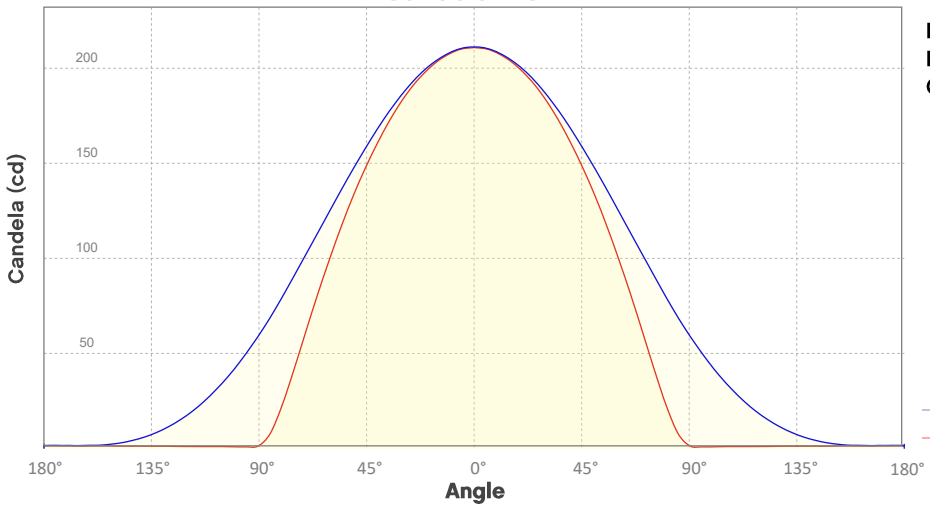
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	211	53	23	13	8	6	4	3	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	1	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	20	5	2	1	1	1	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

Well STX 180: Standard Optics – 2800K – 5 HR

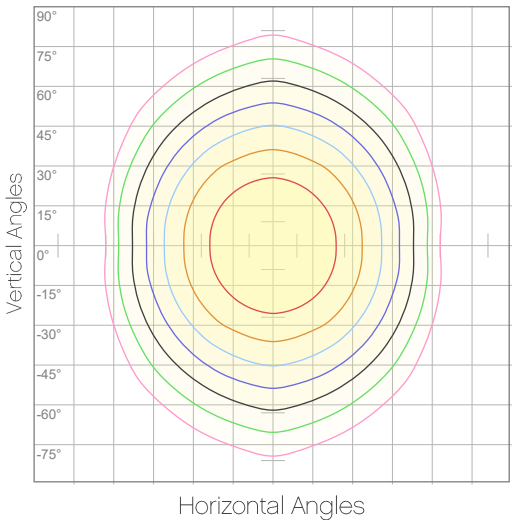
Candela Plot



Beam Angle (50%): 127.4°
Field Angle (10%): 201.5°
Cutoff Angle (3%): 239.8°

Horizontal Distribution
Vertical Distribution

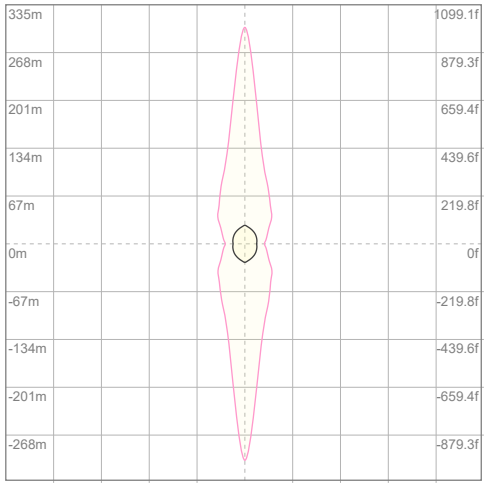
Polar Diagrams



iso-candela Diagram

10%	21 cd
20%	42 cd
30%	63 cd
40%	84 cd
50%	105 cd
60%	127 cd
70%	148 cd
80%	169 cd
90%	190 cd

Conditions:
Number of c-planes: 8
Candela at center: 211 cd



iso-illuminance Diagram

3%	63.3m lx
5%	0.105 lx
10%	0.211 lx
30%	0.633 lx
50%	1.05 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.11 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 2800K – 8 HR

Report Summary

Output

Total Lumens: 806 lm
Peak Intensity: 211 cd
Illuminance @ 5m: 8 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.7°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 174.6°
Vertical Cutoff Angle (3%): 279.9°

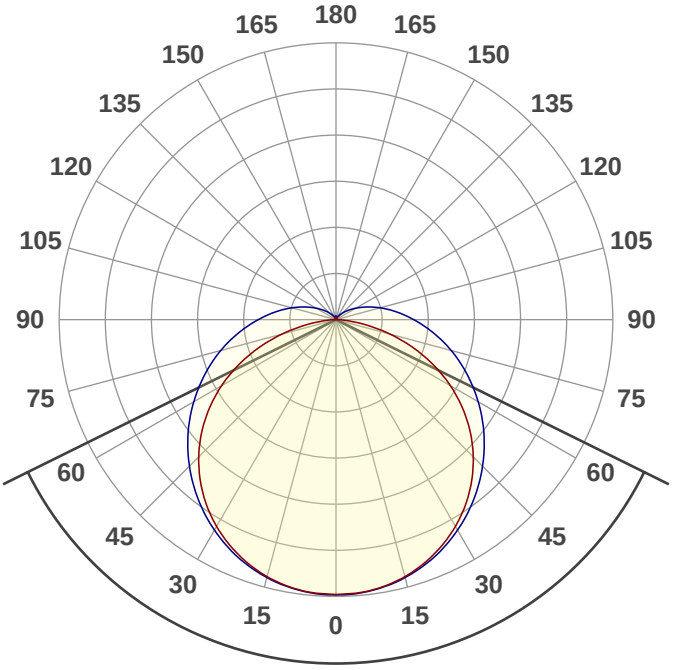
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

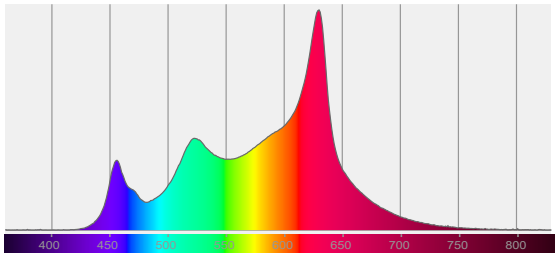
Overall Measurement

Angular Beam Distribution

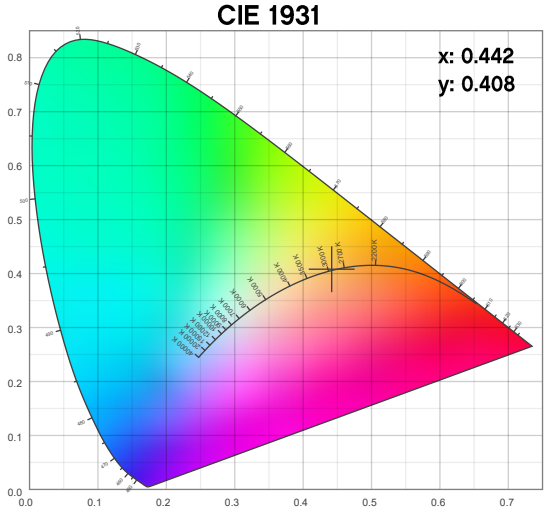


Beam Angle **127.4°**

Spectral Distribution



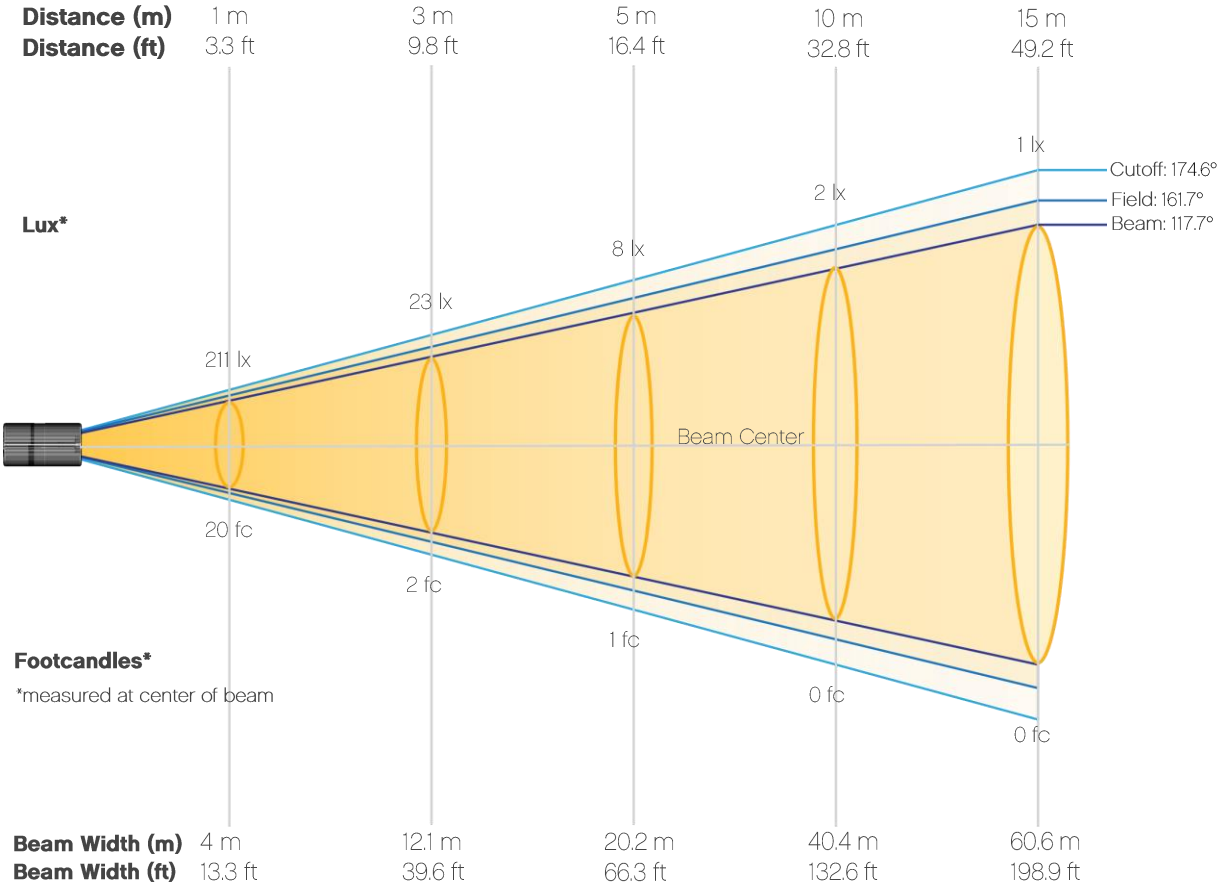
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 2800K – 8 HR

Beam Details



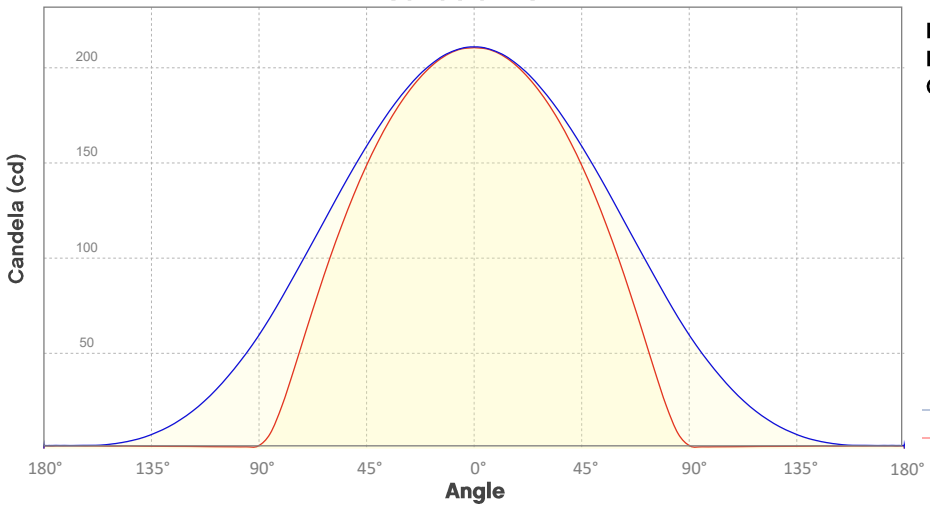
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	211	53	23	13	8	6	4	3	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	1	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	20	5	2	1	1	1	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

Well STX 180: Standard Optics – 2800K – 8 HR

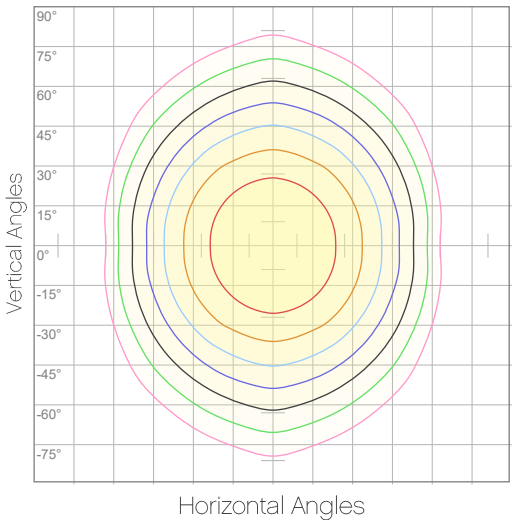
Candela Plot



Beam Angle (50%): 127.4°
Field Angle (10%): 201.5°
Cutoff Angle (3%): 239.8°

Horizontal Distribution
Vertical Distribution

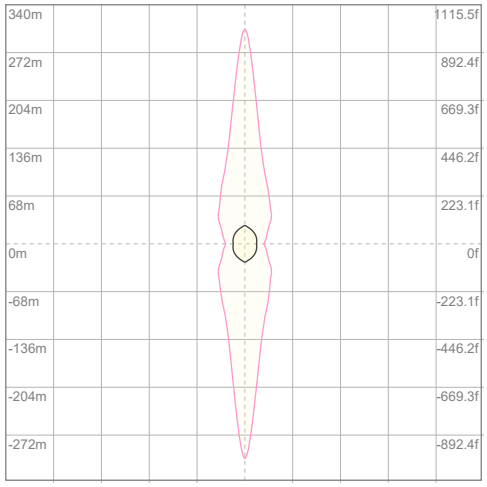
Polar Diagrams



iso-candela Diagram

10%	21 cd
20%	42 cd
30%	63 cd
40%	84 cd
50%	105 cd
60%	126 cd
70%	147 cd
80%	169 cd
90%	190 cd

Conditions:
Number of c-planes: 8
Candela at center: 211 cd



iso-illuminance Diagram

3%	63.2m lx
5%	0.105 lx
10%	0.211 lx
30%	0.632 lx
50%	1.05 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.11 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 2800K – 12 HR

Report Summary

Output

Total Lumens: 581 lm
Peak Intensity: 152 cd
Illuminance @ 5m: 6 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.6°
Vertical Beam Angle (50%): 137.6°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 232.6°
Horizontal Cutoff Angle (3%): 174.3°
Vertical Cutoff Angle (3%): 279.5°

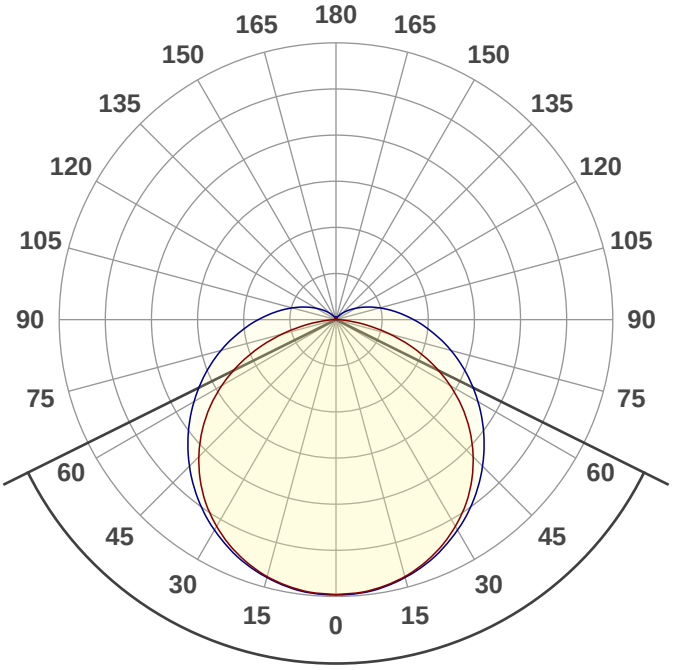
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

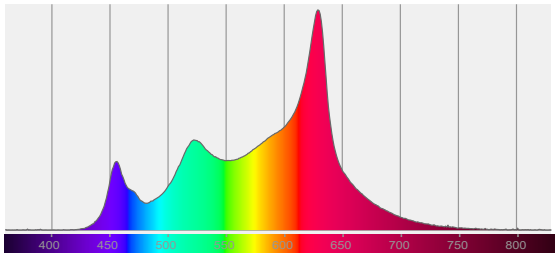
Overall Measurement

Angular Beam Distribution

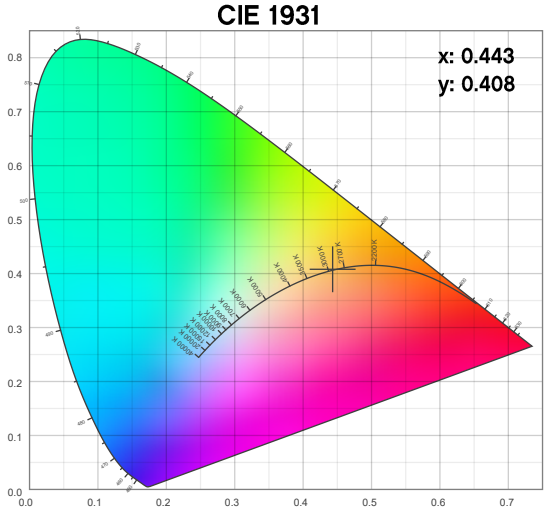


Beam Angle **127.2°**

Spectral Distribution



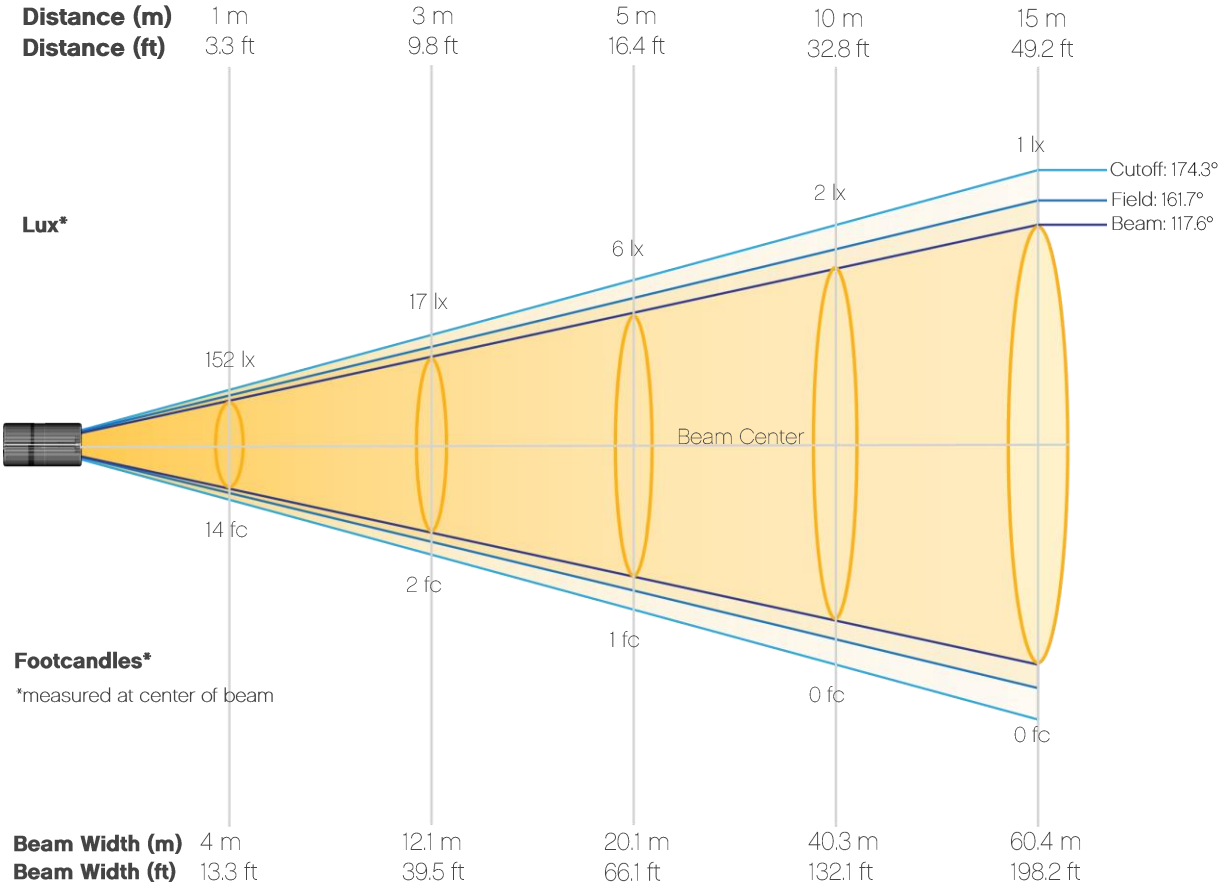
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 2800K – 12 HR

Beam Details



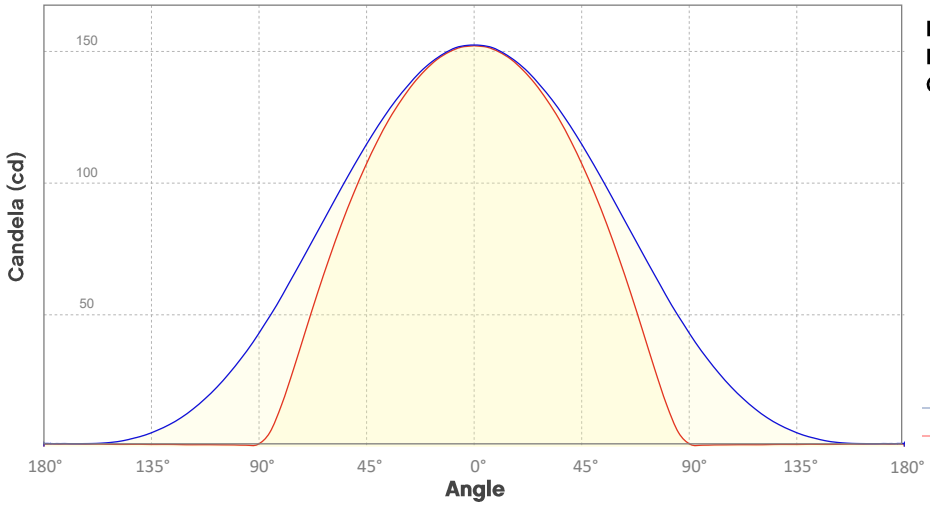
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	152	38	17	10	6	4	3	2	2	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	1	1	0	0	0
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	14	4	2	1	1	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

Well STX 180: Standard Optics – 2800K – 12 HR

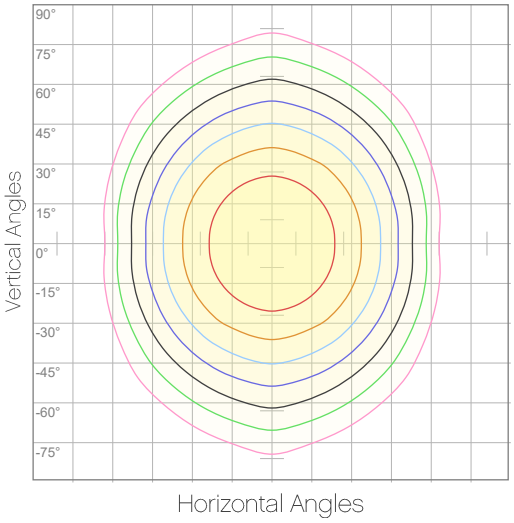
Candela Plot



Beam Angle (50%): 127.2°
Field Angle (10%): 201.3°
Cutoff Angle (3%): 239.5°

Horizontal Distribution
Vertical Distribution

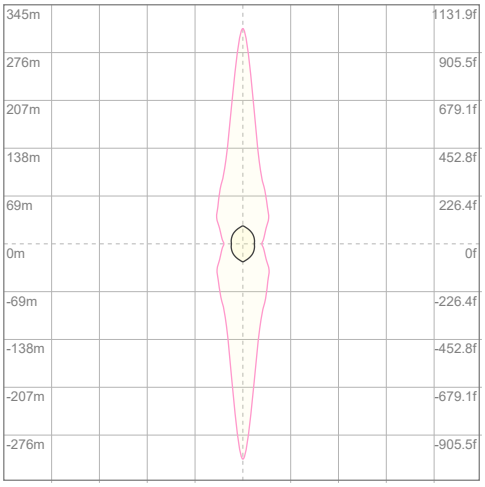
Polar Diagrams



iso-candela Diagram

10%	15 cd
20%	30 cd
30%	46 cd
40%	61 cd
50%	76 cd
60%	91 cd
70%	107 cd
80%	122 cd
90%	137 cd

Conditions:
Number of c-planes: 8
Candela at center: 152 cd



iso-illuminance Diagram

3%	45.7m lx
5%	76.1m lx
10%	0.152 lx
30%	0.457 lx
50%	0.761 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.52 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 3200K – 3 HR

Report Summary

Output

Total Lumens: 830 lm
Peak Intensity: 217 cd
Illuminance @ 5m: 9 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.8°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 233°
Horizontal Cutoff Angle (3%): 174.6°
Vertical Cutoff Angle (3%): 280.2°

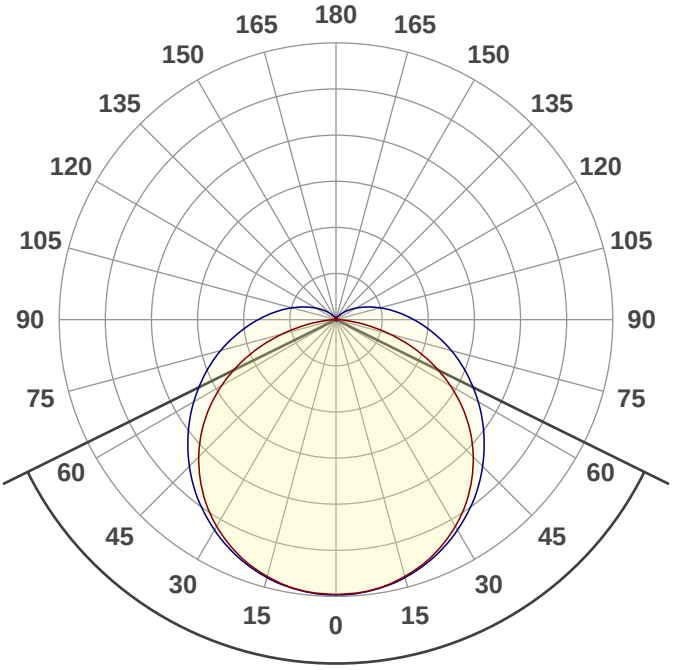
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

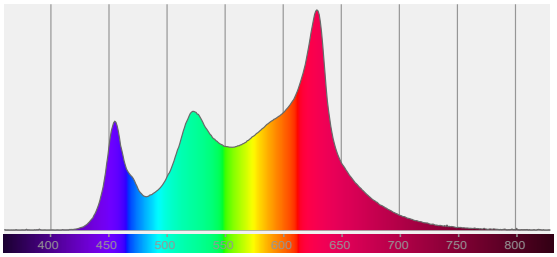
Overall Measurement

Angular Beam Distribution

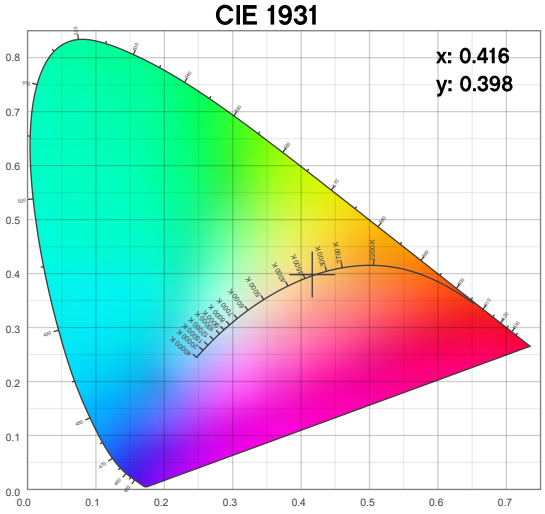


Beam Angle **127.4°**

Spectral Distribution



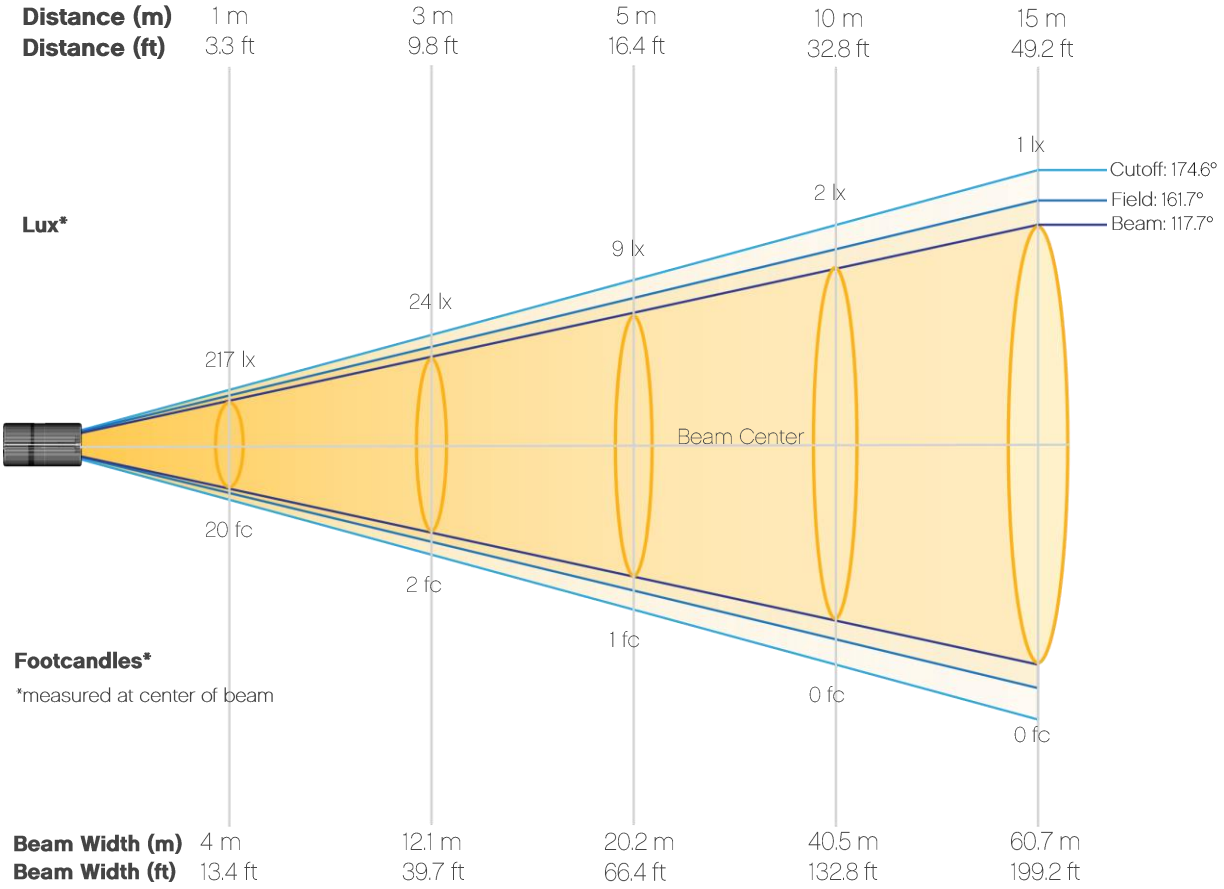
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 3200K – 3 HR

Beam Details



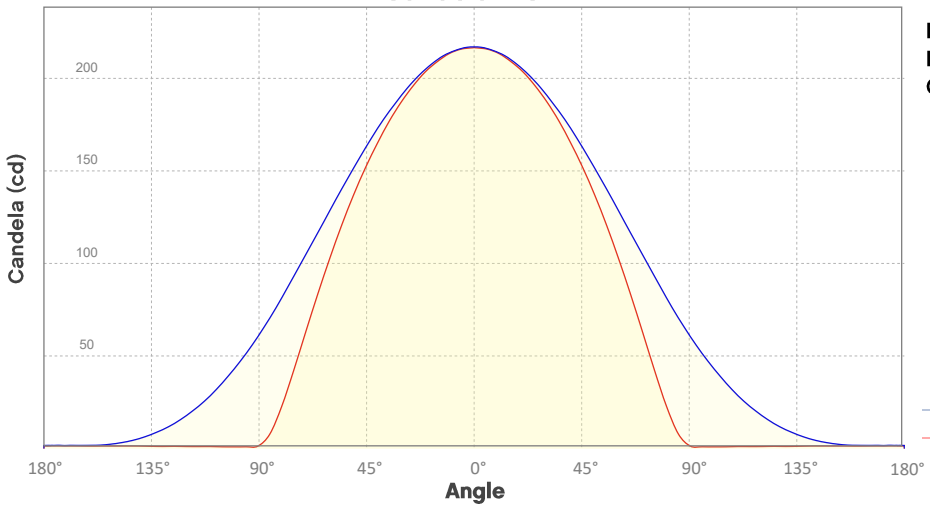
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	217	54	24	14	9	6	4	3	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	20	5	2	1	1	1	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

Well STX 180: Standard Optics – 3200K – 3 HR

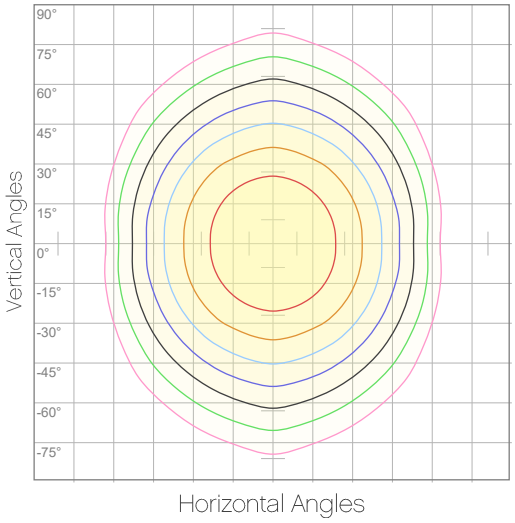
Candela Plot



Beam Angle (50%): 127.4°
Field Angle (10%): 201.5°
Cutoff Angle (3%): 239.8°

Horizontal Distribution
Vertical Distribution

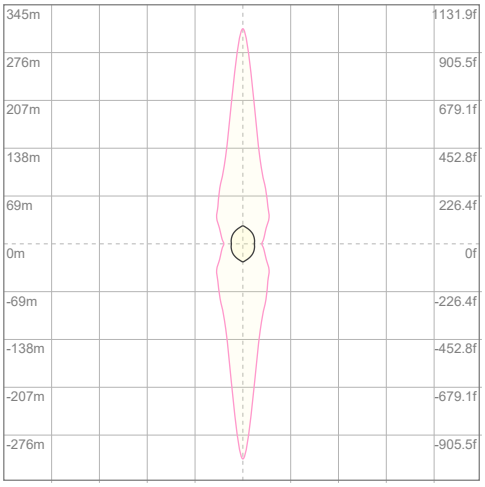
Polar Diagrams



iso-candela Diagram

10%	22 cd
20%	43 cd
30%	65 cd
40%	87 cd
50%	108 cd
60%	130 cd
70%	152 cd
80%	173 cd
90%	195 cd

Conditions:
Number of c-planes: 8
Candela at center: 217 cd



iso-illuminance Diagram

3%	65.0m lx
5%	0.108 lx
10%	0.217 lx
30%	0.650 lx
50%	1.08 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.17 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 3200K – 5 HR

Report Summary

Output

Total Lumens: 829 lm
Peak Intensity: 217 cd
Illuminance @ 5m: 9 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.7°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 233°
Horizontal Cutoff Angle (3%): 174.6°
Vertical Cutoff Angle (3%): 279.9°

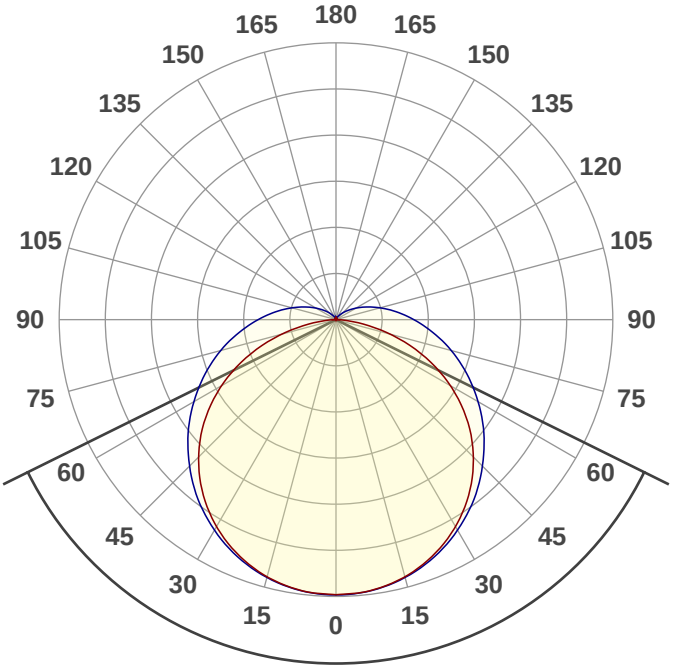
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

