PHOTOMETRICS REPORT

WELL GOBO

WIRELESS EVENT LED LUMINAIRE

CHAUVET
PROFESSIONAL

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Testing Process

Total Illuminance Measurements

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

Testing Lab Equipment and Process

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

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

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

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

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

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

Photometric Report

WELL Gobo : Full Spot - Wide

Report Summary

Output

Total Lumens: 2892 lm
Peak Intensity: 9338 cd
Illuminance @ 5m: 374 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 36.6°
Vertical Beam Angle (50%): 36.6°
Horizontal Field Angle (10%): 41°
Vertical Field Angle (10%): 41°
Horizontal Cutoff Angle (3%): 42.1°
Vertical Cutoff Angle (3%): 42.1°

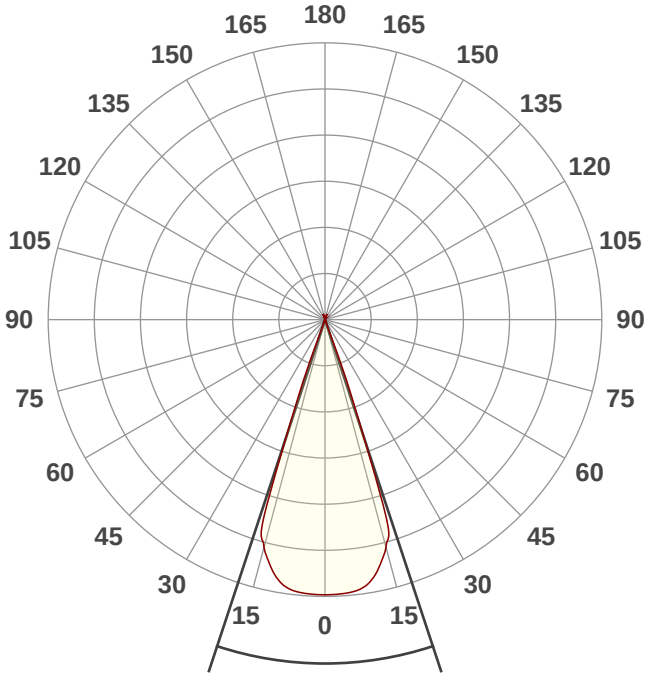
Conditions

AC Supply: 119 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 12/31/2019 to LM-63-2002 Standards.

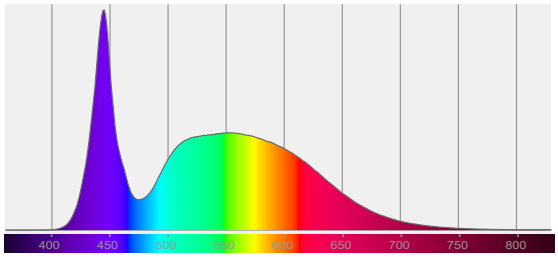
Overall Measurement

Angular Beam Distribution

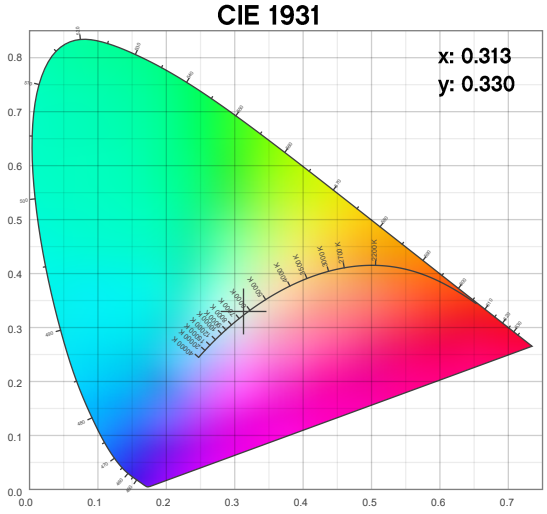


Beam Angle **36.6°**

Spectral Distribution



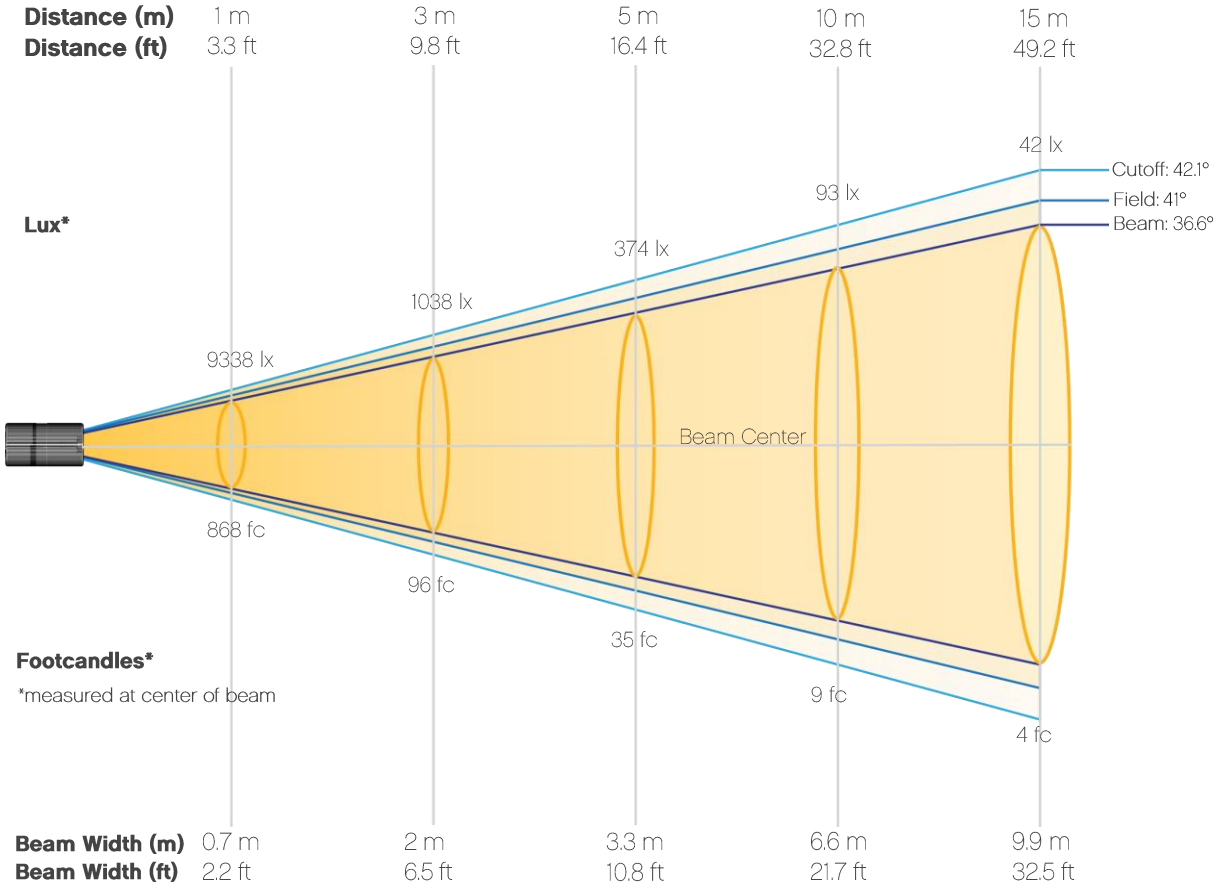
CIE 1931



Photometric Report

WELL Gobo : Full Spot - Wide

Beam Details



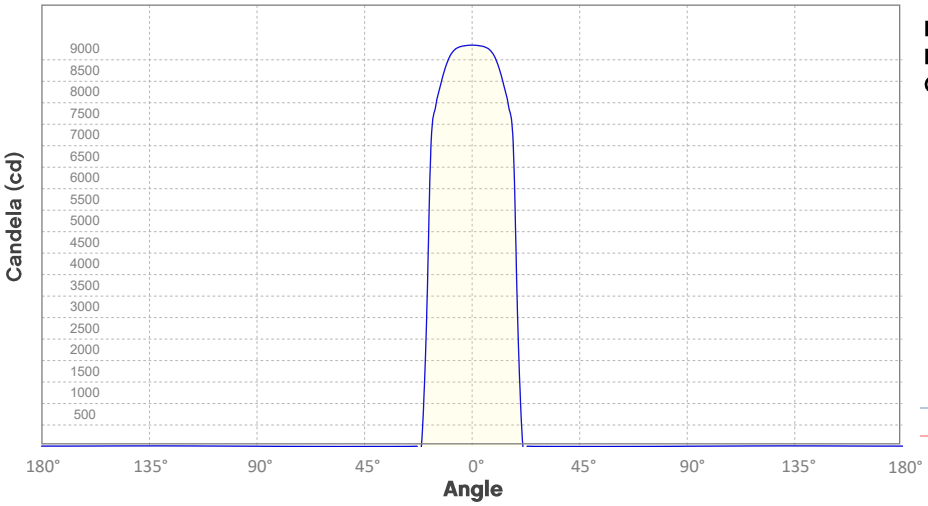
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	9338	2335	1038	584	374	259	191	146	115	93
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	77	65	55	48	42	36	32	29	26	23
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	868	217	96	54	35	24	18	14	11	9
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	7	6	5	4	4	3	3	3	2	2

Photometric Report

WELL Gobo : Full Spot - Wide

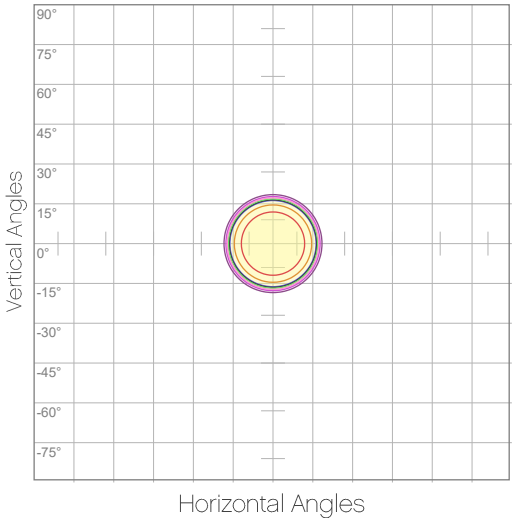
Candela Plot



Beam Angle (50%): 36.6°
Field Angle (10%): 41°
Cutoff Angle (3%): 42.1°

Horizontal Distribution
Vertical Distribution

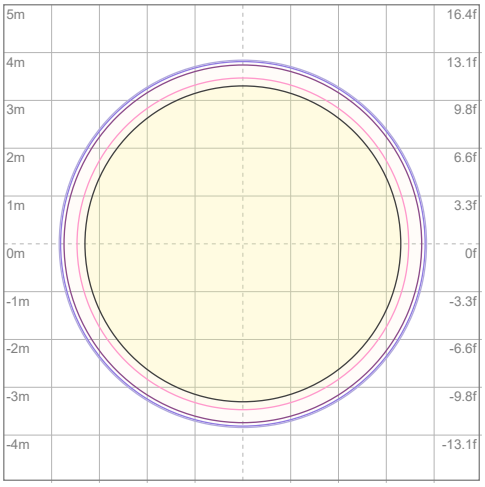
Polar Diagrams



iso-candela Diagram

10%	934 cd
20%	1868 cd
30%	2801 cd
40%	3735 cd
50%	4669 cd
60%	5603 cd
70%	6537 cd
80%	7470 cd
90%	8404 cd

