WELL BATTEN 14

WIRELESS EVENT LED LUMINAIRE

PHOTOMETRICS REPORT

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 Davie, 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.

WELL BATTEN 14

WIRELESS EVENT LED LUMINAIRE

Photometrics & Chromaticity Reports

CHAUVET PROFESSIONAL

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-5hrs

Report Summary

Measurements

Fixture Output: 2319 lm
Fixture Peak: 15790 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 631 lux
Color Temperature: 6276 K
CRI: 85.0 CRI R9 Value: 48.7
CQS: 90.0
TLCI: 75
TM-30 Rf: 87.5
TM-30 Rg: 110.8
Beam Angle (50%): 16.1°
Field Angle (10%): 33.9°
Cutoff Angle (3%): 61.3°

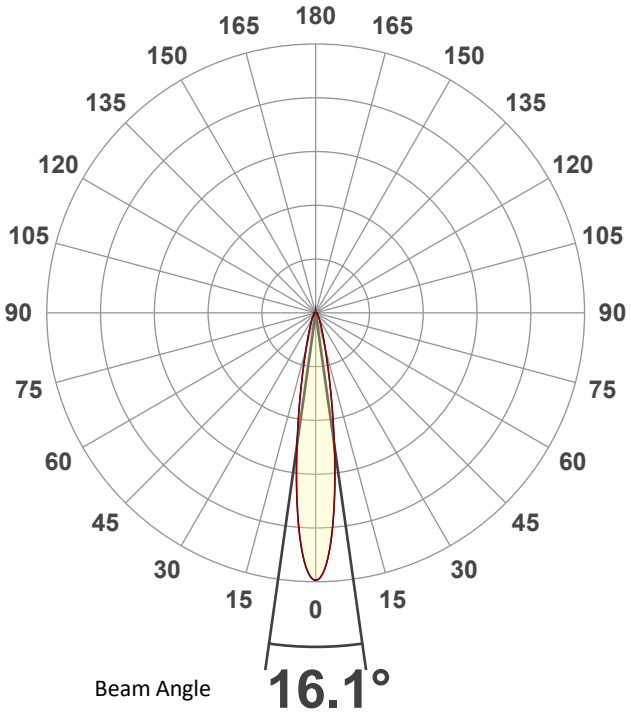
Conditions

AC Supply: 120 V, 60.1 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

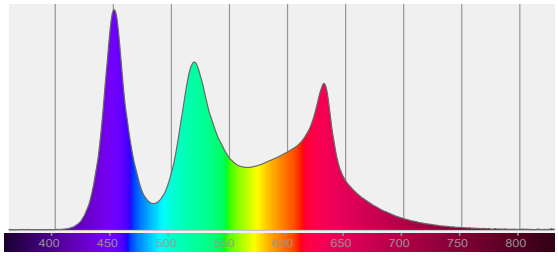
Overall Measurement

Angular Beam Distribution



Beam Angle 16.1°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.317
Y: 0.330

Light Quality

CRI: 85.0

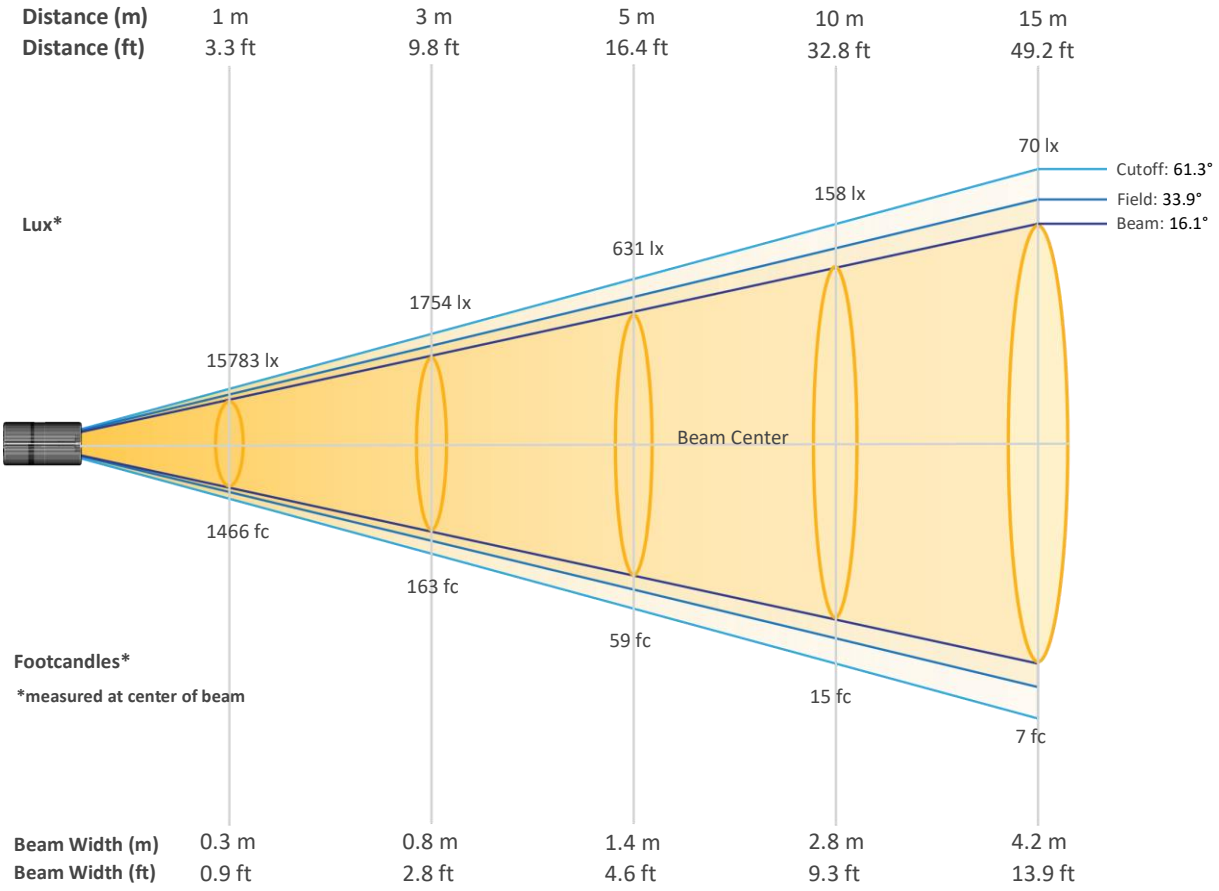
Color Temperature

6276 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-5hrs

Beam Details

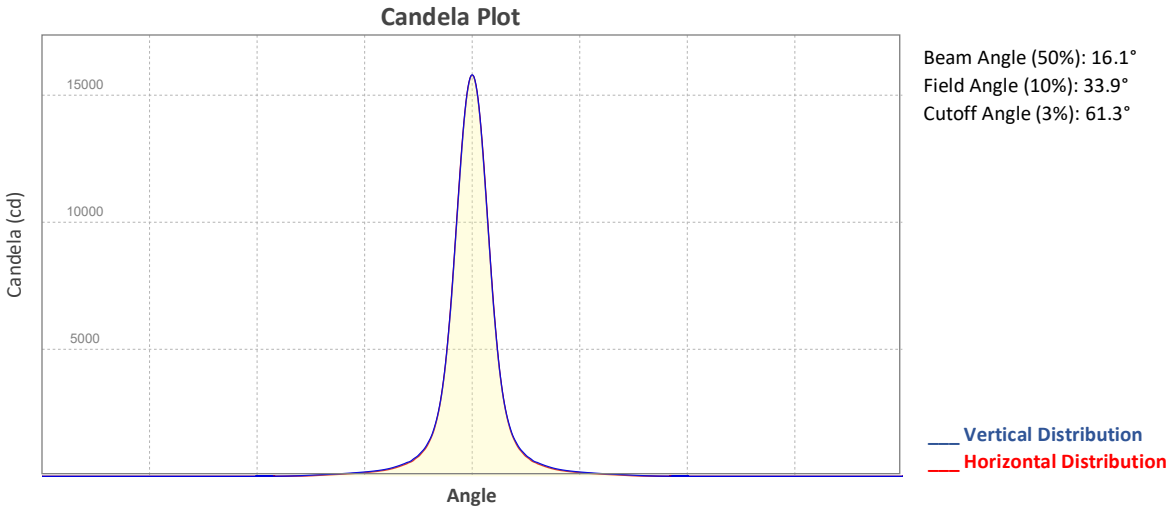


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15783	3946	1754	986	631	438	322	247	195	158
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	130	110	93	81	70	62	55	49	44	39
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1466	367	163	92	59	41	30	23	18	15
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	12	10	9	7	7	6	5	5	4	4

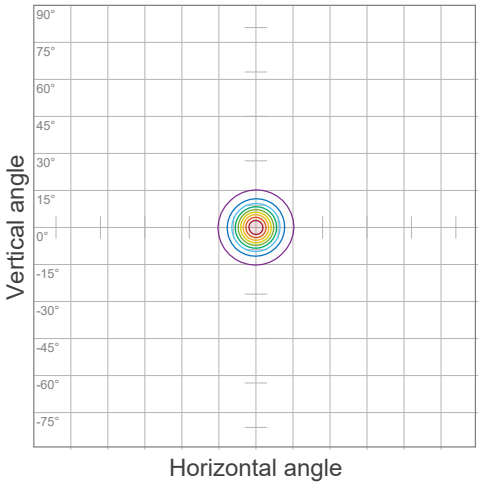
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-5hrs



ISO Diagrams

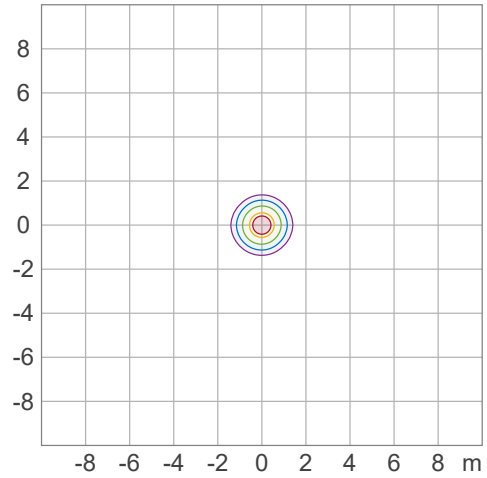
ISO Candela Diagram



90 %	14205.1 cd
80 %	12626.8 cd
70 %	11048.4 cd
60 %	9470.1 cd
50 %	7891.7 cd
40 %	6313.4 cd
30 %	4735.0 cd
20 %	3156.7 cd
10 %	1578.3 cd

Peak intensity: 15783.5 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	876.9 lx
30.0 %	526.1 lx
10.0 %	175.4 lx
5.0 %	87.7 lx
3.0 %	52.6 lx

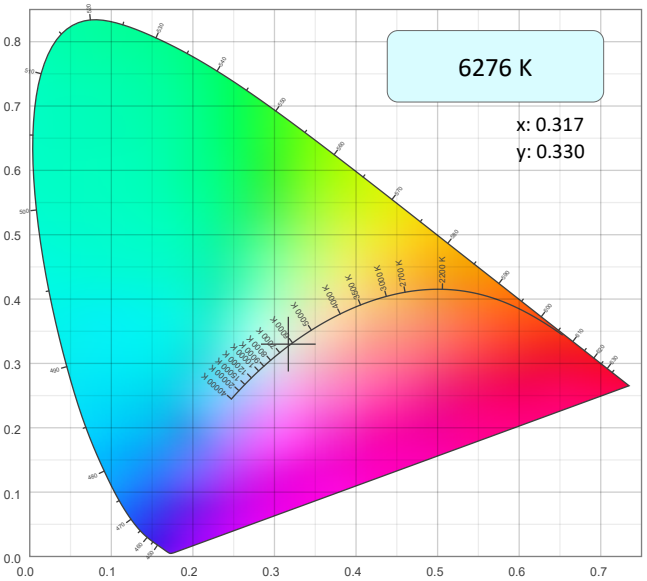
Peak illuminance: 1753.7 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

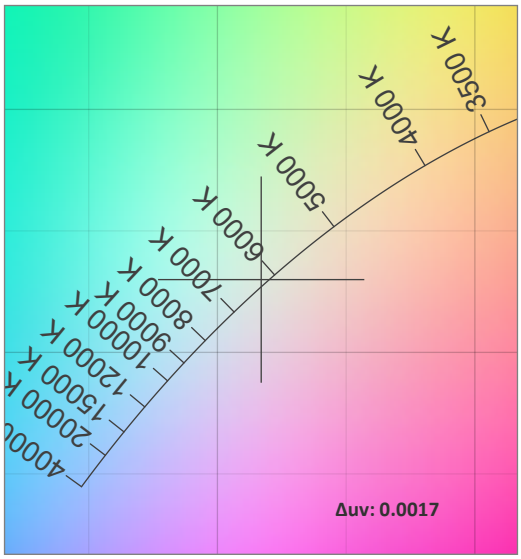
Well Batten 14: Standard Optics - Full Power-5hrs

Chromaticity

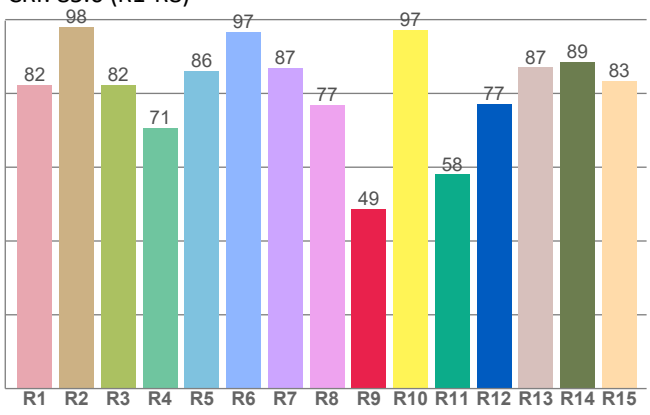
CIE 1931



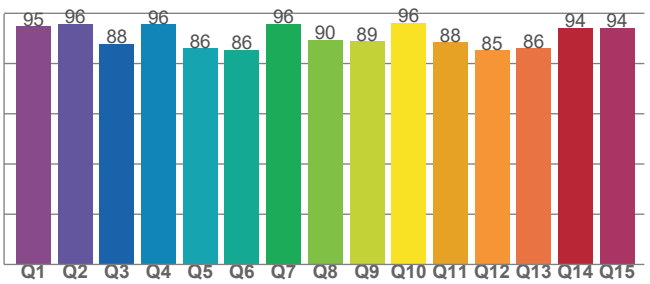
CIE 1931 - Zoom



CRI: 85.0 (R1-R8)



CQS: 90.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6276 K	0.317	0.330

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0017	0.330	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.0	48.7	90.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
75	87.5	110.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-5hrs

TM-30 Details

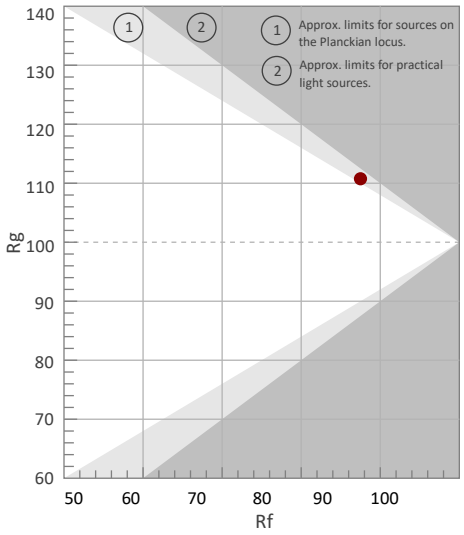
Rf 87.5

Fidelity Index (Rg)

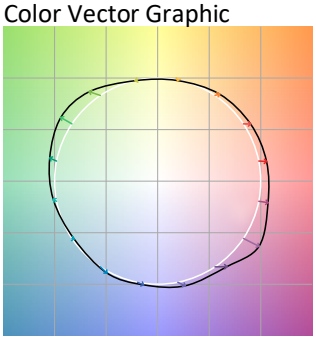
Rg 110.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	90	0%	2%
6	84	9%	7%
7	81	12%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-1%	2%
11	86	1%	9%
12	91	1%	6%
13	91	5%	6%
14	81	6%	10%
15	81	17%	2%
16	84	9%	0%

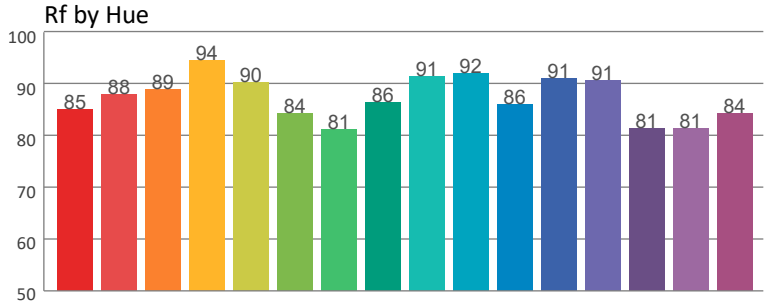


Color Vector Graphic

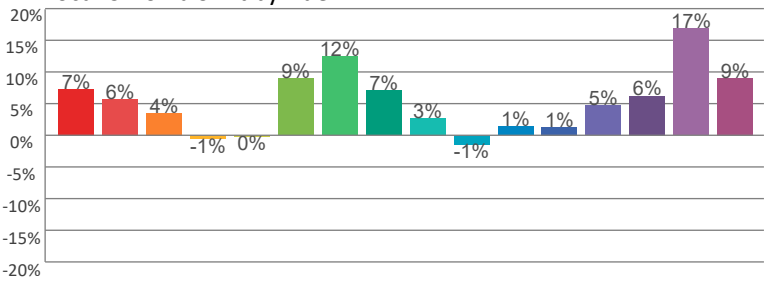


Color Distortion Graphic

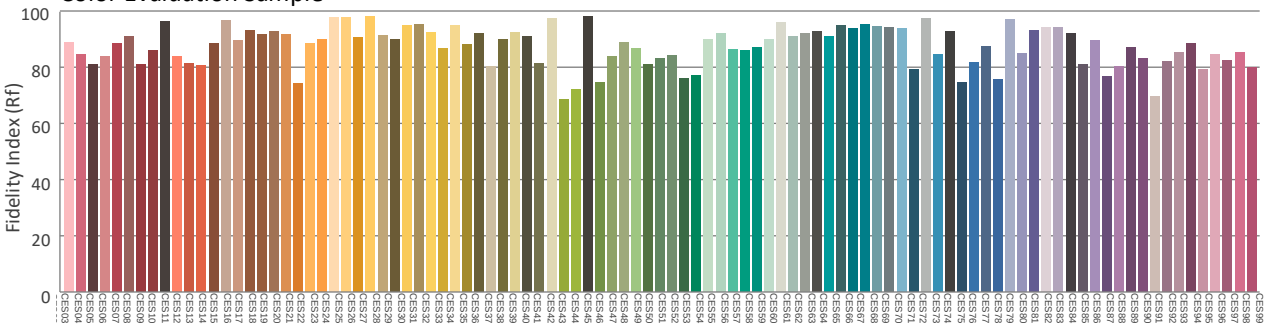
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-8hrs

Report Summary

Measurements

Fixture Output: 1437 lm
Fixture Peak: 9807 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 392 lux
Color Temperature: 6230 K
CRI: 85.0 CRI R9 Value: 49.9
CQS: 89.9
TLCI: 74
TM-30 Rf: 87.5
TM-30 Rg: 110.8
Beam Angle (50%): 16°
Field Angle (10%): 33.8°
Cutoff Angle (3%): 61.1°

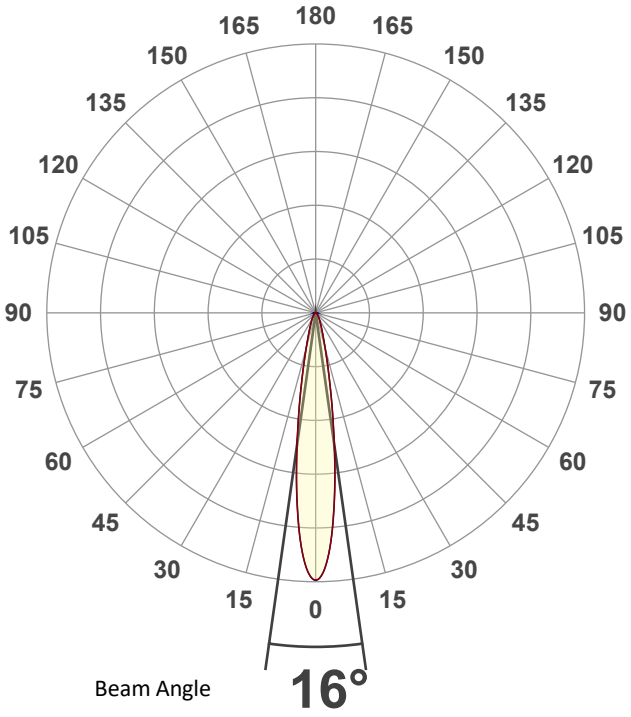
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

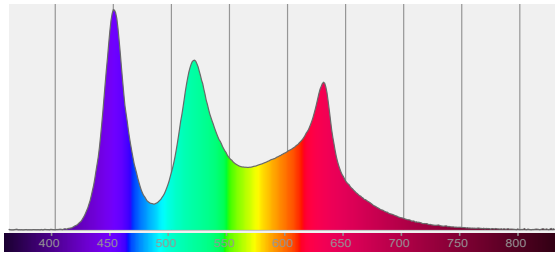
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.318
Y: 0.331

Light Quality

CRI: 85.0

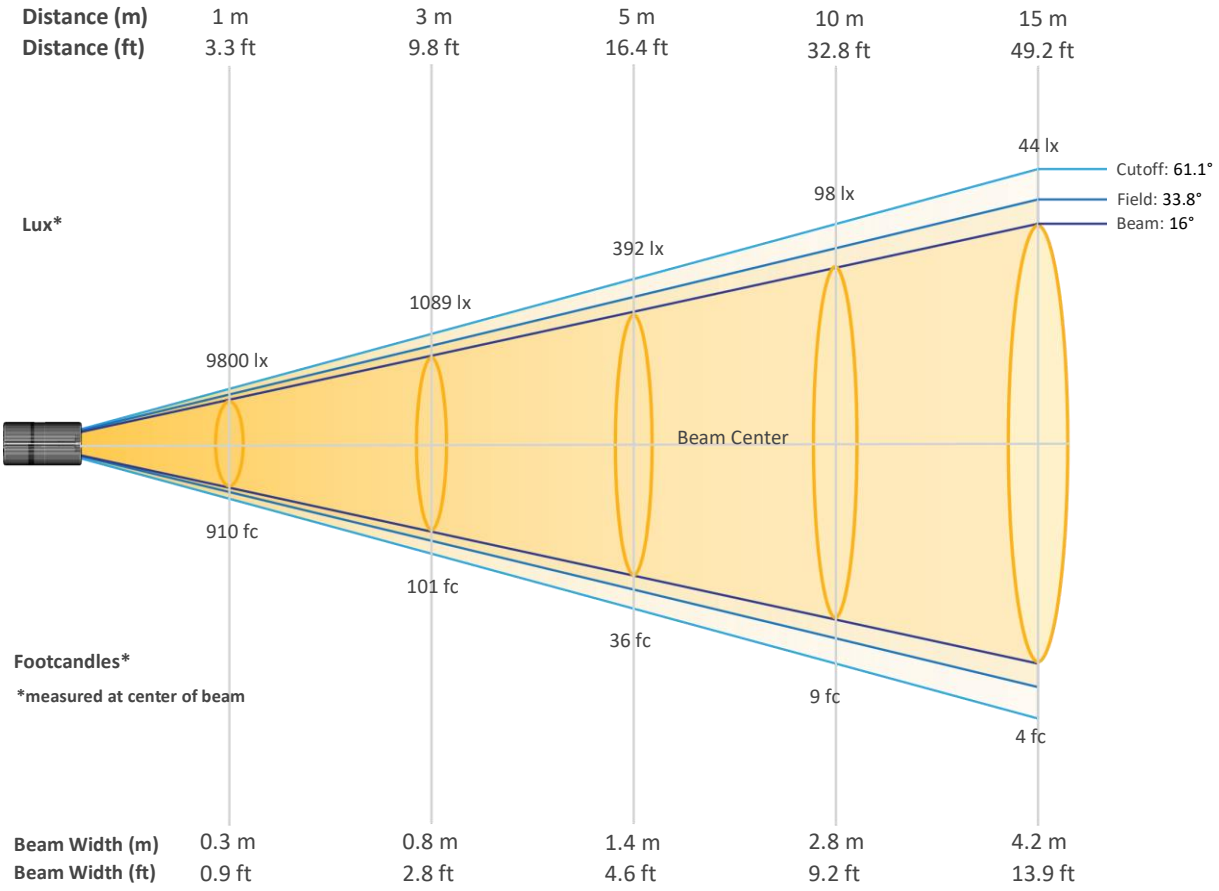
Color Temperature

6230 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-8hrs

Beam Details

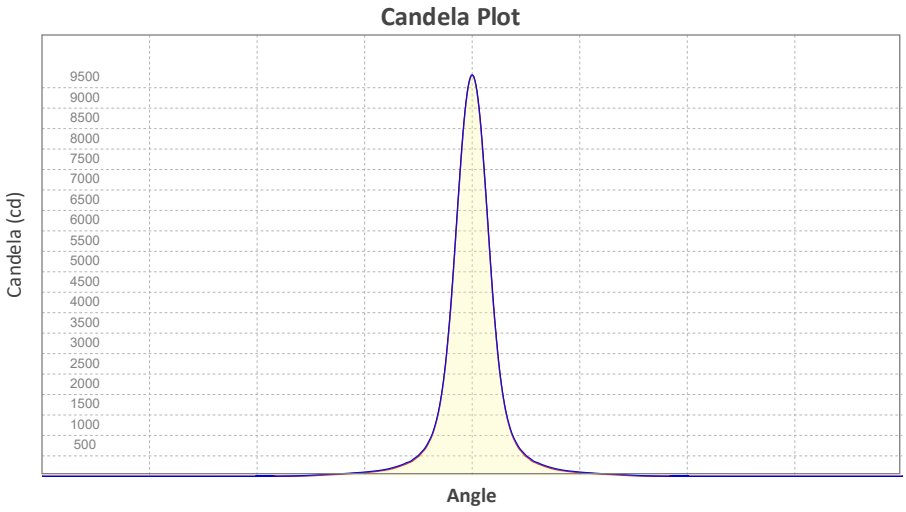


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	9800	2450	1089	613	392	272	200	153	121	98
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	81	68	58	50	44	38	34	30	27	25
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	910	228	101	57	36	25	19	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	8	6	5	5	4	4	3	3	3	2

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-8hrs

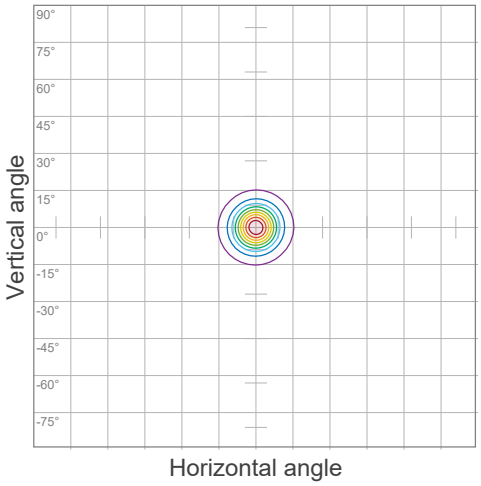


Beam Angle (50%): 16°
Field Angle (10%): 33.8°
Cutoff Angle (3%): 61.1°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

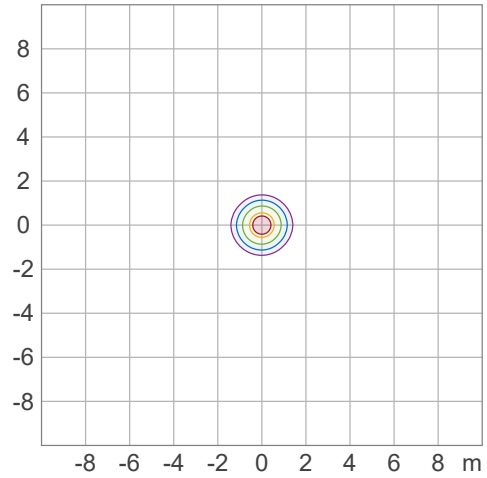
ISO Candela Diagram



90 %	8820.1 cd
80 %	7840.1 cd
70 %	6860.1 cd
60 %	5880.1 cd
50 %	4900.1 cd
40 %	3920.0 cd
30 %	2940.0 cd
20 %	1960.0 cd
10 %	980.0 cd

Peak intensity: 9800.1 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	544.5 lx
30.0 %	326.7 lx
10.0 %	108.9 lx
5.0 %	54.4 lx
3.0 %	32.7 lx

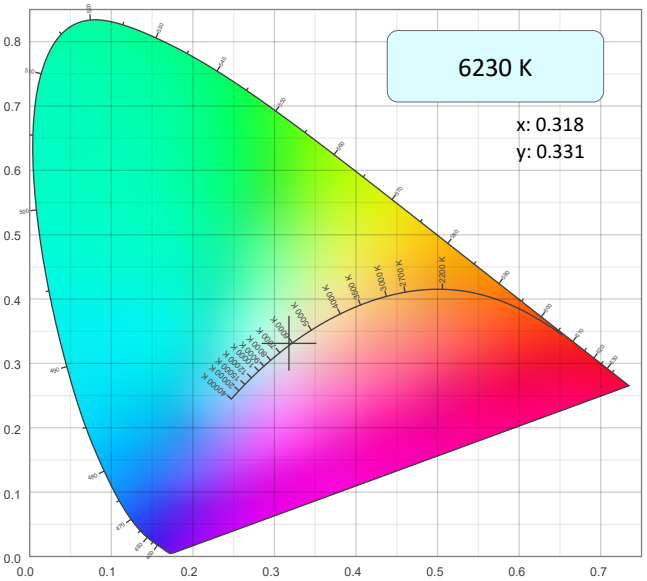
Peak illuminance: 1088.9 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

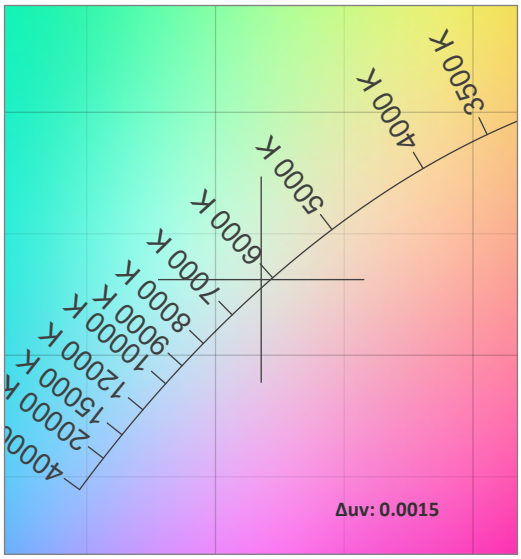
Well Batten 14: Standard Optics - Full Power-8hrs

Chromaticity

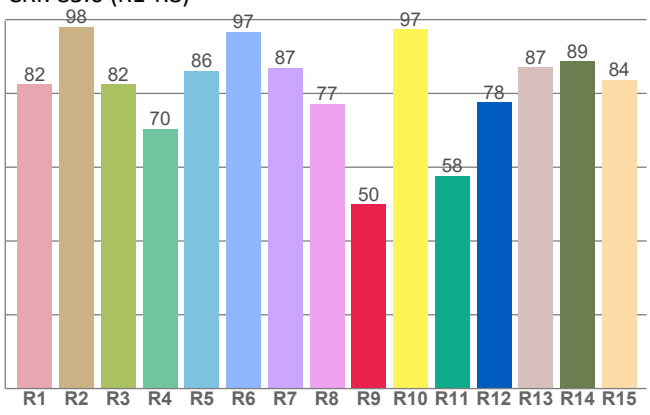
CIE 1931



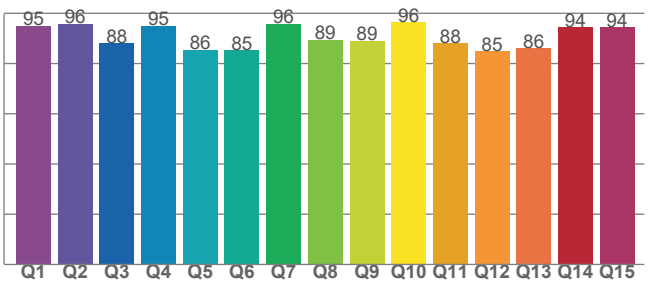
CIE 1931 - Zoom



CRI: 85.0 (R1-R8)



CQS: 89.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6230 K	0.318	0.331

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0015	0.331	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.0	49.9	89.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	87.5	110.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-8hrs

TM-30 Details

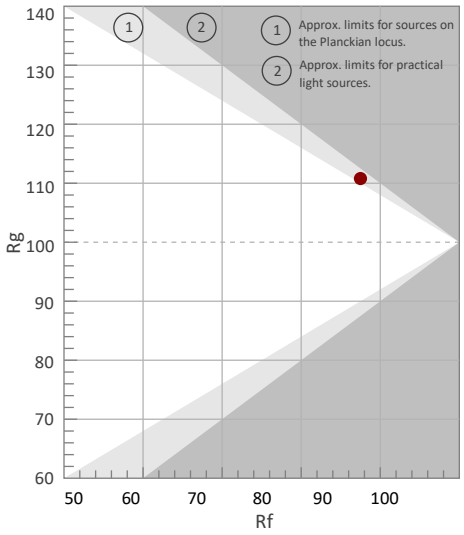
Rf 87.5

Fidelity Index (Rg)

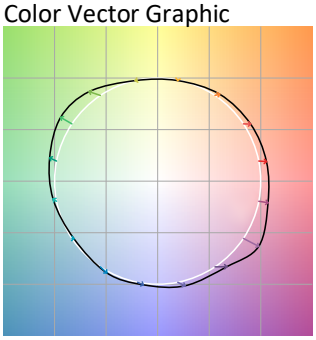
Rg 110.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	90	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-1%	1%
11	86	1%	8%
12	91	1%	6%
13	91	5%	6%
14	81	6%	10%
15	82	17%	2%
16	84	9%	0%

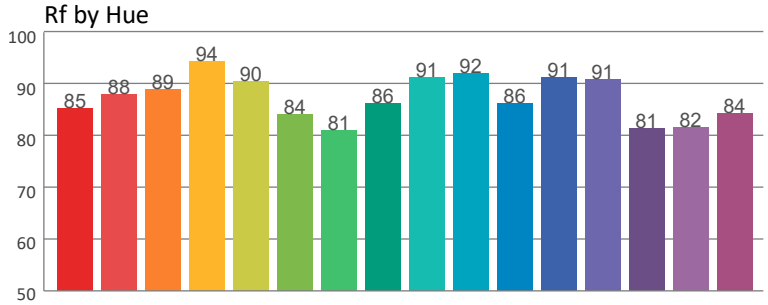


Color Vector Graphic

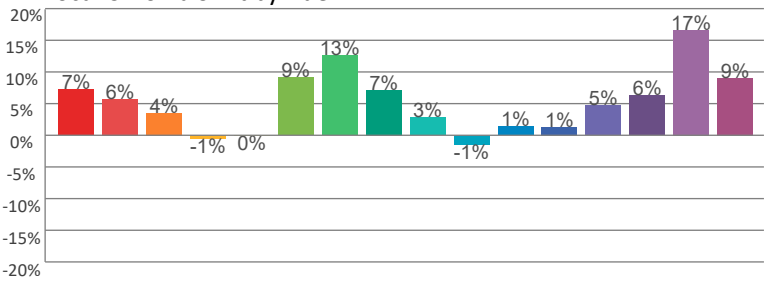


Color Distortion Graphic

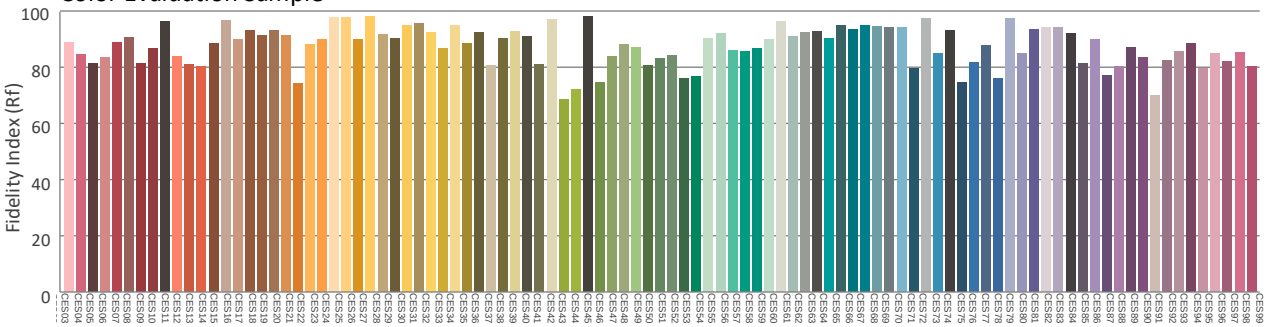
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-12hrs

Report Summary

Measurements

Fixture Output: 890 lm
Fixture Peak: 6084 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 243 lux
Color Temperature: 6195 K
CRI: 85.2 CRI R9 Value: 51.9
CQS: 89.8
TLCI: 73
TM-30 Rf: 87.6
TM-30 Rg: 110.7
Beam Angle (50%): 16.1°
Field Angle (10%): 33.9°
Cutoff Angle (3%): 61.1°

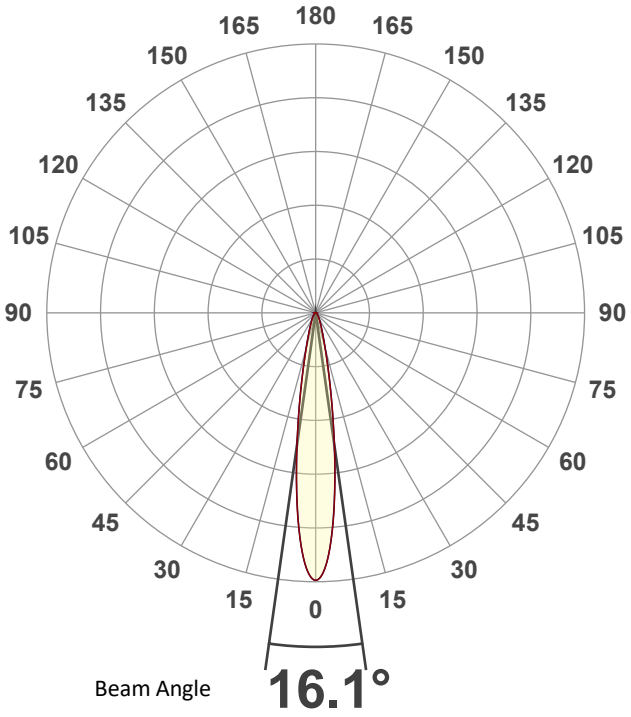
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

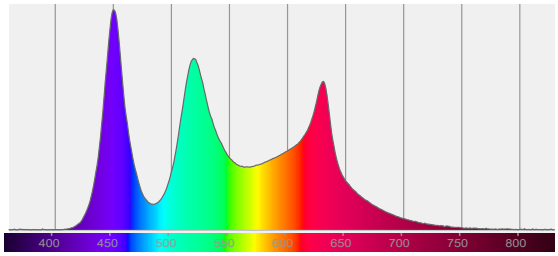
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.318
Y: 0.332

Light Quality

CRI: 85.2

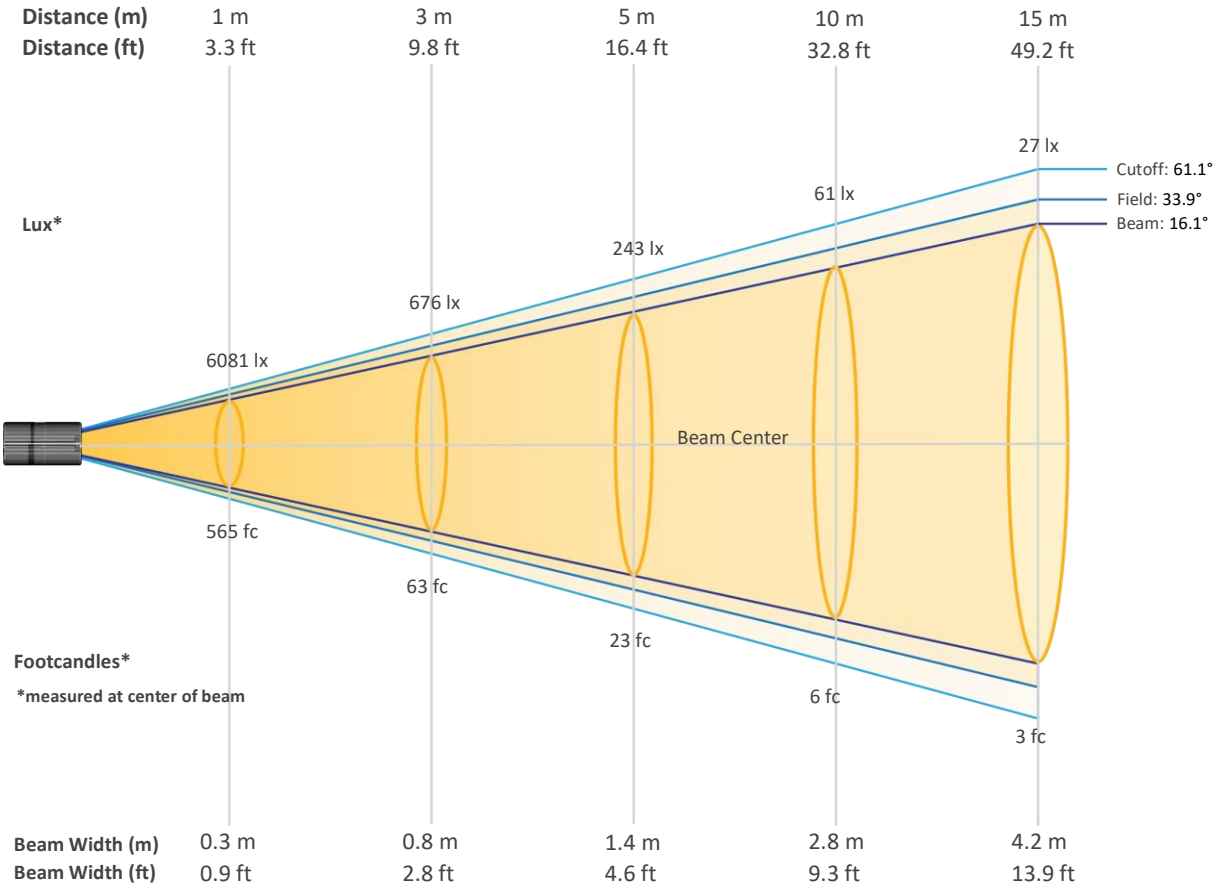
Color Temperature

6195 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-12hrs

Beam Details

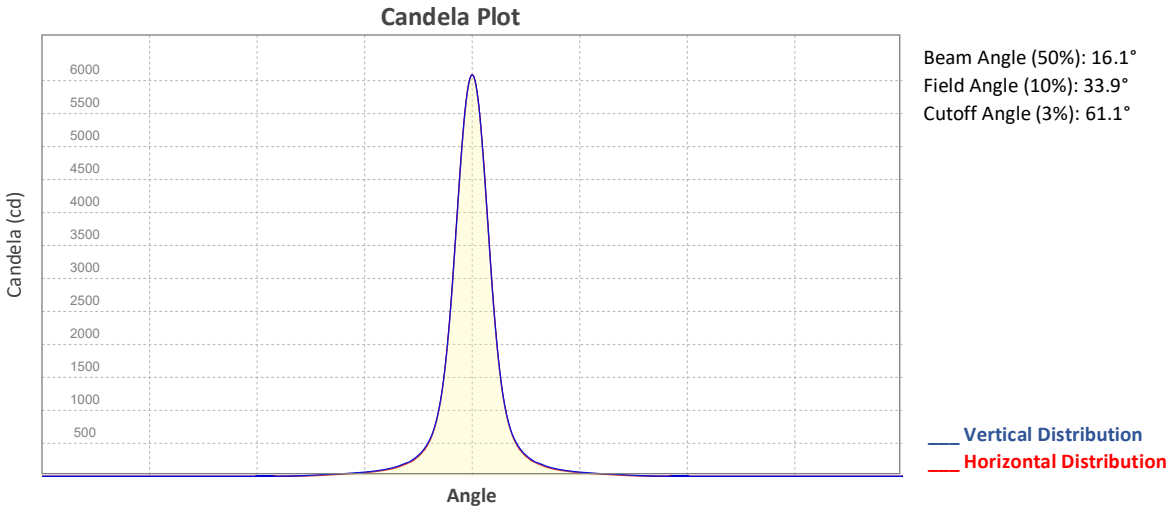


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	6081	1520	676	380	243	169	124	95	75	61
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	50	42	36	31	27	24	21	19	17	15
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	565	141	63	35	23	16	12	9	7	6
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	5	4	3	3	3	2	2	2	2	1

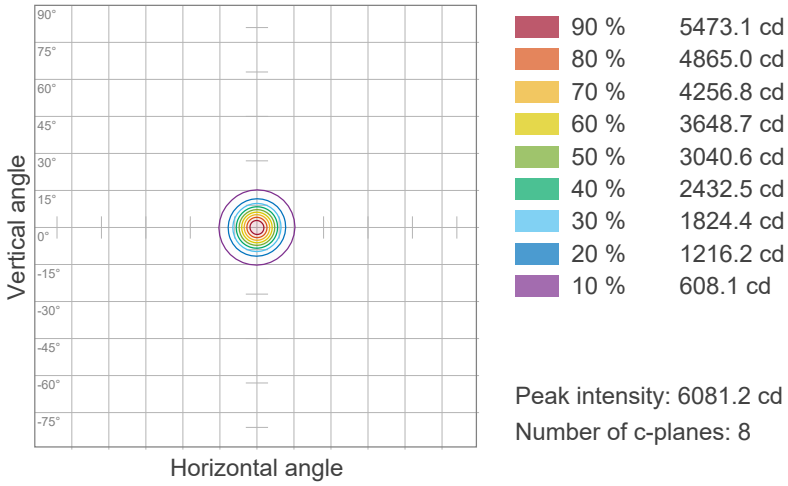
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-12hrs



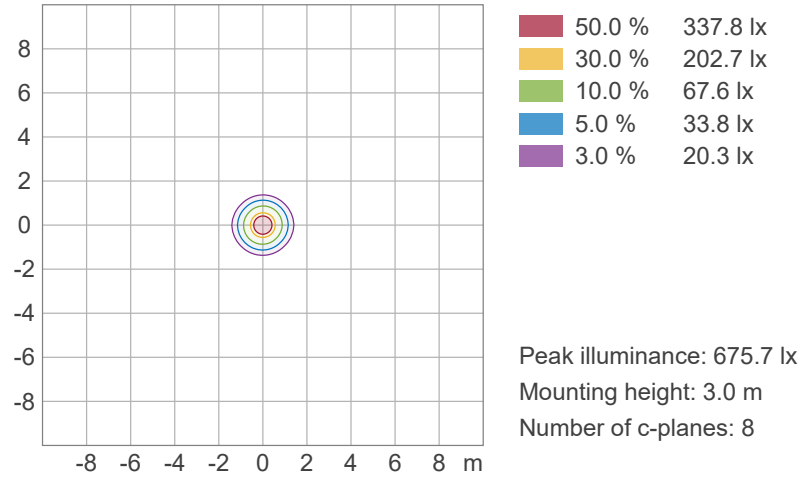
ISO Diagrams

ISO Candela Diagram



Peak intensity: 6081.2 cd
Number of c-planes: 8

ISO Lux Diagram



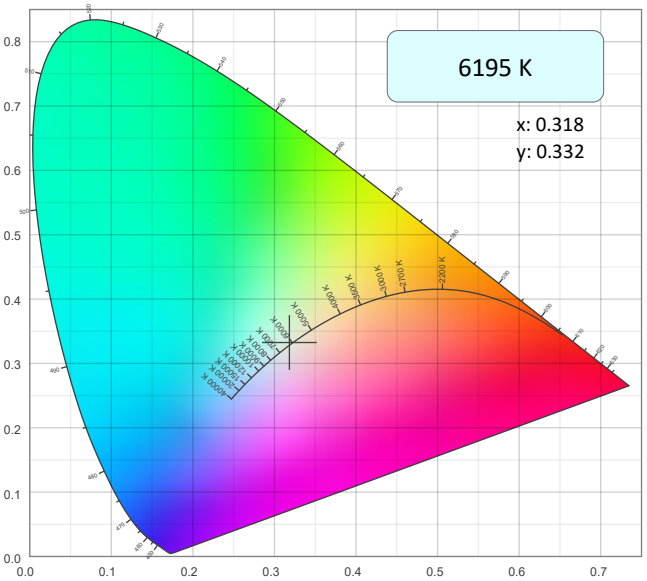
Peak illuminance: 675.7 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

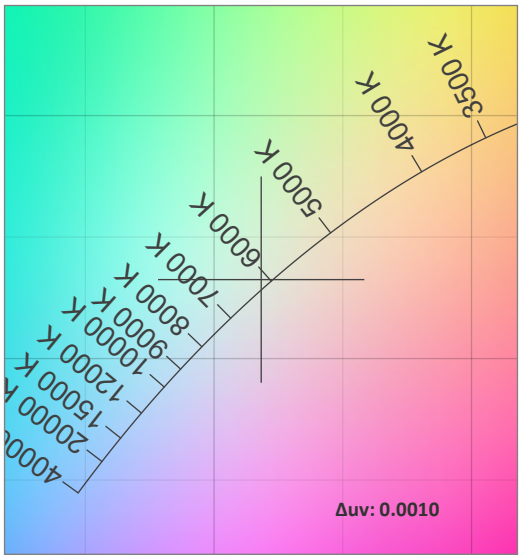
Well Batten 14: Standard Optics - Full Power-12hrs

Chromaticity

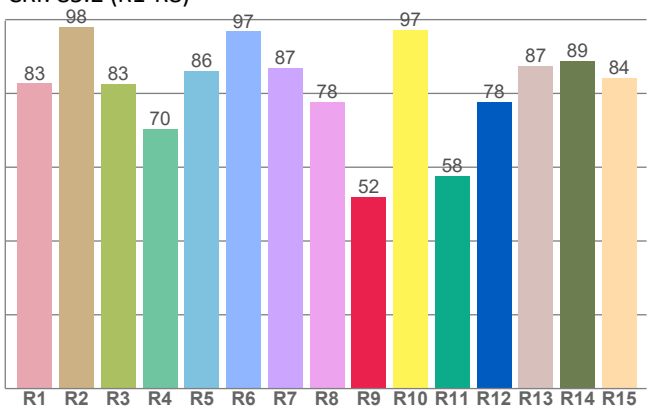
CIE 1931



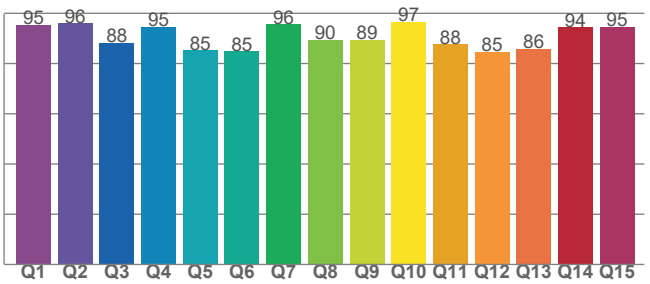
CIE 1931 - Zoom



CRI: 85.2 (R1-R8)



CQS: 89.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6195 K	0.318	0.332

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0010	0.332	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.2	51.9	89.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	87.6	110.7

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-12hrs

TM-30 Details

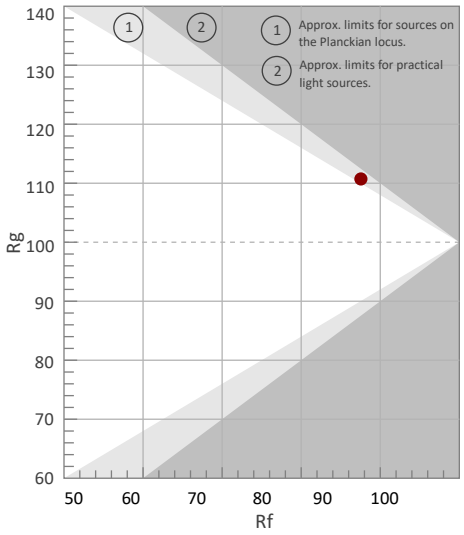
Rf 87.6

Fidelity Index (Rg)

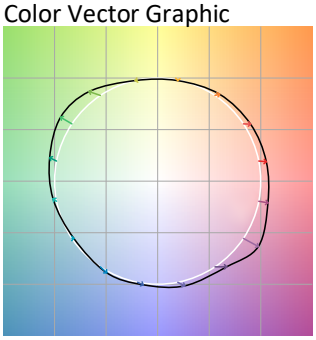
Rg 110.7

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	3%	-3%
4	94	-1%	0%
5	90	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-2%	1%
11	86	1%	8%
12	91	1%	6%
13	91	5%	6%
14	82	6%	10%
15	82	16%	2%
16	84	9%	0%

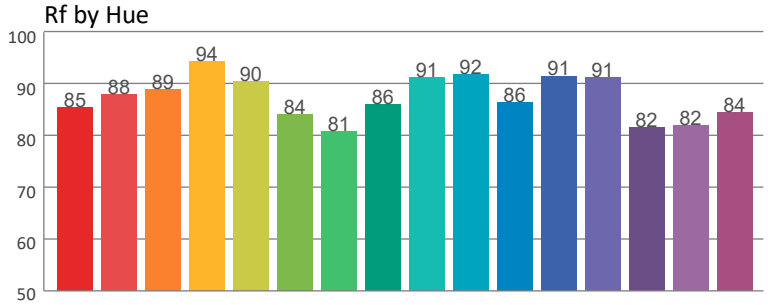


Color Vector Graphic

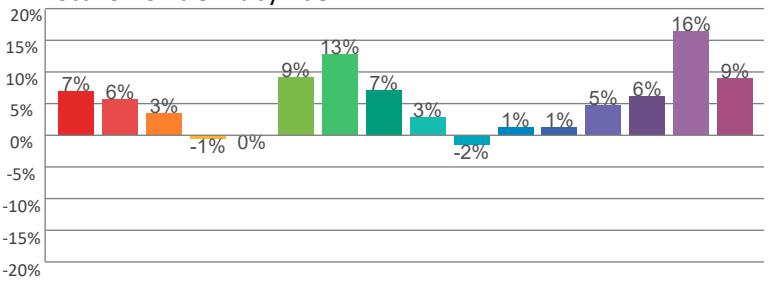


Color Distortion Graphic

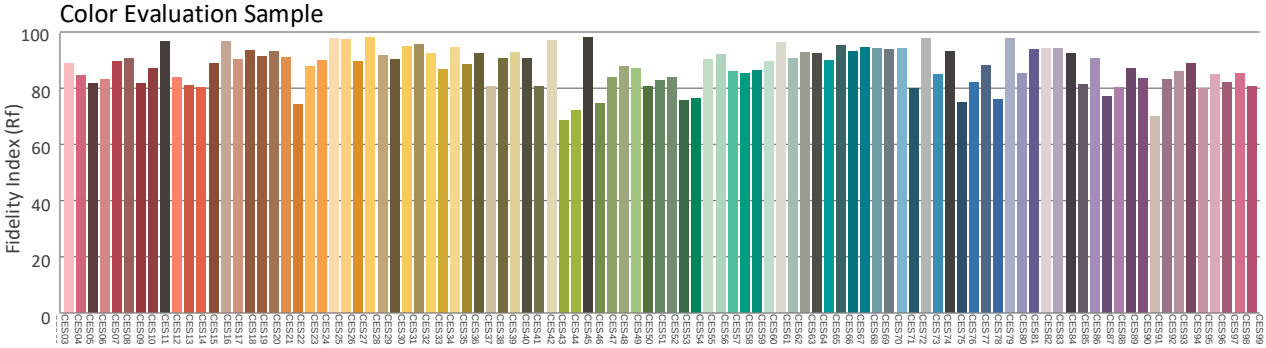
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-18hrs

Report Summary

Measurements

Fixture Output: 548 lm
Fixture Peak: 3700 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 148 lux
Color Temperature: 6130 K
CRI: 85.7 CRI R9 Value: 56.0
CQS: 89.8
TLCI: 72
TM-30 Rf: 87.8
TM-30 Rg: 110.5
Beam Angle (50%): 16.1°
Field Angle (10%): 34°
Cutoff Angle (3%): 61.5°

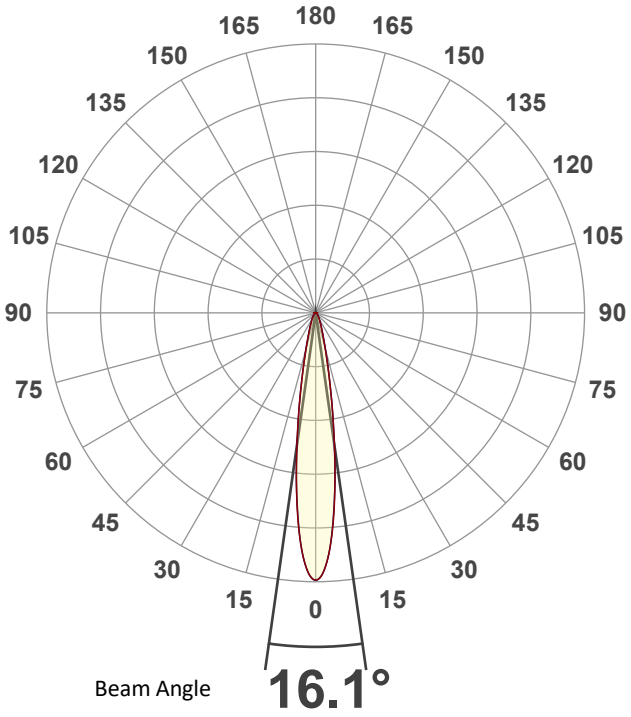
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

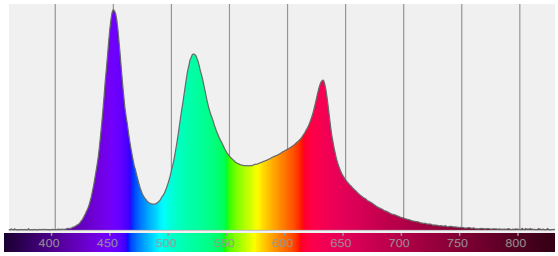
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.319
Y: 0.335