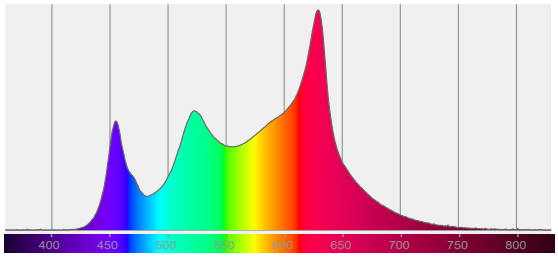
Overall Measurement

Angular Beam Distribution

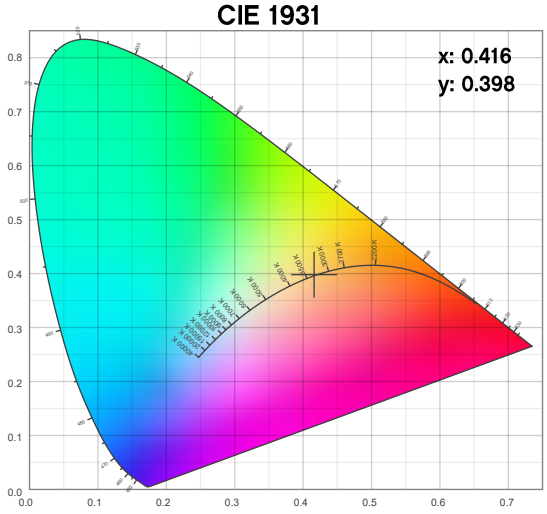


Beam Angle **127.3°**

Spectral Distribution



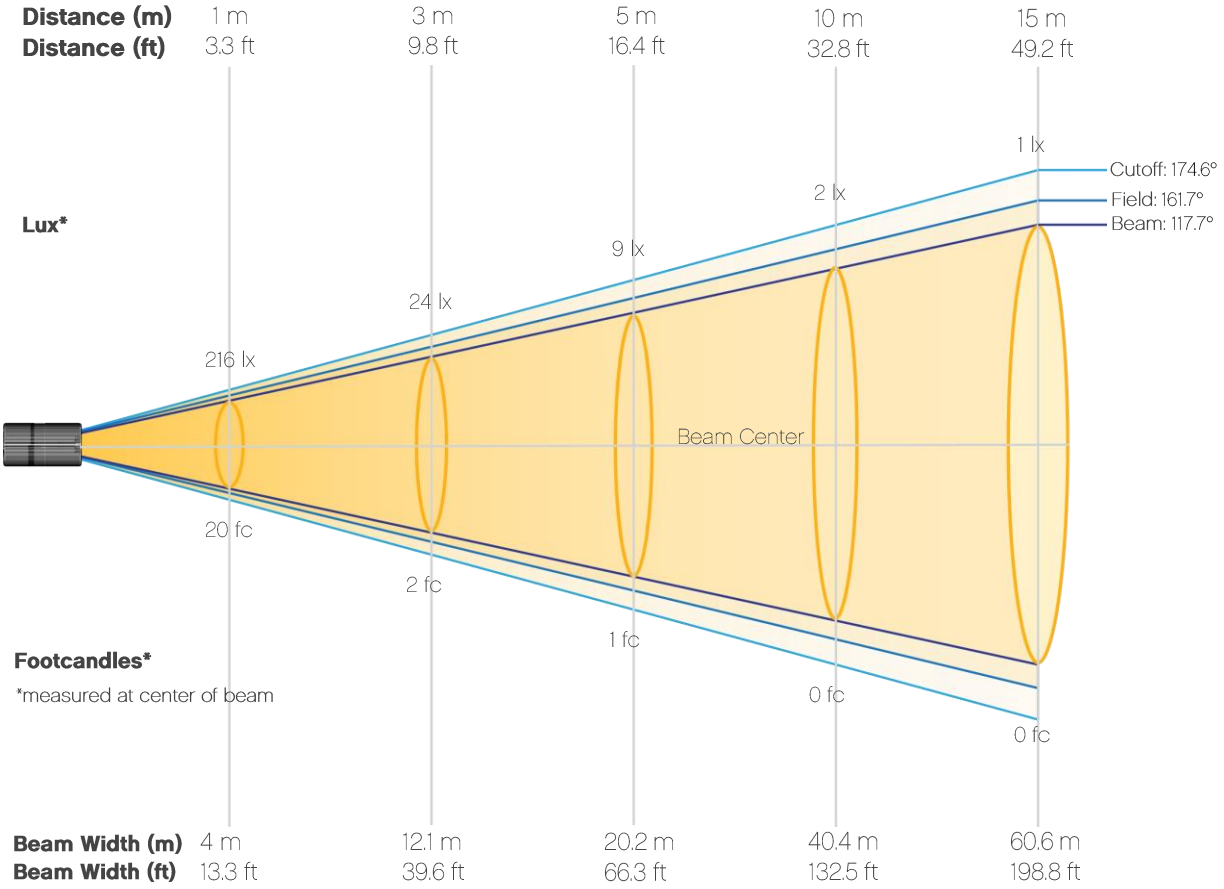
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 3200K – 5 HR

Beam Details



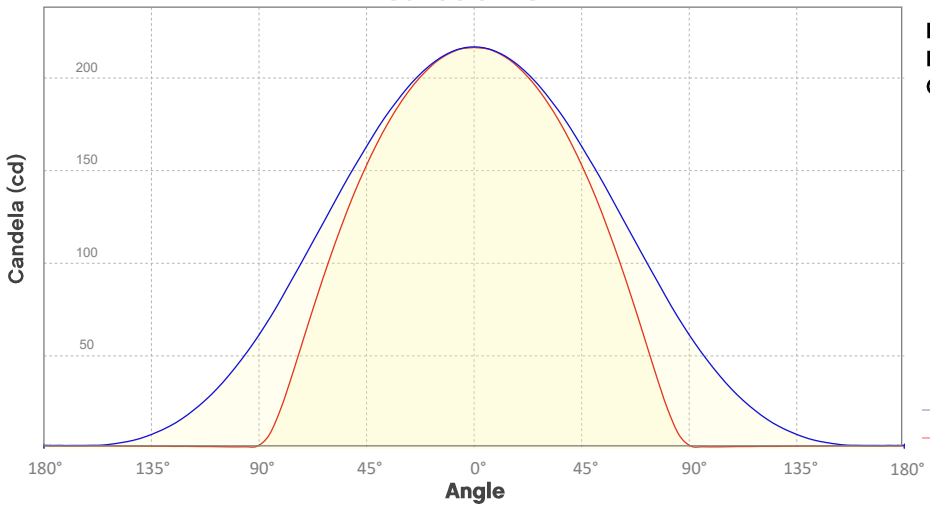
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	216	54	24	14	9	6	4	3	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	20	5	2	1	1	1	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

Well STX 180: Standard Optics – 3200K – 5 HR

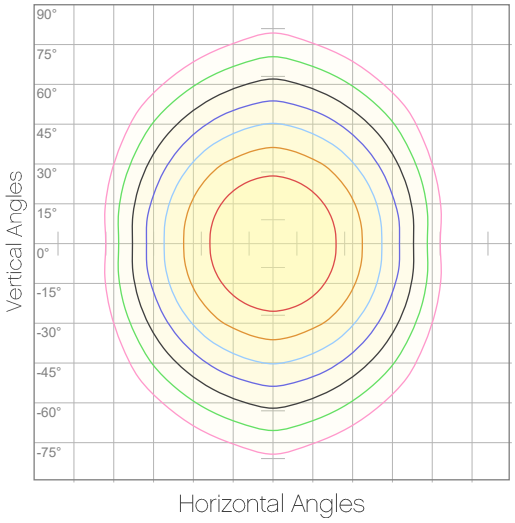
Candela Plot



Beam Angle (50%): 127.3°
Field Angle (10%): 201.5°
Cutoff Angle (3%): 239.8°

Horizontal Distribution
Vertical Distribution

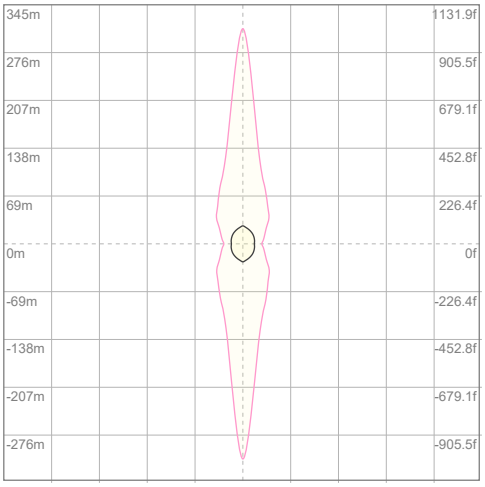
Polar Diagrams



iso-candela Diagram

10%	22 cd
20%	43 cd
30%	65 cd
40%	87 cd
50%	108 cd
60%	130 cd
70%	152 cd
80%	173 cd
90%	195 cd

Conditions:
Number of c-planes: 8
Candela at center: 216 cd



iso-illuminance Diagram

3%	64.9m lx
5%	0.108 lx
10%	0.216 lx
30%	0.649 lx
50%	1.08 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.16 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 3200K – 8 HR

Report Summary

Output

Total Lumens: 827 lm
Peak Intensity: 216 cd
Illuminance @ 5m: 9 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.8°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 174.6°
Vertical Cutoff Angle (3%): 279.7°

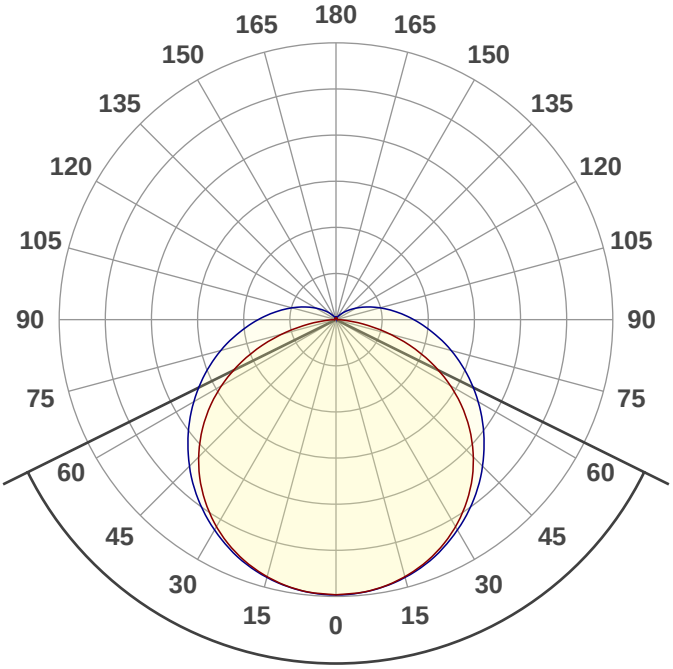
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

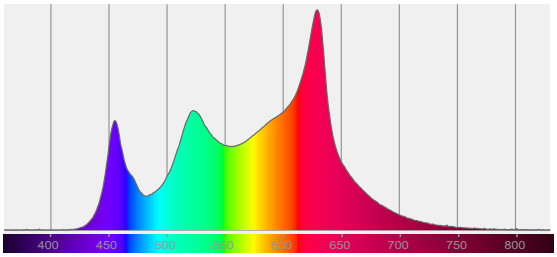
Overall Measurement

Angular Beam Distribution

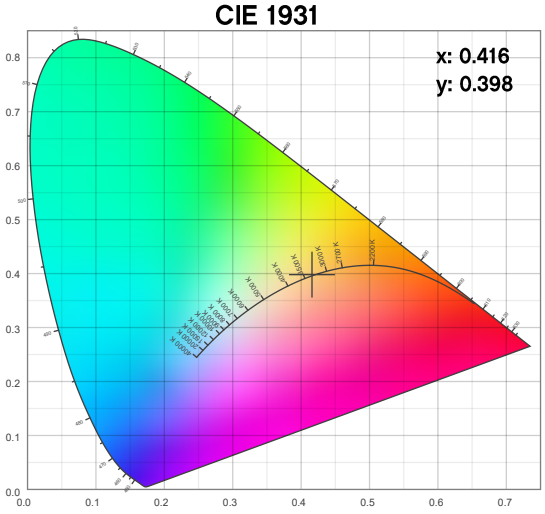


Beam Angle **127.3°**

Spectral Distribution



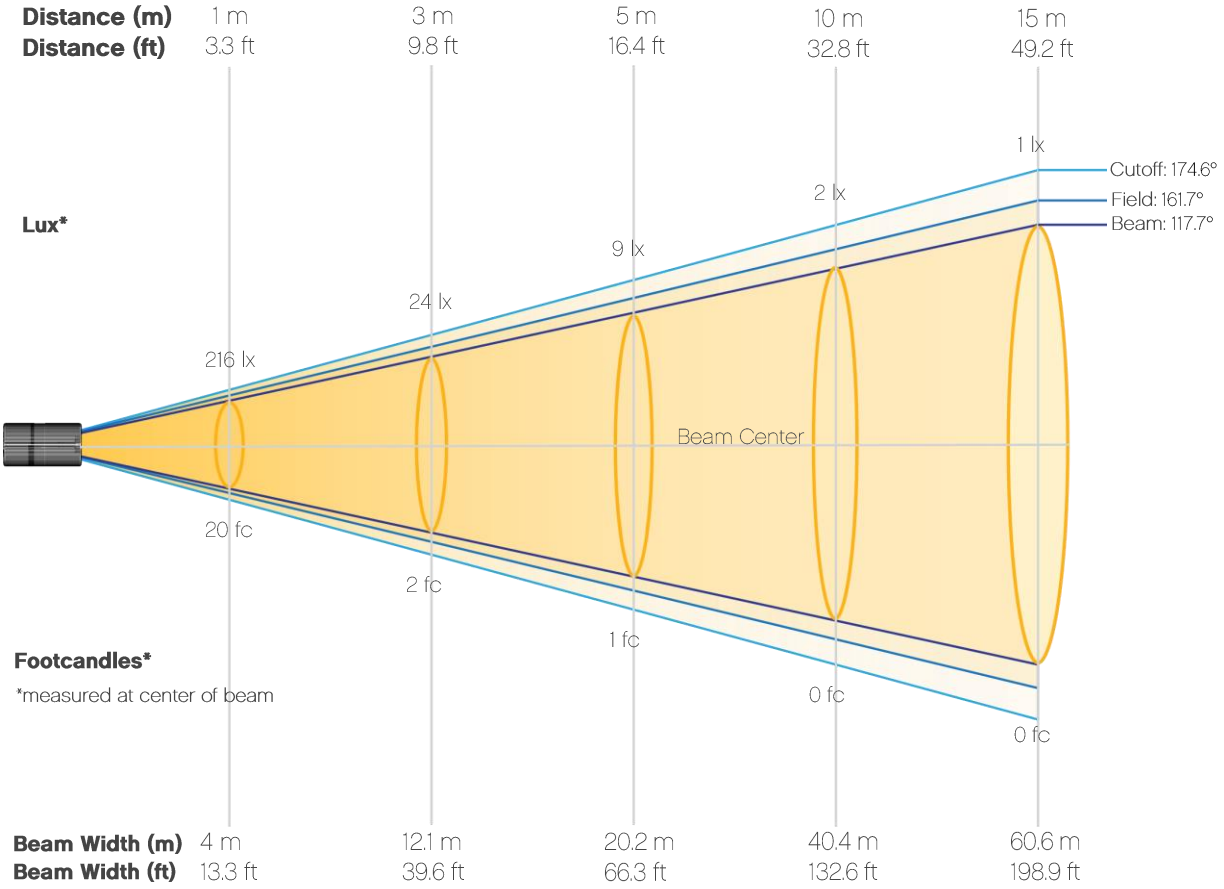
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 3200K – 8 HR

Beam Details



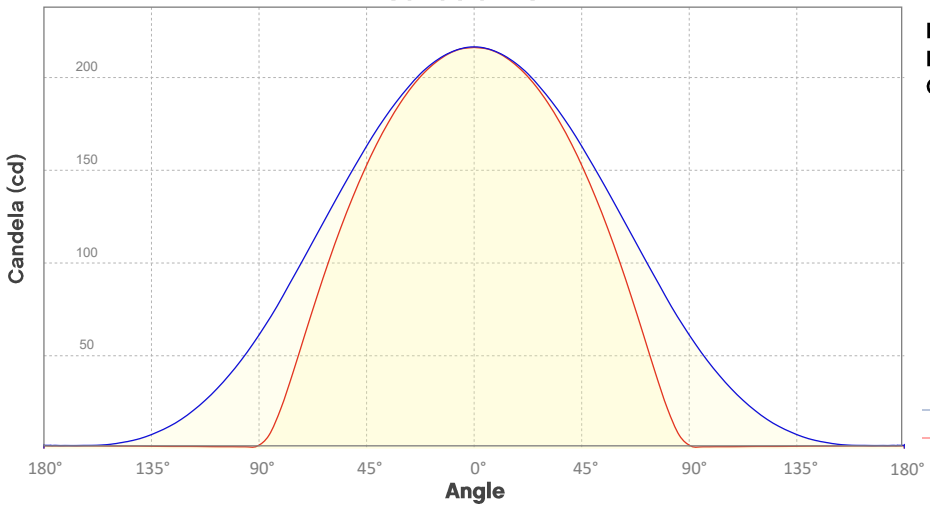
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	216	54	24	14	9	6	4	3	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	20	5	2	1	1	1	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

Well STX 180: Standard Optics – 3200K – 8 HR

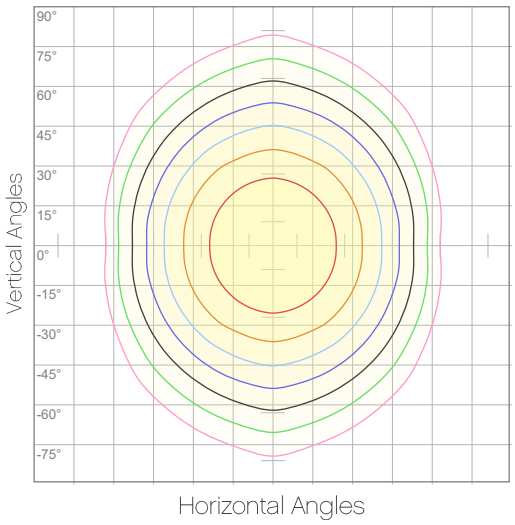
Candela Plot



Beam Angle (50%): 127.3°
Field Angle (10%): 201.5°
Cutoff Angle (3%): 239.8°

Horizontal Distribution
Vertical Distribution

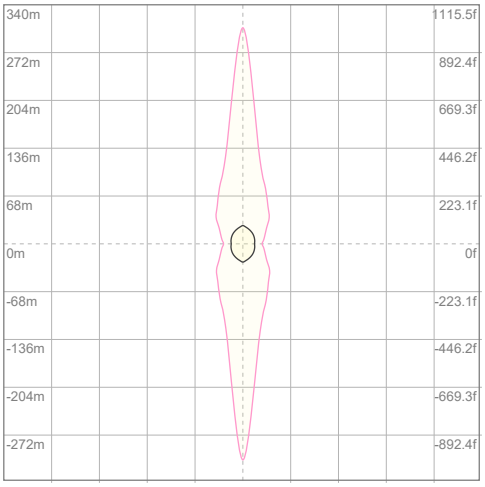
Polar Diagrams



iso-candela Diagram

10%	22 cd
20%	43 cd
30%	65 cd
40%	86 cd
50%	108 cd
60%	130 cd
70%	151 cd
80%	173 cd
90%	195 cd

Conditions:
Number of c-planes: 8
Candela at center: 216 cd



iso-illuminance Diagram

3%	64.8m lx
5%	0.108 lx
10%	0.216 lx
30%	0.648 lx
50%	1.08 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.16 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 3200K – 12 HR

Report Summary

Output

Total Lumens: 504 lm
Peak Intensity: 132 cd
Illuminance @ 5m: 5 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.8°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 173.8°
Vertical Cutoff Angle (3%): 279.4°

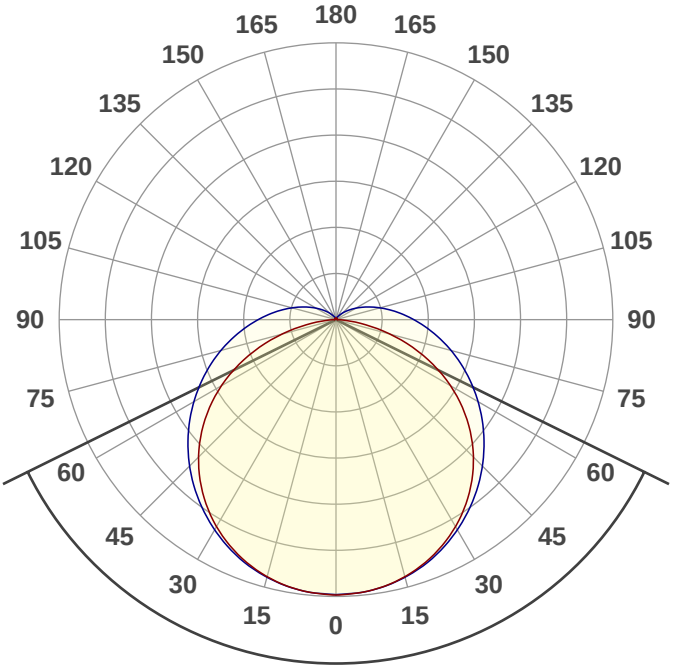
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

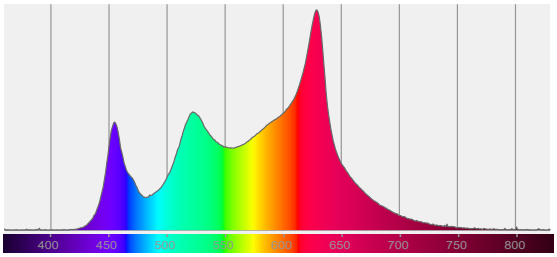
Overall Measurement

Angular Beam Distribution

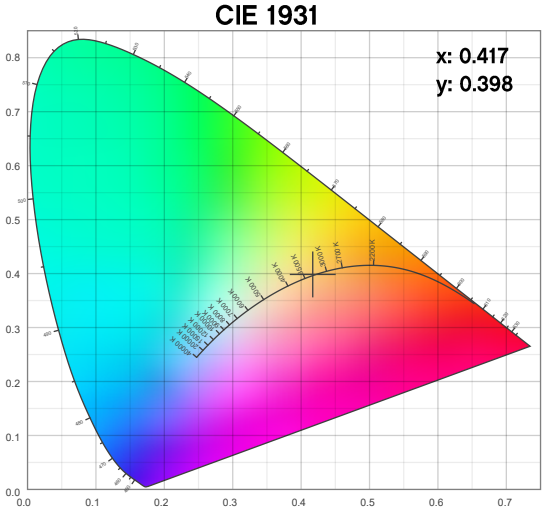


Beam Angle **127.4°**

Spectral Distribution



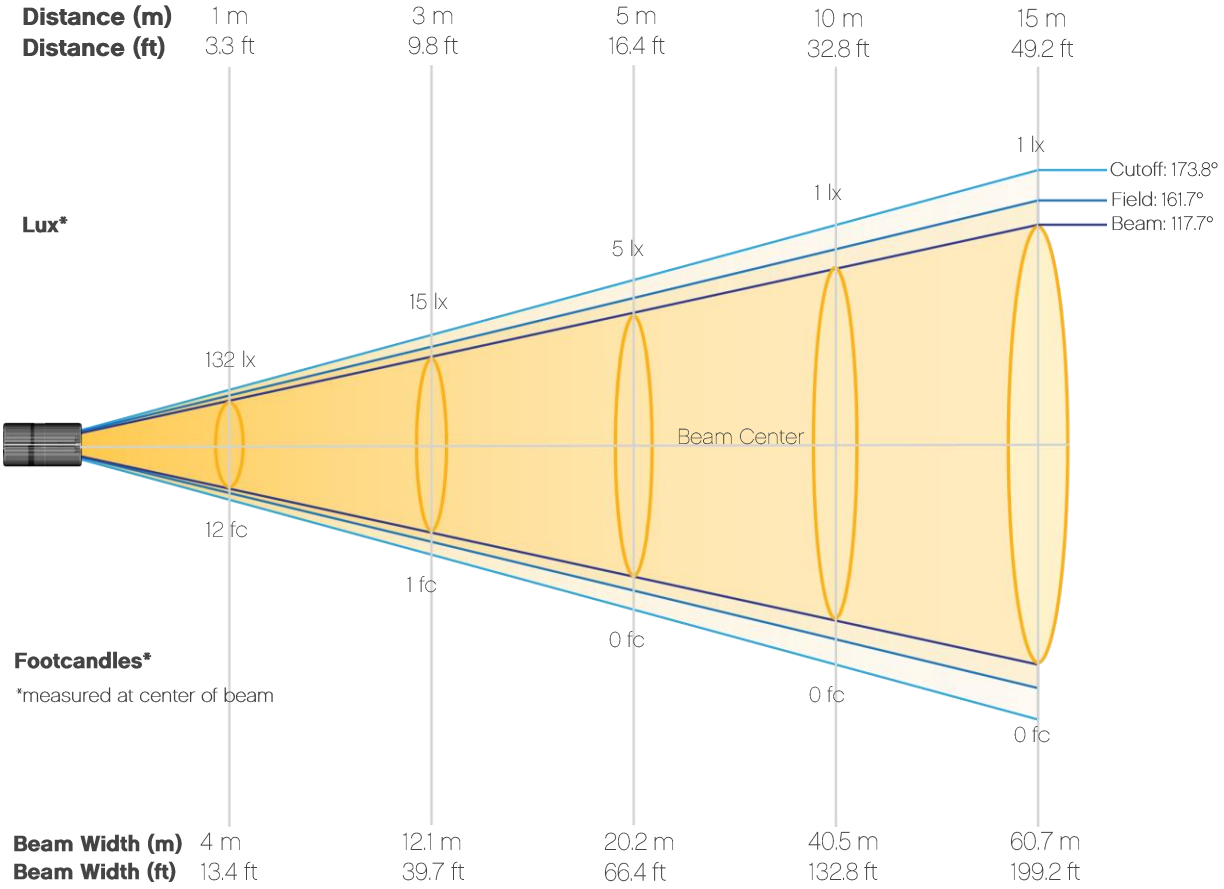
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 3200K – 12 HR

Beam Details



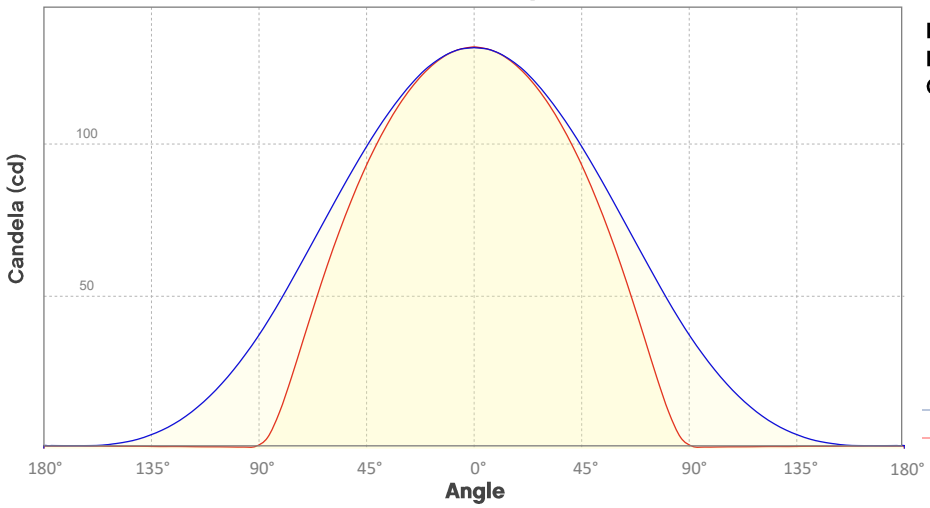
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	132	33	15	8	5	4	3	2	2	1
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	1	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	12	3	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

Well STX 180: Standard Optics – 3200K – 12 HR

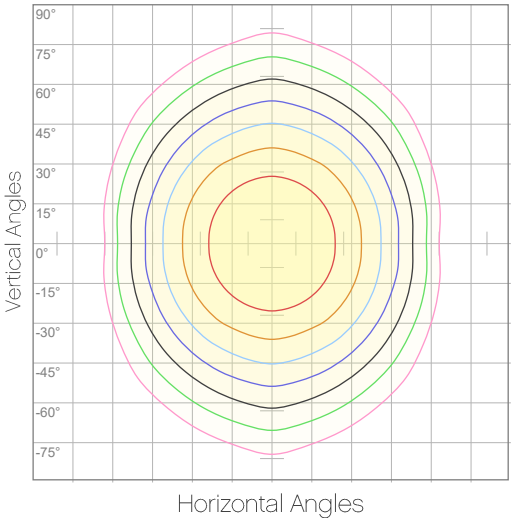
Plot



Beam Angle (50%): 127.4°
Field Angle (10%): 201.6°
Cutoff Angle (3%): 239.2°

Horizontal Distribution
Vertical Distribution

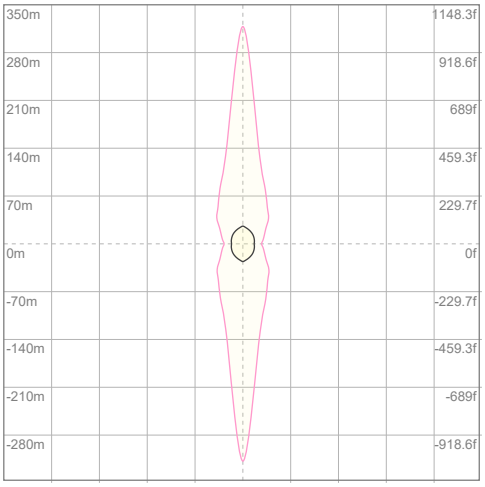
Polar Diagrams



iso-candela Diagram

10%	13 cd
20%	26 cd
30%	39 cd
40%	53 cd
50%	66 cd
60%	79 cd
70%	92 cd
80%	105 cd
90%	118 cd

Conditions:
Number of c-planes: 8
Candela at center: 132 cd



iso-illuminance Diagram

3%	39.5m lx
5%	65.8m lx
10%	0.132 lx
30%	0.395 lx
50%	0.658 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.32 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 4000K – 3 HR

Report Summary

Output

Total Lumens: 863 lm
Peak Intensity: 225 cd
Illuminance @ 5m: 9 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.8°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 174.6°
Vertical Cutoff Angle (3%): 280°

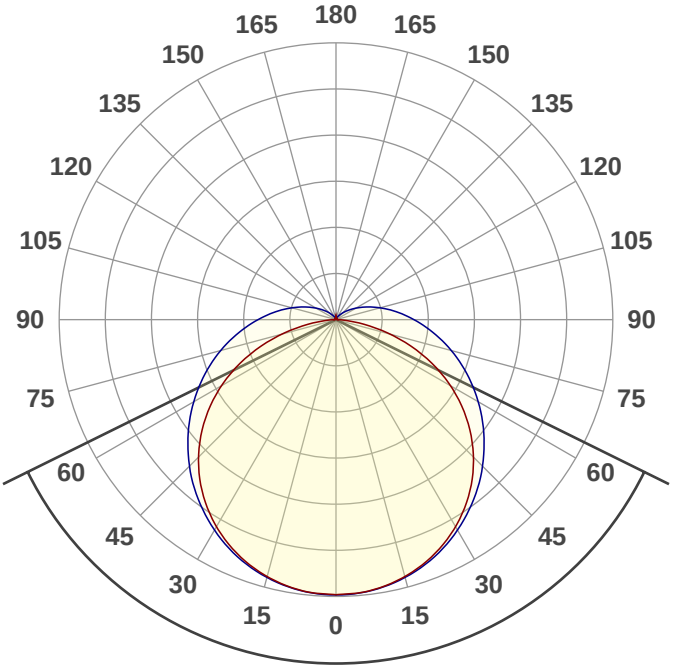
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

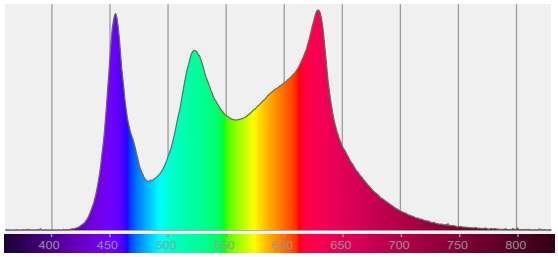
Overall Measurement

Angular Beam Distribution

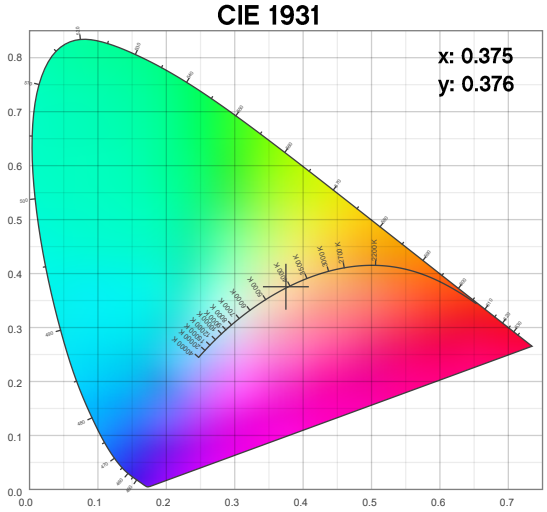


Beam Angle **127.4°**

Spectral Distribution



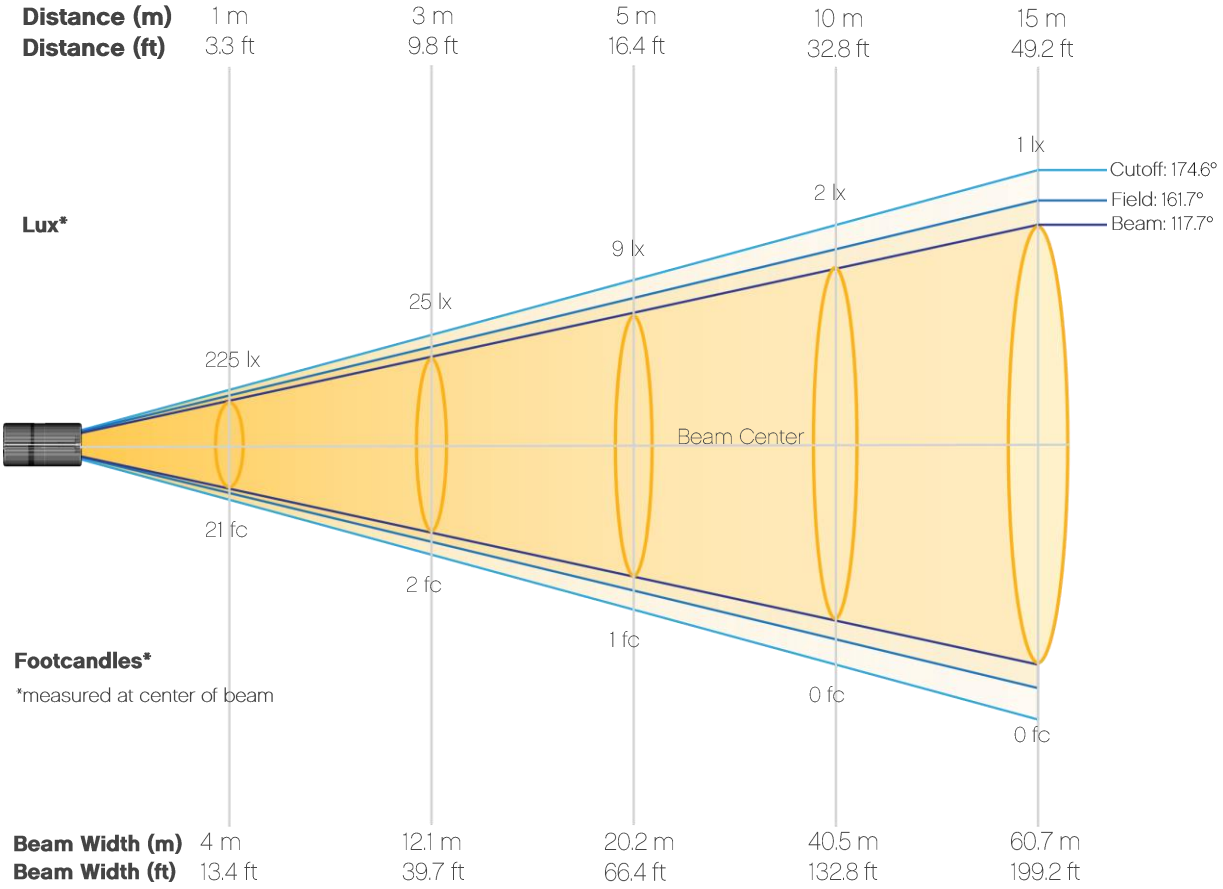
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 4000K – 3 HR

Beam Details



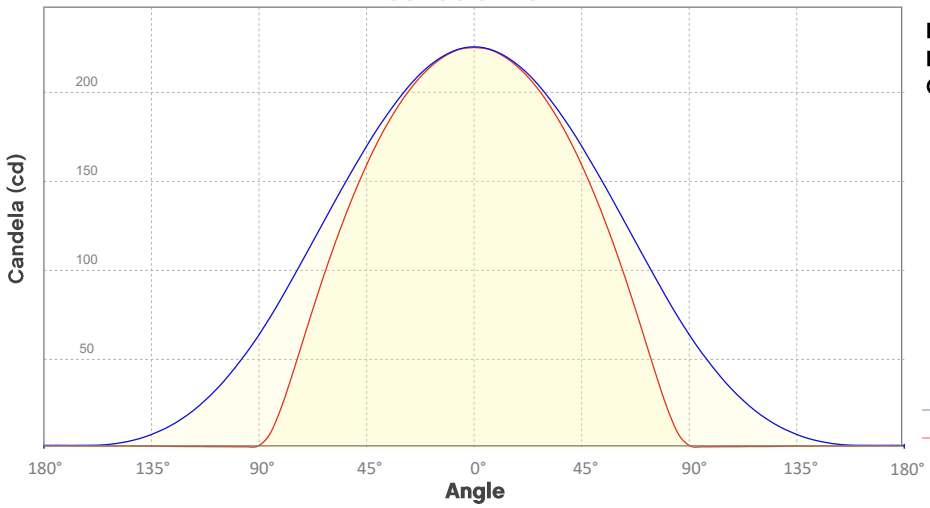
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	225	56	25	14	9	6	5	4	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	21	5	2	1	1	1	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

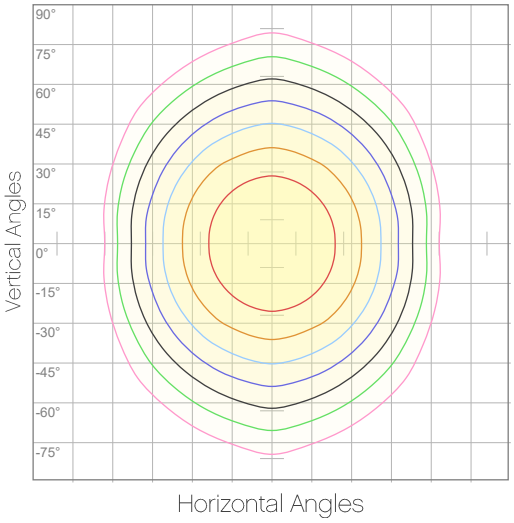
Well STX 180: Standard Optics – 4000K – 3 HR