Conditions:
Number of c-planes: 2
Candela at center: 9338 cd



iso-illuminance Diagram

3%	2.80 lx
5%	4.67 lx
10%	9.34 lx
30%	28.0 lx
50%	46.7 lx

Conditions:
Number of c-planes: 2
Lux at center: 93.4 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 Gobo : Full Spot - Wide - 8 HR

Report Summary

Output

Total Lumens: 1272 lm
Peak Intensity: 4156 cd
Illuminance @ 5m: 165 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 36.9°
Vertical Beam Angle (50%): 36.9°
Horizontal Field Angle (10%): 39.4°
Vertical Field Angle (10%): 39.4°
Horizontal Cutoff Angle (3%): 39.9°
Vertical Cutoff Angle (3%): 39.9°

Conditions

AC Supply: 118 V, 60.1 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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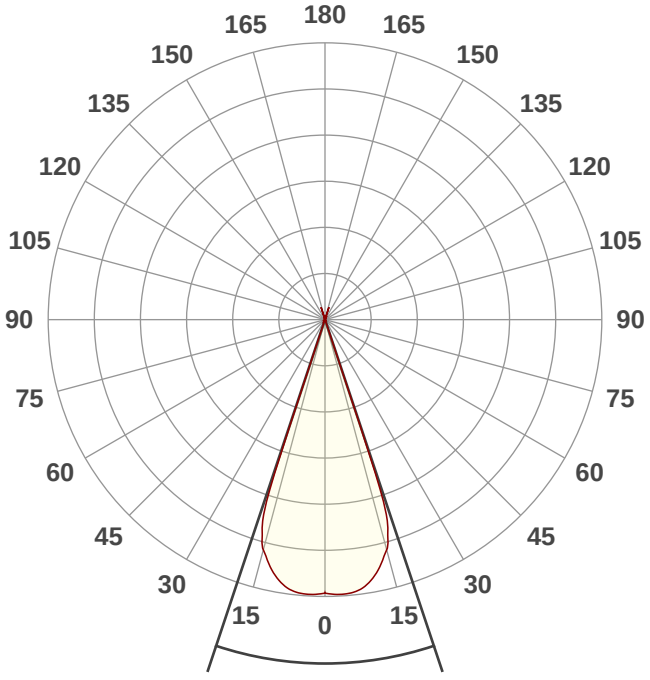
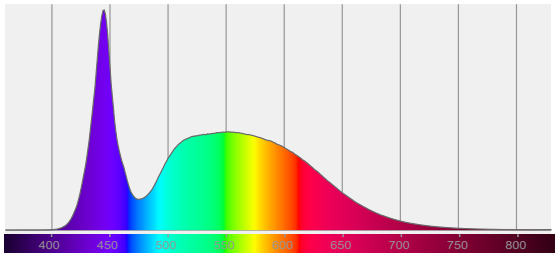
Overall Measurement

Angular Beam Distribution

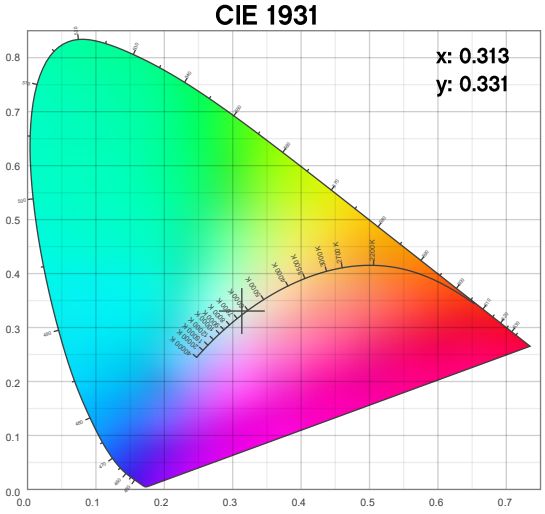


Beam Angle **36.9°**

Spectral Distribution



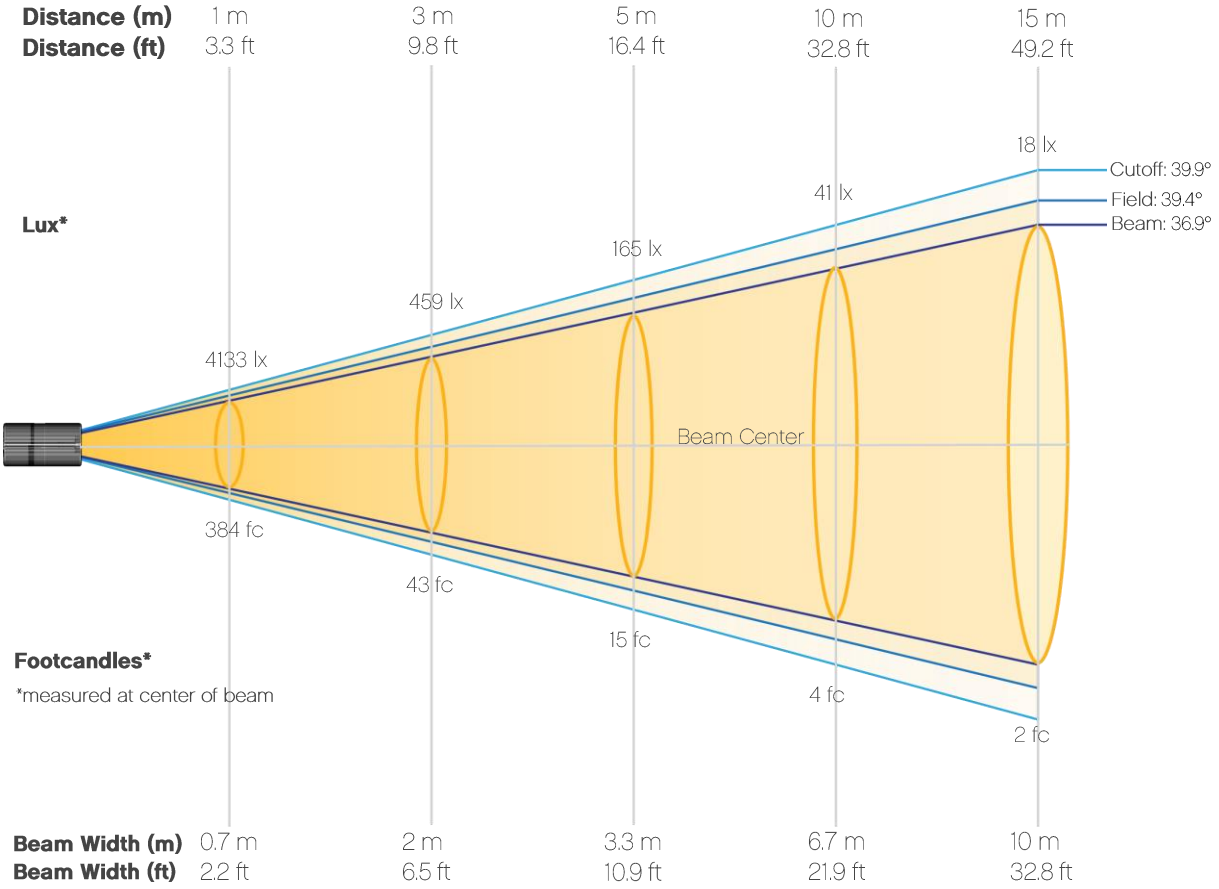
CIE 1931



Photometric Report

WELL Gobo : Full Spot - Wide - 8 HR

Beam Details



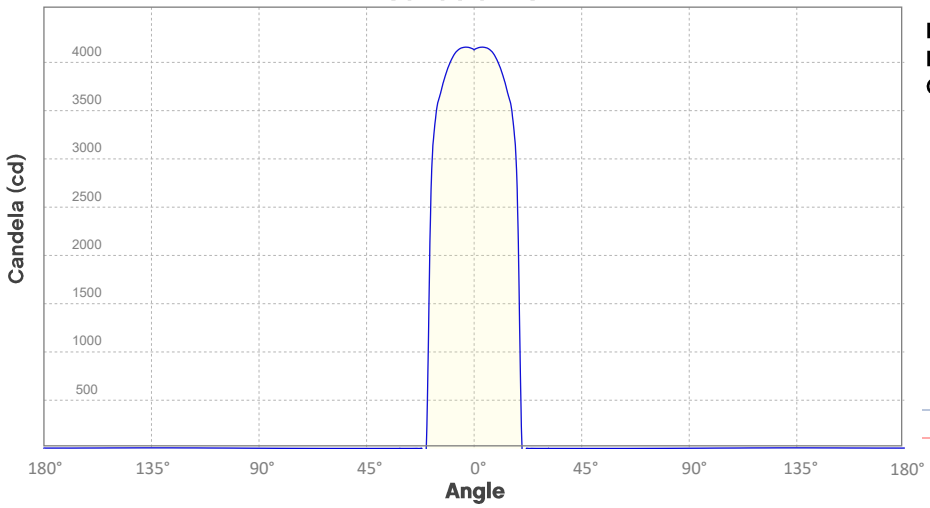
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4133	1033	459	258	165	115	84	65	51	41
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	34	29	24	21	18	16	14	13	11	10
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	384	96	43	24	15	11	8	6	5	4
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	3	2	2	2	1	1	1	1	1

Photometric Report

WELL Gobo : Full Spot - Wide - 8 HR

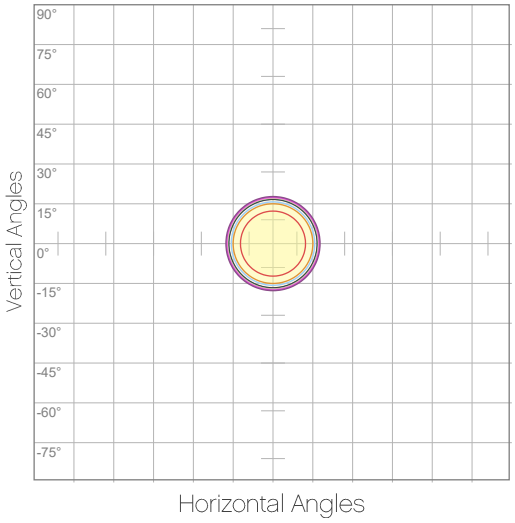
Candela Plot



Beam Angle (50%): 36.9°
Field Angle (10%): 39.4°
Cutoff Angle (3%): 39.9°

Horizontal Distribution
Vertical Distribution

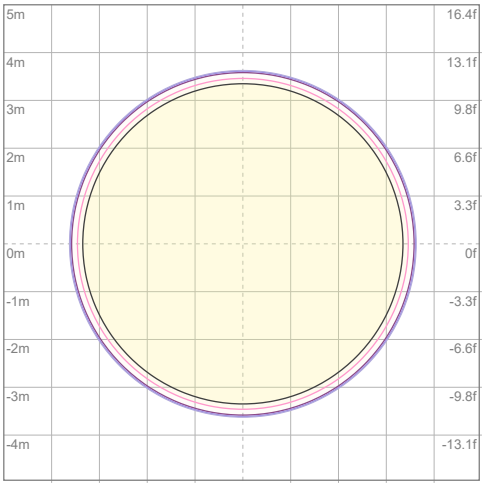
Polar Diagrams



iso-candela Diagram

10%	413 cd
20%	827 cd
30%	1240 cd
40%	1653 cd
50%	2066 cd
60%	2480 cd
70%	2893 cd
80%	3306 cd
90%	3719 cd