Light Quality

CRI: 85.7

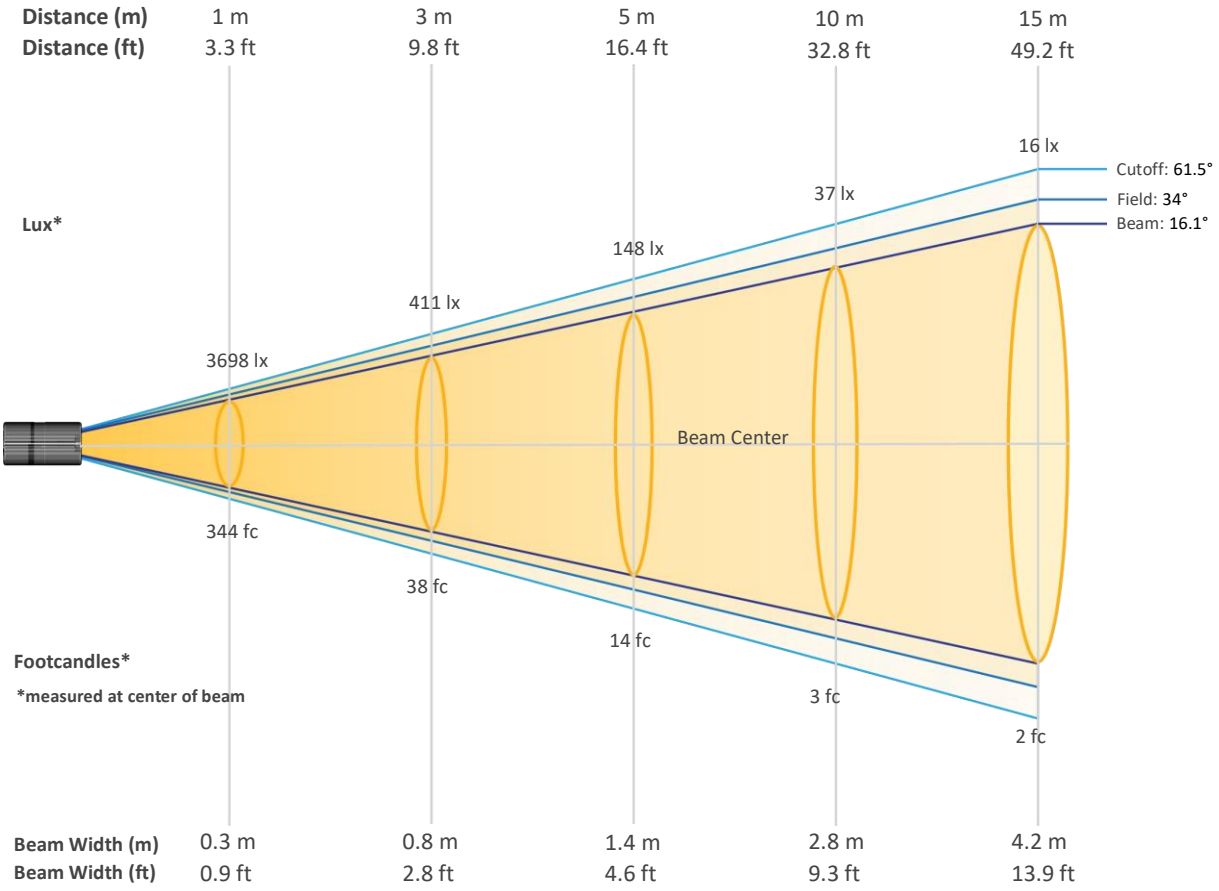
Color Temperature

6130 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-18hrs

Beam Details



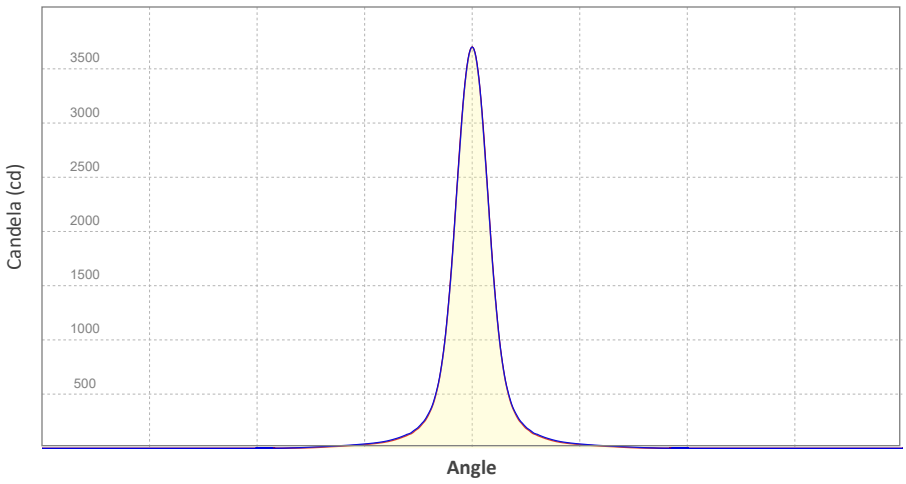
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3698	925	411	231	148	103	75	58	46	37
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	31	26	22	19	16	14	13	11	10	9
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	344	86	38	21	14	10	7	5	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	2	2	2	2	1	1	1	1	1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-18hrs

Candela Plot

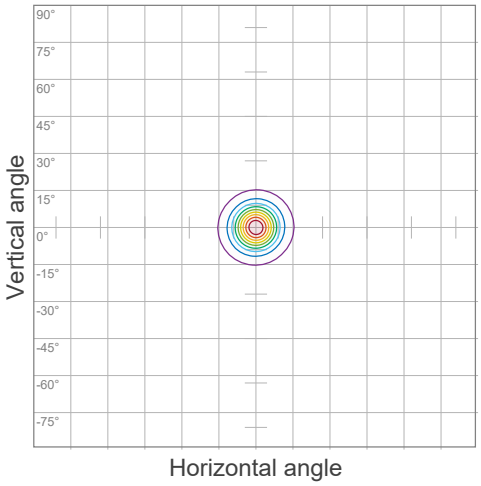


Beam Angle (50%): 16.1°
Field Angle (10%): 34°
Cutoff Angle (3%): 61.5°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

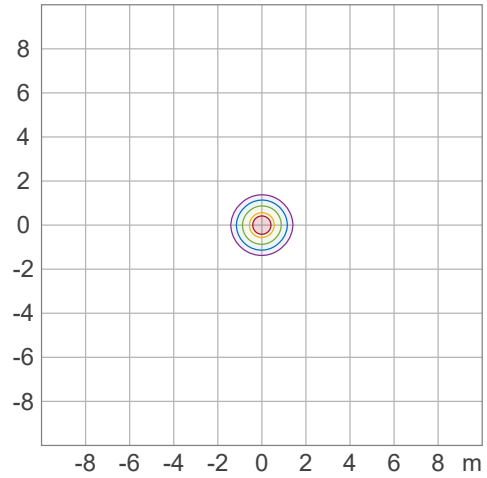
ISO Candela Diagram



90 %	3328.6 cd
80 %	2958.8 cd
70 %	2588.9 cd
60 %	2219.1 cd
50 %	1849.3 cd
40 %	1479.4 cd
30 %	1109.6 cd
20 %	739.7 cd
10 %	369.8 cd

Peak intensity: 3698.5 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	205.5 lx
30.0 %	123.3 lx
10.0 %	41.1 lx
5.0 %	20.5 lx
3.0 %	12.3 lx

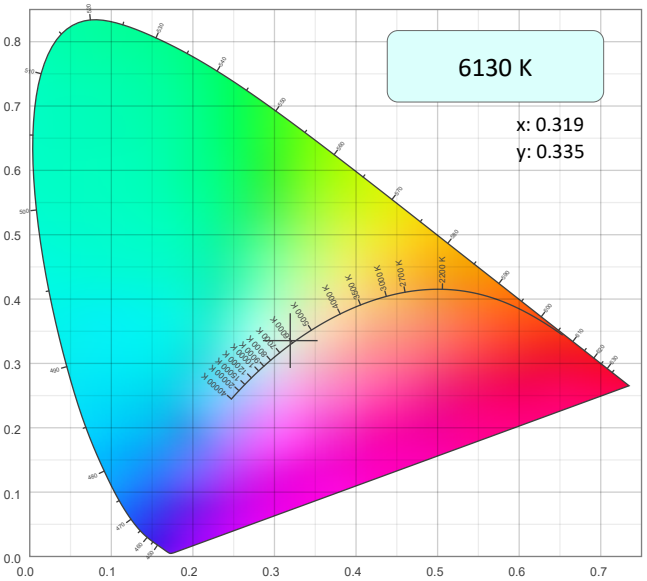
Peak illuminance: 410.9 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

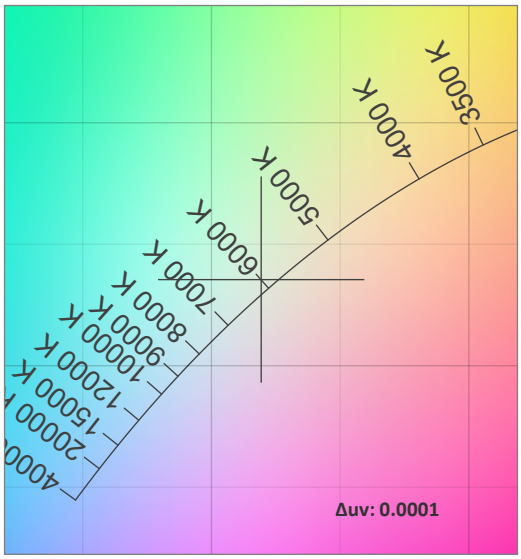
Well Batten 14: Standard Optics - Full Power-18hrs

Chromaticity

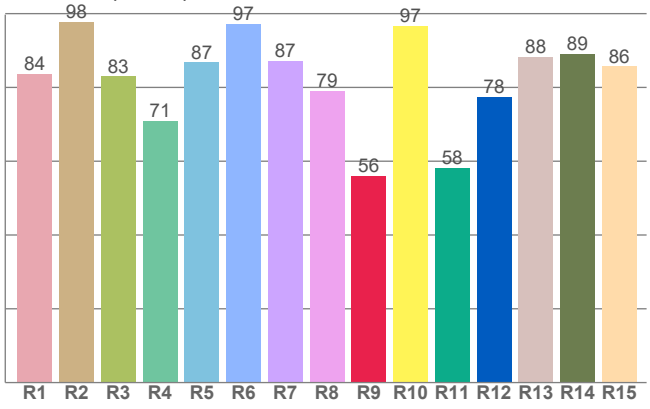
CIE 1931



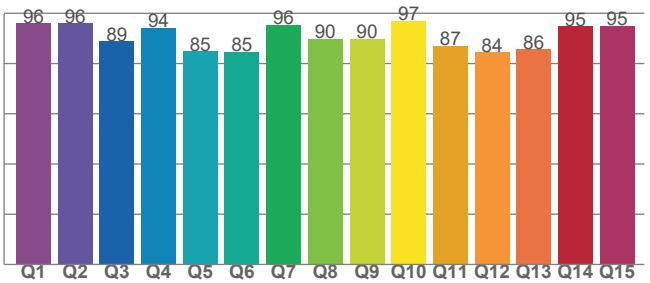
CIE 1931 - Zoom



CRI: 85.7 (R1-R8)



CQS: 89.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6130 K	0.319	0.335

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0001	0.335	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.7	56.0	89.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
72	87.8	110.5

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-18hrs

TM-30 Details

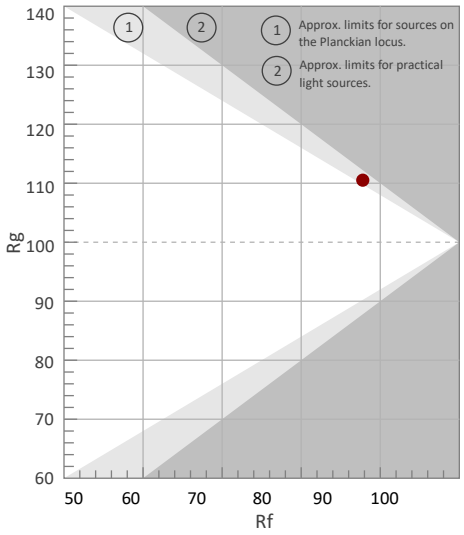
Rf 87.8

Fidelity Index (Rg)

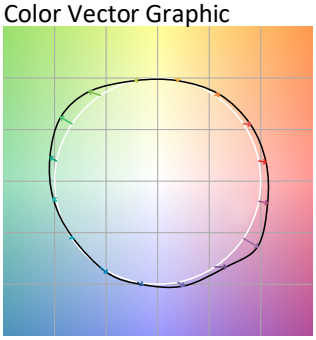
Rg 110.5

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	86	7%	-2%
2	88	5%	-4%
3	89	3%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	94	-1%	-1%
11	86	1%	9%
12	92	1%	6%
13	92	5%	5%
14	82	6%	9%
15	82	16%	1%
16	85	9%	0%

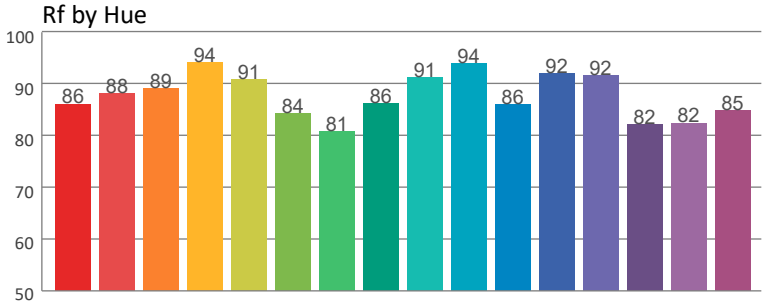


Color Vector Graphic

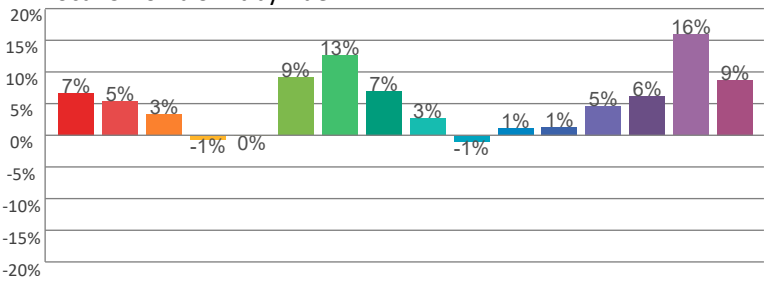


Color Distortion Graphic

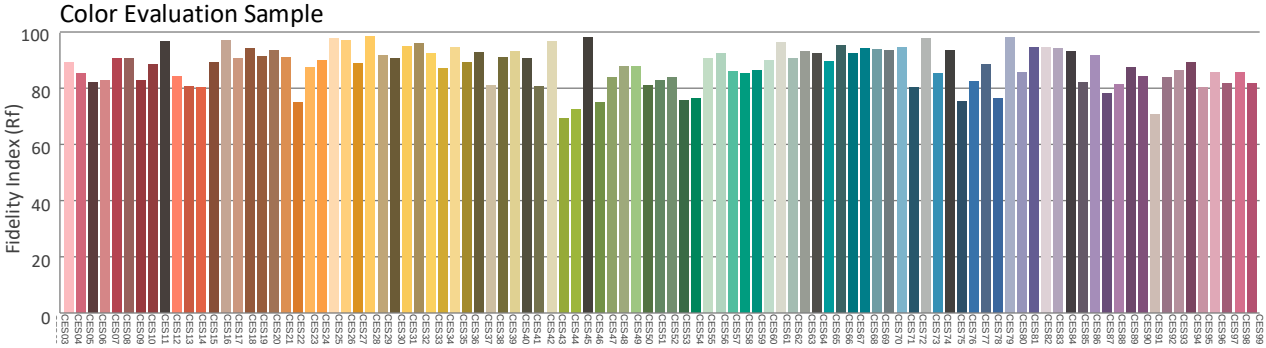
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power- AC

Report Summary

Measurements

Fixture Output: 3854 lm
Fixture Peak: 26261 cd
Fixture Efficacy: 45 lm/W
Intensity @ 5m: 1050 lux
Color Temperature: 6337 K
CRI: 84.9 CRI R9 Value: 47.2
CQS: 90.2
TLCI: 76
TM-30 Rf: 87.5
TM-30 Rg: 110.7
Beam Angle (50%): 16°
Field Angle (10%): 33.8°
Cutoff Angle (3%): 61.4°

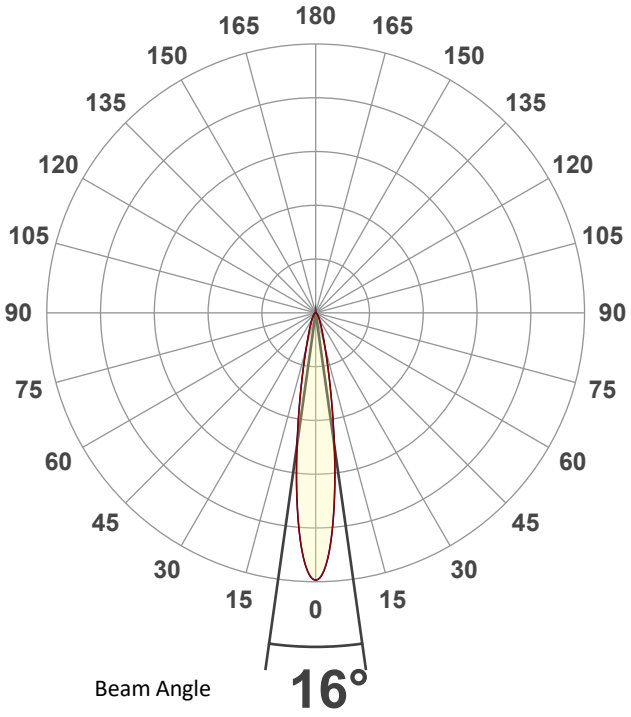
Conditions

AC Supply: 119 V, 60 Hz
Power: 86.61 W
Current: 0.728 A
Power Factor: 1.0

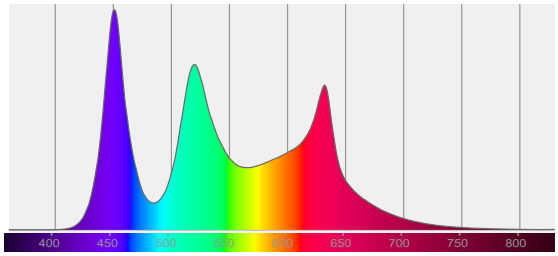
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.316
Y: 0.328

Light Quality

CRI: 84.9

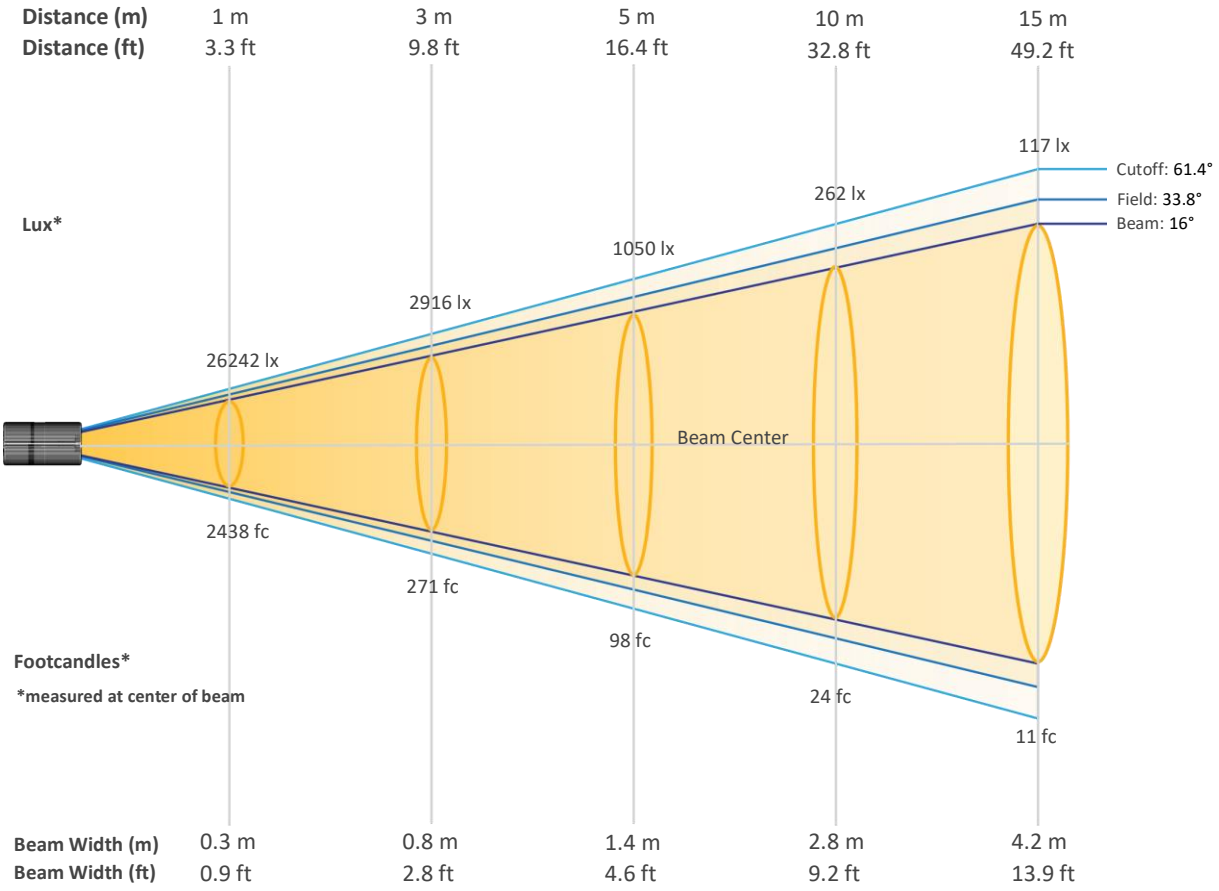
Color Temperature

6337 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power- AC

Beam Details

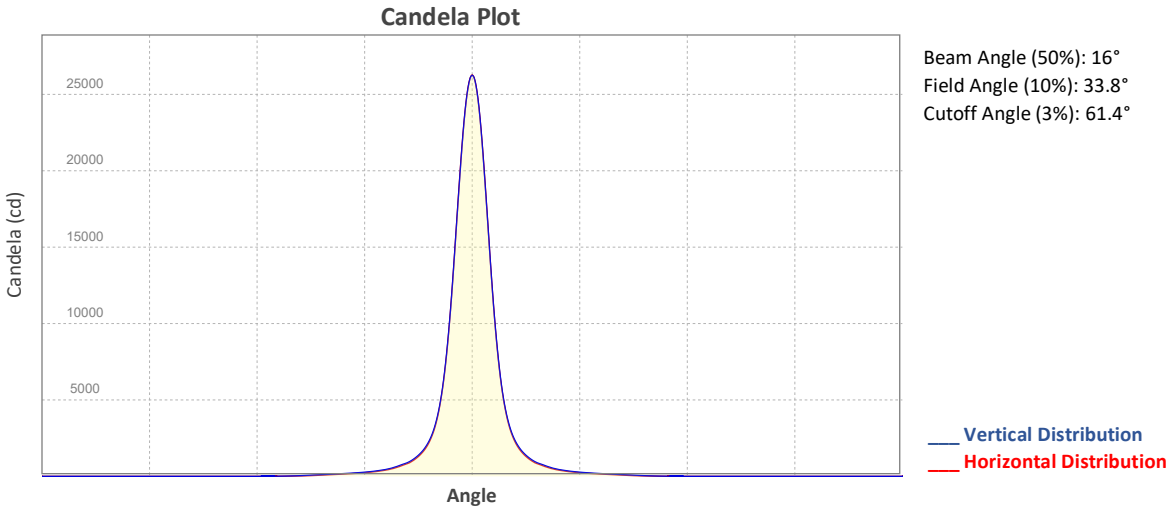


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	26242	6561	2916	1640	1050	729	536	410	324	262
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	217	182	155	134	117	103	91	81	73	66
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2438	609	271	152	98	68	50	38	30	24
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	20	17	14	12	11	10	8	8	7	6

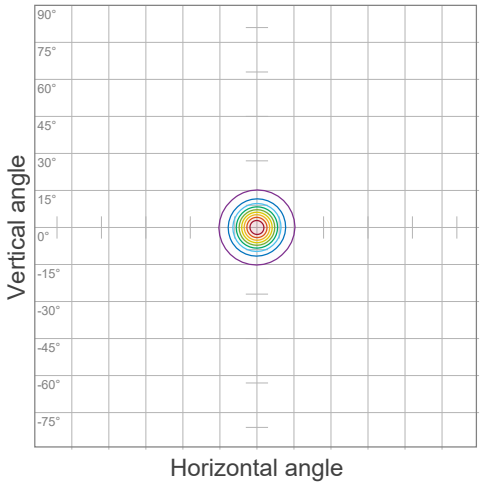
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power- AC



ISO Diagrams

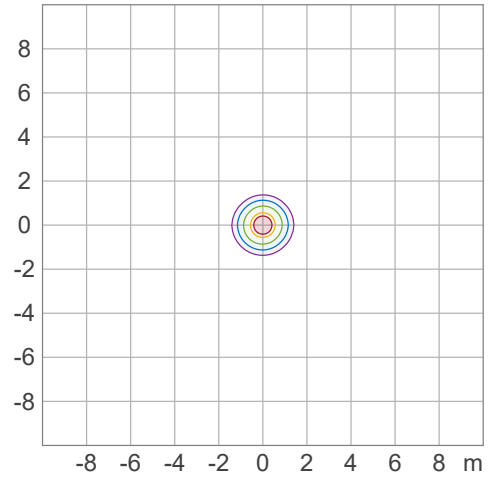
ISO Candela Diagram



90 %	23617.9 cd
80 %	20993.7 cd
70 %	18369.5 cd
60 %	15745.3 cd
50 %	13121.1 cd
40 %	10496.9 cd
30 %	7872.6 cd
20 %	5248.4 cd
10 %	2624.2 cd

Peak intensity: 26242.2 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1457.9 lx
30.0 %	874.7 lx
10.0 %	291.6 lx
5.0 %	145.8 lx
3.0 %	87.5 lx

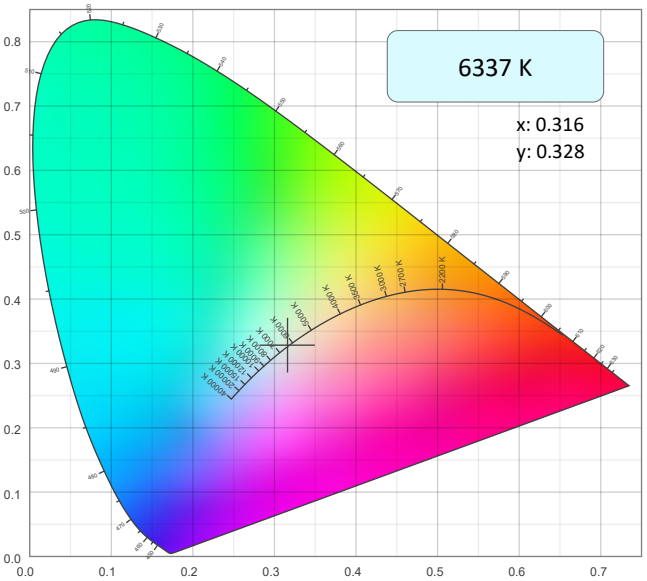
Peak illuminance: 2915.8 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

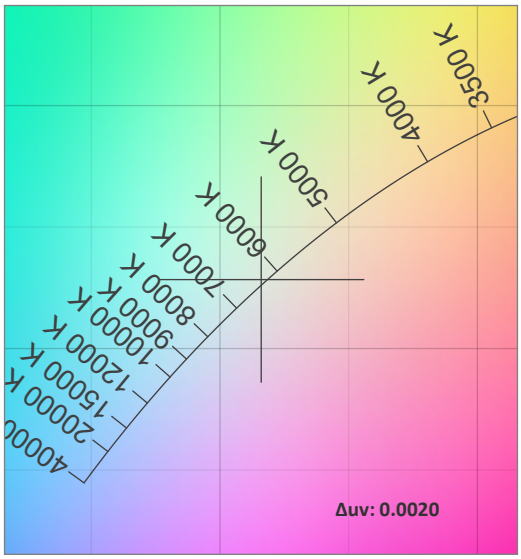
Well Batten 14: Standard Optics - Full Power- AC

Chromaticity

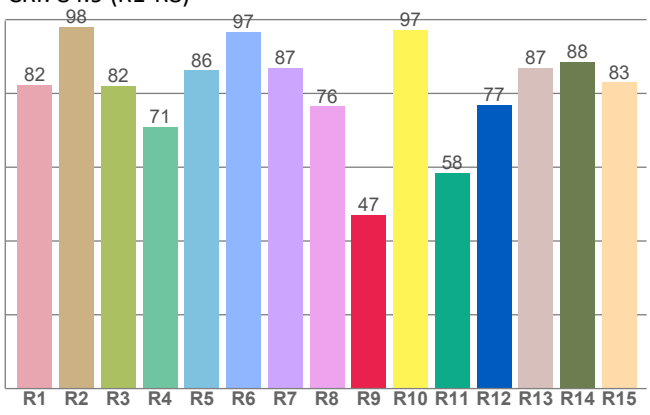
CIE 1931



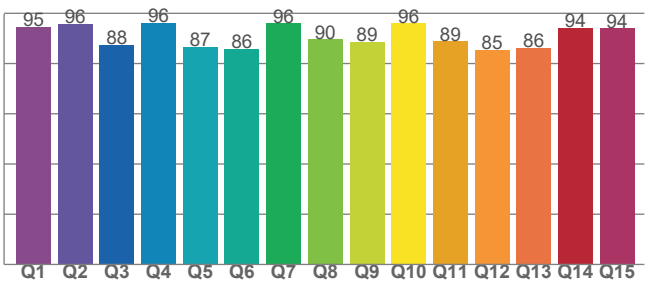
CIE 1931 - Zoom



CRI: 84.9 (R1-R8)



CQS: 90.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6337 K	0.316	0.328

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0020	0.328	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.9	47.2	90.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
76	87.5	110.7

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power- AC

TM-30 Details

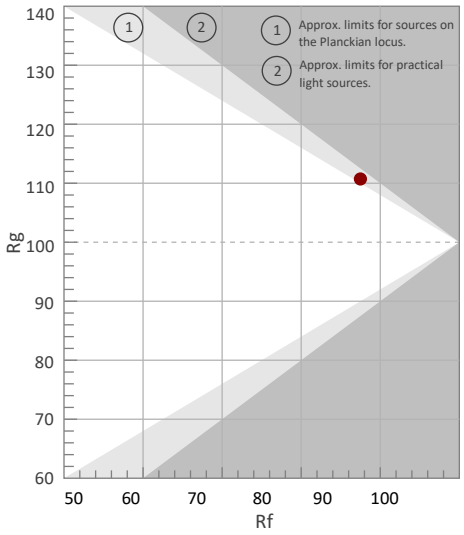
Rf 87.5

Fidelity Index (Rg)

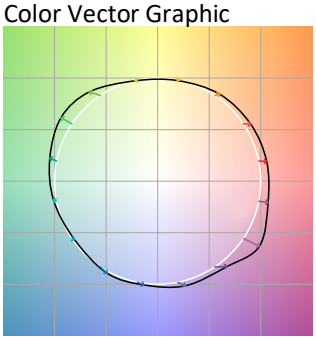
Rg 110.7

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	90	0%	2%
6	84	9%	7%
7	82	12%	1%
8	87	7%	-1%
9	92	3%	-2%
10	92	-1%	2%
11	86	1%	9%
12	91	1%	6%
13	90	5%	7%
14	81	6%	10%
15	81	17%	2%
16	84	9%	1%

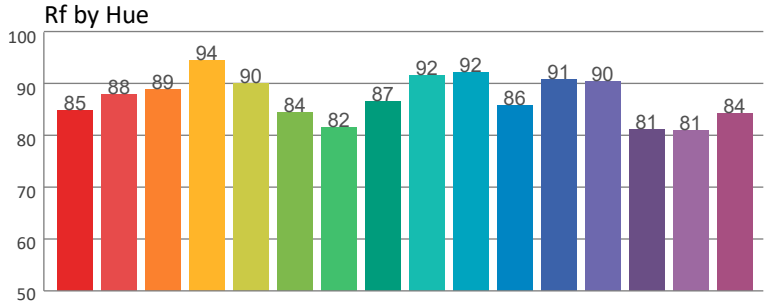


Color Vector Graphic

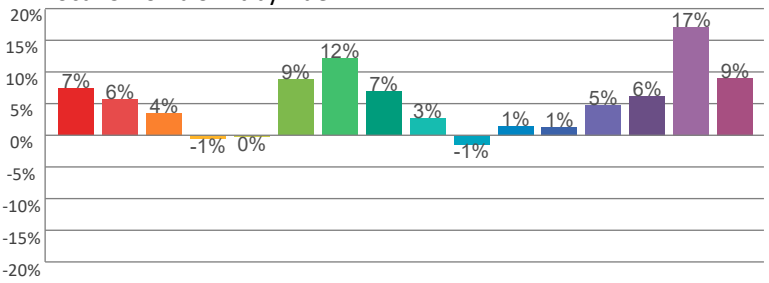


Color Distortion Graphic

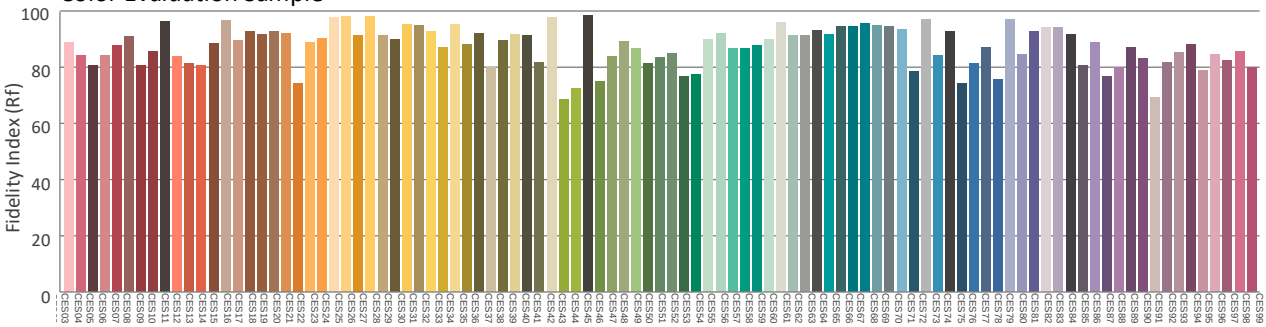
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-Off

Report Summary

Measurements

Fixture Output: 2210 lm
Fixture Peak: 15020 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 601 lux
Color Temperature: 6273 K
CRI: 85.0 CRI R9 Value: 48.6
CQS: 90.0
TLCI: 75
TM-30 Rf: 87.5
TM-30 Rg: 110.7
Beam Angle (50%): 16.1°
Field Angle (10%): 33.9°
Cutoff Angle (3%): 61.3°

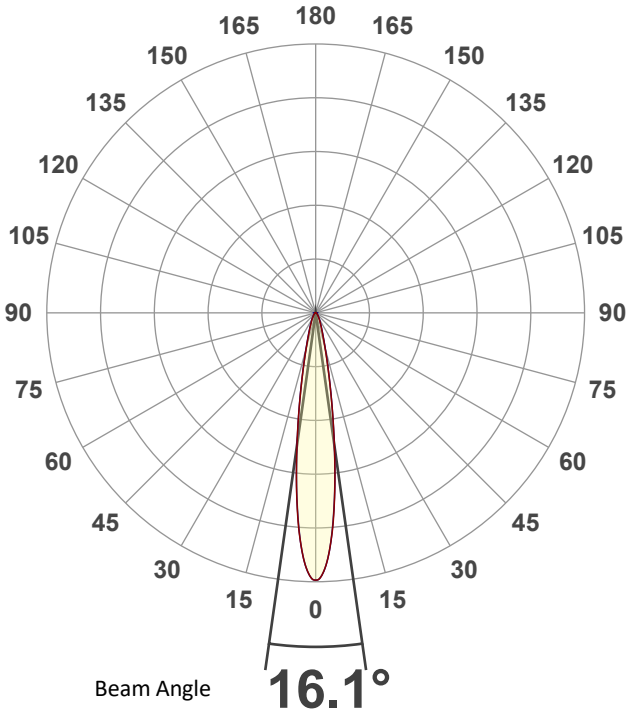
Conditions

AC Supply: 120 V, 60.1 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

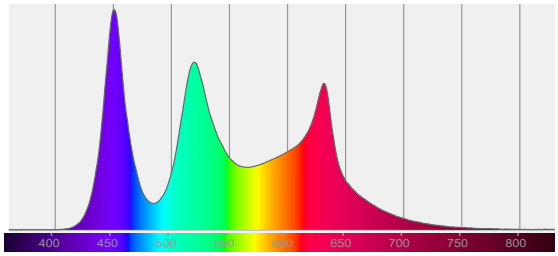
Overall Measurement

Angular Beam Distribution



Beam Angle 16.1°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.317
Y: 0.330

Light Quality

CRI: 85.0

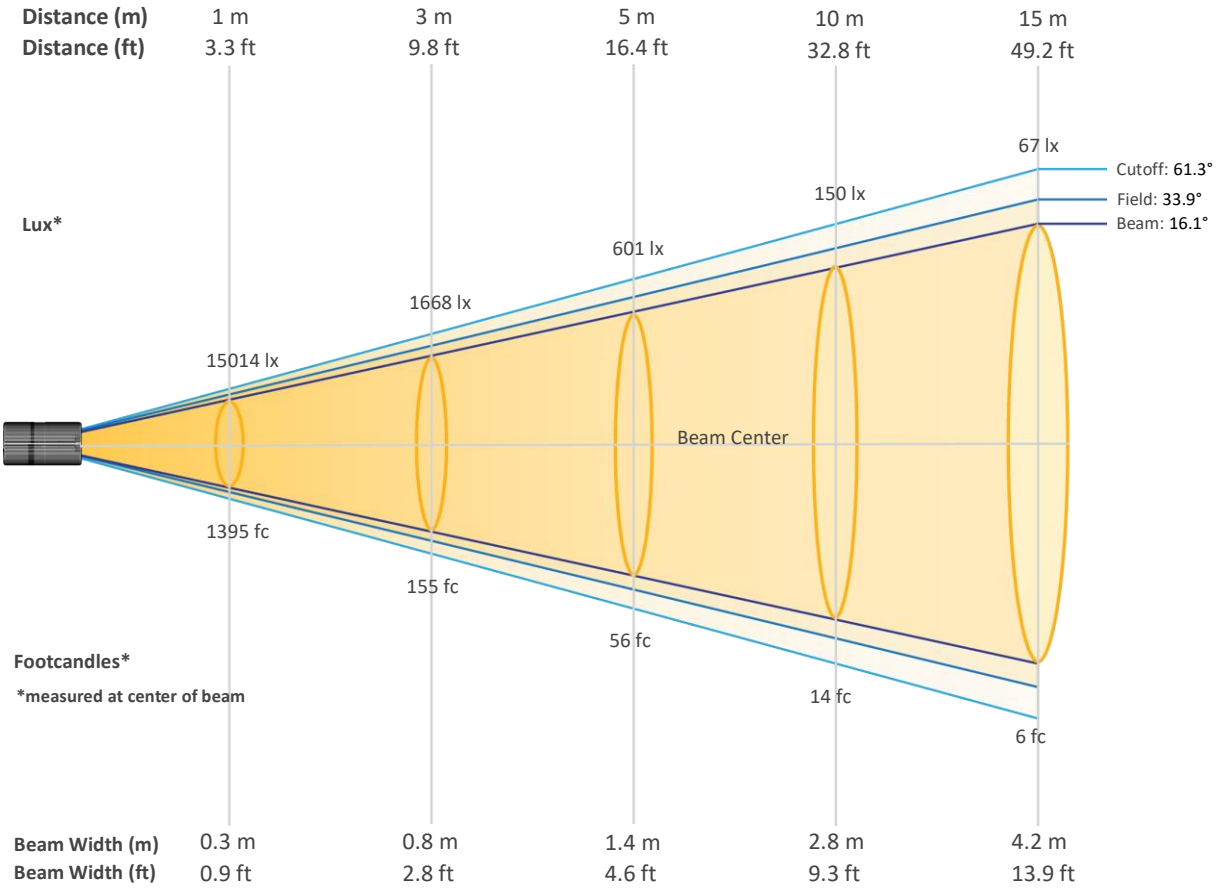
Color Temperature

6273 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-Off

Beam Details

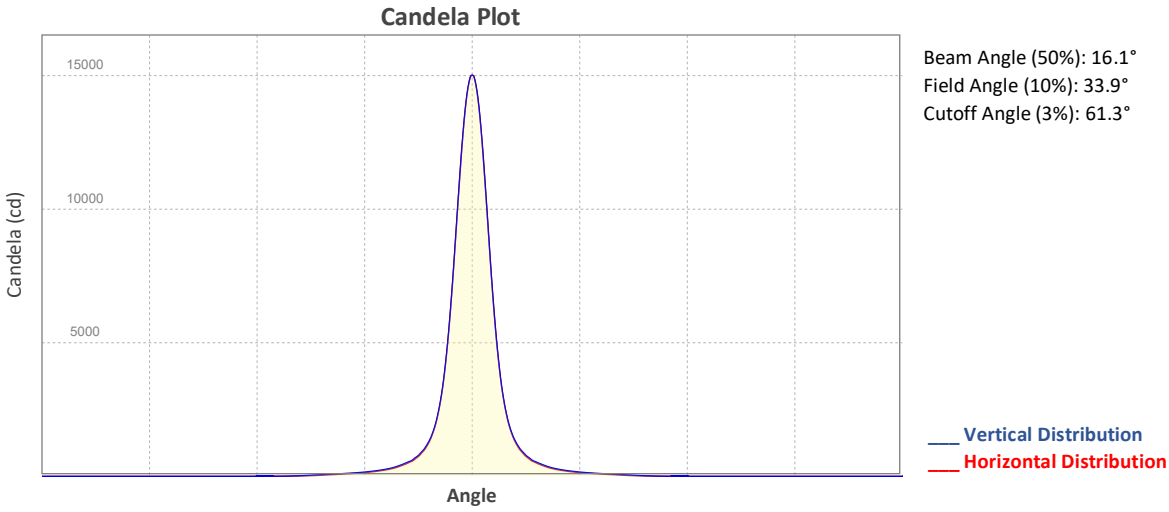


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15014	3754	1668	938	601	417	306	235	185	150
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	124	104	89	77	67	59	52	46	42	38
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1395	349	155	87	56	39	28	22	17	14
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	12	10	8	7	6	5	5	4	4	3

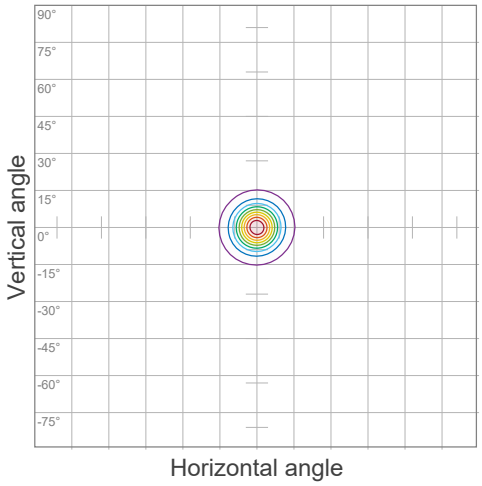
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-Off



ISO Diagrams

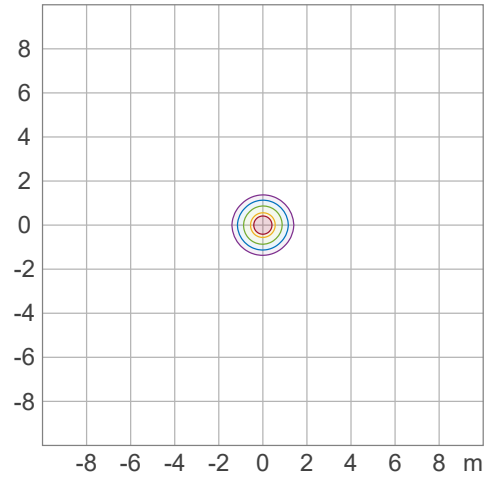
ISO Candela Diagram



90 %	13513.0 cd
80 %	12011.5 cd
70 %	10510.1 cd
60 %	9008.7 cd
50 %	7507.2 cd
40 %	6005.8 cd
30 %	4504.3 cd
20 %	3002.9 cd
10 %	1501.4 cd

Peak intensity: 15014.4 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	834.1 lx
30.0 %	500.5 lx
10.0 %	166.8 lx
5.0 %	83.4 lx
3.0 %	50.0 lx

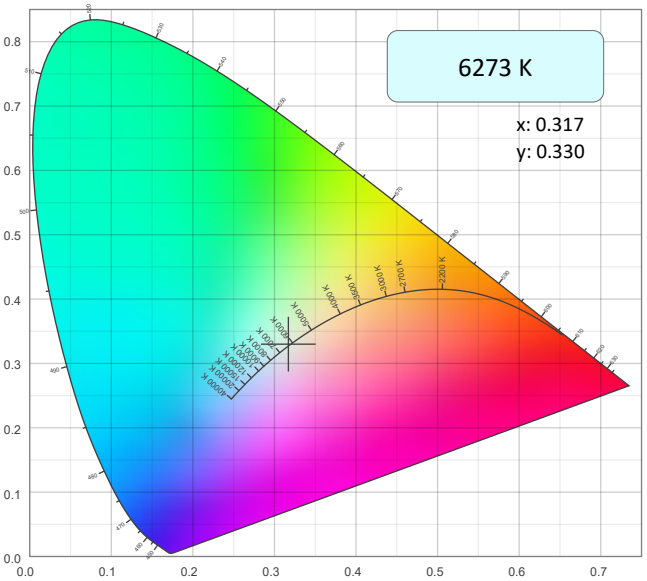
Peak illuminance: 1668.3 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

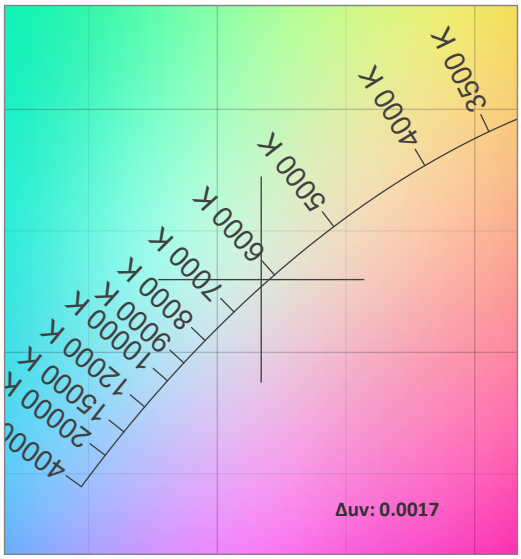
Well Batten 14: Standard Optics - Full Power-Off

Chromaticity

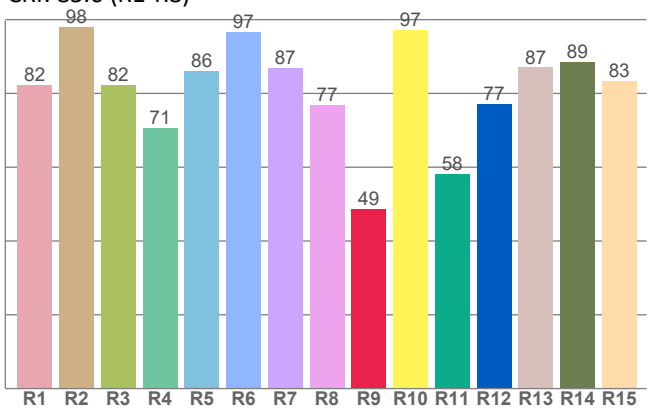
CIE 1931



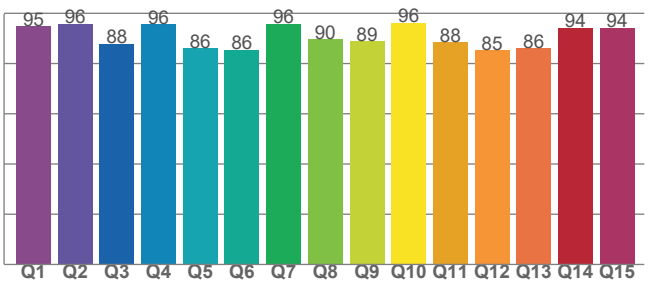
CIE 1931 - Zoom



CRI: 85.0 (R1-R8)



CQS: 90.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6273 K	0.317	0.330

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0017	0.330	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.0	48.6	90.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
75	87.5	110.7

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Full Power-Off

TM-30 Details

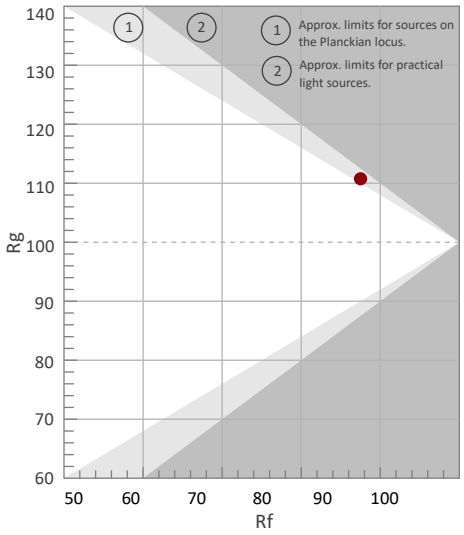
Rf 87.5

Fidelity Index (Rg)

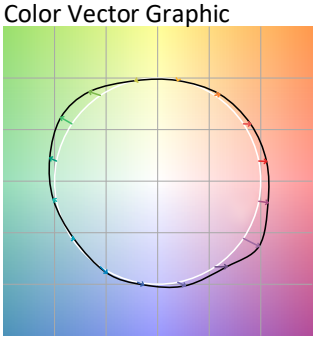
Rg 110.7

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	90	0%	2%
6	84	9%	7%
7	81	12%	1%
8	86	7%	-2%
9	91	3%	-2%
10	92	-1%	2%
11	86	1%	9%
12	91	1%	6%
13	91	5%	6%
14	81	6%	10%
15	81	17%	2%
16	84	9%	0%

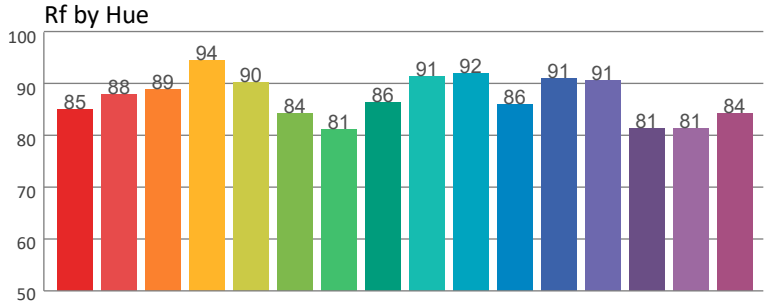


Color Vector Graphic

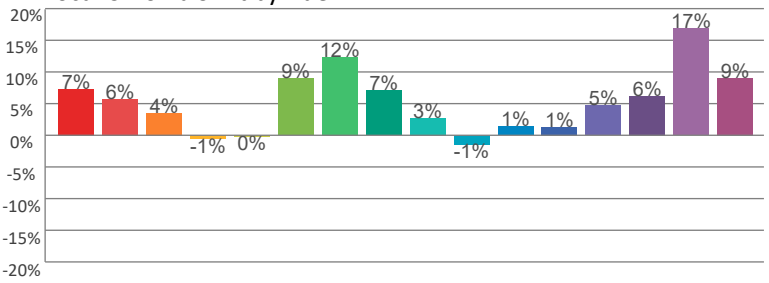


Color Distortion Graphic

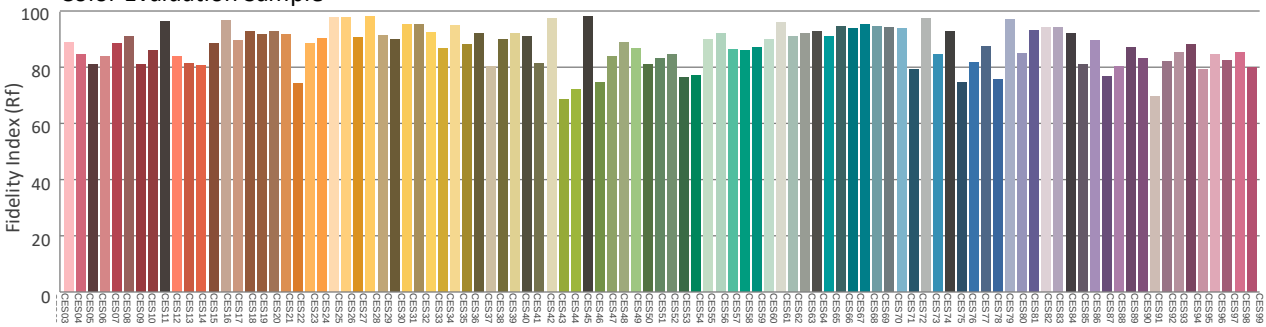
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-5hrs

Report Summary

Measurements

Fixture Output: 1718 lm
Fixture Peak: 10535 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 421 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 17.6°
Field Angle (10%): 35.8°
Cutoff Angle (3%): 63.2°

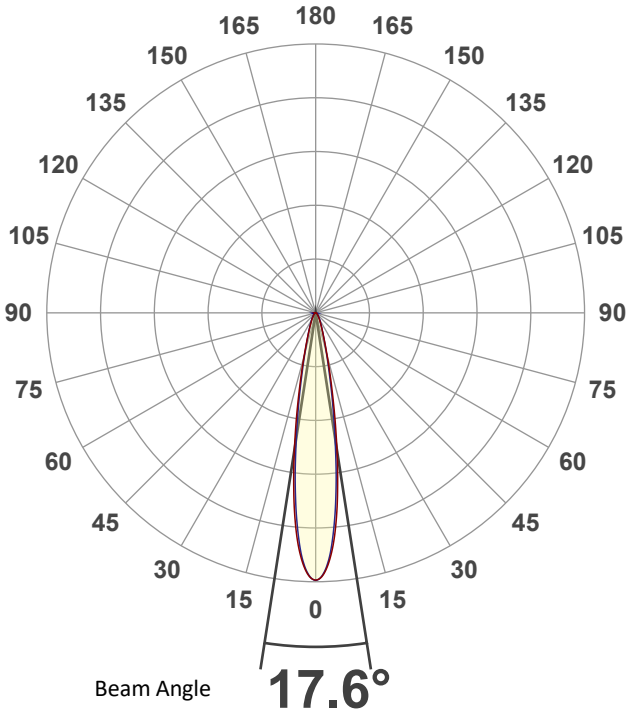
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

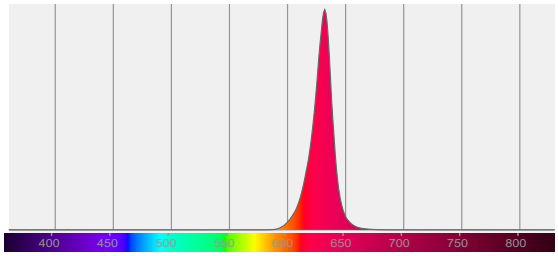
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.698
Y: 0.302

Light Quality

CRI: 0.0

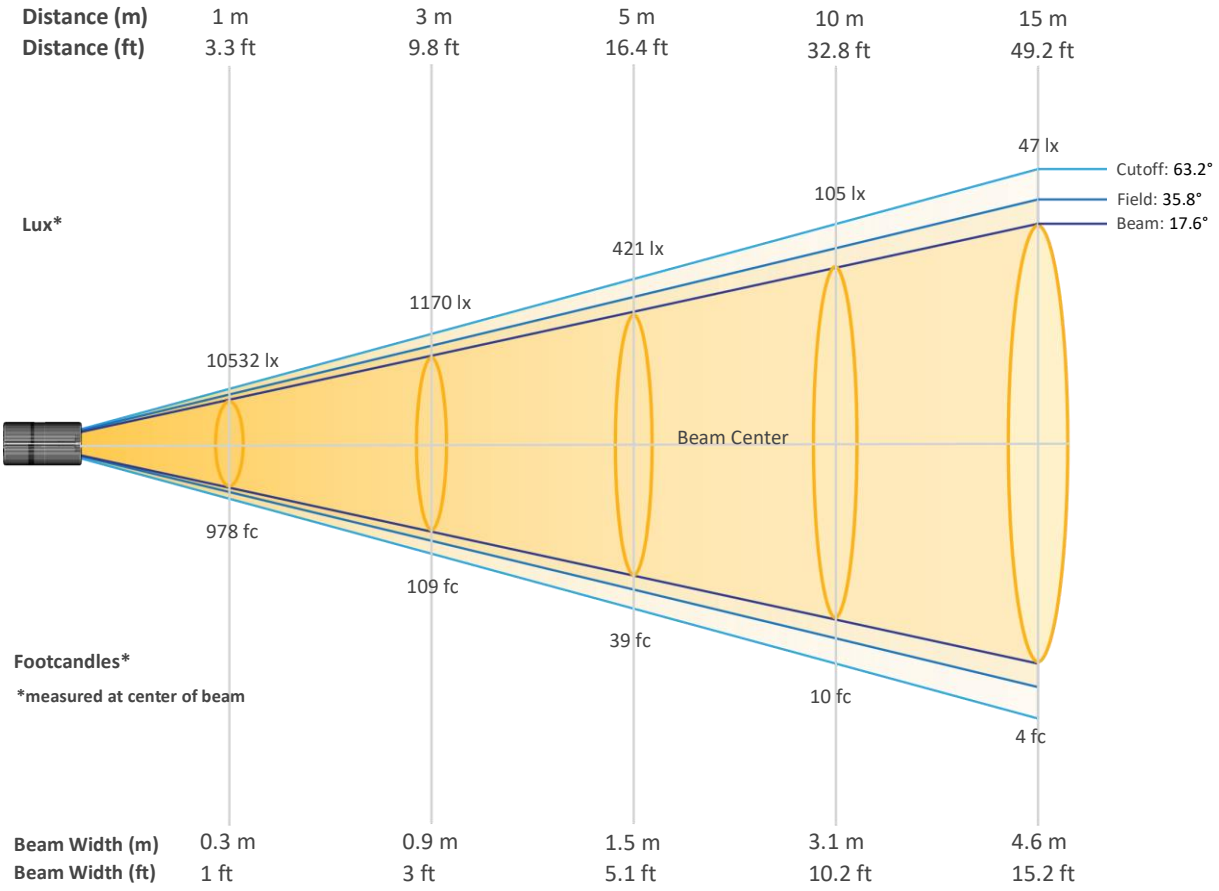
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-5hrs

Beam Details

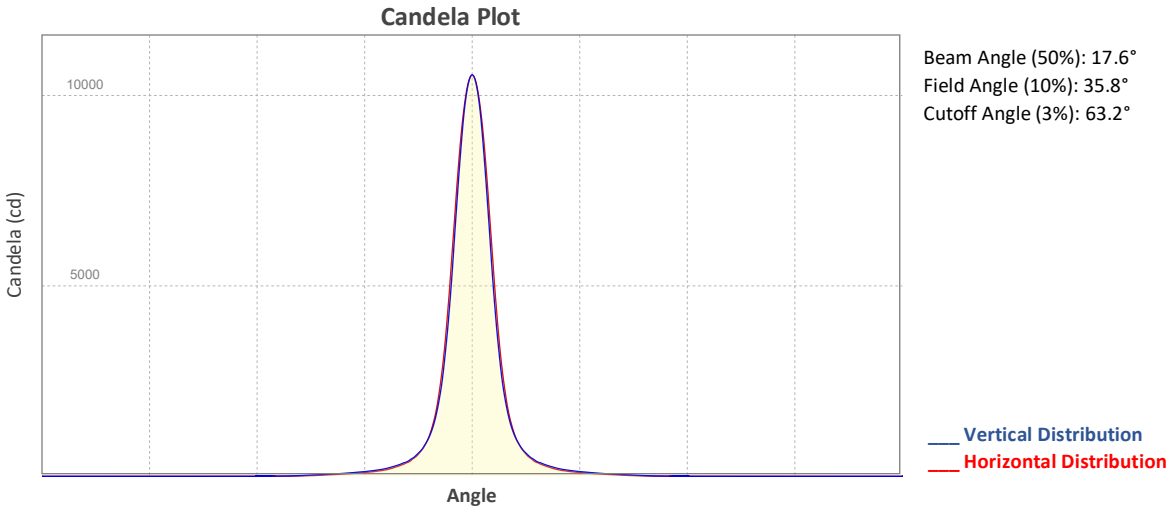


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	10532	2633	1170	658	421	293	215	165	130	105
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	87	73	62	54	47	41	36	33	29	26
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	978	245	109	61	39	27	20	15	12	10
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	8	7	6	5	4	4	3	3	3	2

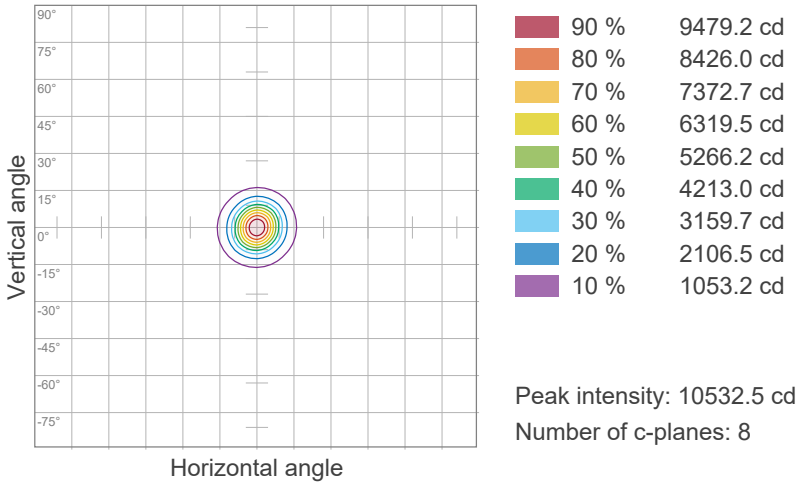
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-5hrs