Candela Plot



Beam Angle (50%): 127.4°
Field Angle (10%): 201.6°
Cutoff Angle (3%): 239.9°

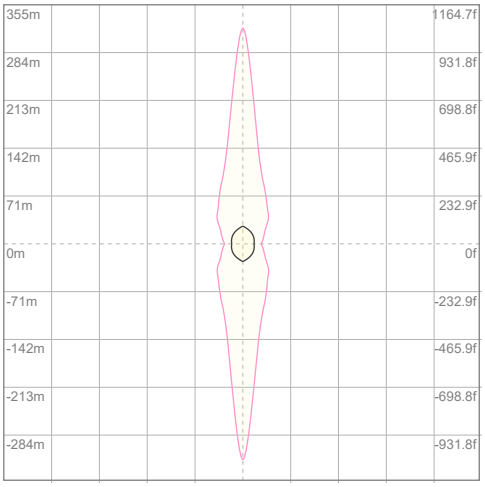
Polar Diagrams



iso-candela Diagram

10%	23 cd
20%	45 cd
30%	68 cd
40%	90 cd
50%	113 cd
60%	135 cd
70%	158 cd
80%	180 cd
90%	203 cd

Conditions:
Number of c-planes: 8
Candela at center: 225 cd



iso-illuminance Diagram

3%	67.5m lx
5%	0.113 lx
10%	0.225 lx
30%	0.675 lx
50%	1.13 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.25 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 4000K – 5 HR

Report Summary

Output

Total Lumens: 862 lm
Peak Intensity: 225 cd
Illuminance @ 5m: 9 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 137.9°
Horizontal Field Angle (10%): 162.2°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 175.2°
Vertical Cutoff Angle (3%): 280.2°

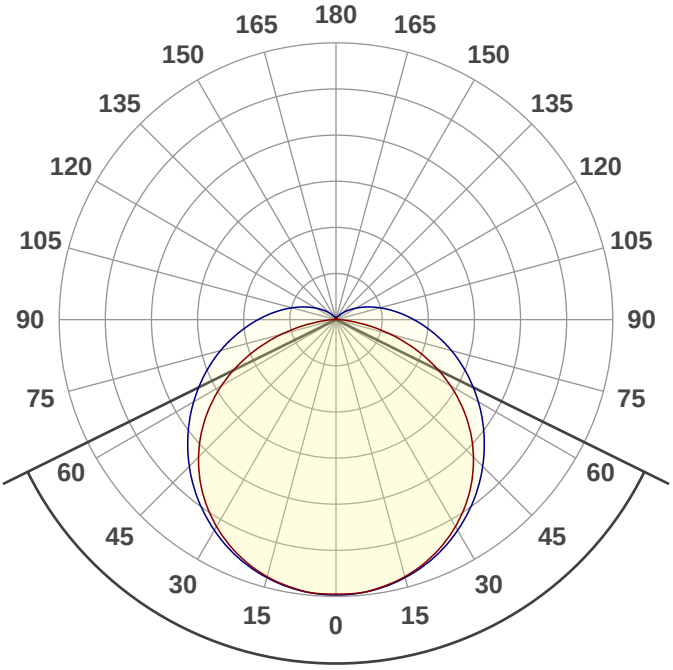
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

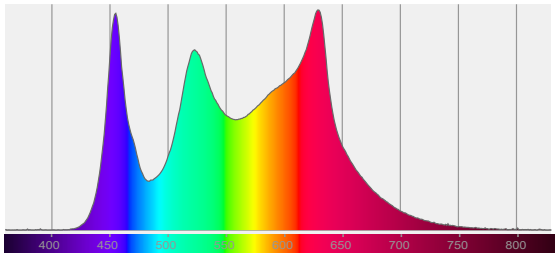
Overall Measurement

Angular Beam Distribution

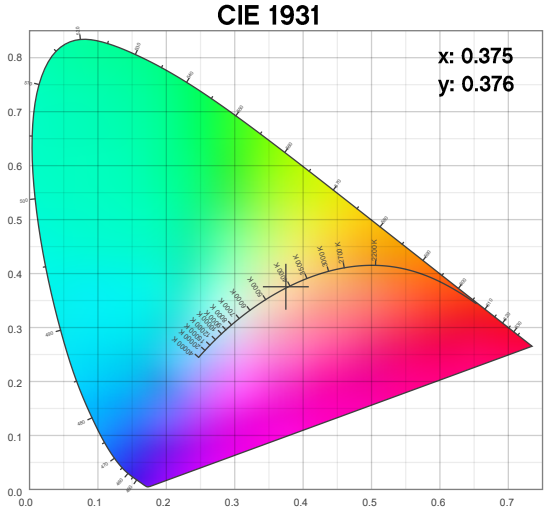


Beam Angle **127.5°**

Spectral Distribution



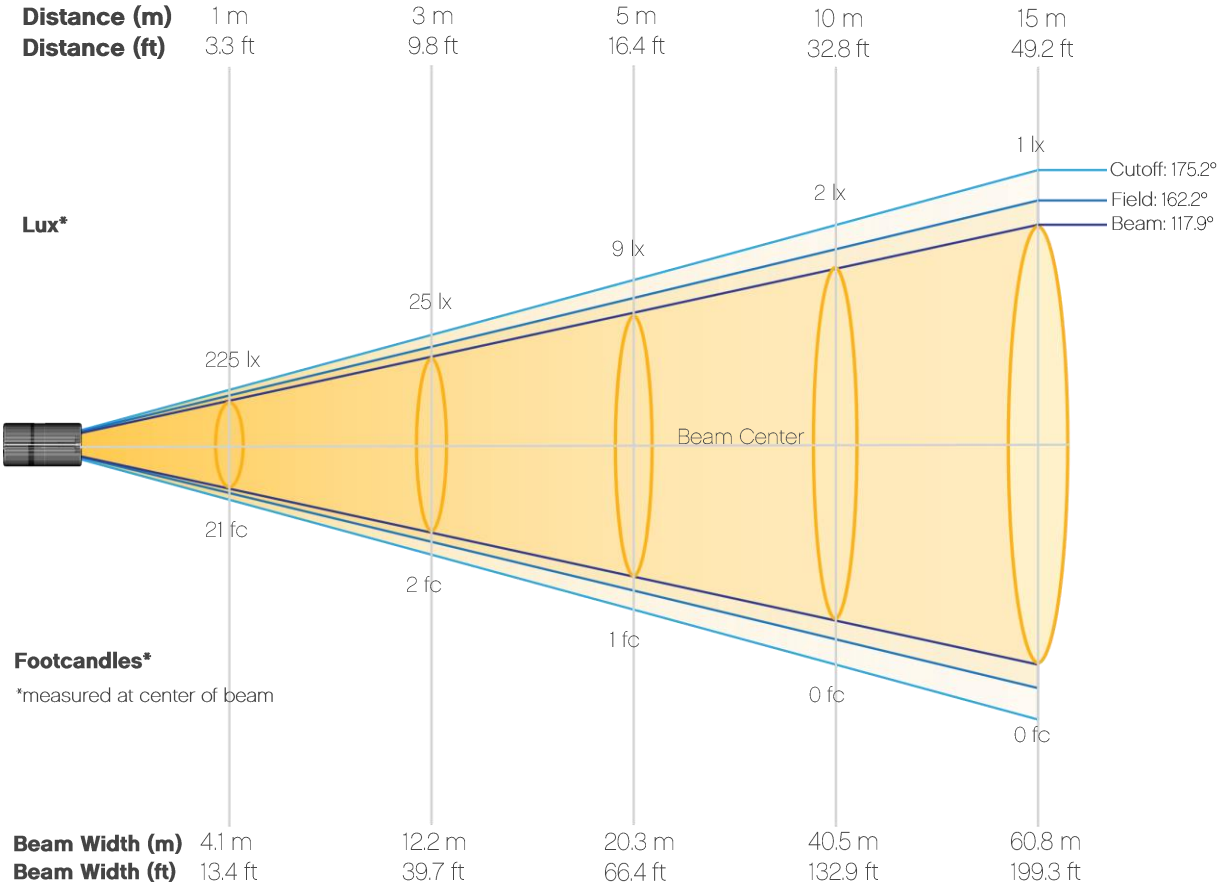
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 4000K – 5 HR

Beam Details



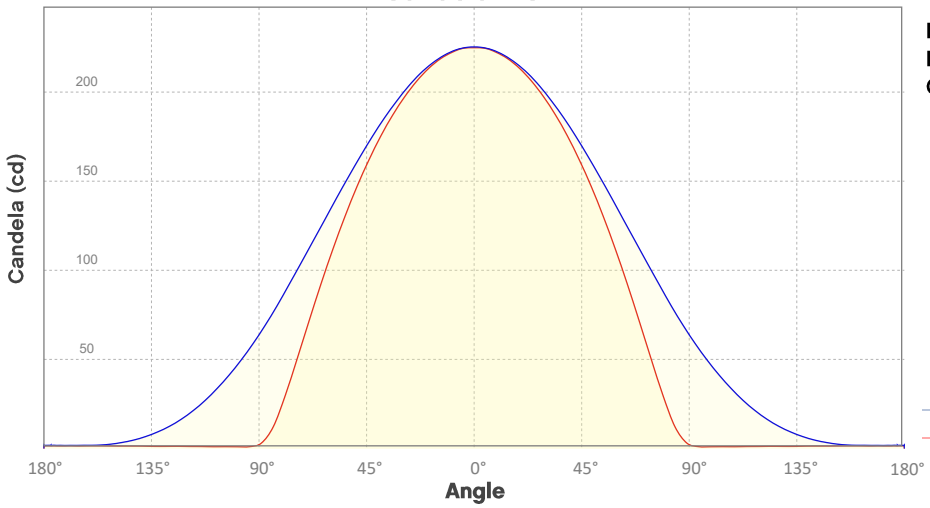
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	225	56	25	14	9	6	5	4	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	21	5	2	1	1	1	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

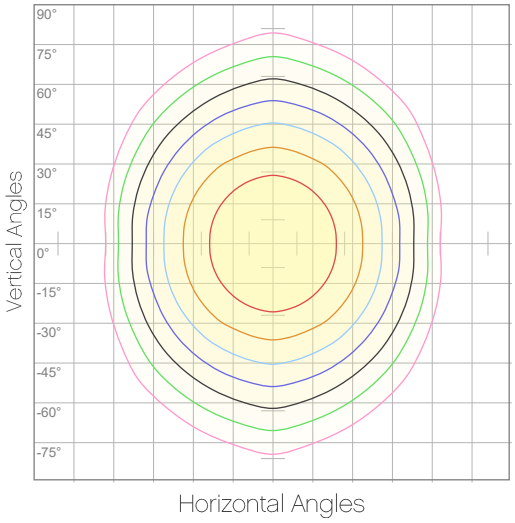
Well STX 180: Standard Optics – 4000K – 5 HR

Candela Plot



Beam Angle (50%): 127.5°
Field Angle (10%): 201.7°
Cutoff Angle (3%): 240.1°

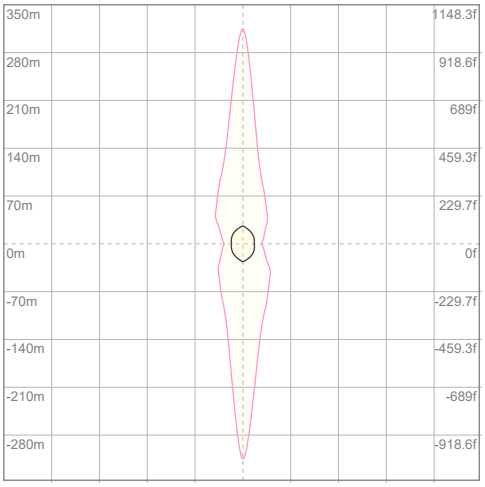
Polar Diagrams



iso-candela Diagram

10%	22 cd
20%	45 cd
30%	67 cd
40%	90 cd
50%	112 cd
60%	135 cd
70%	157 cd
80%	180 cd
90%	202 cd

Conditions:
Number of c-planes: 8
Candela at center: 225 cd



iso-illuminance Diagram

3%	67.5m lx
5%	0.112 lx
10%	0.225 lx
30%	0.675 lx
50%	1.12 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.25 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 4000K – 8 HR

Report Summary

Output

Total Lumens: 781 lm
Peak Intensity: 204 cd
Illuminance @ 5m: 8 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.8°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 232.9°
Horizontal Cutoff Angle (3%): 175°
Vertical Cutoff Angle (3%): 279.8°

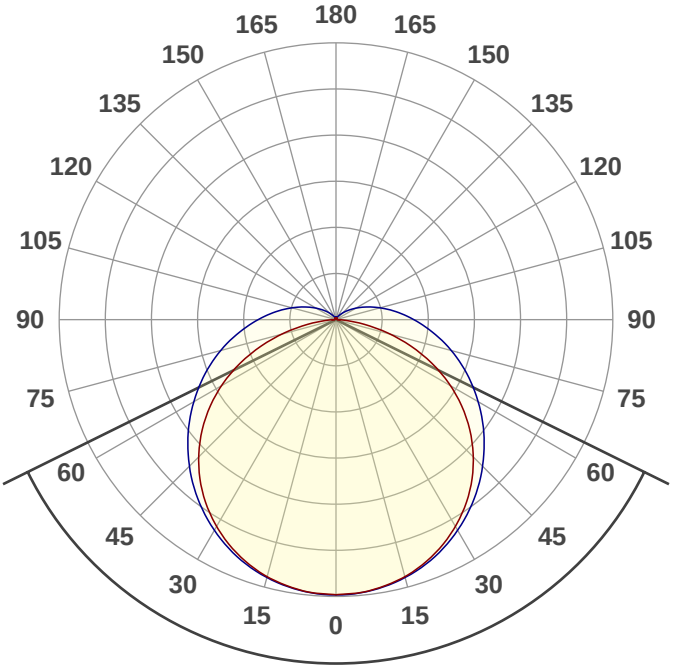
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

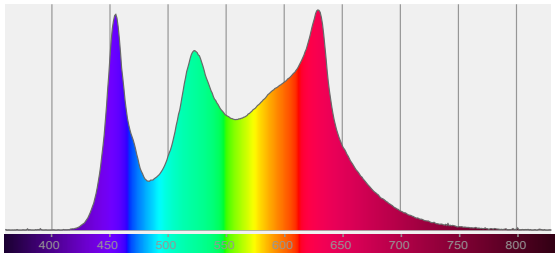
Overall Measurement

Angular Beam Distribution

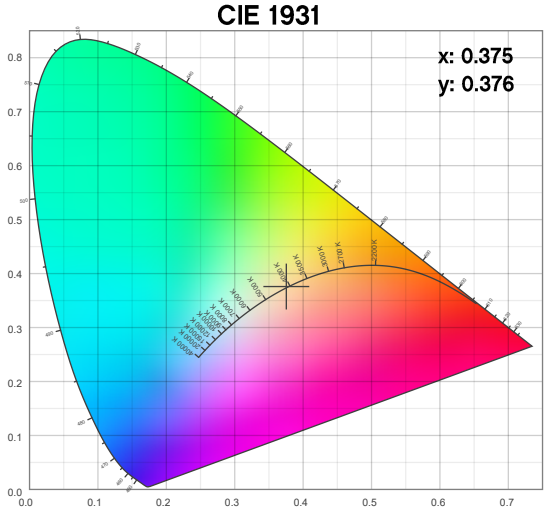


Beam Angle **127.4°**

Spectral Distribution



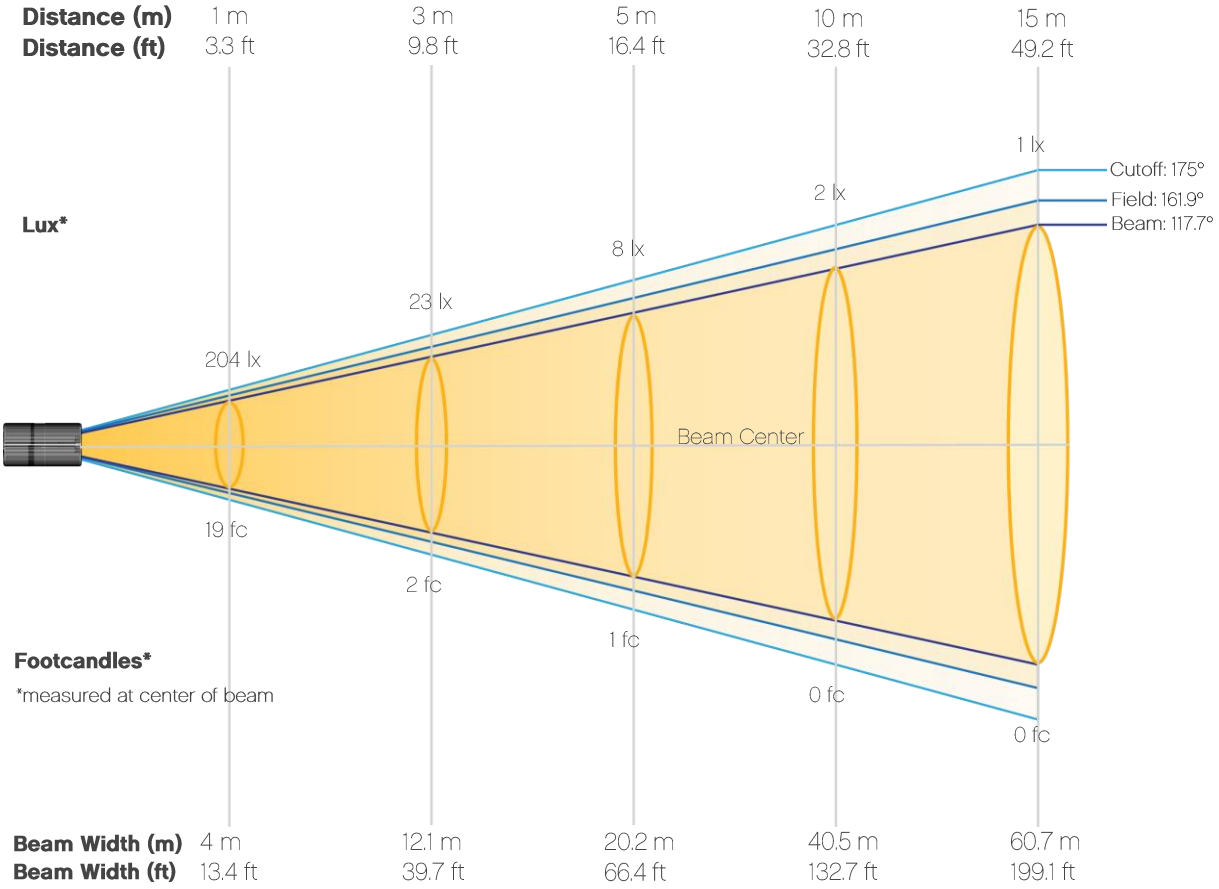
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 4000K – 8 HR

Beam Details



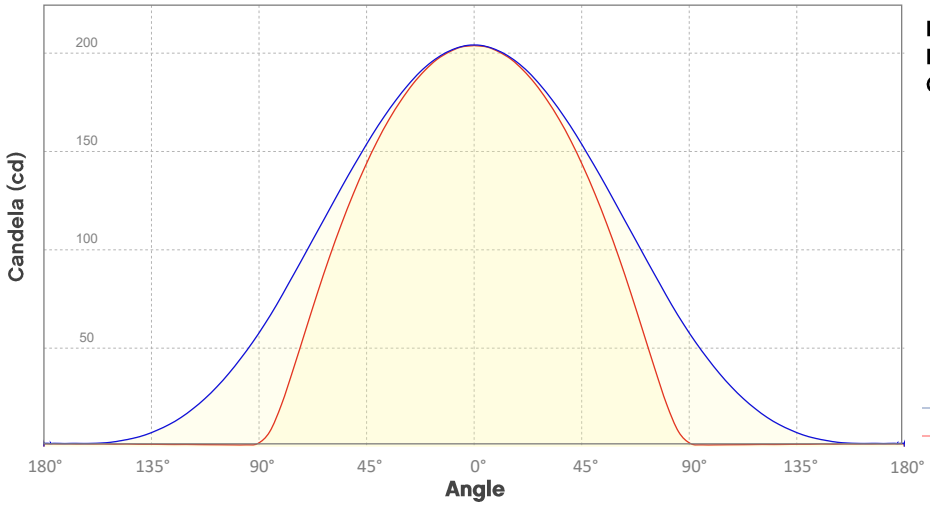
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	204	51	23	13	8	6	4	3	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	1	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	19	5	2	1	1	1	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

Well STX 180: Standard Optics – 4000K – 8 HR

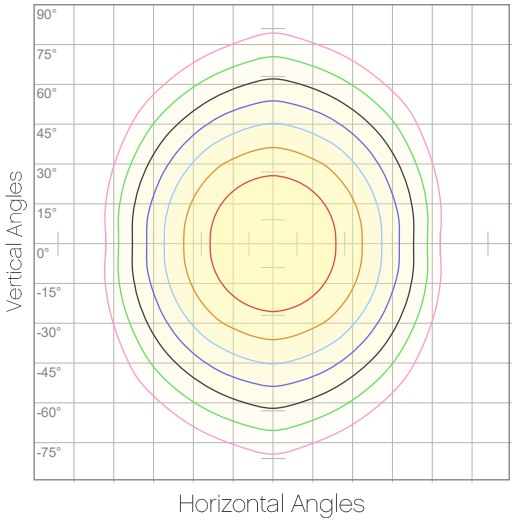
Candela Plot



Beam Angle (50%): 127.4°
Field Angle (10%): 201.6°
Cutoff Angle (3%): 239.8°

Horizontal Distribution
Vertical Distribution

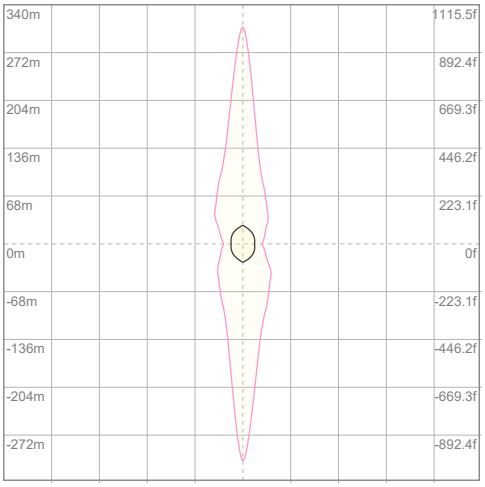
Polar Diagrams



iso-candela Diagram

10%	20 cd
20%	41 cd
30%	61 cd
40%	82 cd
50%	102 cd
60%	122 cd
70%	143 cd
80%	163 cd
90%	183 cd

Conditions:
Number of c-planes: 8
Candela at center: 204 cd



iso-illuminance Diagram

3%	61.2m lx
5%	0.102 lx
10%	0.204 lx
30%	0.612 lx
50%	1.02 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.04 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 4000K – 12 HR

Report Summary

Output

Total Lumens: 461 lm
Peak Intensity: 121 cd
Illuminance @ 5m: 5 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.6°
Vertical Beam Angle (50%): 137.5°
Horizontal Field Angle (10%): 161.6°
Vertical Field Angle (10%): 232.6°
Horizontal Cutoff Angle (3%): 174.3°
Vertical Cutoff Angle (3%): 278.9°

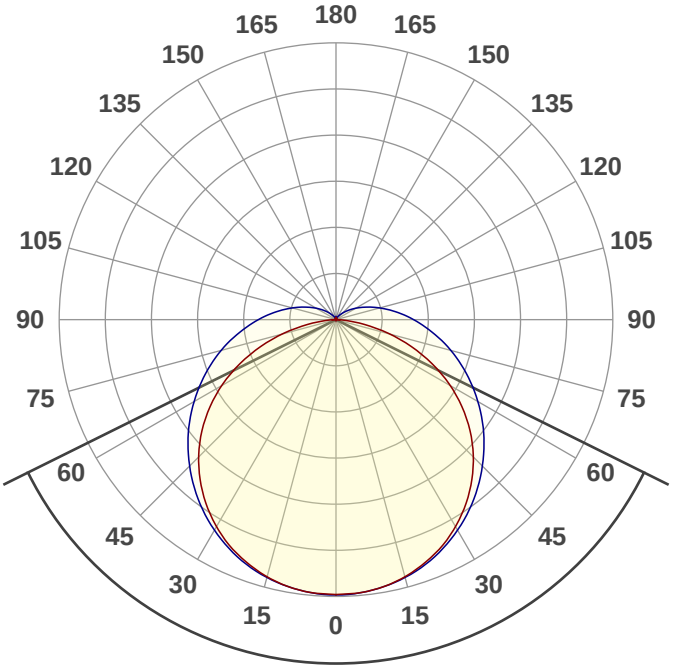
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

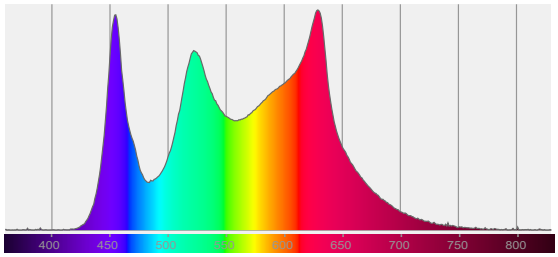
Overall Measurement

Angular Beam Distribution

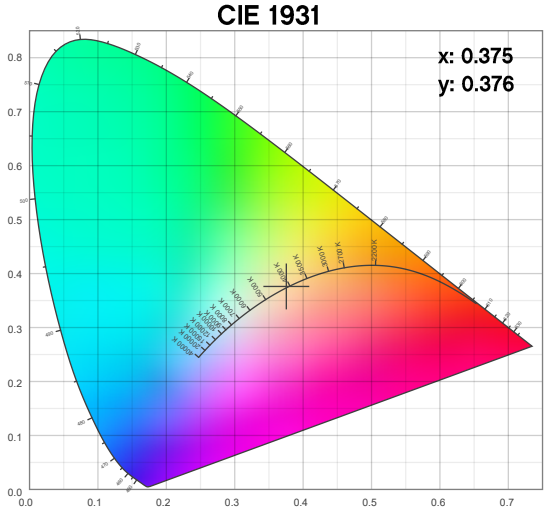


Beam Angle **127.2°**

Spectral Distribution



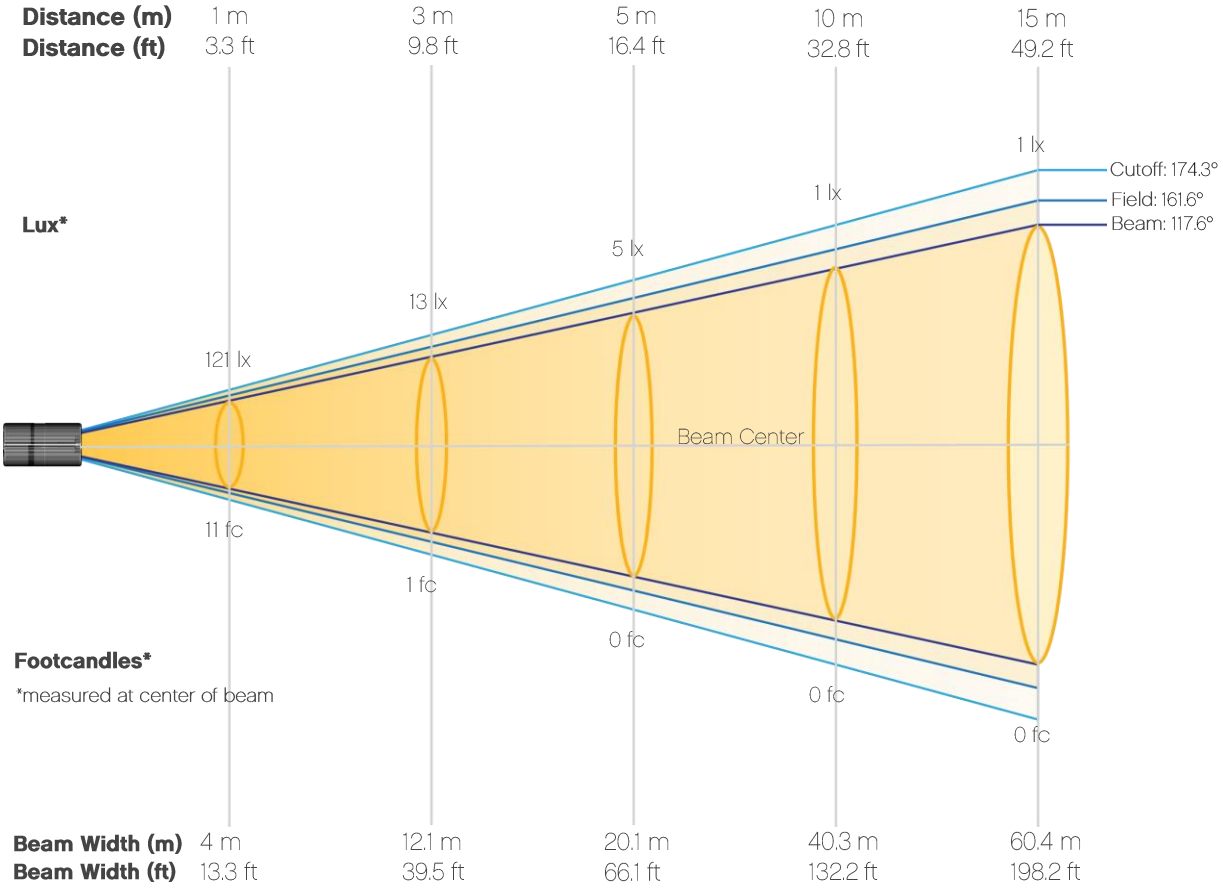
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 4000K – 12 HR

Beam Details



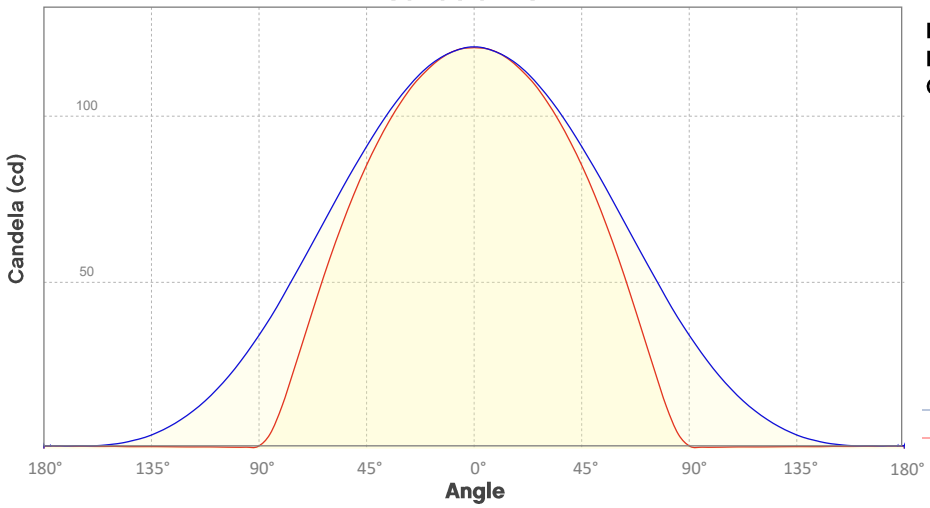
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	121	30	13	8	5	3	2	2	1	1
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	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	11	3	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

Well STX 180: Standard Optics – 4000K – 12 HR

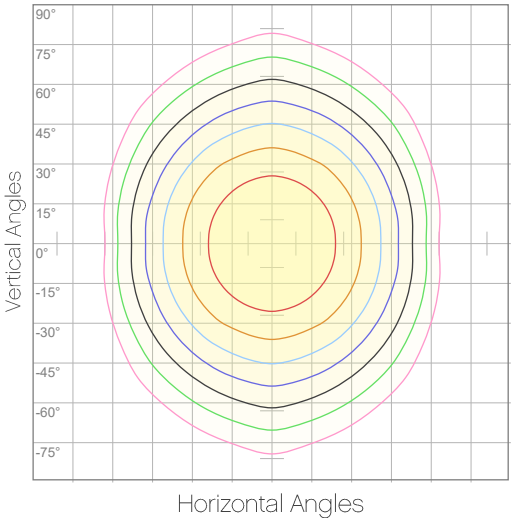
Candela Plot



Beam Angle (50%): 127.2°
Field Angle (10%): 201.3°
Cutoff Angle (3%): 239.1°

Horizontal Distribution
Vertical Distribution

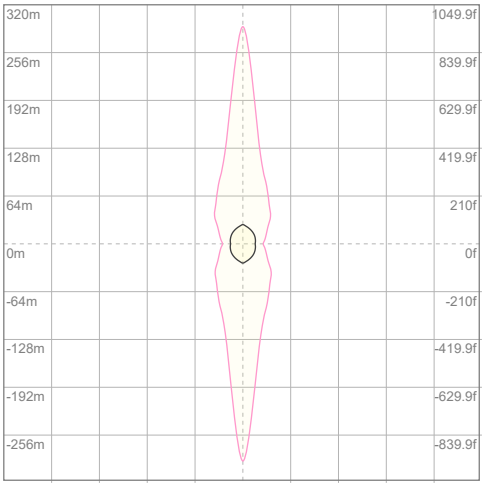
Polar Diagrams



iso-candela Diagram

10%	12 cd
20%	24 cd
30%	36 cd
40%	48 cd
50%	60 cd
60%	72 cd
70%	84 cd
80%	97 cd
90%	109 cd

Conditions:
Number of c-planes: 8
Candela at center: 121 cd



iso-illuminance Diagram

3%	36.2m lx
5%	60.3m lx
10%	0.121 lx
30%	0.362 lx
50%	0.603 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.21 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 5600K – 3 HR

Report Summary

Output

Total Lumens: 942 lm
Peak Intensity: 245 cd
Illuminance @ 5m: 10 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.8°
Vertical Beam Angle (50%): 138°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 233.5°
Horizontal Cutoff Angle (3%): 174.9°
Vertical Cutoff Angle (3%): 281.1°

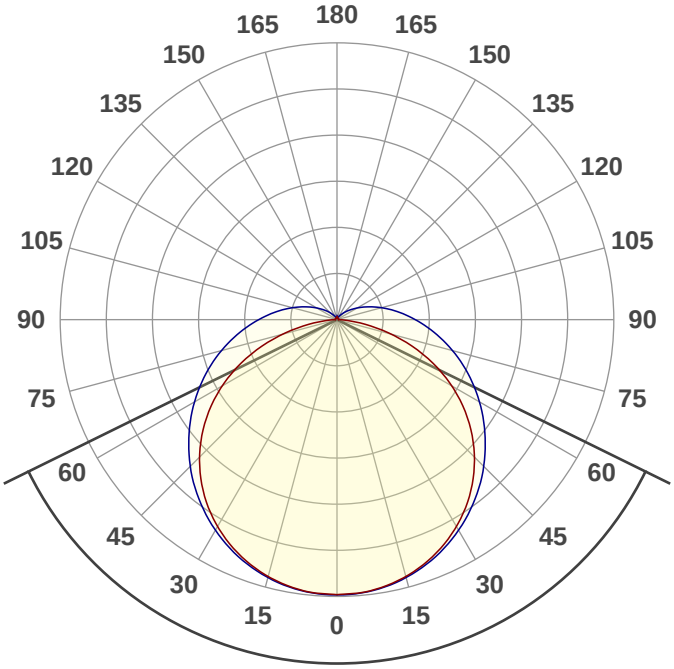
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

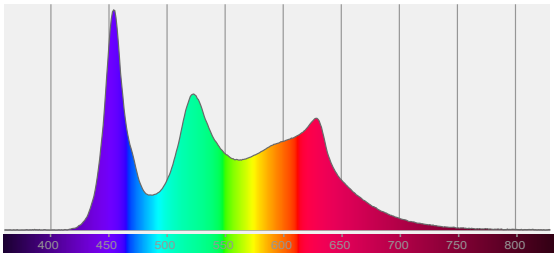
Overall Measurement

Angular Beam Distribution

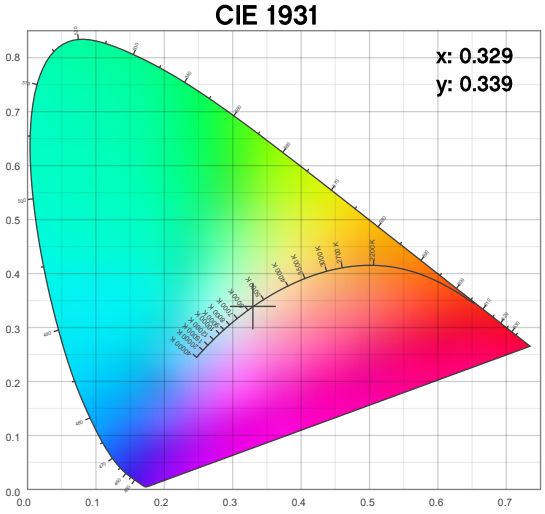


Beam Angle **127.6°**

Spectral Distribution



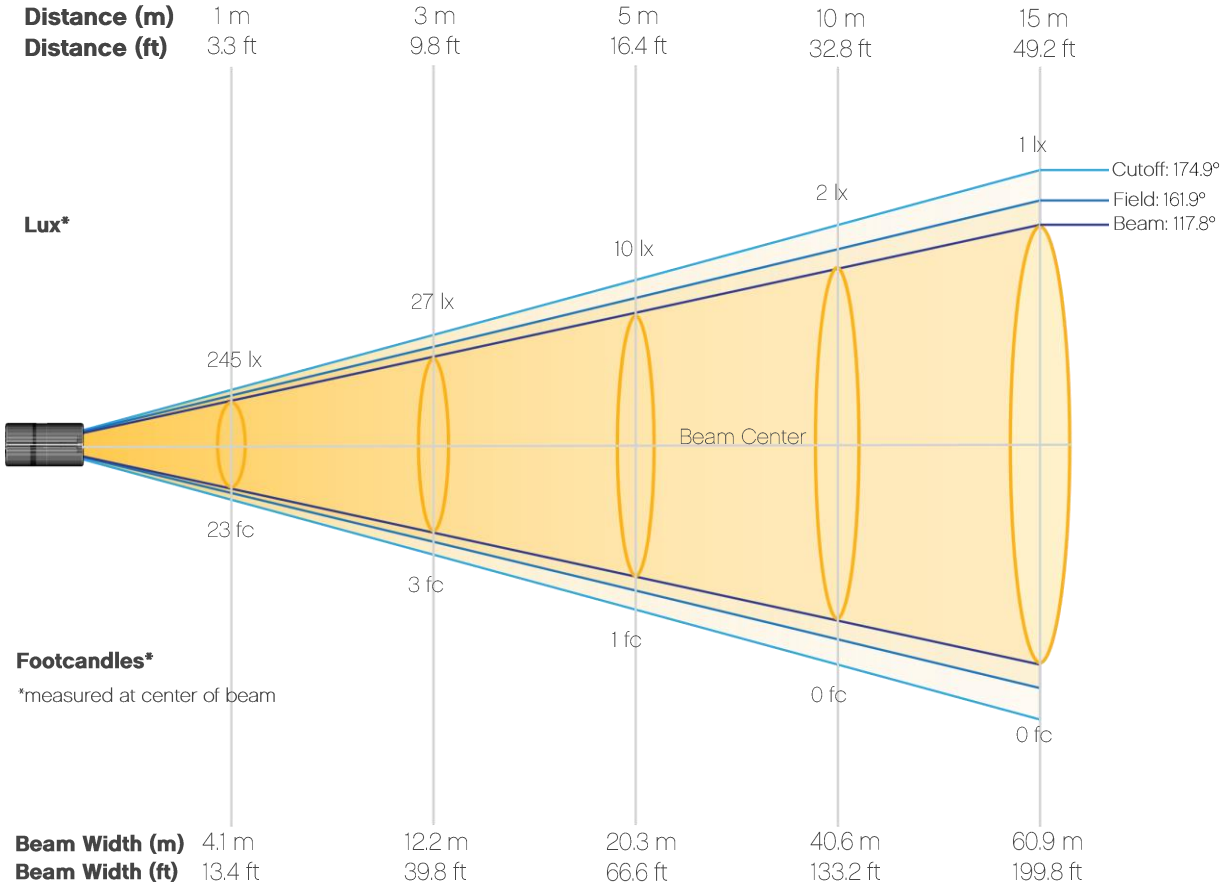
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 5600K – 3 HR