Conditions:
Number of c-planes: 2
Candela at center: 4133 cd



iso-illuminance Diagram

3%	1.24 lx
5%	2.07 lx
10%	4.13 lx
30%	12.4 lx
50%	20.7 lx

Conditions:
Number of c-planes: 2
Lux at center: 41.3 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 Gobo : Full Spot - Narrow

Report Summary

Output

Total Lumens: 2640 lm
Peak Intensity: 37169 cd
Illuminance @ 5m: 1487 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 17.3°
Vertical Beam Angle (50%): 17.3°
Horizontal Field Angle (10%): 20°
Vertical Field Angle (10%): 20°
Horizontal Cutoff Angle (3%): 22.7°
Vertical Cutoff Angle (3%): 22.7°

Conditions

AC Supply: 119 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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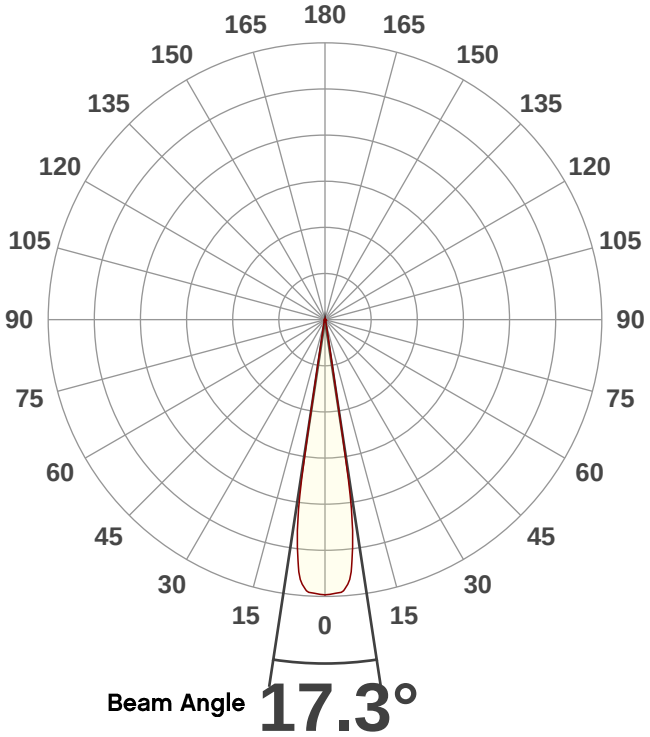
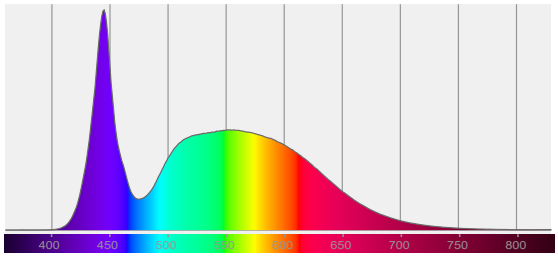
Overall Measurement

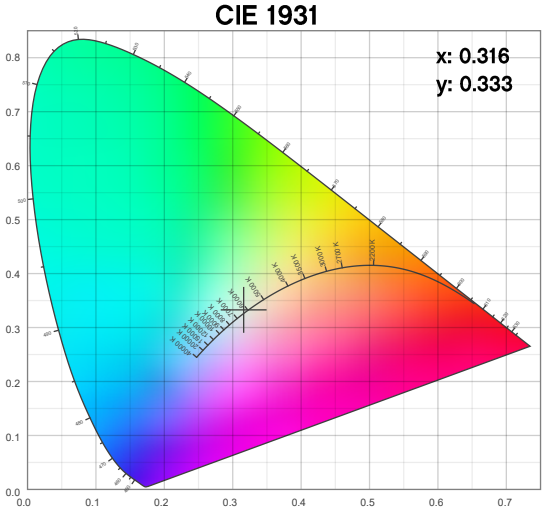
Angular Beam Distribution



Spectral Distribution



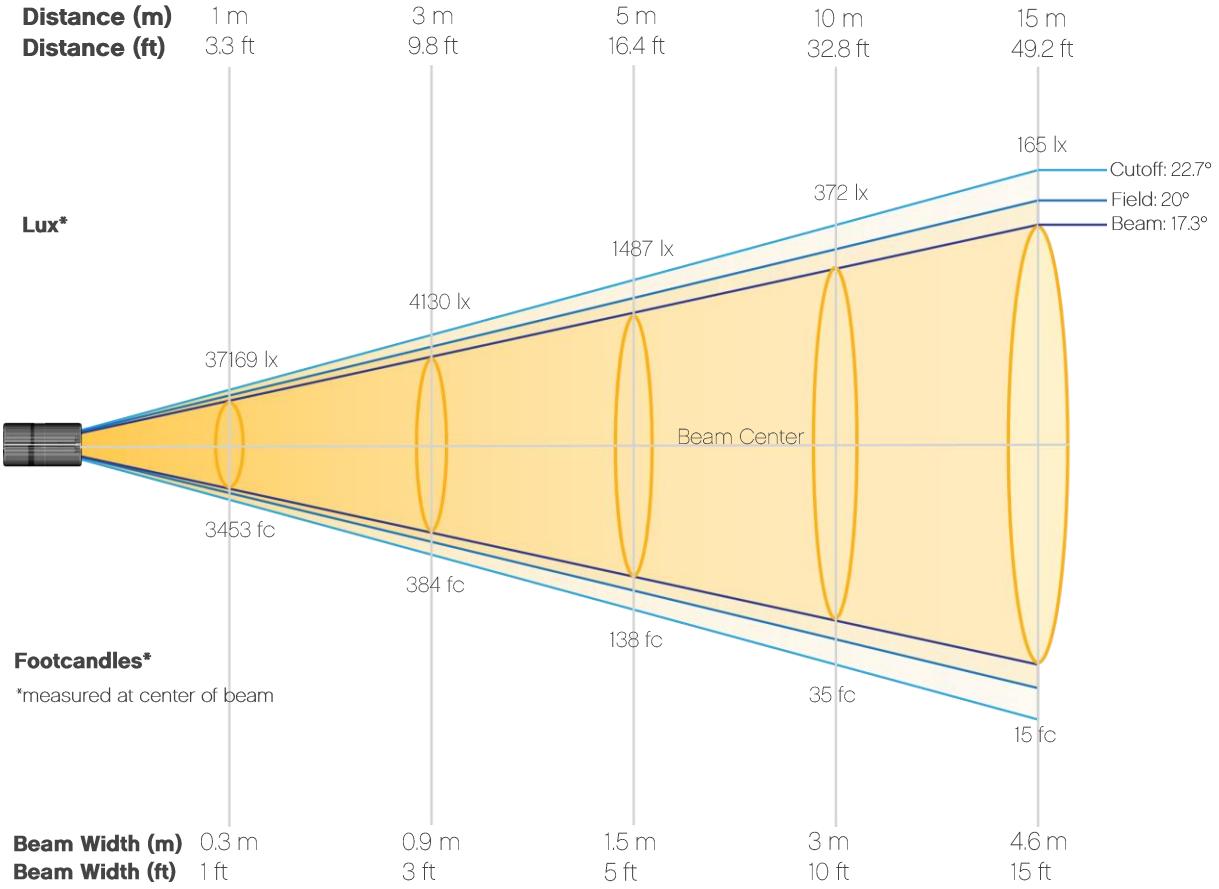
CIE 1931



Photometric Report

WELL Gobo : Full Spot - Narrow

Beam Details



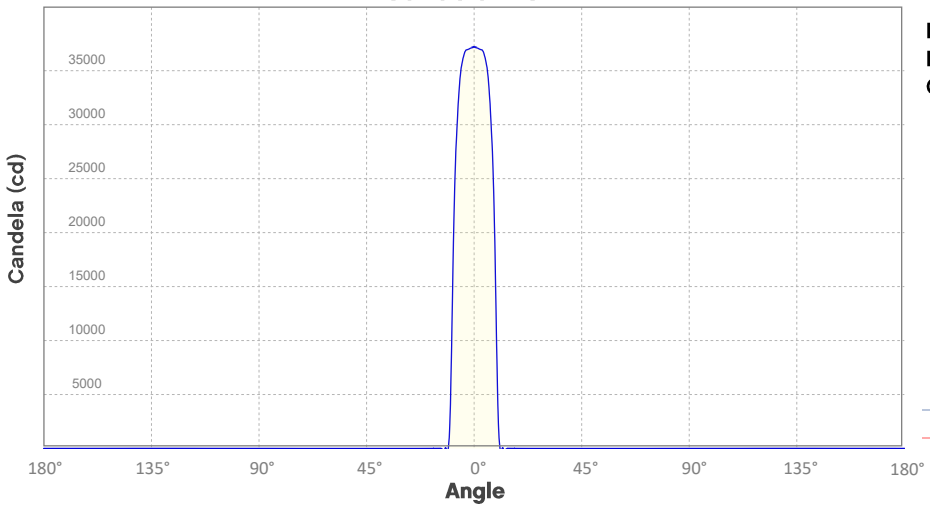
Beam Iluminances from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	37169	9292	4130	2323	1487	1032	759	581	459	372
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	307	258	220	190	165	145	129	115	103	93
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	3453	863	384	216	138	96	70	54	43	35
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	29	24	20	18	15	13	12	11	10	9

Photometric Report

WELL Gobo : Full Spot - Narrow

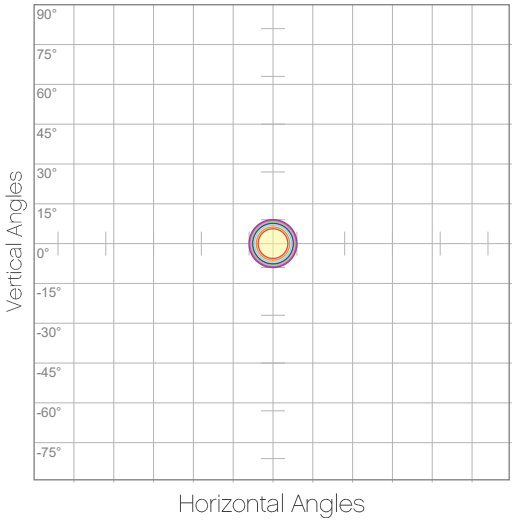
Candela Plot



Beam Angle (50%): 17.3°
Field Angle (10%): 20°
Cutoff Angle (3%): 22.7°

Horizontal Distribution
Vertical Distribution

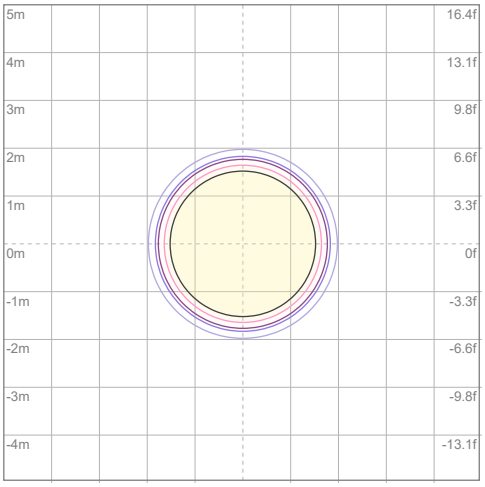
Polar Diagrams



iso-candela Diagram

10%	3717 cd
20%	7434 cd
30%	11151 cd
40%	14868 cd
50%	18585 cd
60%	22302 cd
70%	26019 cd
80%	29736 cd
90%	33452 cd