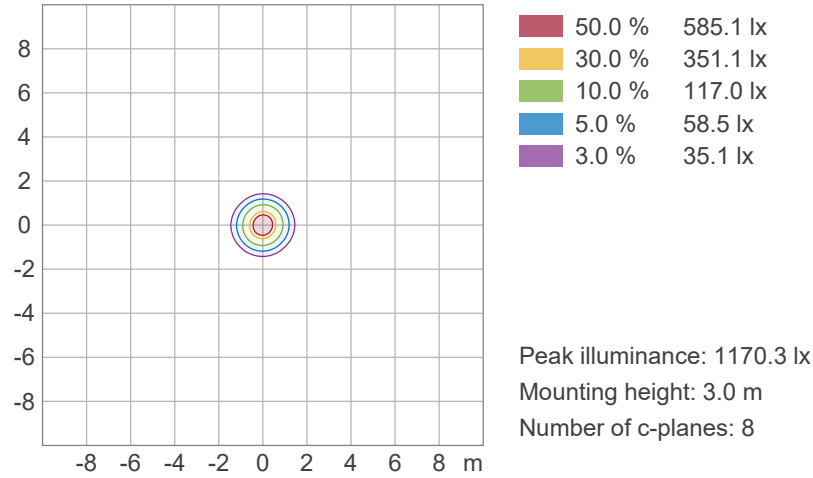
ISO Diagrams

ISO Candela Diagram



Peak intensity: 10532.5 cd
Number of c-planes: 8

ISO Lux Diagram



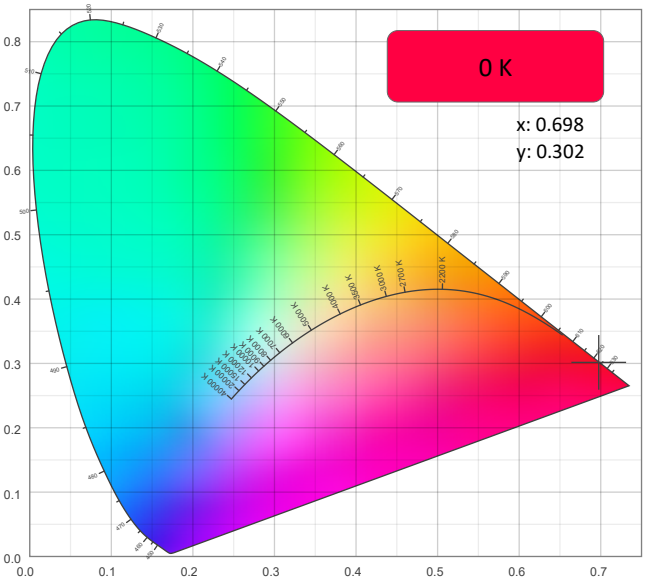
Peak illuminance: 1170.3 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

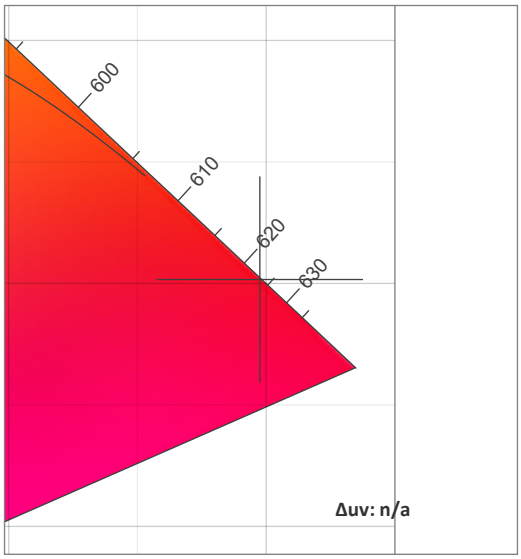
Well Batten 14: Standard Optics - Red-5hrs

Chromaticity

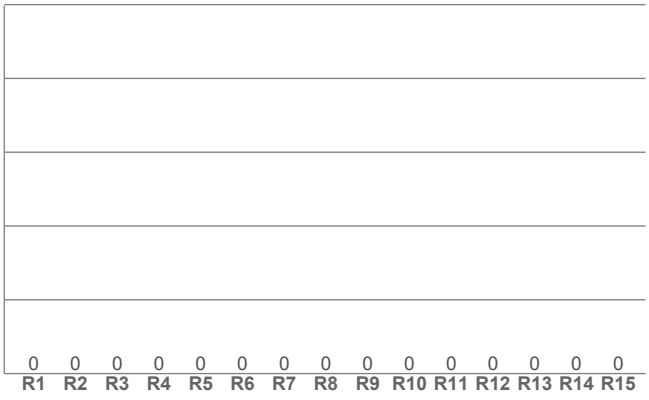
CIE 1931



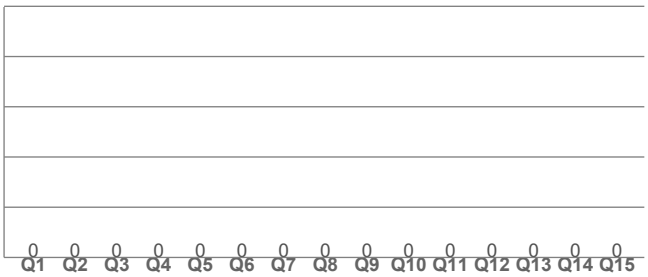
CIE 1931 - Zoom



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	0.698	0.302

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.302	0.534

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-5hrs

TM-30 Details

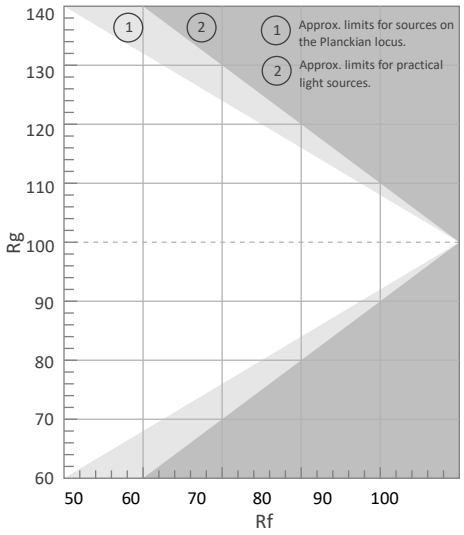
Rf 0.0

Fidelity Index (Rg)

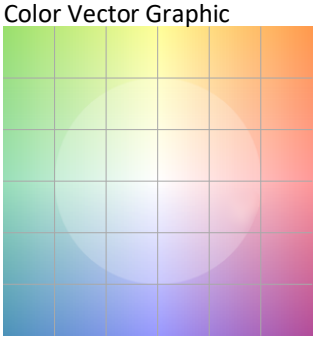
Rg 0.0

Gammut Index (Rg)

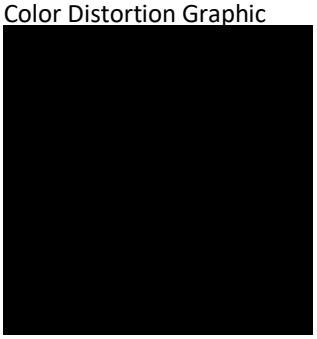
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



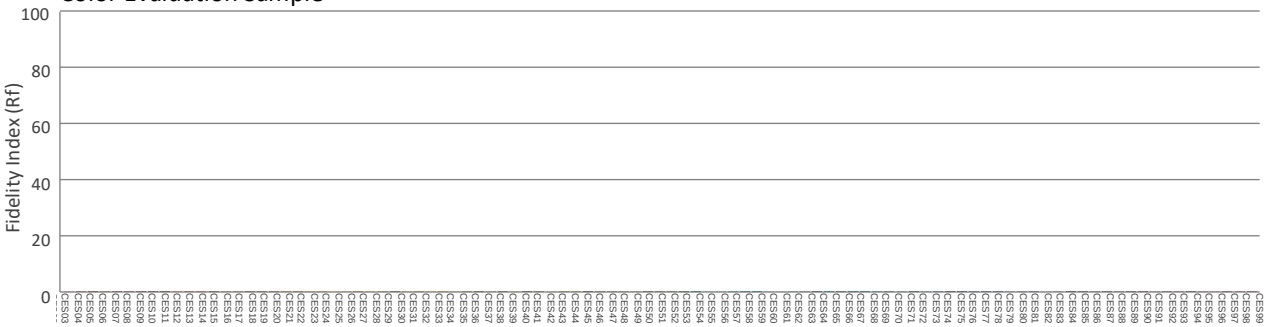
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-8hrs

Report Summary

Measurements

Fixture Output: 1268 lm
Fixture Peak: 7723 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 309 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 17.6°
Field Angle (10%): 35.8°
Cutoff Angle (3%): 63.4°

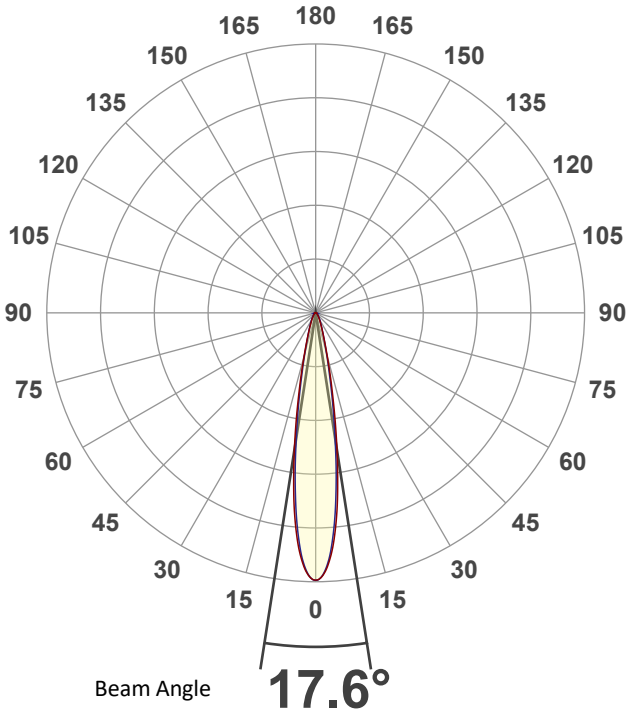
Conditions

AC Supply: 121 V, 60 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

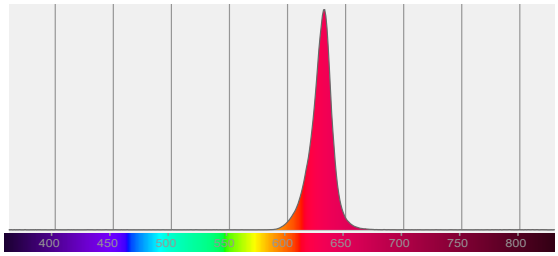
Overall Measurement

Angular Beam Distribution



Beam Angle 17.6°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.696
Y: 0.302

Light Quality

CRI: 0.0

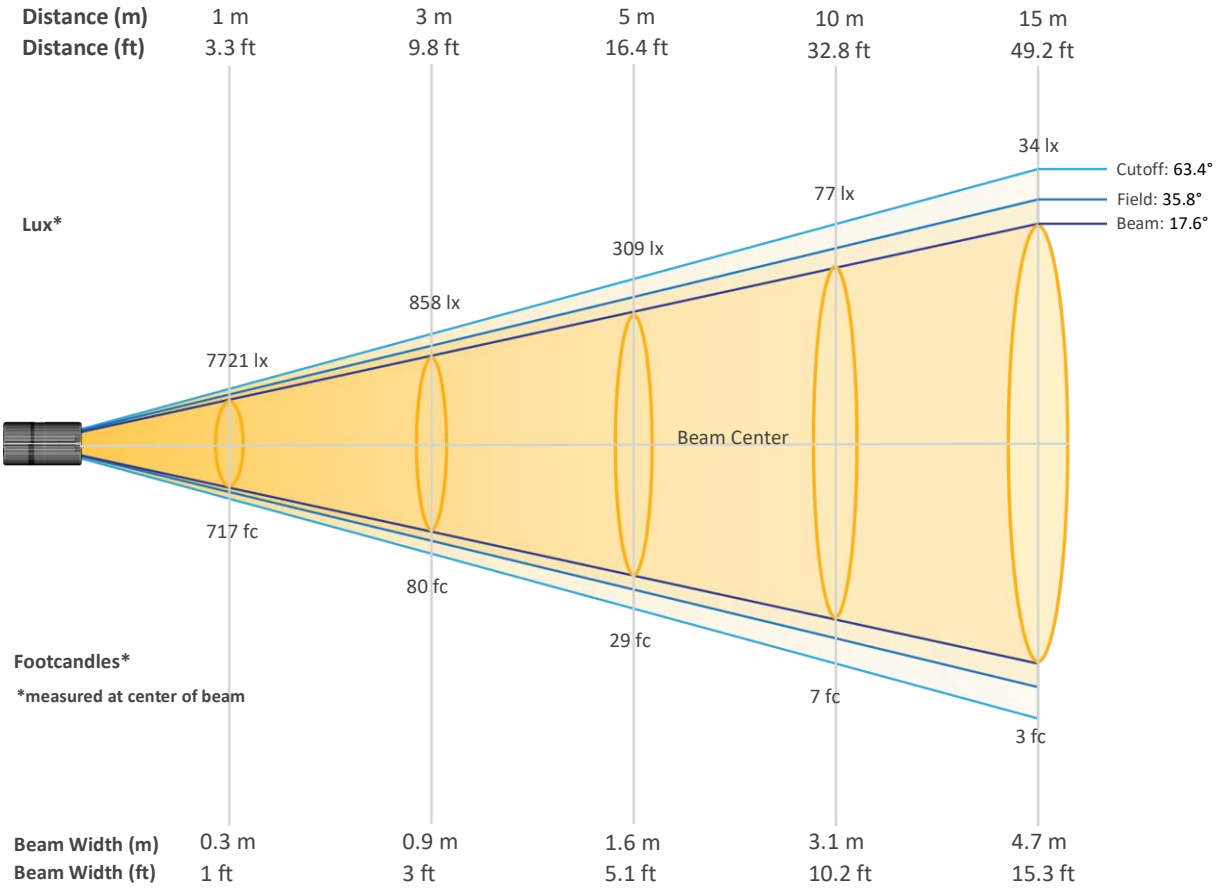
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-8hrs

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	7721	1930	858	483	309	214	158	121	95	77
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	64	54	46	39	34	30	27	24	21	19
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	717	179	80	45	29	20	15	11	9	7
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	6	5	4	4	3	3	2	2	2	2

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-8hrs

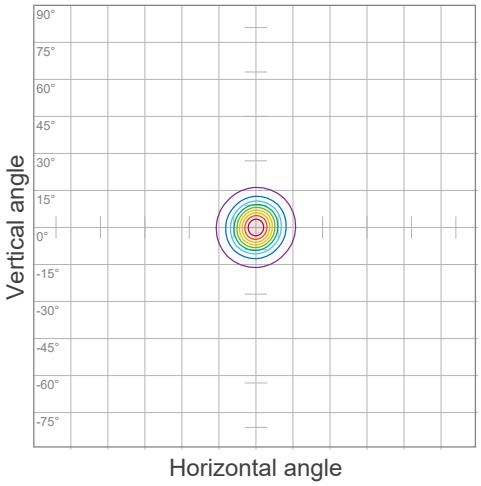
Candela Plot

Beam Angle (50%): 17.6°
Field Angle (10%): 35.8°
Cutoff Angle (3%): 63.4°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

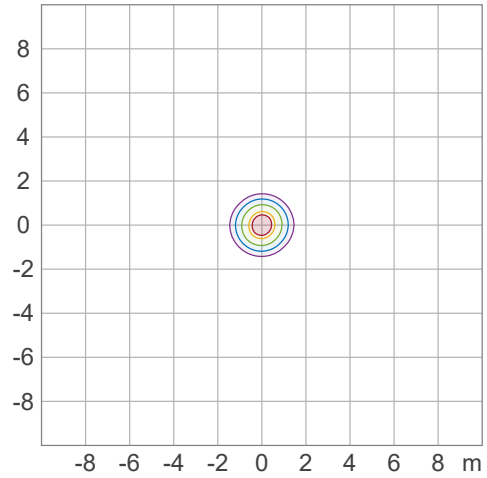
ISO Candela Diagram



90 %	6948.8 cd
80 %	6176.7 cd
70 %	5404.6 cd
60 %	4632.6 cd
50 %	3860.5 cd
40 %	3088.4 cd
30 %	2316.3 cd
20 %	1544.2 cd
10 %	772.1 cd

Peak intensity: 7720.9 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	428.9 lx
30.0 %	257.4 lx
10.0 %	85.8 lx
5.0 %	42.9 lx
3.0 %	25.7 lx

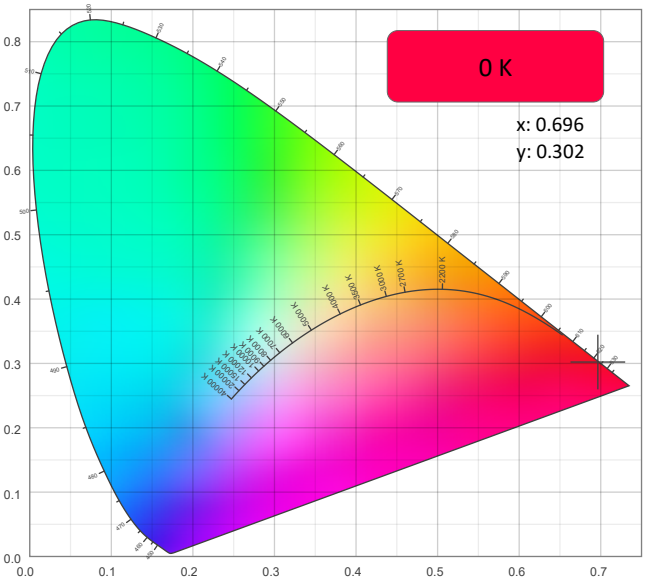
Peak illuminance: 857.9 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

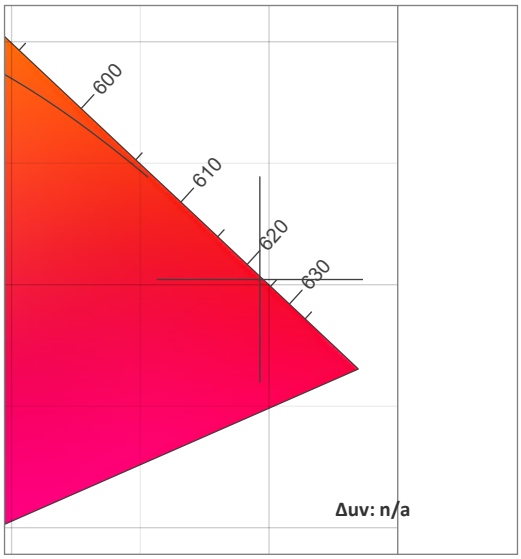
Well Batten 14: Standard Optics - Red-8hrs

Chromaticity

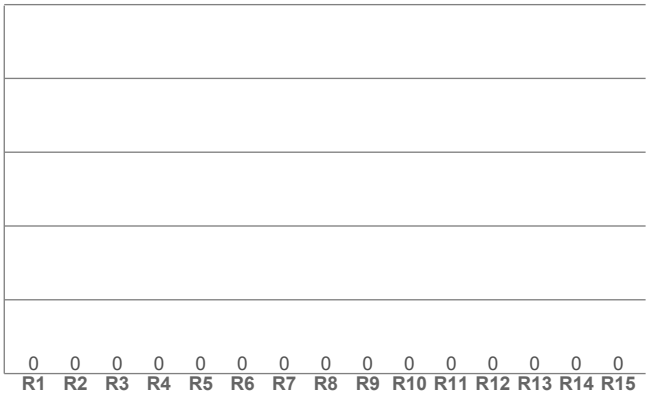
CIE 1931



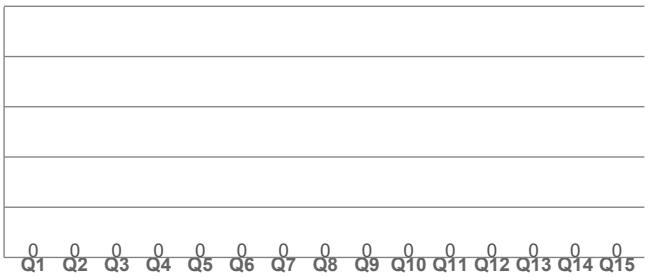
CIE 1931 - Zoom



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	0.696	0.302

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.302	0.532

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-8hrs

TM-30 Details

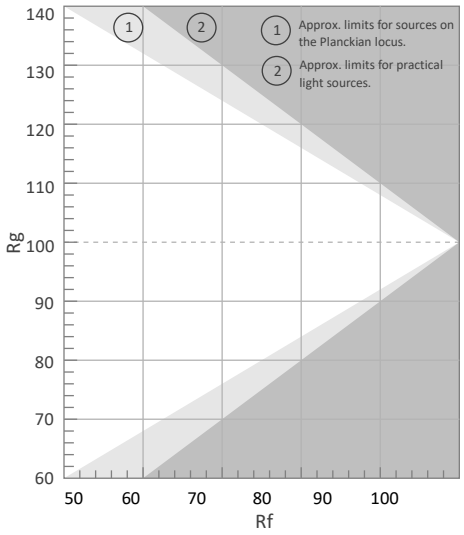
Rf 0.0

Fidelity Index (Rg)

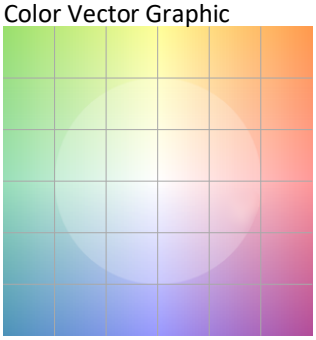
Rg 0.0

Gammut Index (Rg)

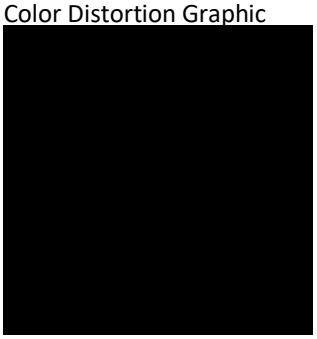
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



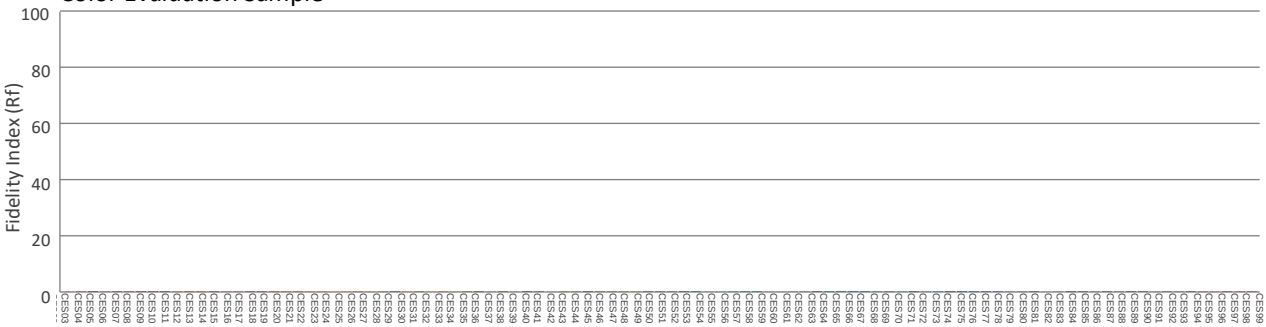
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-12hrs

Report Summary

Measurements

Fixture Output: 822 lm
Fixture Peak: 4929 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 197 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 17.7°
Field Angle (10%): 35.9°
Cutoff Angle (3%): 63.7°

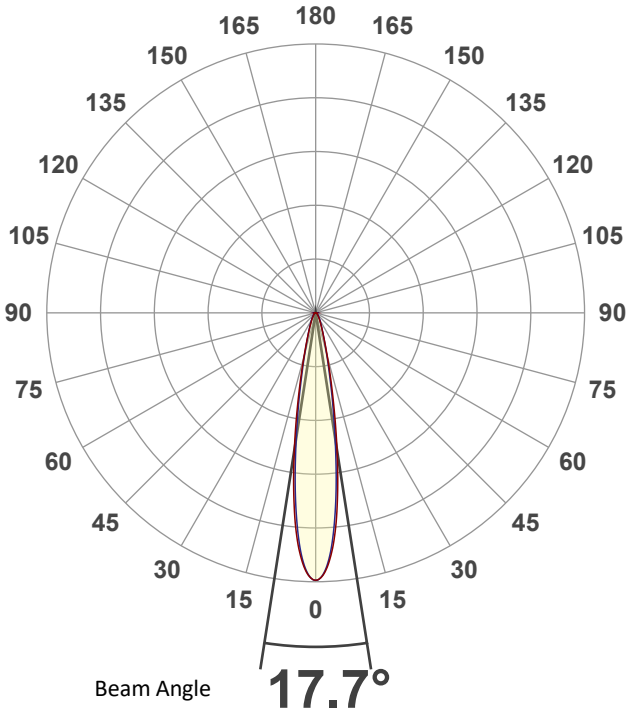
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

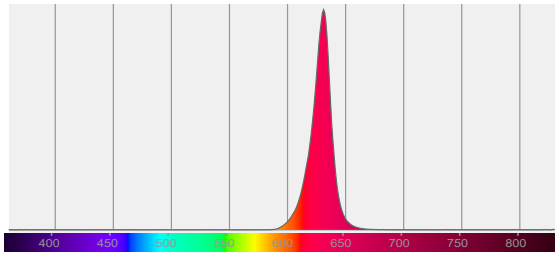
Overall Measurement

Angular Beam Distribution



Beam Angle 17.7°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.695
Y: 0.303

Light Quality

CRI: 0.0

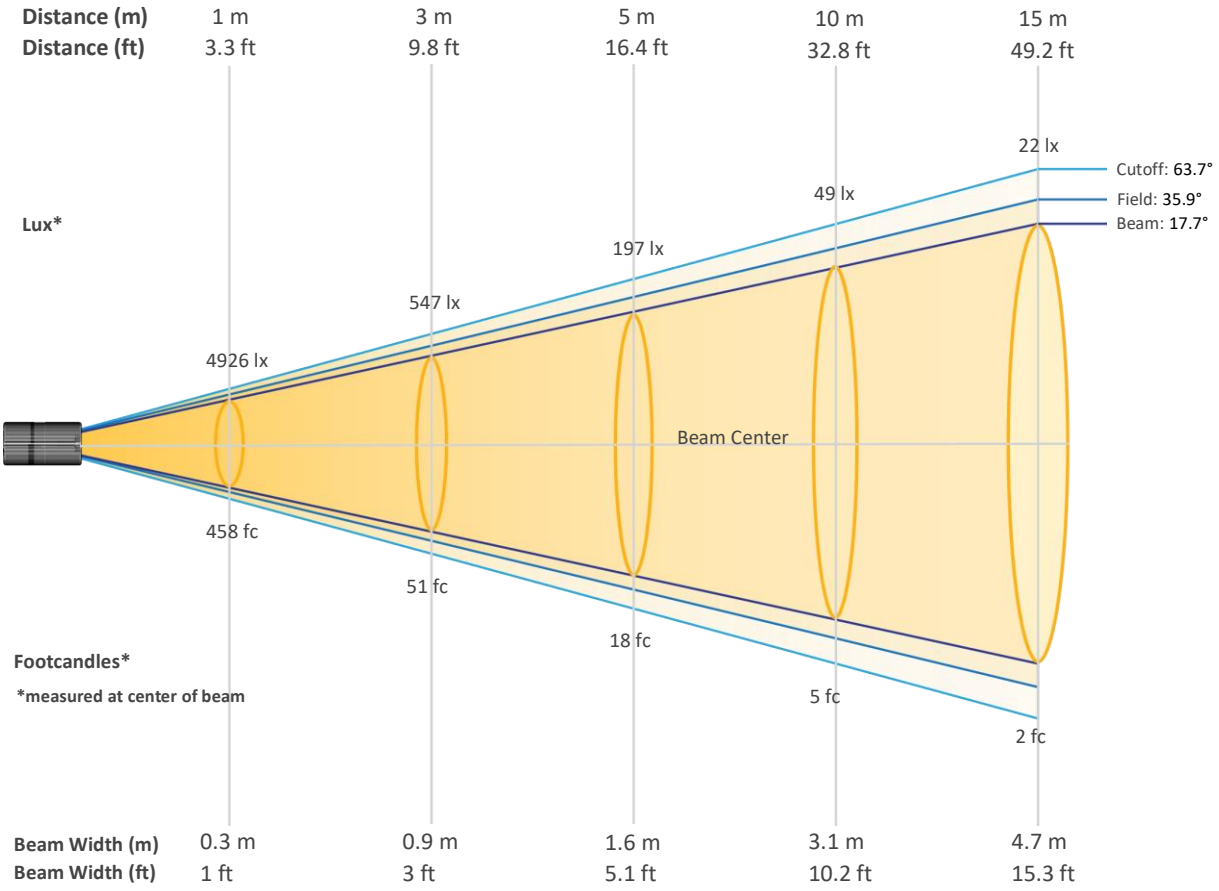
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-12hrs

Beam Details

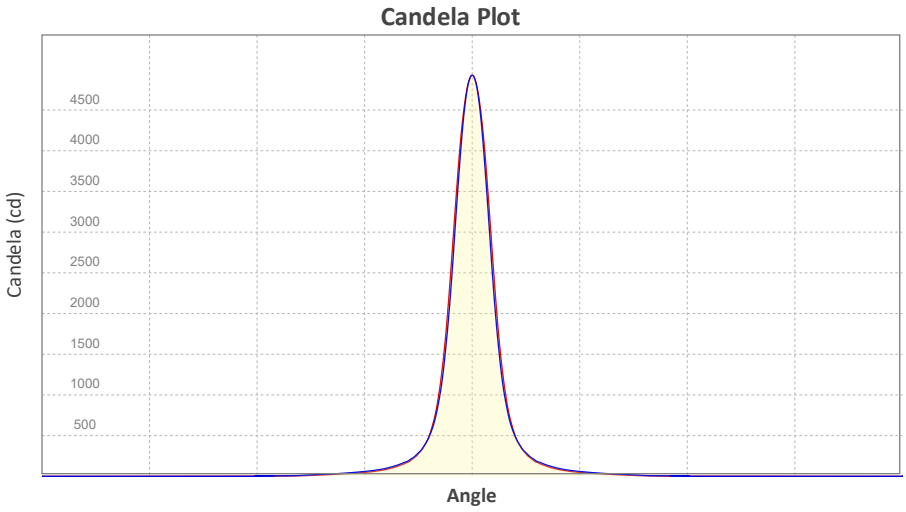


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	4926	1231	547	308	197	137	101	77	61	49
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	41	34	29	25	22	19	17	15	14	12
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	458	114	51	29	18	13	9	7	6	5
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	4	3	3	2	2	2	2	1	1	1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-12hrs

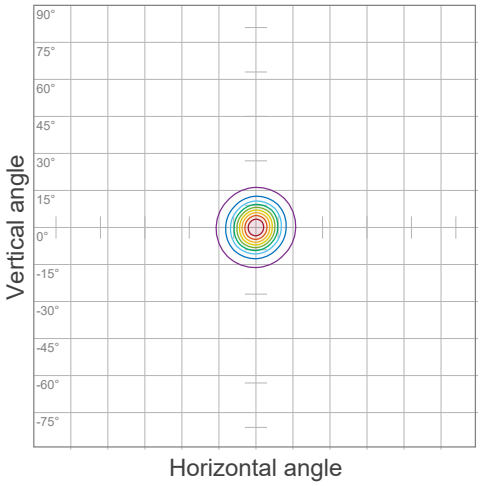


Beam Angle (50%): 17.7°
Field Angle (10%): 35.9°
Cutoff Angle (3%): 63.7°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

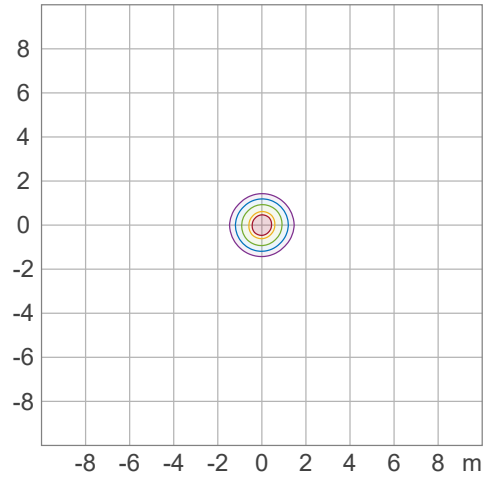
ISO Candela Diagram



90 %	4433.3 cd
80 %	3940.7 cd
70 %	3448.1 cd
60 %	2955.6 cd
50 %	2463.0 cd
40 %	1970.4 cd
30 %	1477.8 cd
20 %	985.2 cd
10 %	492.6 cd

Peak intensity: 4925.9 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	273.7 lx
30.0 %	164.2 lx
10.0 %	54.7 lx
5.0 %	27.4 lx
3.0 %	16.4 lx

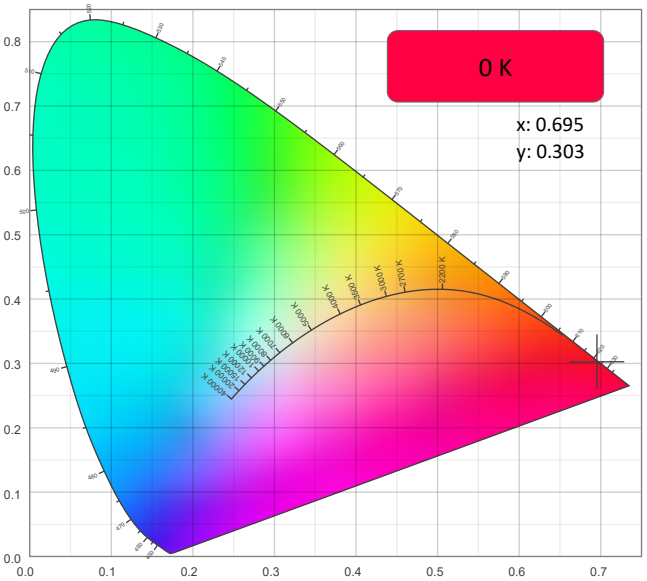
Peak illuminance: 547.3 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

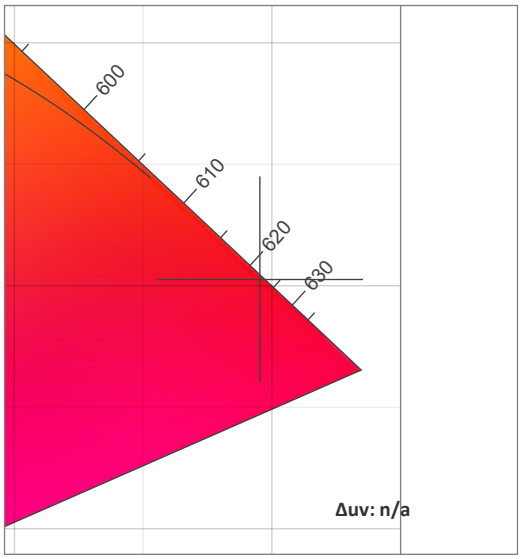
Well Batten 14: Standard Optics - Red-12hrs

Chromaticity

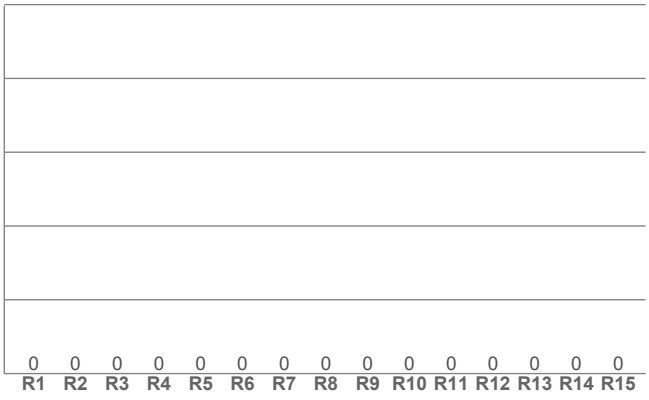
CIE 1931



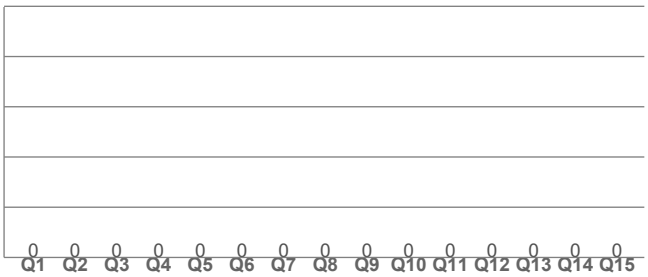
CIE 1931 - Zoom



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	0.695	0.303

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.303	0.531

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-12hrs

TM-30 Details

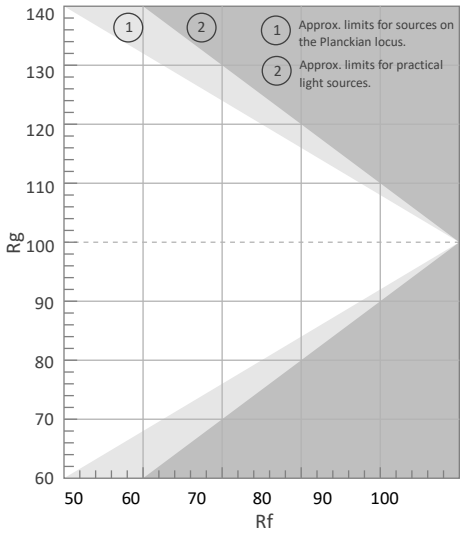
Rf 0.0

Fidelity Index (Rg)

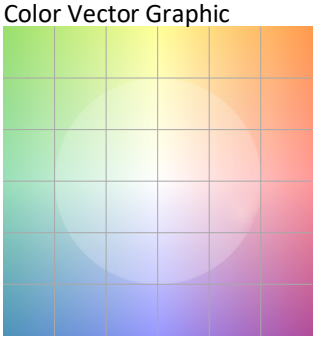
Rg 0.0

Gammut Index (Rg)

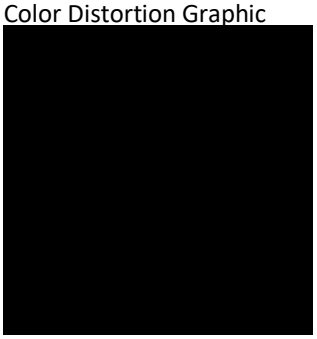
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic

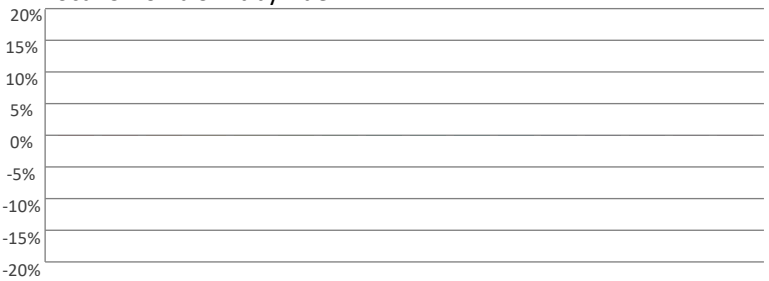


Color Distortion Graphic

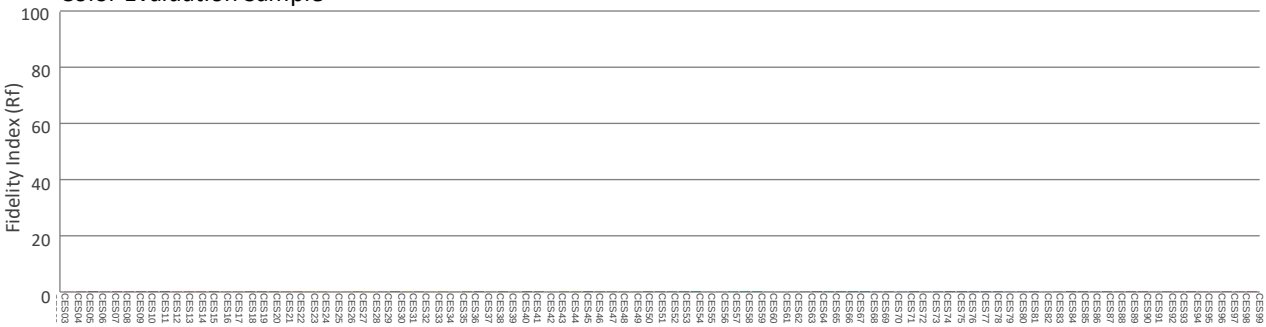


Rf by Hue

Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-18hrs

Report Summary

Measurements

Fixture Output: 516 lm
Fixture Peak: 3101 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 124 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 17.6°
Field Angle (10%): 35.9°
Cutoff Angle (3%): 63.8°

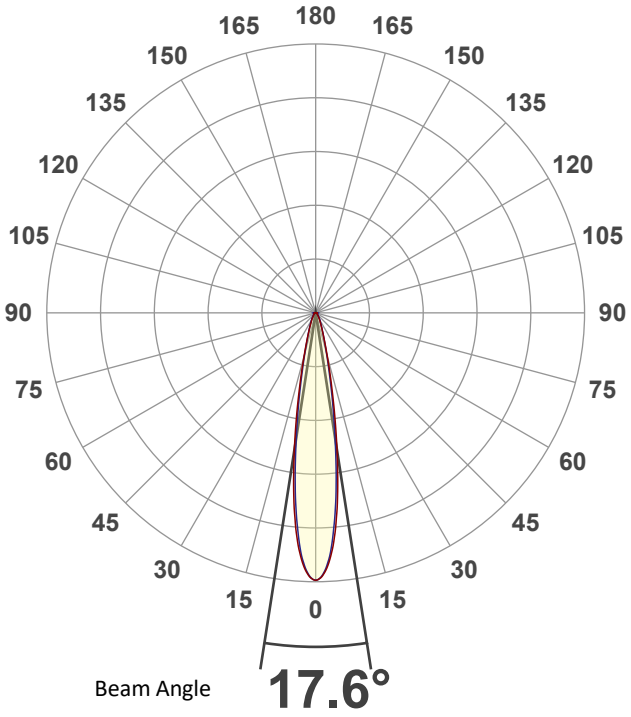
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

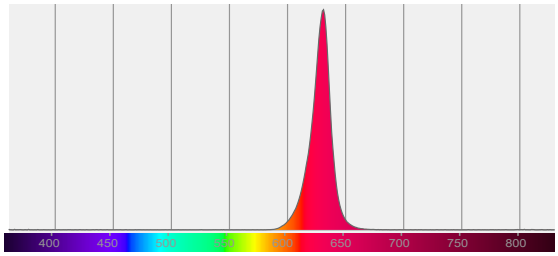
Overall Measurement

Angular Beam Distribution



Beam Angle 17.6°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.695
Y: 0.303

Light Quality

CRI: 0.0

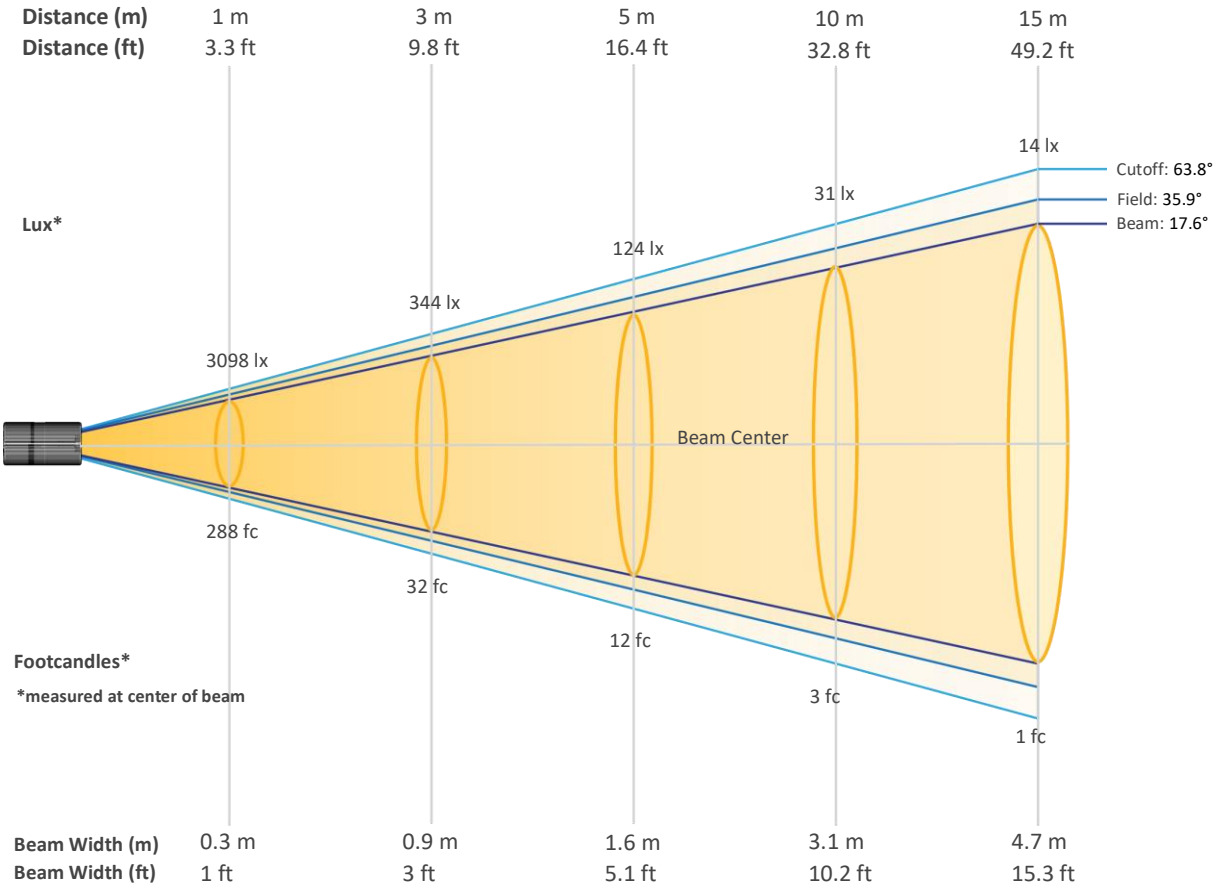
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-18hrs

Beam Details

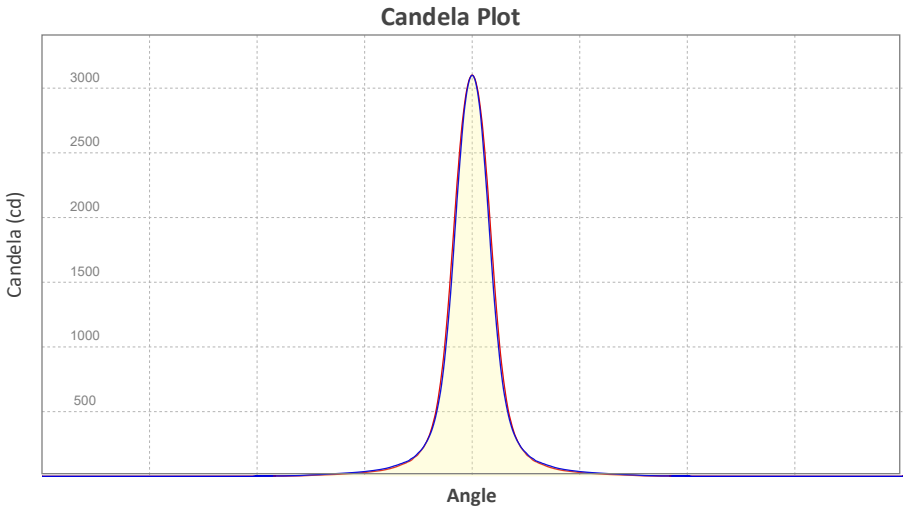


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3098	775	344	194	124	86	63	48	38	31
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	26	22	18	16	14	12	11	10	9	8
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	288	72	32	18	12	8	6	4	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	2	2	1	1	1	1	1	1	1

Photometric & Chromaticity Report

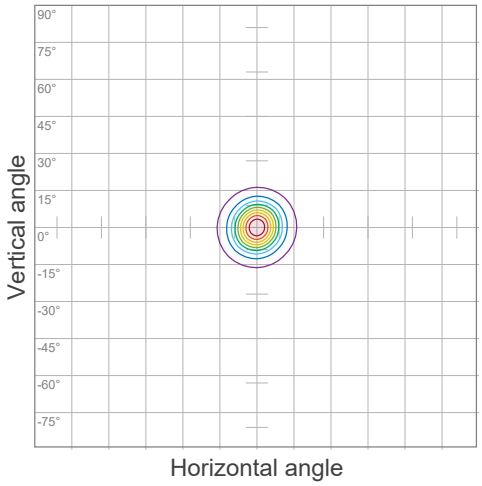
Well Batten 14: Standard Optics - Red-18hrs



Beam Angle (50%): 17.6°
Field Angle (10%): 35.9°
Cutoff Angle (3%): 63.8°

ISO Diagrams

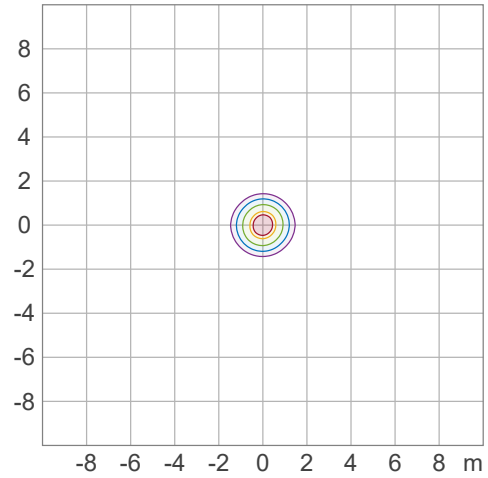
ISO Candela Diagram



90 %	2788.5 cd
80 %	2478.7 cd
70 %	2168.8 cd
60 %	1859.0 cd
50 %	1549.2 cd
40 %	1239.3 cd
30 %	929.5 cd
20 %	619.7 cd
10 %	309.8 cd

Peak intensity: 3098.3 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	172.1 lx
30.0 %	103.3 lx
10.0 %	34.4 lx
5.0 %	17.2 lx
3.0 %	10.3 lx

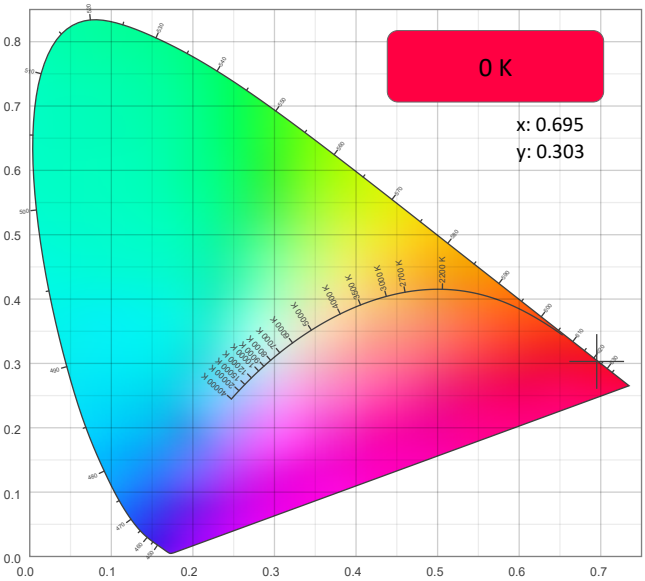
Peak illuminance: 344.3 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

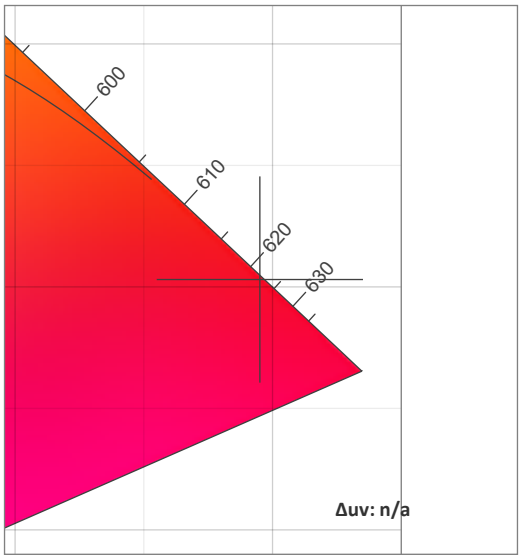
Well Batten 14: Standard Optics - Red-18hrs

Chromaticity

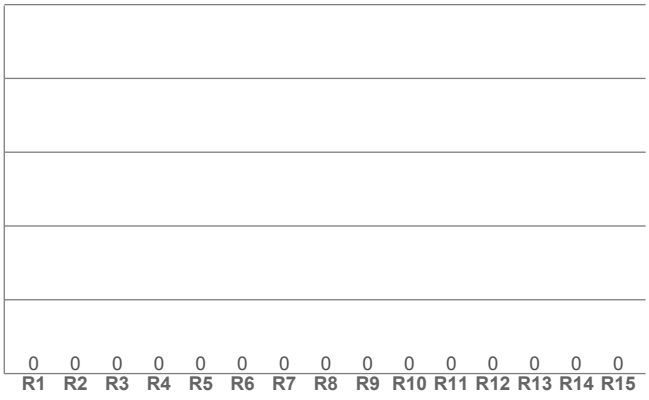
CIE 1931



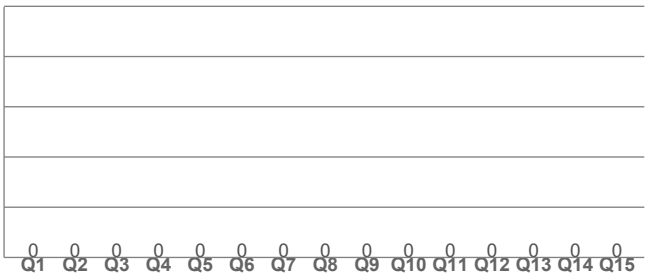
CIE 1931 - Zoom



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	0.695	0.303

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.303	0.530

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-18hrs

TM-30 Details

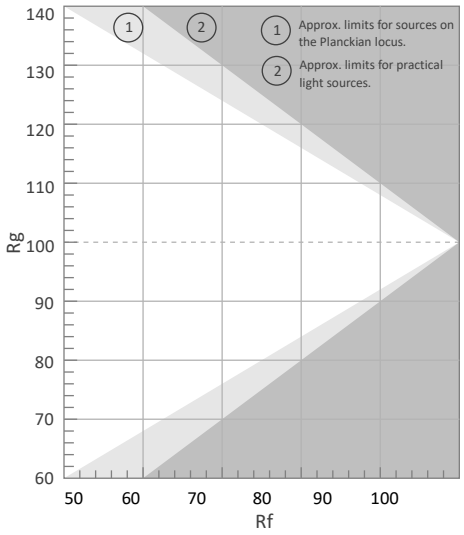
Rf 0.0

Fidelity Index (Rg)

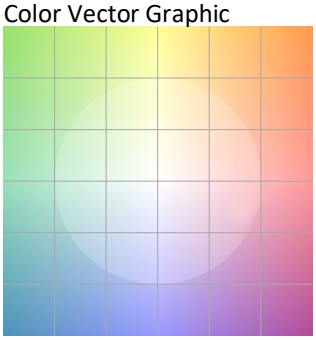
Rg 0.0

Gammut Index (Rg)

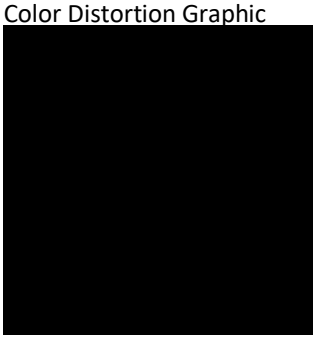
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



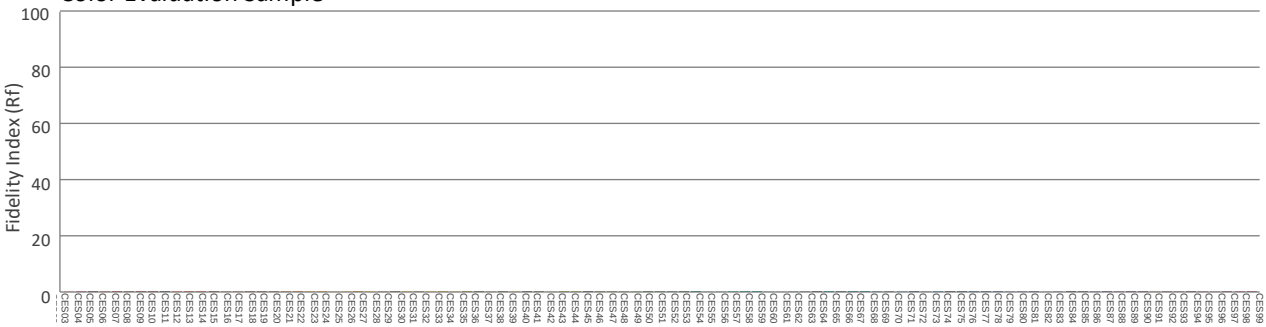
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-AC

Report Summary

Measurements

Fixture Output: 1809 lm
Fixture Peak: 11009 cd
Fixture Efficacy: 42 lm/W
Intensity @ 5m: 440 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 17.6°
Field Angle (10%): 35.9°
Cutoff Angle (3%): 63.5°

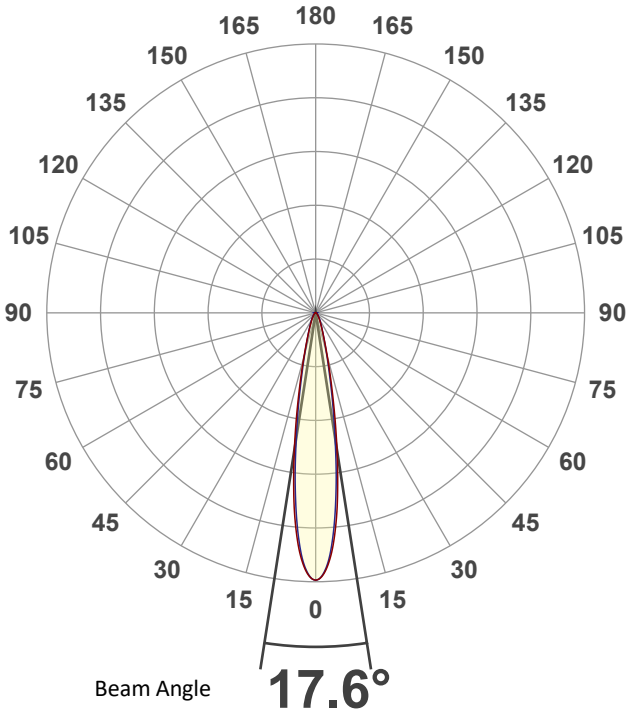
Conditions

AC Supply: 119 V, 60 Hz
Power: 43.42 W
Current: 0.364 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

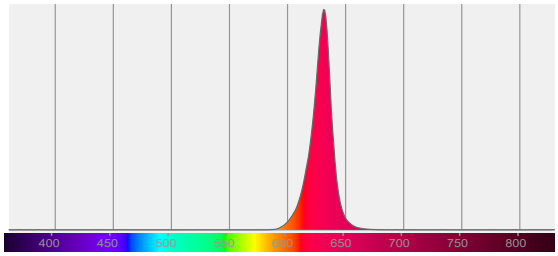
Overall Measurement

Angular Beam Distribution



Beam Angle 17.6°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.697
Y: 0.302

Light Quality

CRI: 0.0

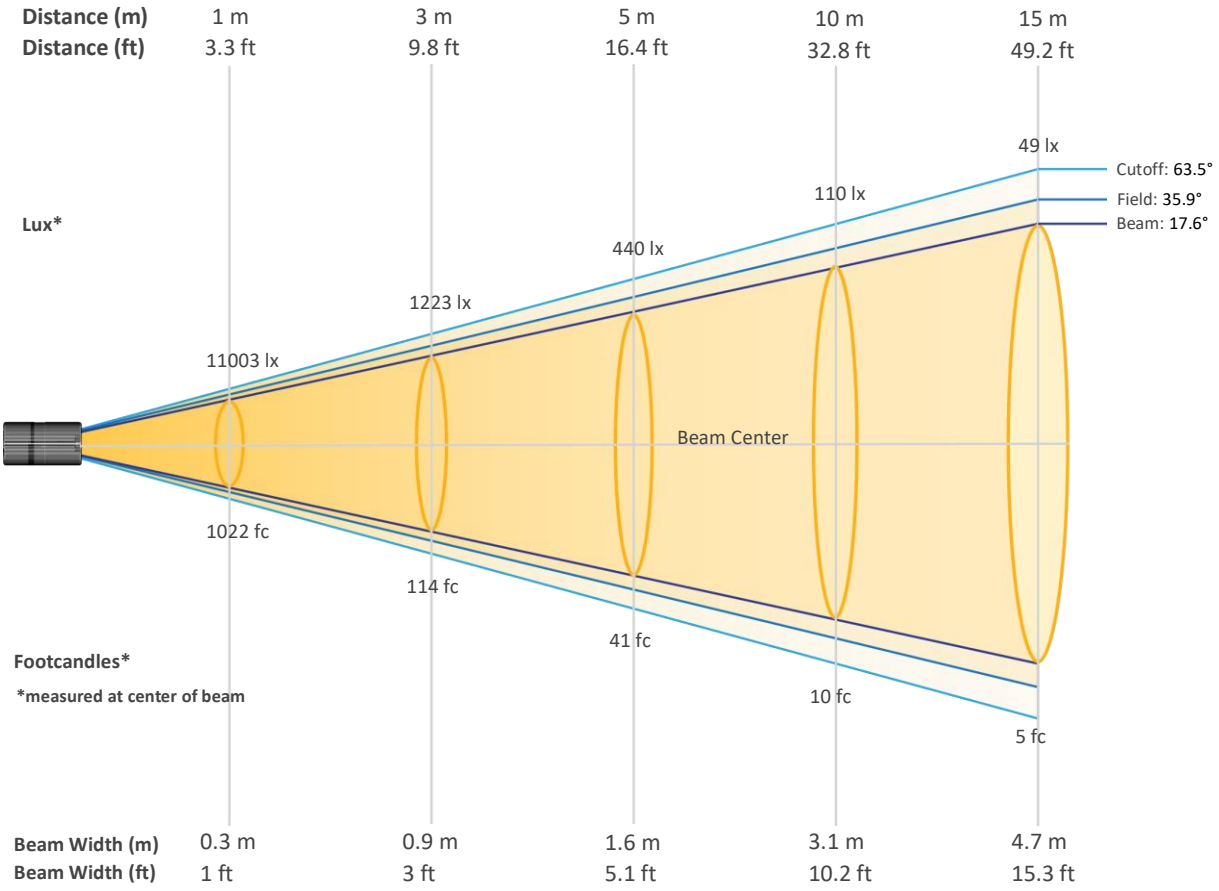
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-AC