Beam Details



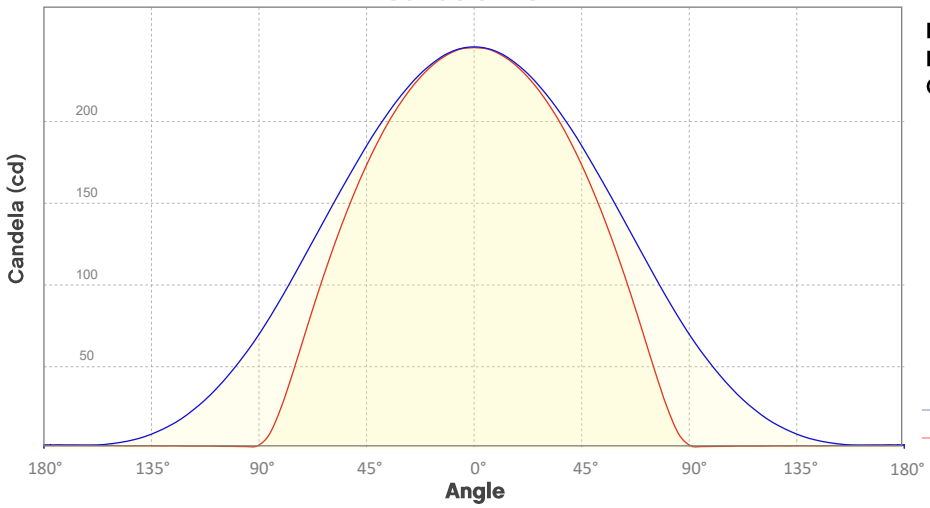
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	245	61	27	15	10	7	5	4	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	23	6	3	1	1	1	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

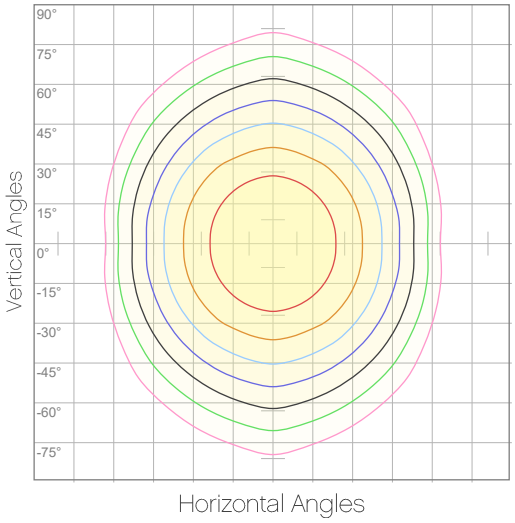
Well STX 180: Standard Optics – 5600K – 3 HR

Candela Plot



Beam Angle (50%): 127.6°
Field Angle (10%): 201.9°
Cutoff Angle (3%): 240.9°

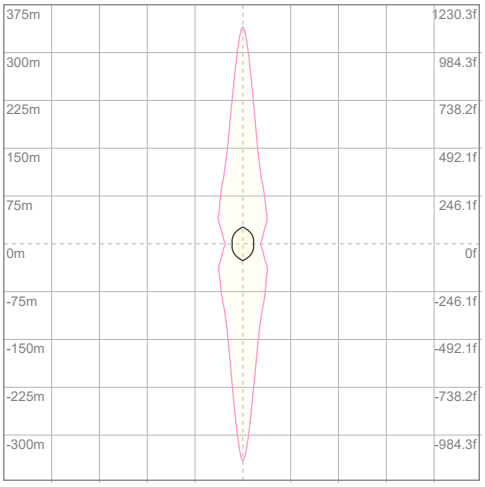
Polar Diagrams



iso-candela Diagram

10%	25 cd
20%	49 cd
30%	74 cd
40%	98 cd
50%	123 cd
60%	147 cd
70%	172 cd
80%	196 cd
90%	221 cd

Conditions:
Number of c-planes: 8
Candela at center: 245 cd



iso-illuminance Diagram

3%	73.6m lx
5%	0.123 lx
10%	0.245 lx
30%	0.736 lx
50%	1.23 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.45 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 5600K – 5 HR

Report Summary

Output

Total Lumens: 941 lm
Peak Intensity: 245 cd
Illuminance @ 5m: 10 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 233.6°
Horizontal Cutoff Angle (3%): 175°
Vertical Cutoff Angle (3%): 281.9°

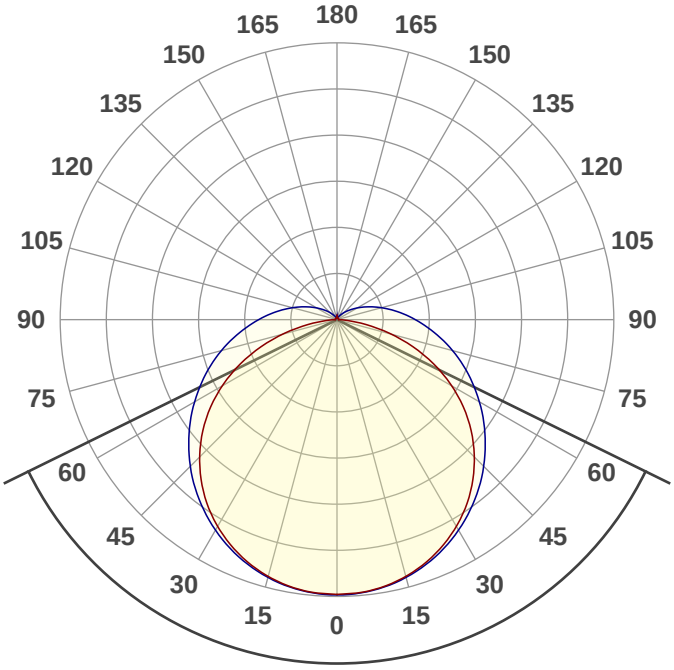
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

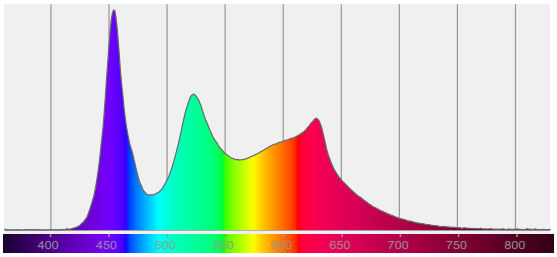
Overall Measurement

Angular Beam Distribution

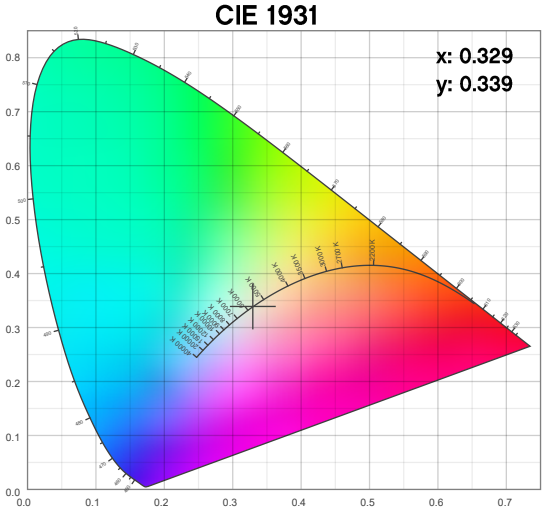


Beam Angle **127.6°**

Spectral Distribution



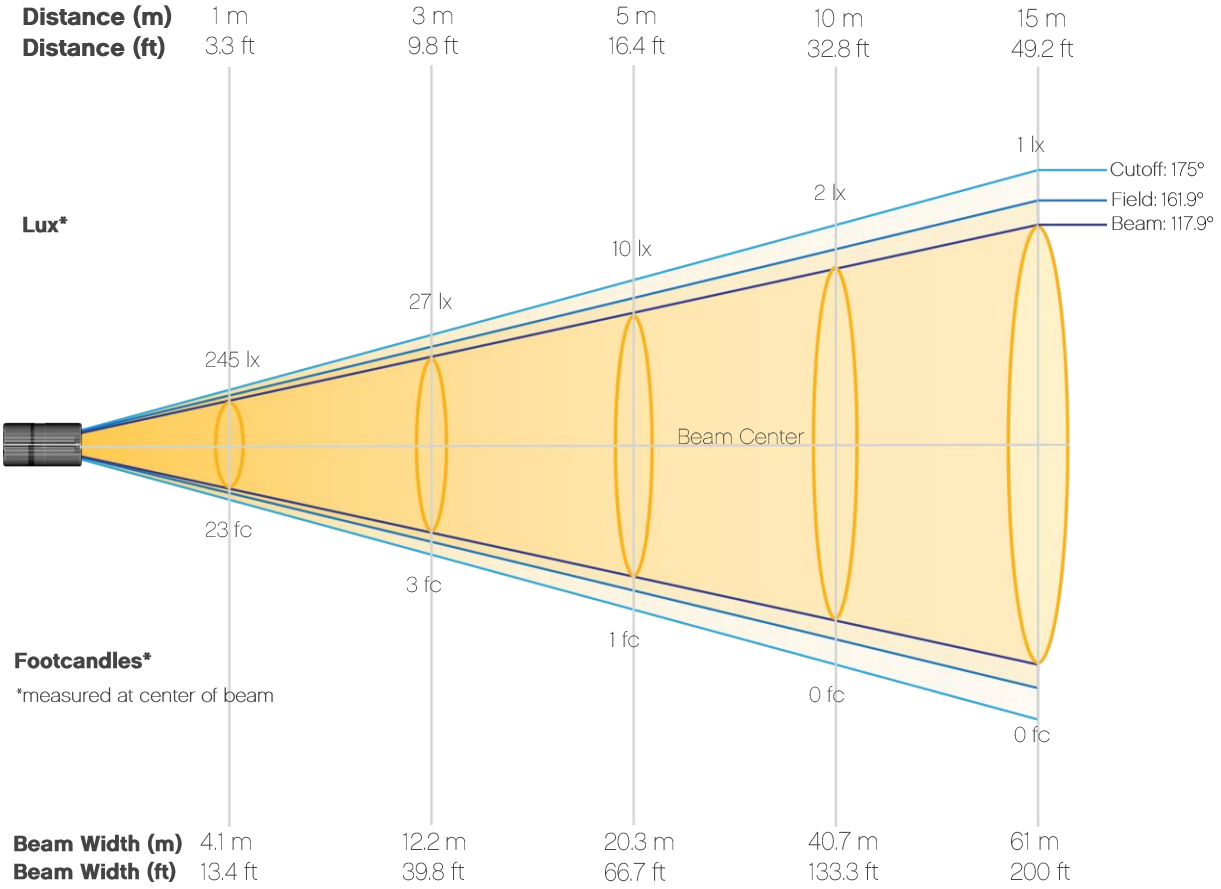
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 5600K – 5 HR

Beam Details



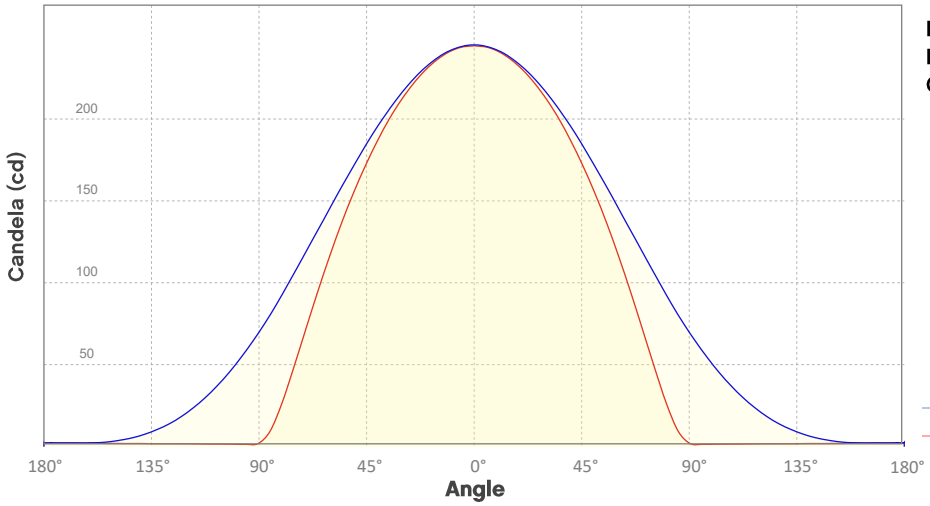
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	245	61	27	15	10	7	5	4	3	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	1	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	23	6	3	1	1	1	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

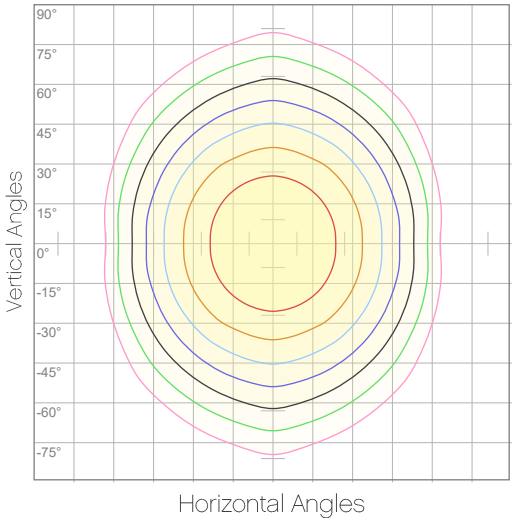
Well STX 180: Standard Optics – 5600K – 5 HR

Candela Plot



Beam Angle (50%): 127.6°
Field Angle (10%): 202.1°
Cutoff Angle (3%): 241.2°

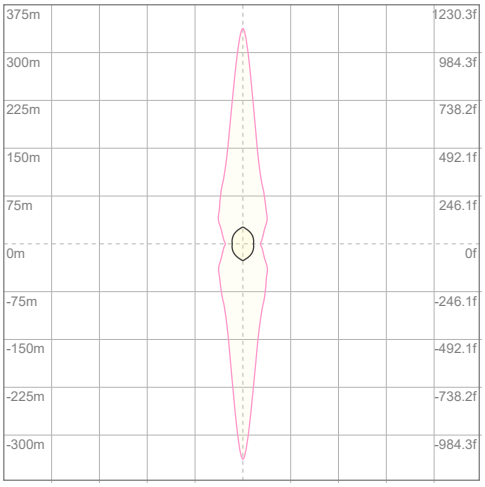
Polar Diagrams



iso-candela Diagram

10%	24 cd
20%	49 cd
30%	73 cd
40%	98 cd
50%	122 cd
60%	147 cd
70%	171 cd
80%	196 cd
90%	220 cd

Conditions:
Number of c-planes: 8
Candela at center: 245 cd



iso-illuminance Diagram

3%	73.4m lx
5%	0.122 lx
10%	0.245 lx
30%	0.734 lx
50%	1.22 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.45 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 5600K – 8 HR

Report Summary

Output

Total Lumens: 732 lm
Peak Intensity: 191 cd
Illuminance @ 5m: 8 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.8°
Vertical Beam Angle (50%): 138°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 233.5°
Horizontal Cutoff Angle (3%): 175°
Vertical Cutoff Angle (3%): 281.2°

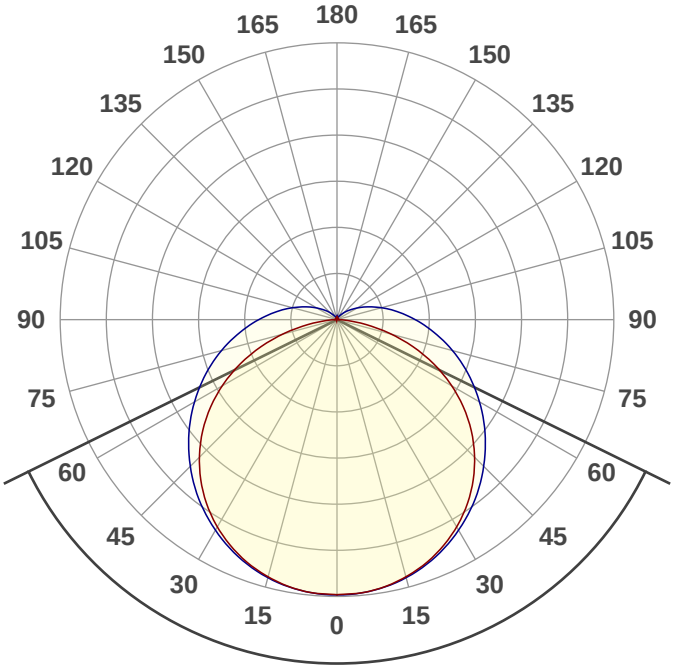
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

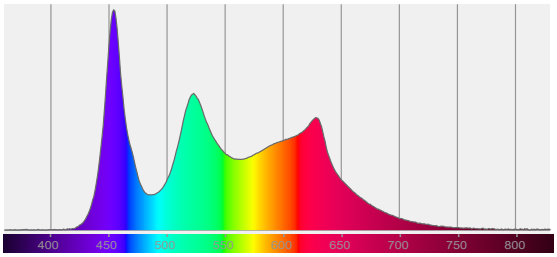
Overall Measurement

Angular Beam Distribution

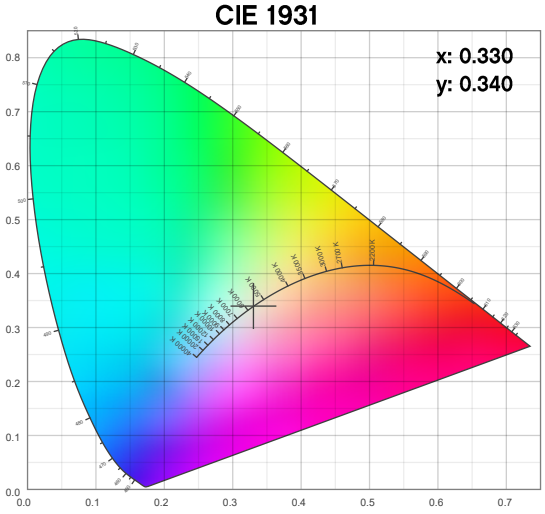


Beam Angle **127.6°**

Spectral Distribution



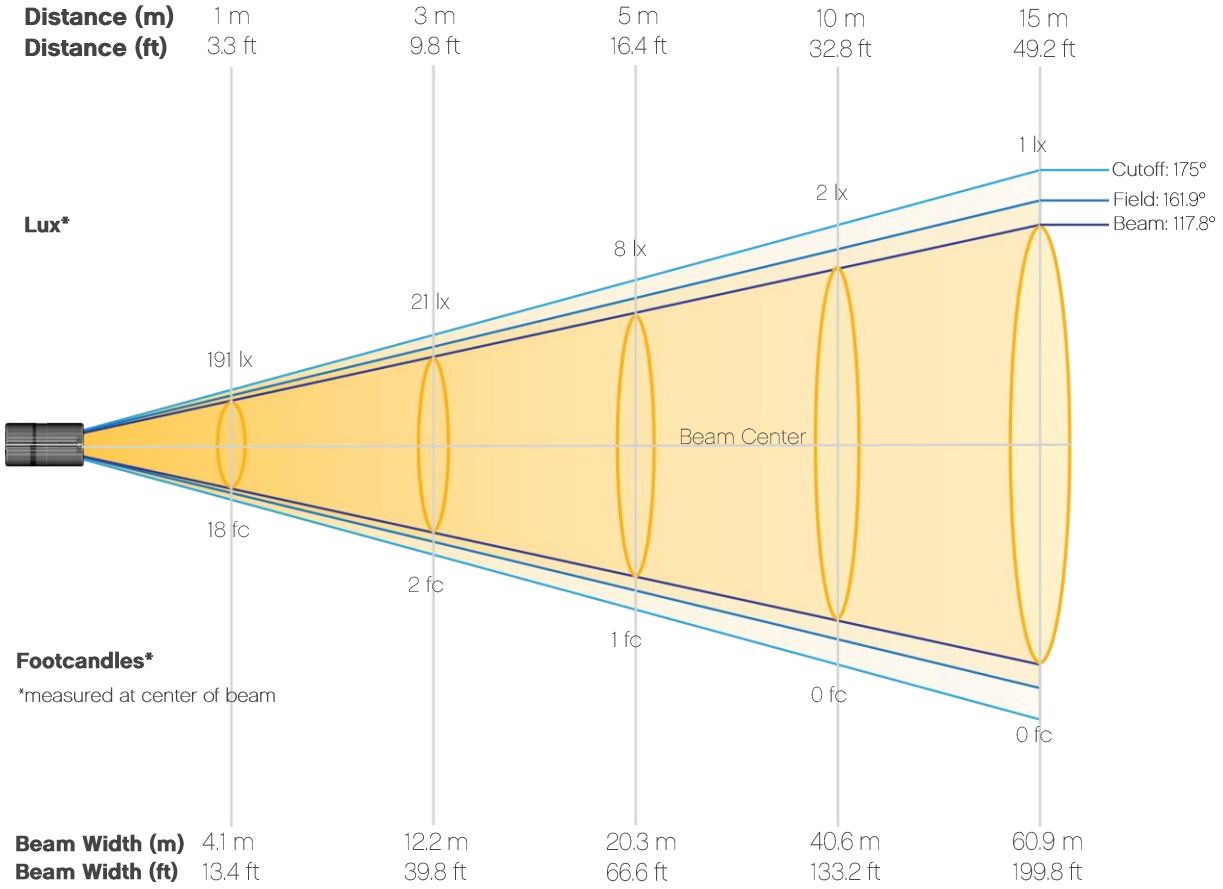
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 5600K – 8 HR

Beam Details



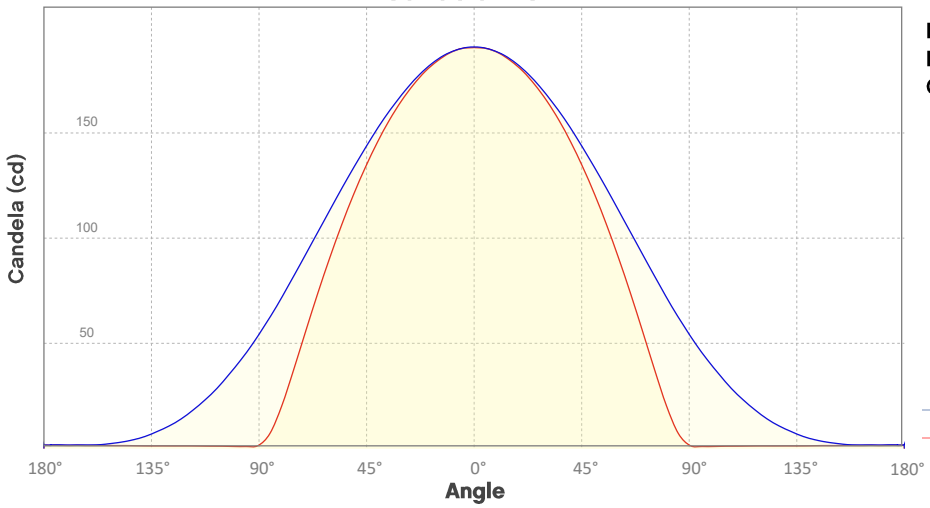
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	191	48	21	12	8	5	4	3	2	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	1	1	1	1	1	1	1	1	0
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	18	4	2	1	1	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

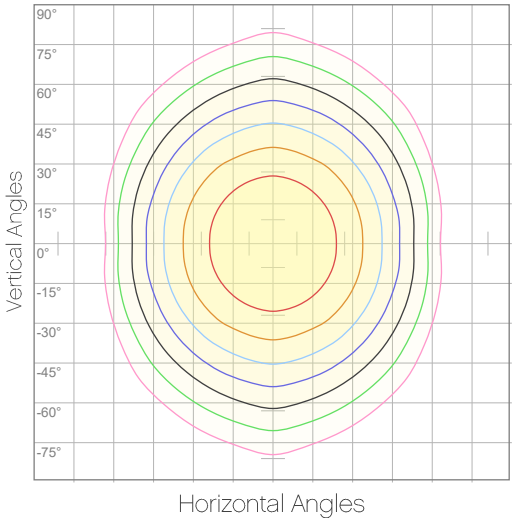
Well STX 180: Standard Optics – 5600K – 8 HR

Candela Plot



Beam Angle (50%): 127.6°
Field Angle (10%): 201.9°
Cutoff Angle (3%): 240.9°

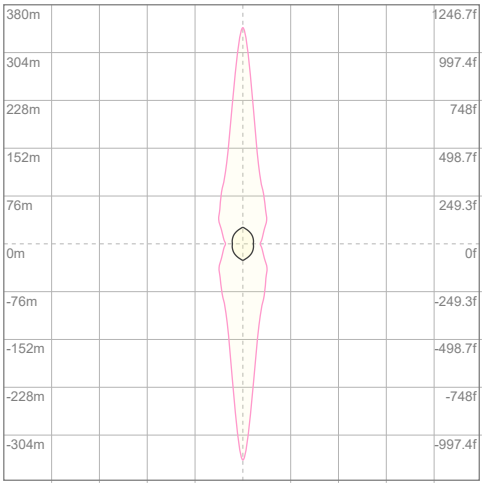
Polar Diagrams



iso-candela Diagram

10%	19 cd
20%	38 cd
30%	57 cd
40%	76 cd
50%	95 cd
60%	114 cd
70%	133 cd
80%	153 cd
90%	172 cd

Conditions:
Number of c-planes: 8
Candela at center: 191 cd



iso-illuminance Diagram

3%	57.2m lx
5%	95.3m lx
10%	0.191 lx
30%	0.572 lx
50%	0.953 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.91 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 5600K – 12 HR

Report Summary

Output

Total Lumens: 436 lm
Peak Intensity: 114 cd
Illuminance @ 5m: 5 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.7°
Vertical Beam Angle (50%): 137.7°
Horizontal Field Angle (10%): 161.7°
Vertical Field Angle (10%): 233.1°
Horizontal Cutoff Angle (3%): 174.6°
Vertical Cutoff Angle (3%): 280.4°

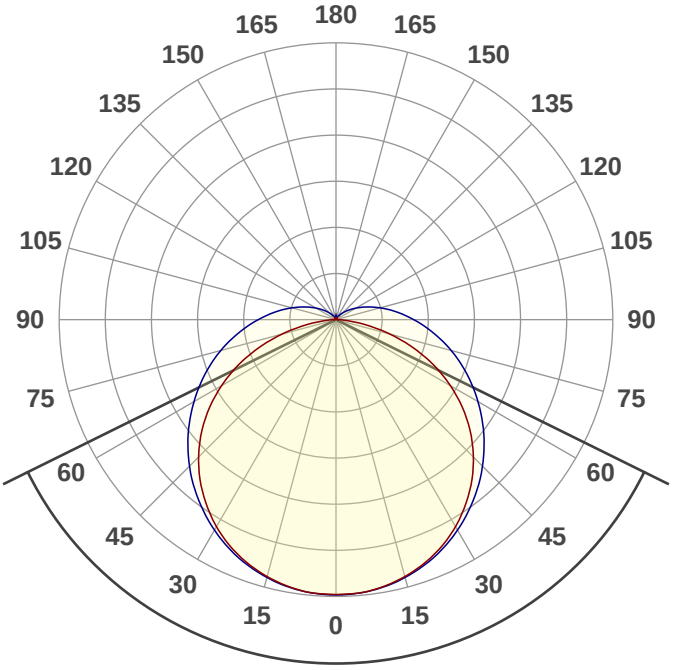
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

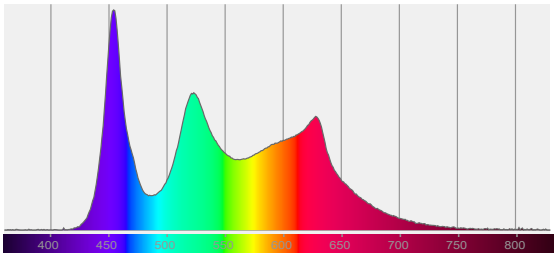
Overall Measurement

Angular Beam Distribution

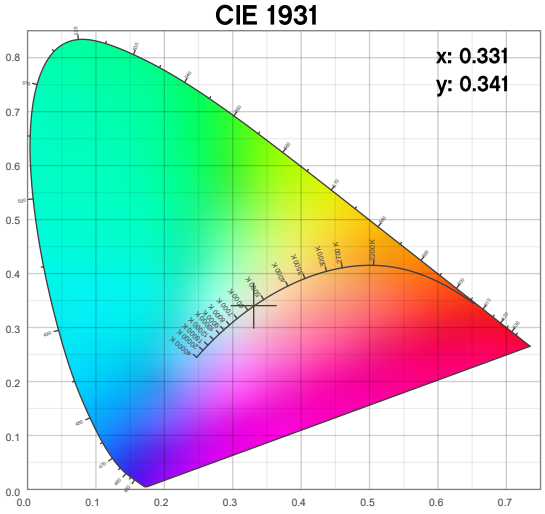


Beam Angle **127.4°**

Spectral Distribution



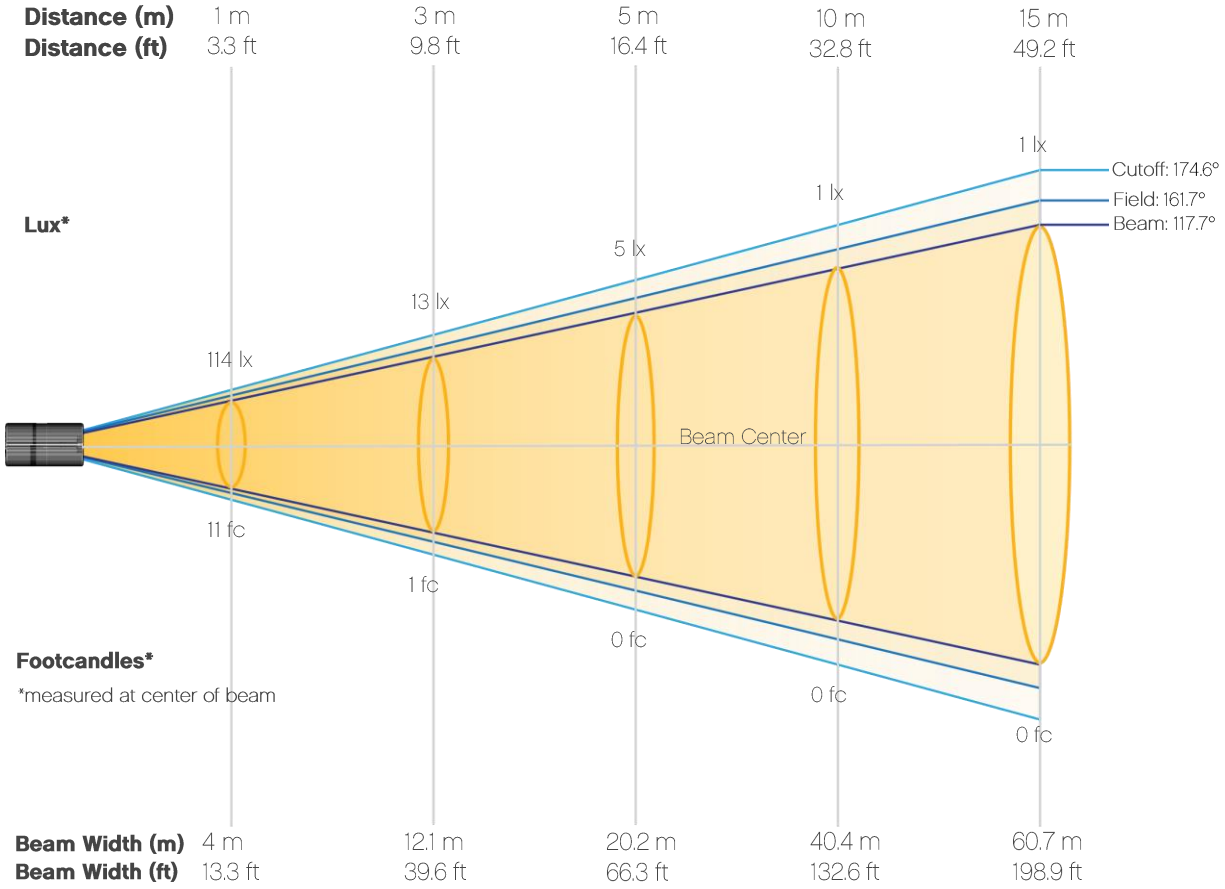
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 5600K – 8 HR

Beam Details



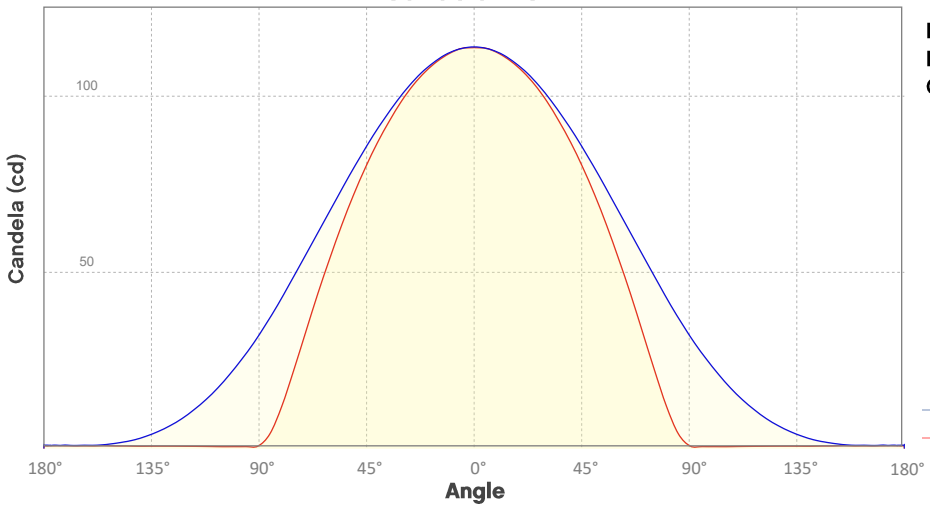
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	114	28	13	7	5	3	2	2	1	1
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	1	1	1	1	1	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	11	3	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

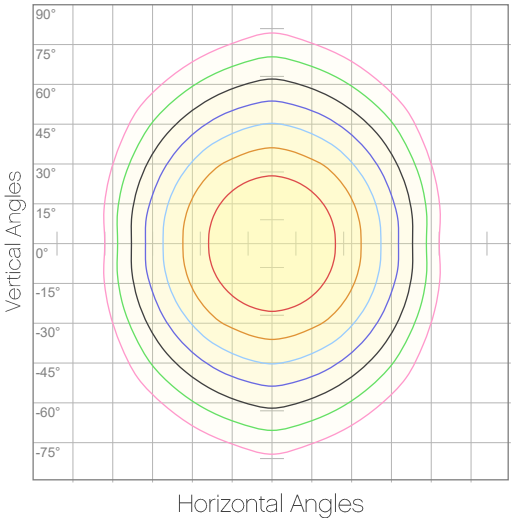
Well STX 180: Standard Optics – 5600K – 12 HR

Candela Plot



Beam Angle (50%): 127.4°
Field Angle (10%): 201.8°
Cutoff Angle (3%): 240.1°

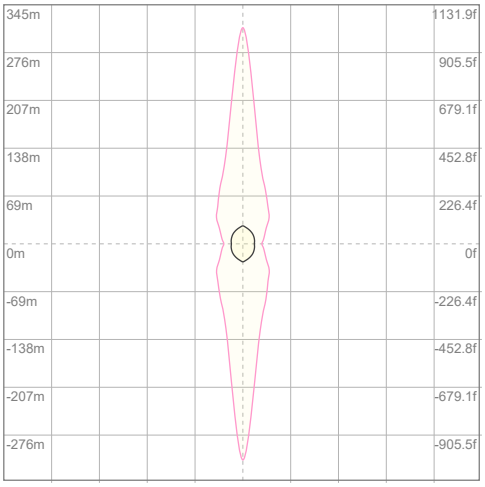
Polar Diagrams



iso-candela Diagram

10%	11 cd
20%	23 cd
30%	34 cd
40%	46 cd
50%	57 cd
60%	68 cd
70%	80 cd
80%	91 cd
90%	102 cd

Conditions:
Number of c-planes: 8
Candela at center: 114 cd



iso-illuminance Diagram

3%	34.1m lx
5%	56.9m lx
10%	0.114 lx
30%	0.341 lx
50%	0.569 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.14 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 6500K – 3 HR

Report Summary

Output

Total Lumens: 996 lm
Peak Intensity: 259 cd
Illuminance @ 5m: 10 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.2°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 233.6°
Horizontal Cutoff Angle (3%): 174.9°
Vertical Cutoff Angle (3%): 281.5°