Conditions:
Number of c-planes: 2
Candela at center: 37169 cd



iso-illuminance Diagram

3%	11.2 lx
5%	18.6 lx
10%	37.2 lx
30%	112 lx
50%	186 lx

Conditions:
Number of c-planes: 2
Lux at center: 372 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 Gobo : Full Spot - Narrow - 8 HR

Report Summary

Output

Total Lumens: 2640 lm
Peak Intensity: 37169 cd
Illuminance @ 5m: 1487 lux
Fixture Efficacy: ffi lm/W

Optical

Horizontal Beam Angle (50%): 17.3°
Vertical Beam Angle (50%): 17.3°
Horizontal Field Angle (10%): 20°
Vertical Field Angle (10%): 20°
Horizontal Cutoff Angle (3%): 22.7°
Vertical Cutoff Angle (3%): 22.7°

Conditions

AC Supply: 119 V, 60 Hz
Power: n/a W
Current: 0.000 A
Power Factor: n/a

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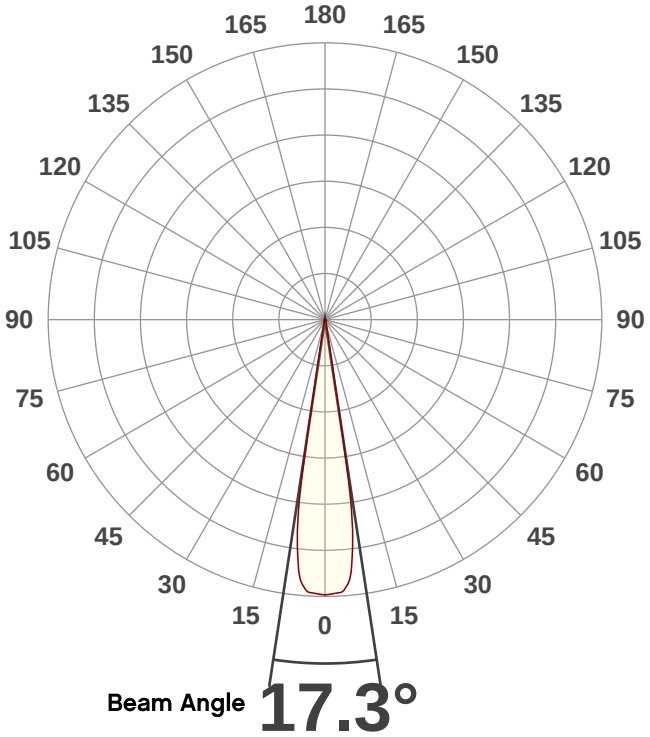
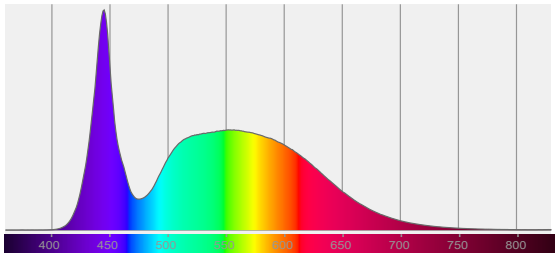
Overall Measurement

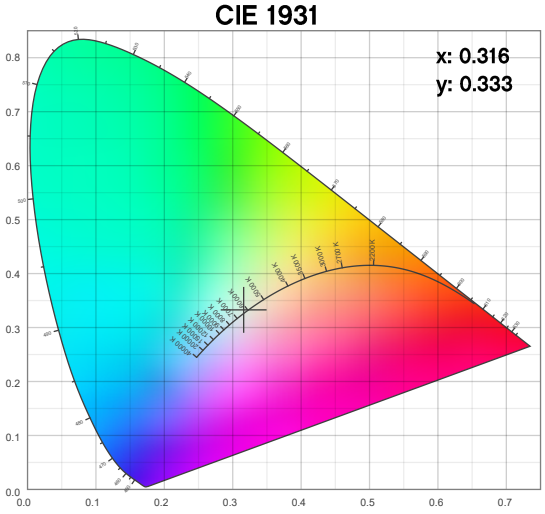
Angular Beam Distribution



Spectral Distribution



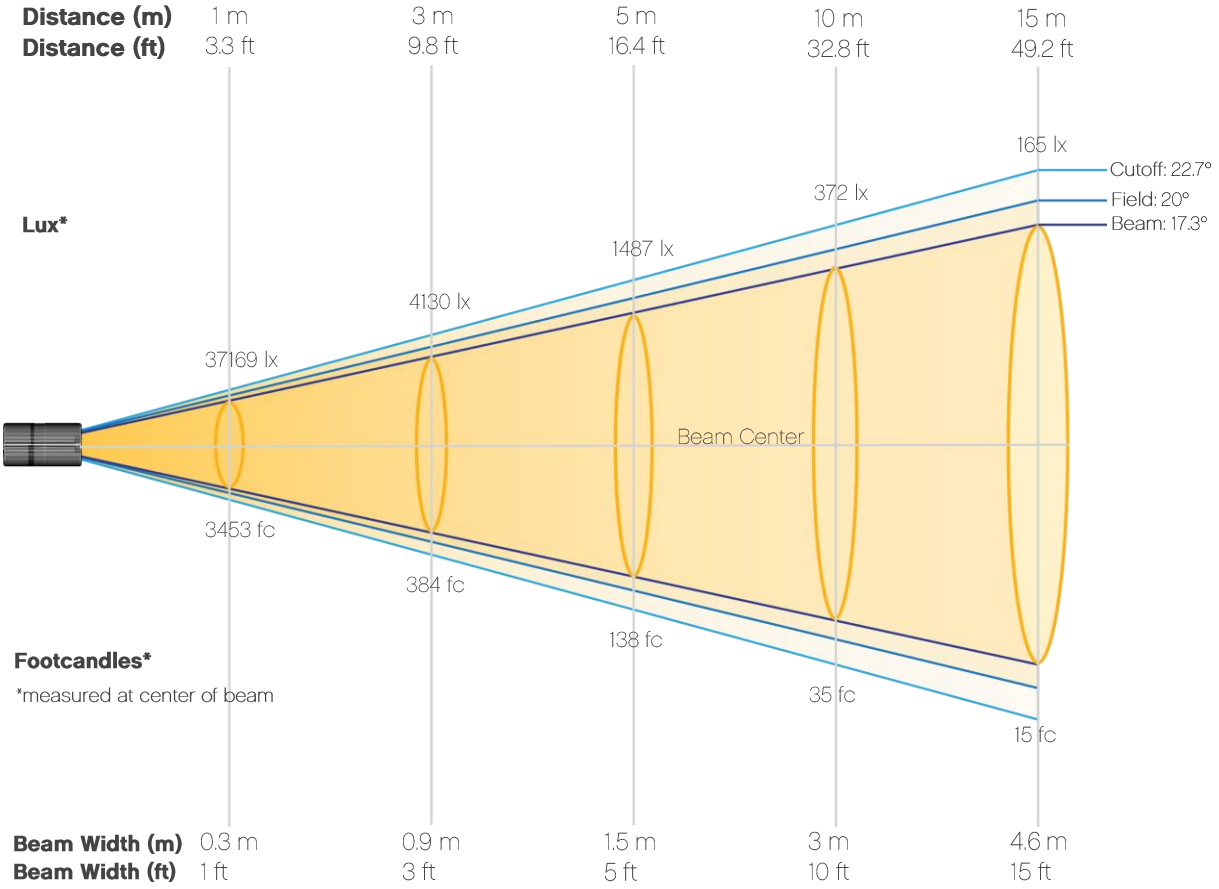
CIE 1931



Photometric Report

WELL Gobo : Full Spot - Narrow - 8 HR

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
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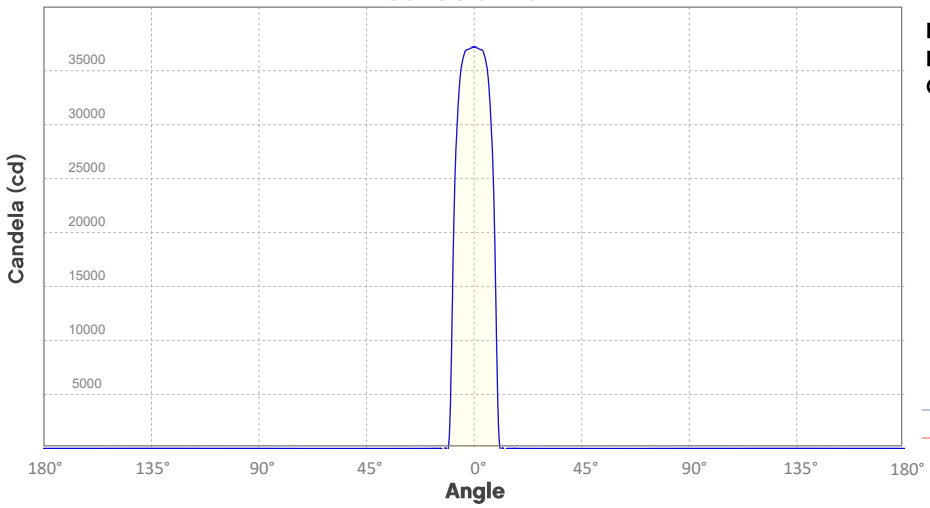
Photometric Report

WELL Gobo : Full Spot - Narrow - 8 HR

Candela Plot



Beam Angle (50%): 17.3°
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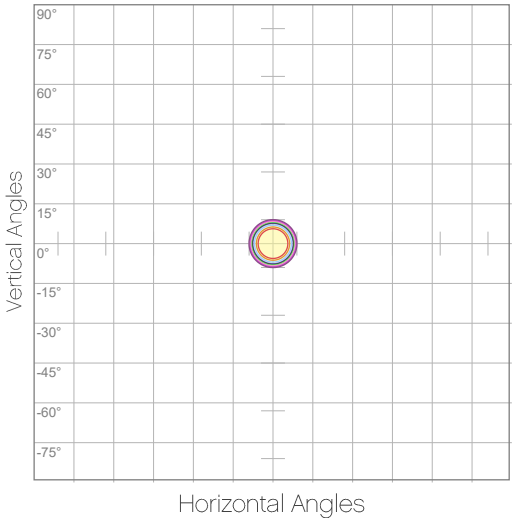
Horizontal Distribution
Vertical Distribution

Polar Diagrams



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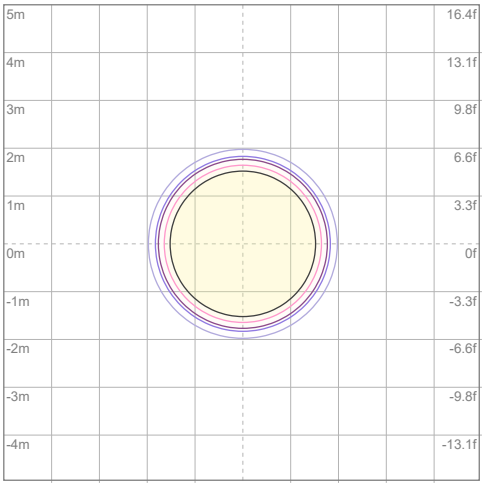

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Conditions:
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Lux at center: 372 lx