Beam Details

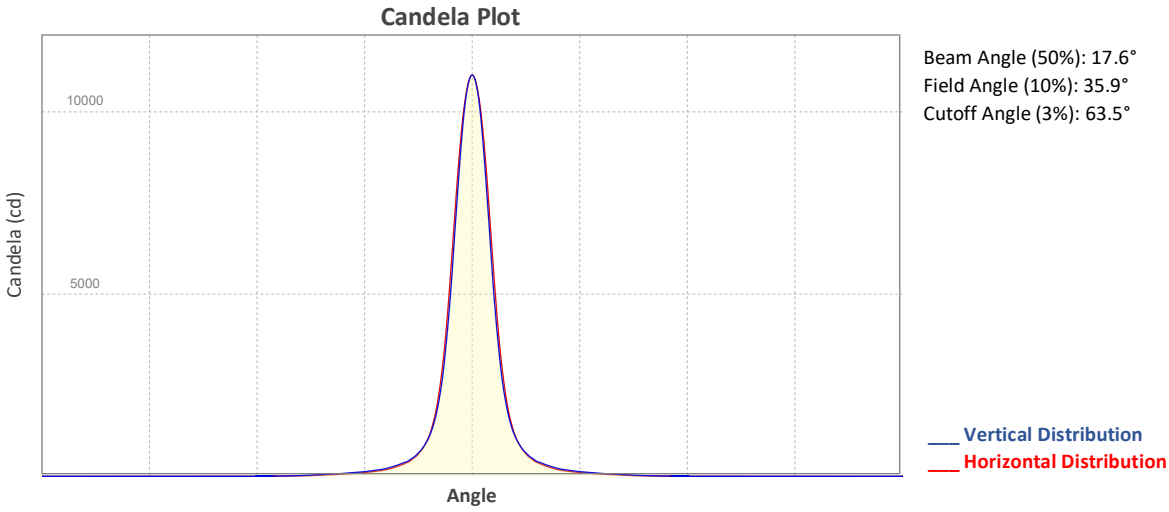


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	11003	2751	1223	688	440	306	225	172	136	110
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	91	76	65	56	49	43	38	34	30	28
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1022	256	114	64	41	28	21	16	13	10
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	8	7	6	5	5	4	4	3	3	3

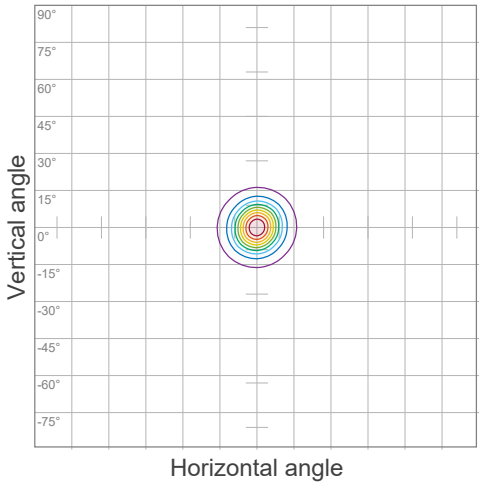
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-AC



ISO Diagrams

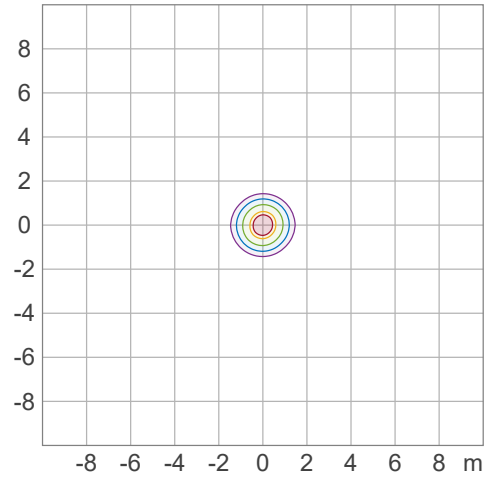
ISO Candela Diagram



90 %	9902.7 cd
80 %	8802.4 cd
70 %	7702.1 cd
60 %	6601.8 cd
50 %	5501.5 cd
40 %	4401.2 cd
30 %	3300.9 cd
20 %	2200.6 cd
10 %	1100.3 cd

Peak intensity: 11003.0 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	611.3 lx
30.0 %	366.8 lx
10.0 %	122.3 lx
5.0 %	61.1 lx
3.0 %	36.7 lx

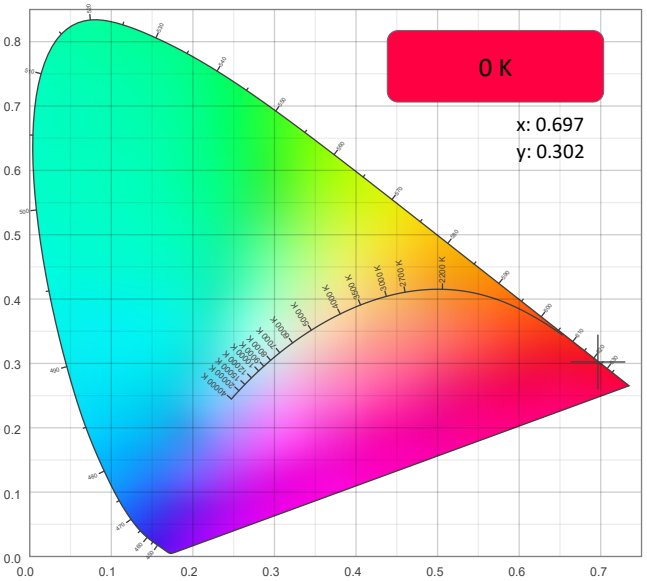
Peak illuminance: 1222.6 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

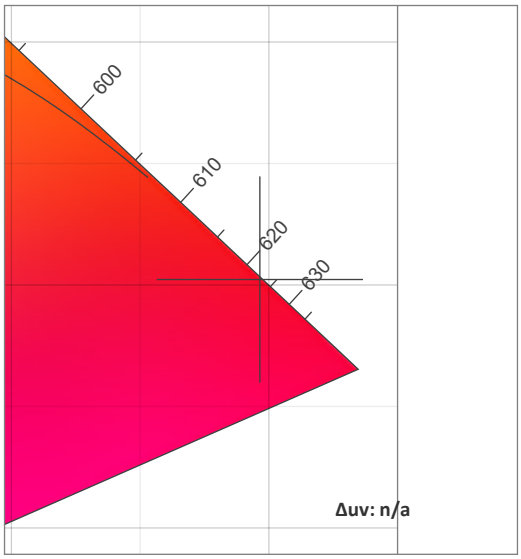
Well Batten 14: Standard Optics - Red-AC

Chromaticity

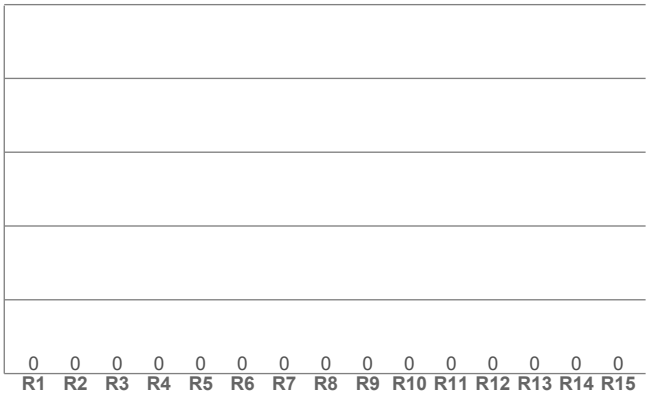
CIE 1931



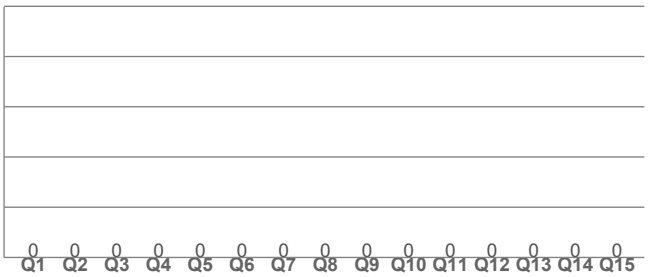
CIE 1931 - Zoom



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	0.697	0.302

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.302	0.532

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-AC

TM-30 Details

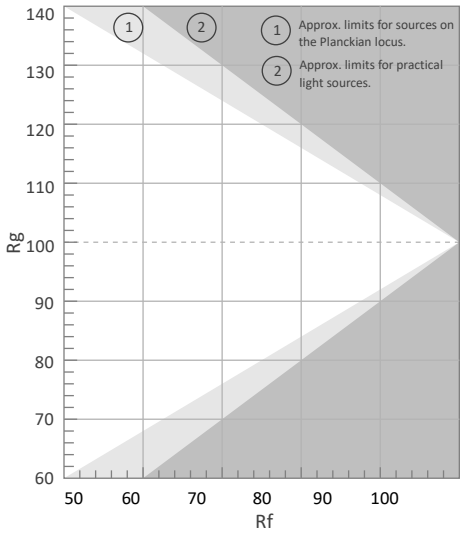
Rf 0.0

Fidelity Index (Rg)

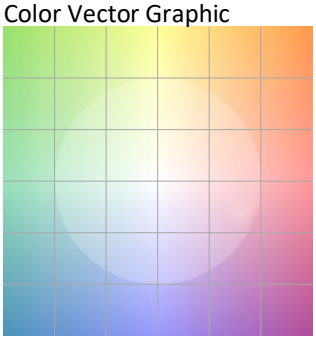
Rg 0.0

Gammut Index (Rg)

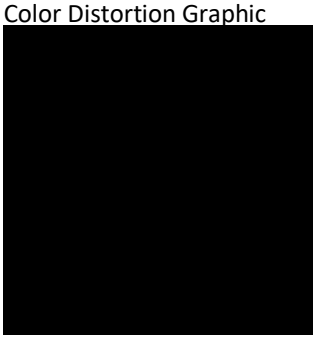
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



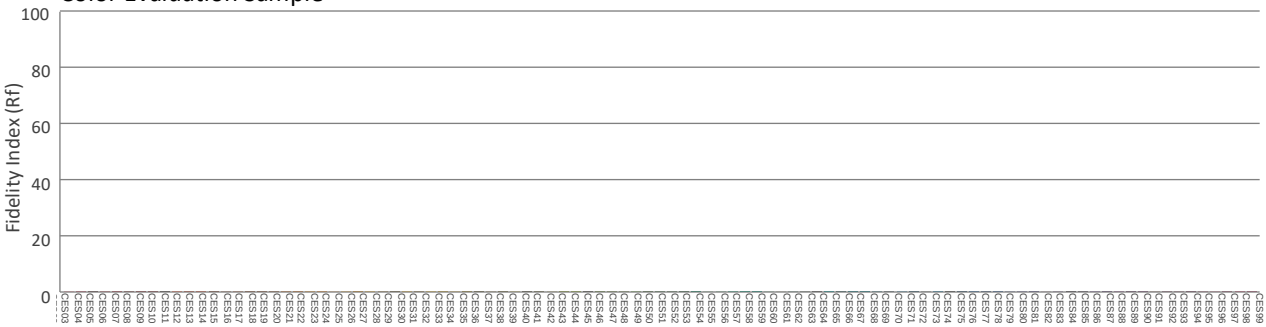
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-Off

Report Summary

Measurements

Fixture Output: 1773 lm
Fixture Peak: 10832 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 433 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 17.6°
Field Angle (10%): 35.9°
Cutoff Angle (3%): 63.5°

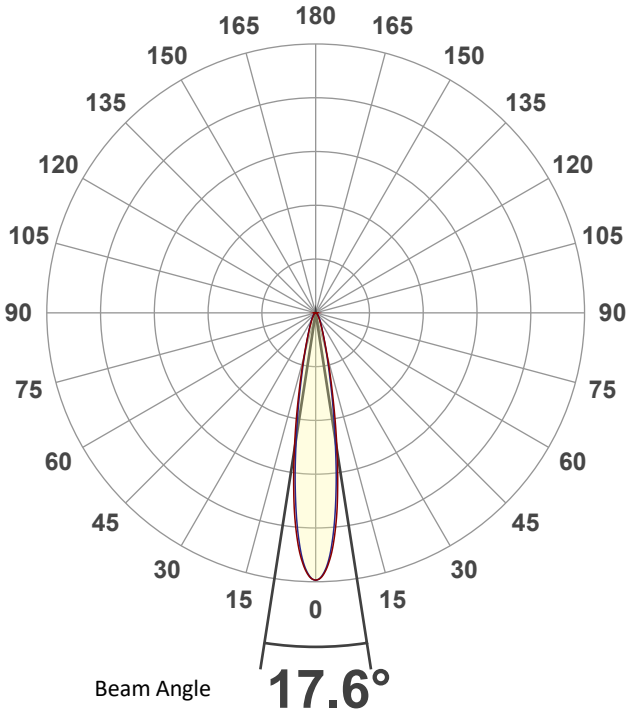
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

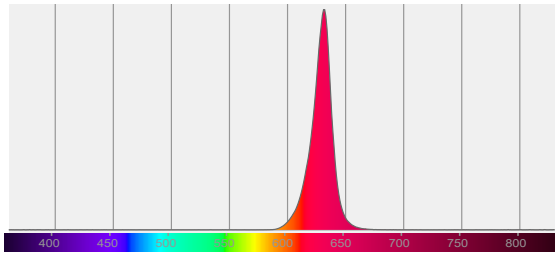
Overall Measurement

Angular Beam Distribution



Beam Angle 17.6°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.697
Y: 0.302

Light Quality

CRI: 0.0

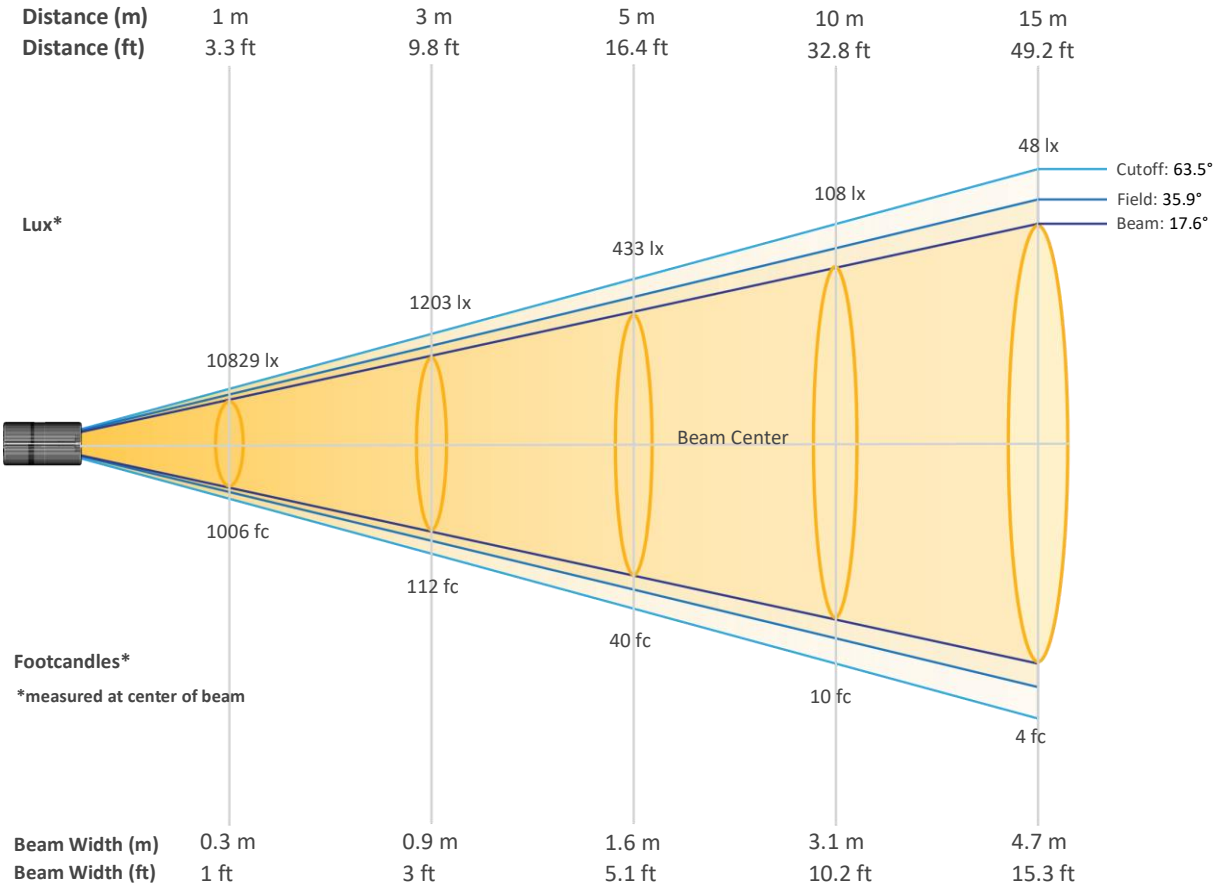
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-Off

Beam Details

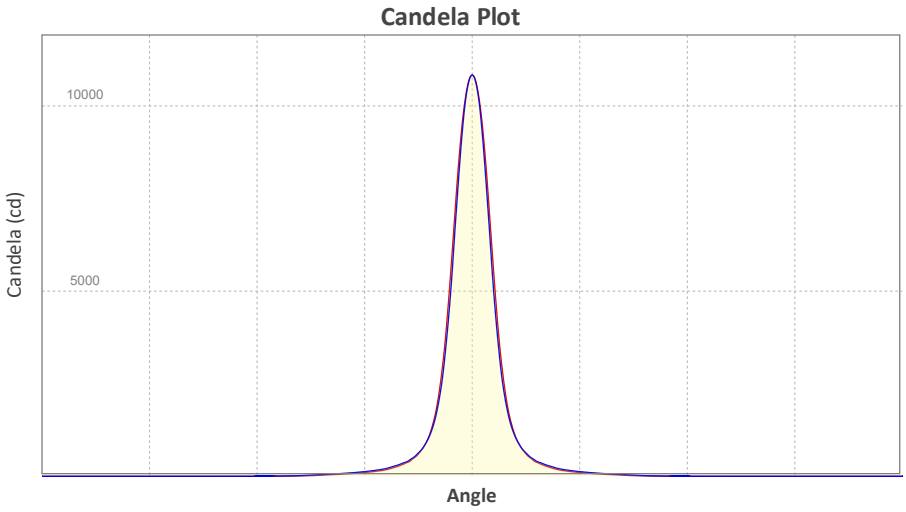


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	10829	2707	1203	677	433	301	221	169	134	108
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	89	75	64	55	48	42	37	33	30	27
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1006	252	112	63	40	28	21	16	12	10
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	8	7	6	5	4	4	3	3	3	3

Photometric & Chromaticity Report

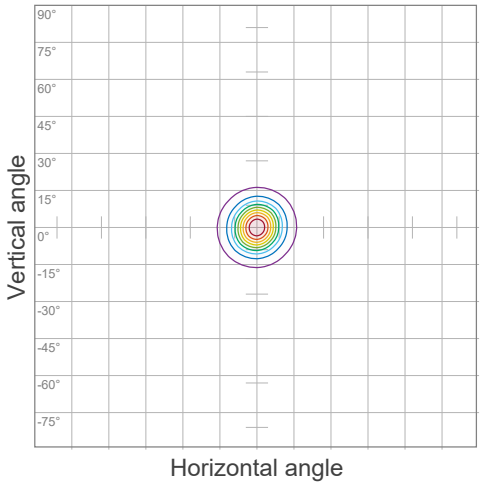
Well Batten 14: Standard Optics - Red-Off



Beam Angle (50%): 17.6°
Field Angle (10%): 35.9°
Cutoff Angle (3%): 63.5°

ISO Diagrams

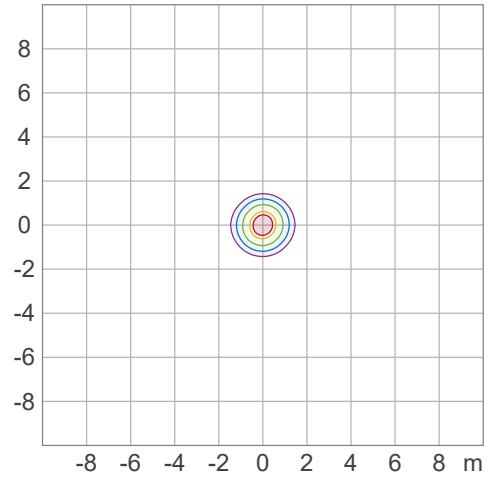
ISO Candela Diagram



90 %	9745.7 cd
80 %	8662.9 cd
70 %	7580.0 cd
60 %	6497.1 cd
50 %	5414.3 cd
40 %	4331.4 cd
30 %	3248.6 cd
20 %	2165.7 cd
10 %	1082.9 cd

Peak intensity: 10828.6 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	601.6 lx
30.0 %	361.0 lx
10.0 %	120.3 lx
5.0 %	60.2 lx
3.0 %	36.1 lx

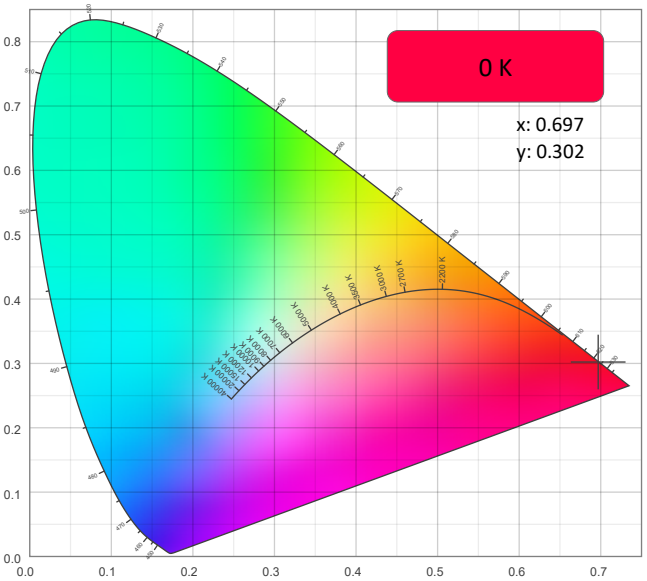
Peak illuminance: 1203.2 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

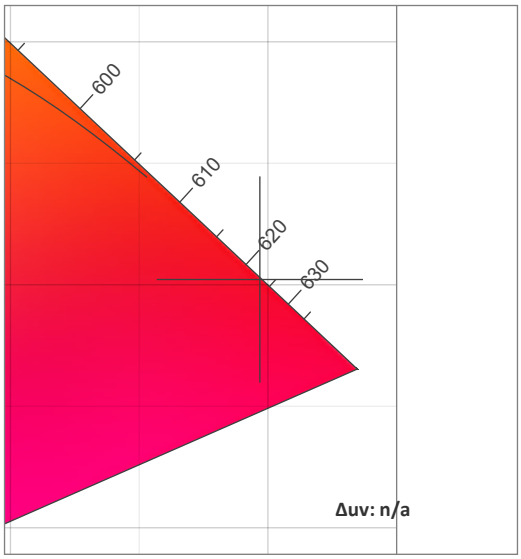
Well Batten 14: Standard Optics - Red-Off

Chromaticity

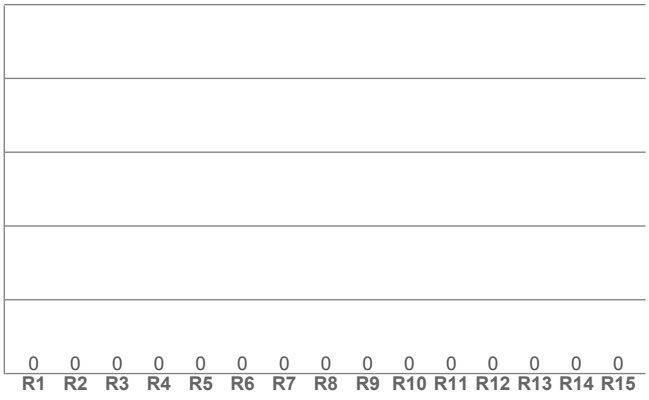
CIE 1931



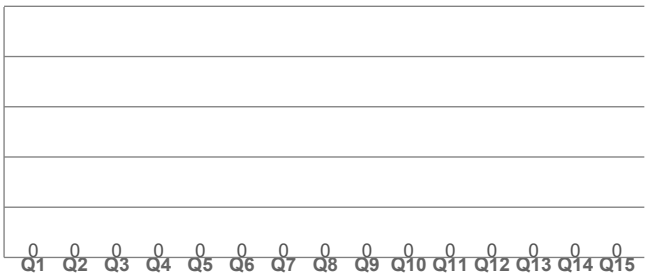
CIE 1931 - Zoom



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	0.697	0.302

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.302	0.533

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Red-Off

TM-30 Details

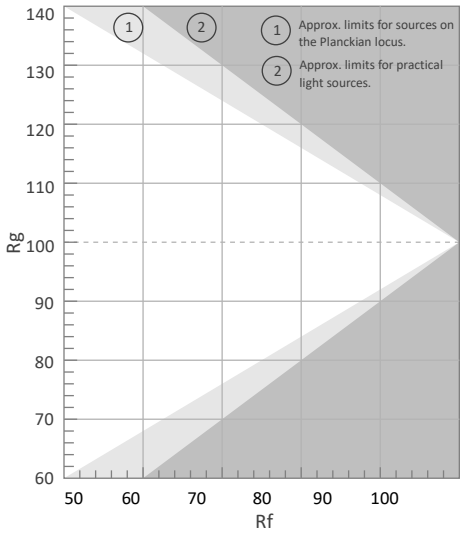
Rf 0.0

Fidelity Index (Rg)

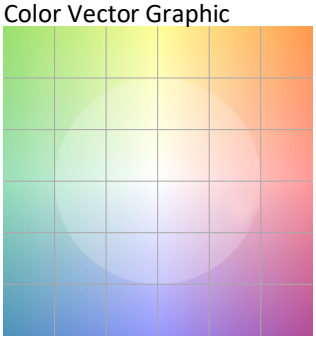
Rg 0.0

Gammut Index (Rg)

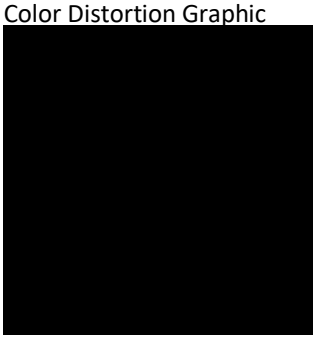
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



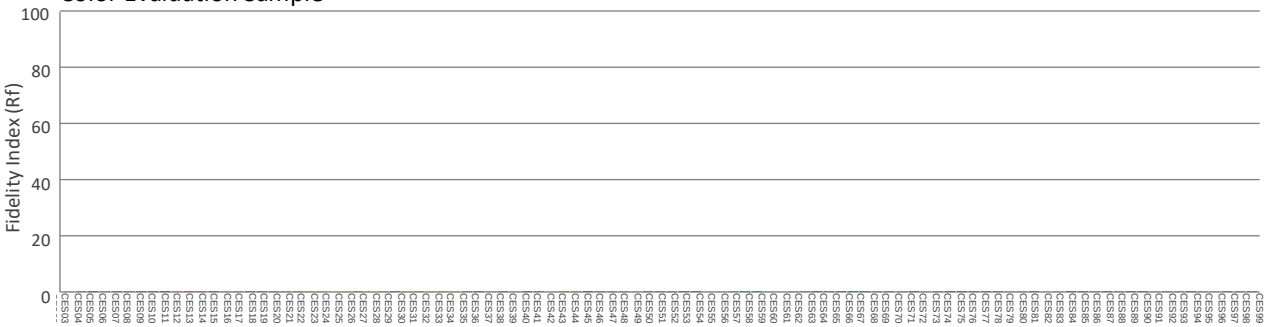
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-5hrs

Report Summary

Measurements

Fixture Output: 3106 lm
Fixture Peak: 22282 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 891 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 15.6°
Field Angle (10%): 32.7°
Cutoff Angle (3%): 59.6°

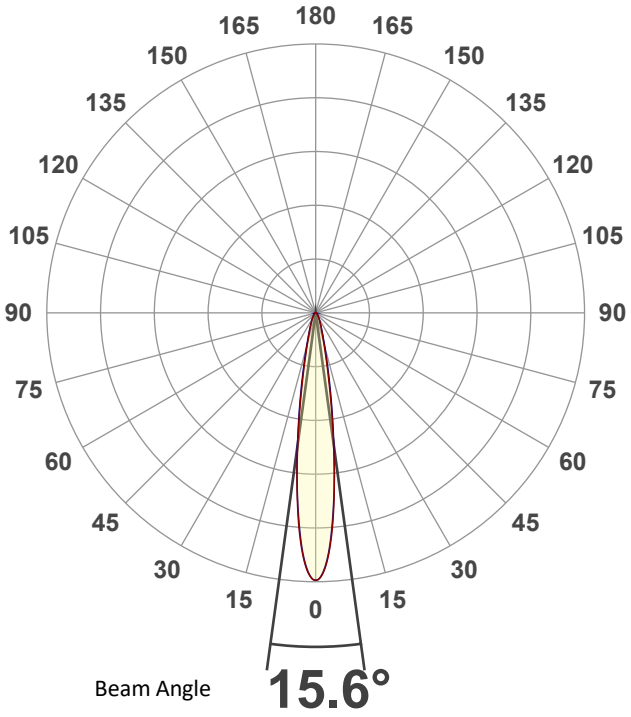
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

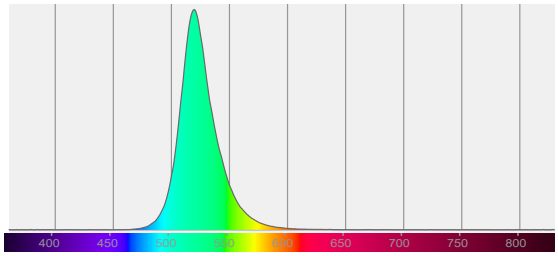
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.160
Y: 0.739

Light Quality

CRI: 0.0

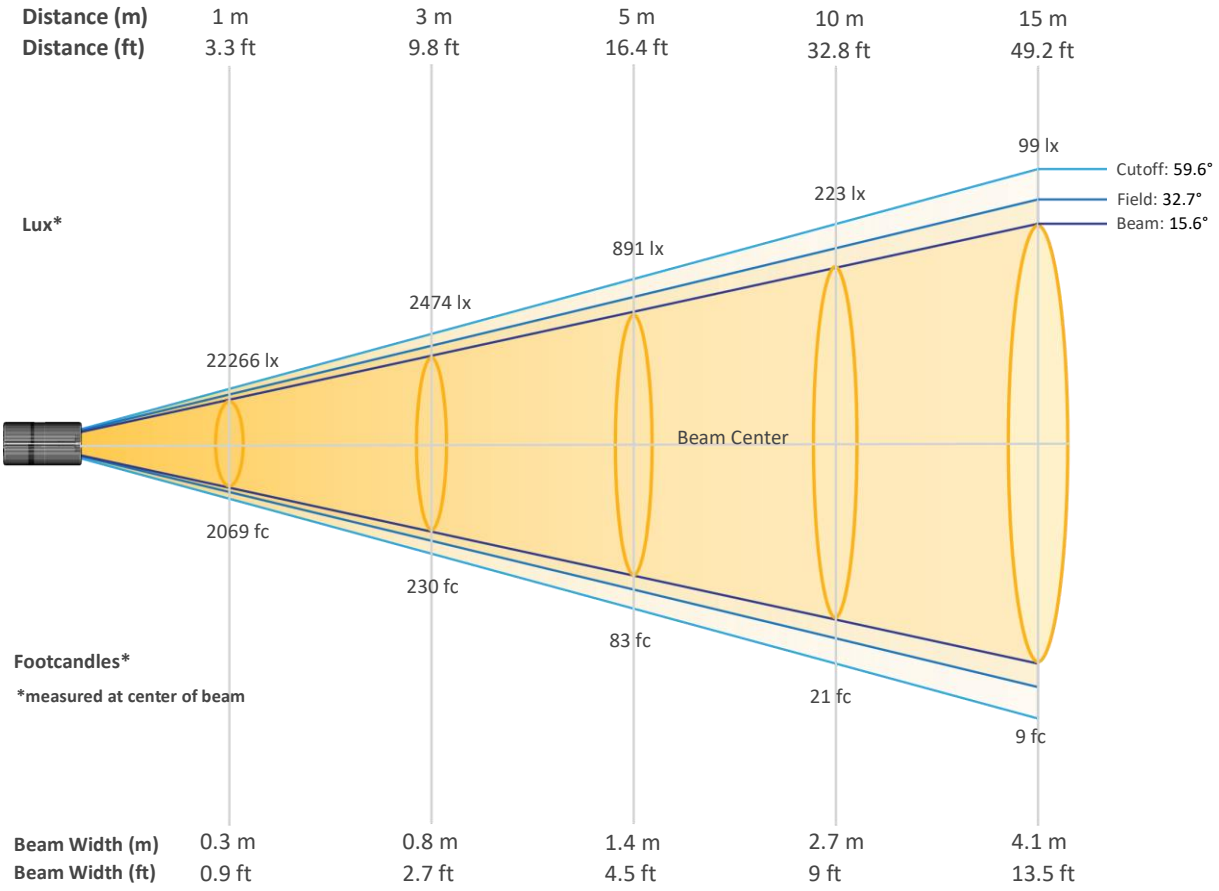
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-5hrs

Beam Details

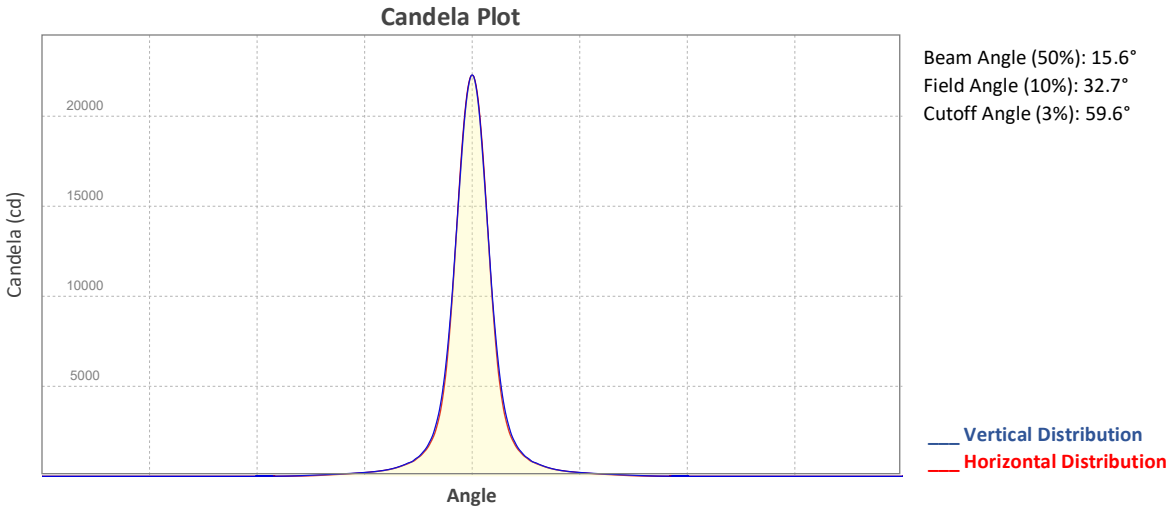


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	22266	5567	2474	1392	891	619	454	348	275	223
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	184	155	132	114	99	87	77	69	62	56
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2069	517	230	129	83	57	42	32	26	21
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	17	14	12	11	9	8	7	6	6	5

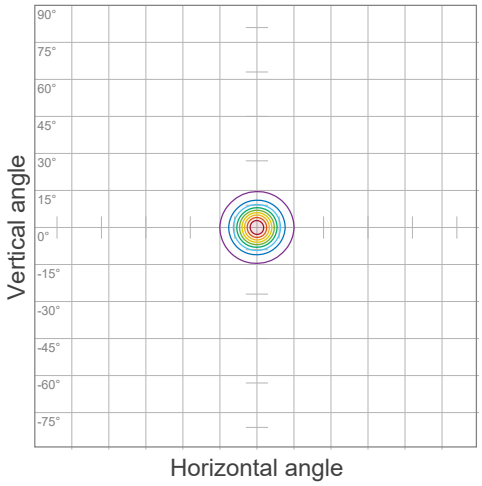
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-5hrs



ISO Diagrams

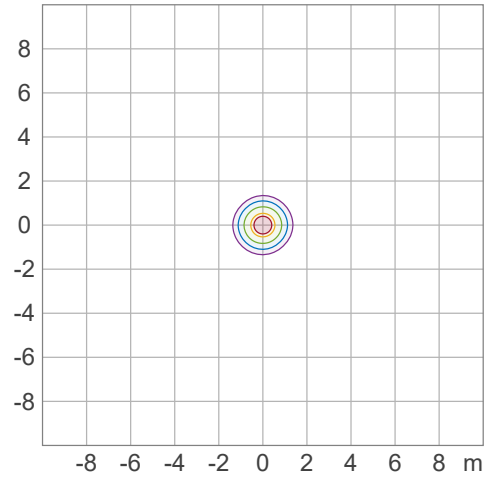
ISO Candela Diagram



90 %	20039.7 cd
80 %	17813.0 cd
70 %	15586.4 cd
60 %	13359.8 cd
50 %	11133.1 cd
40 %	8906.5 cd
30 %	6679.9 cd
20 %	4453.3 cd
10 %	2226.6 cd

Peak intensity: 22266.3 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1237.0 lx
30.0 %	742.2 lx
10.0 %	247.4 lx
5.0 %	123.7 lx
3.0 %	74.2 lx

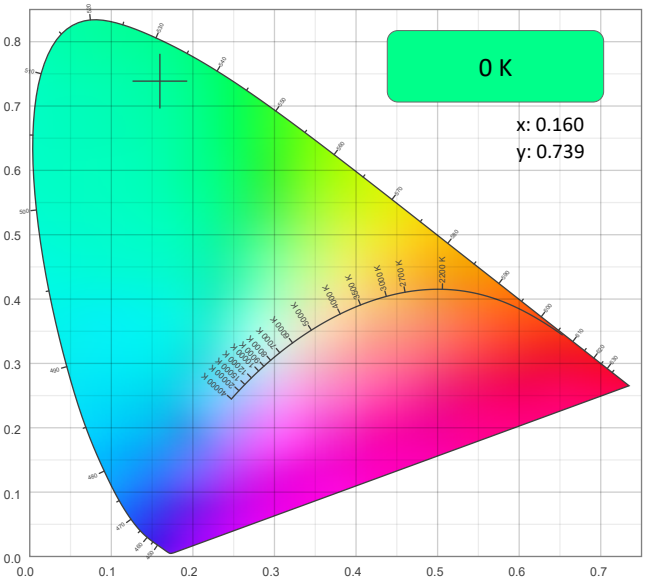
Peak illuminance: 2474.0 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

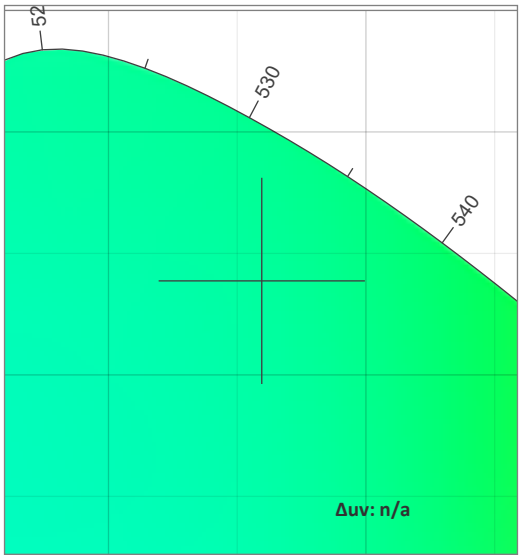
Well Batten 14: Standard Optics - Green-5hrs

Chromaticity

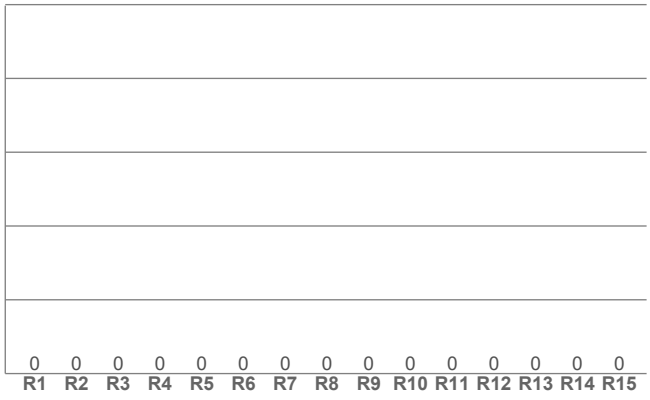
CIE 1931



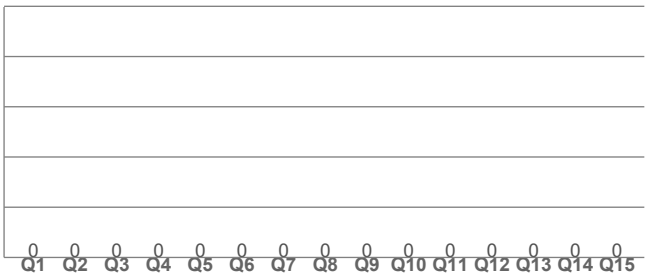
CIE 1931 - Zoom



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	0.160	0.739

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.739	0.055

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-5hrs

TM-30 Details

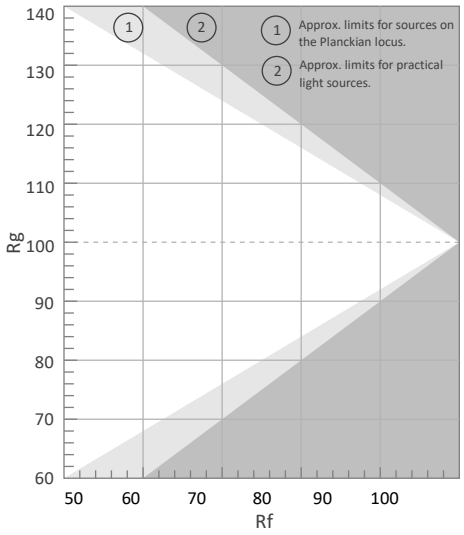
Rf 0.0

Fidelity Index (Rg)

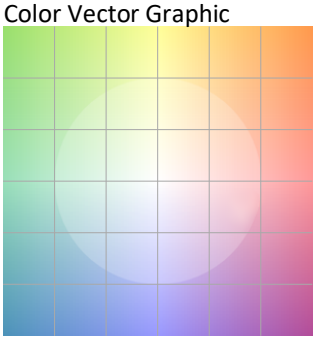
Rg 0.0

Gammut Index (Rg)

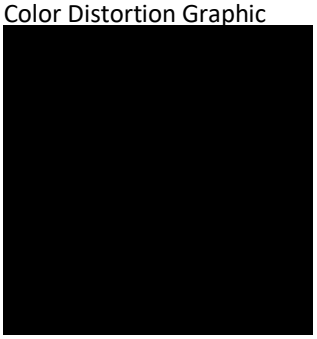
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



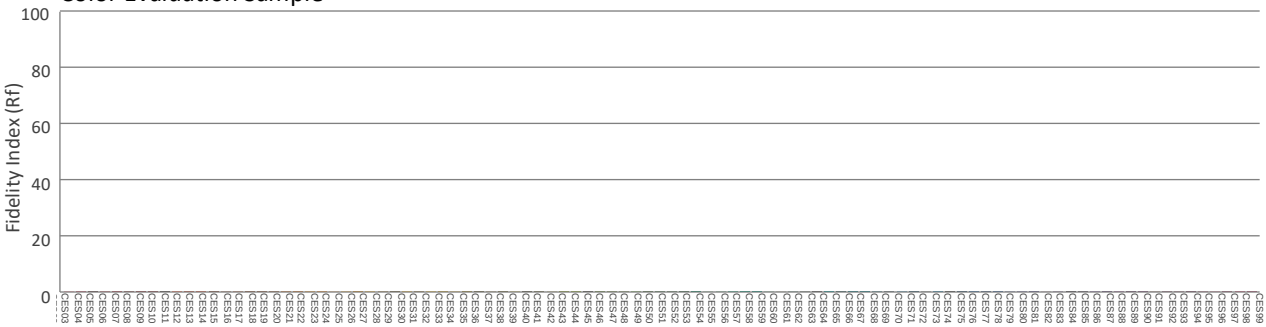
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-8hrs

Report Summary

Measurements

Fixture Output: 1948 lm
Fixture Peak: 13893 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 555 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 15.6°
Field Angle (10%): 32.8°
Cutoff Angle (3%): 59.8°

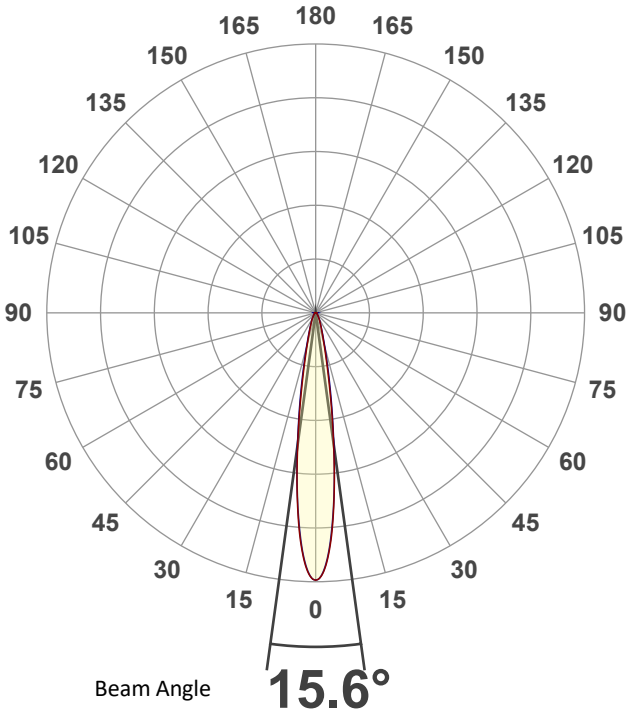
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

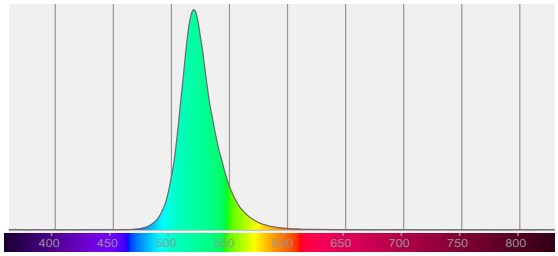
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.158
Y: 0.740

Light Quality

CRI: 0.0

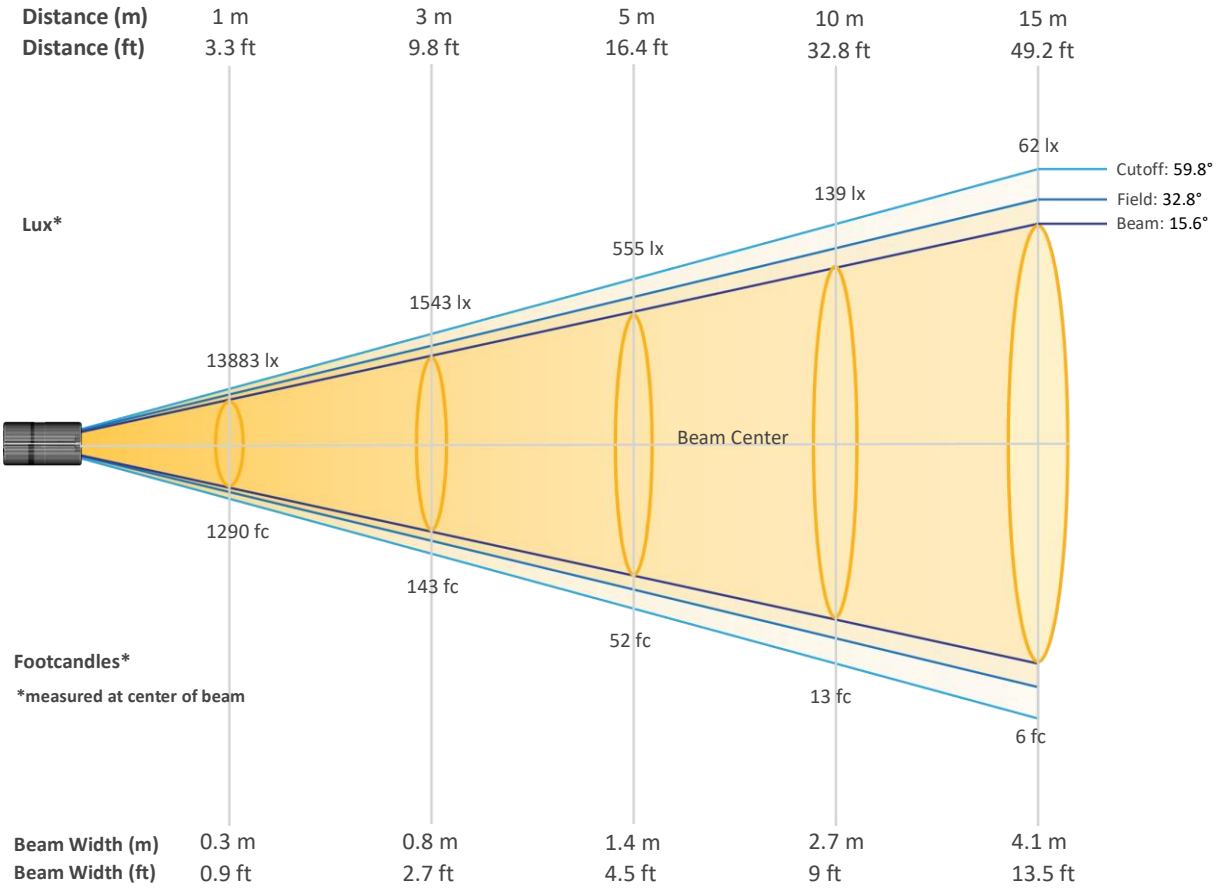
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-8hrs

Beam Details

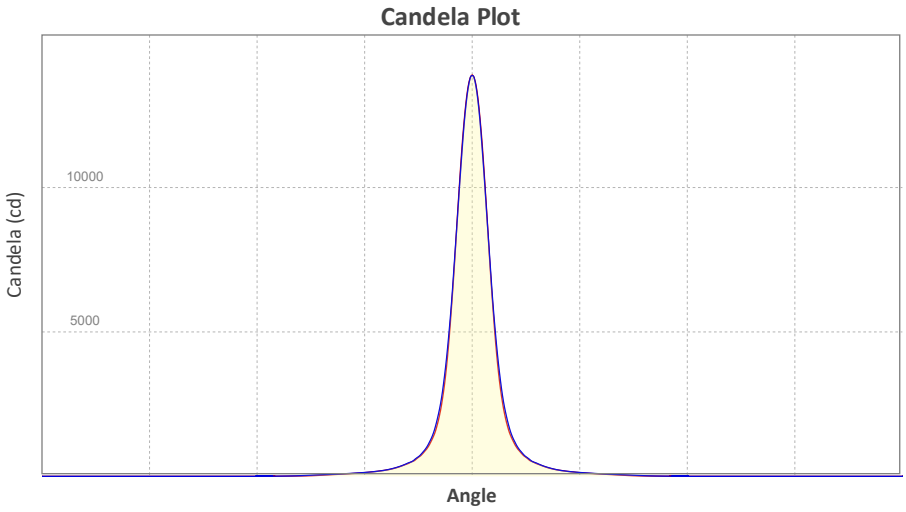


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	13883	3471	1543	868	555	386	283	217	171	139
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	115	96	82	71	62	54	48	43	38	35
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1290	322	143	81	52	36	26	20	16	13
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	11	9	8	7	6	5	4	4	4	3

Photometric & Chromaticity Report

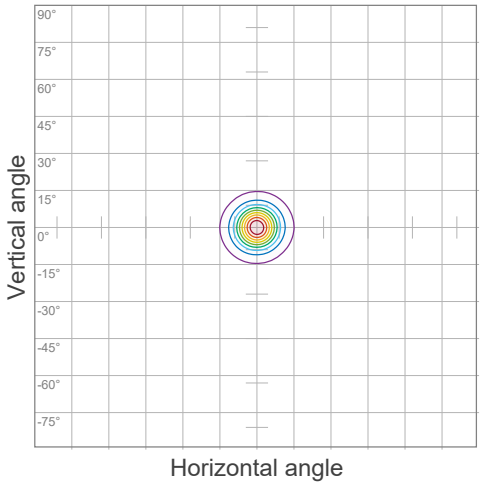
Well Batten 14: Standard Optics - Green-8hrs



Beam Angle (50%): 15.6°
Field Angle (10%): 32.8°
Cutoff Angle (3%): 59.8°

ISO Diagrams

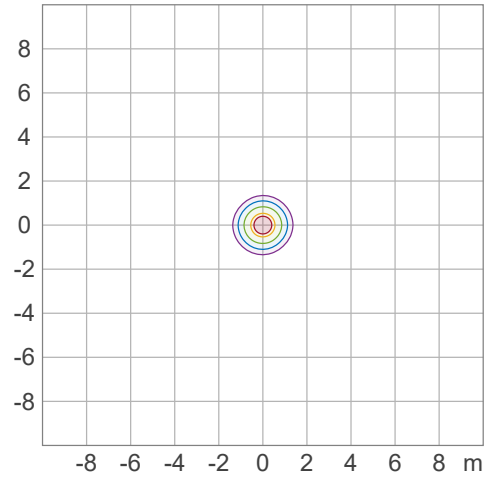
ISO Candela Diagram



90 %	12495.1 cd
80 %	11106.8 cd
70 %	9718.4 cd
60 %	8330.1 cd
50 %	6941.7 cd
40 %	5553.4 cd
30 %	4165.0 cd
20 %	2776.7 cd
10 %	1388.3 cd

Peak intensity: 13883.5 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	771.3 lx
30.0 %	462.8 lx
10.0 %	154.3 lx
5.0 %	77.1 lx
3.0 %	46.3 lx

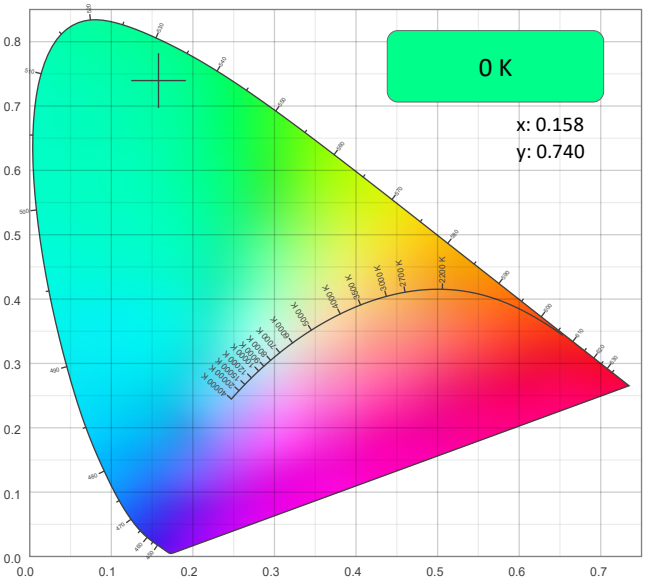
Peak illuminance: 1542.6 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

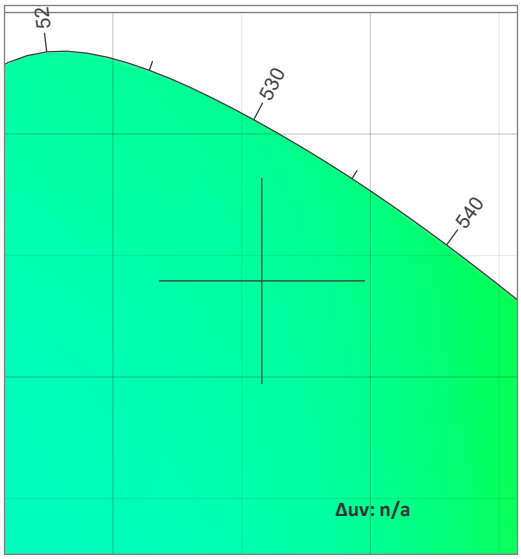
Well Batten 14: Standard Optics - Green-8hrs

Chromaticity

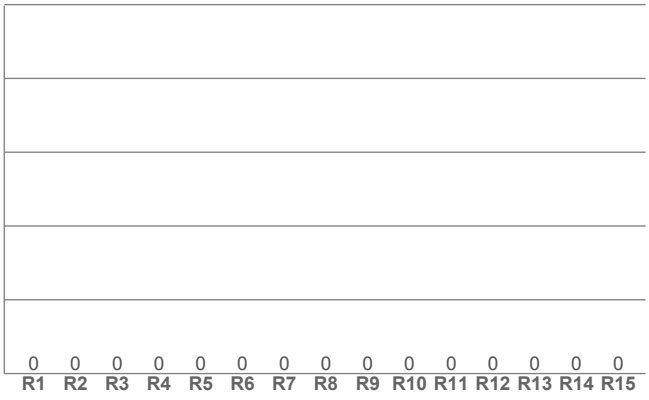
CIE 1931



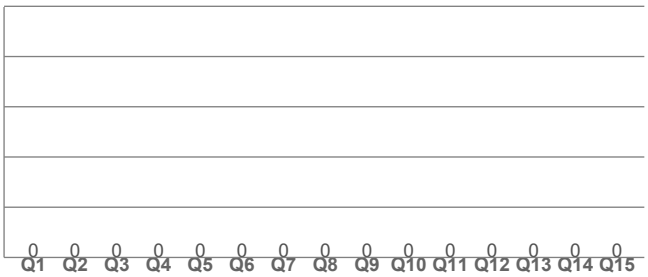
CIE 1931 - Zoom



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	0.158	0.740

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.740	0.055

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-8hrs

TM-30 Details

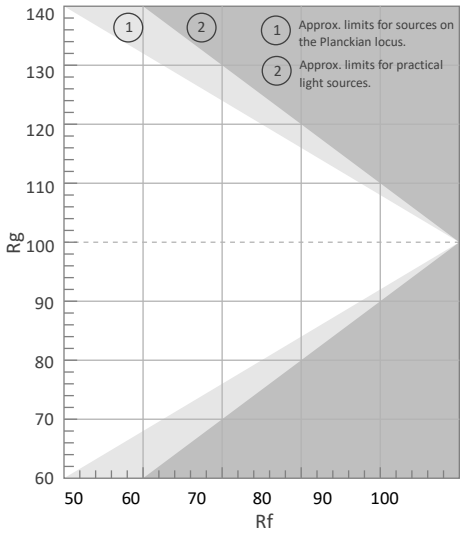
Rf 0.0

Fidelity Index (Rg)

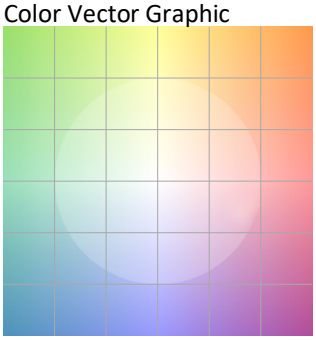
Rg 0.0

Gammut Index (Rg)