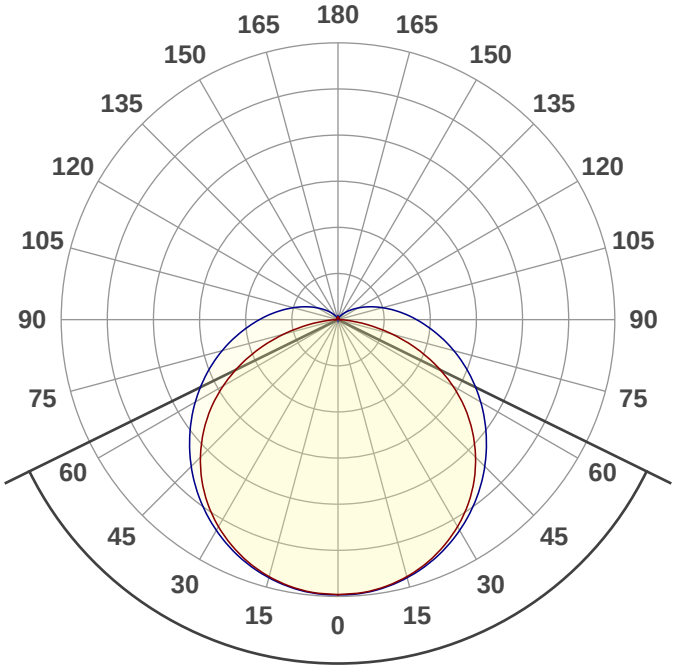
Conditions

AC Supply: 124 V, 60.1 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

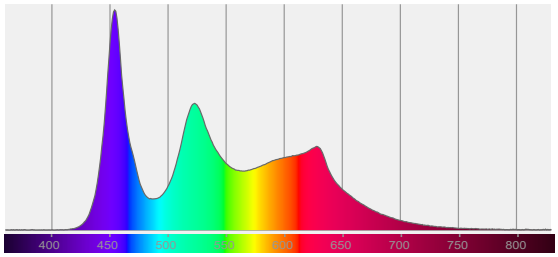
Overall Measurement

Angular Beam Distribution

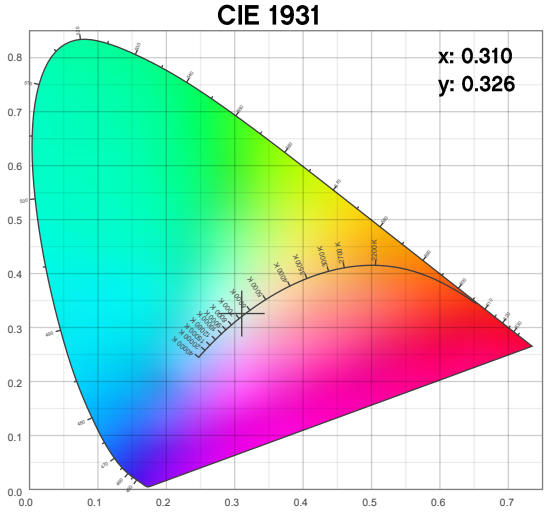


Beam Angle **127.6°**

Spectral Distribution



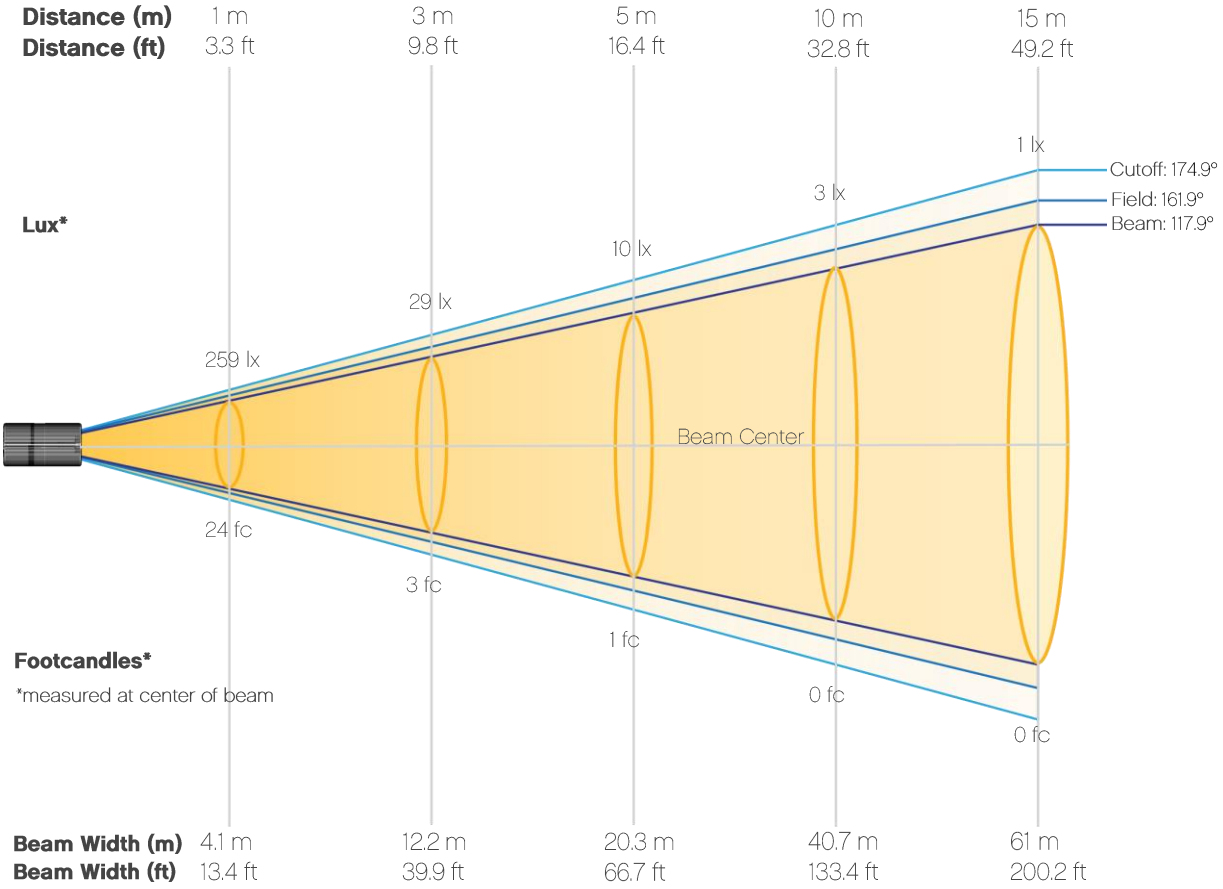
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 6500K – 3 HR

Beam Details



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

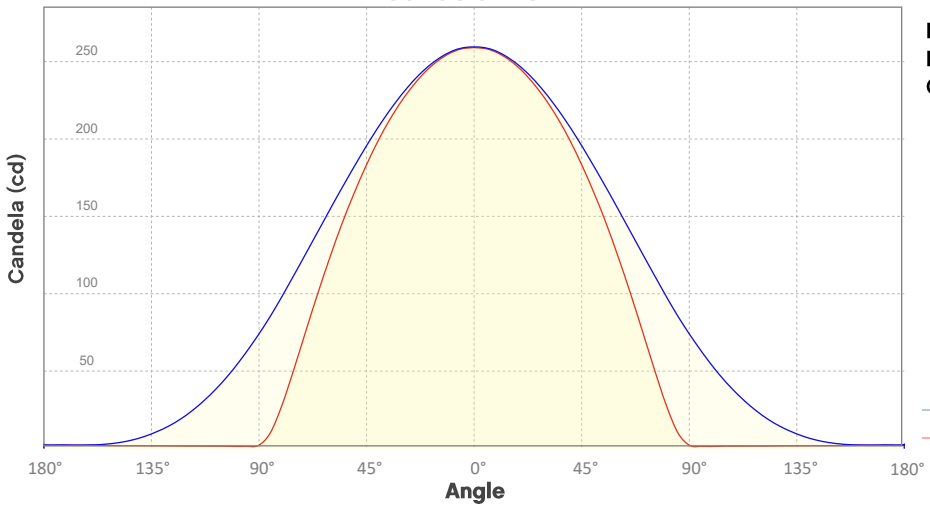
Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	259	65	29	16	10	7	5	4	3	3
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	2	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	24	6	3	2	1	1	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

All product specifications, measurements and dimensions are subject to change without notice

Photometric Report

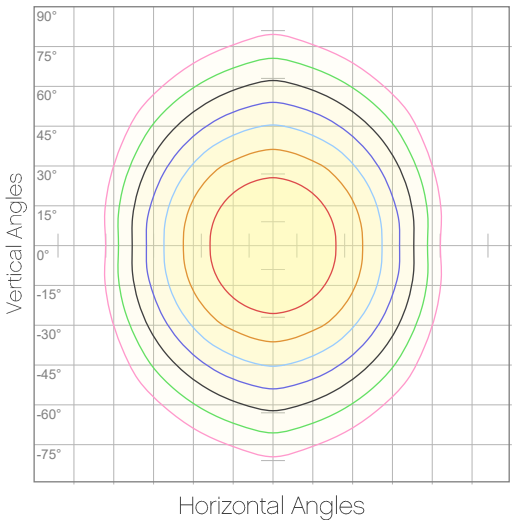
Well STX 180: Standard Optics – 6500K – 3 HR

Candela Plot



Beam Angle (50%): 127.6°
Field Angle (10%): 202.1°
Cutoff Angle (3%): 241°

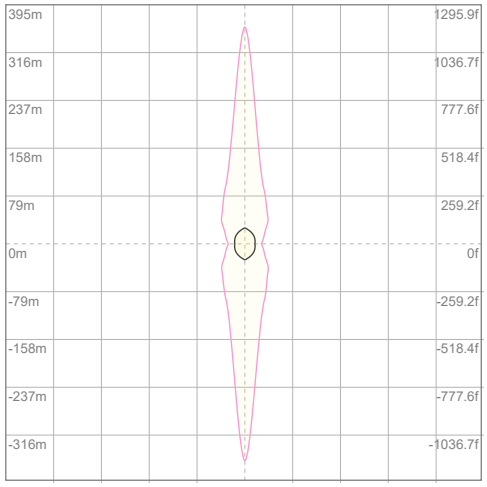
Polar Diagrams



iso-candela Diagram

10%	26 cd
20%	52 cd
30%	78 cd
40%	104 cd
50%	130 cd
60%	156 cd
70%	181 cd
80%	207 cd
90%	233 cd

Conditions:
Number of c-planes: 8
Candela at center: 259 cd



iso-illuminance Diagram

3%	77.8m lx
5%	0.130 lx
10%	0.259 lx
30%	0.778 lx
50%	1.30 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.59 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 6500K – 5 HR

Report Summary

Output

Total Lumens: 994 lm
Peak Intensity: 259 cd
Illuminance @ 5m: 10 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.8°
Vertical Beam Angle (50%): 138.1°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 233.4°
Horizontal Cutoff Angle (3%): 174.8°
Vertical Cutoff Angle (3%): 281°

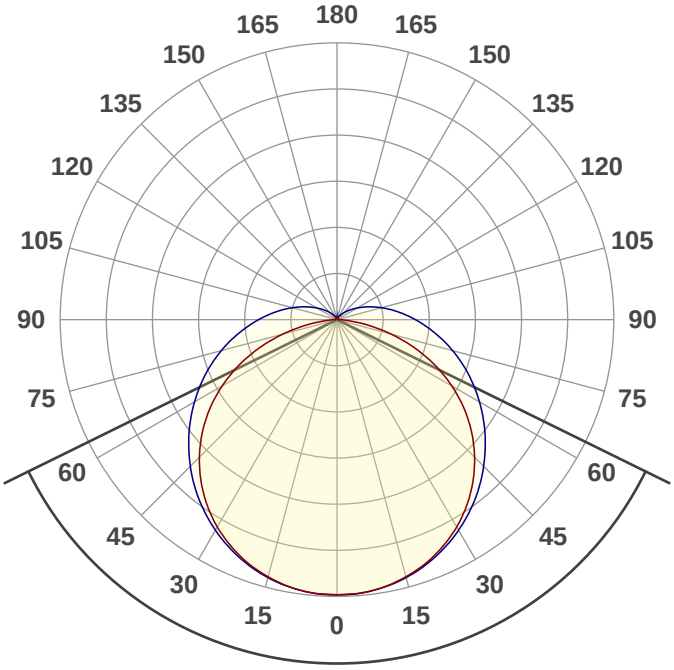
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

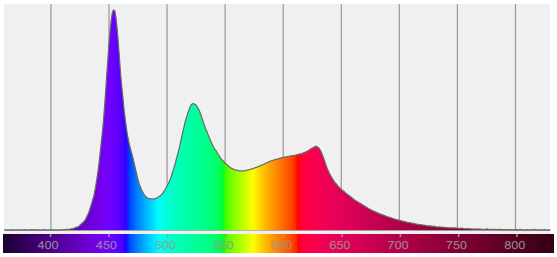
Overall Measurement

Angular Beam Distribution

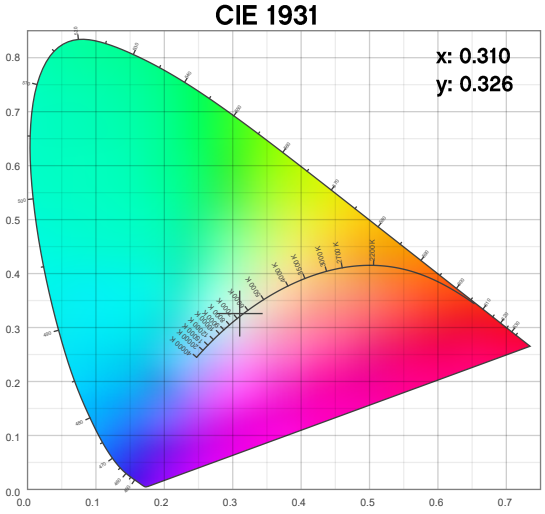


Beam Angle **127.6°**

Spectral Distribution



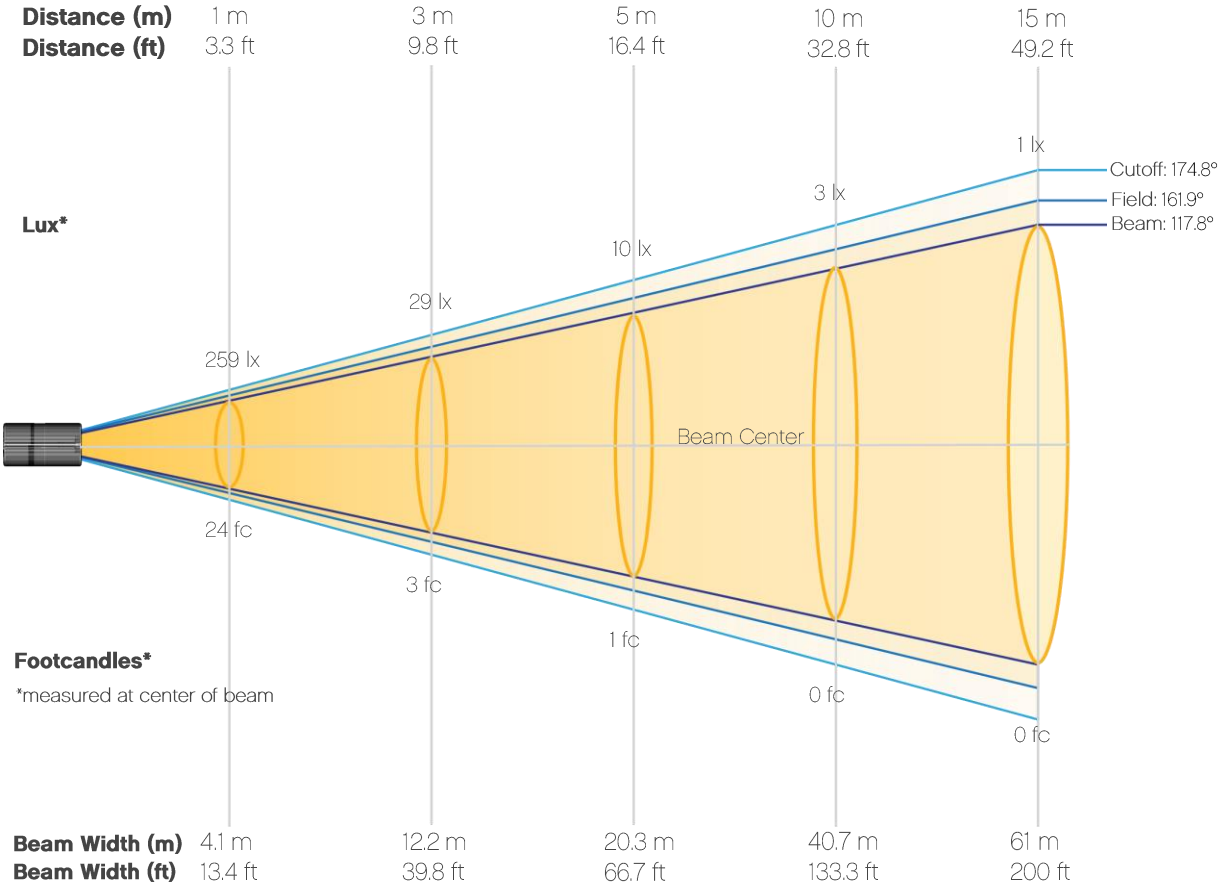
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 6500K – 5 HR

Beam Details



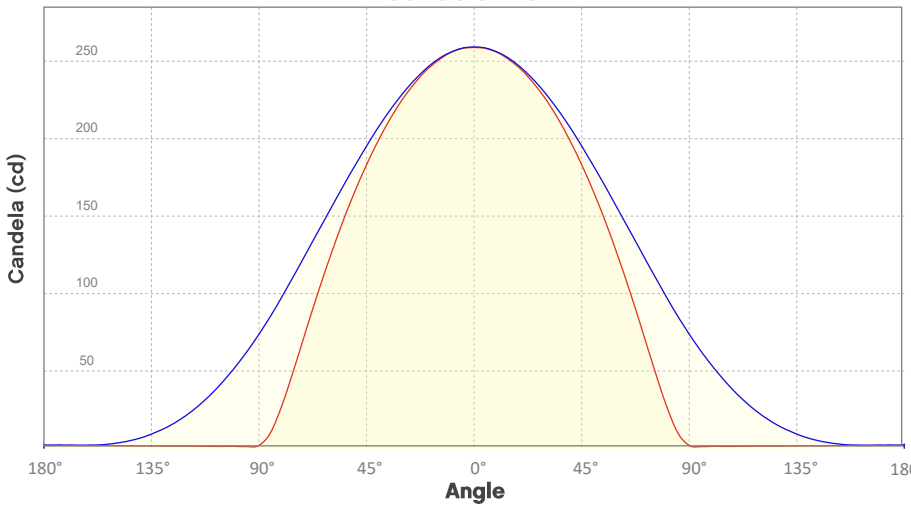
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	259	65	29	16	10	7	5	4	3	3
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	2	2	1	1	1	1	1	1	1
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	24	6	3	2	1	1	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

Well STX 180: Standard Optics – 6500K – 5 HR

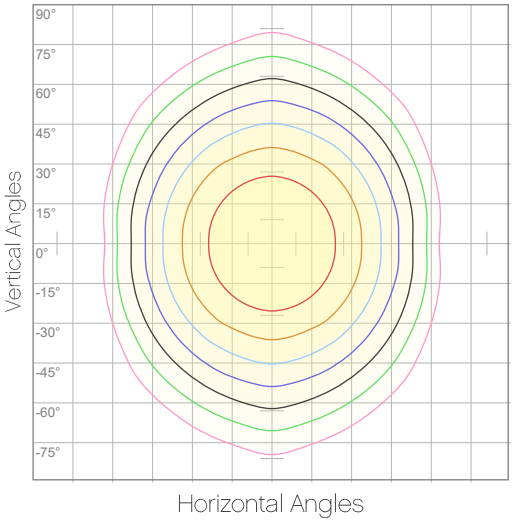
Candela Plot



Beam Angle (50%): 127.6°
Field Angle (10%): 201.9°
Cutoff Angle (3%): 240.6°

Horizontal Distribution
Vertical Distribution

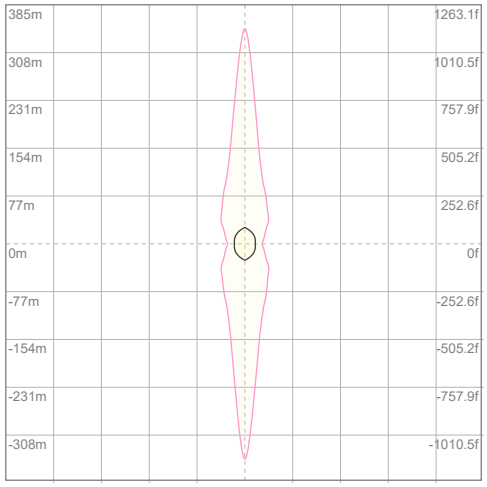
Polar Diagrams



iso-candela Diagram

10%	26 cd
20%	52 cd
30%	78 cd
40%	104 cd
50%	129 cd
60%	155 cd
70%	181 cd
80%	207 cd
90%	233 cd

Conditions:
Number of c-planes: 8
Candela at center: 259 cd



iso-illuminance Diagram

3%	77.7m lx
5%	0.129 lx
10%	0.259 lx
30%	0.777 lx
50%	1.29 lx

Conditions:
Number of c-planes: 8
Lux at center: 2.59 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 6500K – 8 HR

Report Summary

Output

Total Lumens: 723 lm
Peak Intensity: 188 cd
Illuminance @ 5m: 8 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.9°
Vertical Beam Angle (50%): 138.2°
Horizontal Field Angle (10%): 161.8°
Vertical Field Angle (10%): 233.6°
Horizontal Cutoff Angle (3%): 175°
Vertical Cutoff Angle (3%): 281.8°

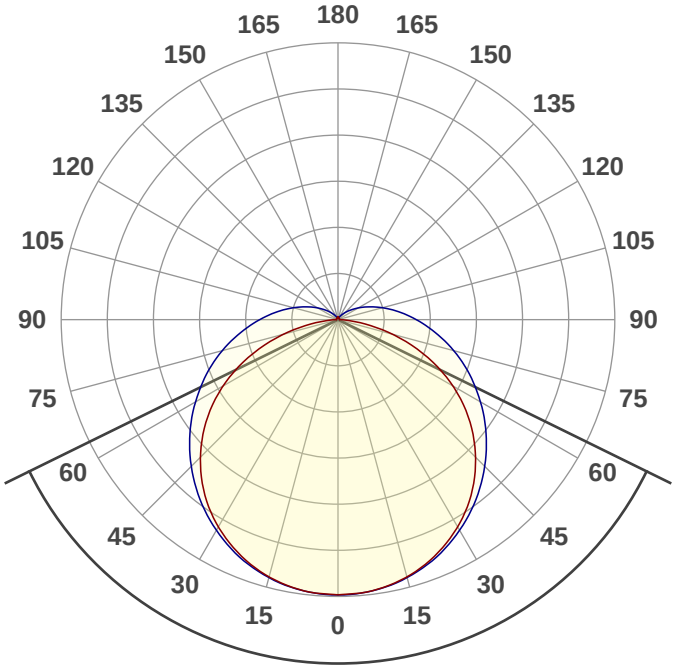
Conditions

AC Supply: 125 V, 60.1 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

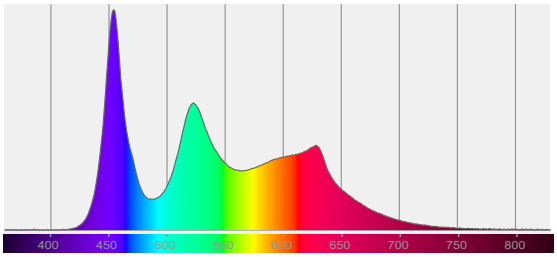
Overall Measurement

Angular Beam Distribution

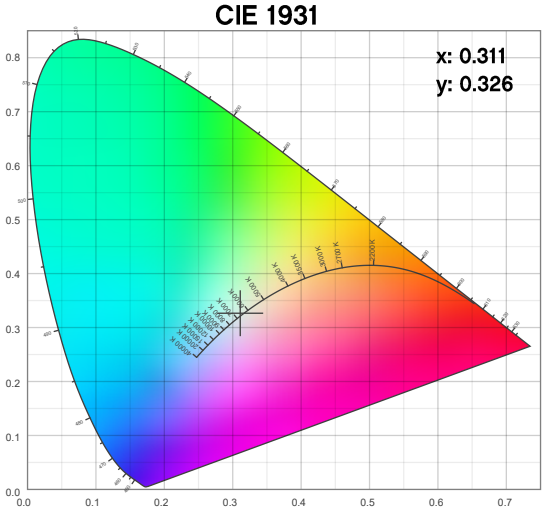


Beam Angle **127.6°**

Spectral Distribution



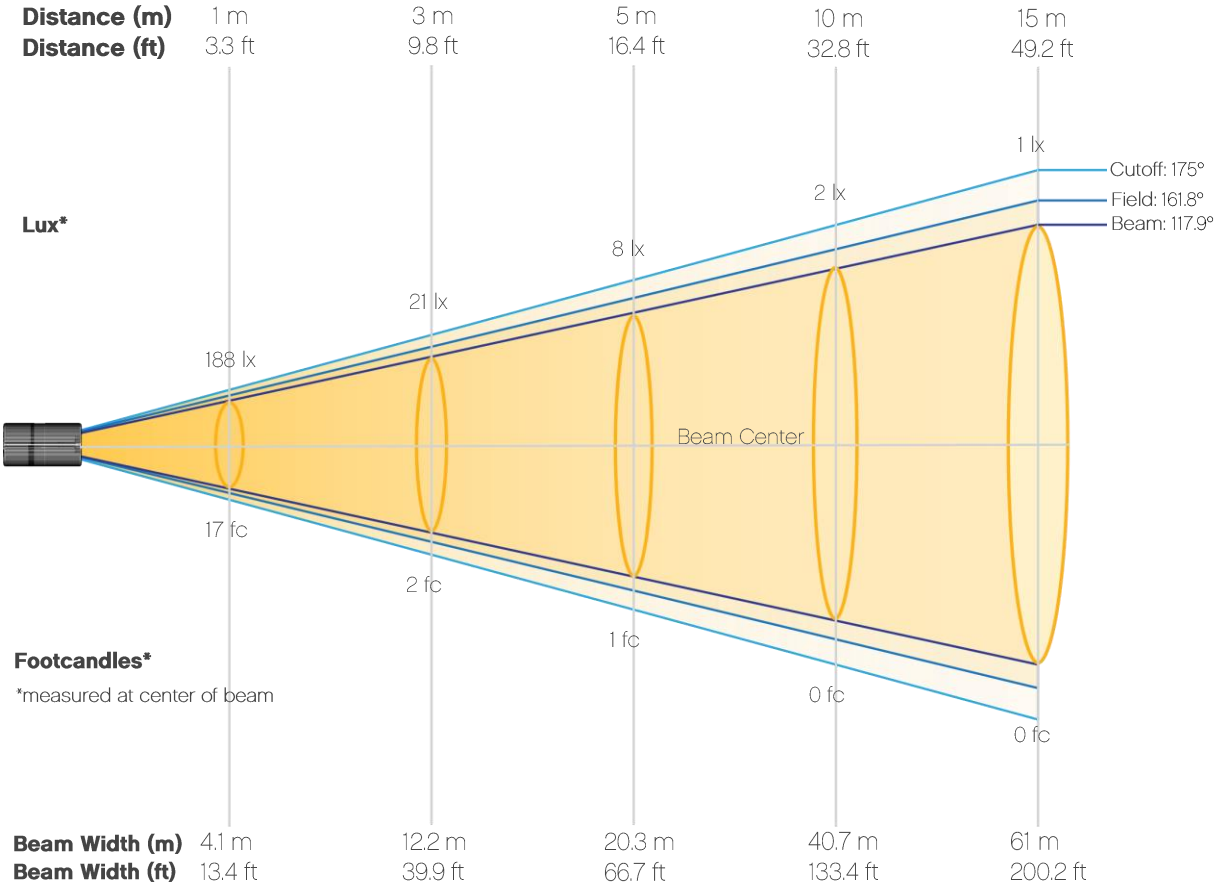
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 6500K – 8 HR

Beam Details



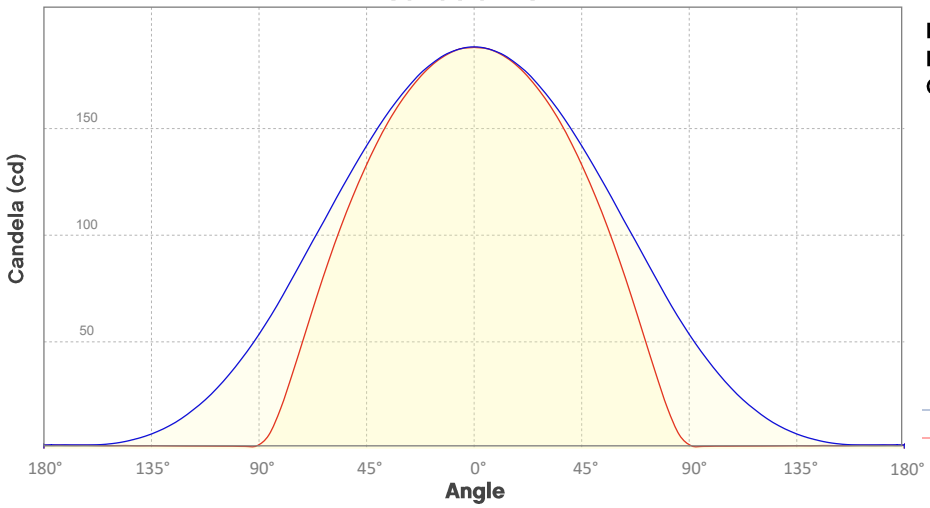
Beam Illuminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	188	47	21	12	8	5	4	3	2	2
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	2	1	1	1	1	1	1	1	1	0
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	17	4	2	1	1	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

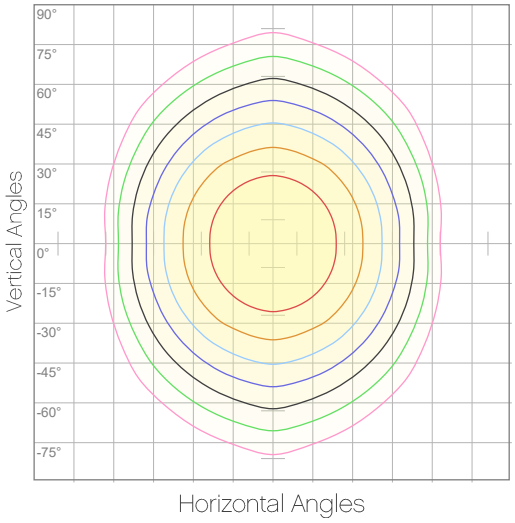
Well STX 180: Standard Optics – 6500K – 8 HR

Candela Plot



Beam Angle (50%): 127.6°
Field Angle (10%): 202°
Cutoff Angle (3%): 241.2°

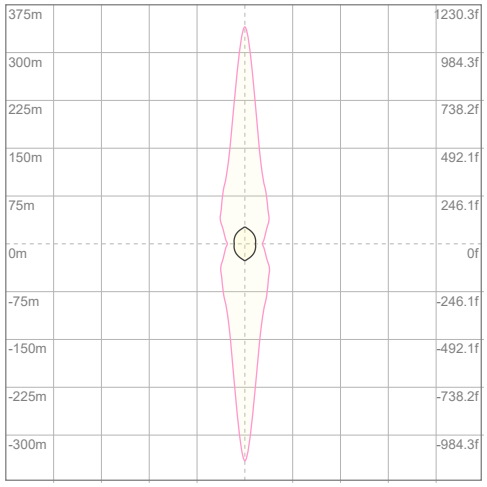
Polar Diagrams



iso-candela Diagram

10%	19 cd
20%	38 cd
30%	56 cd
40%	75 cd
50%	94 cd
60%	113 cd
70%	132 cd
80%	150 cd
90%	169 cd

Conditions:
Number of c-planes: 8
Candela at center: 188 cd



iso-illuminance Diagram

3%	56.4m lx
5%	94.0m lx
10%	0.188 lx
30%	0.564 lx
50%	0.940 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.88 lx

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

Mounting height: 10 meters / 33 feet

Photometric Report

Well STX 180: Standard Optics – 6500K – 12 HR

Report Summary

Output

Total Lumens: 427 lm
Peak Intensity: 111 cd
Illuminance @ 5m: 4 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 117.8°
Vertical Beam Angle (50%): 138°
Horizontal Field Angle (10%): 161.9°
Vertical Field Angle (10%): 233.7°
Horizontal Cutoff Angle (3%): 175°
Vertical Cutoff Angle (3%): 282°

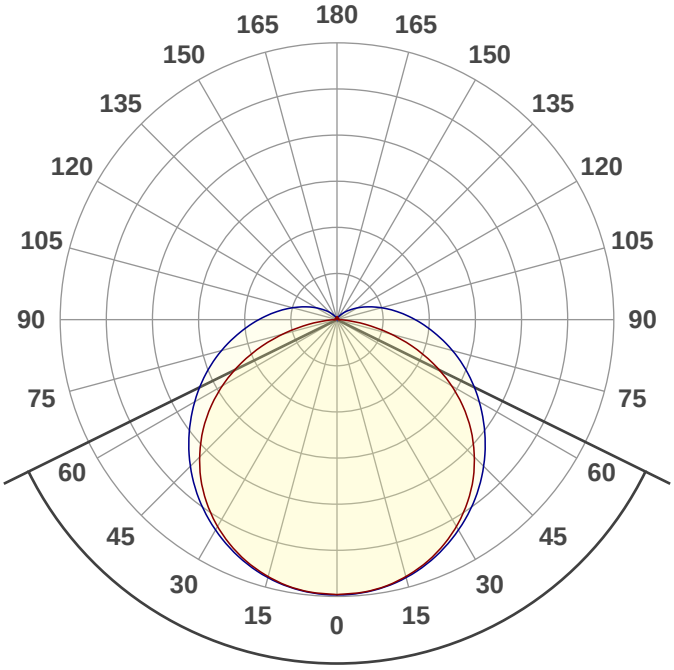
Conditions

AC Supply: 125 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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 11/11/2019 to LM-63-2002 Standards.