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

Mounting height: 10 meters / 33 feet

Chromaticity Report

WELL Gobo: Full Spot - Wide

Report Summary

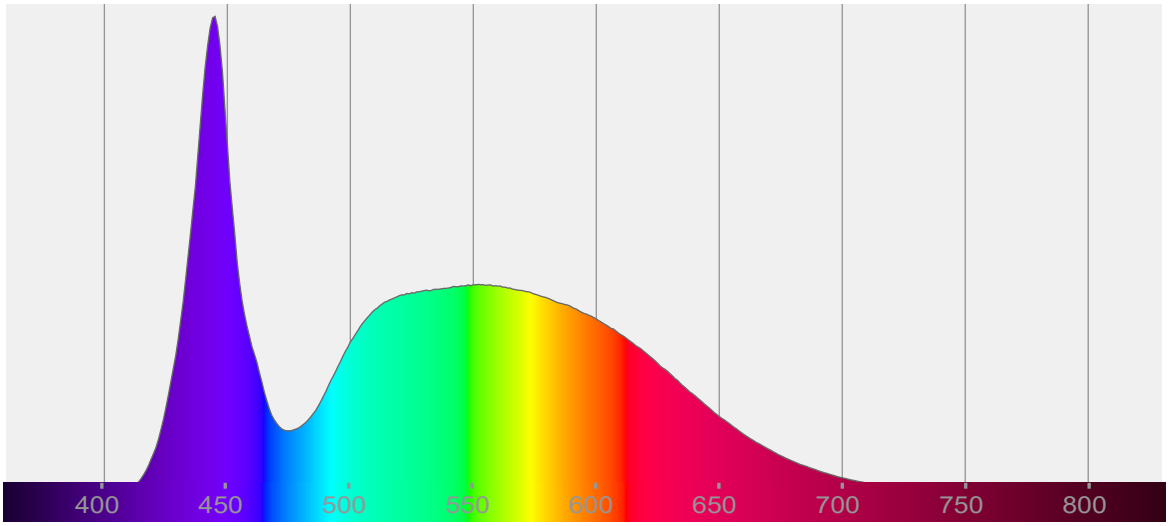
Measurements

Total Lumens: 2892 lm
Peak Intensity: 9338 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 6499ł
Δuv: 0.0003

CRI: 79.1 CRI R9 Value: 3.0
CQS: 79.6
TLCI: 65
TM-30-18 Rf: 77.5
TM-30-18 Rg: 98.3
1st Dominant Wavelength: 445 nM
2nd Dominant Wavelength: 552 nM

Spectral Distribution



Tested Color

6499 K
CIE 1931 Coordinates:
X: 0.313 Y: 0.330

Color Temperature

6499 K

Light Quality

CRI: 79.1

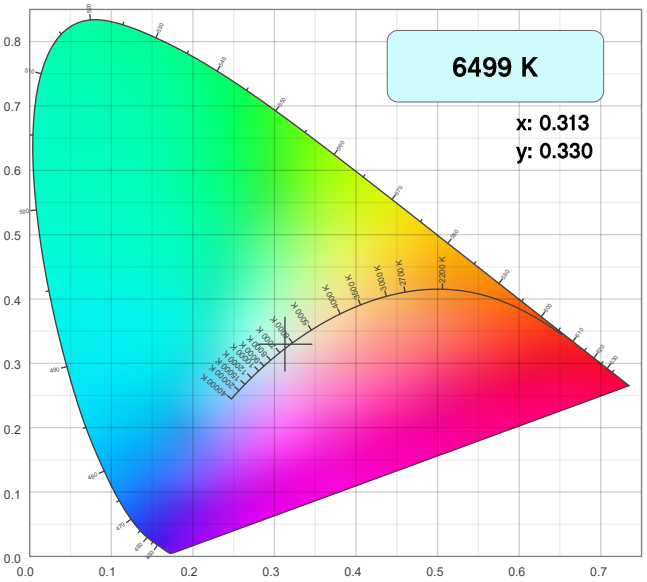
Notes:

Chromaticity Report

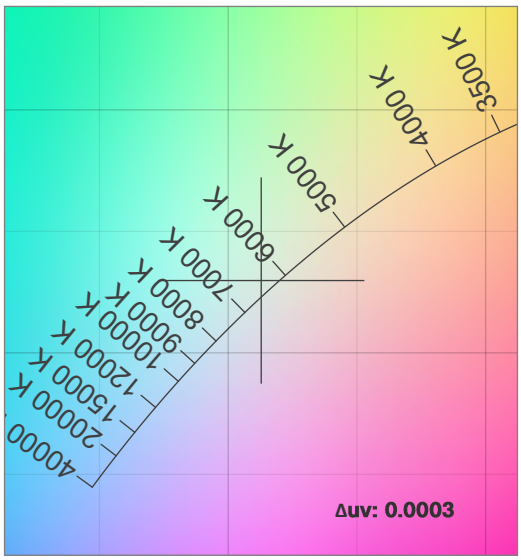
WELL Gobo: Full Spot - Wide

Chromaticity

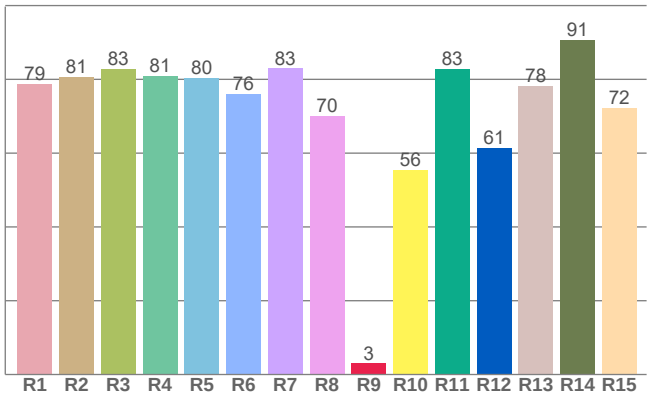
CIE 1931



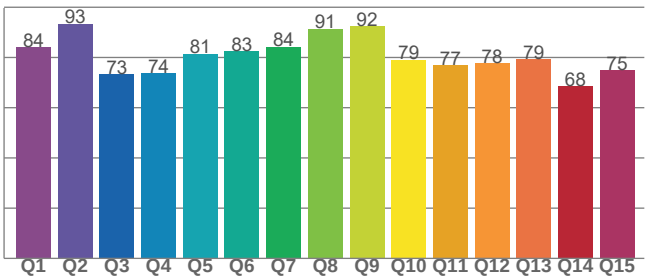
CIE 1931 - Zoom



CRI: 79.1 (R1-R8)



CQS: 79.6



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6499 K	0.313	0.330

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0003	0.330	0.198

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
79.1	3.0	79.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
65	77.5	98.3

Chromaticity Report

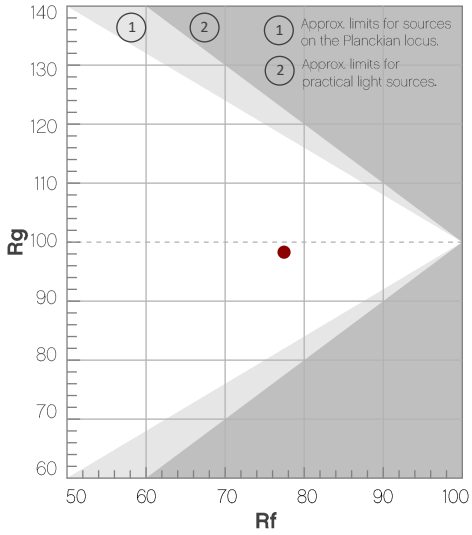
WELL Gobo: Full Spot - Wide

TM-30-18 Details

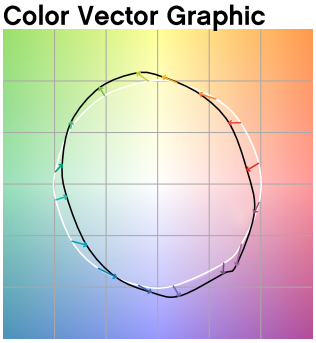
Rf 77.5
Fidelity Index (Rg)

Rg 98.3
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	74	-12%	-4%
2	81	-9%	6%
3	69	-5%	16%
4	73	3%	15%
5	76	10%	9%
6	84	9%	0%
7	90	3%	-5%
8	82	-5%	-8%
9	86	-11%	-1%
10	76	-10%	11%
11	62	-2%	19%
12	77	4%	13%
13	83	11%	4%
14	81	8%	-6%
15	74	7%	-20%
16	80	-3%	-10%

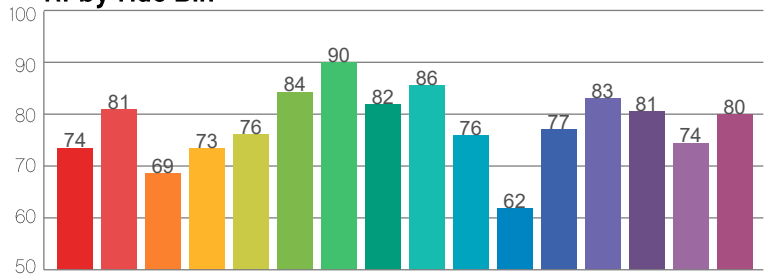


Color Vector Graphic

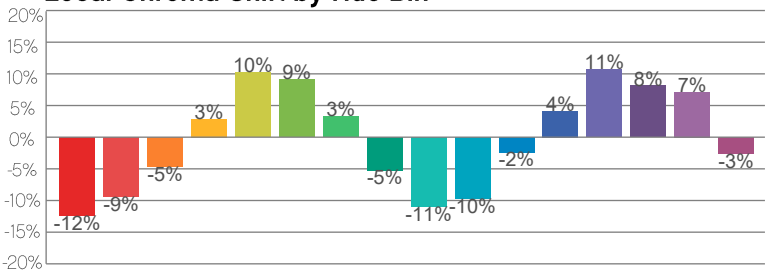


Color Distortion Graphic

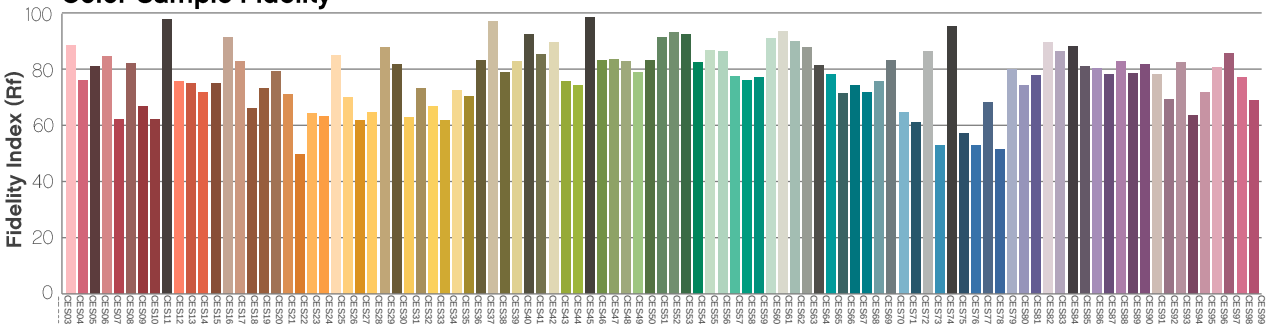
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