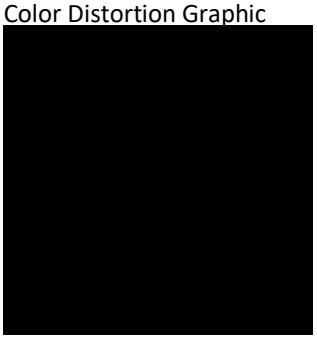
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic

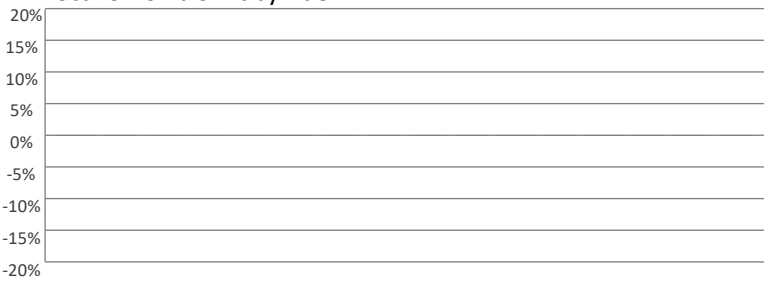


Color Distortion Graphic

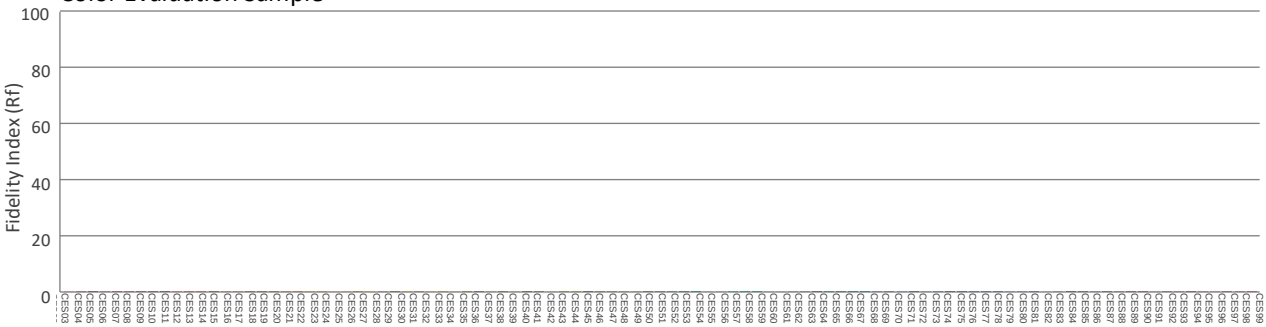


Rf by Hue

Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-12hrs

Report Summary

Measurements

Fixture Output: 1224 lm
Fixture Peak: 8694 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 348 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 15.6°
Field Angle (10%): 32.8°
Cutoff Angle (3%): 59.8°

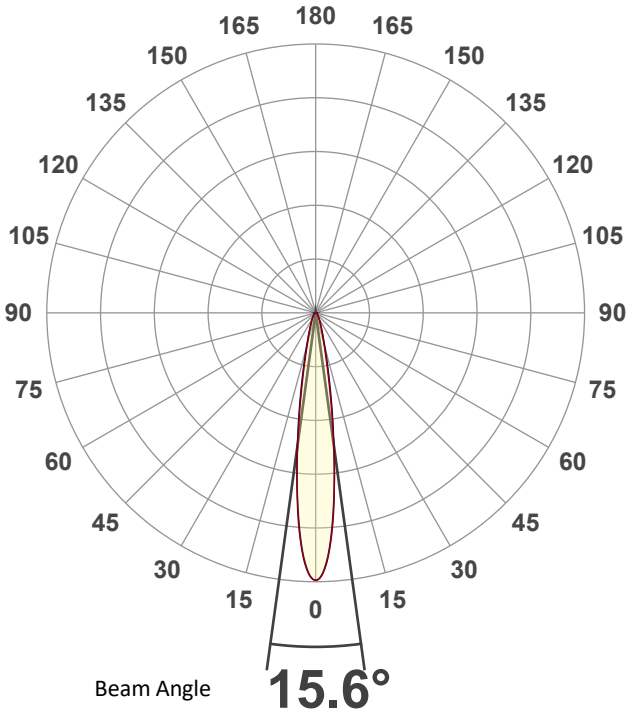
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

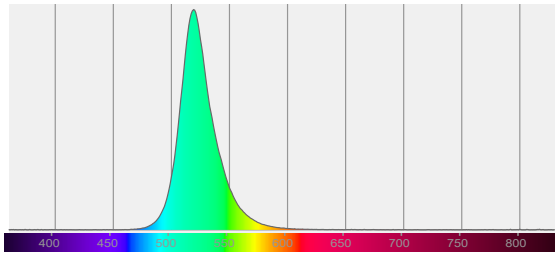
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.157
Y: 0.740

Light Quality

CRI: 0.0

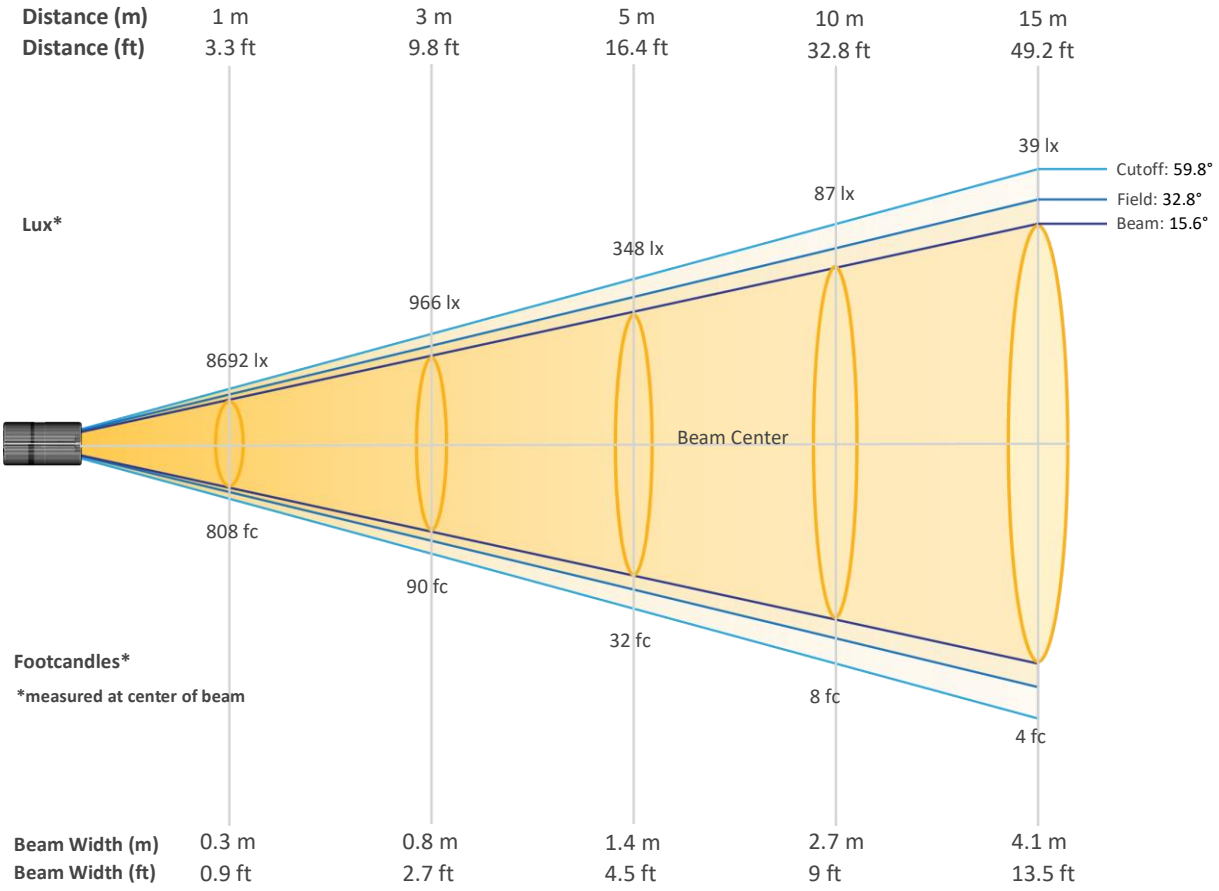
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-12hrs

Beam Details



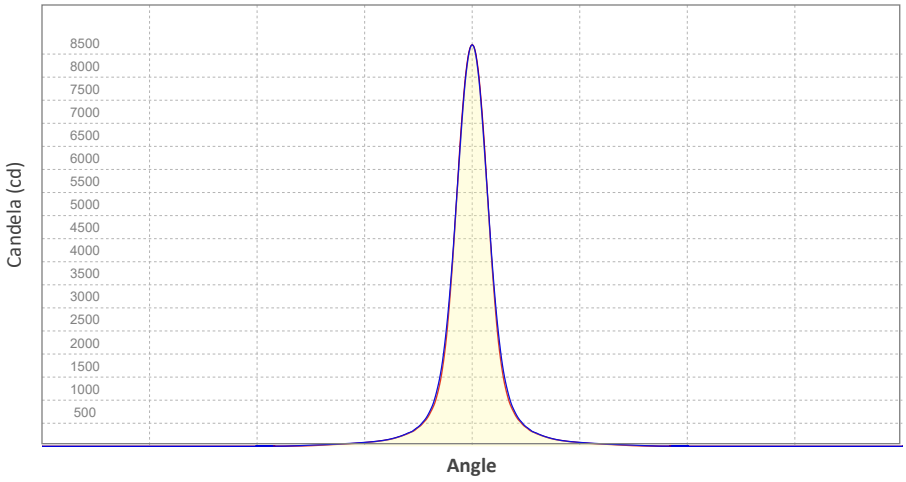
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	8692	2173	966	543	348	241	177	136	107	87
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	72	60	51	44	39	34	30	27	24	22
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	808	202	90	50	32	22	16	13	10	8
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	7	6	5	4	4	3	3	2	2	2

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-12hrs

Candela Plot

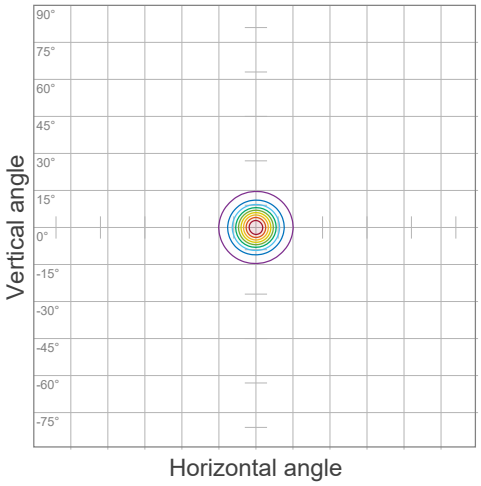


Beam Angle (50%): 15.6°
Field Angle (10%): 32.8°
Cutoff Angle (3%): 59.8°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

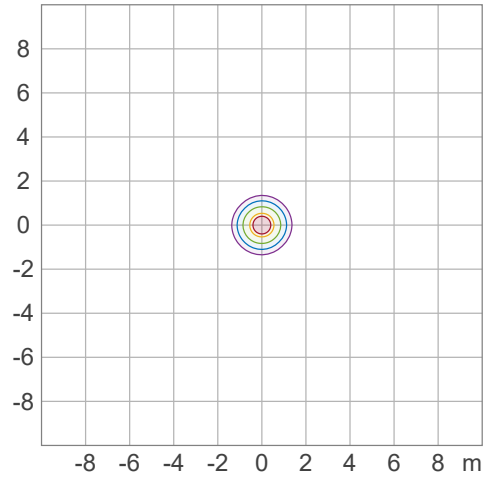
ISO Candela Diagram



90 %	7822.8 cd
80 %	6953.6 cd
70 %	6084.4 cd
60 %	5215.2 cd
50 %	4346.0 cd
40 %	3476.8 cd
30 %	2607.6 cd
20 %	1738.4 cd
10 %	869.2 cd

Peak intensity: 8692.0 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	482.9 lx
30.0 %	289.7 lx
10.0 %	96.6 lx
5.0 %	48.3 lx
3.0 %	29.0 lx

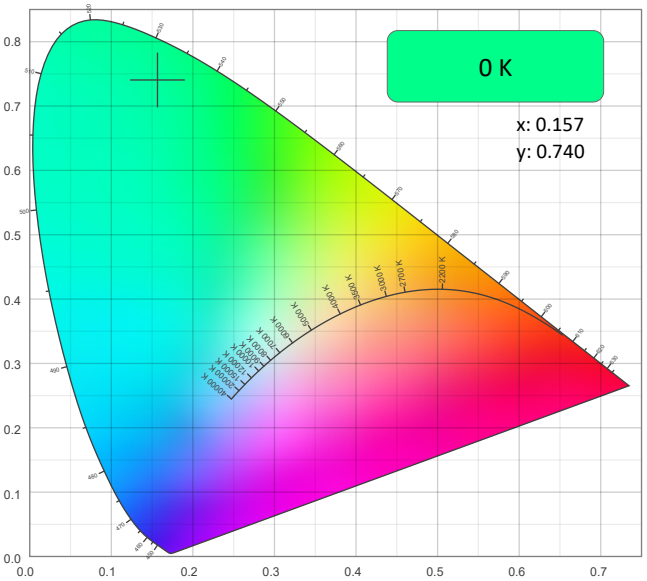
Peak illuminance: 965.8 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

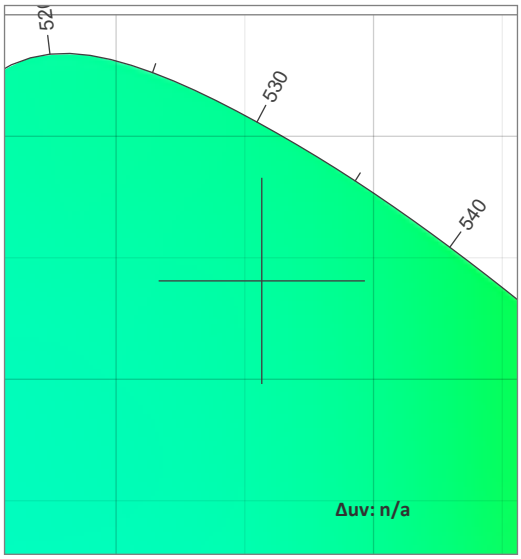
Well Batten 14: Standard Optics - Green-12hrs

Chromaticity

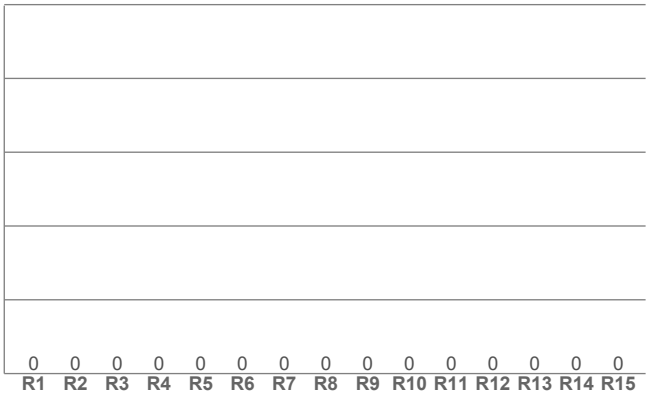
CIE 1931



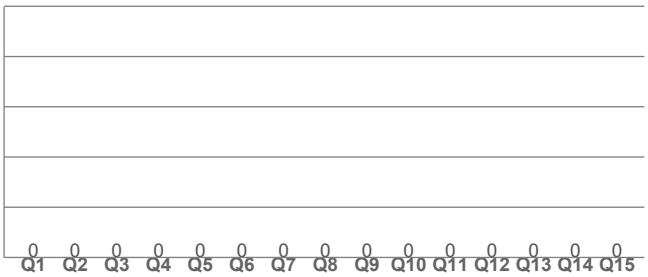
CIE 1931 - Zoom



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	0.157	0.740

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.740	0.054

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-12hrs

TM-30 Details

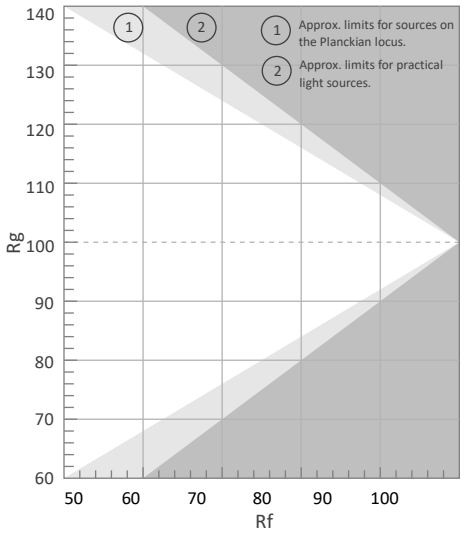
Rf 0.0

Fidelity Index (Rg)

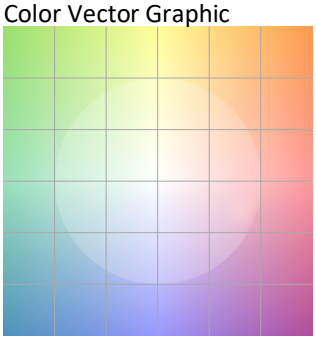
Rg 0.0

Gammut Index (Rg)

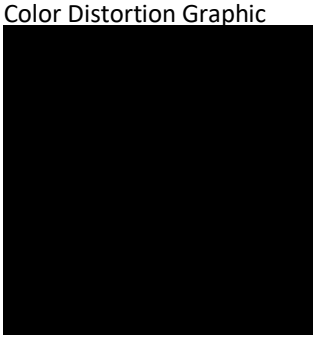
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



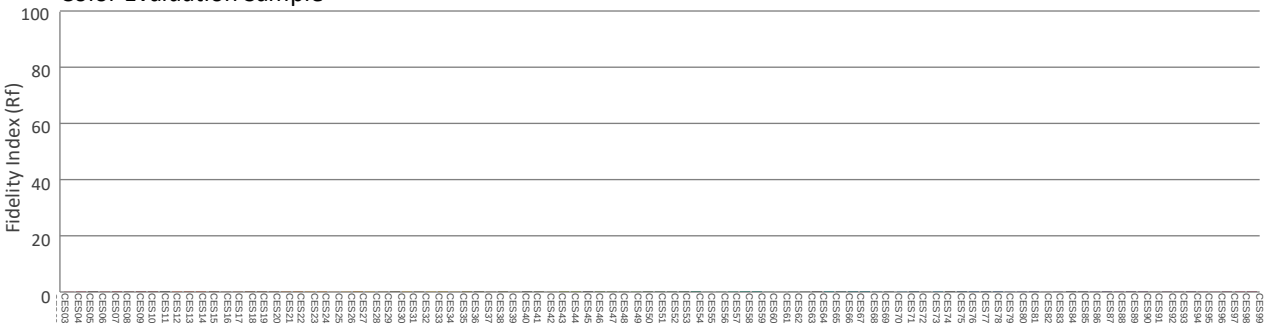
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-18hrs

Report Summary

Measurements

Fixture Output: 751 lm
Fixture Peak: 5370 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 215 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 15.6°
Field Angle (10%): 32.8°
Cutoff Angle (3%): 59.6°

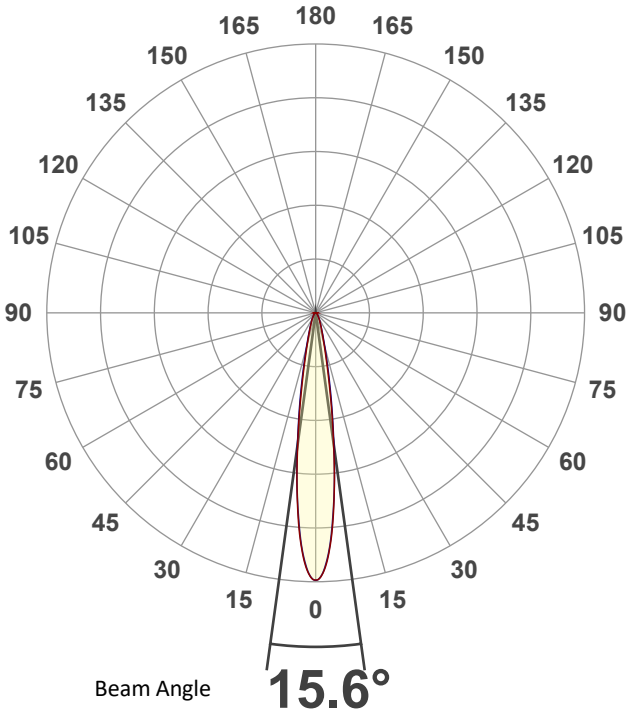
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

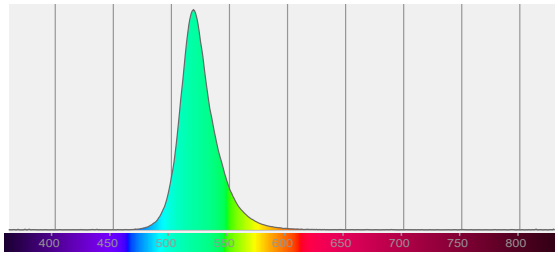
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.155
Y: 0.741

Light Quality

CRI: 0.0

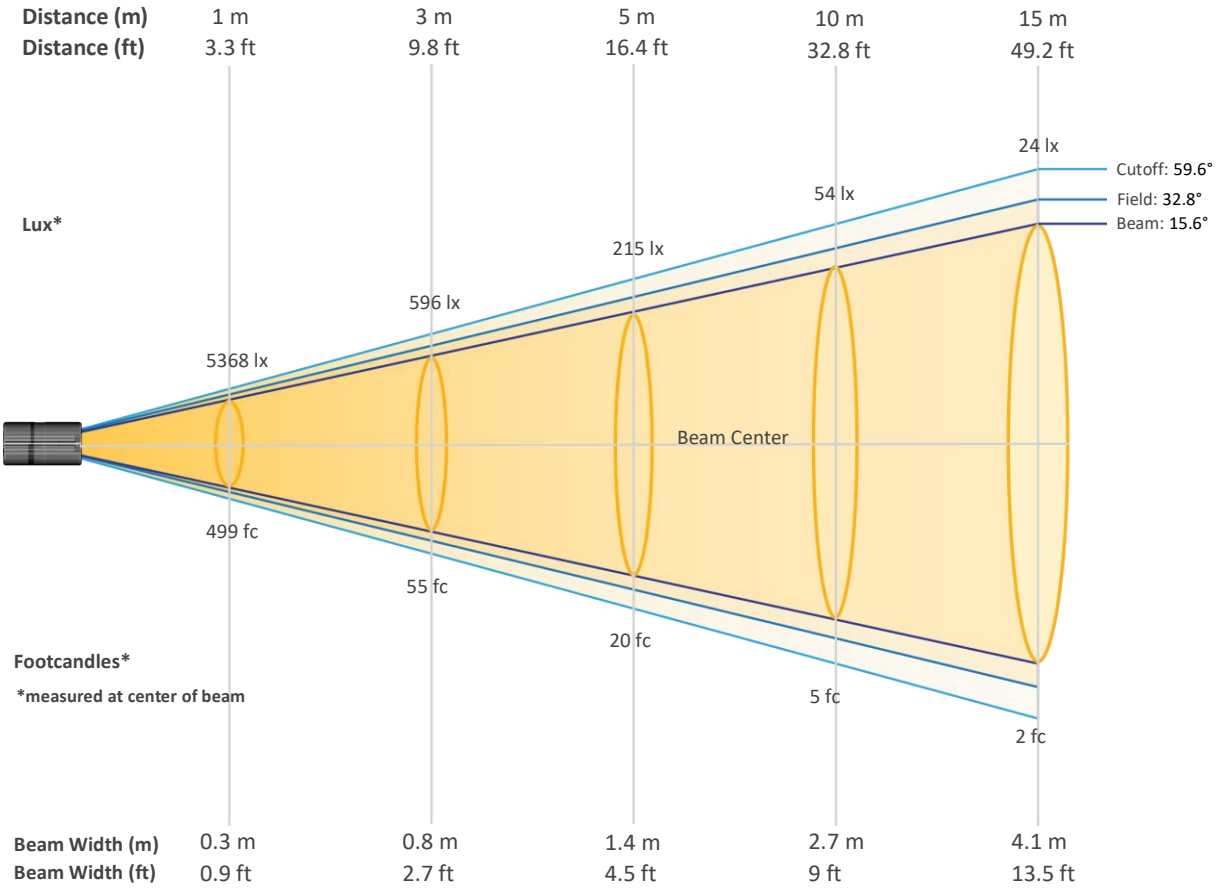
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-18hrs

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	5368	1342	596	335	215	149	110	84	66	54
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	44	37	32	27	24	21	19	17	15	13
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	499	125	55	31	20	14	10	8	6	5
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	4	3	3	3	2	2	2	2	1	1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-18hrs

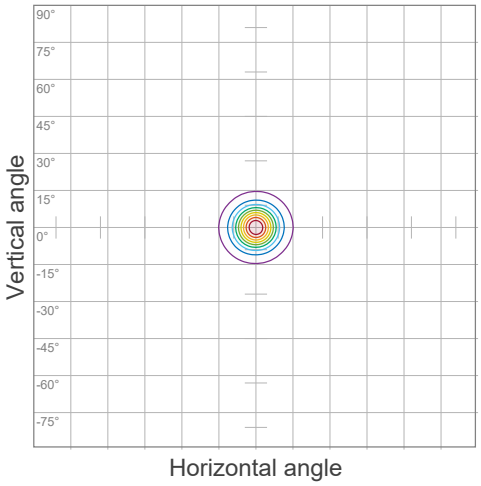
Candela Plot

Beam Angle (50%): 15.6°
Field Angle (10%): 32.8°
Cutoff Angle (3%): 59.6°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

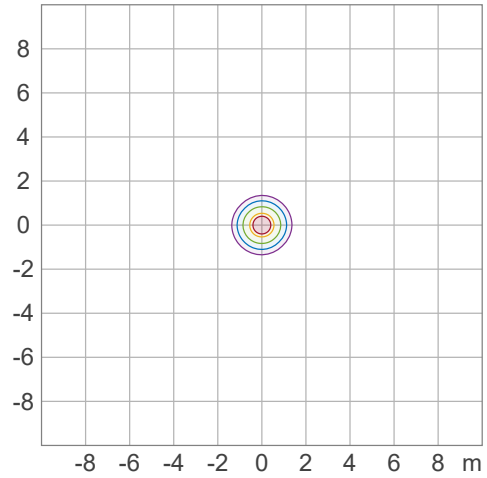
ISO Candela Diagram



90 %	4830.8 cd
80 %	4294.1 cd
70 %	3757.3 cd
60 %	3220.6 cd
50 %	2683.8 cd
40 %	2147.0 cd
30 %	1610.3 cd
20 %	1073.5 cd
10 %	536.8 cd

Peak intensity: 5367.6 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	298.2 lx
30.0 %	178.9 lx
10.0 %	59.6 lx
5.0 %	29.8 lx
3.0 %	17.9 lx

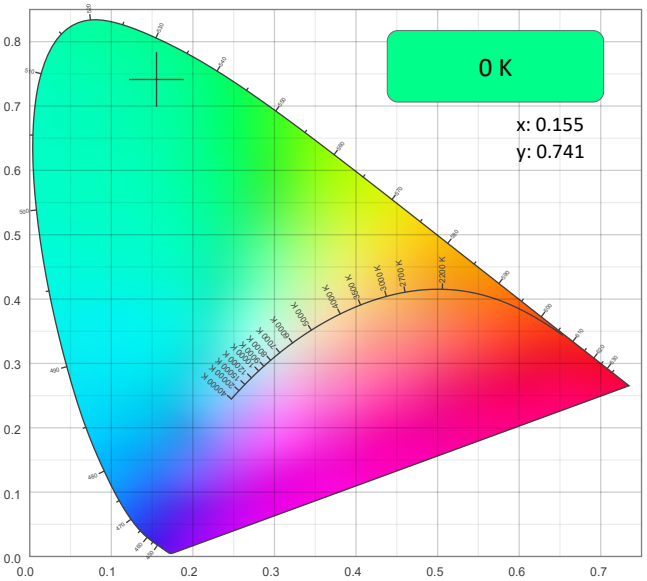
Peak illuminance: 596.4 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

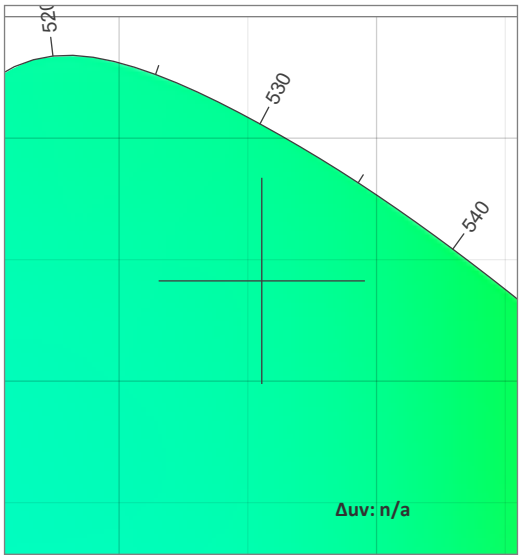
Well Batten 14: Standard Optics - Green-18hrs

Chromaticity

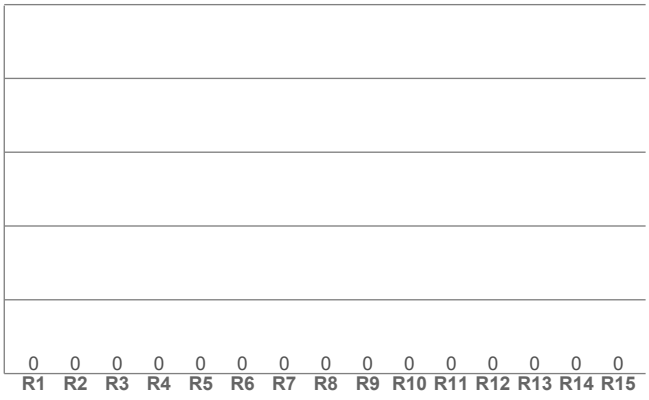
CIE 1931



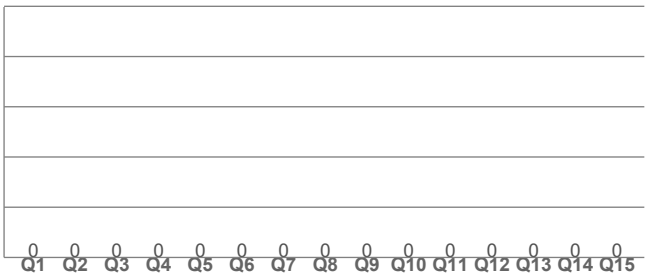
CIE 1931 - Zoom



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	0.155	0.741

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.741	0.054

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-18hrs

TM-30 Details

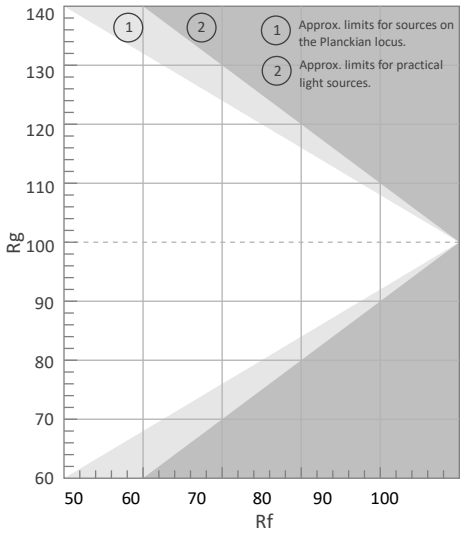
Rf 0.0

Fidelity Index (Rg)

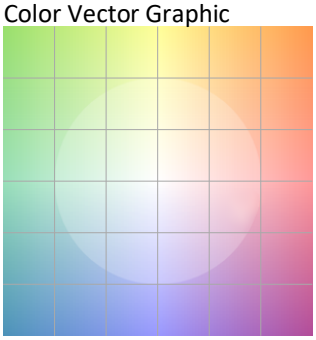
Rg 0.0

Gammut Index (Rg)

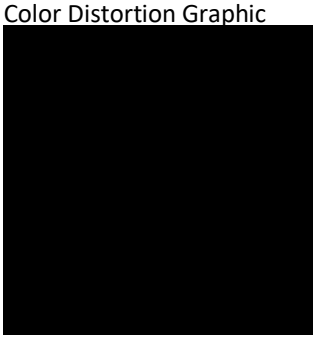
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



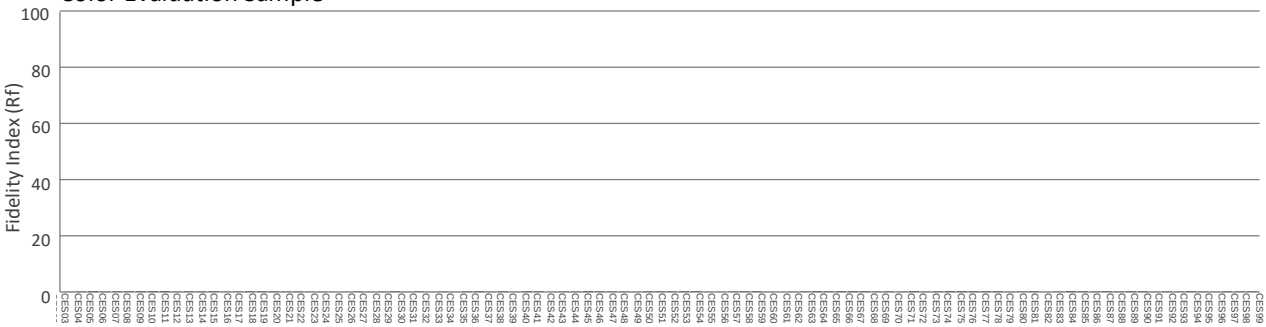
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-AC

Report Summary

Measurements

Fixture Output: 3316 lm
Fixture Peak: 23894 cd
Fixture Efficacy: 65 lm/W
Intensity @ 5m: 956 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 15.5°
Field Angle (10%): 32.6°
Cutoff Angle (3%): 59.4°

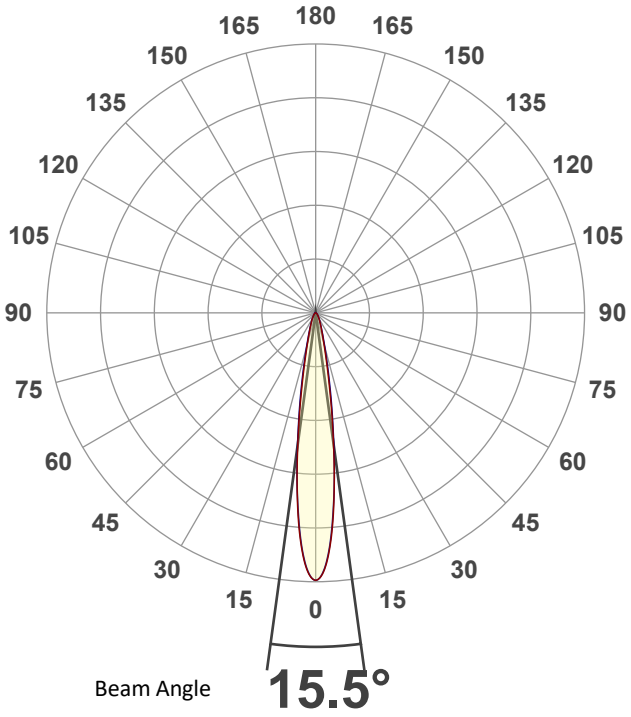
Conditions

AC Supply: 119 V, 60 Hz
Power: 50.98 W
Current: 0.428 A
Power Factor: 0.99

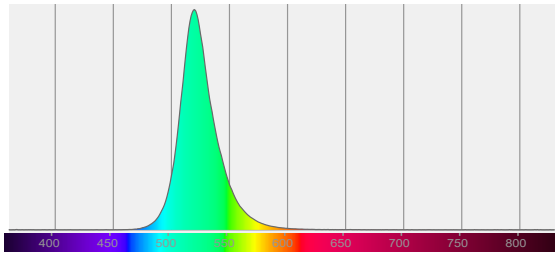
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.160
Y: 0.739

Light Quality

CRI: 0.0

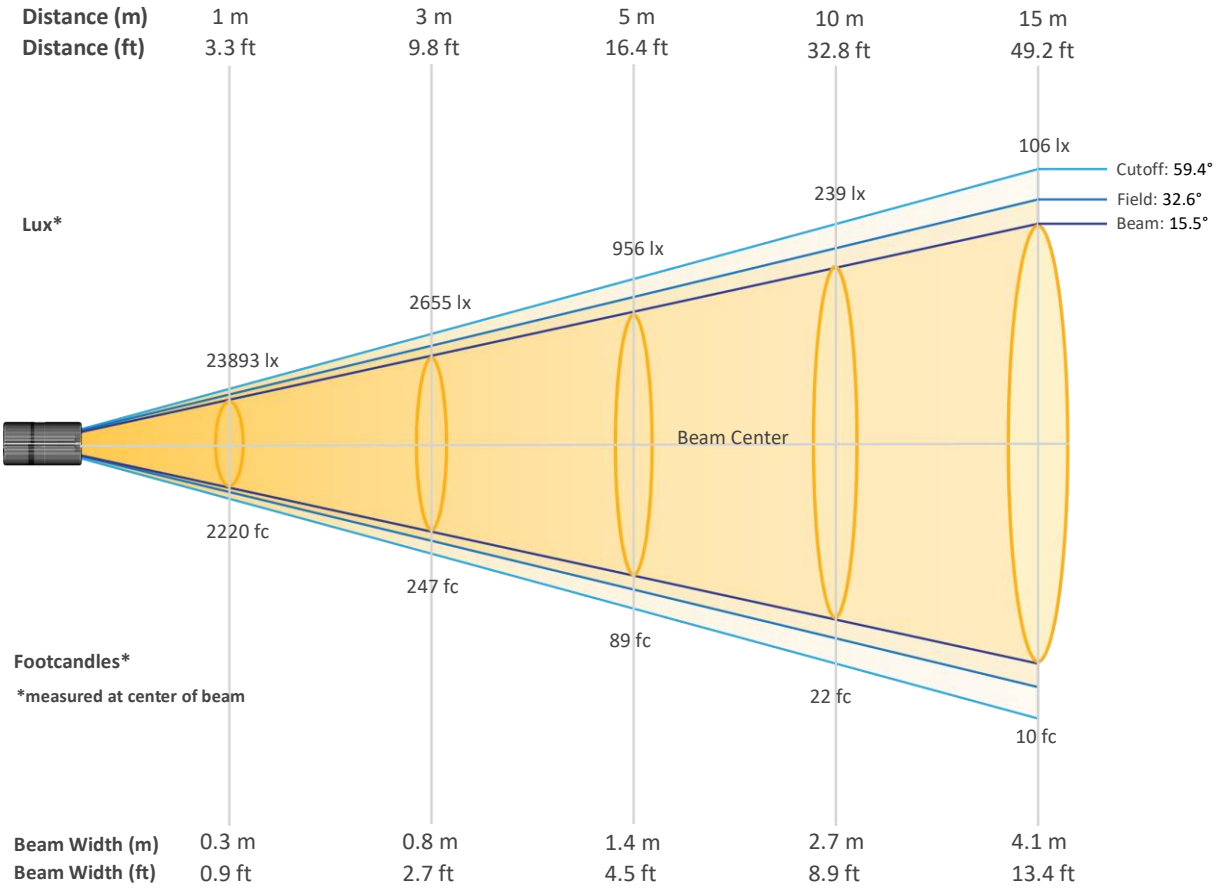
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-AC

Beam Details

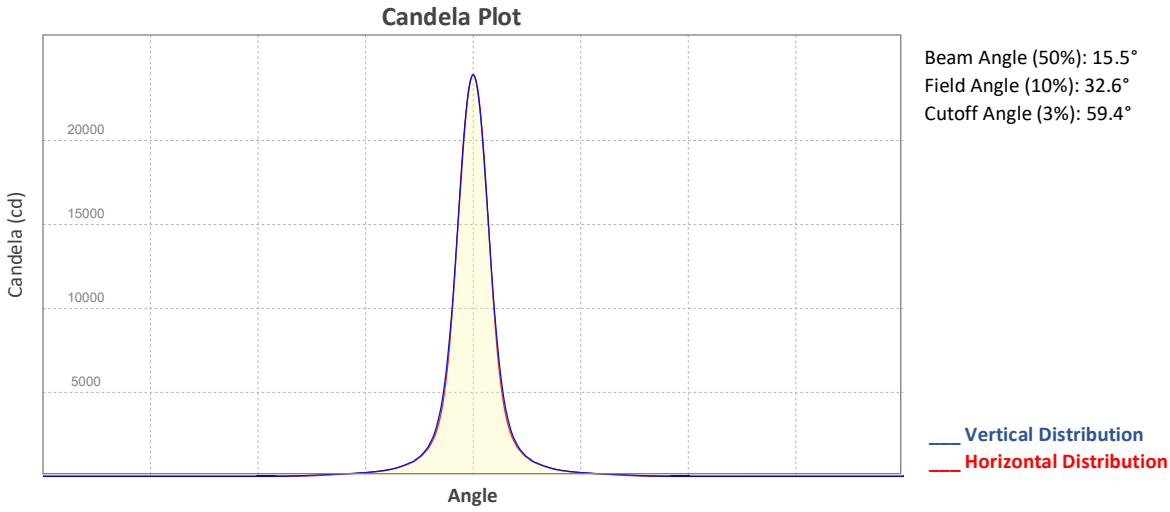


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	23893	5973	2655	1493	956	664	488	373	295	239
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	197	166	141	122	106	93	83	74	66	60
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2220	555	247	139	89	62	45	35	27	22
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	18	15	13	11	10	9	8	7	6	6

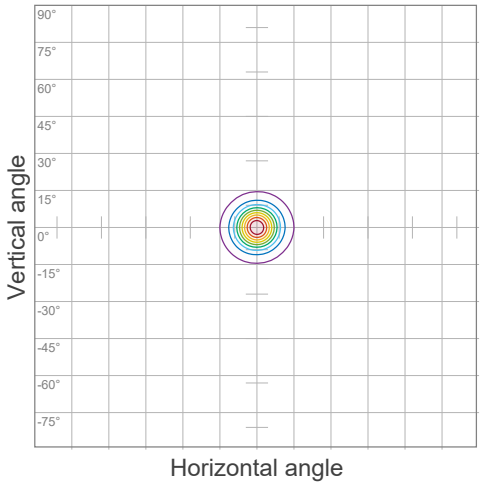
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-AC



ISO Diagrams

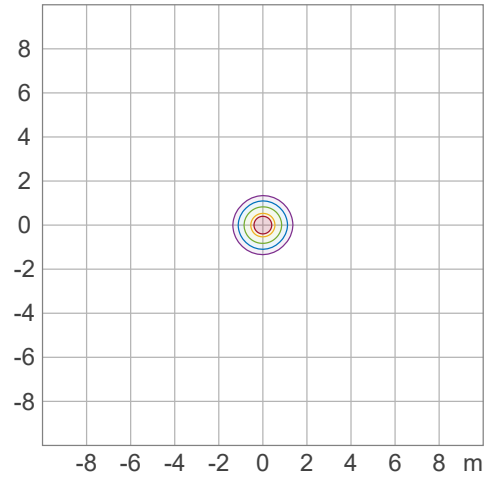
ISO Candela Diagram



90 %	21503.3 cd
80 %	19114.1 cd
70 %	16724.8 cd
60 %	14335.5 cd
50 %	11946.3 cd
40 %	9557.0 cd
30 %	7167.8 cd
20 %	4778.5 cd
10 %	2389.3 cd

Peak intensity: 23892.6 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1327.4 lx
30.0 %	796.4 lx
10.0 %	265.5 lx
5.0 %	132.7 lx
3.0 %	79.6 lx

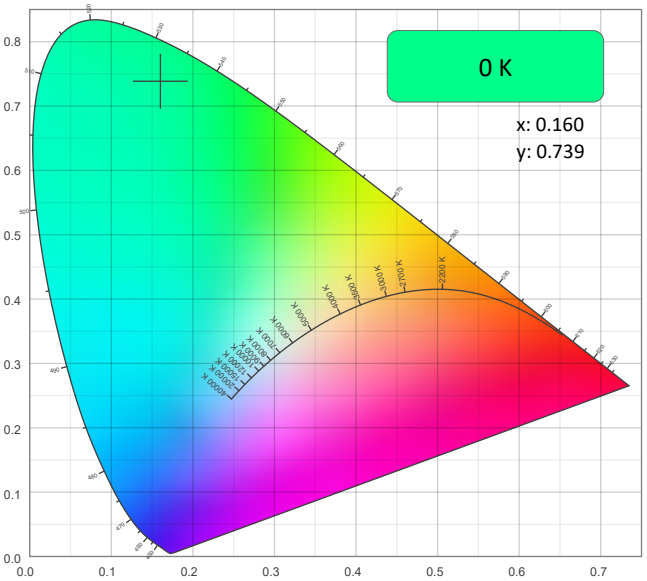
Peak illuminance: 2654.7 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

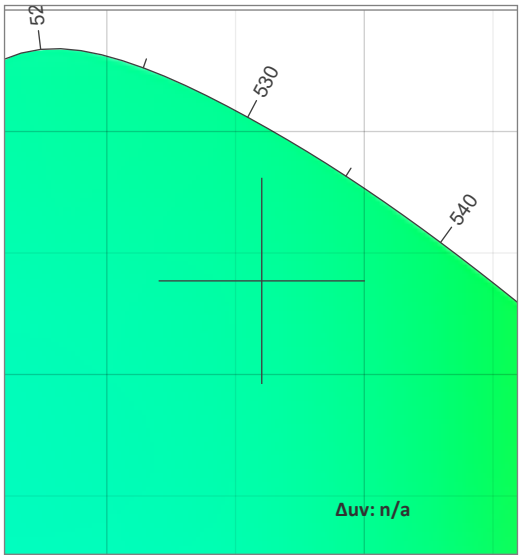
Well Batten 14: Standard Optics - Green-AC

Chromaticity

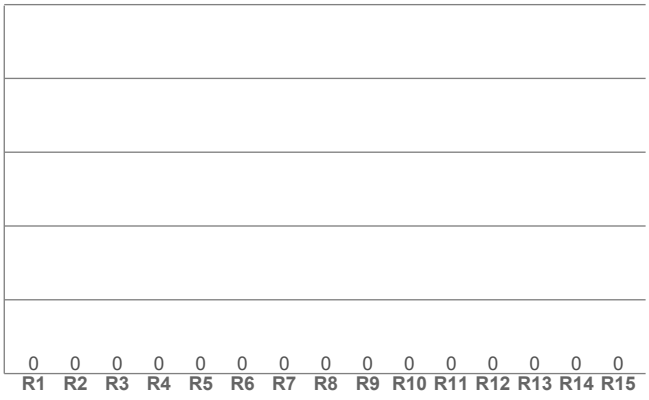
CIE 1931



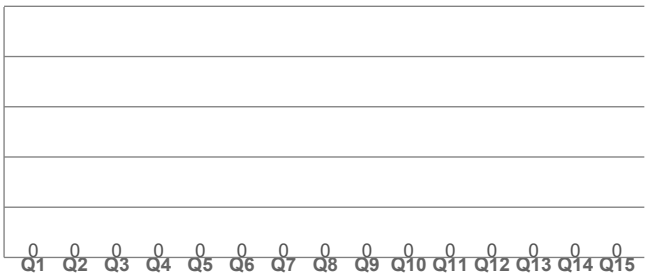
CIE 1931 - Zoom



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	0.160	0.739

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.739	0.056

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-AC

TM-30 Details

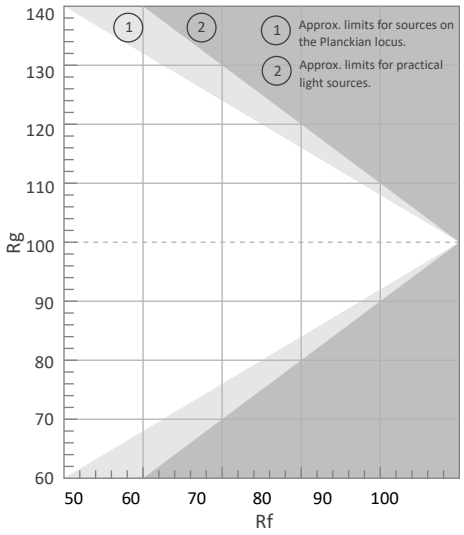
Rf 0.0

Fidelity Index (Rg)

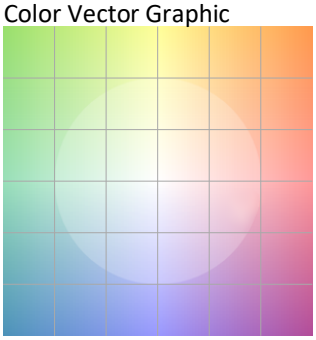
Rg 0.0

Gammut Index (Rg)

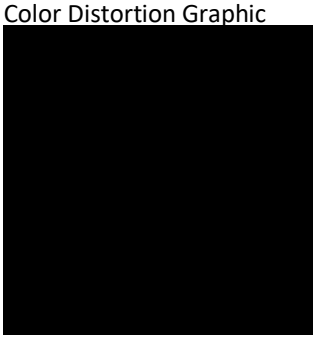
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



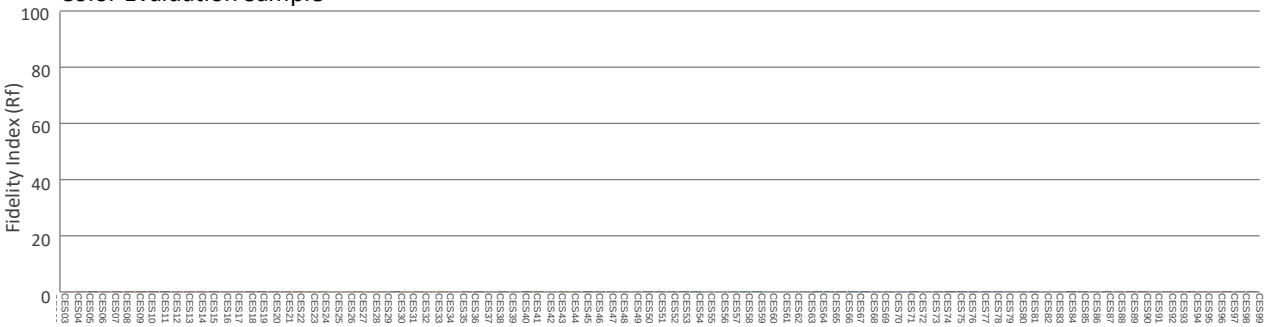
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-Off

Report Summary

Measurements

Fixture Output: 2967 lm
Fixture Peak: 21230 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 849 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 15.6°
Field Angle (10%): 32.7°
Cutoff Angle (3%): 59.6°

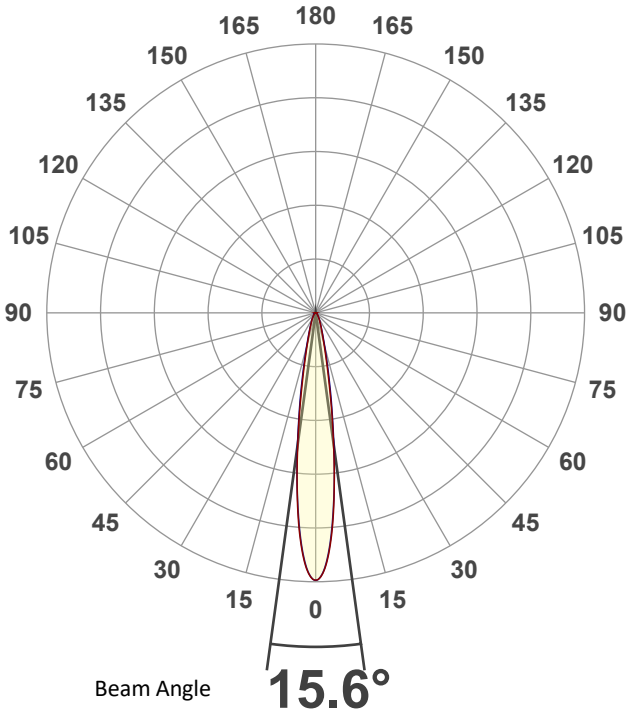
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

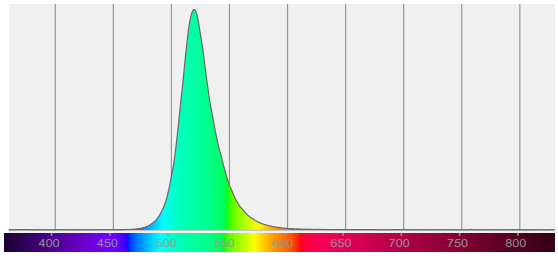
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.159
Y: 0.739

Light Quality

CRI: 0.0

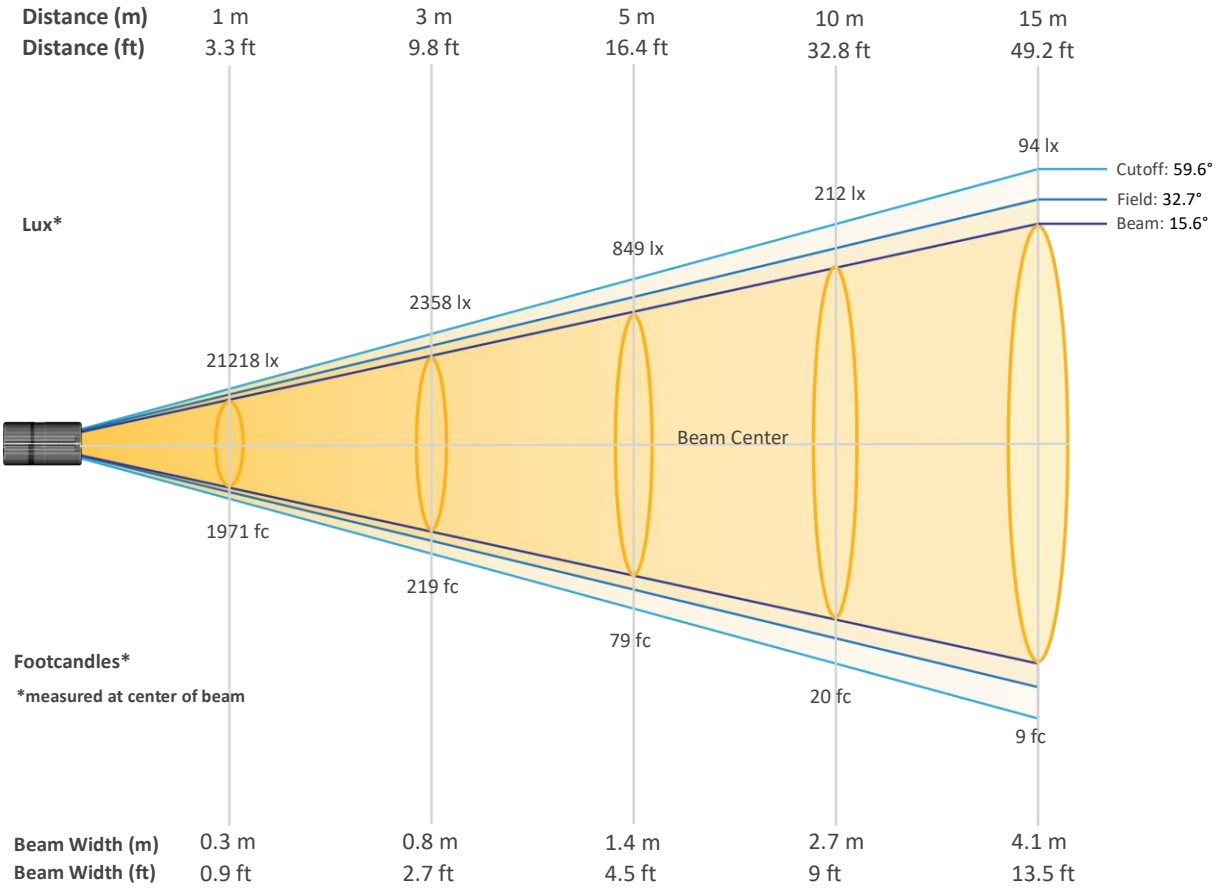
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-Off

Beam Details

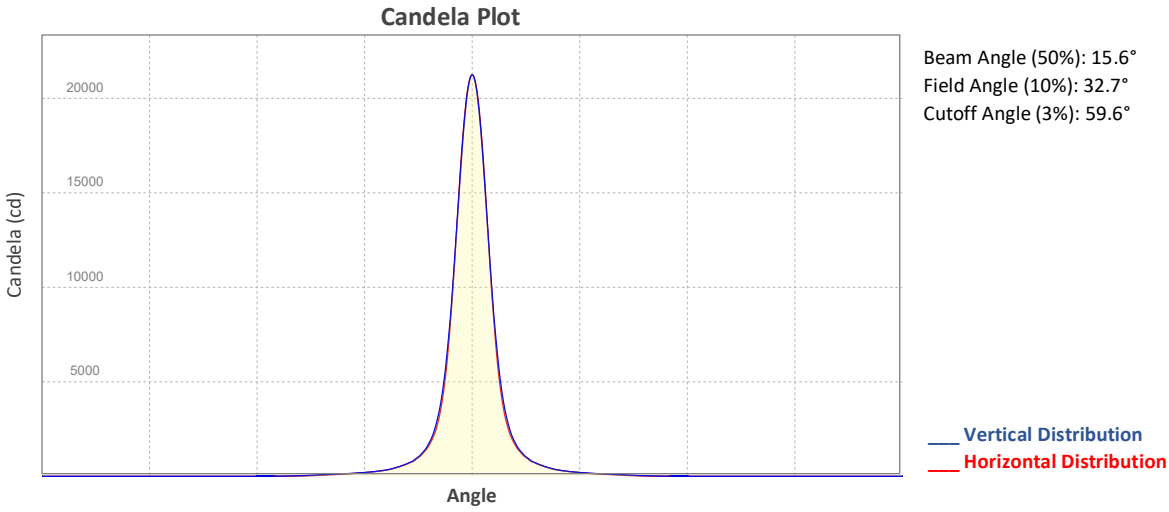


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	21218	5304	2358	1326	849	589	433	332	262	212
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	175	147	126	108	94	83	73	65	59	53
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1971	493	219	123	79	55	40	31	24	20
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	16	14	12	10	9	8	7	6	5	5

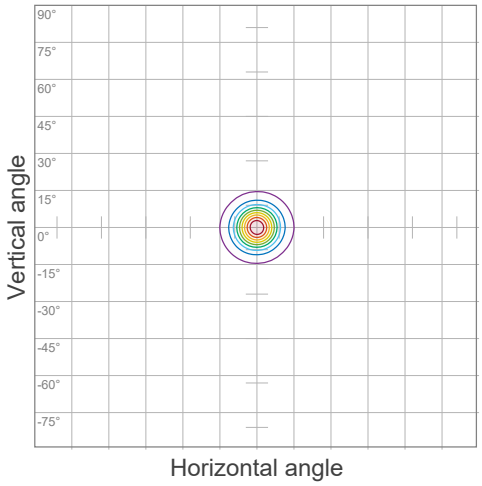
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-Off



ISO Diagrams

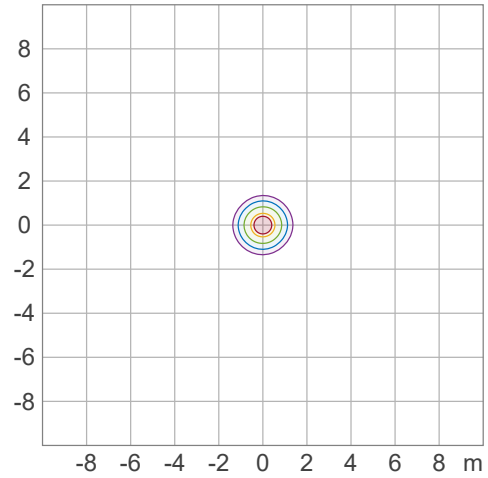
ISO Candela Diagram



90 %	19096.0 cd
80 %	16974.3 cd
70 %	14852.5 cd
60 %	12730.7 cd
50 %	10608.9 cd
40 %	8487.1 cd
30 %	6365.3 cd
20 %	4243.6 cd
10 %	2121.8 cd

Peak intensity: 21217.8 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1178.8 lx
30.0 %	707.3 lx
10.0 %	235.8 lx
5.0 %	117.9 lx
3.0 %	70.7 lx