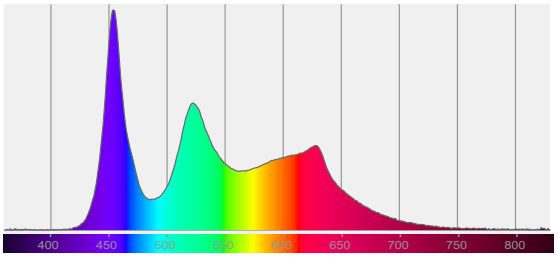
Overall Measurement

Angular Beam Distribution

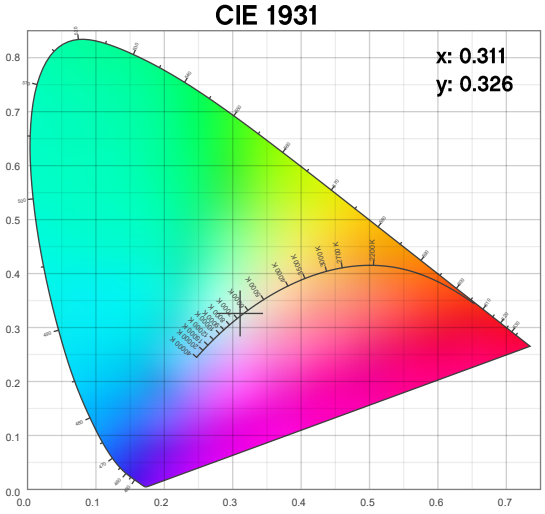


Beam Angle **127.5°**

Spectral Distribution



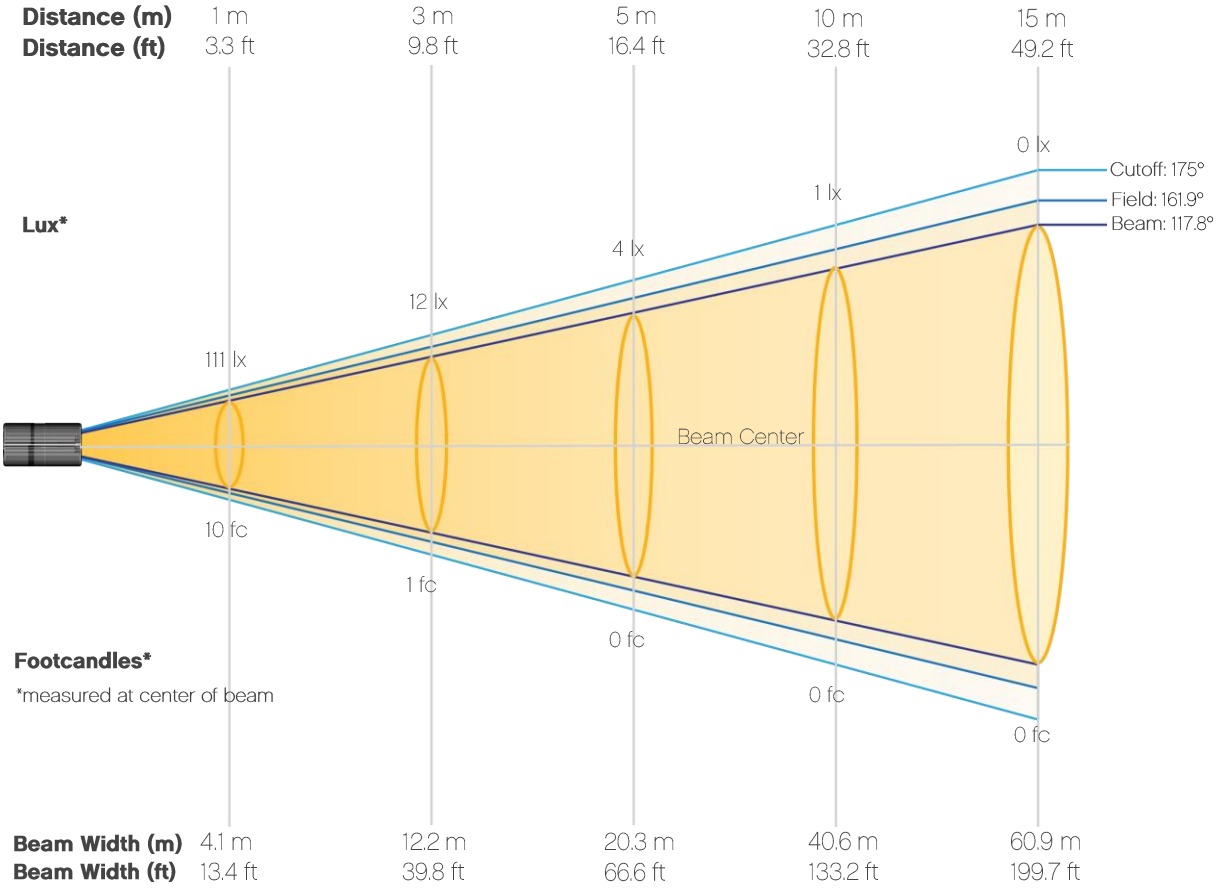
CIE 1931



Photometric Report

Well STX 180: Standard Optics – 6500K – 12 HR

Beam Details



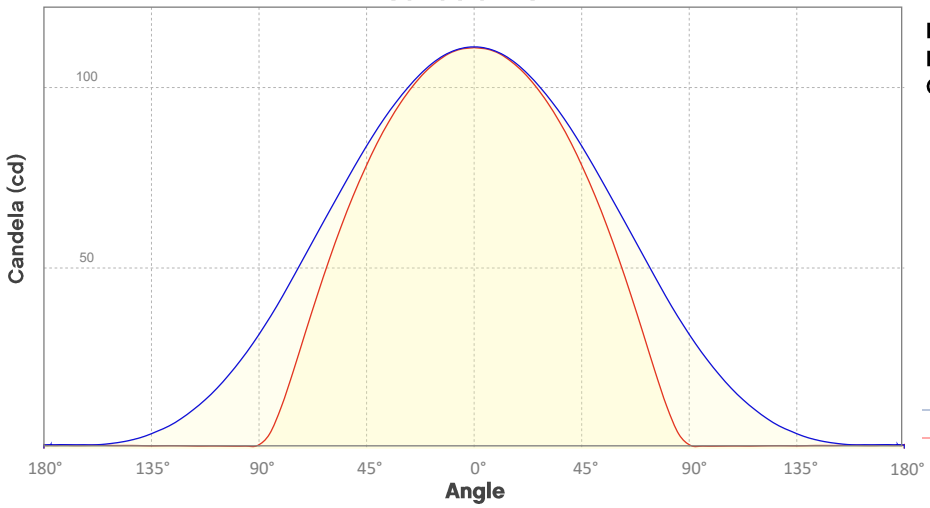
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	111	28	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	3	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

Well STX 180: Standard Optics – 6500K – 12 HR

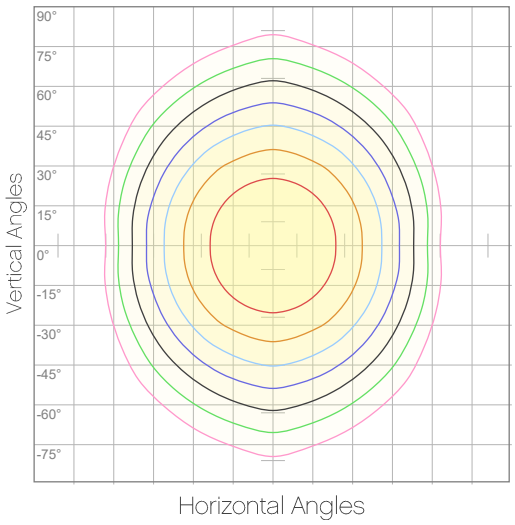
Candela Plot



Beam Angle (50%): 127.5°
Field Angle (10%): 202°
Cutoff Angle (3%): 241.5°

Horizontal Distribution
Vertical Distribution

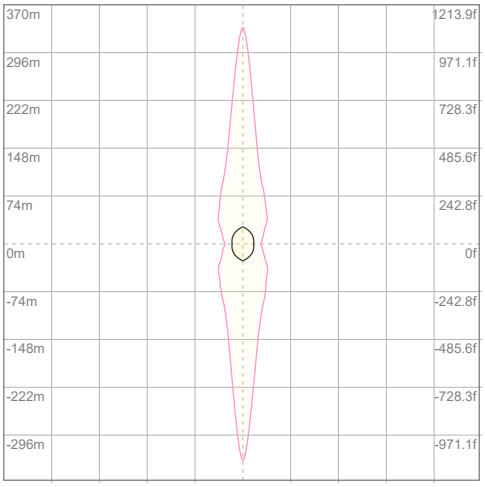
Polar Diagrams



iso-candela Diagram

10%	11 cd
20%	22 cd
30%	33 cd
40%	44 cd
50%	56 cd
60%	67 cd
70%	78 cd
80%	89 cd
90%	100 cd

Conditions:
Number of c-planes: 8
Candela at center: 111 cd



iso-illuminance Diagram

3%	33.3m lx
5%	55.5m lx
10%	0.111 lx
30%	0.333 lx
50%	0.555 lx

Conditions:
Number of c-planes: 8
Lux at center: 1.11 lx

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

Mounting height: 10 meters / 33 feet

Chromaticity Report

Well STX 180: Standard Optics – Full Power – 3 HR

Report Summary

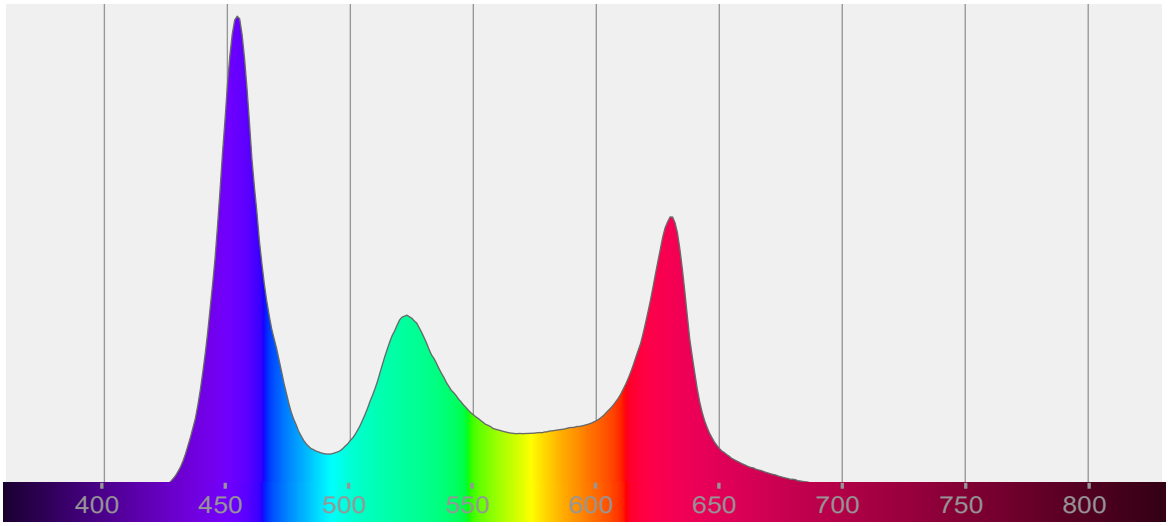
Measurements

Total Lumens: 1378 lm
Peak Intensity: 361 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 100ᵹ
Δuv: -0.0279

CRI: 59.0 CRI R9 Value: -103.8
CQS: 83.5
TLCI: 64
TM-30-18 Rf: 71.6
TM-30-18 Rg: 117.7
1st Dominant Wavelength: 454 nM
2nd Dominant Wavelength: 630 nM

Spectral Distribution



Tested Color

10050 K
CIE 1931 Coordinates:
X: 0.295 Y: 0.261

Color Temperature

10050 K

Light Quality

CRI: 59.0

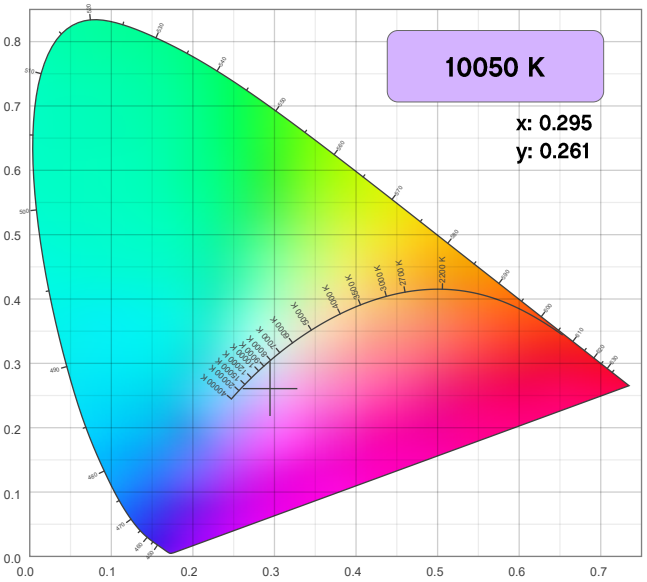
Notes:

Chromaticity Report

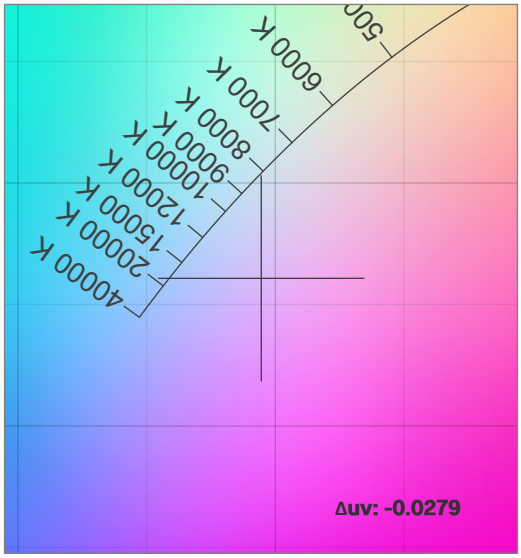
Well STX 180: Standard Optics – Full Power – 3 HR

Chromaticity

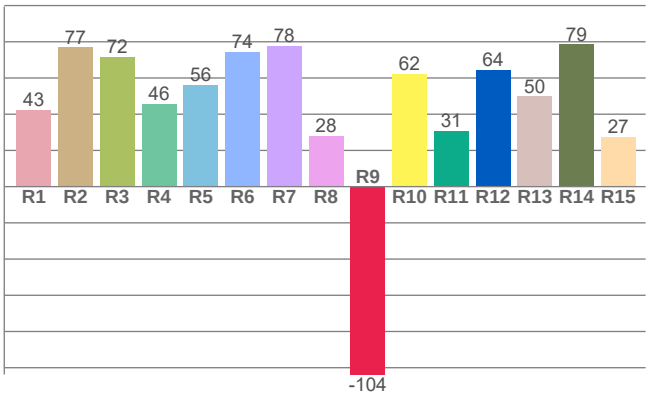
CIE 1931



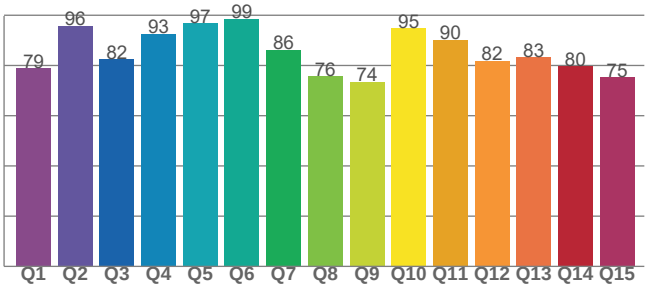
CIE 1931 - Zoom



CRI: 59.0 (R1-R8)



CQS: 83.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
10050 K	0.295	0.261

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0279	0.261	0.213

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
59.0	-103.8	83.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
64	71.6	117.7

Chromaticity Report

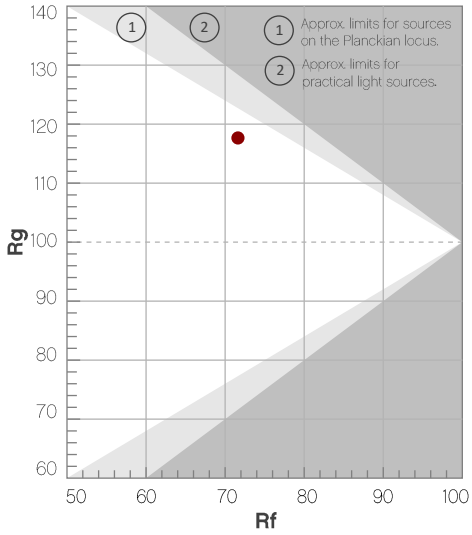
Well STX 180: Standard Optics – Full Power – 3 HR

TM-30-18 Details

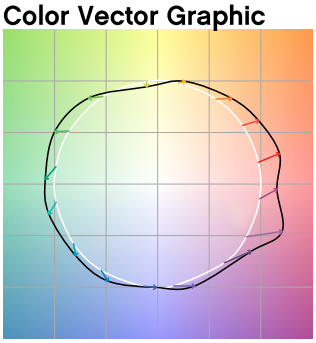
Rf 71.6
Fidelity Index (Rg)

Rg 117.7
Gamut Index (Rg)

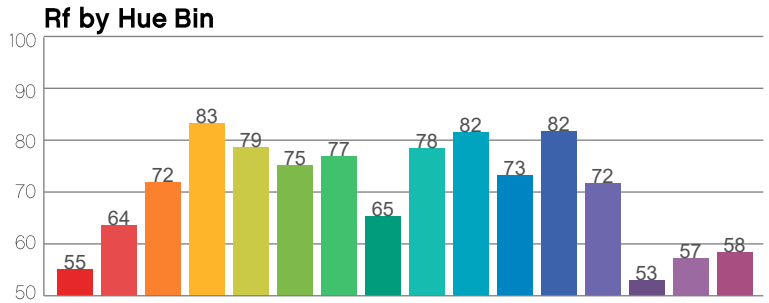
Hue Bin	R_f	Chroma Shift	Hue Shift
1	55	22%	4%
2	64	16%	-5%
3	72	9%	-12%
4	83	3%	-6%
5	79	-5%	1%
6	75	7%	12%
7	77	11%	8%
8	65	8%	14%
9	78	9%	10%
10	82	5%	11%
11	73	5%	11%
12	82	-1%	12%
13	72	4%	20%
14	53	5%	28%
15	57	26%	24%
16	58	15%	12%

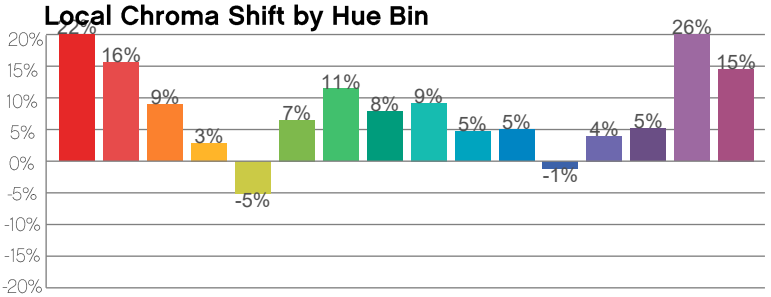


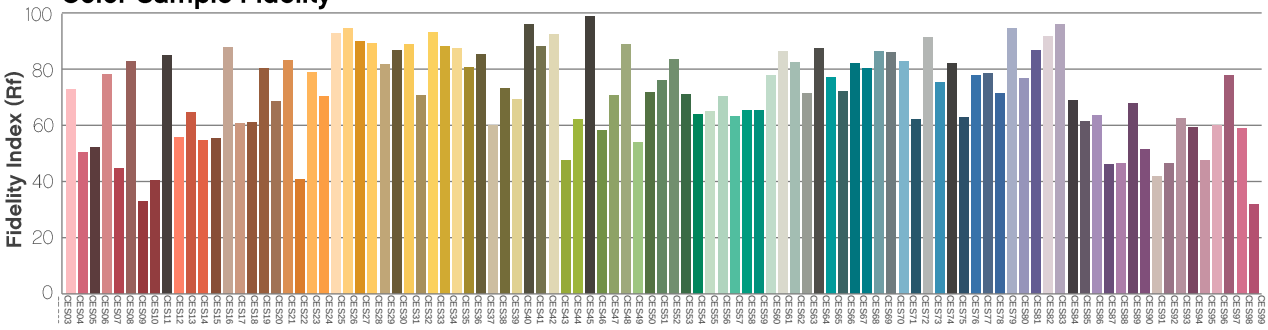
Color Vector Graphic



Color Distortion Graphic







Chromaticity Report

Well STX 180: Standard Optics – Red – 3 HR

Report Summary

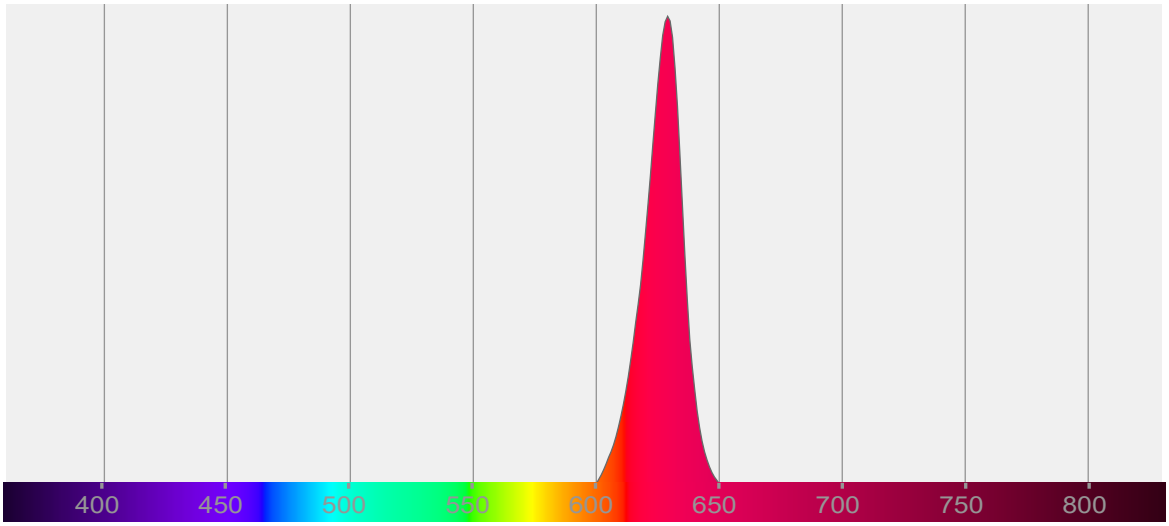
Measurements

Total Lumens: 192 lm
Peak Intensity: 49.8 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 0K
Δuv: n/a

CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30-18 Rf: 0.0
TM-30-18 Rg: 0.0
1st Dominant Wavelength: 629 nM
2nd Dominant Wavelength: n/a nM

Spectral Distribution



Tested Color

0 K
CIE 1931 Coordinates:
X: 0.694 Y: 0.304

Color Temperature

0 K

Light Quality

CRI: 0.0

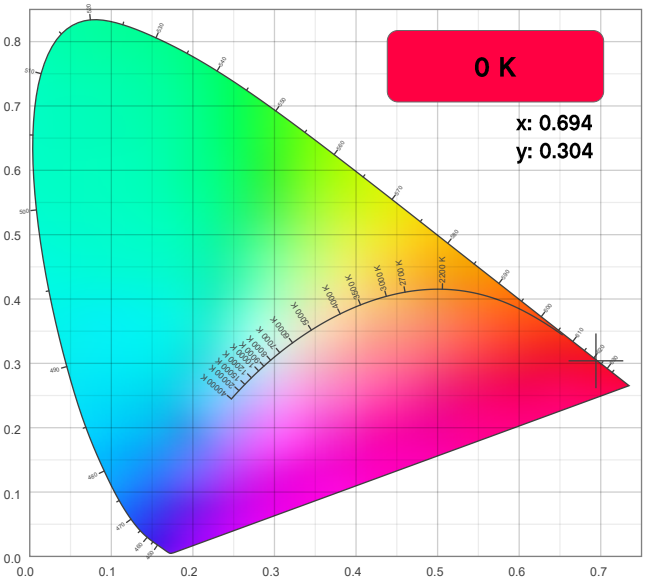
Notes:

Chromaticity Report

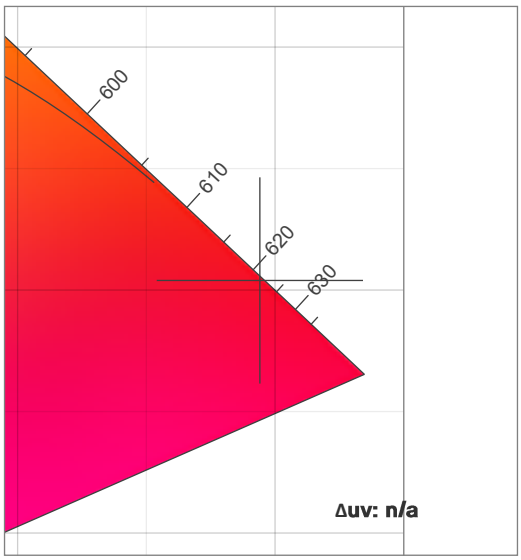
Well STX 180: Standard Optics – Red – 3 HR

Chromaticity

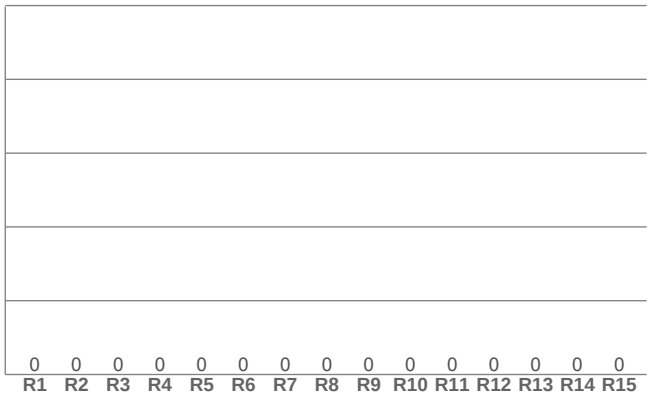
CIE 1931



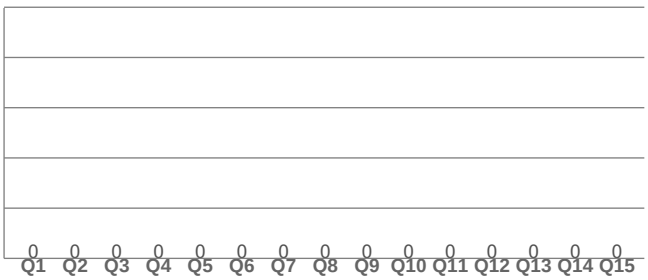
CIE 1931 - Zoom



CRI: 0.0 (R1-R8)



CQS: 0.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.694	0.304

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.304	0.528

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
n/a	0.0	0.0

Chromaticity Report

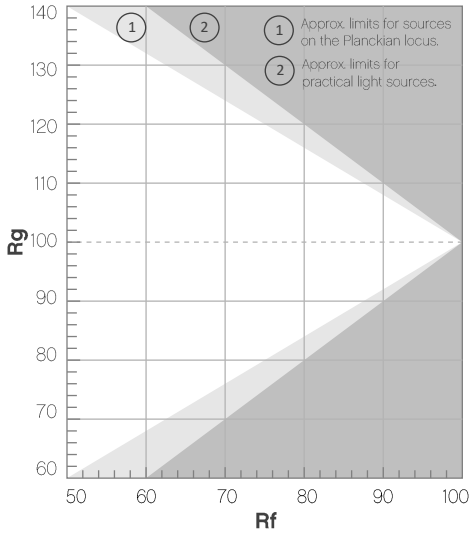
Well STX 180: Standard Optics – Red – 3 HR

TM-30-18 Details

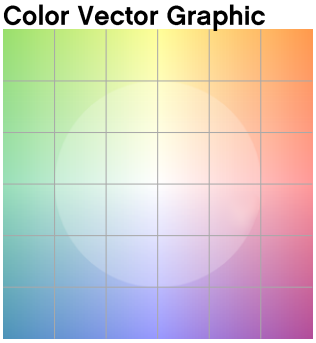
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gamut Index (Rg)

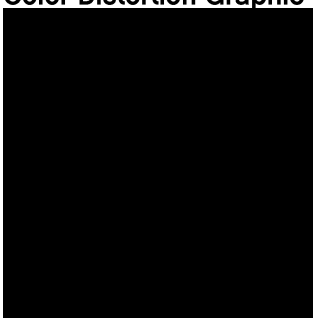
Hue Bin	R_f	Chroma Shift	Hue Shift
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



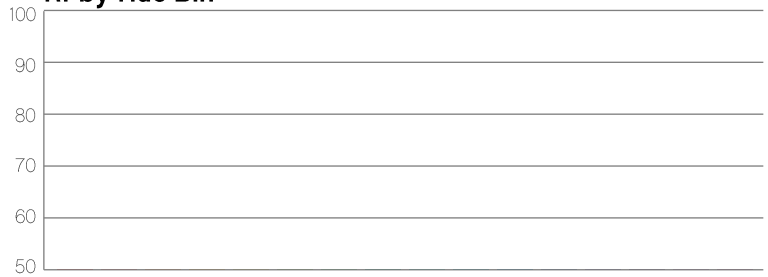
Color Vector Graphic



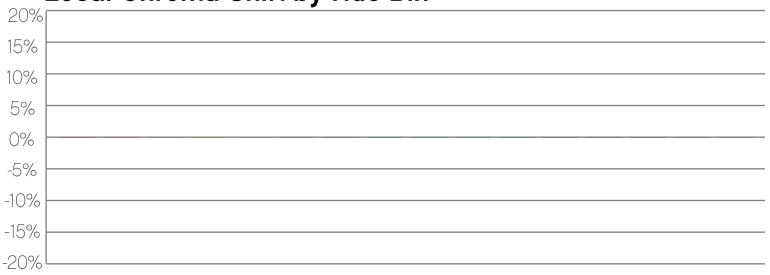
Color Distortion Graphic



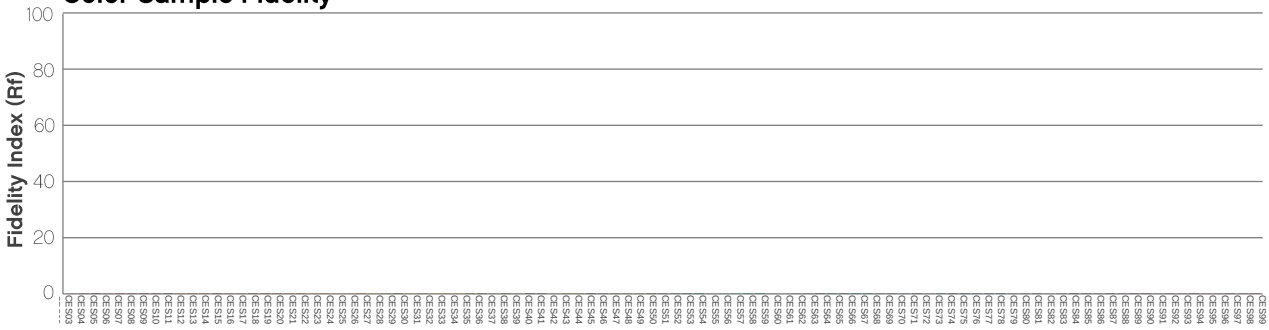
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Well STX 180: Standard Optics – Green – 3 HR

Report Summary

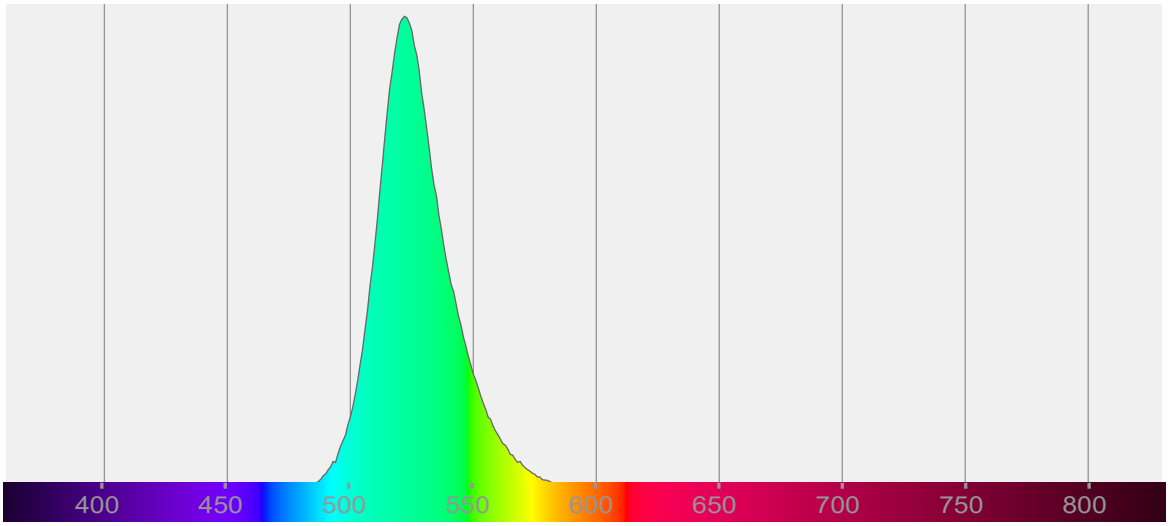
Measurements

Total Lumens: 187 lm
Peak Intensity: 48.2 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 0K
Δuv: n/a

CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30-18 Rf: 0.0
TM-30-18 Rg: 0.0
1st Dominant Wavelength: 522 nM
2nd Dominant Wavelength: n/a nM

Spectral Distribution



Tested Color

0 K
CIE 1931 Coordinates:
X: 0.181 Y: 0.733

Color Temperature

0 K

Light Quality

CRI: 0.0

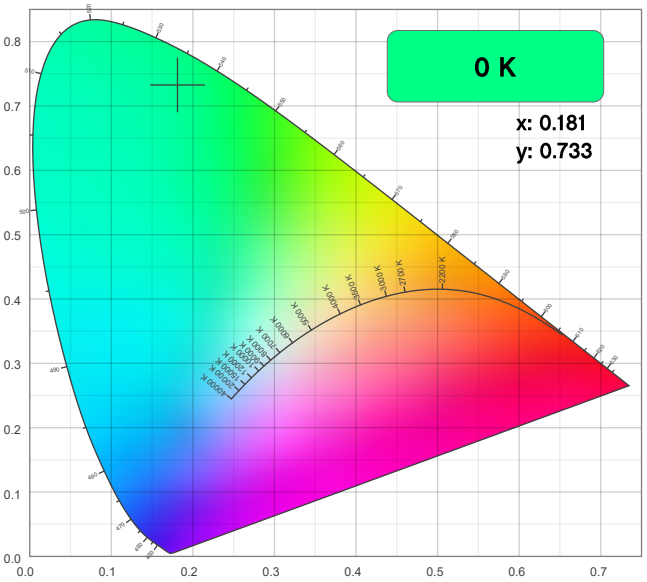
Notes:

Chromaticity Report

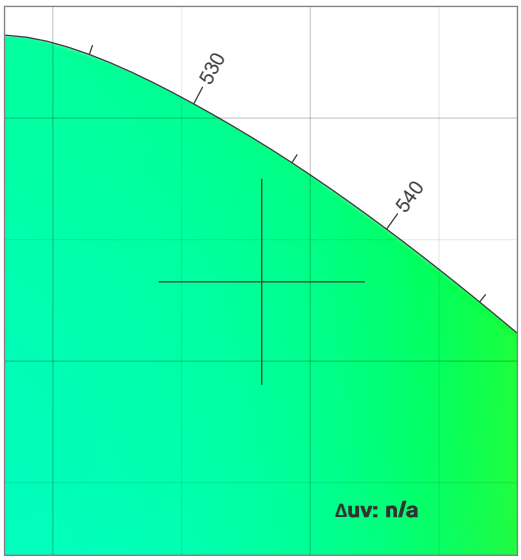
Well STX 180: Standard Optics – Green – 3 HR

Chromaticity

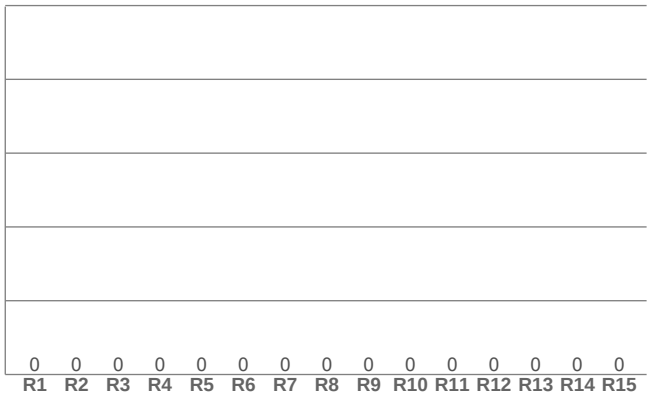
CIE 1931



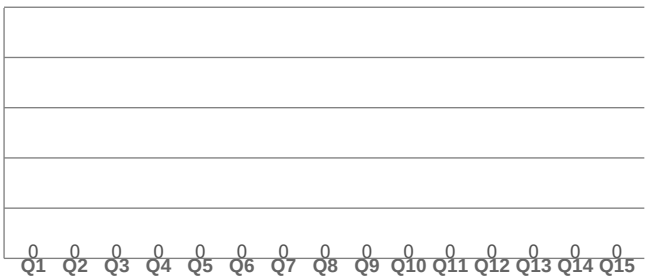
CIE 1931 - Zoom



CRI: 0.0 (R1-R8)



CQS: 0.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.181	0.733

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.733	0.063

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
n/a	0.0	0.0

Chromaticity Report

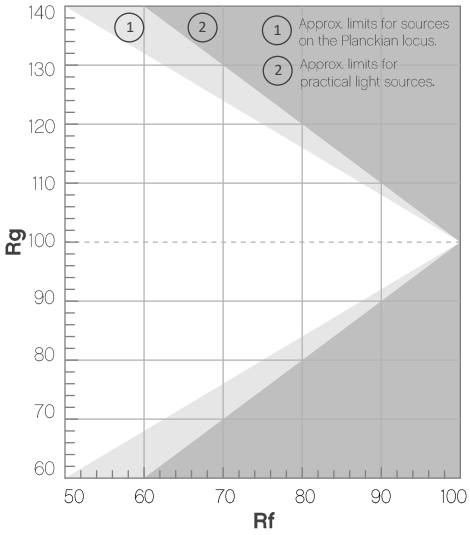
Well STX 180: Standard Optics – Green – 3 HR

TM-30-18 Details

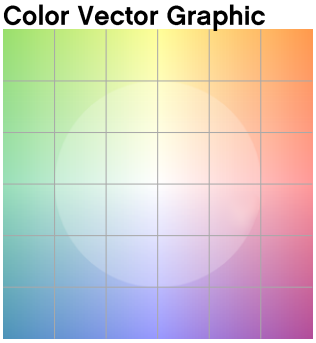
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gamut Index (Rg)

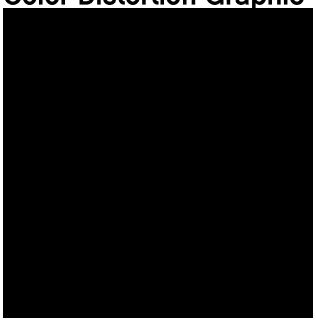
Hue Bin	R_f	Chroma Shift	Hue Shift
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



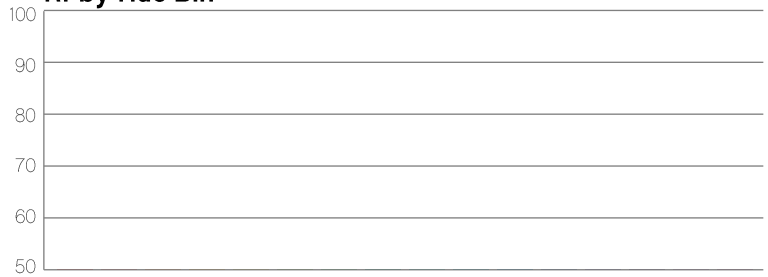
Color Vector Graphic



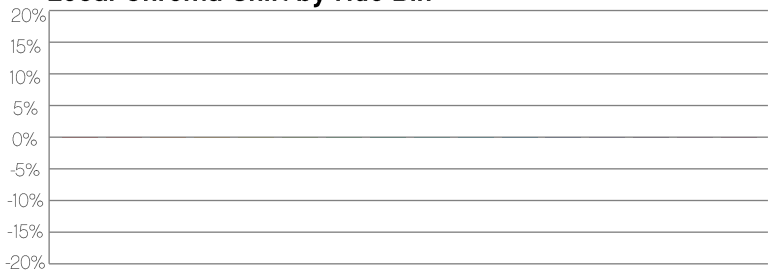
Color Distortion Graphic



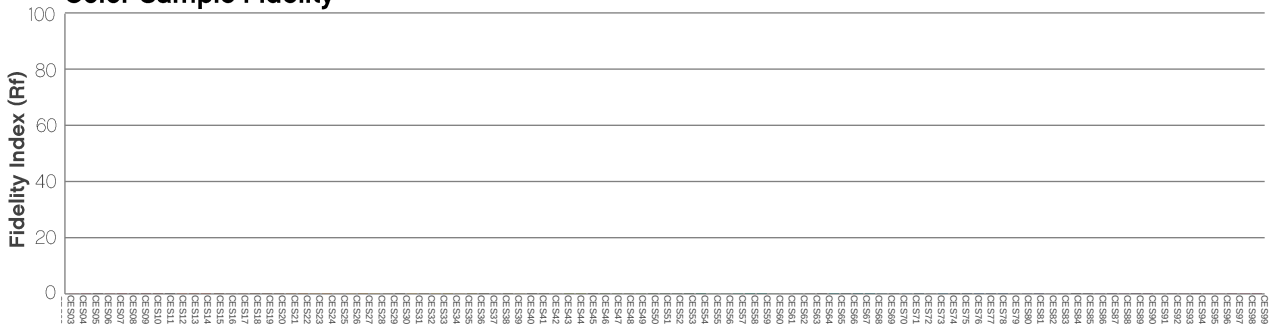
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Well STX 180: Standard Optics – Blue – 3 HR