WELL Gobo: Full Spot - Wide - 8 HR

Report Summary

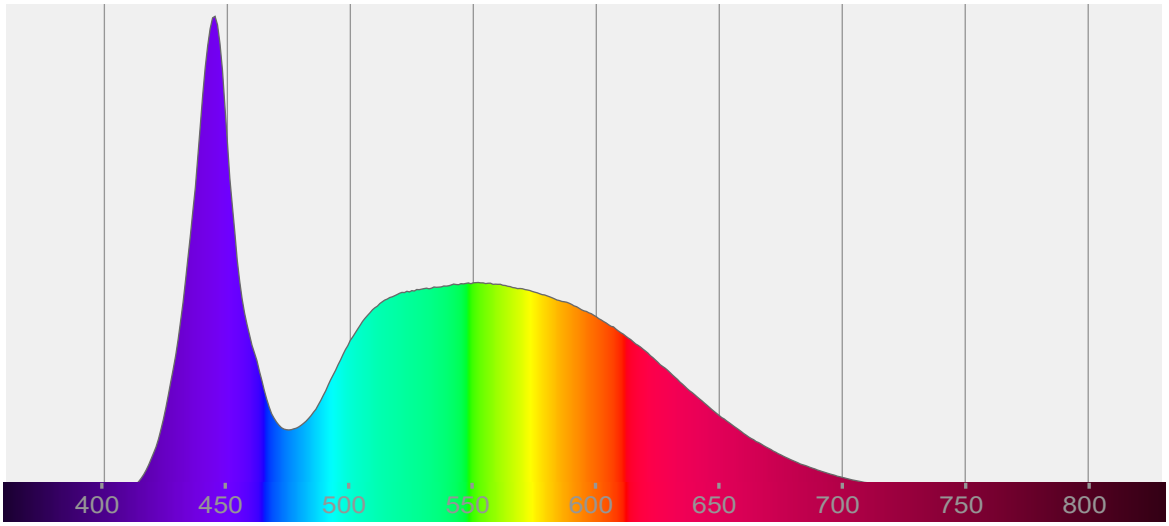
Measurements

Total Lumens: 1272 lm
Peak Intensity: 4156 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 6469ł
Δuv: 0.0005

CRI: 79.2 CRI R9 Value: 2.5
CQS: 79.7
TLCI: 65
TM-30-18 Rf: 77.6
TM-30-18 Rg: 98.5
1st Dominant Wavelength: 445 nM
2nd Dominant Wavelength: 552 nM

Spectral Distribution



Tested Color

6469 K
CIE 1931 Coordinates:
X: 0.313 Y: 0.331

Color Temperature

6469 K

Light Quality

CRI: 79.2

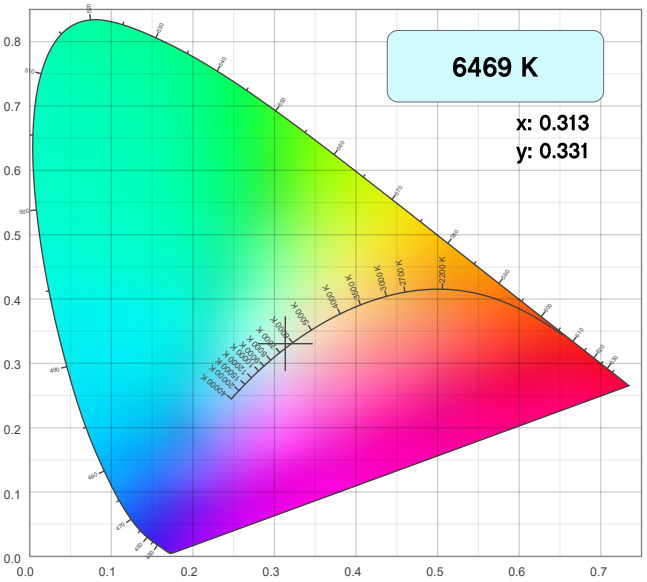
Notes:

Chromaticity Report

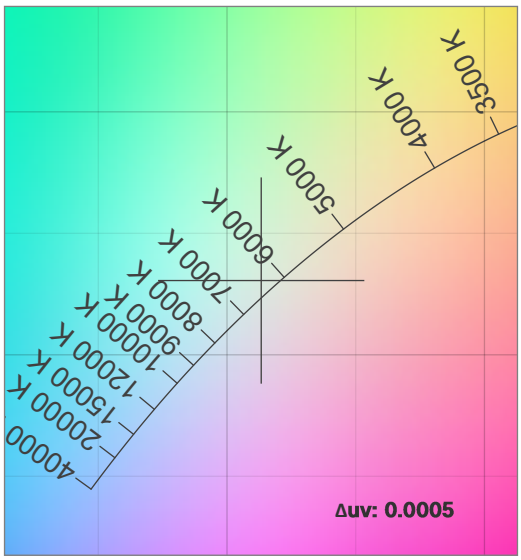
WELL Gobo: Full Spot - Wide - 8 HR

Chromaticity

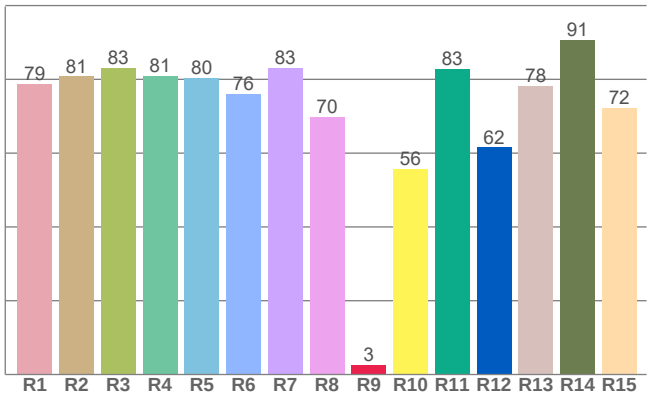
CIE 1931



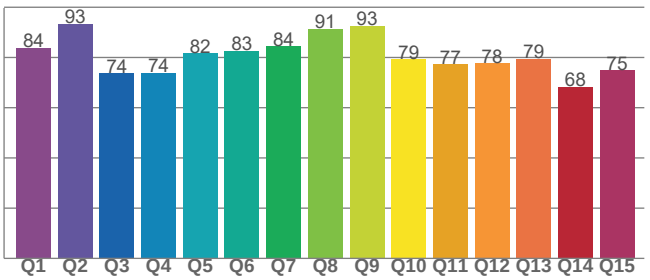
CIE 1931 - Zoom



CRI: 79.2 (R1-R8)



CQS: 79.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6469 K	0.313	0.331

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0005	0.331	0.198

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
79.2	2.5	79.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
65	77.6	98.5

Chromaticity Report

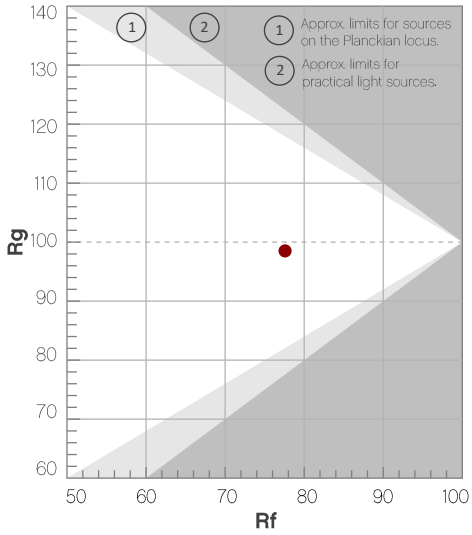
WELL Gobo: Full Spot - Wide - 8 HR

TM-30-18 Details

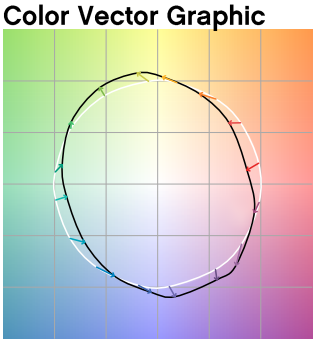
Rf 77.6
Fidelity Index (Rg)

Rg 98.5
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	73	-12%	-4%
2	81	-9%	6%
3	69	-5%	16%
4	74	3%	14%
5	76	10%	9%
6	84	9%	0%
7	90	3%	-5%
8	82	-5%	-8%
9	86	-11%	-1%
10	73	-10%	11%
11	66	-2%	19%
12	77	4%	13%
13	84	11%	4%
14	80	9%	-4%
15	74	7%	-20%
16	80	-3%	-10%

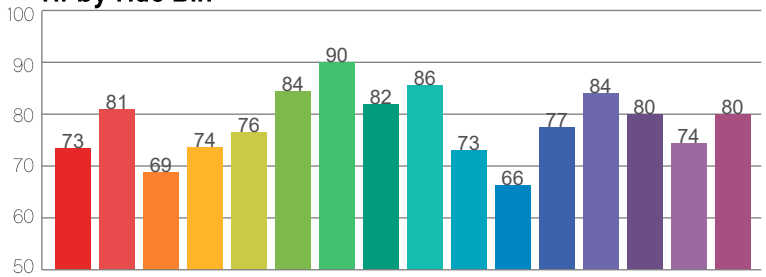


Color Vector Graphic

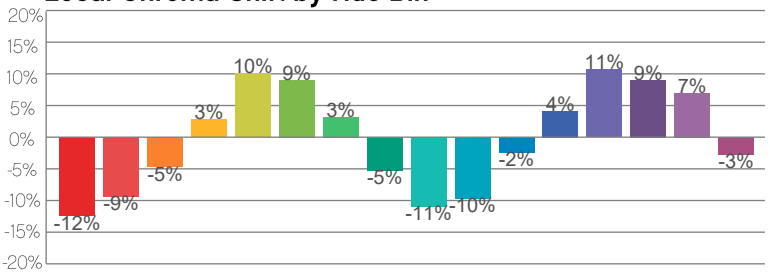


Color Distortion Graphic

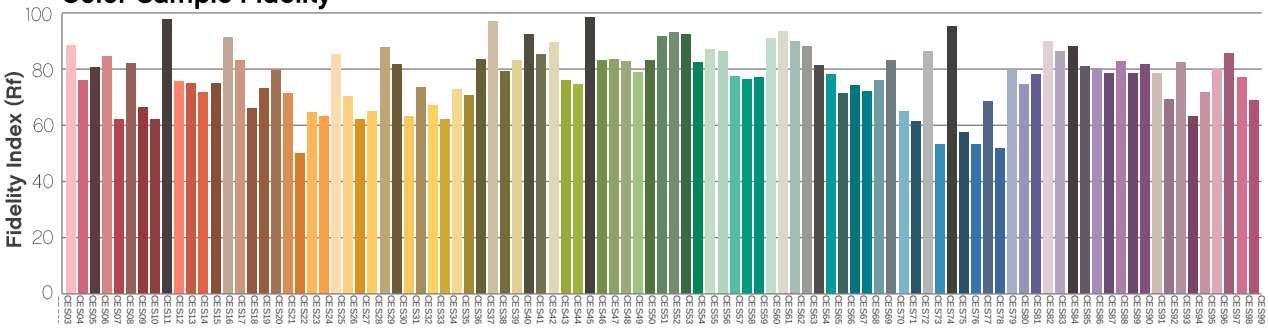
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