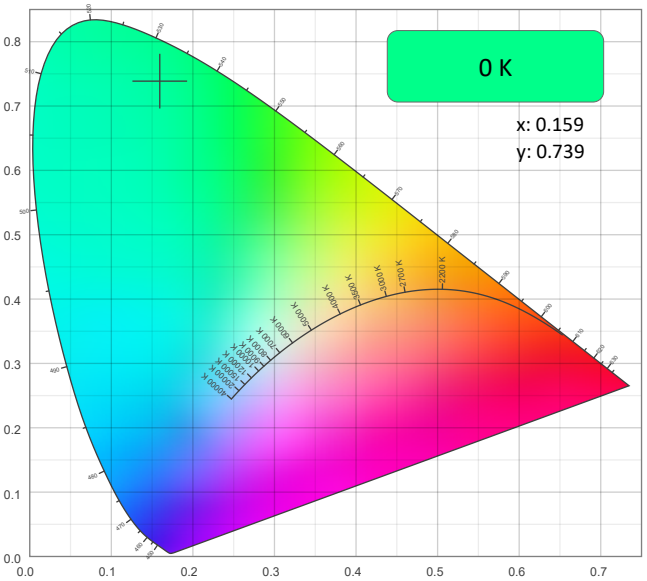
Peak illuminance: 2357.5 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

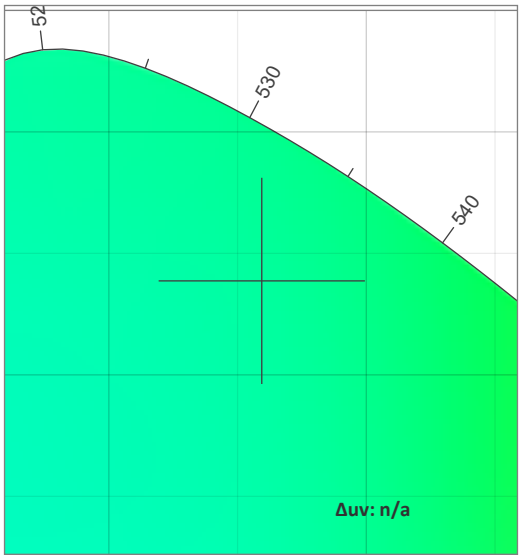
Well Batten 14: Standard Optics - Green-Off

Chromaticity

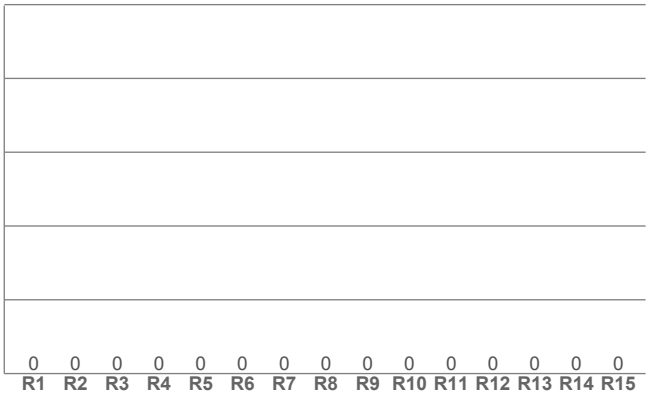
CIE 1931



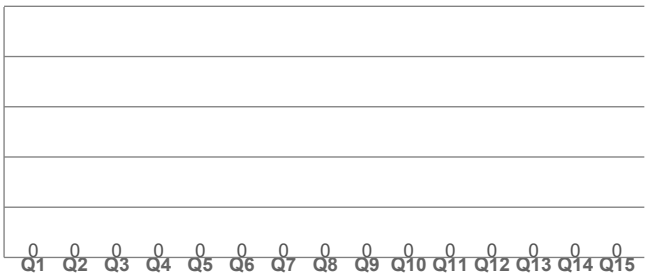
CIE 1931 - Zoom



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	0.159	0.739

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.739	0.055

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Green-Off

TM-30 Details

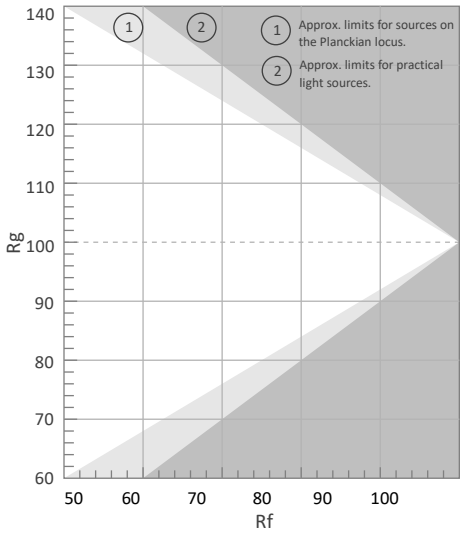
Rf 0.0

Fidelity Index (Rg)

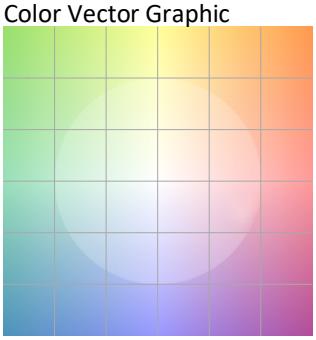
Rg 0.0

Gammut Index (Rg)

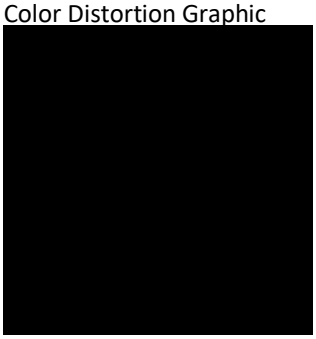
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



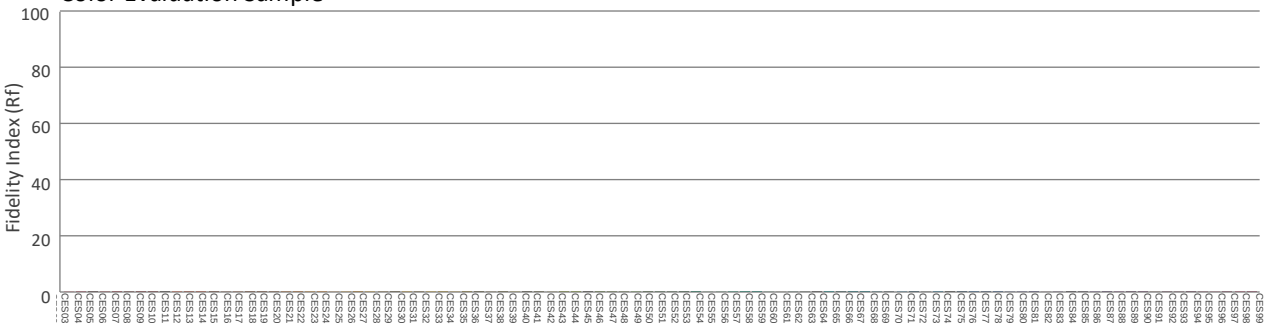
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-5hrs

Report Summary

Measurements

Fixture Output: 581 lm
Fixture Peak: 3215 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 128 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 18.3°
Field Angle (10%): 37°
Cutoff Angle (3%): 66.7°

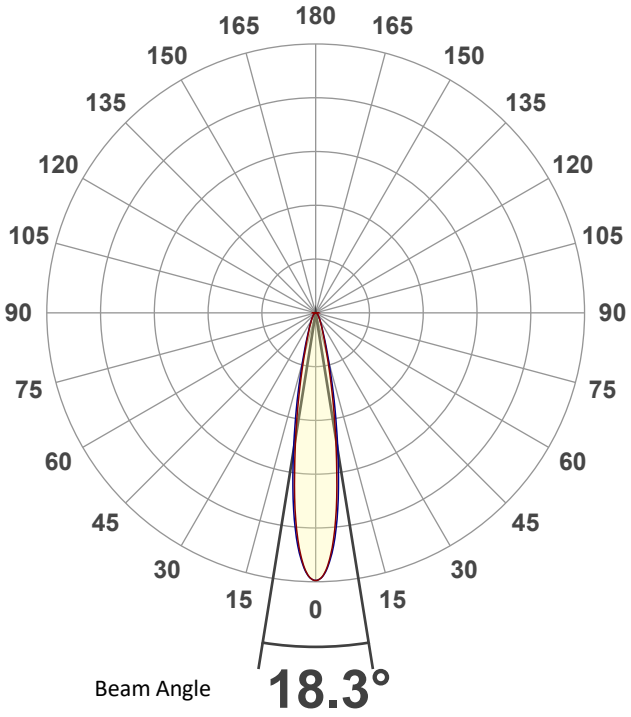
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

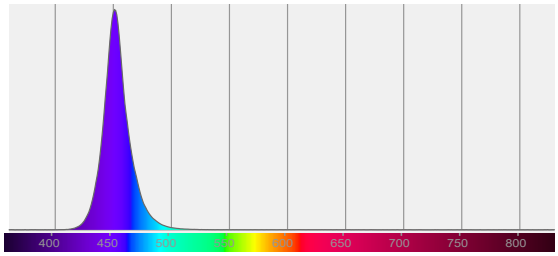
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.152
Y: 0.028

Light Quality

CRI: 0.0

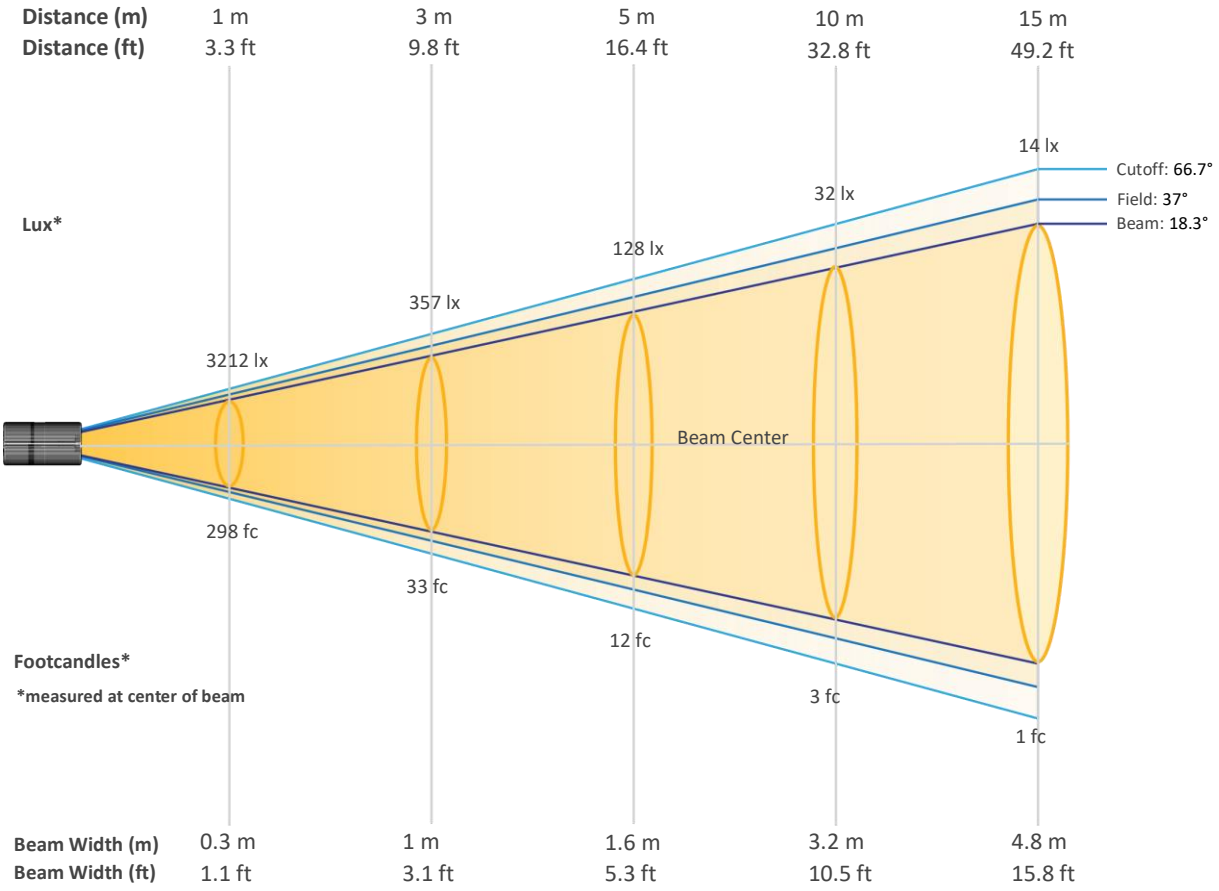
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-5hrs

Beam Details

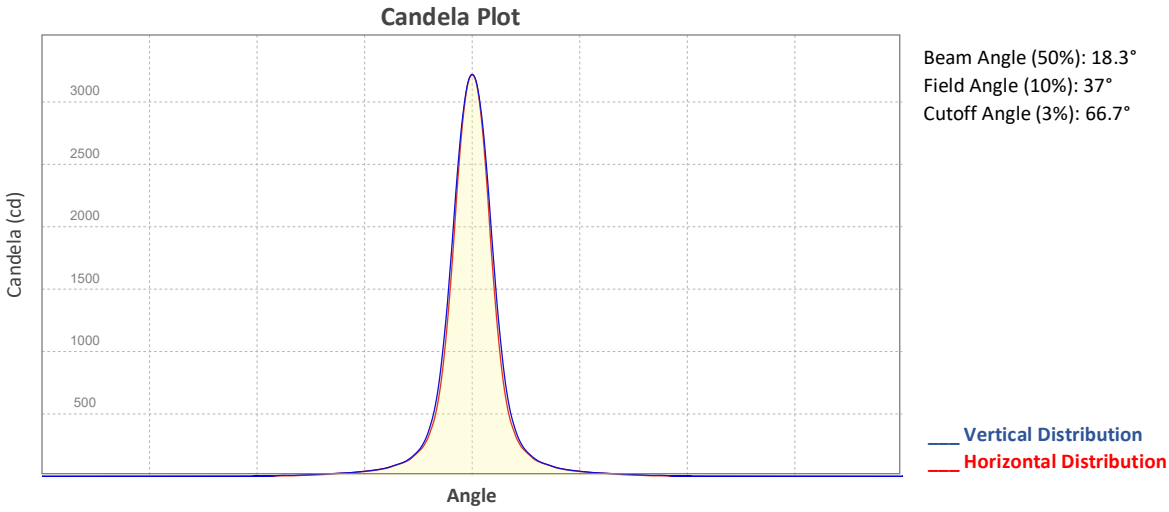


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3212	803	357	201	128	89	66	50	40	32
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	27	22	19	16	14	13	11	10	9	8
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	298	75	33	19	12	8	6	5	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	2	2	2	1	1	1	1	1	1

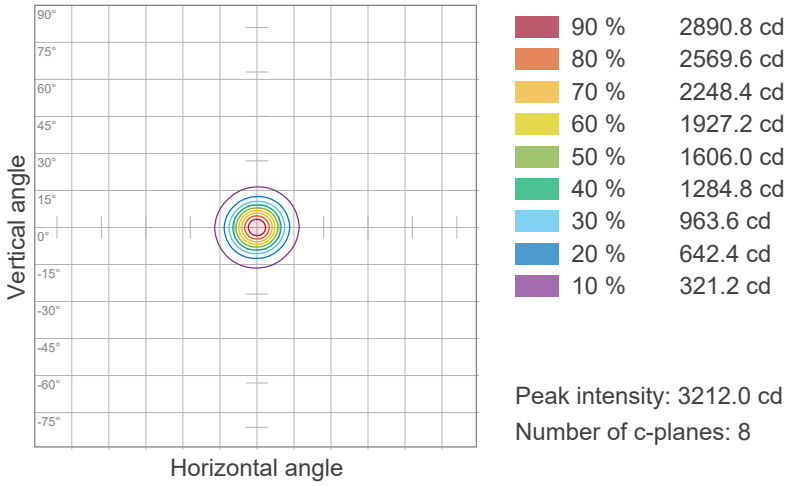
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-5hrs



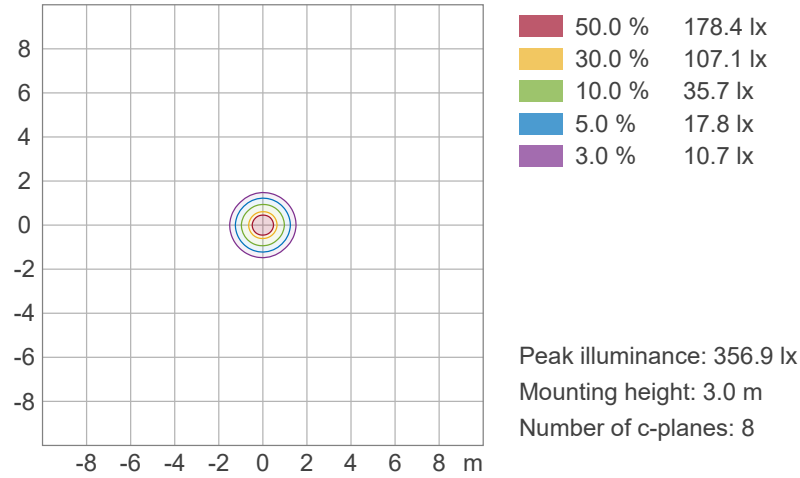
ISO Diagrams

ISO Candela Diagram



Peak intensity: 3212.0 cd
Number of c-planes: 8

ISO Lux Diagram



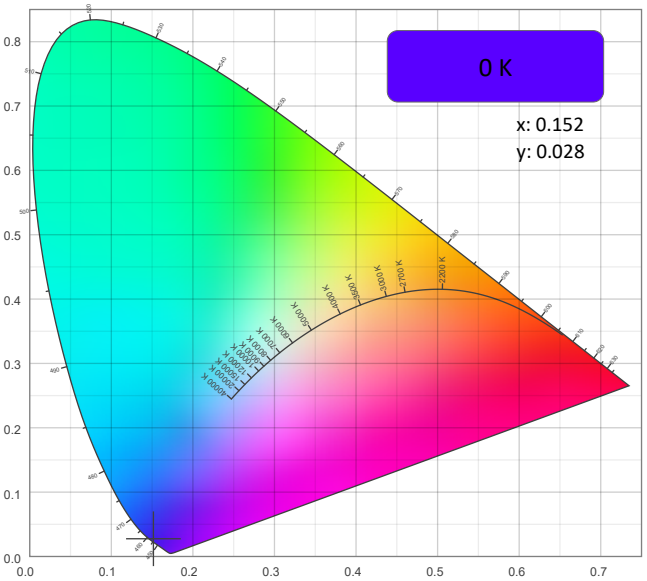
Peak illuminance: 356.9 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

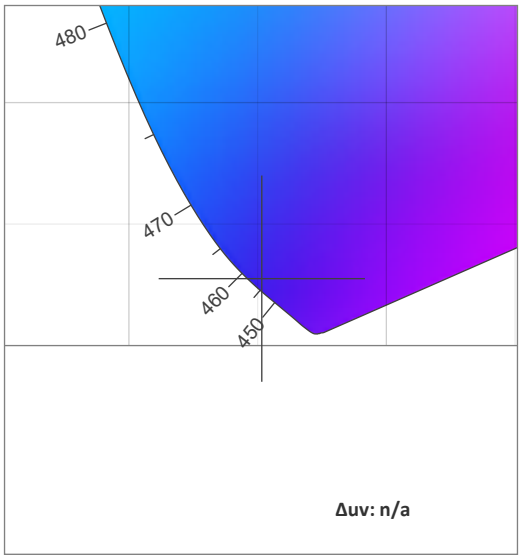
Well Batten 14: Standard Optics - Blue-5hrs

Chromaticity

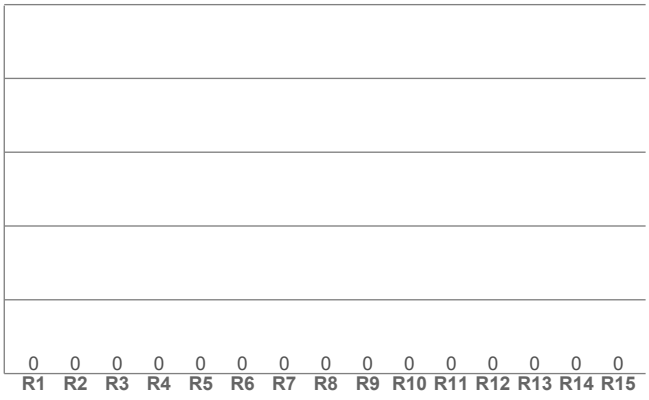
CIE 1931



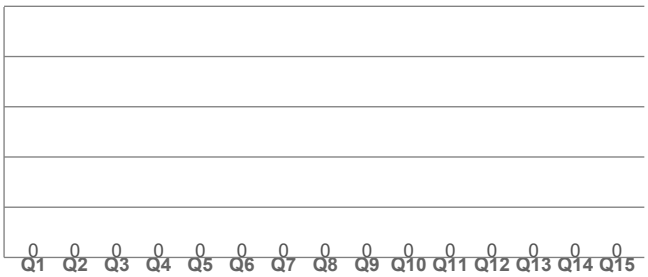
CIE 1931 - Zoom



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	0.152	0.028

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.028	0.200

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-5hrs

TM-30 Details

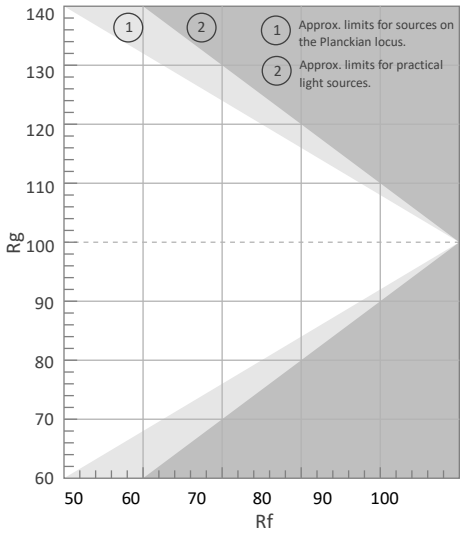
Rf 0.0

Fidelity Index (Rg)

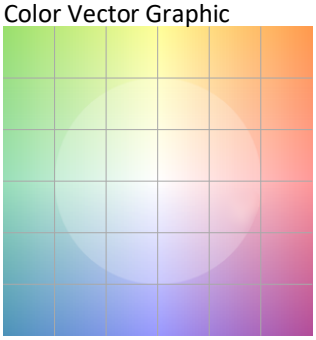
Rg 0.0

Gammut Index (Rg)

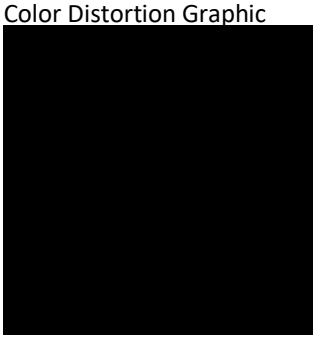
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



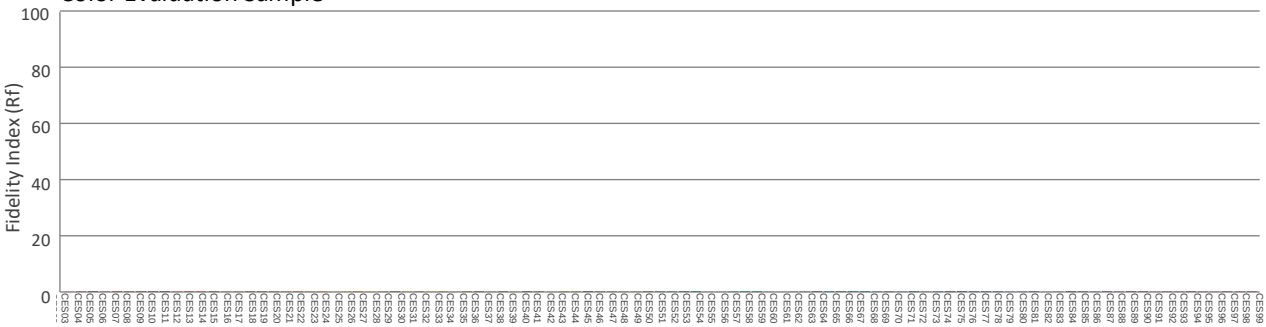
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-8hrs

Report Summary

Measurements

Fixture Output: 363 lm
Fixture Peak: 1986 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 79 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 18.3°
Field Angle (10%): 37.1°
Cutoff Angle (3%): 66.6°

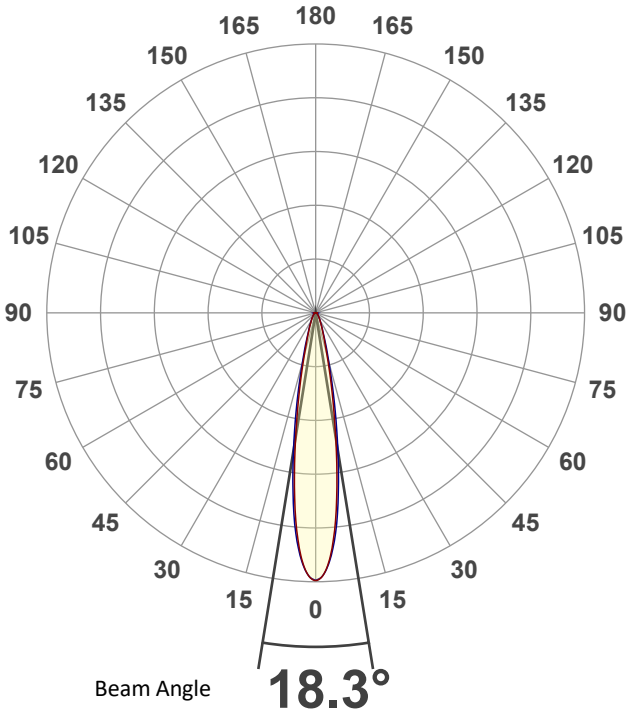
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

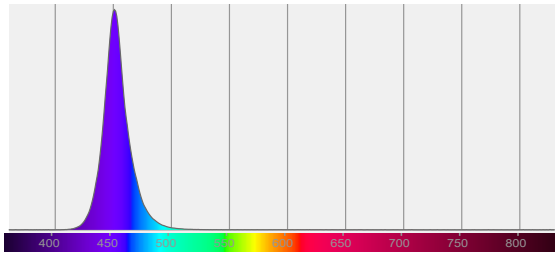
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.152
Y: 0.027

Light Quality

CRI: 0.0

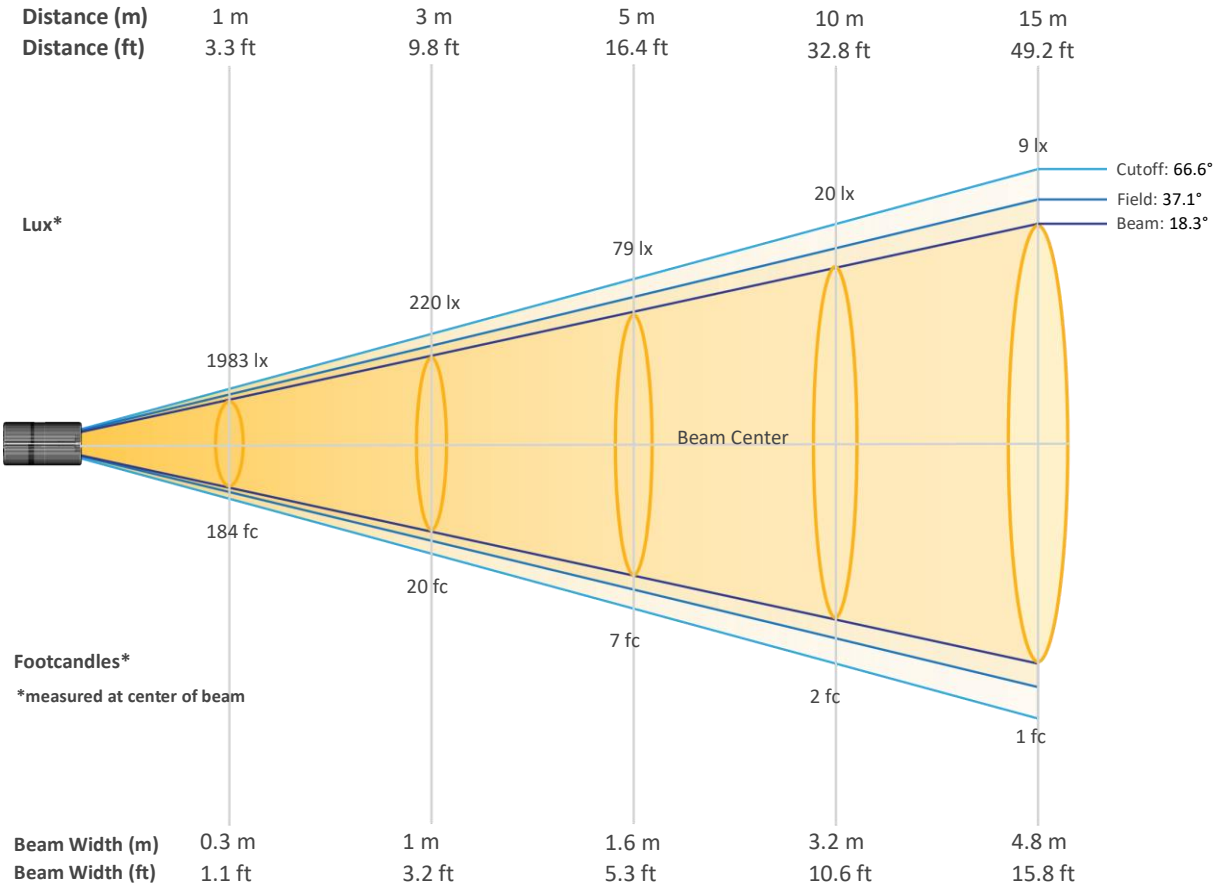
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-8hrs

Beam Details

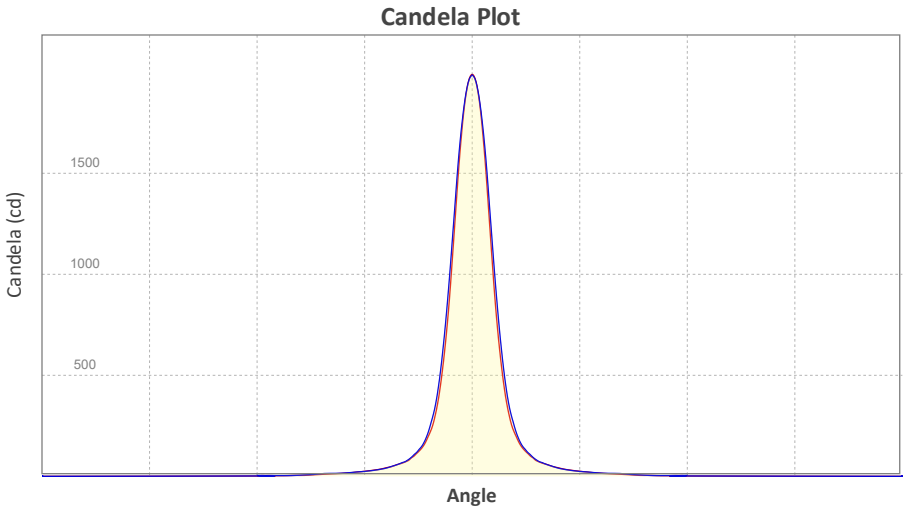


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1983	496	220	124	79	55	40	31	24	20
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	16	14	12	10	9	8	7	6	5	5
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	184	46	20	12	7	5	4	3	2	2
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	1	1	1	1	1	1	1	1	0

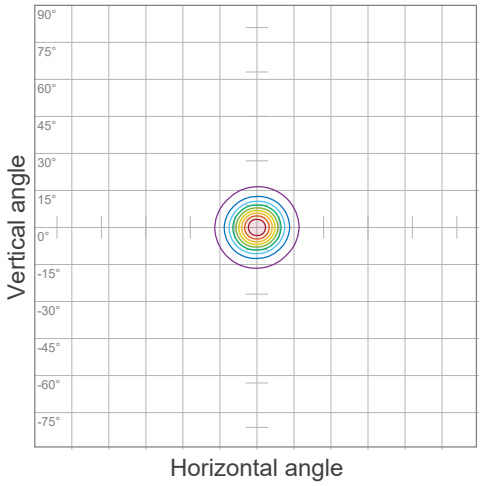
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-8hrs



ISO Diagrams

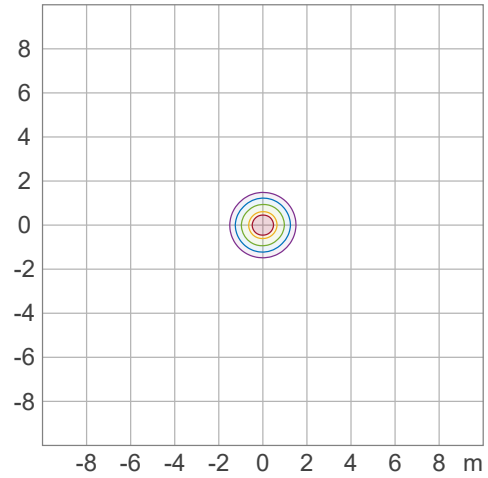
ISO Candela Diagram



90 %	1784.5 cd
80 %	1586.2 cd
70 %	1387.9 cd
60 %	1189.7 cd
50 %	991.4 cd
40 %	793.1 cd
30 %	594.8 cd
20 %	396.6 cd
10 %	198.3 cd

Peak intensity: 1982.8 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	110.2 lx
30.0 %	66.1 lx
10.0 %	22.0 lx
5.0 %	11.0 lx
3.0 %	6.6 lx

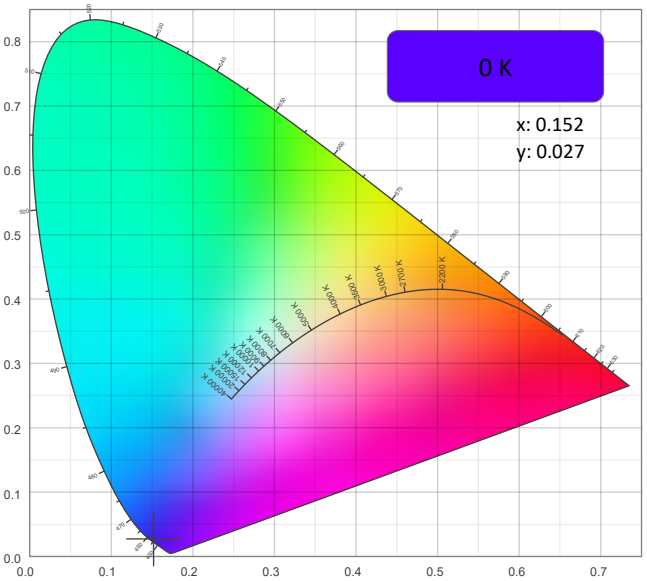
Peak illuminance: 220.3 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

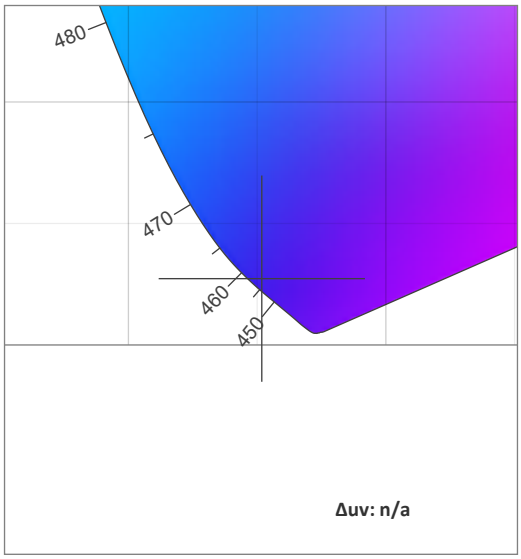
Well Batten 14: Standard Optics - Blue-8hrs

Chromaticity

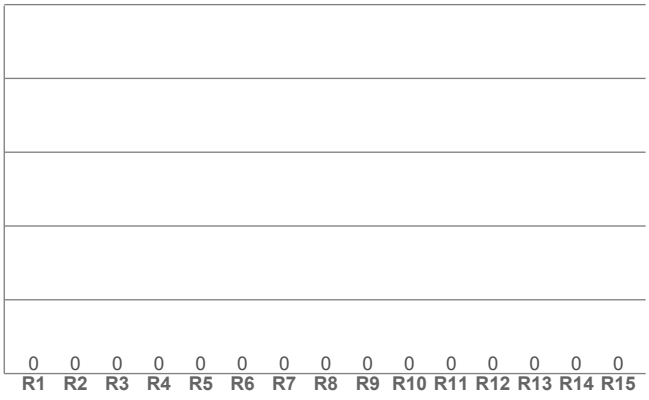
CIE 1931



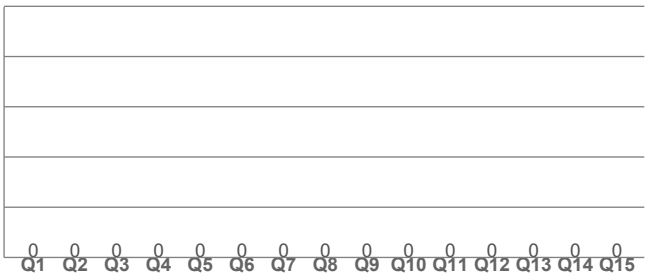
CIE 1931 - Zoom



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	0.152	0.027

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.027	0.201

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-8hrs

TM-30 Details

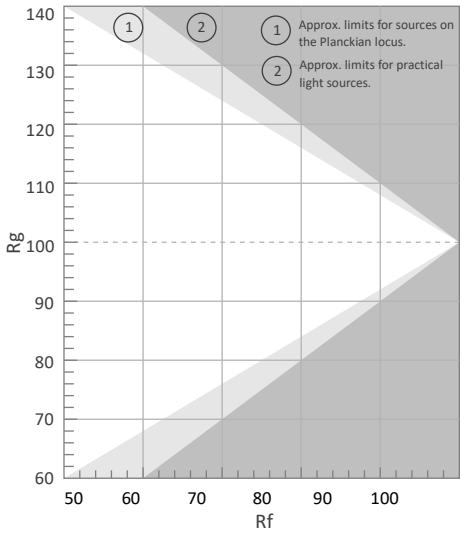
Rf 0.0

Fidelity Index (Rg)

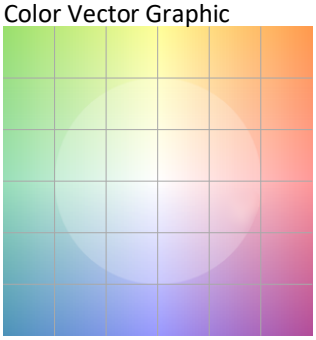
Rg 0.0

Gammut Index (Rg)

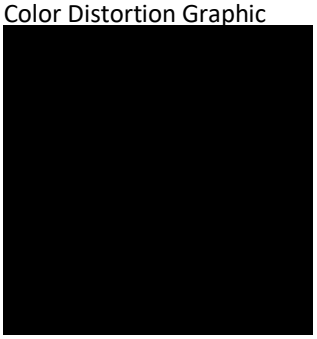
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



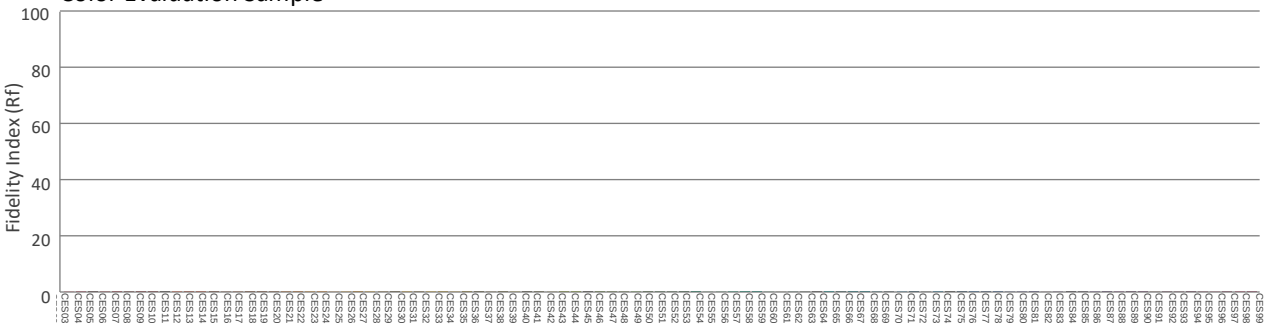
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-12hrs

Report Summary

Measurements

Fixture Output: 228 lm
Fixture Peak: 1236 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 49 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 18.3°
Field Angle (10%): 37.1°
Cutoff Angle (3%): 66°

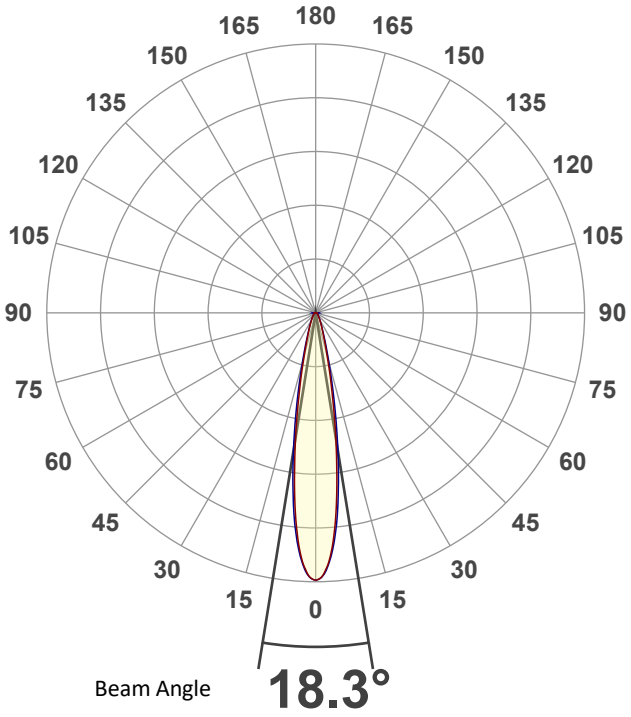
Conditions

AC Supply: 121 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

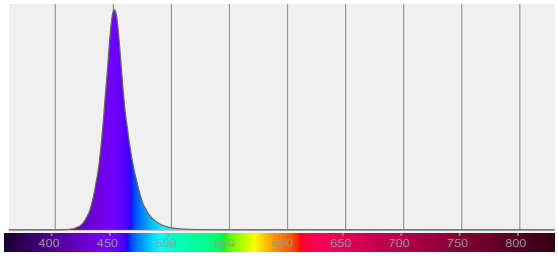
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.152
Y: 0.027

Light Quality

CRI: 0.0

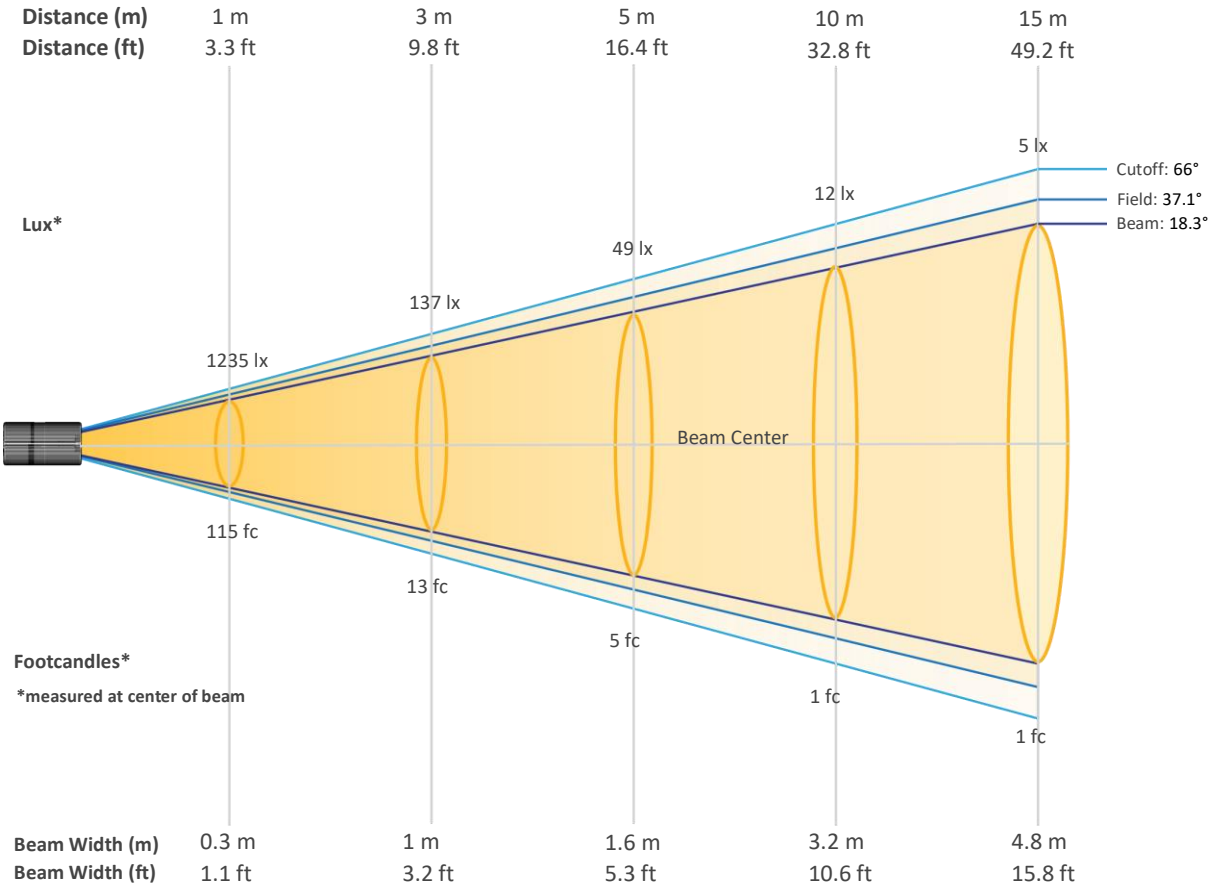
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-12hrs

Beam Details

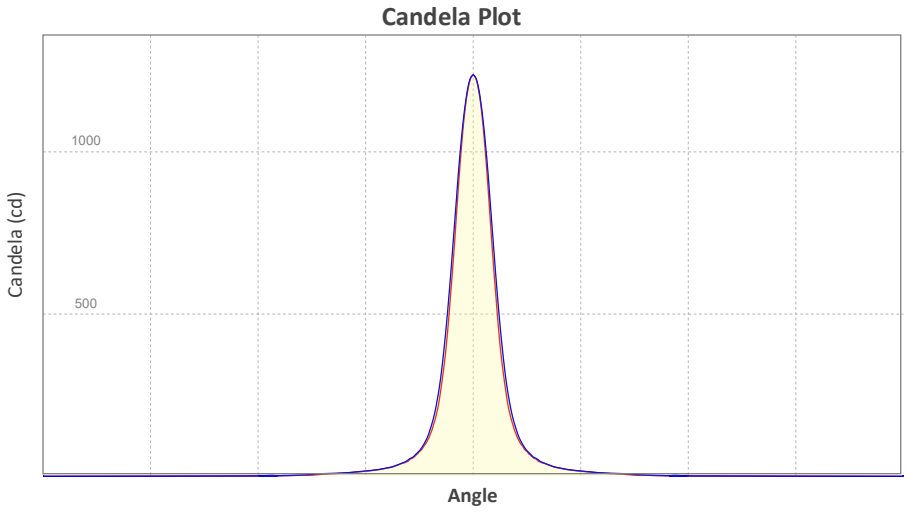


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1235	309	137	77	49	34	25	19	15	12
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	10	9	7	6	5	5	4	4	3	3
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	115	29	13	7	5	3	2	2	1	1
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	1	1	1	1	1	0	0	0	0	0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-12hrs

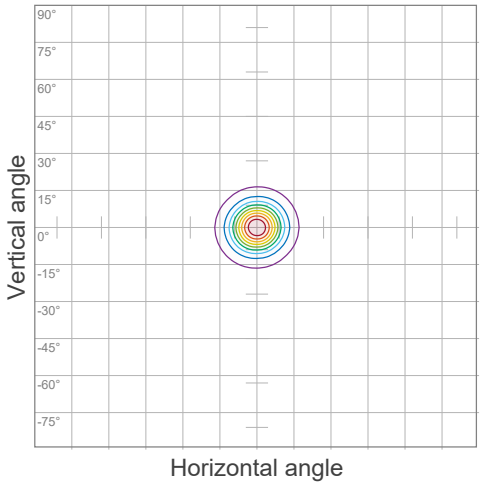


Beam Angle (50%): 18.3°
Field Angle (10%): 37.1°
Cutoff Angle (3%): 66°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

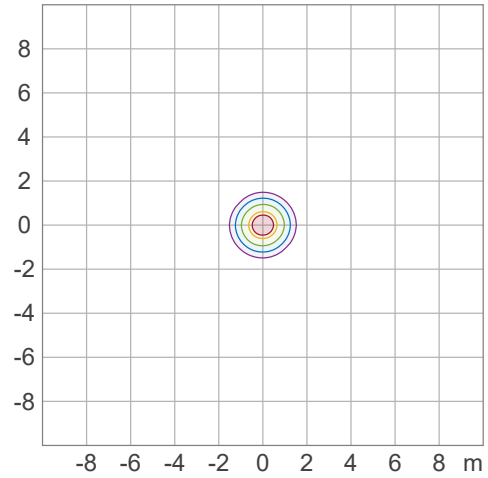
ISO Candela Diagram



90 %	1111.6 cd
80 %	988.1 cd
70 %	864.5 cd
60 %	741.0 cd
50 %	617.5 cd
40 %	494.0 cd
30 %	370.5 cd
20 %	247.0 cd
10 %	123.5 cd

Peak intensity: 1235.1 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	68.6 lx
30.0 %	41.2 lx
10.0 %	13.7 lx
5.0 %	6.9 lx
3.0 %	4.1 lx

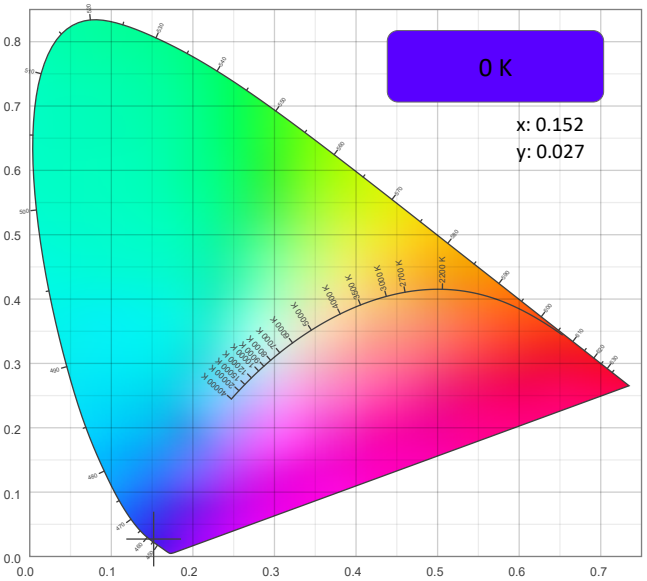
Peak illuminance: 137.2 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

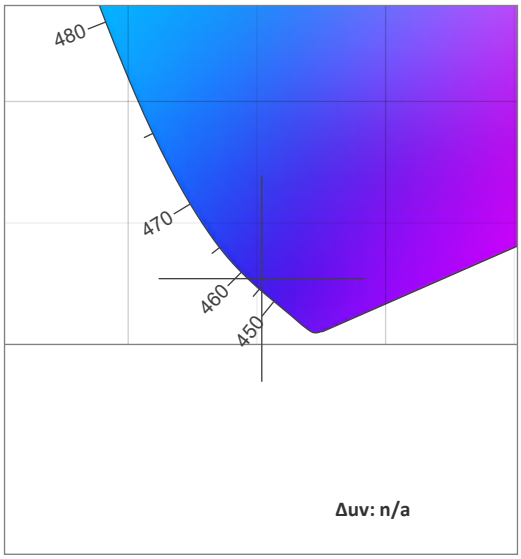
Well Batten 14: Standard Optics - Blue-12hrs

Chromaticity

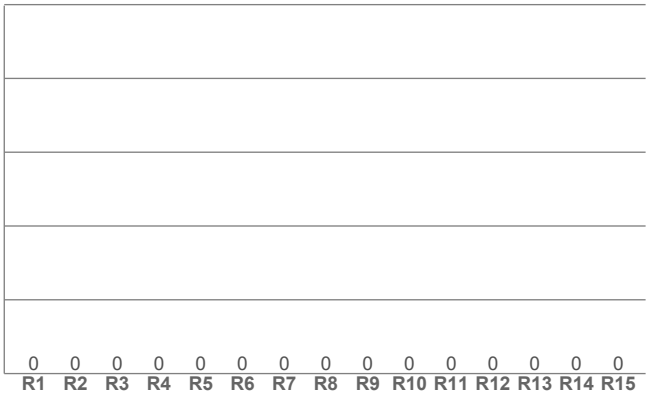
CIE 1931



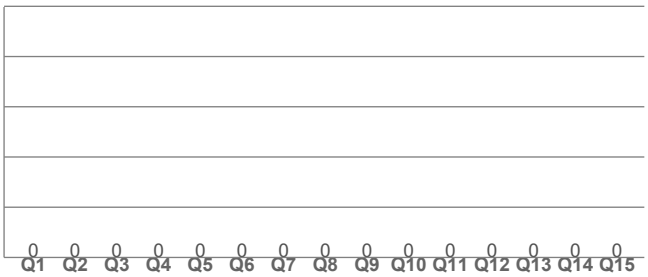
CIE 1931 - Zoom



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	0.152	0.027

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.027	0.201

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-12hrs

TM-30 Details

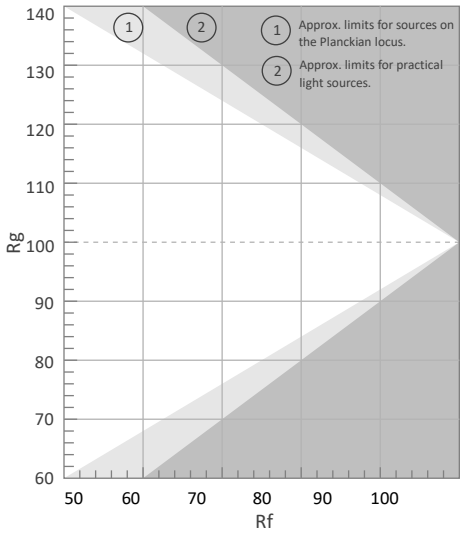
Rf 0.0

Fidelity Index (Rg)

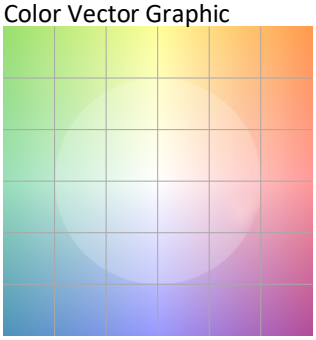
Rg 0.0

Gammut Index (Rg)

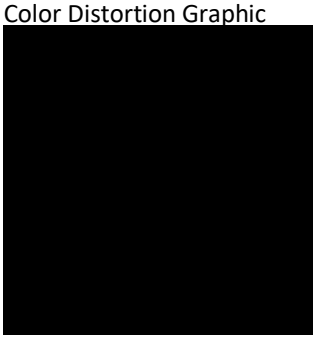
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



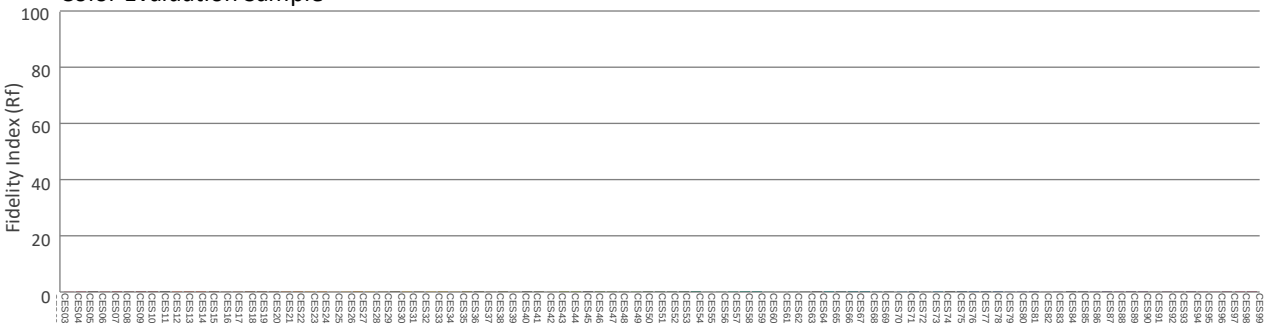
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-18hrs

Report Summary

Measurements

Fixture Output: 151 lm
Fixture Peak: 763 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 30 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 18.3°
Field Angle (10%): 37.2°
Cutoff Angle (3%): 69.2°

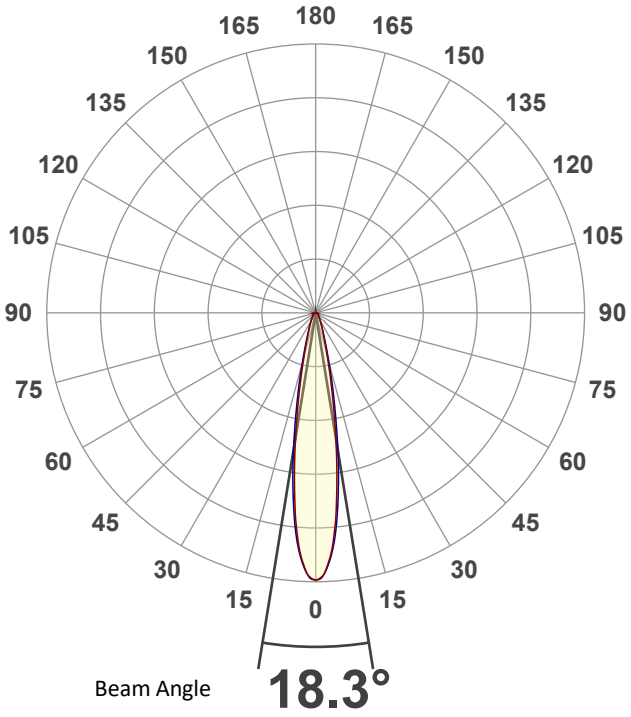
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

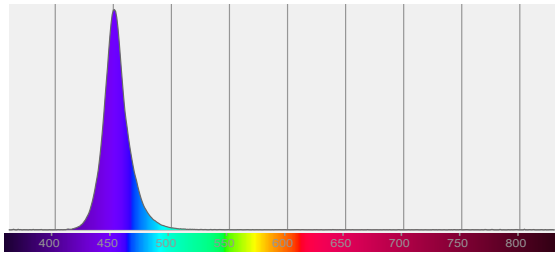
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.152
Y: 0.027

Light Quality

CRI: 0.0

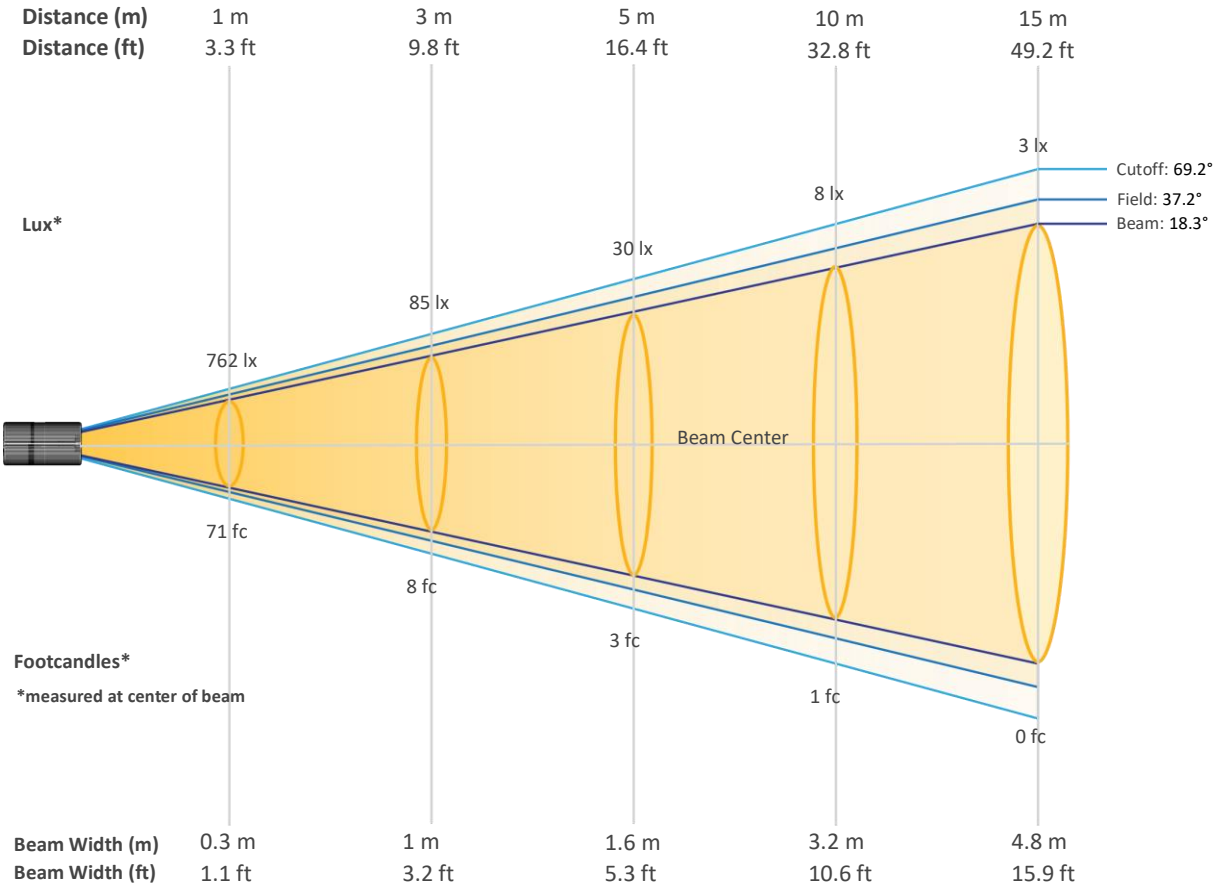
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-18hrs