Report Summary

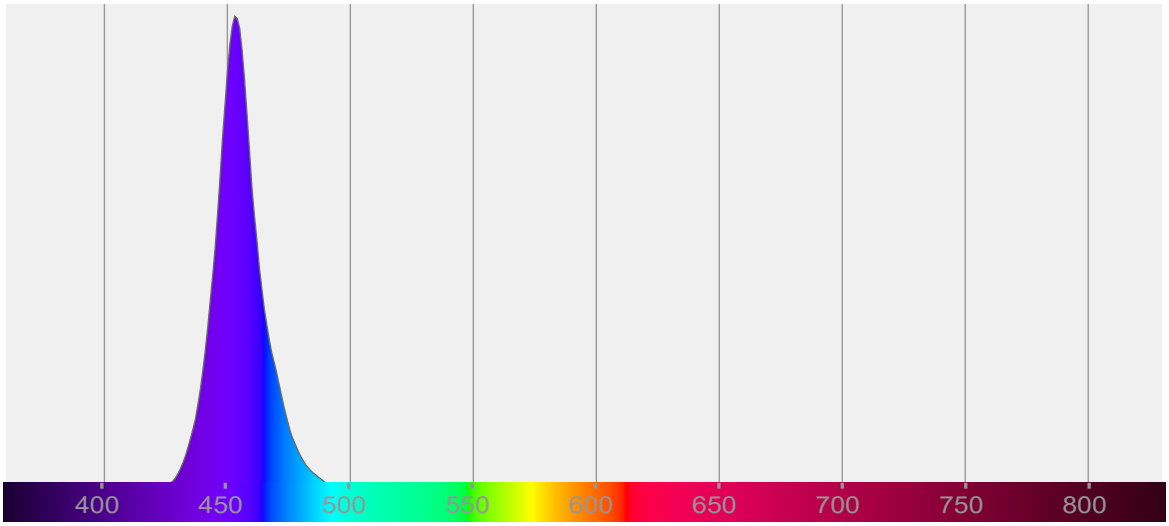
Measurements

Total Lumens: 86.3 lm
Peak Intensity: 22.0 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 0K
Δuv: n/a

CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30-18 Rf: 0.0
TM-30-18 Rg: 0.0
1st Dominant Wavelength: 453 nM
2nd Dominant Wavelength: n/a nM

Spectral Distribution



Tested Color

0 K
CIE 1931 Coordinates:
X: 0.150 Y: 0.031

Color Temperature

0 K

Light Quality

CRI: 0.0

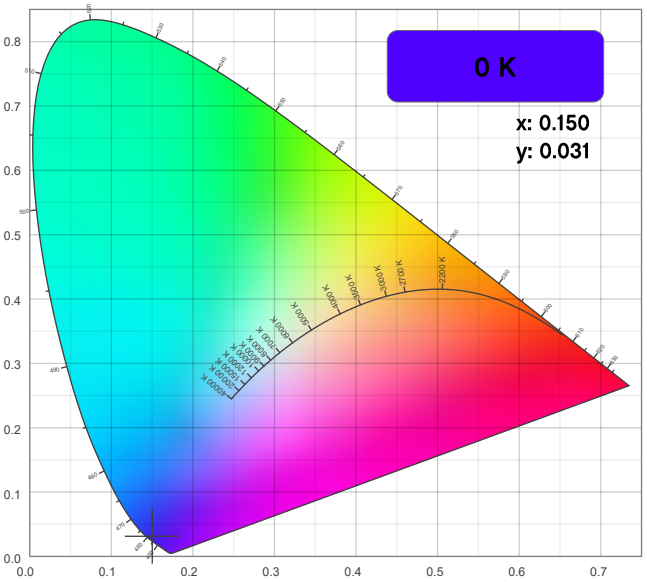
Notes:

Chromaticity Report

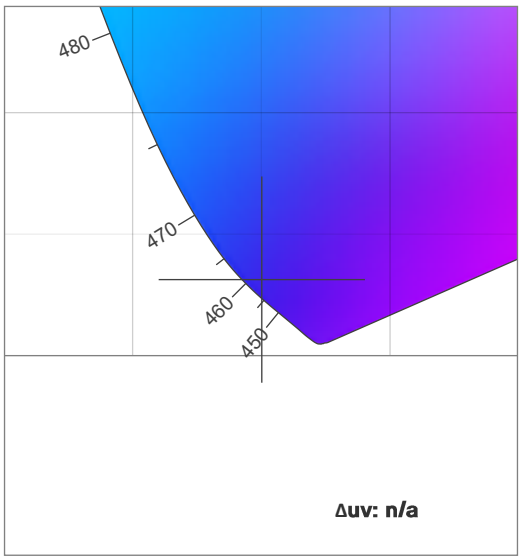
Well STX 180: Standard Optics – Blue – 3 HR

Chromaticity

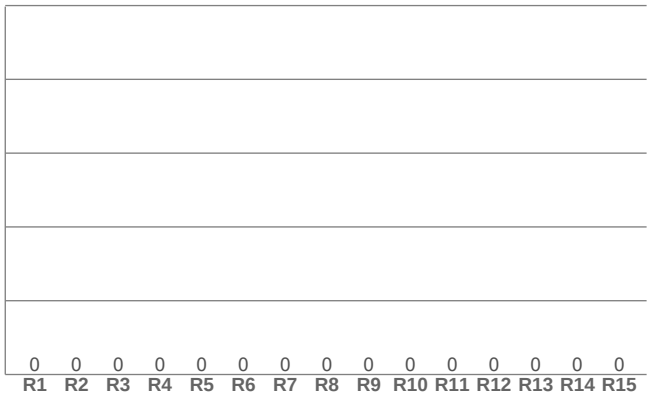
CIE 1931



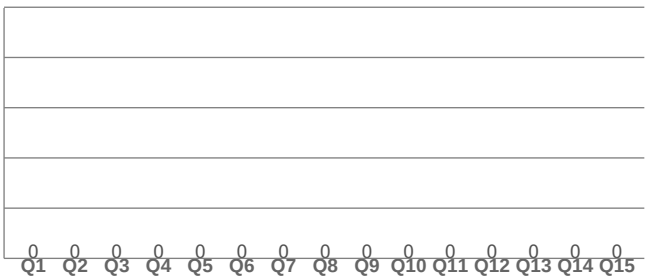
CIE 1931 - Zoom



CRI: 0.0 (R1-R8)



CQS: 0.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
0 K	0.150	0.031

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.031	0.195

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
0.0	0.0	0.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
n/a	0.0	0.0

Chromaticity Report

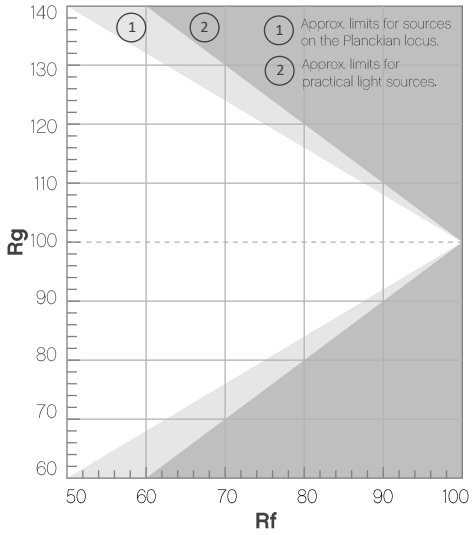
Well STX 180: Standard Optics – Blue – 3 HR

TM-30-18 Details

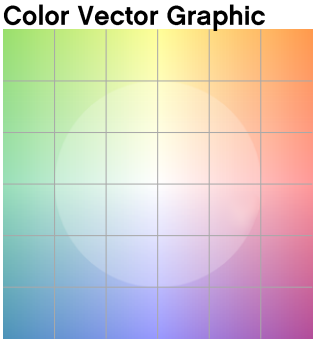
Rf 0.0
Fidelity Index (Rg)

Rg 0.0
Gamut Index (Rg)

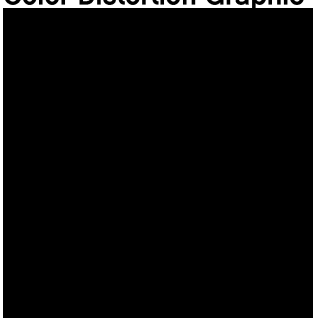
Hue Bin	R_f	Chroma Shift	Hue Shift
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



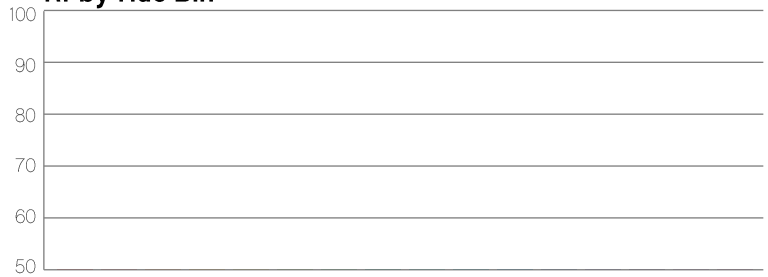
Color Vector Graphic



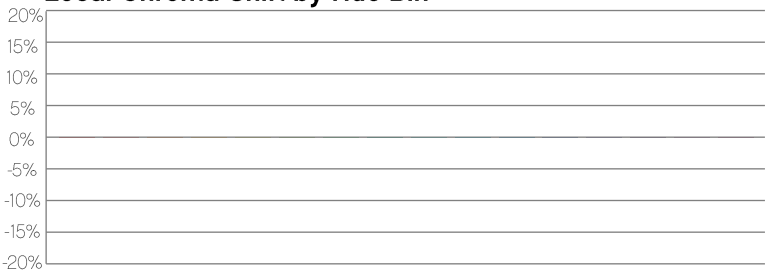
Color Distortion Graphic



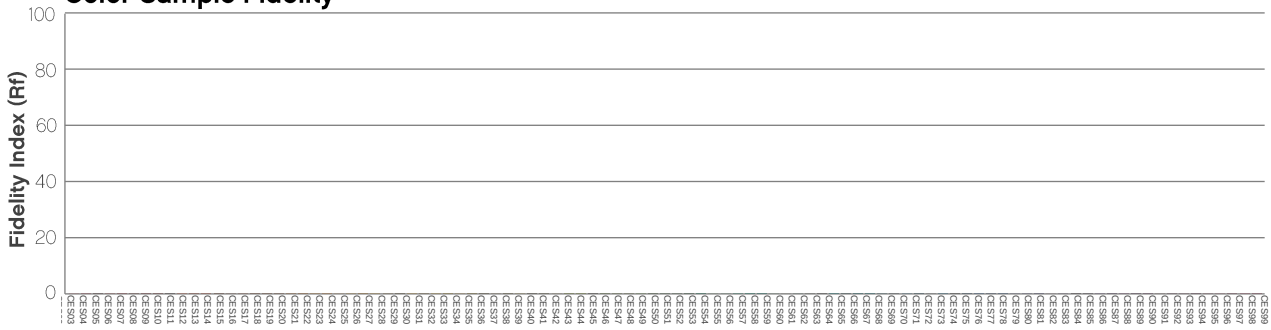
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Well STX 180: Standard Optics – Warm White – 3 HR

Report Summary

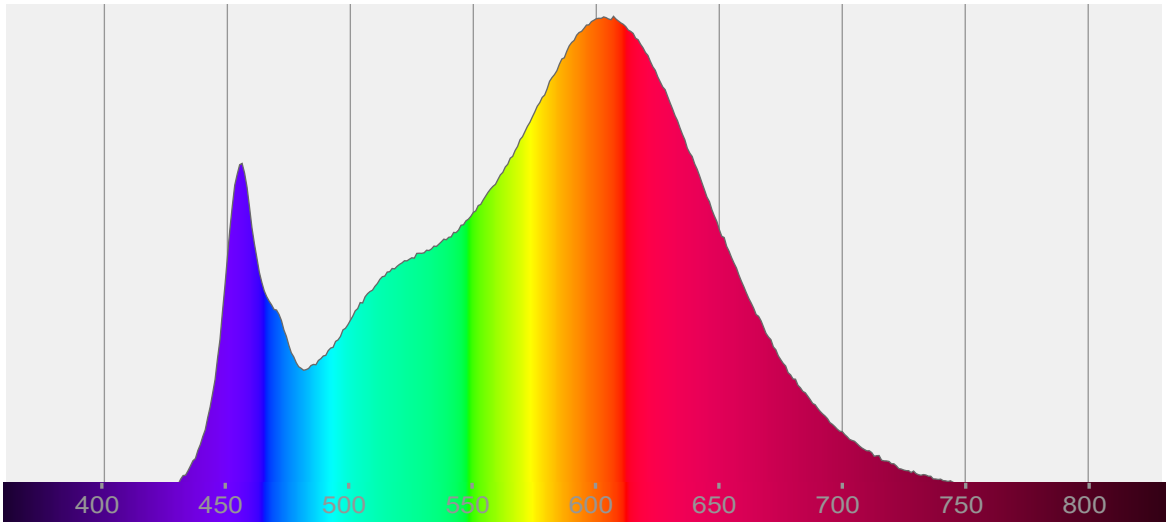
Measurements

Total Lumens: 638 lm
Peak Intensity: 167 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 3136
Δuv: -0.0016

CRI: 84.9 CRI R9 Value: 15.2
CQS: 83.9
TLCI: 73
TM-30-18 Rf: 83.3
TM-30-18 Rg: 94.0
1st Dominant Wavelength: 607 nM
2nd Dominant Wavelength: 456 nM

Spectral Distribution



Tested Color

3136 K
CIE 1931 Coordinates:
X: 0.426 Y: 0.396

Color Temperature

3136 K

Light Quality

CRI: 84.9

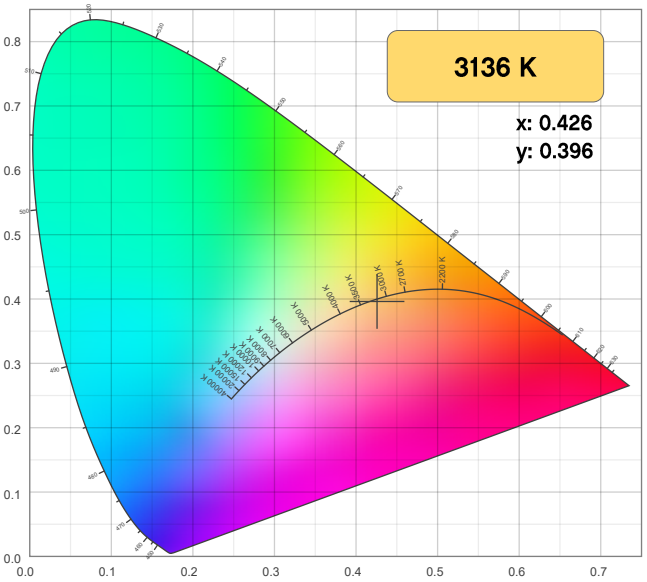
Notes:

Chromaticity Report

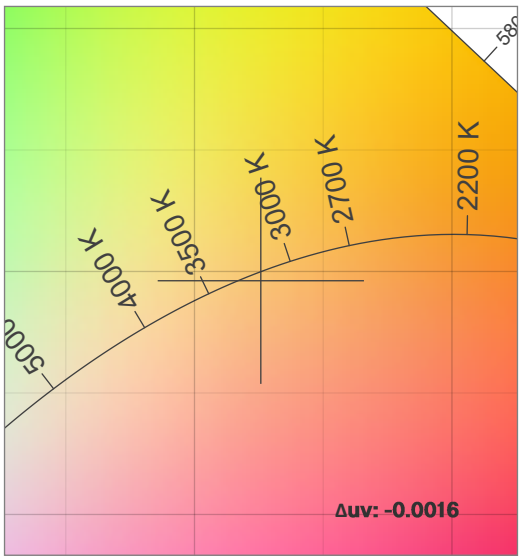
Well STX 180: Standard Optics – Warm White – 3 HR

Chromaticity

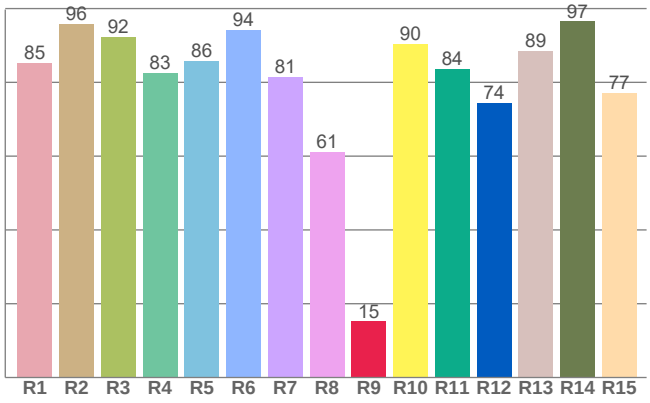
CIE 1931



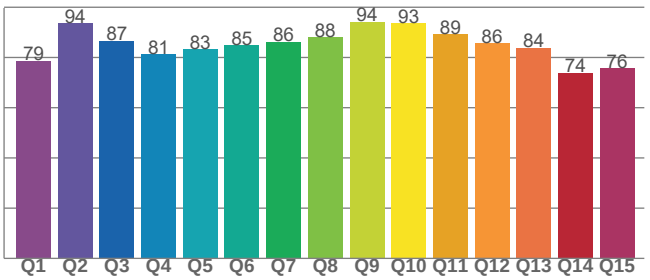
CIE 1931 - Zoom



CRI: 84.9 (R1-R8)



CQS: 83.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3136 K	0.426	0.396

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0016	0.396	0.247

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.9	15.2	83.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
73	83.3	94.0

Chromaticity Report

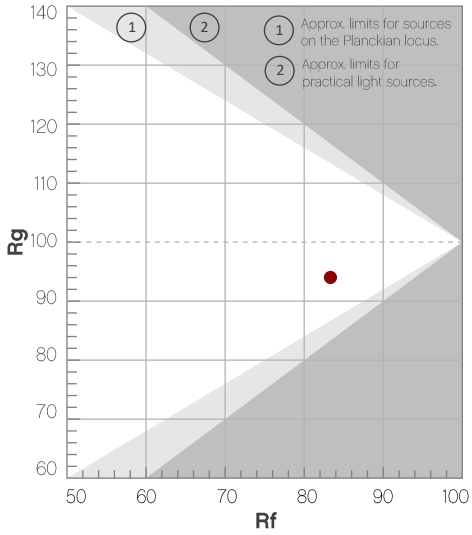
Well STX 180: Standard Optics – Warm White – 3 HR

TM-30-18 Details

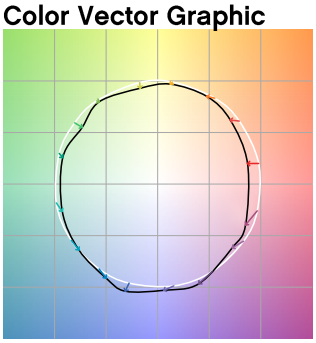
Rf 83.3
Fidelity Index (Rg)

Rg 94.0
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	78	-11%	2%
2	82	-7%	6%
3	83	-3%	7%
4	91	-2%	2%
5	90	-6%	1%
6	93	-2%	-2%
7	84	-9%	0%
8	90	-4%	3%
9	84	-4%	9%
10	77	-1%	12%
11	82	4%	10%
12	85	8%	-2%
13	84	2%	-10%
14	77	3%	-17%
15	77	-6%	-11%
16	73	-8%	-16%

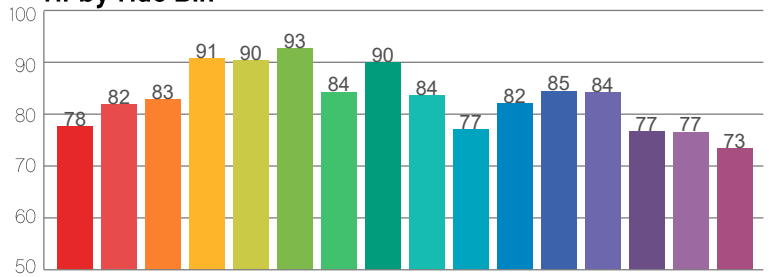


Color Vector Graphic

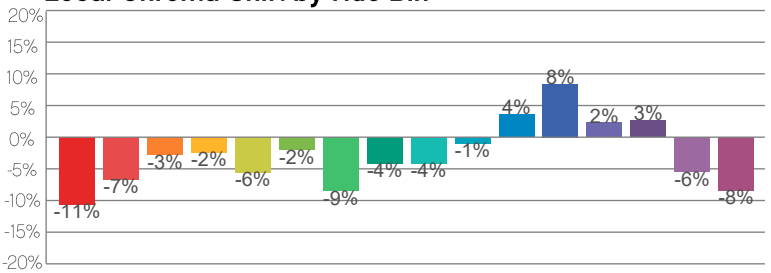


Color Distortion Graphic

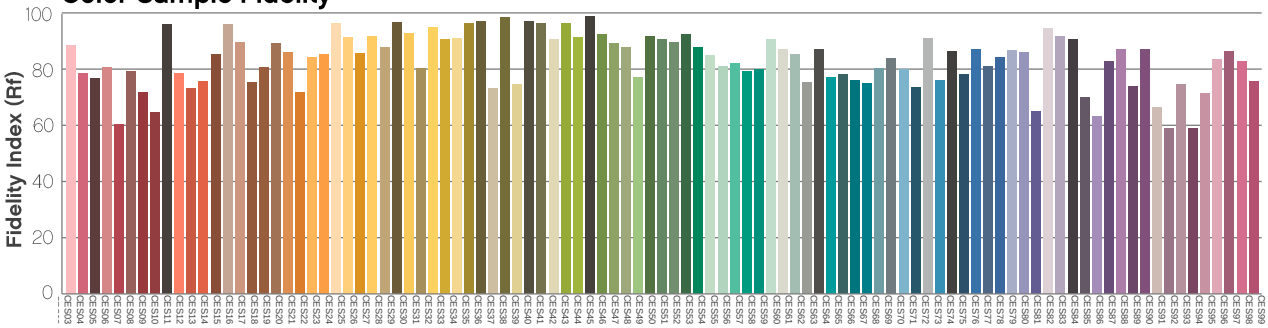
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Well STX 180: Standard Optics – 2800K – 3 HR

Report Summary

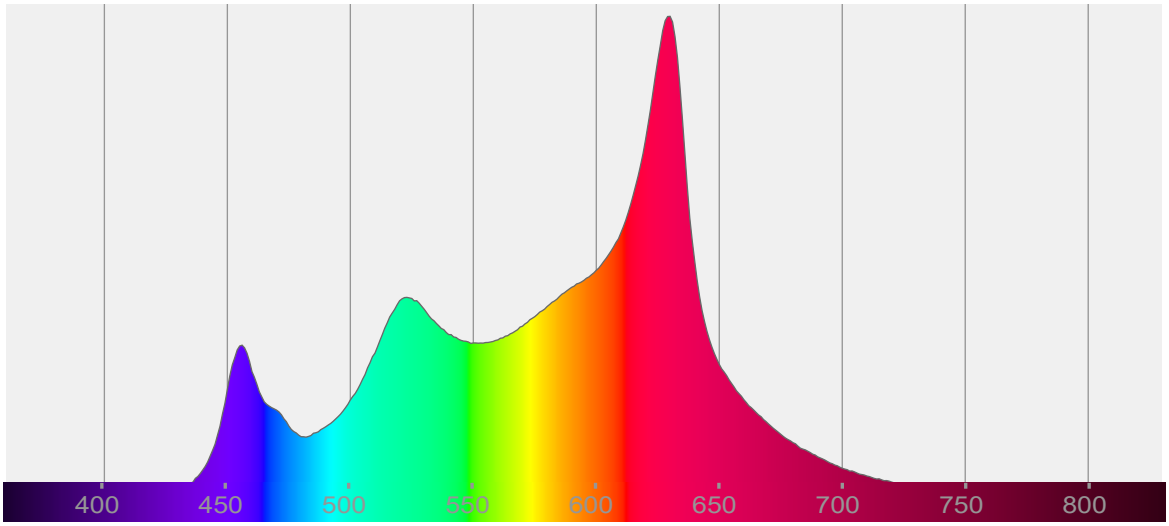
Measurements

Total Lumens: 808 lm
Peak Intensity: 211 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 295˙
Δuv: 0.0009

CRI: 93.2 CRI R9 Value: 92.7
CQS: 92.4
TLCI: 86
TM-30-18 Rf: 89.3
TM-30-18 Rg: 100.6
1st Dominant Wavelength: 630 nM
2nd Dominant Wavelength: 523 nM

Spectral Distribution



Tested Color

2951 K
CIE 1931 Coordinates:
X: 0.442 Y: 0.408

Color Temperature

2951 K

Light Quality

CRI: 93.2

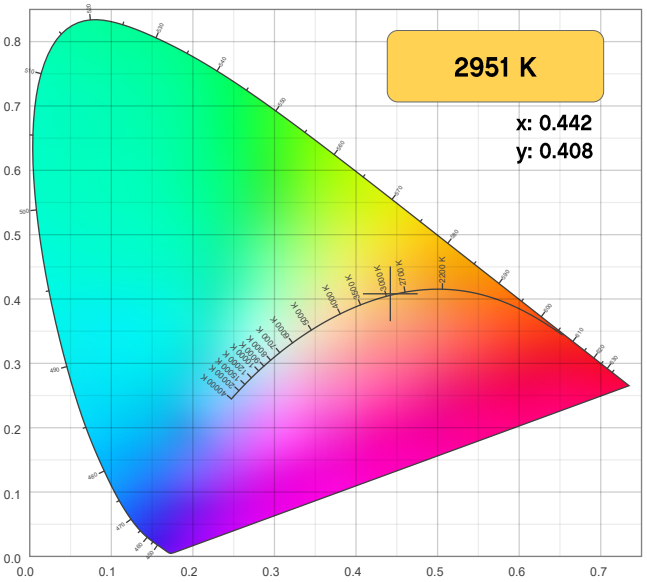
Notes:

Chromaticity Report

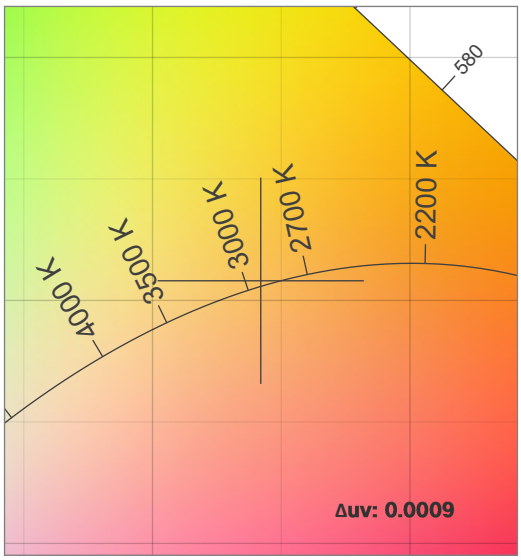
Well STX 180: Standard Optics – 2800K – 3 HR

Chromaticity

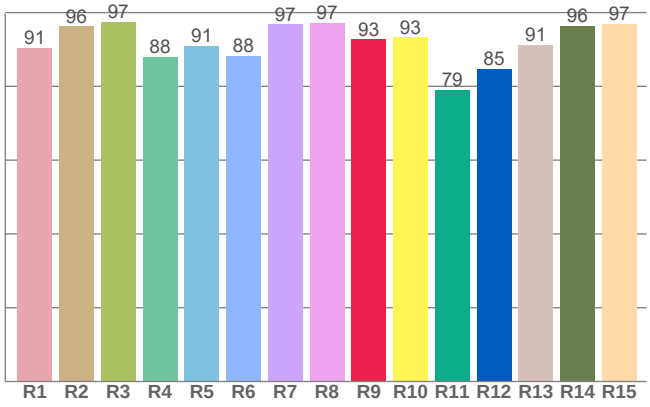
CIE 1931



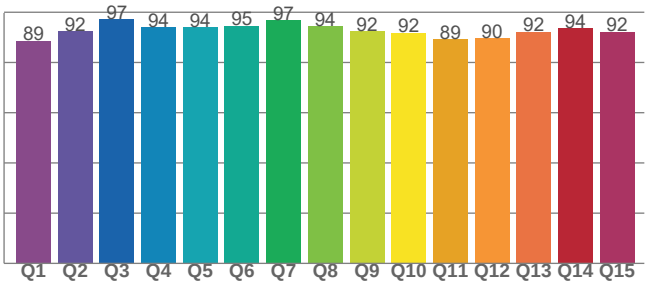
CIE 1931 - Zoom



CRI: 93.2 (R1-R8)



CQS: 92.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2951 K	0.442	0.408

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0009	0.408	0.252

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
93.2	92.7	92.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
86	89.3	100.6

Chromaticity Report

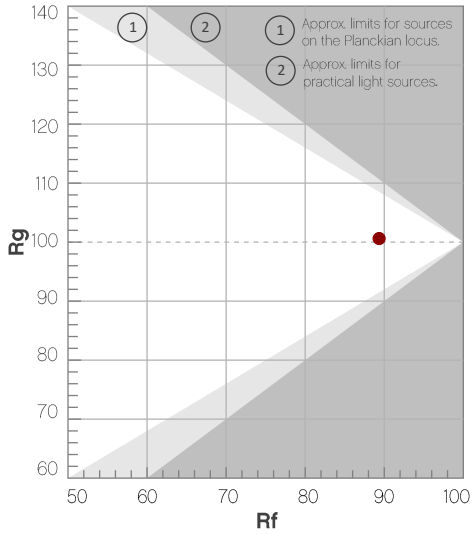
Well STX 180: Standard Optics – 2800K – 3 HR

TM-30-18 Details

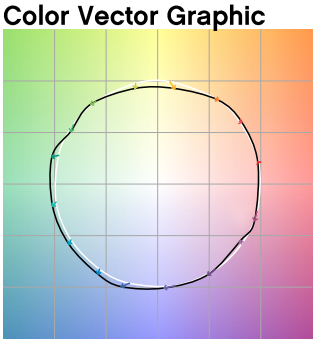
Rf 89.3
Fidelity Index (Rg)

Rg 100.6
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	92	-1%	1%
2	93	1%	-2%
3	90	0%	-3%
4	87	-6%	-6%
5	91	-5%	1%
6	91	1%	6%
7	86	-1%	7%
8	88	6%	3%
9	90	4%	3%
10	91	4%	2%
11	92	5%	1%
12	84	5%	-7%
13	84	0%	-12%
14	87	0%	-9%
15	88	-3%	2%
16	86	-1%	-9%

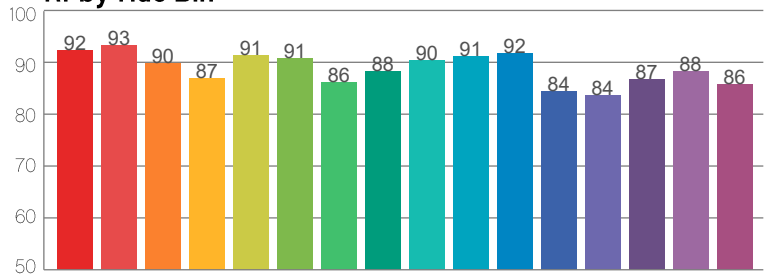


Color Vector Graphic

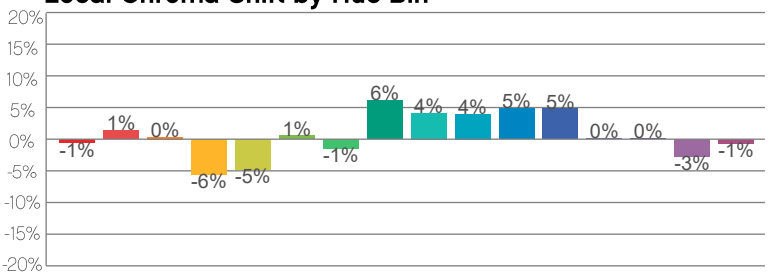


Color Distortion Graphic

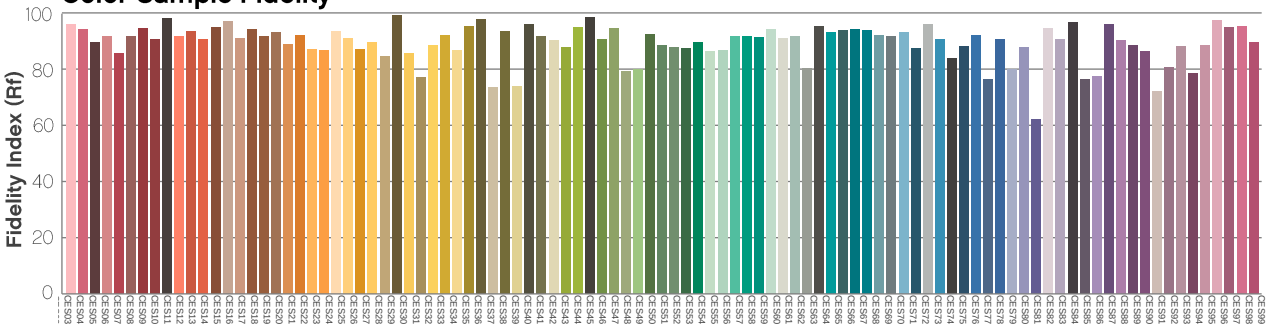
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Well STX 180: Standard Optics – 3200K – 3 HR

Report Summary

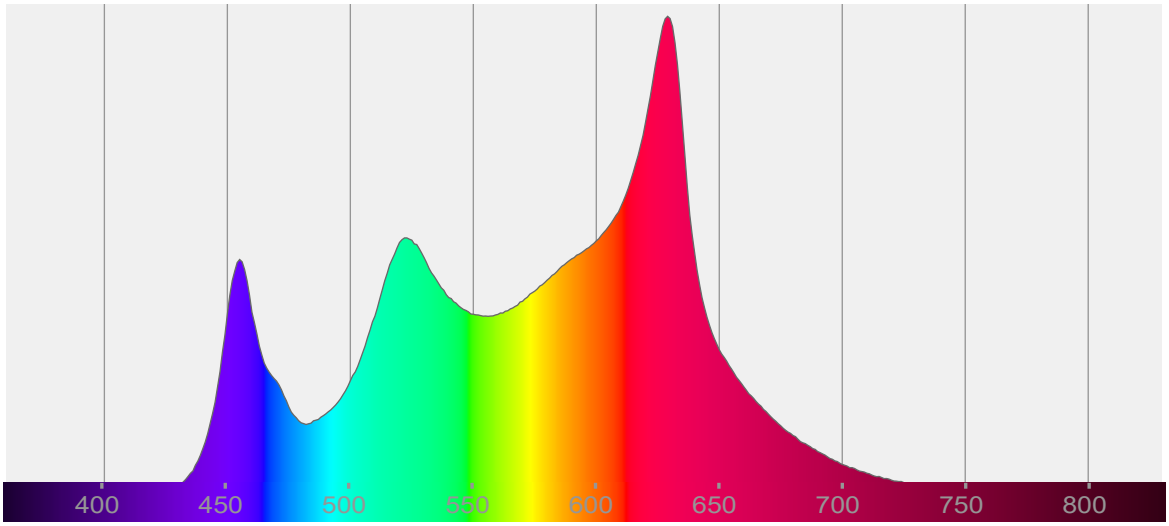
Measurements

Total Lumens: 830 lm
Peak Intensity: 217 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 333
Δuv: 0.0009

CRI: 94.2 CRI R9 Value: 93.4
CQS: 94.0
TLCI: 88
TM-30-18 Rf: 90.1
TM-30-18 Rg: 101.9
1st Dominant Wavelength: 629 nM
2nd Dominant Wavelength: 523 nM

Spectral Distribution



Tested Color

3335 K
CIE 1931 Coordinates:
X: 0.416 Y: 0.398

Color Temperature

3335 K

Light Quality

CRI: 94.2

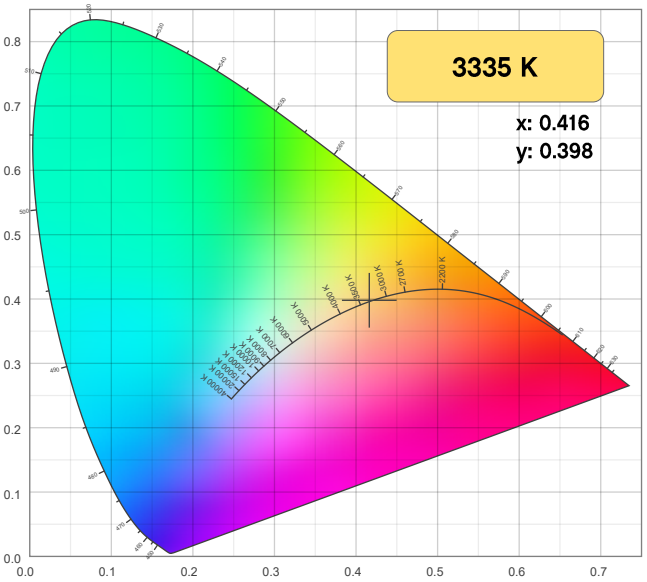
Notes:

Chromaticity Report

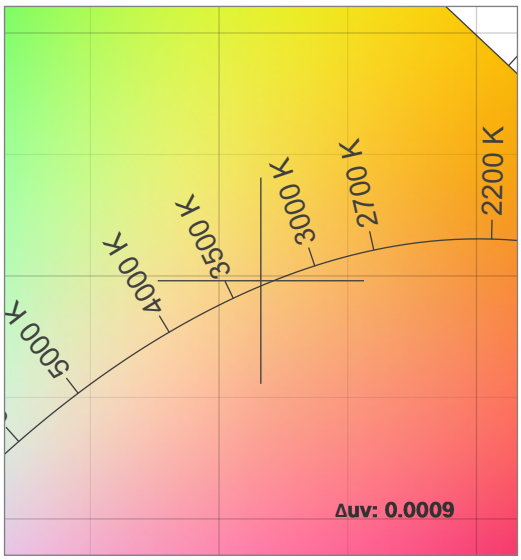
Well STX 180: Standard Optics – 3200K – 3 HR

Chromaticity

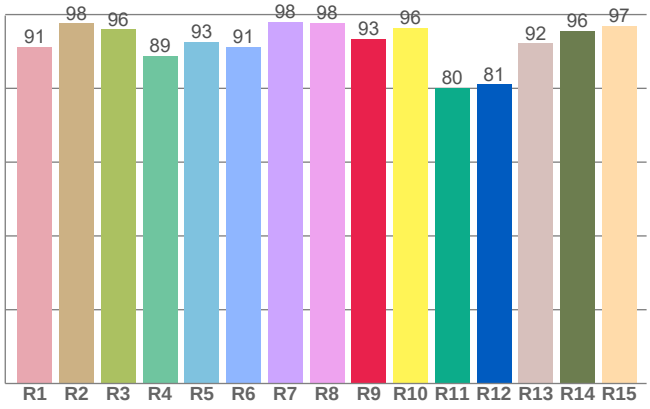
CIE 1931



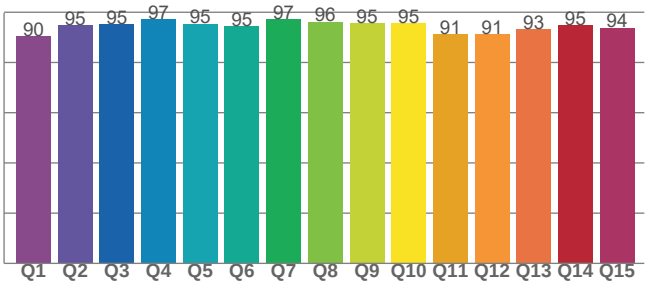
CIE 1931 - Zoom



CRI: 94.2 (R1-R8)