WELL Gobo: Full Spot - Narrow

Report Summary

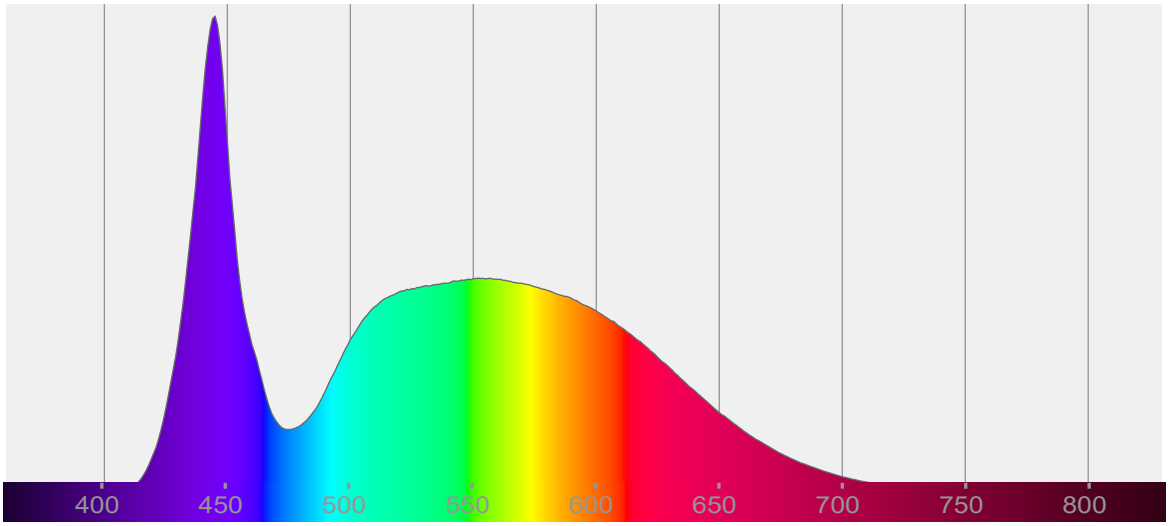
Measurements

Total Lumens: 2640 lm
Peak Intensity: 37169 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 6313K
Δuv: 0.0002

CRI: 79.2 CRI R9 Value: 2.4
CQS: 79.5
TLCI: 65
TM-30-18 Rf: 77.5
TM-30-18 Rg: 98.5
1st Dominant Wavelength: 445 nM
2nd Dominant Wavelength: 552 nM

Spectral Distribution



Tested Color

6313 K
CIE 1931 Coordinates:
X: 0.316 Y: 0.333

Color Temperature

6313 K

Light Quality

CRI: 79.2

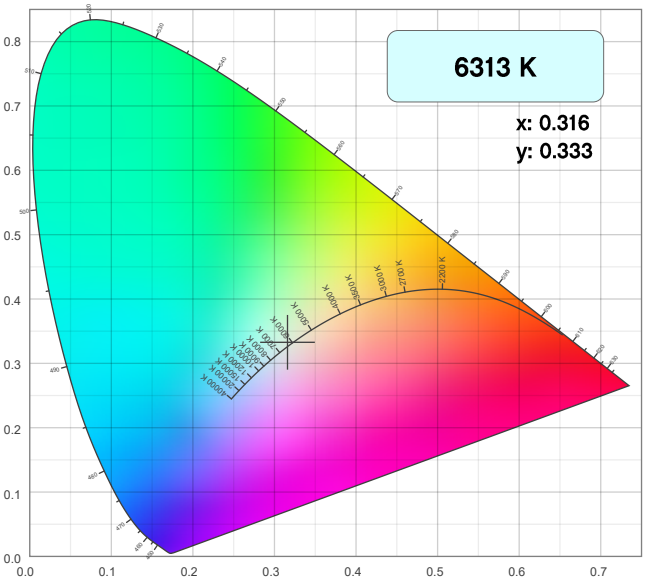
Notes:

Chromaticity Report

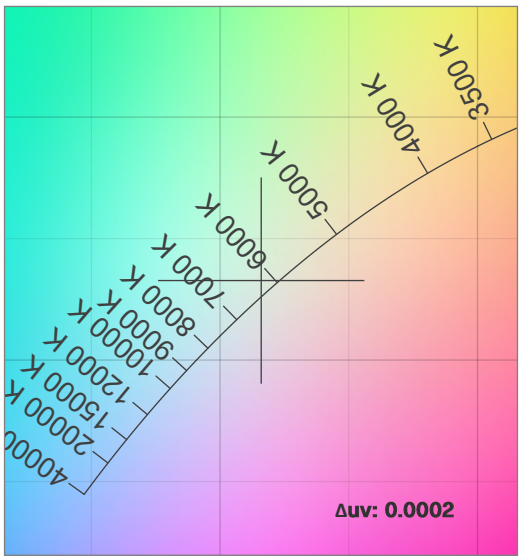
WELL Gobo: Full Spot - Narrow

Chromaticity

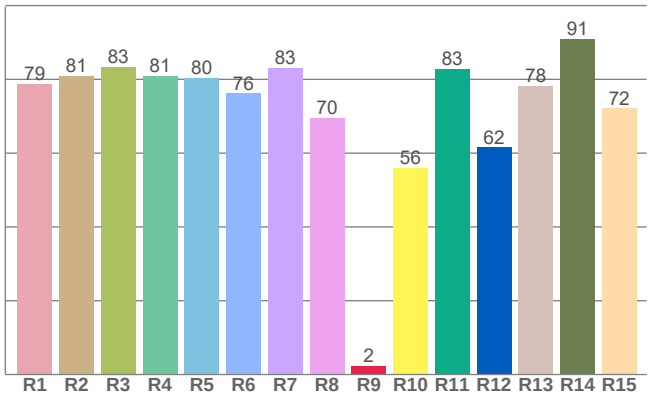
CIE 1931



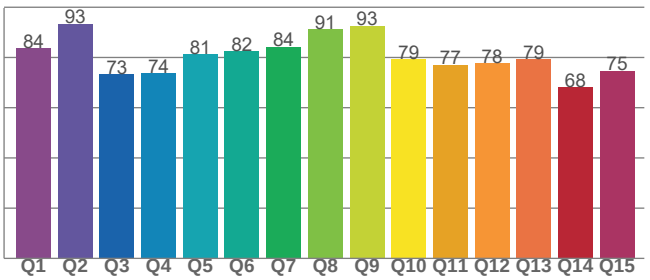
CIE 1931 - Zoom



CRI: 79.2 (R1-R8)



CQS: 79.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6313 K	0.316	0.333

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0002	0.333	0.199

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
79.2	2.4	79.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
65	77.5	98.5

Chromaticity Report

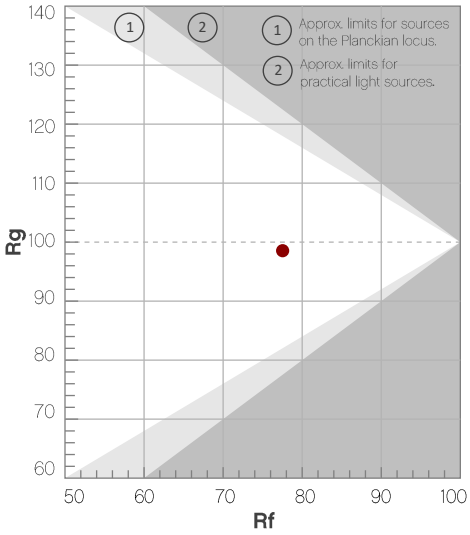
WELL Gobo: Full Spot - Narrow

TM-30-18 Details

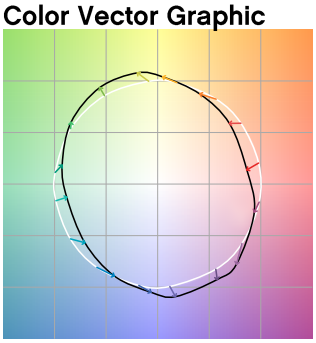
Rf 77.5
Fidelity Index (Rg)

Rg 98.5
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	73	-12%	-4%
2	81	-9%	6%
3	69	-5%	16%
4	73	3%	15%
5	76	10%	9%
6	84	9%	-1%
7	90	3%	-5%
8	82	-5%	-8%
9	86	-11%	-1%
10	73	-10%	11%
11	66	-2%	19%
12	78	4%	13%
13	84	11%	3%
14	80	9%	-4%
15	74	7%	-20%
16	80	-3%	-10%