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	762	191	85	48	30	21	16	12	9	8
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	6	5	5	4	3	3	3	2	2	2
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	71	18	8	4	3	2	1	1	1	1
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	1	0	0	0	0	0	0	0	0	0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-18hrs

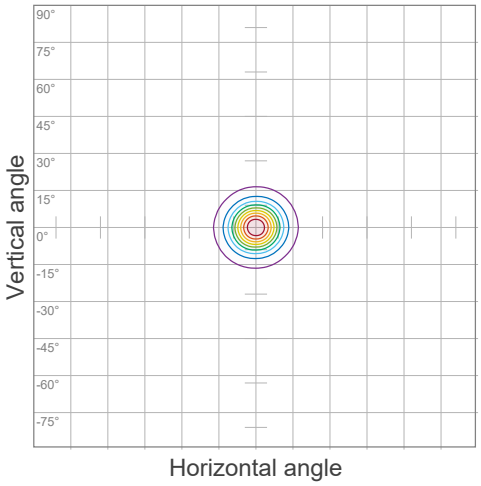
Candela Plot

Beam Angle (50%): 18.3°
Field Angle (10%): 37.2°
Cutoff Angle (3%): 69.2°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

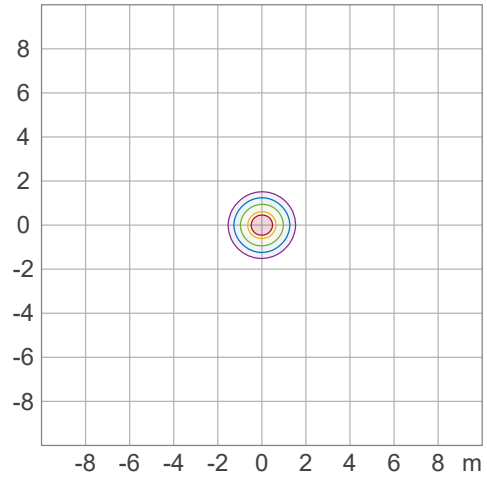
ISO Candela Diagram



90 %	685.9 cd
80 %	609.7 cd
70 %	533.5 cd
60 %	457.3 cd
50 %	381.1 cd
40 %	304.8 cd
30 %	228.6 cd
20 %	152.4 cd
10 %	76.2 cd

Peak intensity: 762.1 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	42.3 lx
30.0 %	25.4 lx
10.0 %	8.5 lx
5.0 %	4.2 lx
3.0 %	2.5 lx

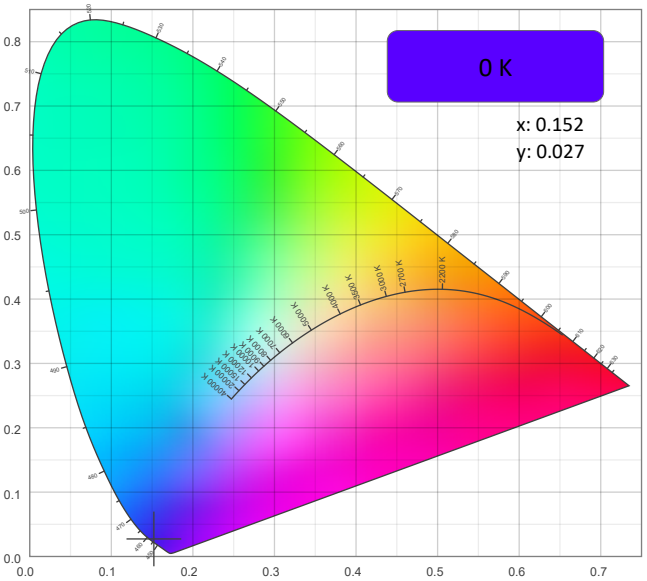
Peak illuminance: 84.7 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

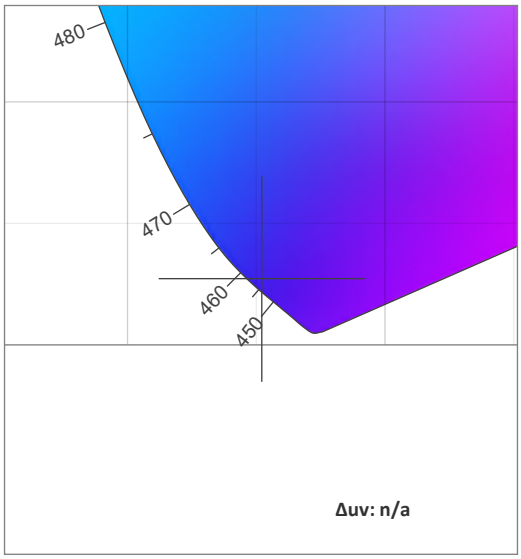
Well Batten 14: Standard Optics - Blue-18hrs

Chromaticity

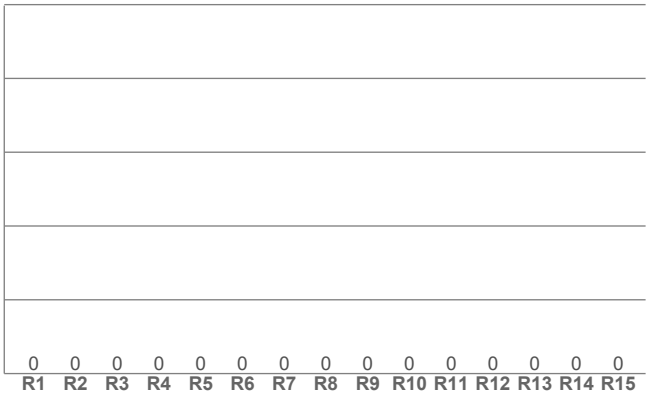
CIE 1931



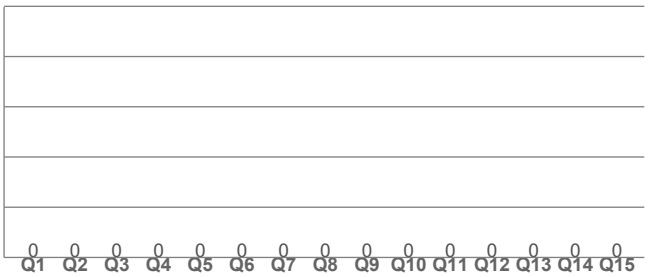
CIE 1931 - Zoom



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	0.152	0.027

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.027	0.201

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-18hrs

TM-30 Details

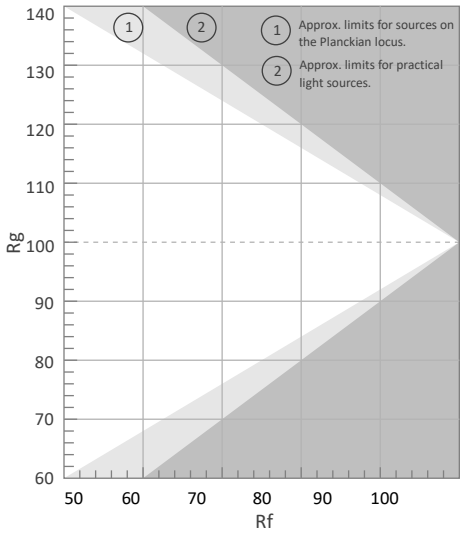
Rf 0.0

Fidelity Index (Rg)

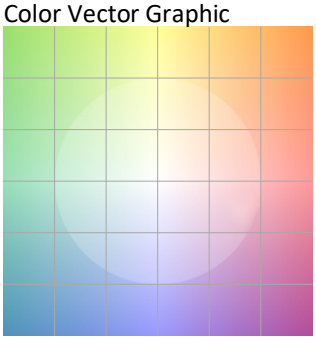
Rg 0.0

Gammut Index (Rg)

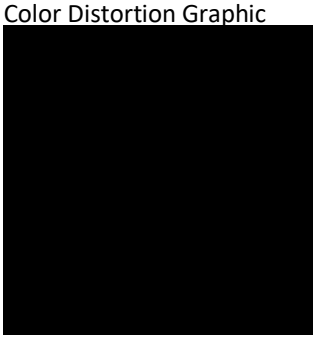
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



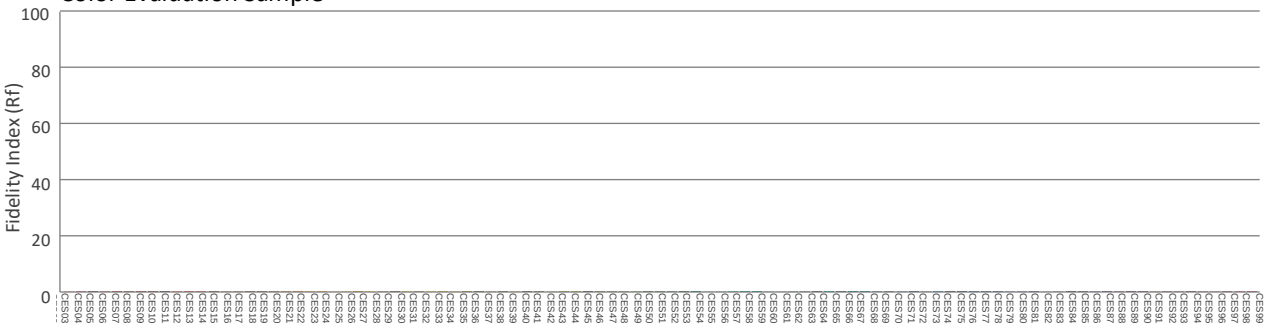
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-AC

Report Summary

Measurements

Fixture Output: 614 lm
Fixture Peak: 3472 cd
Fixture Efficacy: 12 lm/W
Intensity @ 5m: 139 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 18.2°
Field Angle (10%): 36.8°
Cutoff Angle (3%): 65.7°

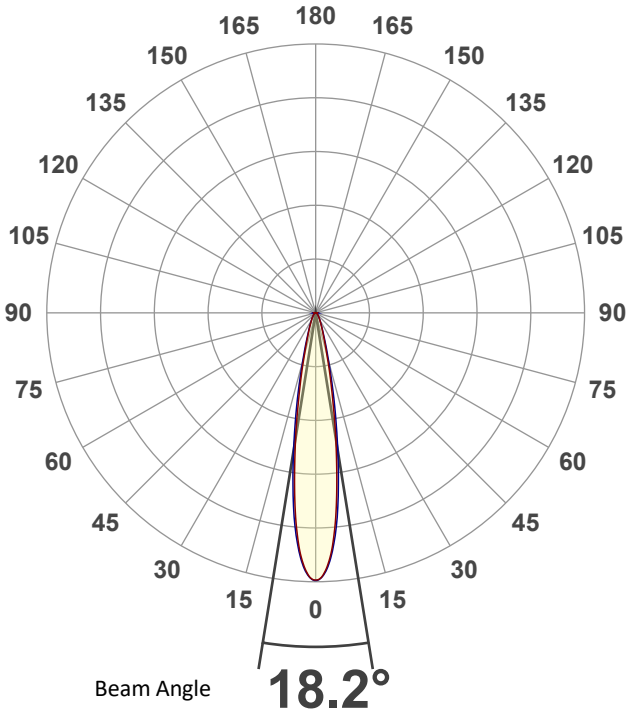
Conditions

AC Supply: 119 V, 60 Hz
Power: 52.29 W
Current: 0.438 A
Power Factor: 0.99

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

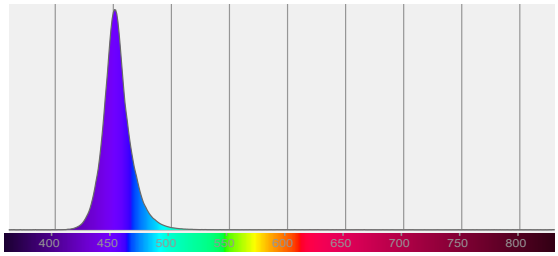
Overall Measurement

Angular Beam Distribution



Beam Angle 18.2°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.151
Y: 0.028

Light Quality

CRI: 0.0

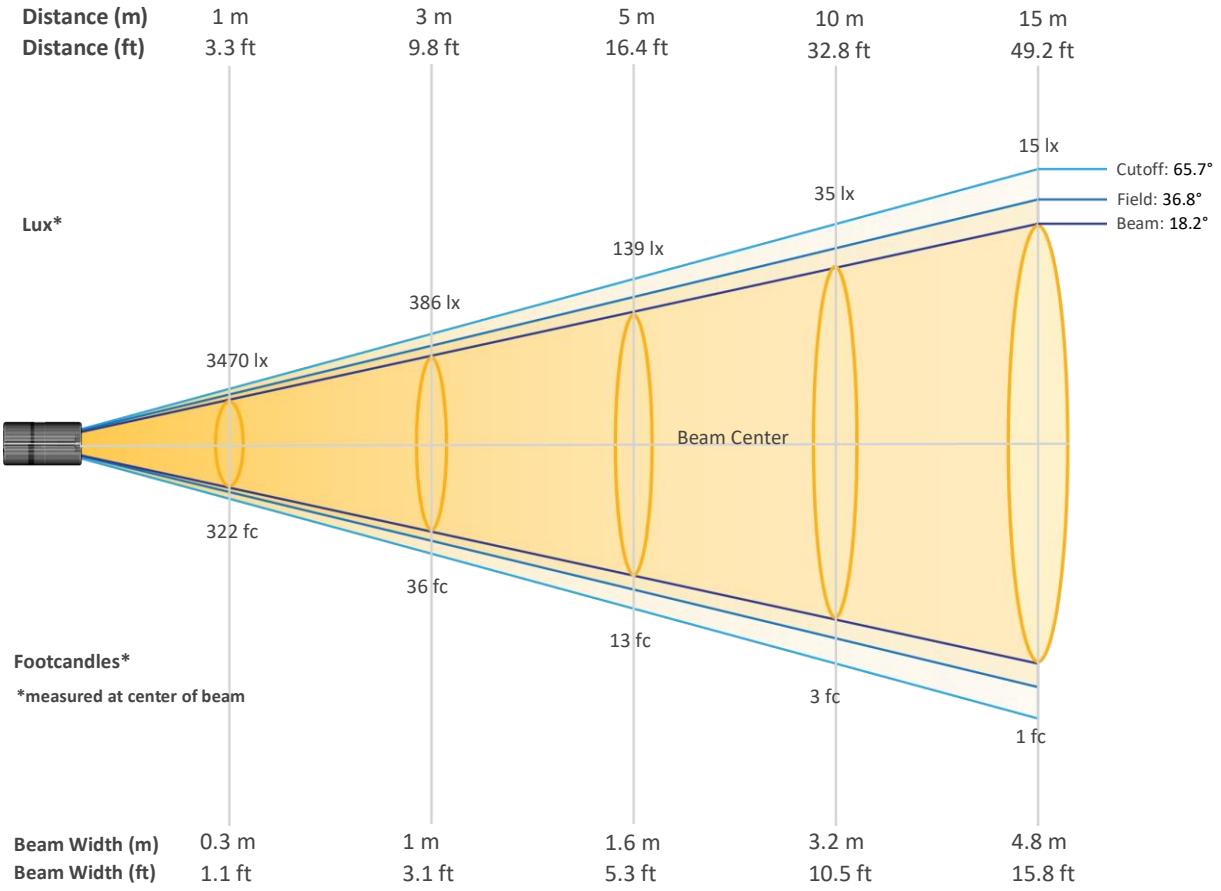
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-AC

Beam Details



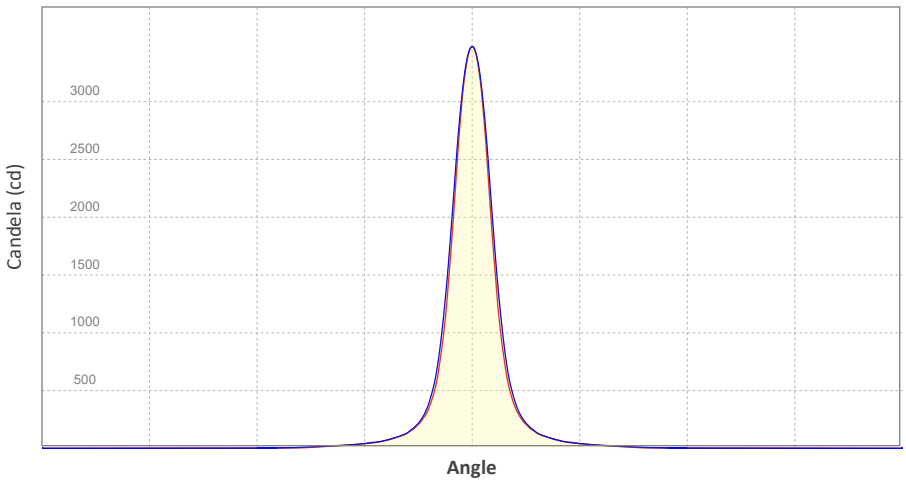
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3470	868	386	217	139	96	71	54	43	35
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	29	24	21	18	15	14	12	11	10	9
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	322	81	36	20	13	9	7	5	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	2	2	2	1	1	1	1	1	1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-AC

Candela Plot

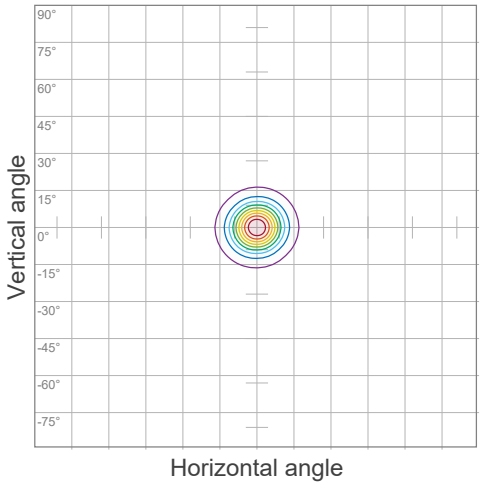


Beam Angle (50%): 18.2°
Field Angle (10%): 36.8°
Cutoff Angle (3%): 65.7°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

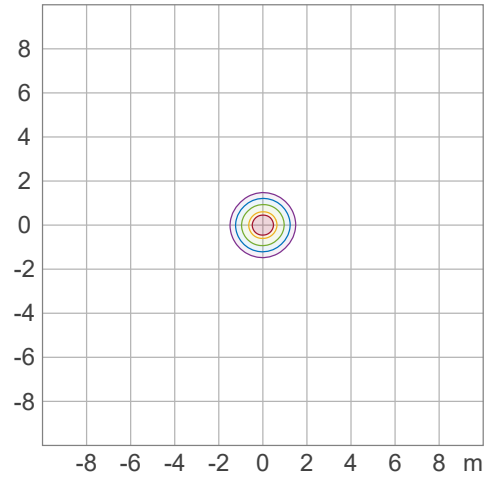
ISO Candela Diagram



90 %	3123.3 cd
80 %	2776.3 cd
70 %	2429.2 cd
60 %	2082.2 cd
50 %	1735.2 cd
40 %	1388.1 cd
30 %	1041.1 cd
20 %	694.1 cd
10 %	347.0 cd

Peak intensity: 3470.4 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	192.8 lx
30.0 %	115.7 lx
10.0 %	38.6 lx
5.0 %	19.3 lx
3.0 %	11.6 lx

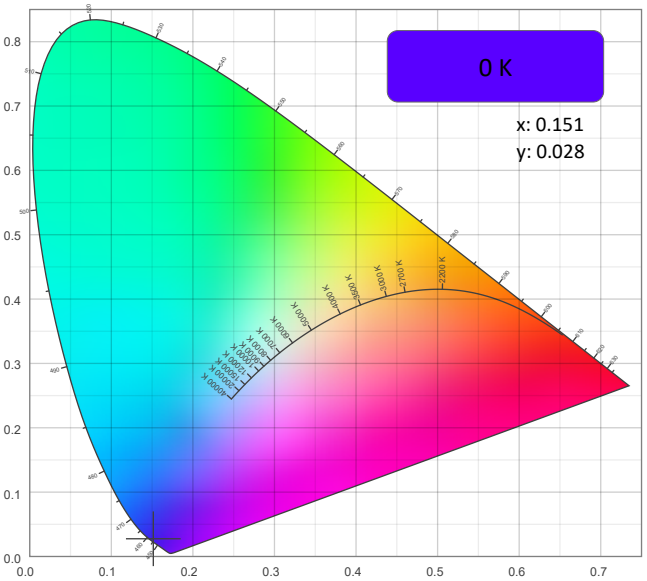
Peak illuminance: 385.6 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

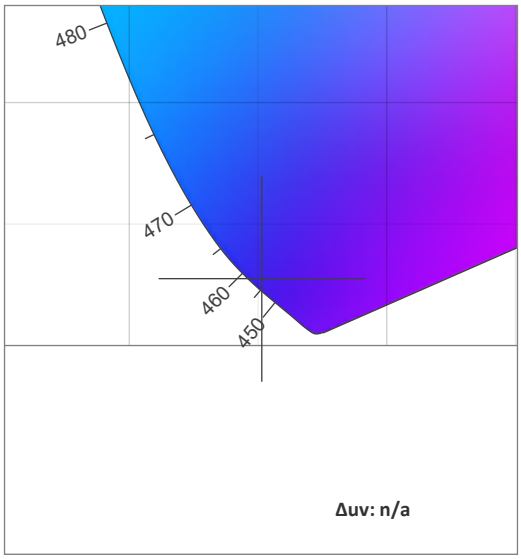
Well Batten 14: Standard Optics - Blue-AC

Chromaticity

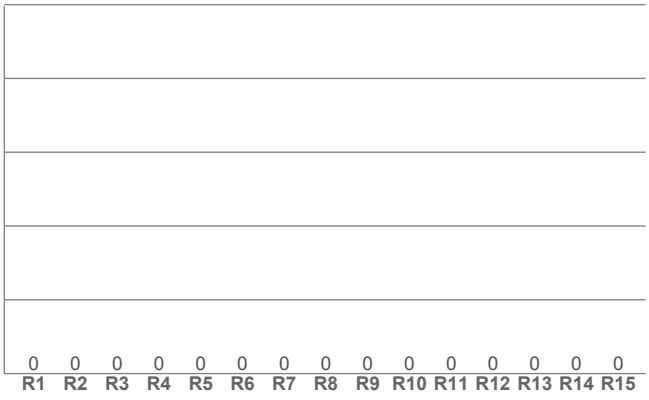
CIE 1931



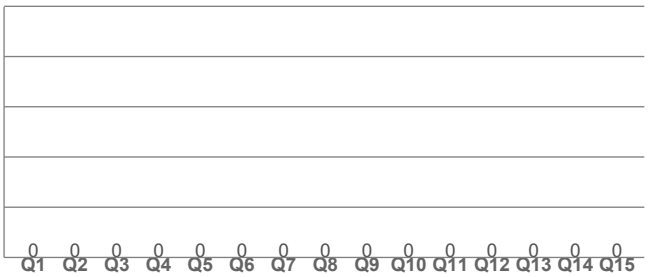
CIE 1931 - Zoom



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	0.151	0.028

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.028	0.200

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-AC

TM-30 Details

Rf 0.0

Fidelity Index (Rg)

Rg 0.0

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
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%
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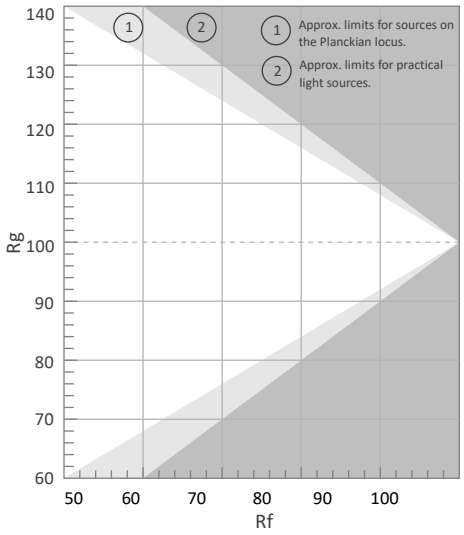
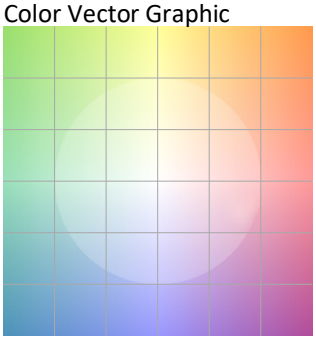
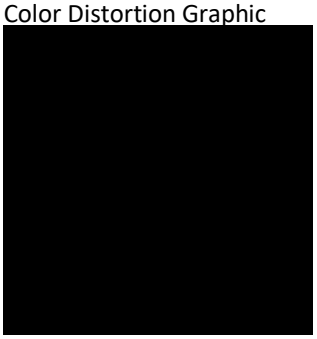
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



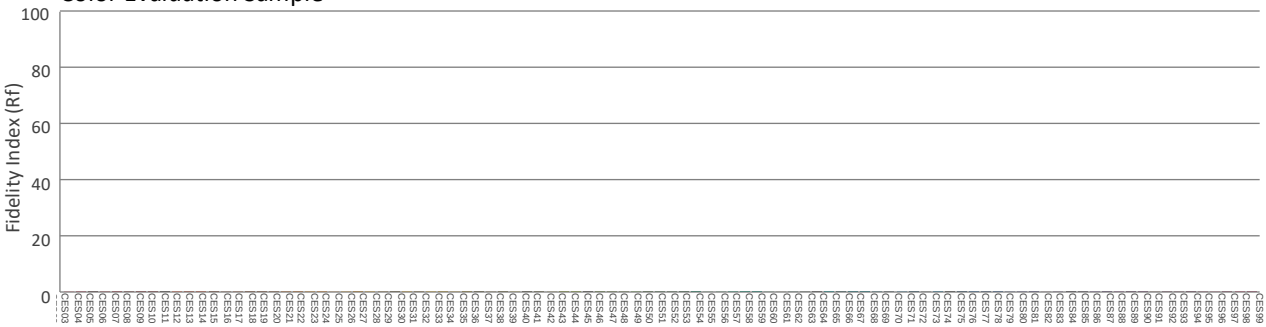
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-Off

Report Summary

Measurements

Fixture Output: 587 lm
Fixture Peak: 3071 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 123 lux
Color Temperature: 0 K
CRI: 0.0 CRI R9 Value: 0.0
CQS: 0.0
TLCI: n/a
TM-30 Rf: 0.0
TM-30 Rg: 0.0
Beam Angle (50%): 18.2°
Field Angle (10%): 37.2°
Cutoff Angle (3%): 67.5°

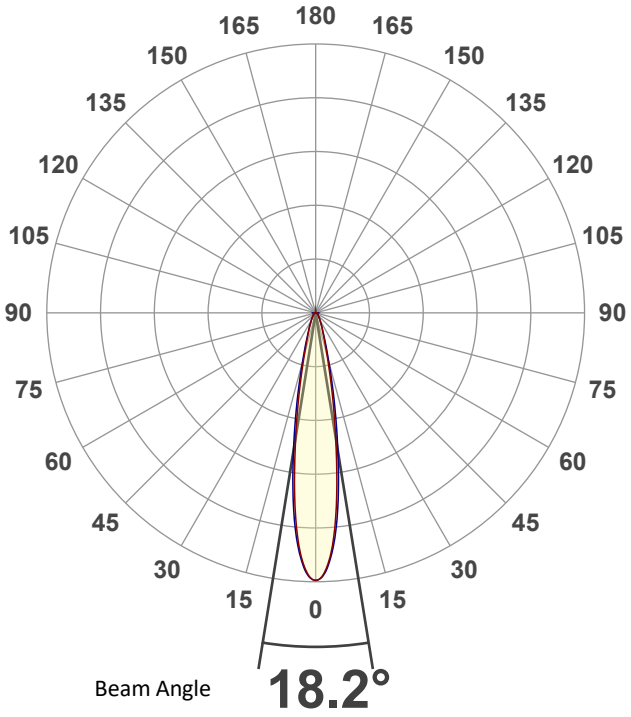
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

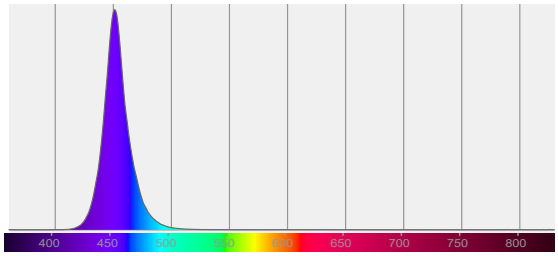
Overall Measurement

Angular Beam Distribution



Beam Angle 18.2°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.152
Y: 0.028

Light Quality

CRI: 0.0

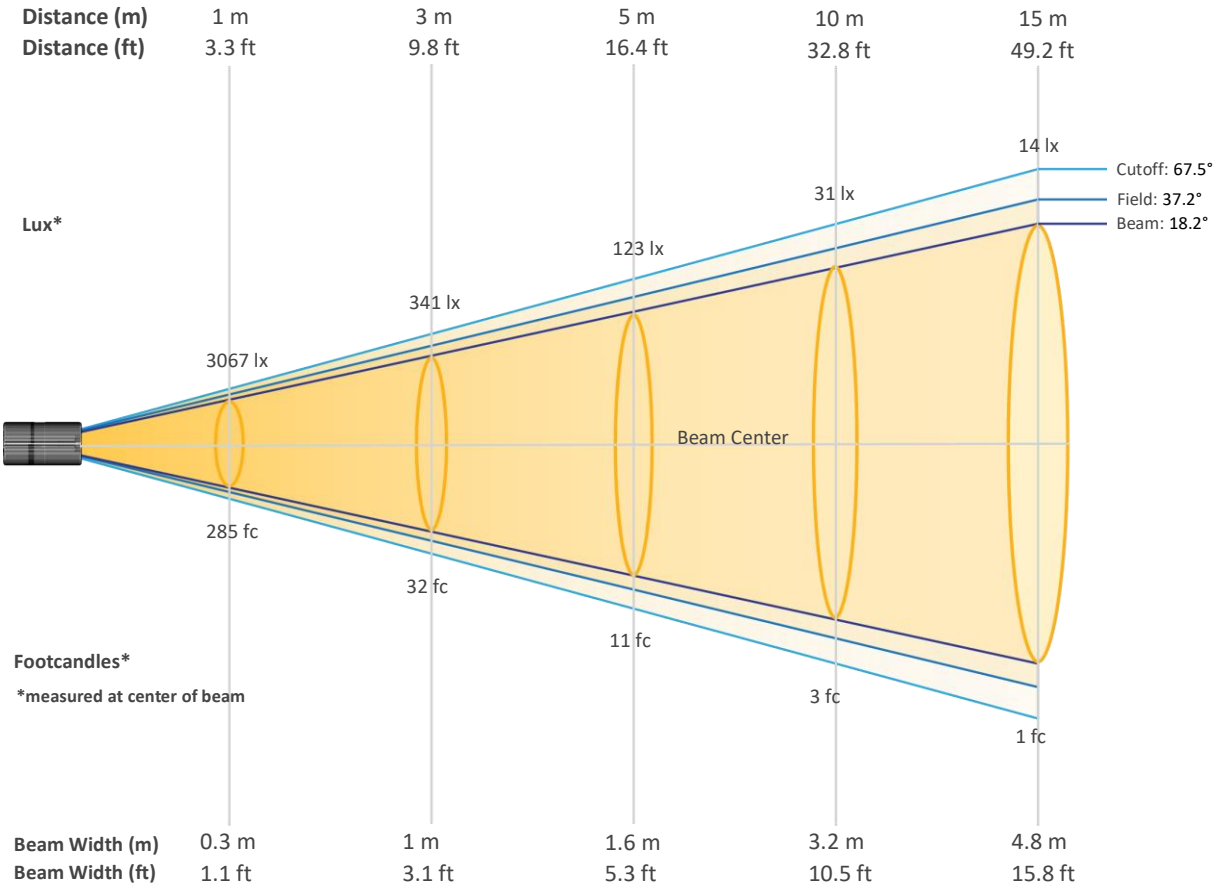
Color Temperature

0 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-Off

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3067	767	341	192	123	85	63	48	38	31
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	25	21	18	16	14	12	11	9	8	8
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	285	71	32	18	11	8	6	4	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	2	2	1	1	1	1	1	1	1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-Off

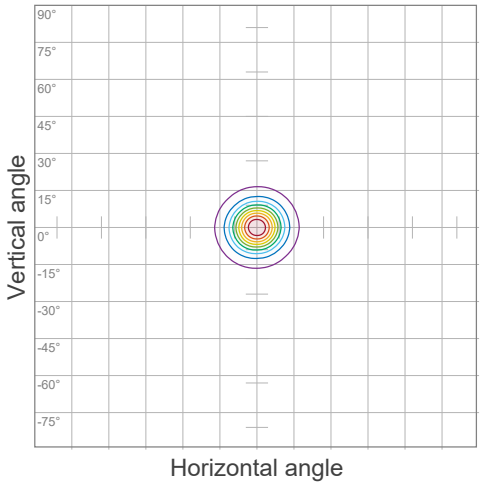
Candela Plot

Beam Angle (50%): 18.2°
Field Angle (10%): 37.2°
Cutoff Angle (3%): 67.5°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

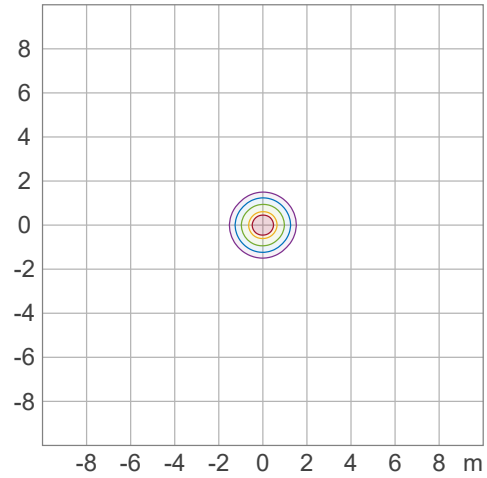
ISO Candela Diagram



90 %	2760.4 cd
80 %	2453.7 cd
70 %	2147.0 cd
60 %	1840.3 cd
50 %	1533.6 cd
40 %	1226.9 cd
30 %	920.1 cd
20 %	613.4 cd
10 %	306.7 cd

Peak intensity: 3067.1 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	170.4 lx
30.0 %	102.2 lx
10.0 %	34.1 lx
5.0 %	17.0 lx
3.0 %	10.2 lx

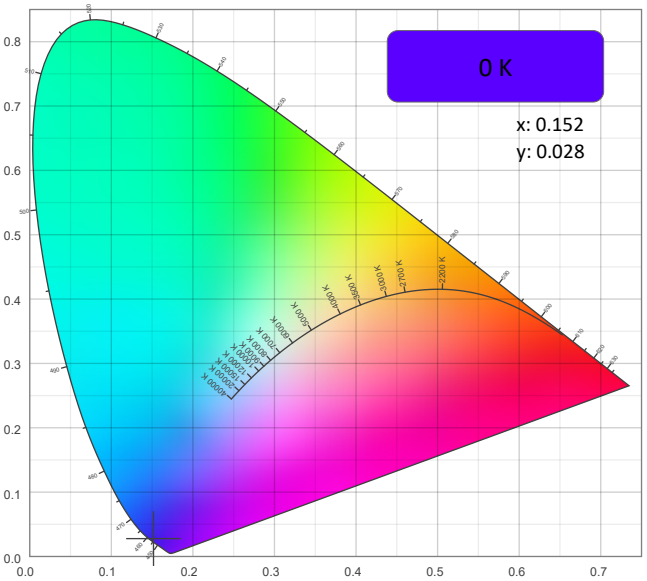
Peak illuminance: 340.8 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

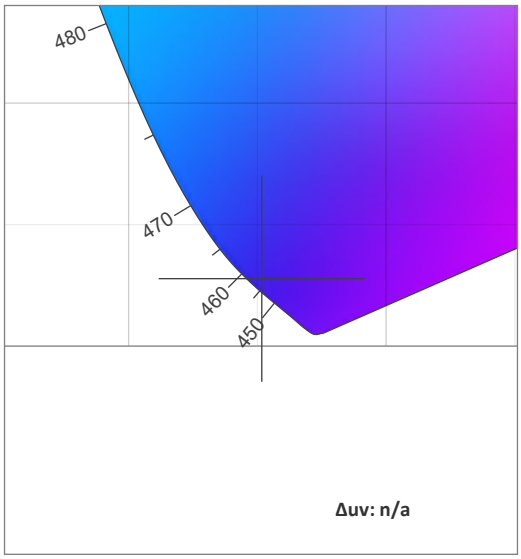
Well Batten 14: Standard Optics - Blue-Off

Chromaticity

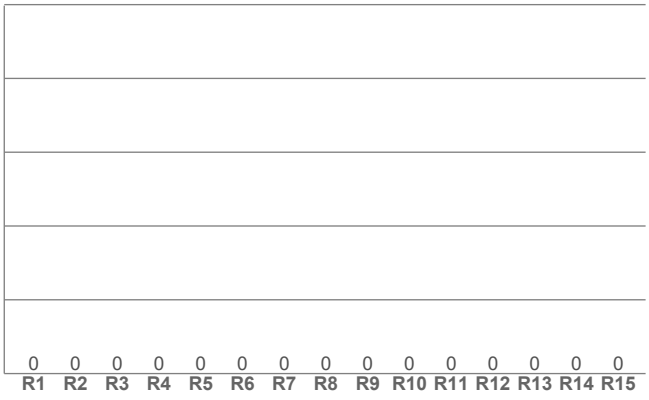
CIE 1931



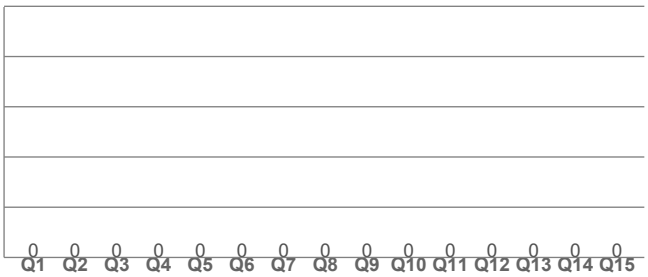
CIE 1931 - Zoom



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	0.152	0.028

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
n/a	0.028	0.200

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	TM30 - Rf	TM30 Rg
n/a	0.0	0.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Blue-Off

TM-30 Details

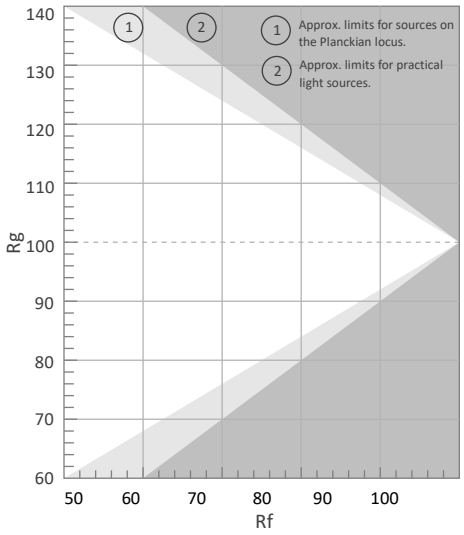
Rf 0.0

Fidelity Index (Rg)

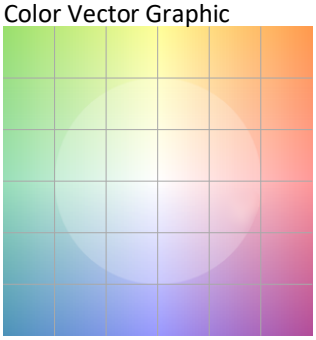
Rg 0.0

Gammut Index (Rg)

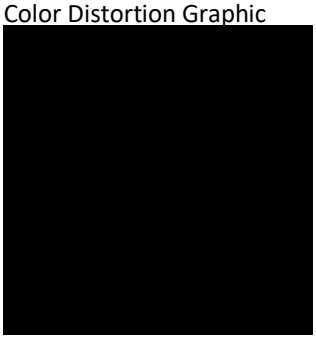
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Color Vector Graphic



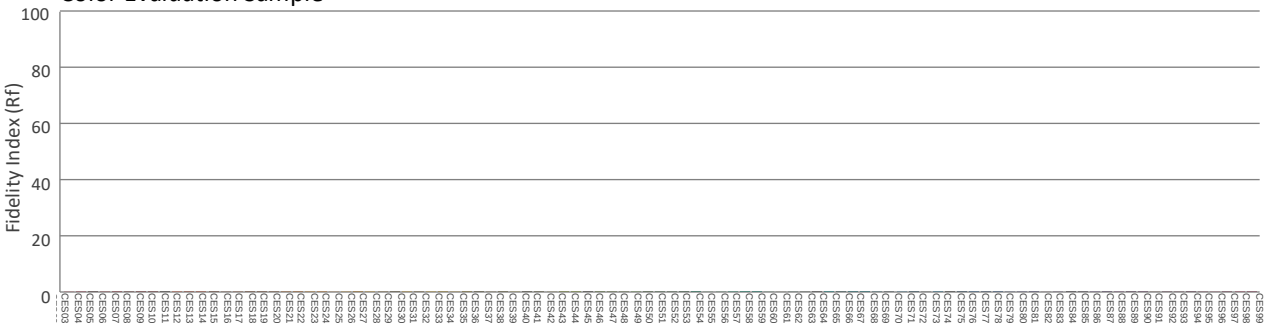
Color Distortion Graphic



Rf by Hue

Local Chroma Shift by Hue

Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-5hrs

Report Summary

Measurements

Fixture Output: 2299 lm
Fixture Peak: 15370 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 614 lux
Color Temperature: 2993 K
CRI: 83.1 CRI R9 Value: 9.2
CQS: 82.2
TLCI: 67
TM-30 Rf: 84.6
TM-30 Rg: 98.0
Beam Angle (50%): 16.1°
Field Angle (10%): 34.2°
Cutoff Angle (3%): 61.9°

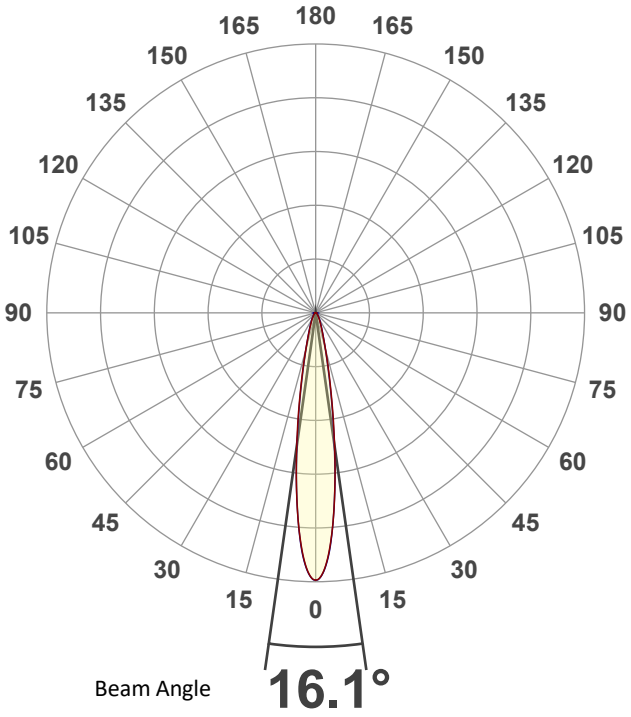
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

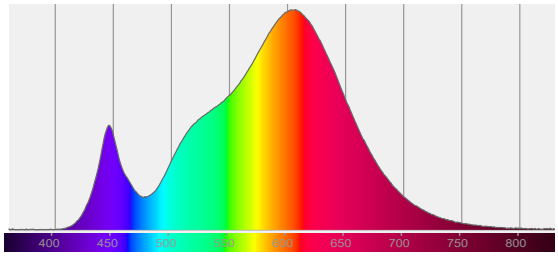
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.439
Y: 0.406

Light Quality

CRI: 83.1

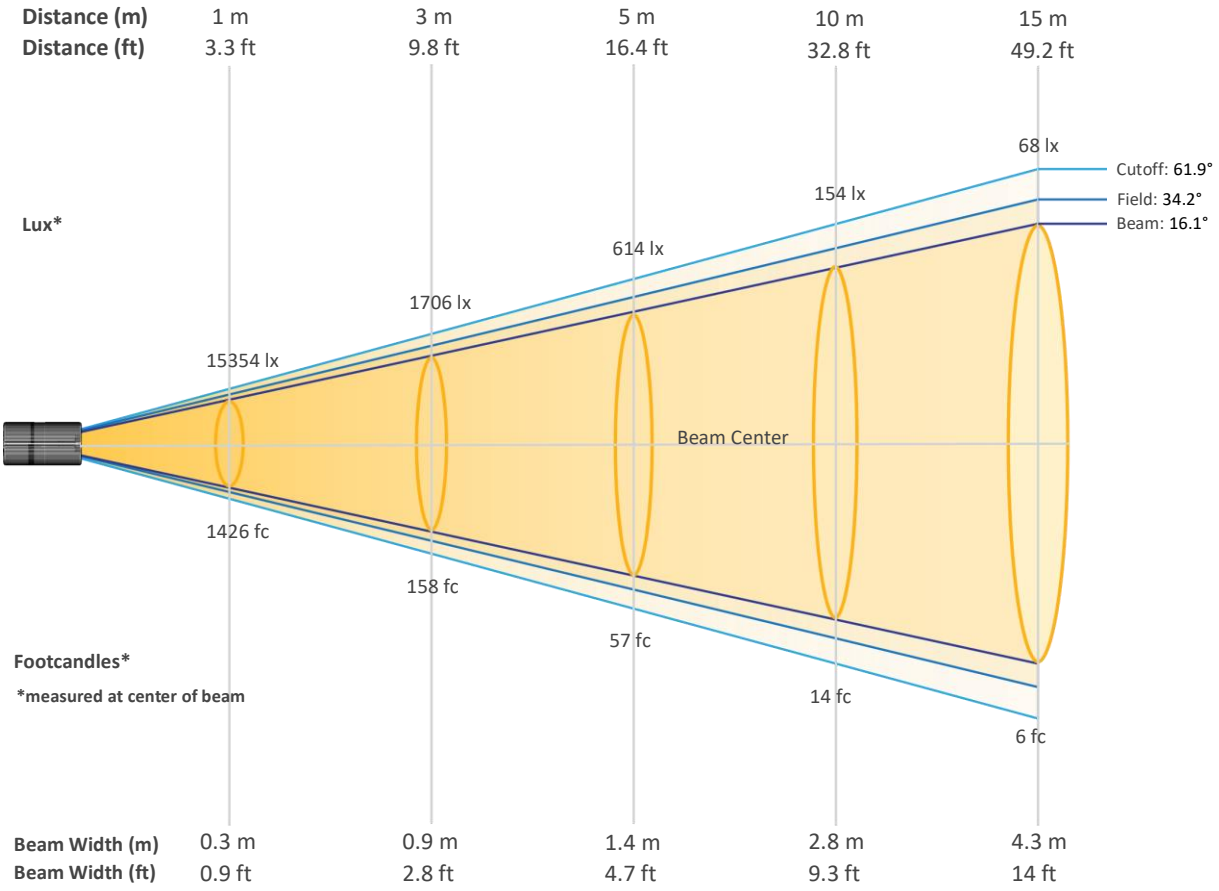
Color Temperature

2993 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-5hrs

Beam Details

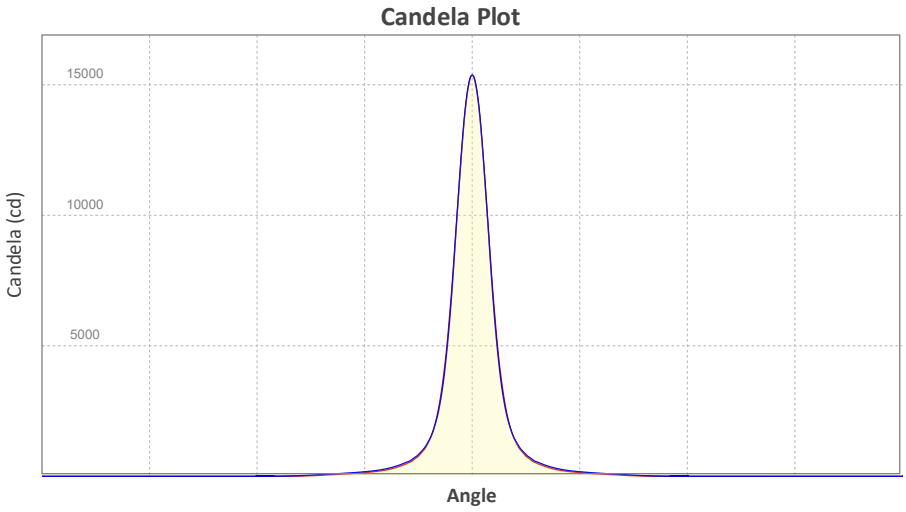


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15354	3838	1706	960	614	426	313	240	190	154
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	127	107	91	78	68	60	53	47	43	38
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1426	357	158	89	57	40	29	22	18	14
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	12	10	8	7	6	6	5	4	4	4

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-5hrs

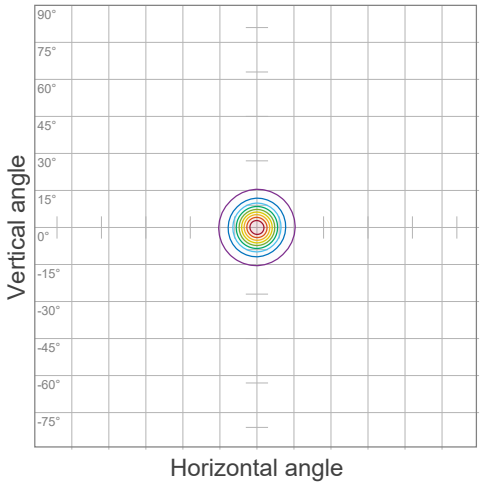


Beam Angle (50%): 16.1°
Field Angle (10%): 34.2°
Cutoff Angle (3%): 61.9°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

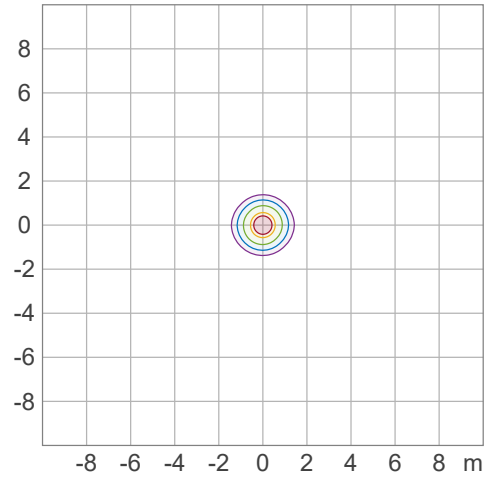
ISO Candela Diagram



90 %	13818.5 cd
80 %	12283.1 cd
70 %	10747.8 cd
60 %	9212.4 cd
50 %	7677.0 cd
40 %	6141.6 cd
30 %	4606.2 cd
20 %	3070.8 cd
10 %	1535.4 cd

Peak intensity: 15353.9 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	853.0 lx
30.0 %	511.8 lx
10.0 %	170.6 lx
5.0 %	85.3 lx
3.0 %	51.2 lx

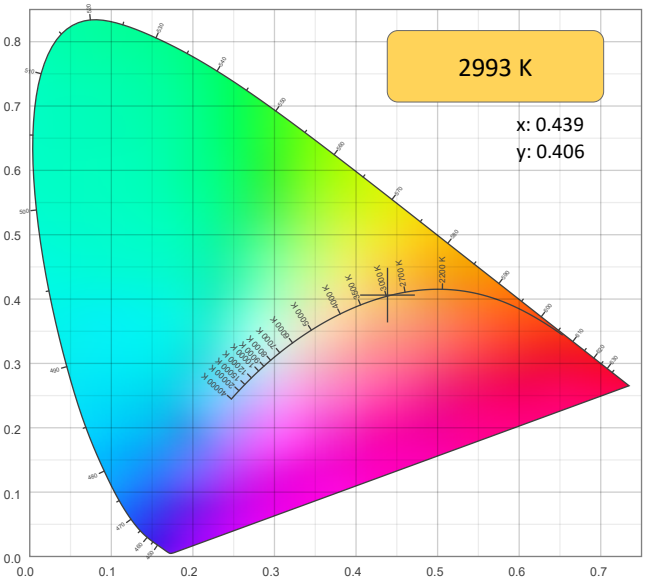
Peak illuminance: 1706.0 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

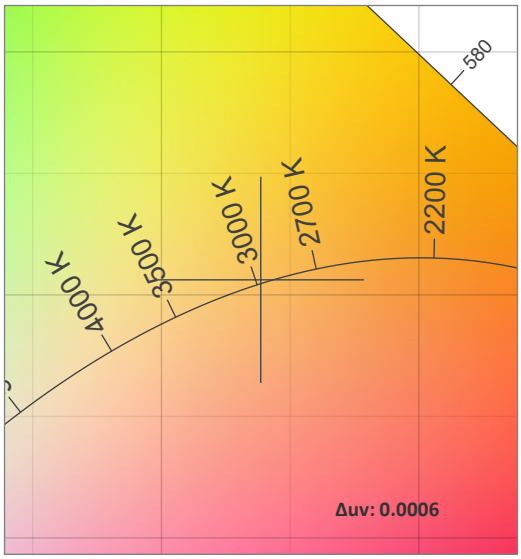
Well Batten 14: Standard Optics - Warm White-5hrs

Chromaticity

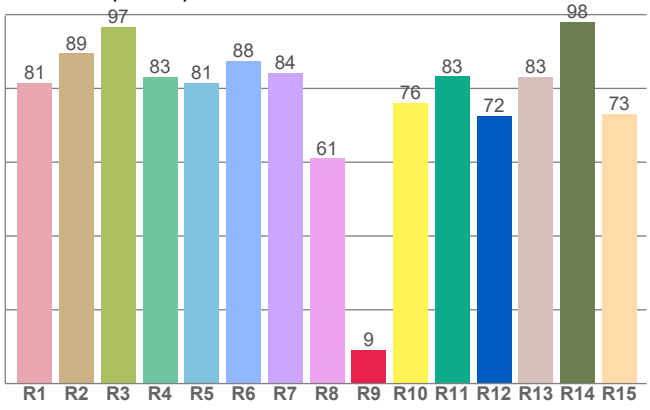
CIE 1931



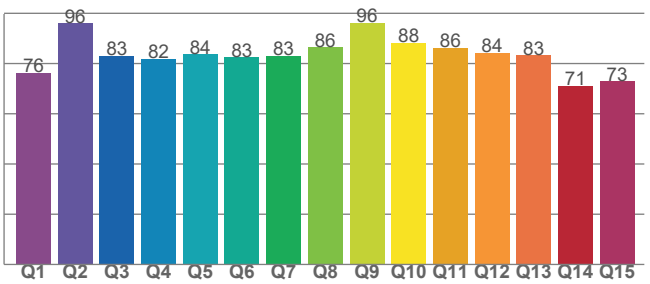
CIE 1931 - Zoom



CRI: 83.1 (R1-R8)



CQS: 82.2



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2993 K	0.439	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0006	0.406	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.1	9.2	82.2

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
67	84.6	98.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-5hrs

TM-30 Details

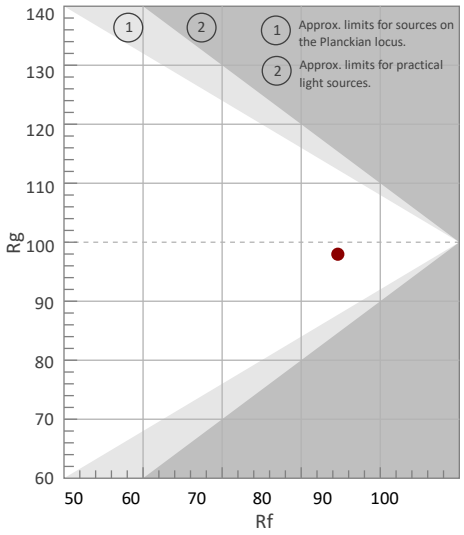
Rf 84.6

Fidelity Index (Rg)

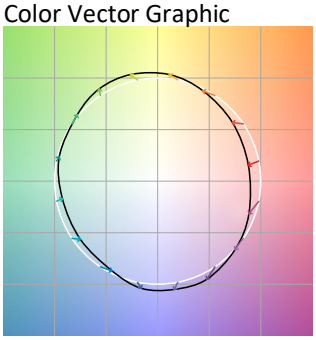
Rg 98.0

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	81	-11%	-2%
2	81	-8%	7%
3	77	-3%	12%
4	86	4%	9%
5	90	7%	6%
6	90	6%	-2%
7	84	1%	-10%
8	92	-2%	-4%
9	89	-6%	-1%
10	87	-6%	5%
11	83	-3%	11%
12	85	5%	5%
13	89	6%	-5%
14	82	6%	-13%
15	79	-1%	-14%
16	81	-7%	-14%

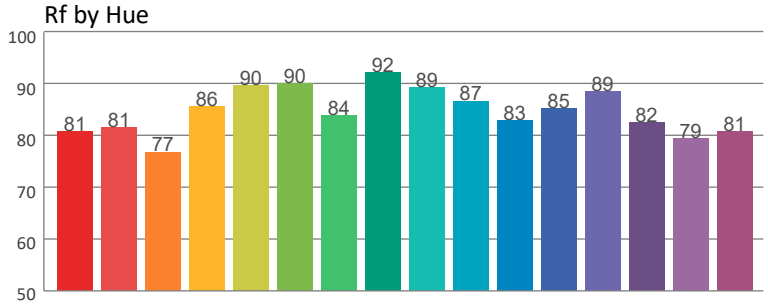


Color Vector Graphic

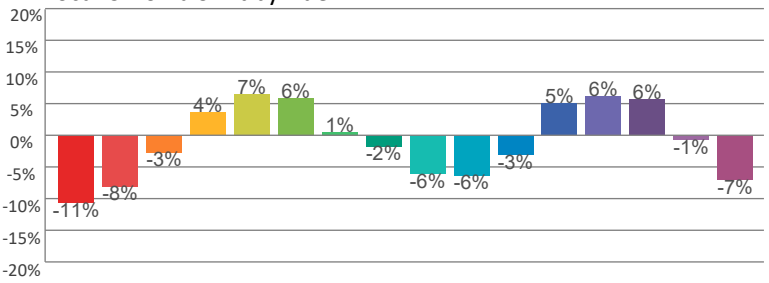


Color Distortion Graphic

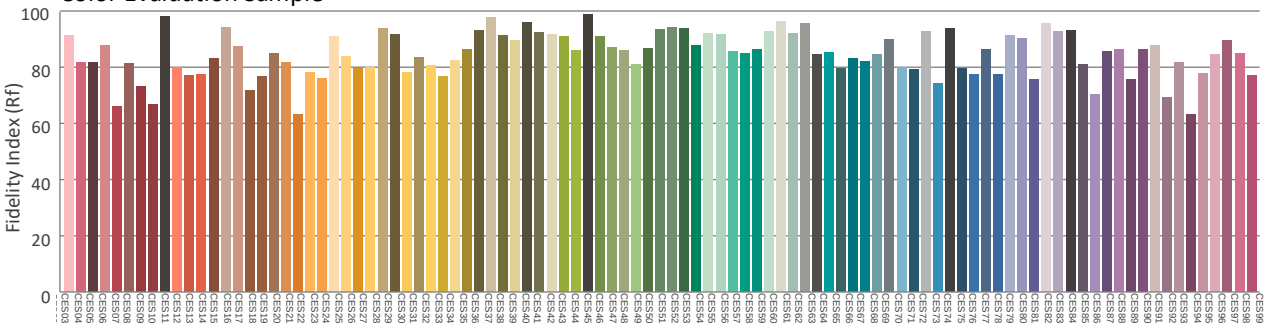
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-8hrs