CQS: 94.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3335 K	0.416	0.398

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0009	0.398	0.240

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.2	93.4	94.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
88	90.1	101.9

Chromaticity Report

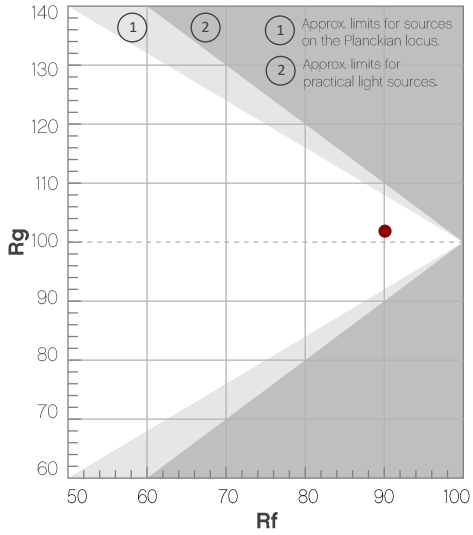
Well STX 180: Standard Optics – 3200K – 3 HR

TM-30-18 Details

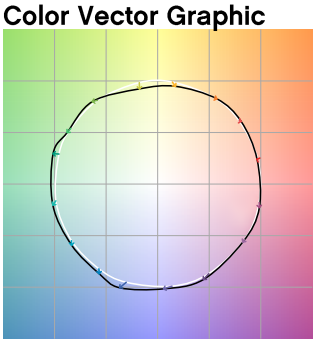
Rf 90.1
Fidelity Index (Rg)

Rg 101.9
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	93	-1%	0%
2	94	1%	-2%
3	91	1%	-3%
4	90	-4%	-4%
5	90	-6%	1%
6	91	2%	5%
7	88	1%	5%
8	89	6%	1%
9	91	4%	3%
10	92	2%	4%
11	91	4%	3%
12	85	6%	-5%
13	87	1%	-9%
14	88	2%	-8%
15	87	0%	-3%
16	87	1%	-5%

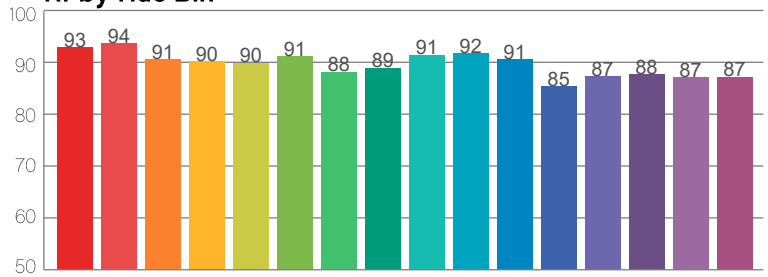


Color Vector Graphic

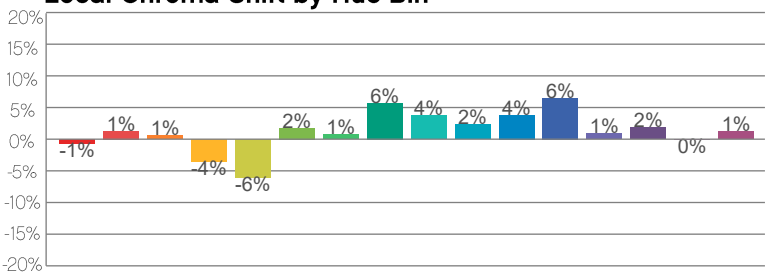


Color Distortion Graphic

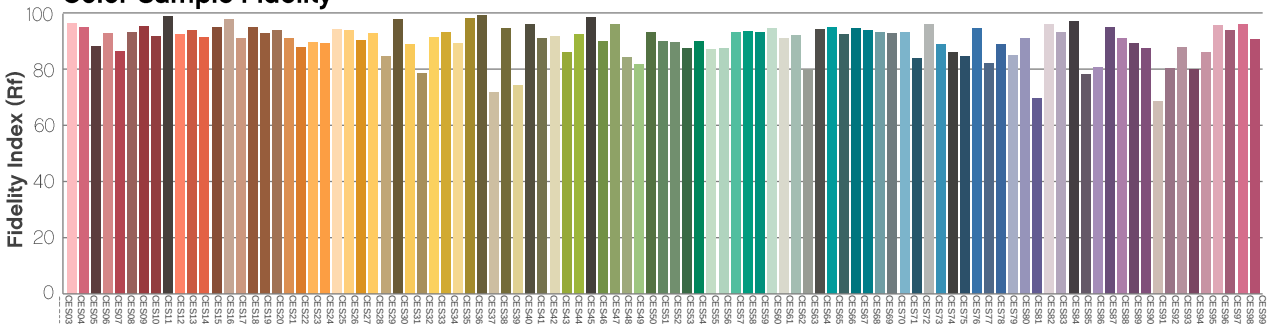
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Well STX 180: Standard Optics – 4000K – 3 HR

Report Summary

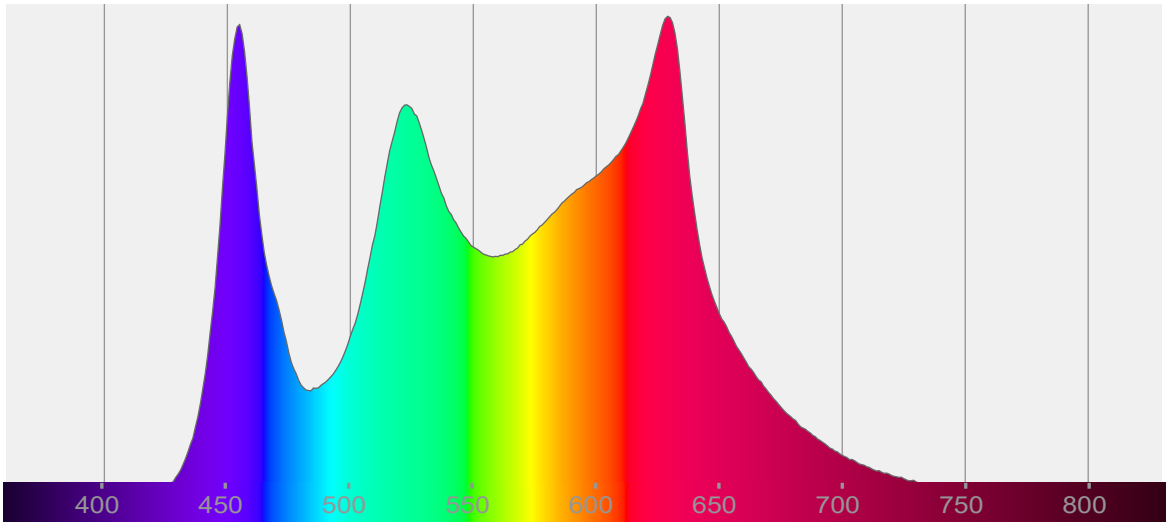
Measurements

Total Lumens: 863 lm
Peak Intensity: 225 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 4154
Δuv: 0.0012

CRI: 95.8 CRI R9 Value: 92.7
CQS: 94.9
TLCI: 89
TM-30-18 Rf: 89.9
TM-30-18 Rg: 101.8
1st Dominant Wavelength: 629 nM
2nd Dominant Wavelength: 455 nM

Spectral Distribution



Tested Color

4154 K
CIE 1931 Coordinates:
X: 0.375 Y: 0.376

Color Temperature

4154 K

Light Quality

CRI: 95.8

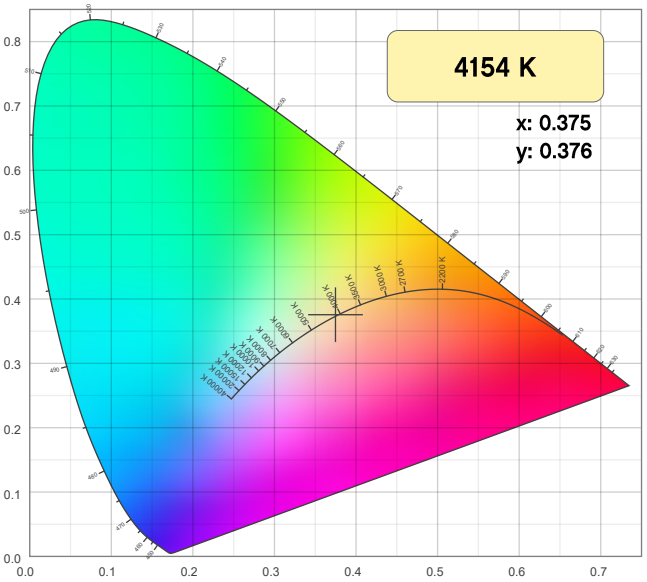
Notes:

Chromaticity Report

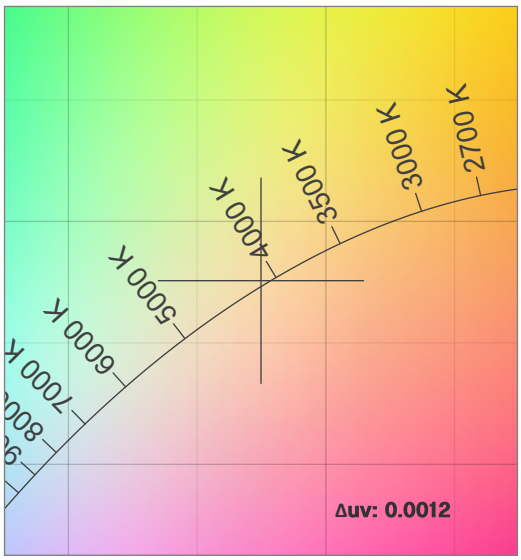
Well STX 180: Standard Optics – 4000K – 3 HR

Chromaticity

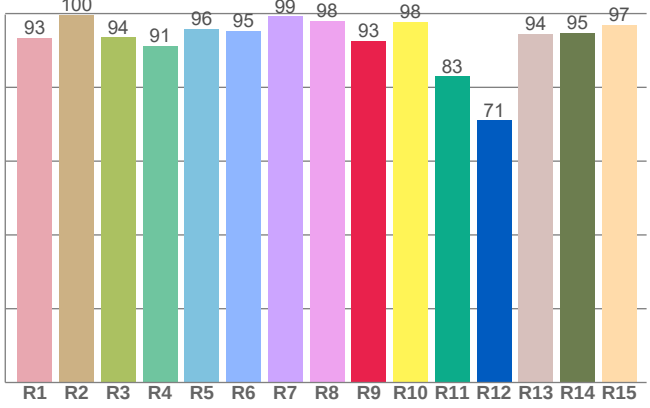
CIE 1931



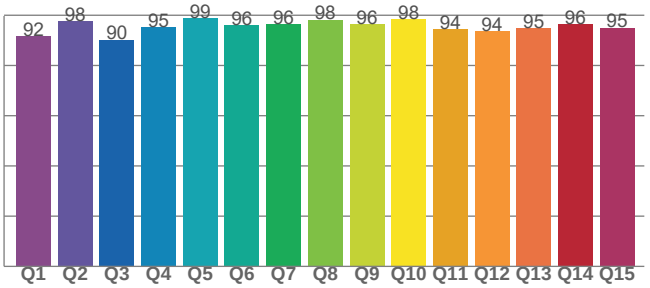
CIE 1931 - Zoom



CRI: 95.8 (R1-R8)



CQS: 94.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4154 K	0.375	0.376

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0012	0.376	0.222

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
95.8	92.7	94.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
89	89.9	101.8

Chromaticity Report

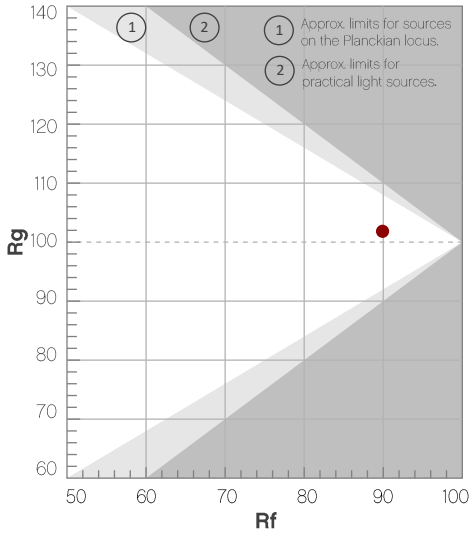
Well STX 180: Standard Optics – 4000K – 3 HR

TM-30-18 Details

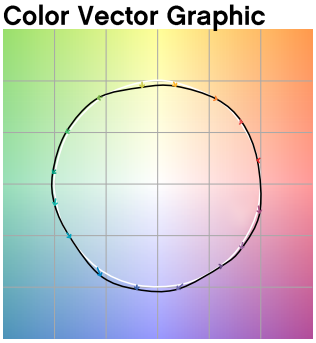
Rf 89.9
Fidelity Index (Rg)

Rg 101.8
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	93	-1%	0%
2	94	2%	-1%
3	92	0%	-1%
4	91	-3%	-3%
5	89	-5%	1%
6	91	2%	4%
7	90	2%	3%
8	89	2%	3%
9	91	2%	6%
10	90	0%	6%
11	86	5%	7%
12	89	4%	1%
13	89	4%	-6%
14	92	1%	2%
15	86	2%	-5%
16	86	3%	-6%

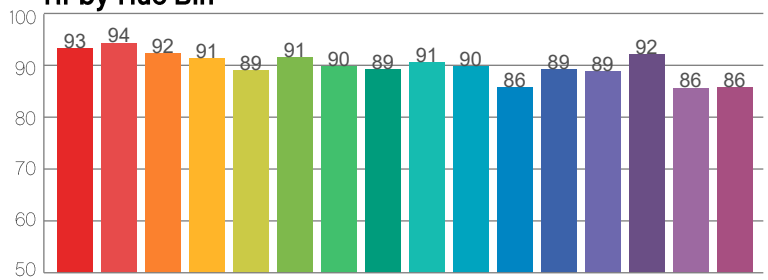


Color Vector Graphic

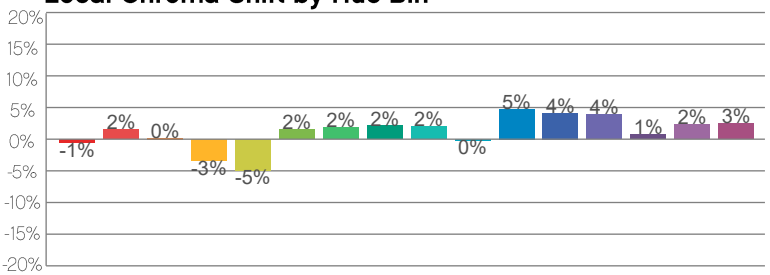


Color Distortion Graphic

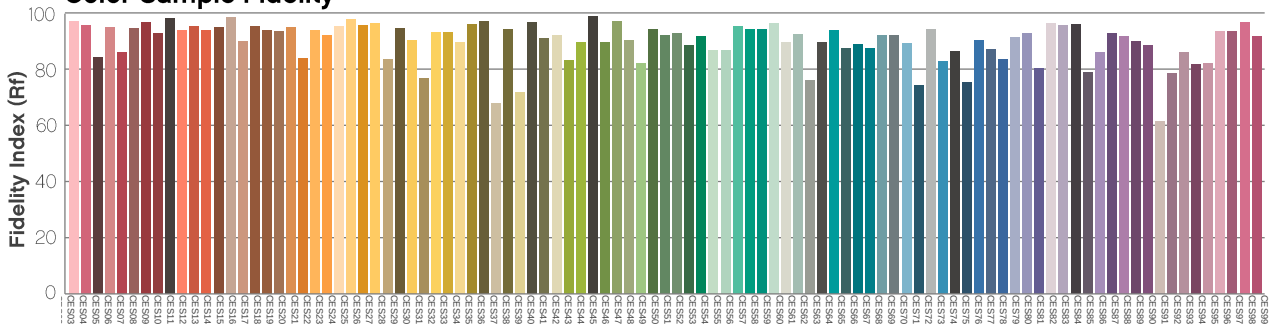
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Well STX 180: Standard Optics – 5600K – 3 HR

Report Summary

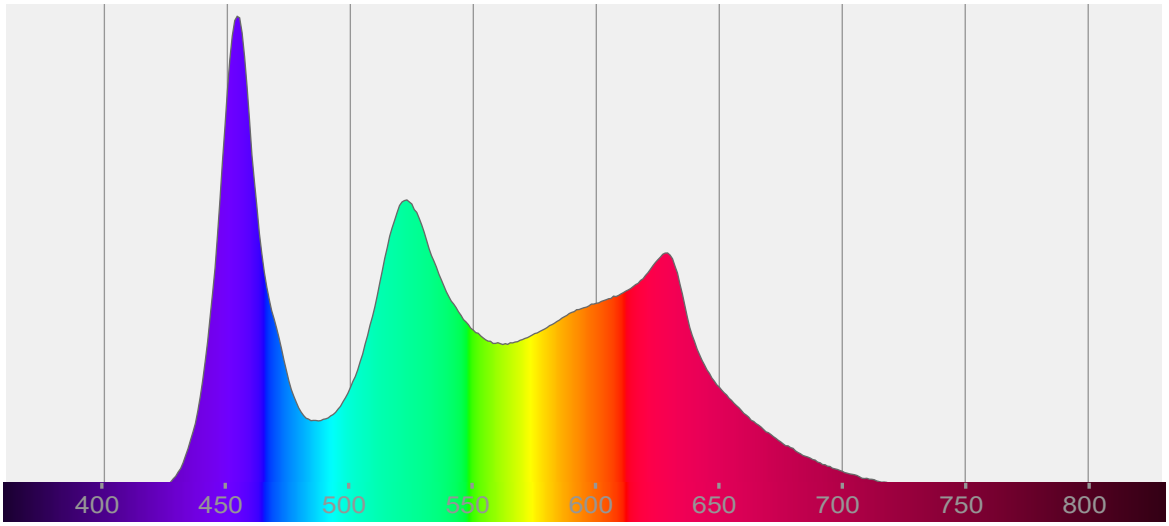
Measurements

Total Lumens: 942 lm
Peak Intensity: 245 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 564(
Δuv: -0.0029

CRI: 94.4 CRI R9 Value: 96.2
CQS: 93.8
TLCI: 91
TM-30-18 Rf: 89.6
TM-30-18 Rg: 104.0
1st Dominant Wavelength: 454 nM
2nd Dominant Wavelength: 523 nM

Spectral Distribution



Tested Color

5640 K
CIE 1931 Coordinates:
X: 0.329 Y: 0.339

Color Temperature

5640 K

Light Quality

CRI: 94.4

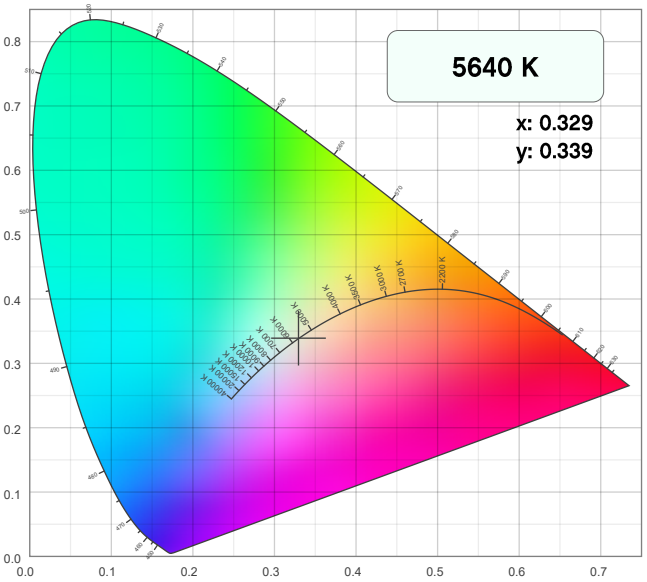
Notes:

Chromaticity Report

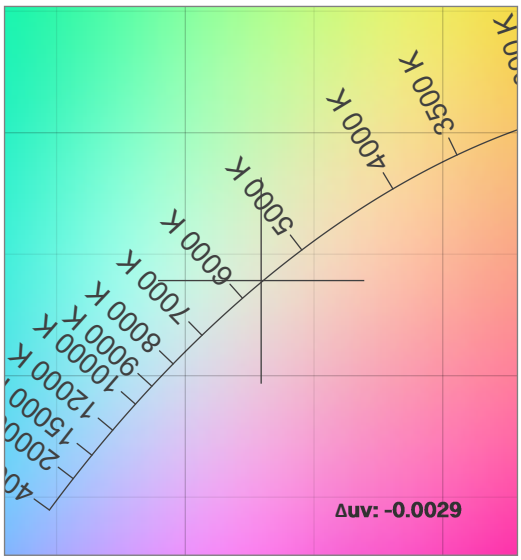
Well STX 180: Standard Optics – 5600K – 3 HR

Chromaticity

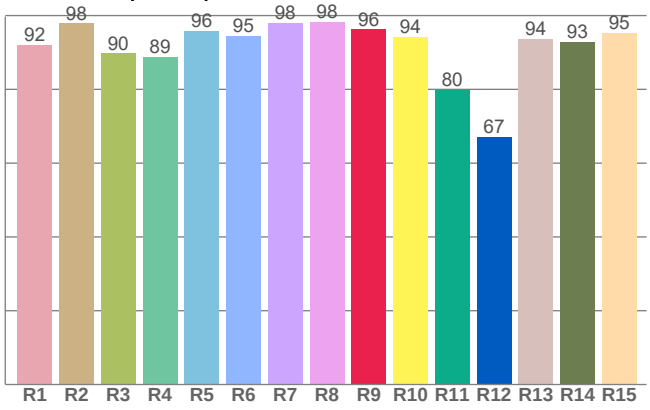
CIE 1931



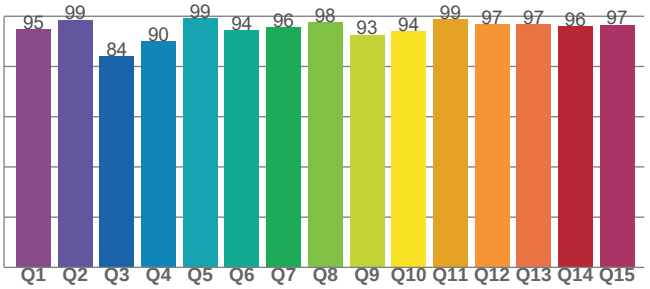
CIE 1931 - Zoom



CRI: 94.4 (R1-R8)



CQS: 93.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
5640 K	0.329	0.339

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0029	0.339	0.206

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.4	96.2	93.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
91	89.6	104.0

Chromaticity Report

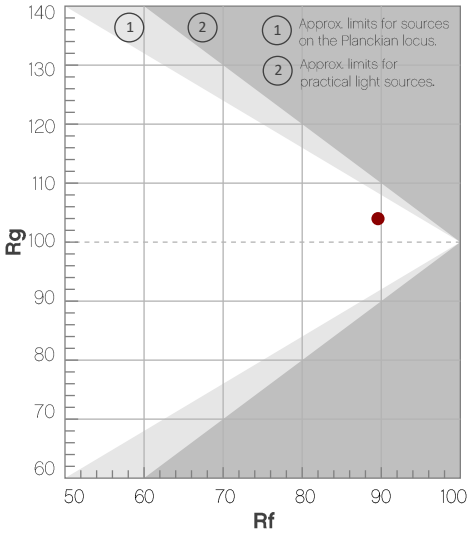
Well STX 180: Standard Optics – 5600K – 3 HR

TM-30-18 Details

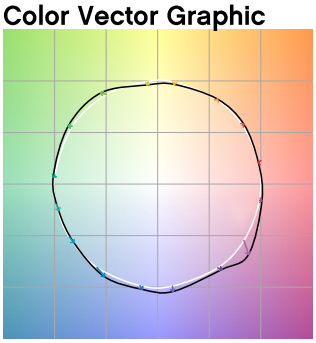
Rf 89.6
Fidelity Index (Rg)

Rg 104.0
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	93	0%	0%
2	95	2%	0%
3	94	1%	0%
4	93	-2%	0%
5	87	-3%	2%
6	90	4%	4%
7	90	3%	2%
8	92	1%	3%
9	90	-1%	6%
10	87	-1%	7%
11	80	3%	11%
12	92	3%	3%
13	91	5%	-1%
14	89	4%	2%
15	80	11%	-9%
16	93	2%	0%

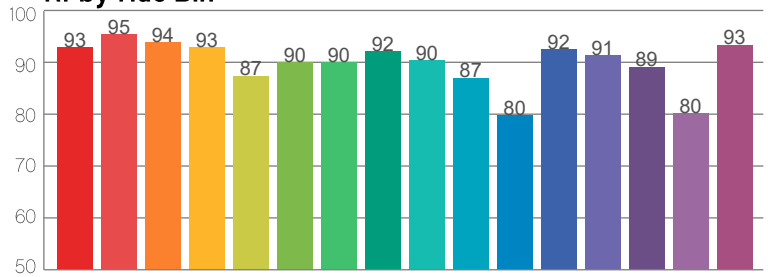


Color Vector Graphic

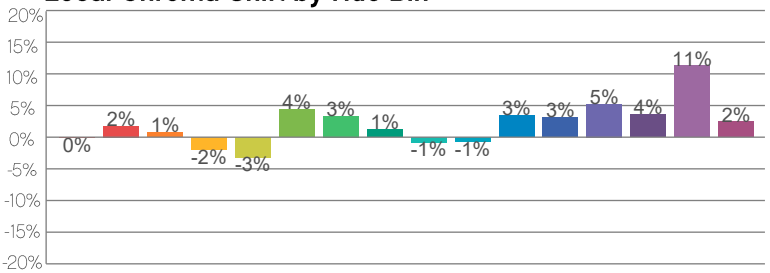


Color Distortion Graphic

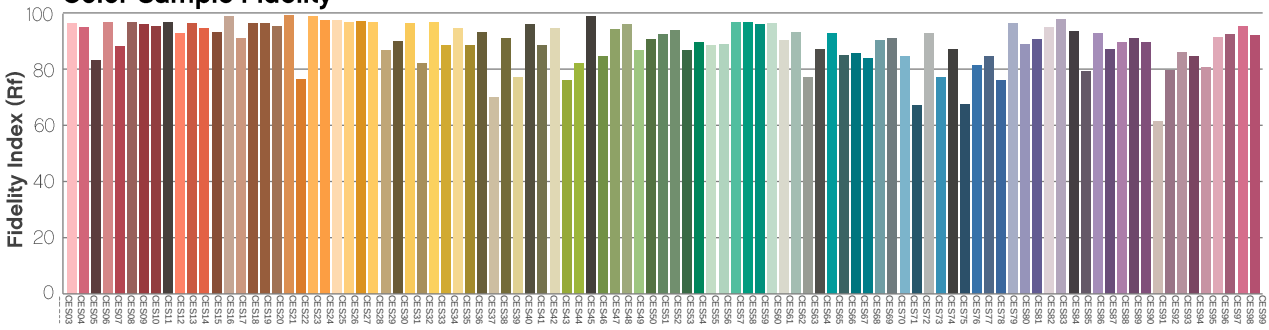
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

Well STX 180: Standard Optics – 6500K – 3 HR

Report Summary

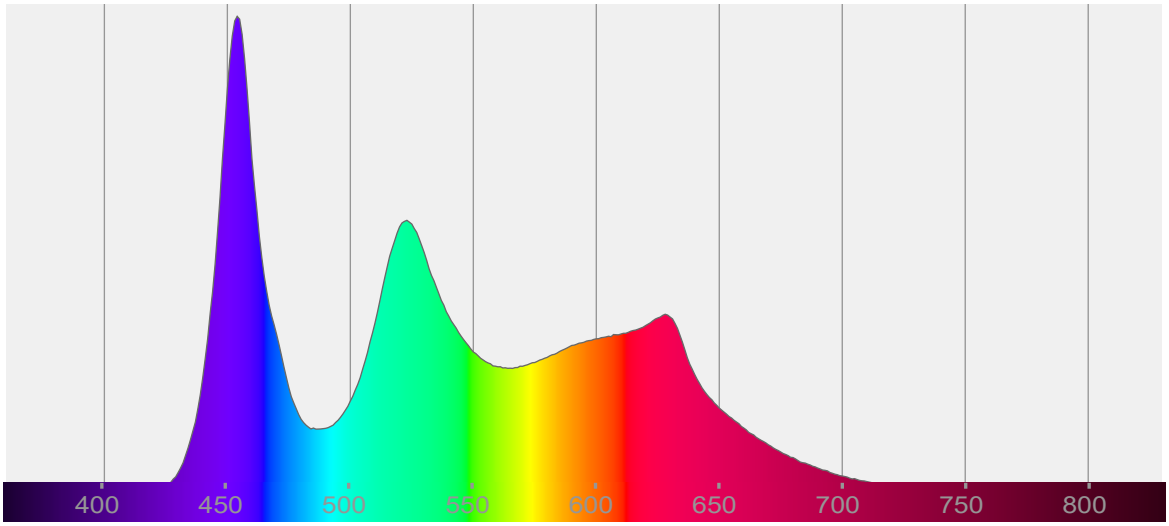
Measurements

Total Lumens: 996 lm
Peak Intensity: 259 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 667
Δuv: -0.0003

CRI: 94.6 CRI R9 Value: 96.4
CQS: 93.1
TLCI: 92
TM-30-18 Rf: 88.7
TM-30-18 Rg: 103.4
1st Dominant Wavelength: 454 nM
2nd Dominant Wavelength: 523 nM

Spectral Distribution



Tested Color

6673 K
CIE 1931 Coordinates:
X: 0.310 Y: 0.326

Color Temperature

6673 K

Light Quality

CRI: 94.6

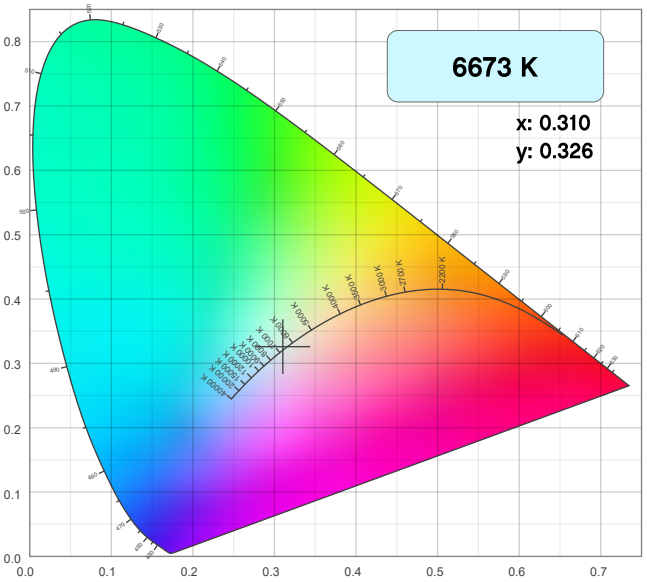
Notes:

Chromaticity Report

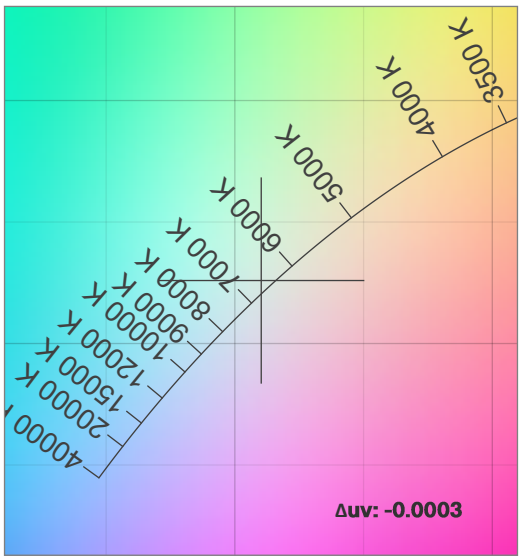
Well STX 180: Standard Optics – 6500K – 3 HR

Chromaticity

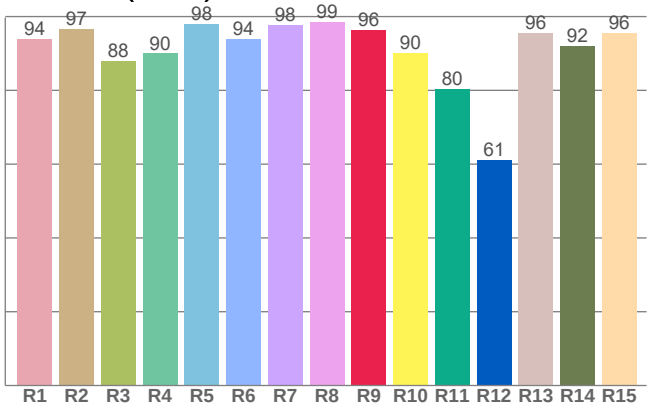
CIE 1931



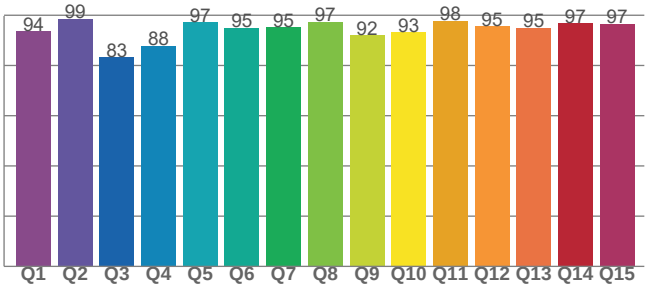
CIE 1931 - Zoom



CRI: 94.6 (R1-R8)



CQS: 93.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6673 K	0.310	0.326

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0003	0.326	0.197

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
94.6	96.4	93.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
92	88.7	103.4

Chromaticity Report

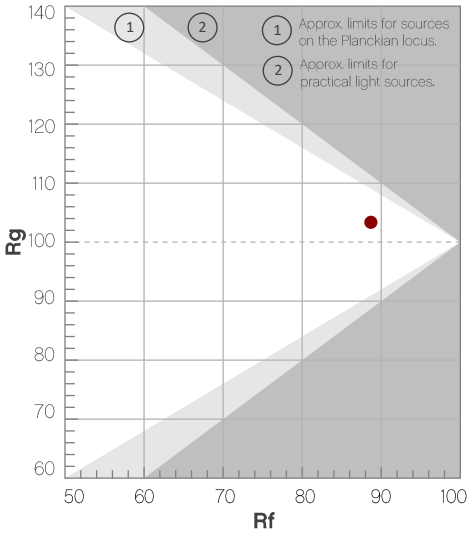
Well STX 180: Standard Optics – 6500K – 3 HR

TM-30-18 Details

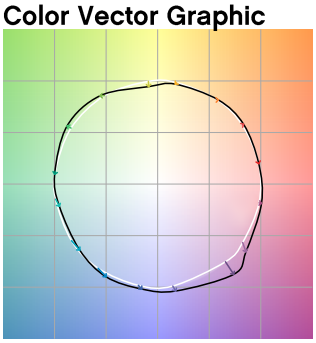
Rf 88.7
Fidelity Index (Rg)

Rg 103.4
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	93	0%	0%
2	95	2%	0%
3	94	1%	-1%
4	93	-2%	1%
5	85	-5%	1%
6	89	2%	4%
7	92	4%	0%
8	92	0%	3%
9	89	-2%	7%
10	81	-2%	12%
11	78	3%	11%
12	92	3%	4%
13	91	5%	2%
14	79	15%	0%
15	83	8%	-6%
16	93	2%	0%

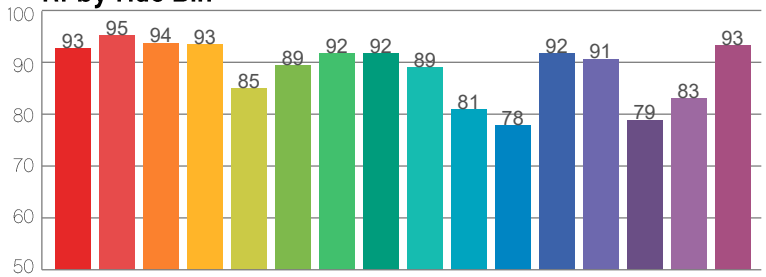


Color Vector Graphic

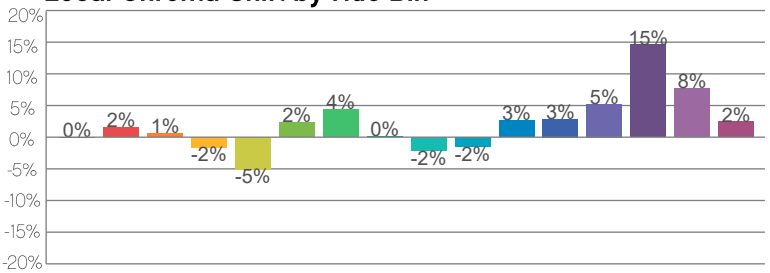


Color Distortion Graphic

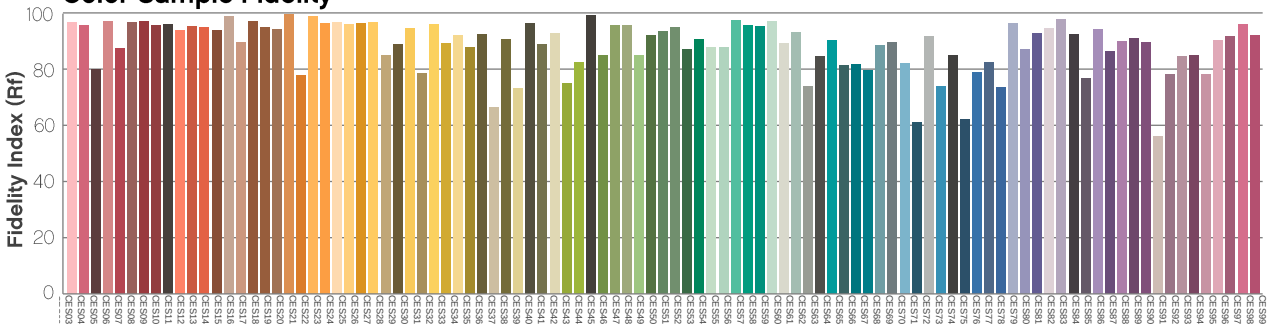
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



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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.