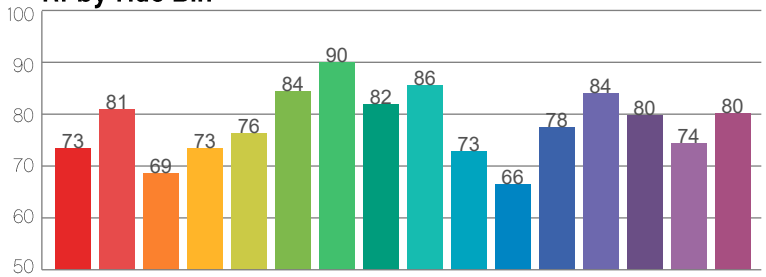


Color Vector Graphic

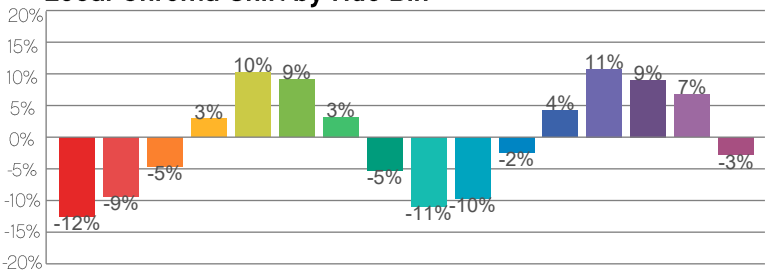


Color Distortion Graphic

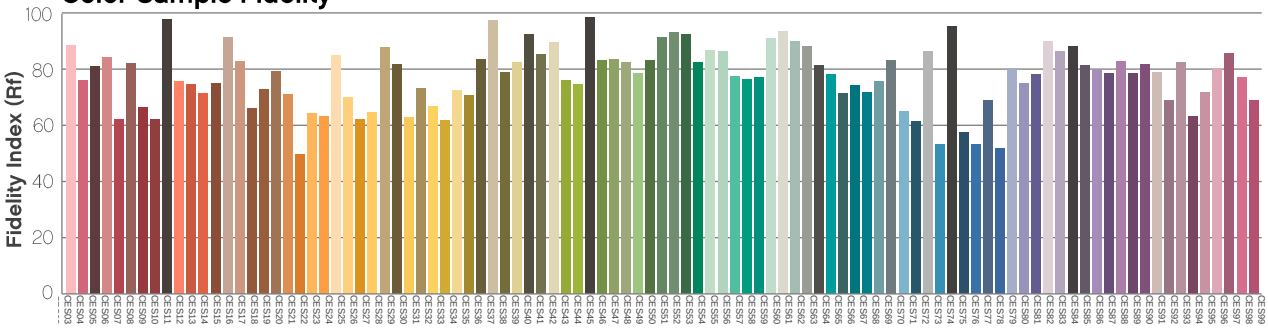
Rf by Hue Bin



Local Chroma Shift by Hue Bin



Color Sample Fidelity



Chromaticity Report

WELL Gobo: Full Spot - Narrow - 8 HR

Report Summary

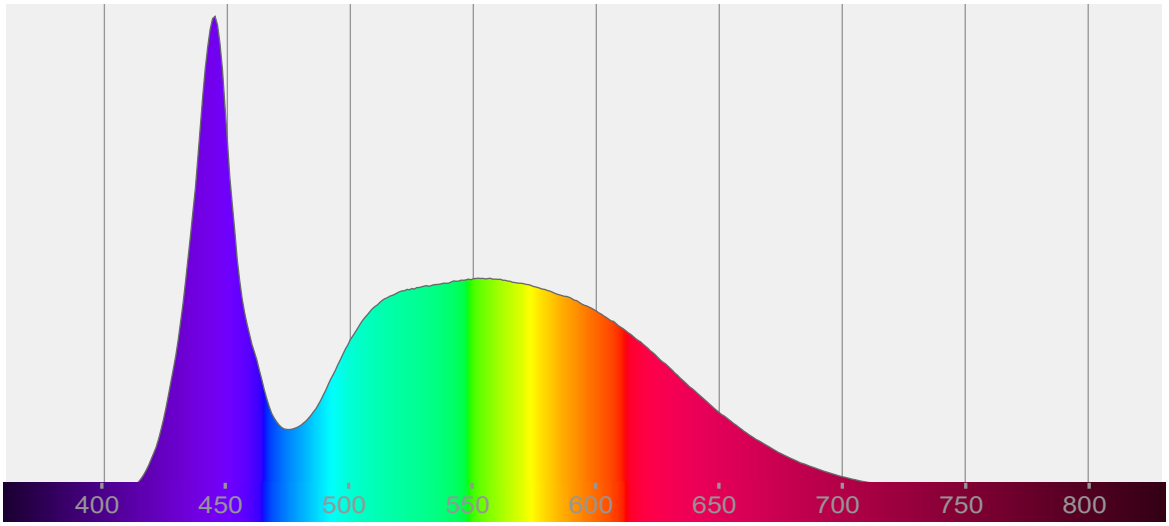
Measurements

Total Lumens: 2640 lm
Peak Intensity: 37169 cd
Fixture Efficacy: ffi lm/W

Correlated Color Temperature: 6313K
Δuv: 0.0002

CRI: 79.2 CRI R9 Value: 2.4
CQS: 79.5
TLCI: 65
TM-30-18 Rf: 77.5
TM-30-18 Rg: 98.5
1st Dominant Wavelength: 445 nM
2nd Dominant Wavelength: 552 nM

Spectral Distribution



Tested Color

6313 K
CIE 1931 Coordinates:
X: 0.316 Y: 0.333

Color Temperature

6313 K

Light Quality

CRI: 79.2

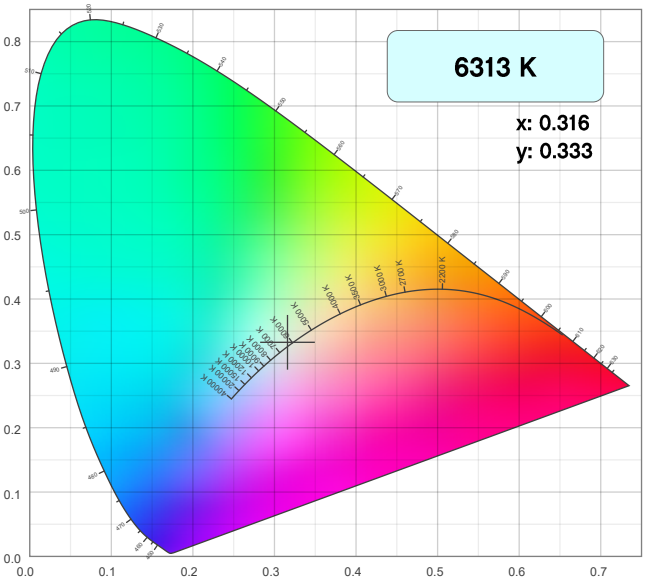
Notes:

Chromaticity Report

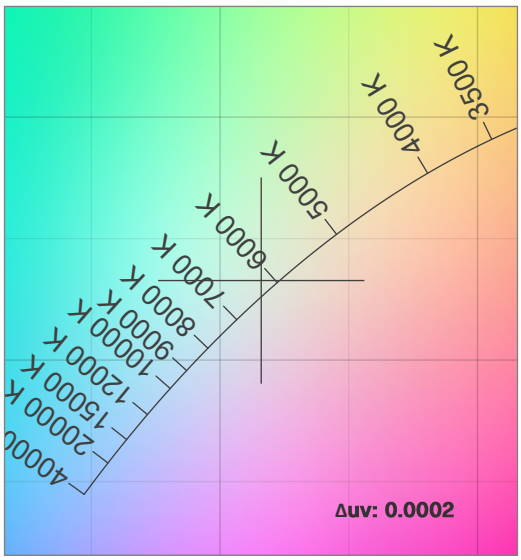
WELL Gobo: Full Spot - Narrow - 8 HR

Chromaticity

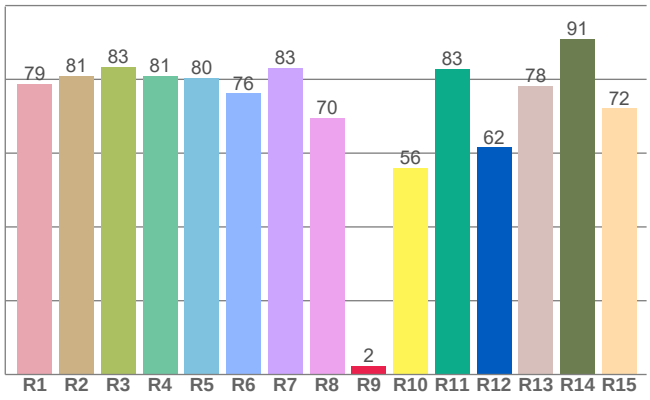
CIE 1931



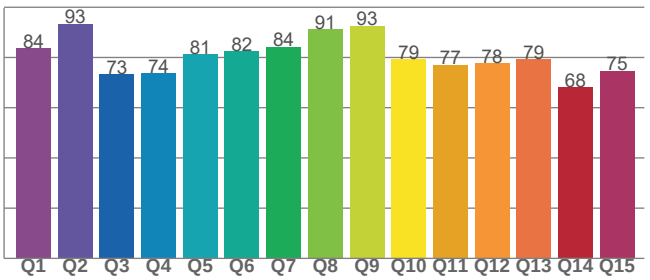
CIE 1931 - Zoom



CRI: 79.2 (R1-R8)



CQS: 79.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6313 K	0.316	0.333

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0002	0.333	0.199

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
79.2	2.4	79.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM-30-18 - Rf	TM-30-18 Rg
65	77.5	98.5

Chromaticity Report

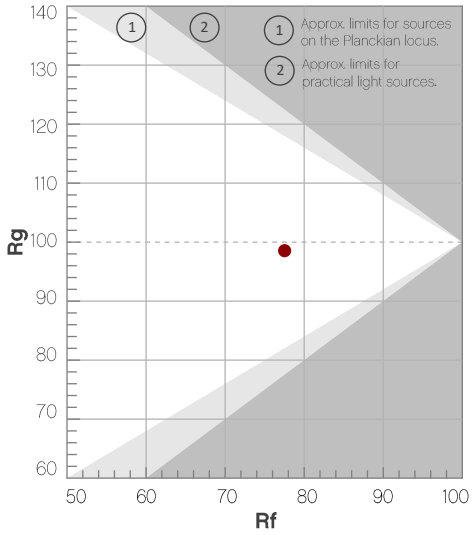
WELL Gobo: Full Spot - Narrow - 8 HR

TM-30-18 Details

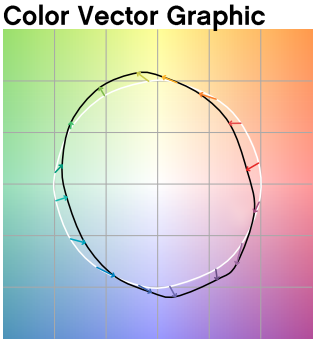
Rf 77.5
Fidelity Index (Rg)

Rg 98.5
Gamut Index (Rg)

Hue Bin	R_f	Chroma Shift	Hue Shift
1	73	-12%	-4%
2	81	-9%	6%
3	69	-5%	16%
4	73	3%	15%
5	76	10%	9%
6	84	9%	-1%
7	90	3%	-5%
8	82	-5%	-8%
9	86	-11%	-1%
10	73	-10%	11%
11	66	-2%	19%
12	78	4%	13%
13	84	11%	3%
14	80	9%	-4%
15	74	7%	-20%
16	80	-3%	-10%

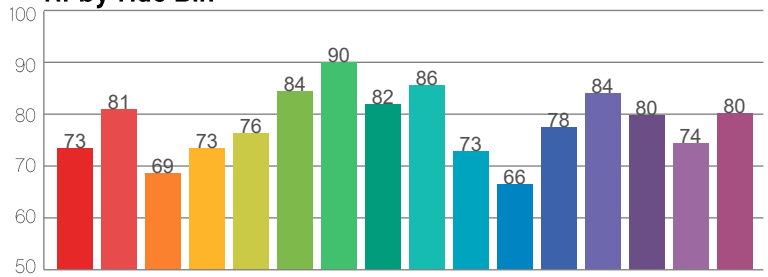


Color Vector Graphic

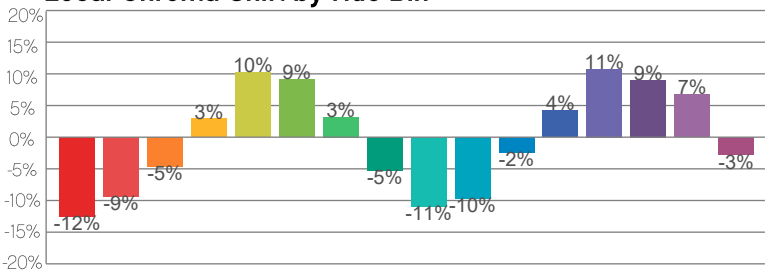


Color Distortion Graphic

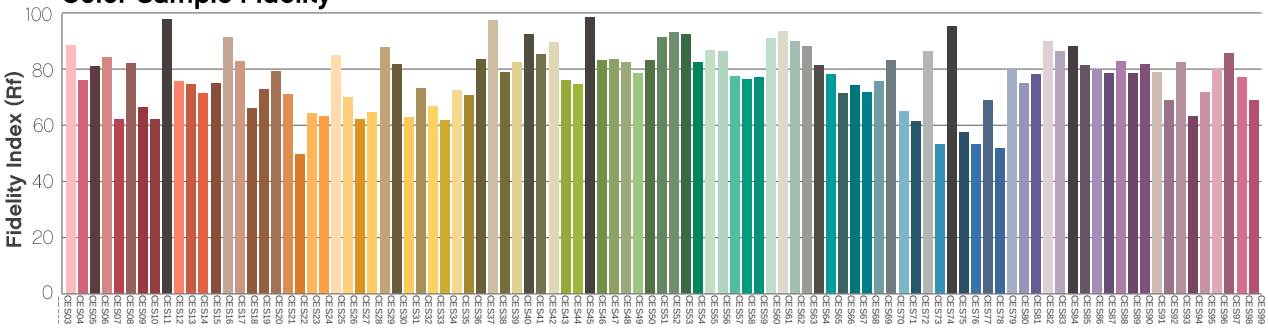
Rf by Hue Bin



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.