Report Summary

Measurements

Fixture Output: 1444 lm
Fixture Peak: 9635 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 385 lux
Color Temperature: 2992 K
CRI: 83.3 CRI R9 Value: 9.9
CQS: 82.5
TLCI: 67
TM-30 Rf: 84.8
TM-30 Rg: 98.0
Beam Angle (50%): 16.2°
Field Angle (10%): 34.3°
Cutoff Angle (3%): 62°

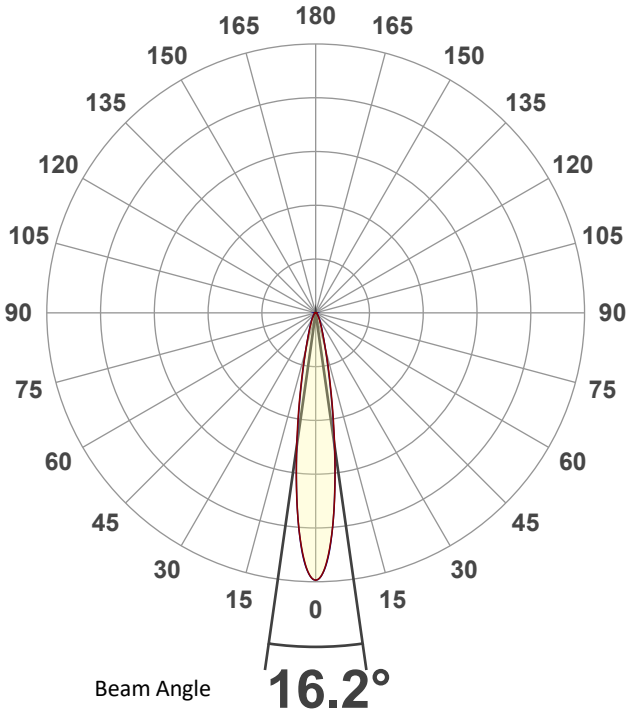
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

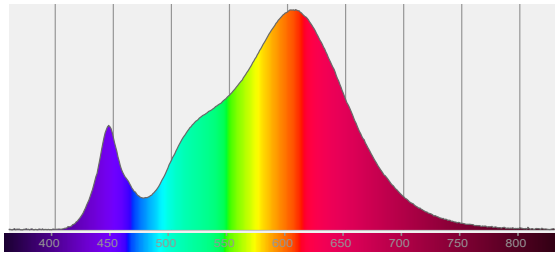
Overall Measurement

Angular Beam Distribution



Beam Angle 16.2°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.439
Y: 0.407

Light Quality

CRI: 83.3

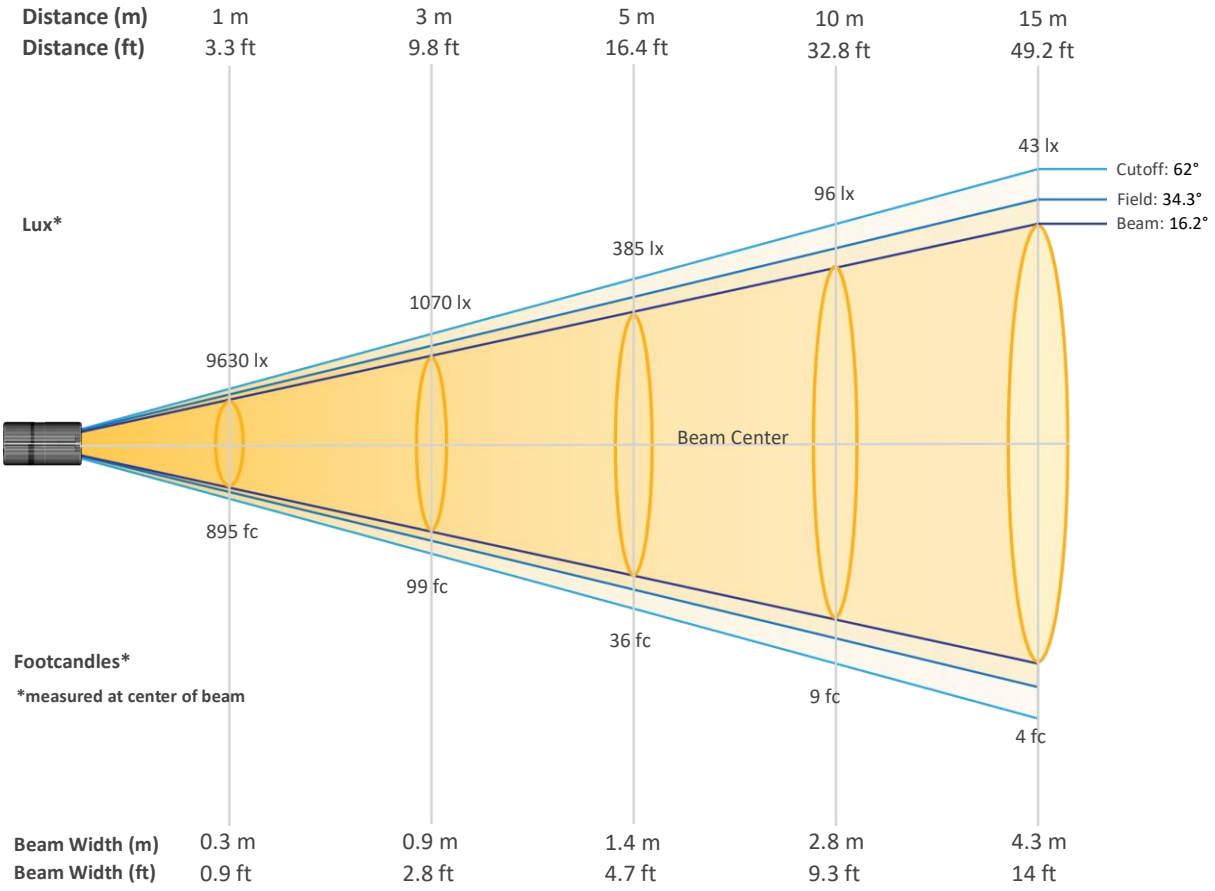
Color Temperature

2992 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-8hrs

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	9630	2407	1070	602	385	267	197	150	119	96
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	80	67	57	49	43	38	33	30	27	24
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	895	224	99	56	36	25	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	5	4	3	3	3	2	2

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-8hrs

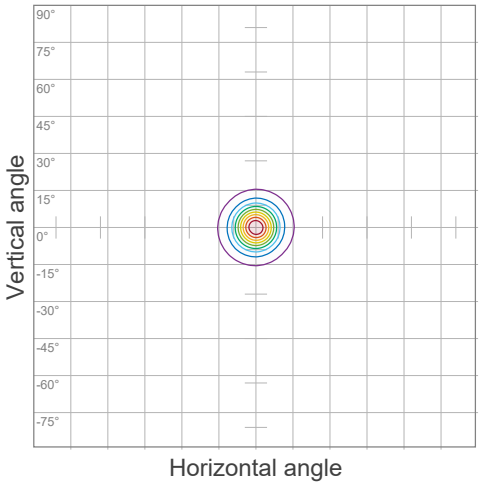
Candela Plot

Beam Angle (50%): 16.2°
Field Angle (10%): 34.3°
Cutoff Angle (3%): 62°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

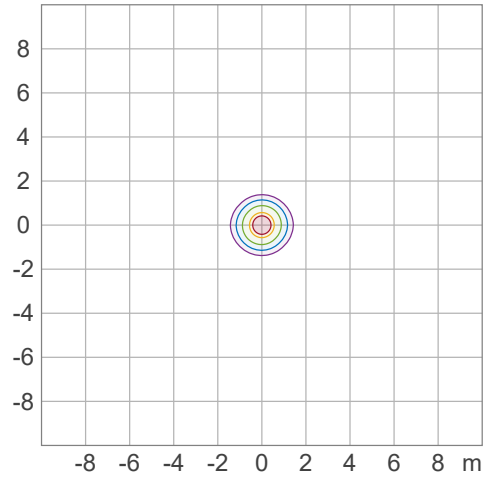
ISO Candela Diagram



90 %	8666.8 cd
80 %	7703.8 cd
70 %	6740.8 cd
60 %	5777.8 cd
50 %	4814.9 cd
40 %	3851.9 cd
30 %	2888.9 cd
20 %	1925.9 cd
10 %	963.0 cd

Peak intensity: 9629.7 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	535.0 lx
30.0 %	321.0 lx
10.0 %	107.0 lx
5.0 %	53.5 lx
3.0 %	32.1 lx

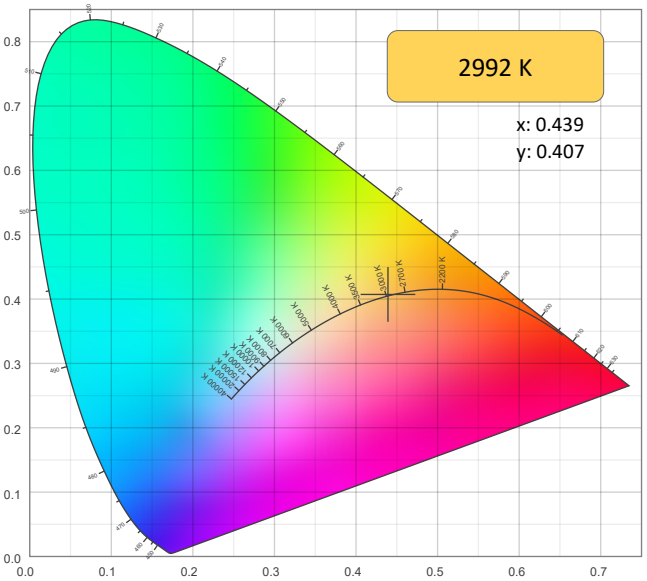
Peak illuminance: 1070.0 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

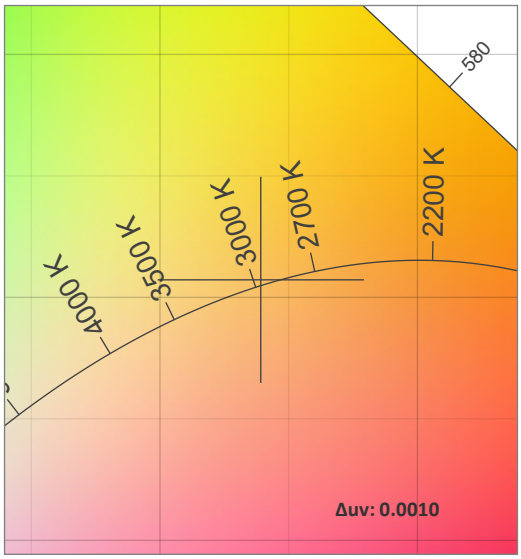
Well Batten 14: Standard Optics - Warm White-8hrs

Chromaticity

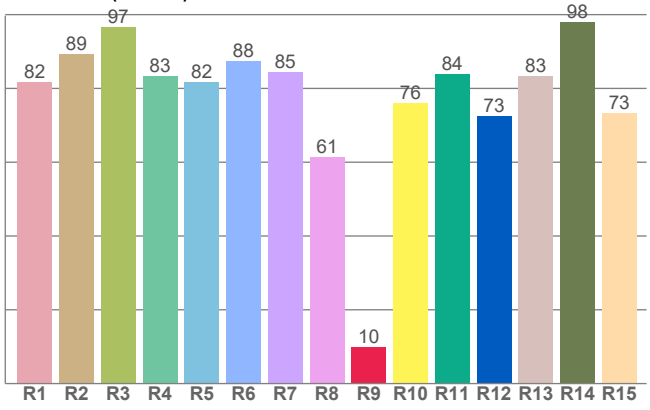
CIE 1931



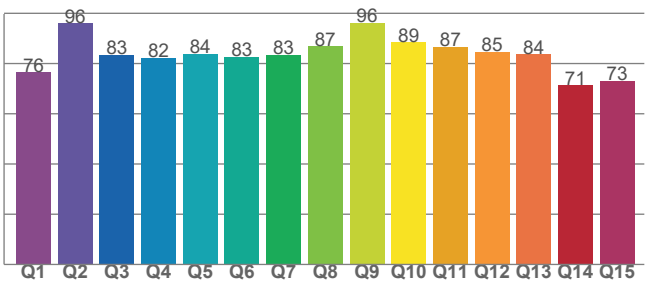
CIE 1931 - Zoom



CRI: 83.3 (R1-R8)



CQS: 82.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2992 K	0.439	0.407

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0010	0.407	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.3	9.9	82.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
67	84.8	98.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-8hrs

TM-30 Details

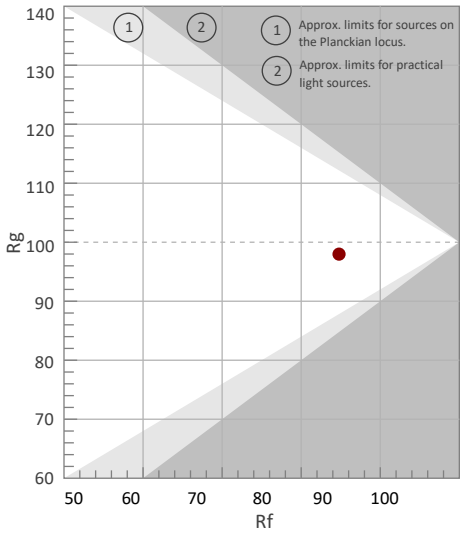
Rf 84.8

Fidelity Index (Rg)

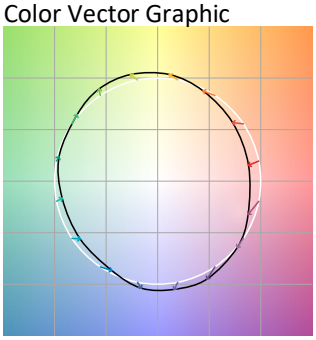
Rg 98.0

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	81	-11%	-2%
2	82	-8%	7%
3	77	-3%	12%
4	86	4%	9%
5	90	7%	6%
6	90	6%	-2%
7	84	1%	-10%
8	92	-2%	-5%
9	89	-6%	-2%
10	87	-6%	5%
11	83	-3%	11%
12	85	5%	5%
13	89	6%	-5%
14	83	6%	-13%
15	83	0%	-11%
16	79	-8%	-15%

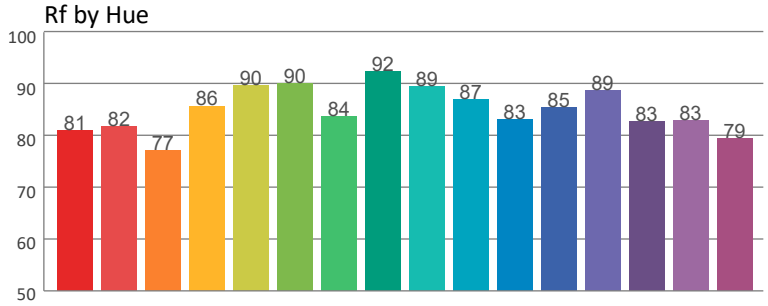


Color Vector Graphic

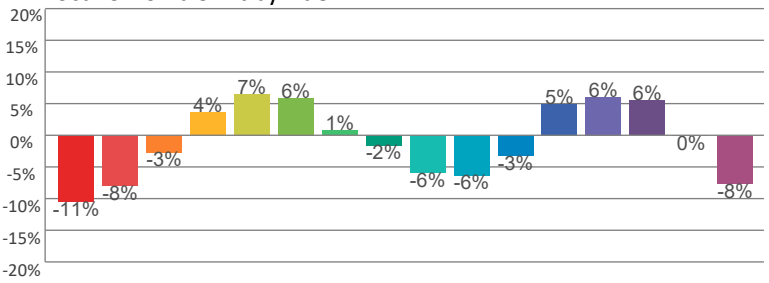


Color Distortion Graphic

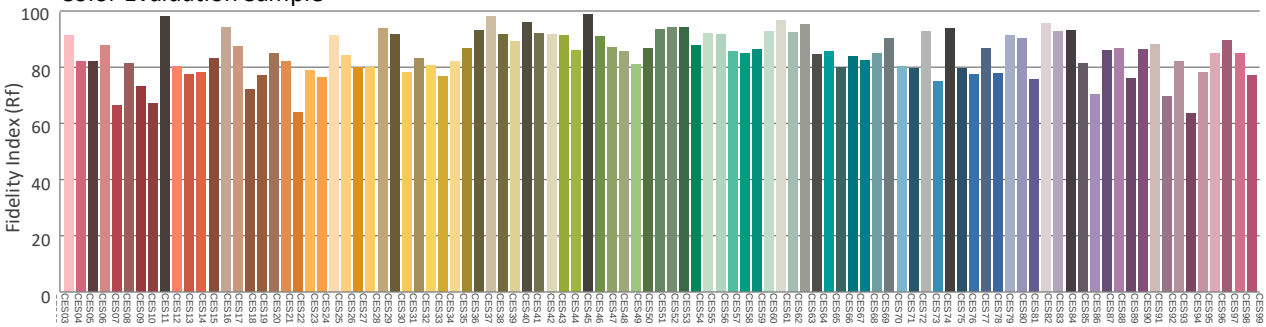
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-12hrs

Report Summary

Measurements

Fixture Output: 912 lm
Fixture Peak: 6040 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 241 lux
Color Temperature: 2989 K
CRI: 83.4 CRI R9 Value: 10.2
CQS: 82.6
TLCI: 67
TM-30 Rf: 84.9
TM-30 Rg: 98.0
Beam Angle (50%): 16.2°
Field Angle (10%): 34.3°
Cutoff Angle (3%): 62.1°

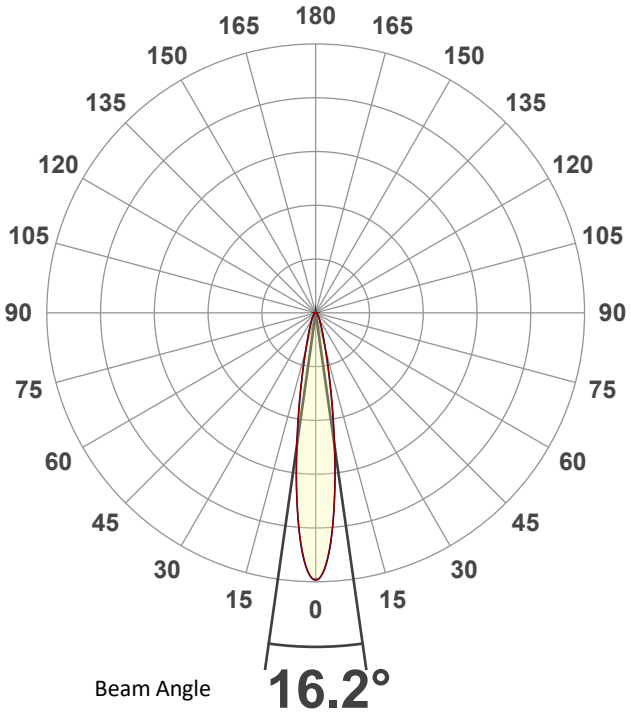
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

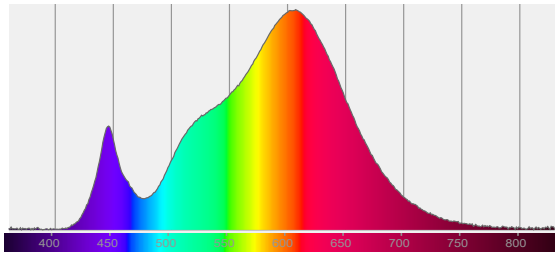
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.440
Y: 0.408

Light Quality

CRI: 83.4

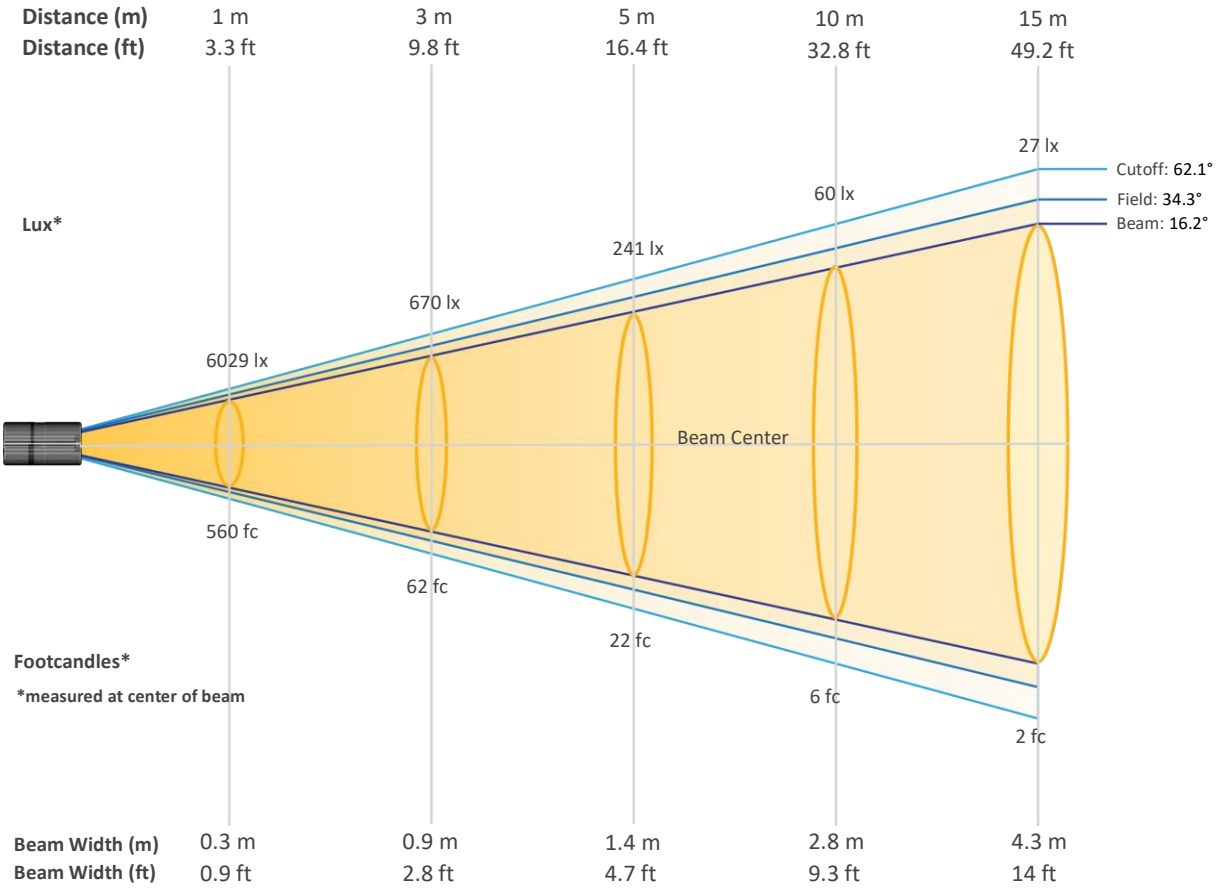
Color Temperature

2989 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-12hrs

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	6029	1507	670	377	241	167	123	94	74	60
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	50	42	36	31	27	24	21	19	17	15
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	560	140	62	35	22	16	11	9	7	6
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	5	4	3	3	2	2	2	2	2	1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-12hrs

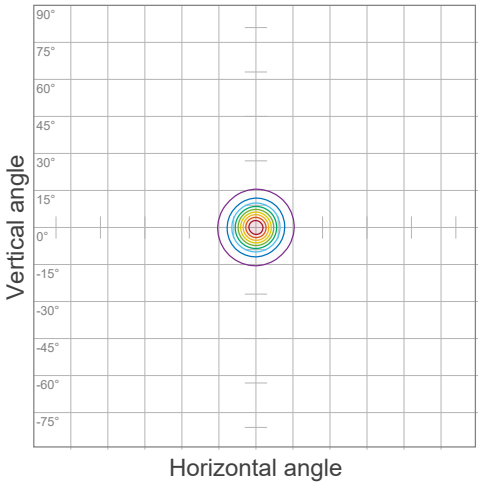
Candela Plot

Beam Angle (50%): 16.2°
Field Angle (10%): 34.3°
Cutoff Angle (3%): 62.1°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

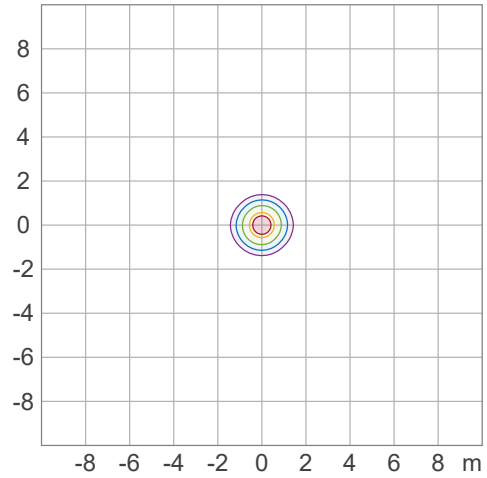
ISO Candela Diagram



90 %	5426.3 cd
80 %	4823.4 cd
70 %	4220.5 cd
60 %	3617.6 cd
50 %	3014.6 cd
40 %	2411.7 cd
30 %	1808.8 cd
20 %	1205.9 cd
10 %	602.9 cd

Peak intensity: 6029.3 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	335.0 lx
30.0 %	201.0 lx
10.0 %	67.0 lx
5.0 %	33.5 lx
3.0 %	20.1 lx

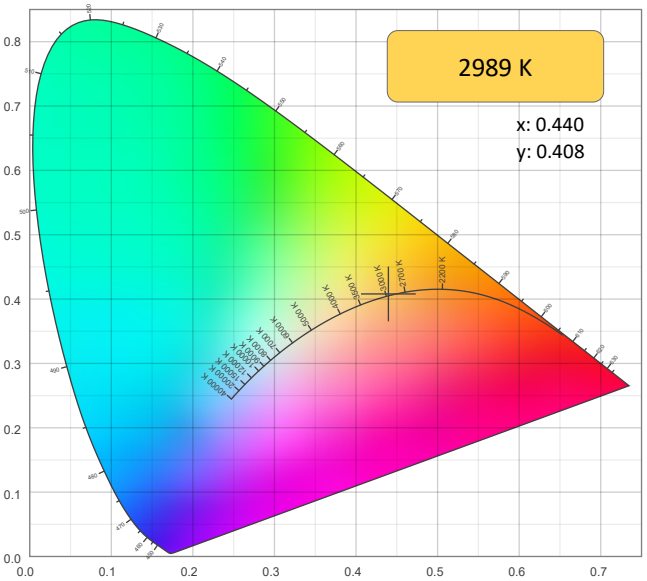
Peak illuminance: 669.9 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

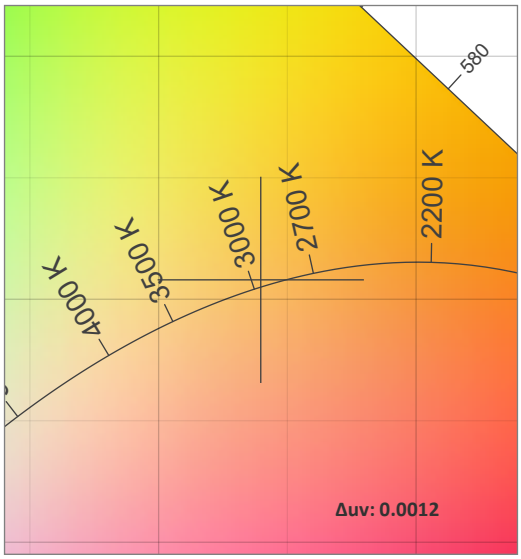
Well Batten 14: Standard Optics - Warm White-12hrs

Chromaticity

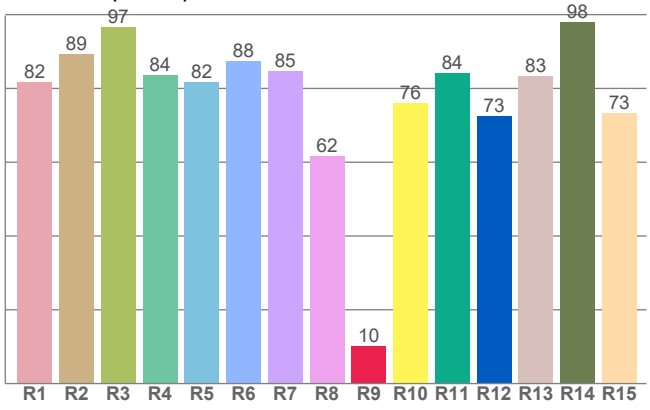
CIE 1931



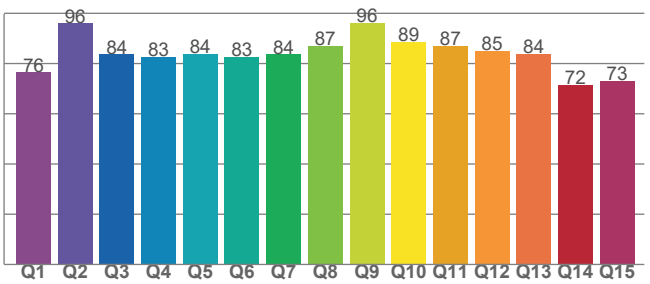
CIE 1931 - Zoom



CRI: 83.4 (R1-R8)



CQS: 82.6



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2989 K	0.440	0.408

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0012	0.408	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.4	10.2	82.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
67	84.9	98.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-12hrs

TM-30 Details

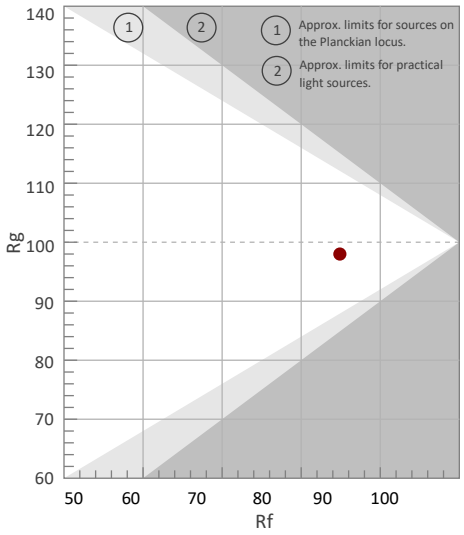
Rf 84.9

Fidelity Index (Rg)

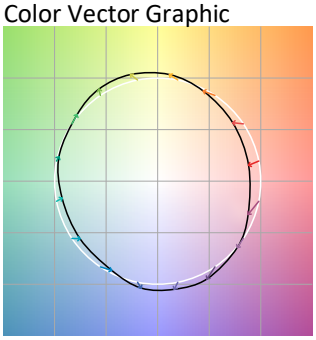
Rg 98.0

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	81	-10%	-2%
2	82	-8%	7%
3	77	-3%	12%
4	86	4%	9%
5	90	7%	6%
6	90	6%	-2%
7	84	1%	-10%
8	92	-1%	-5%
9	89	-6%	-2%
10	87	-6%	4%
11	83	-3%	11%
12	86	5%	5%
13	89	6%	-5%
14	83	5%	-13%
15	83	0%	-11%
16	80	-8%	-15%

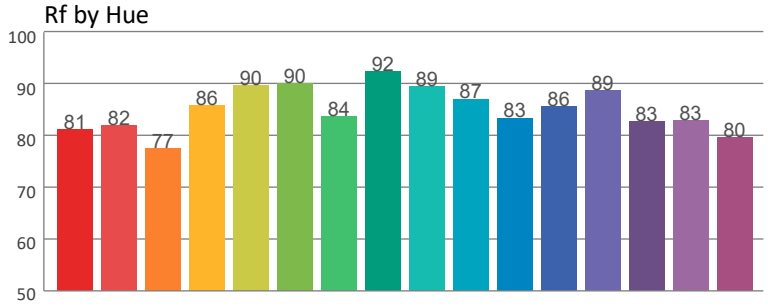


Color Vector Graphic

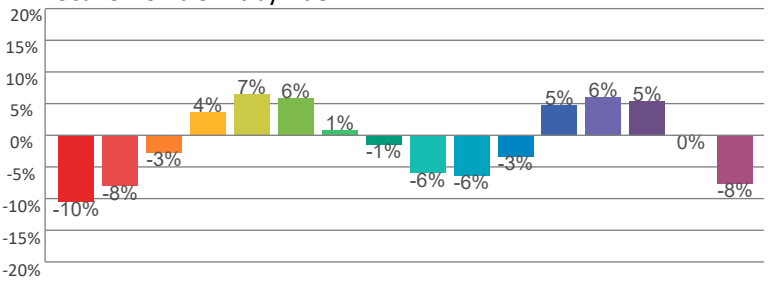


Color Distortion Graphic

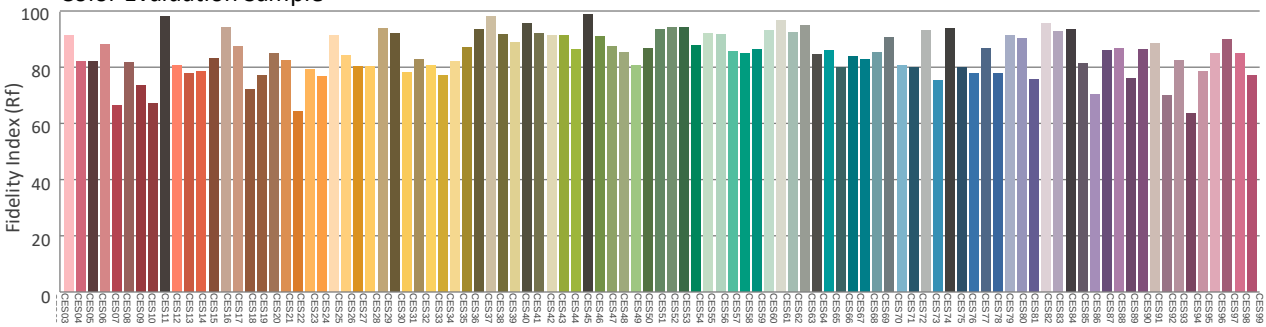
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-18hrs

Report Summary

Measurements

Fixture Output: 560 lm
Fixture Peak: 3693 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 148 lux
Color Temperature: 2995 K
CRI: 83.6 CRI R9 Value: 11.2
CQS: 82.9
TLCI: 67
TM-30 Rf: 85.1
TM-30 Rg: 98.1
Beam Angle (50%): 16.3°
Field Angle (10%): 34.5°
Cutoff Angle (3%): 62.3°

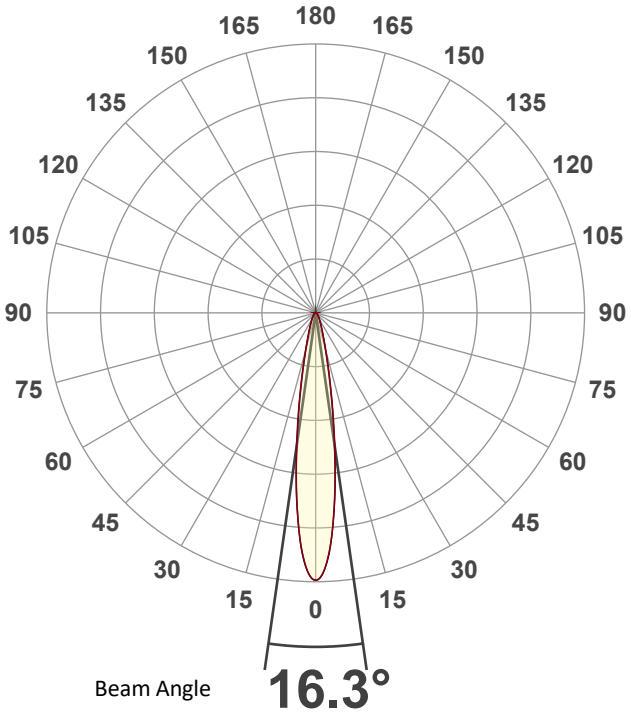
Conditions

AC Supply: 121 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

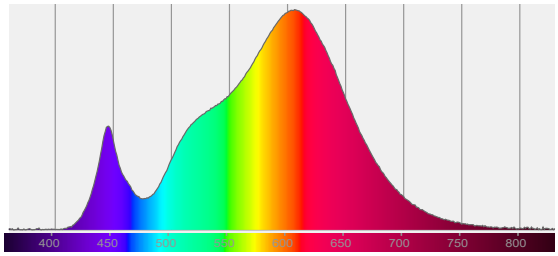
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.440
Y: 0.409

Light Quality

CRI: 83.6

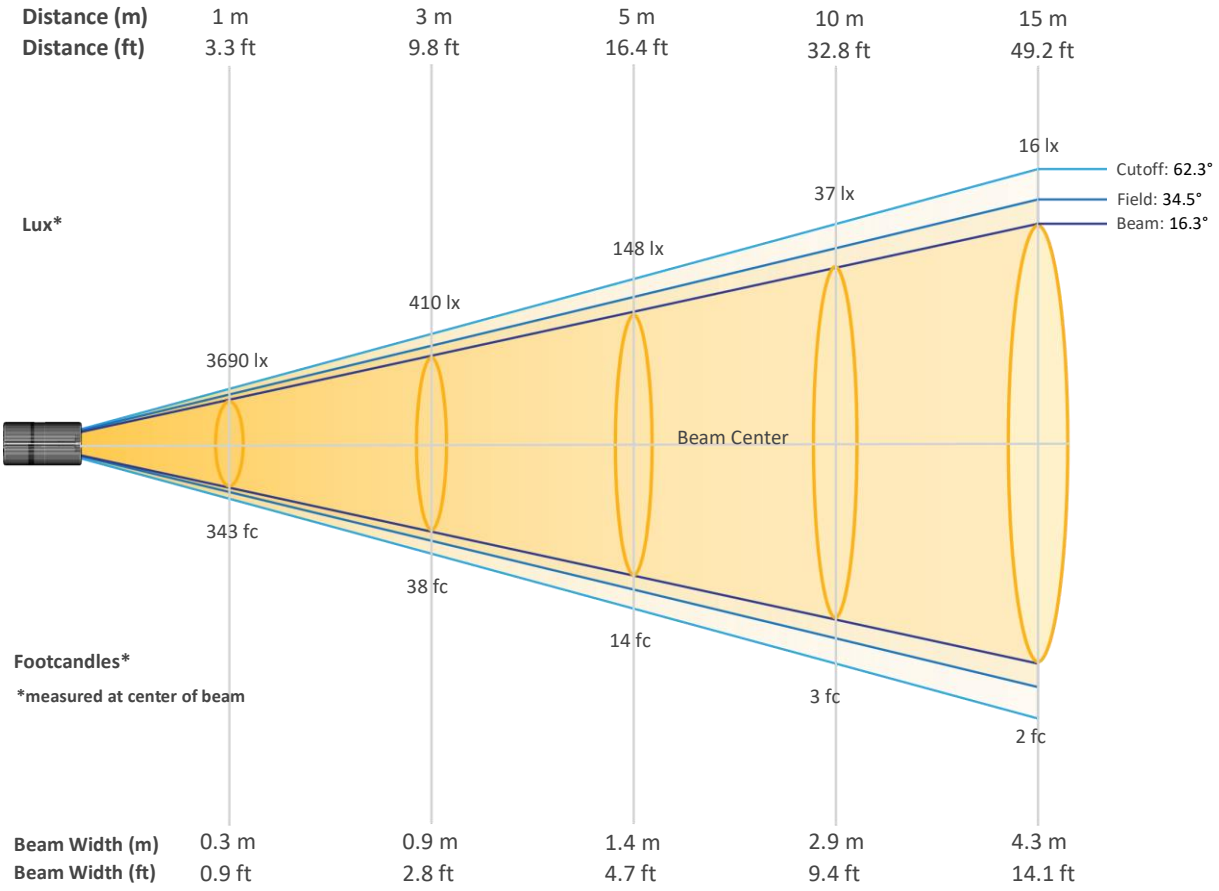
Color Temperature

2995 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-18hrs

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3690	923	410	231	148	103	75	58	46	37
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	30	26	22	19	16	14	13	11	10	9
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	343	86	38	21	14	10	7	5	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	2	2	2	2	1	1	1	1	1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-18hrs

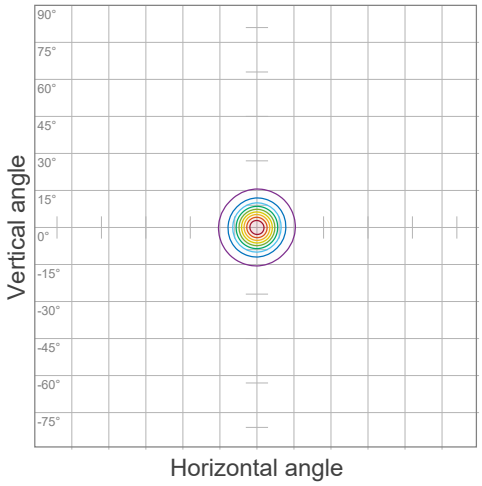
Candela Plot

Beam Angle (50%): 16.3°
Field Angle (10%): 34.5°
Cutoff Angle (3%): 62.3°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

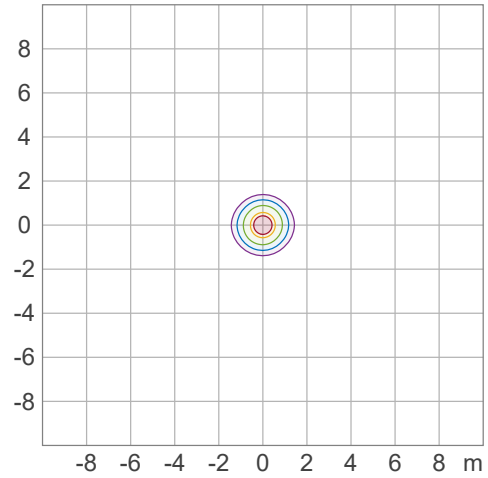
ISO Candela Diagram



90 %	3321.4 cd
80 %	2952.3 cd
70 %	2583.3 cd
60 %	2214.2 cd
50 %	1845.2 cd
40 %	1476.2 cd
30 %	1107.1 cd
20 %	738.1 cd
10 %	369.0 cd

Peak intensity: 3690.4 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	205.0 lx
30.0 %	123.0 lx
10.0 %	41.0 lx
5.0 %	20.5 lx
3.0 %	12.3 lx

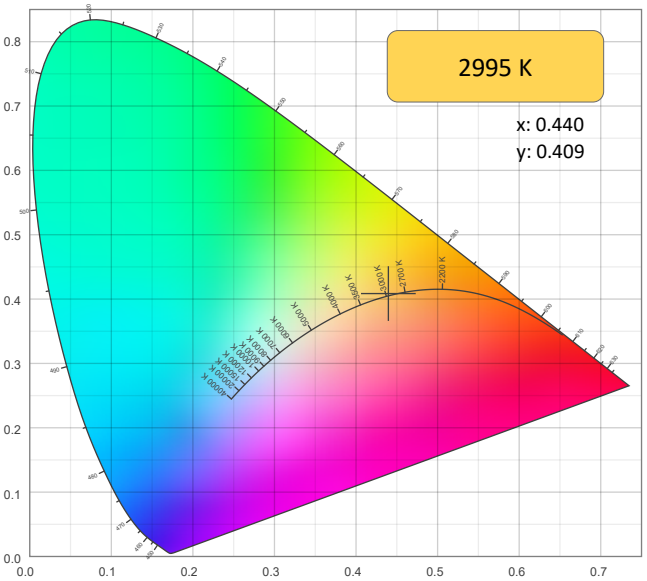
Peak illuminance: 410.0 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

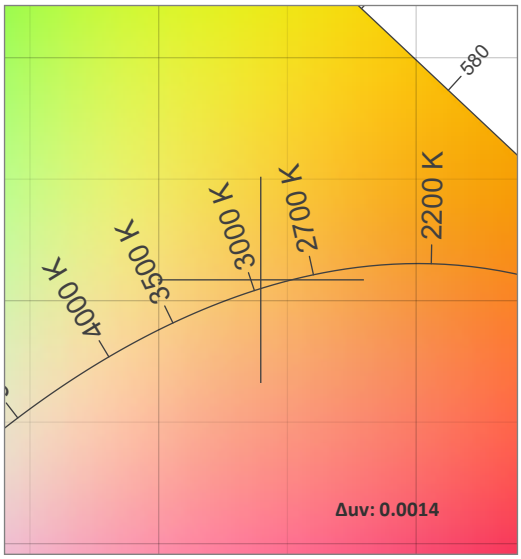
Well Batten 14: Standard Optics - Warm White-18hrs

Chromaticity

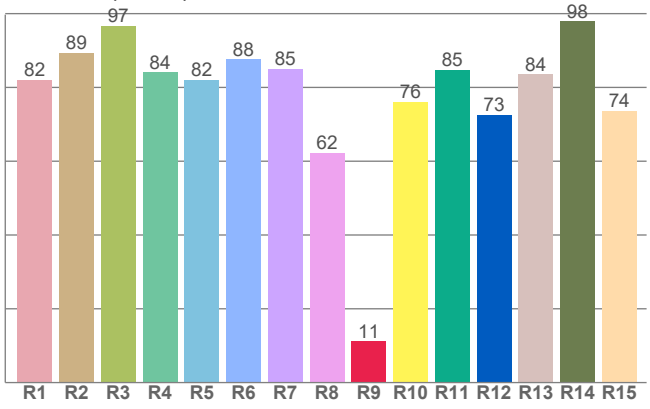
CIE 1931



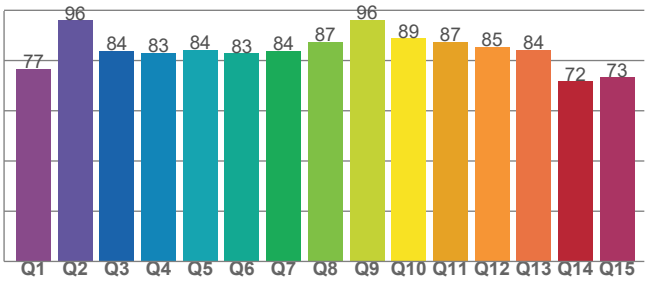
CIE 1931 - Zoom



CRI: 83.6 (R1-R8)



CQS: 82.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2995 K	0.440	0.409

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0014	0.409	0.250

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.6	11.2	82.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
67	85.1	98.1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-18hrs

TM-30 Details

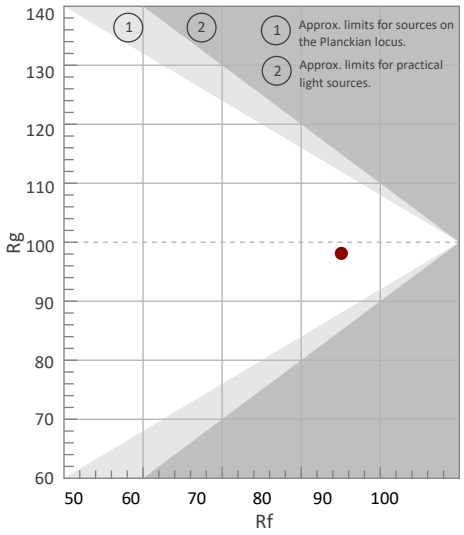
Rf 85.1

Fidelity Index (Rg)

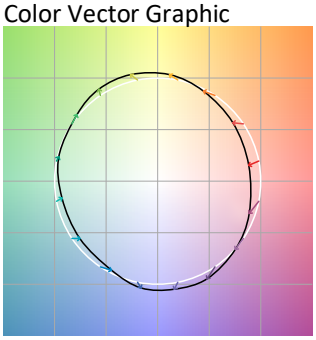
Rg 98.1

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	81	-10%	-2%
2	82	-8%	7%
3	78	-3%	12%
4	86	4%	9%
5	90	6%	6%
6	90	6%	-2%
7	84	1%	-10%
8	92	-1%	-5%
9	89	-6%	-2%
10	87	-6%	4%
11	84	-3%	11%
12	86	5%	4%
13	89	6%	-5%
14	83	5%	-13%
15	80	-1%	-13%
16	81	-7%	-13%

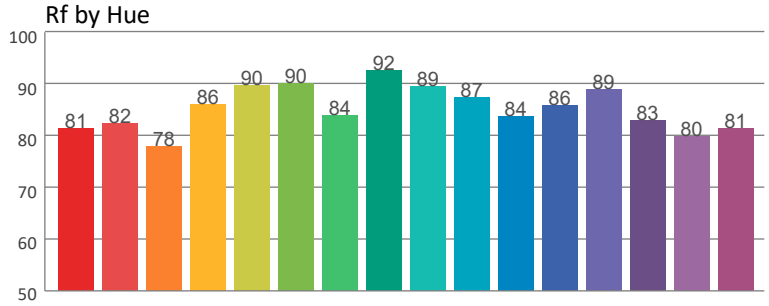


Color Vector Graphic

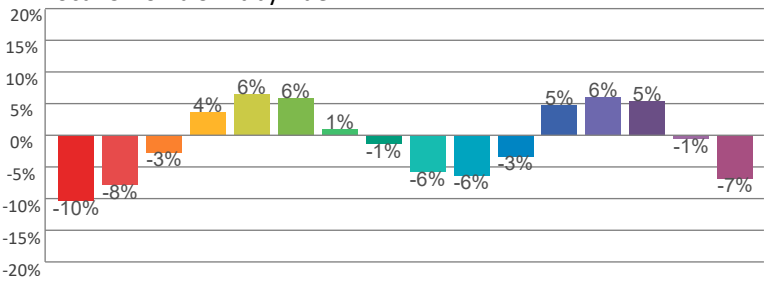


Color Distortion Graphic

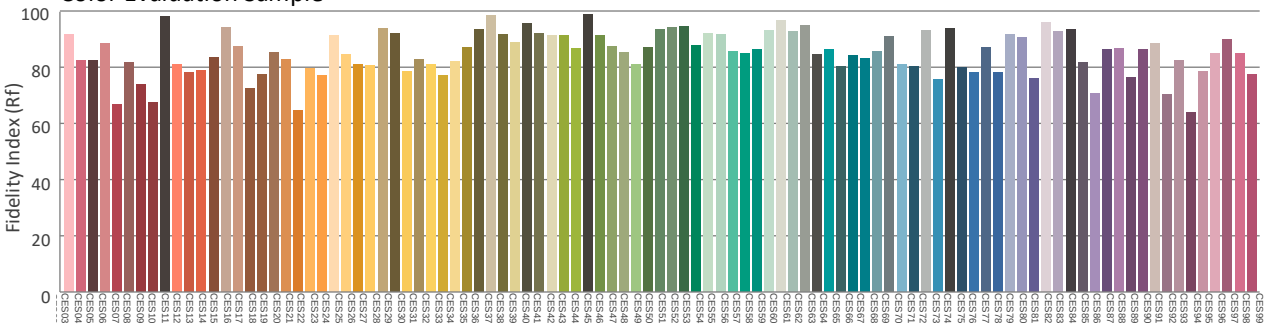
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-AC

Report Summary

Measurements

Fixture Output: 3764 lm
Fixture Peak: 25276 cd
Fixture Efficacy: 47 lm/W
Intensity @ 5m: 1010 lux
Color Temperature: 2996 K
CRI: 82.8 CRI R9 Value: 7.8
CQS: 81.7
TLCI: 66
TM-30 Rf: 84.3
TM-30 Rg: 97.8
Beam Angle (50%): 16.1°
Field Angle (10%): 34.1°
Cutoff Angle (3%): 61.9°

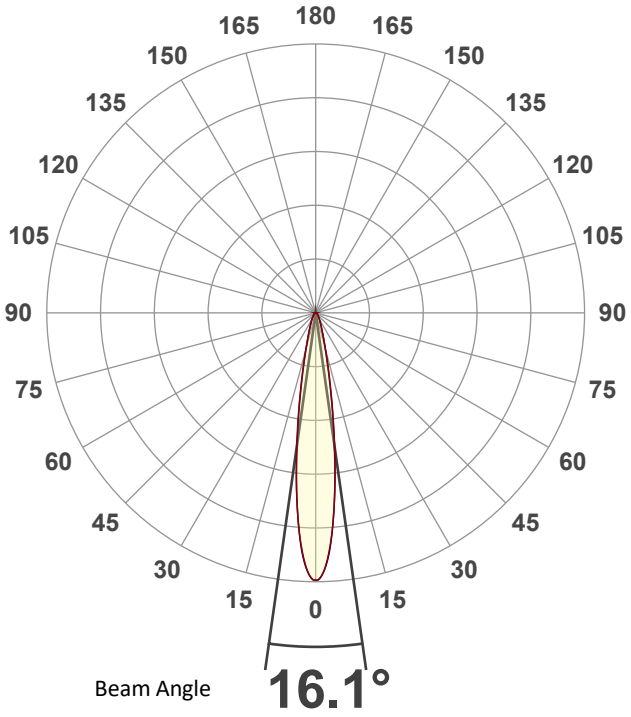
Conditions

AC Supply: 119 V, 60 Hz
Power: 81.15 W
Current: 0.682 A
Power Factor: 1.0

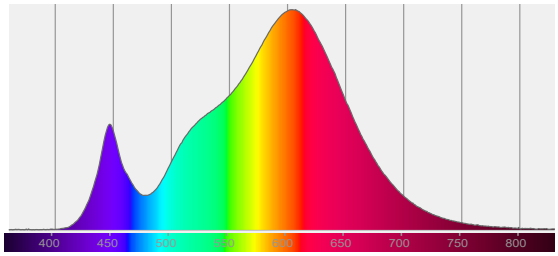
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.437
Y: 0.404

Light Quality

CRI: 82.8

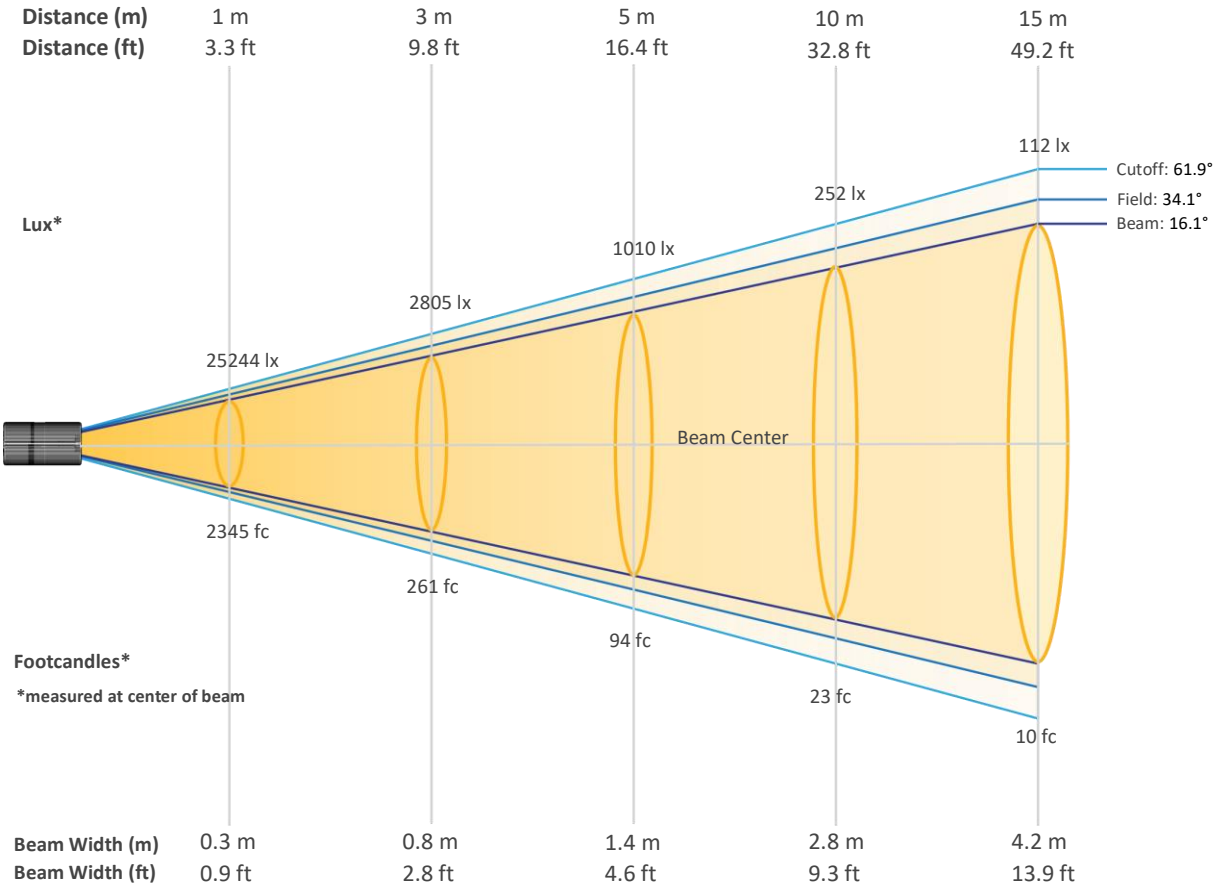
Color Temperature

2996 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-AC

Beam Details

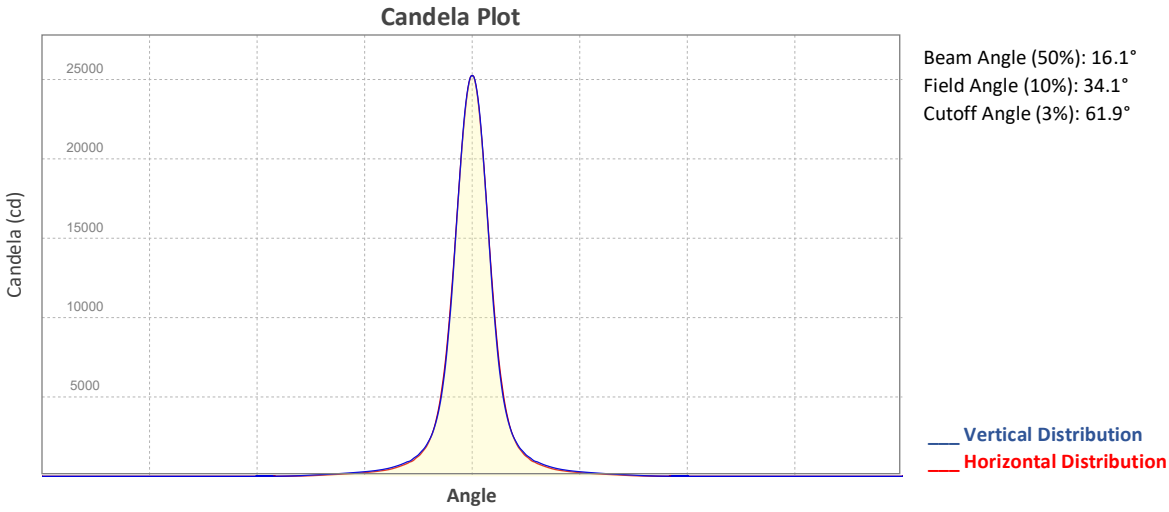


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	25244	6311	2805	1578	1010	701	515	394	312	252
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	209	175	149	129	112	99	87	78	70	63
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2345	586	261	147	94	65	48	37	29	23
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	19	16	14	12	10	9	8	7	6	6

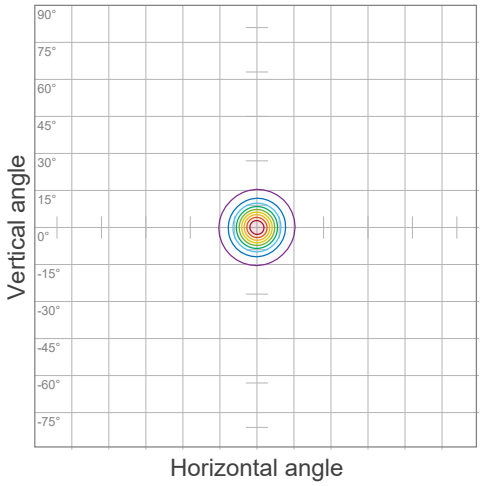
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-AC



ISO Diagrams

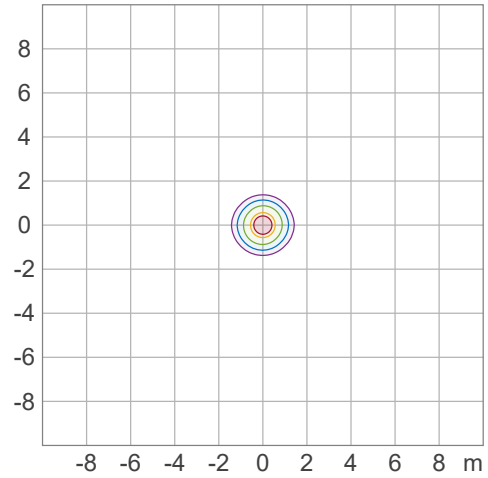
ISO Candela Diagram



90 %	22719.9 cd
80 %	20195.5 cd
70 %	17671.0 cd
60 %	15146.6 cd
50 %	12622.2 cd
40 %	10097.7 cd
30 %	7573.3 cd
20 %	5048.9 cd
10 %	2524.4 cd

Peak intensity: 25244.3 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1402.5 lx
30.0 %	841.5 lx
10.0 %	280.5 lx
5.0 %	140.2 lx
3.0 %	84.1 lx

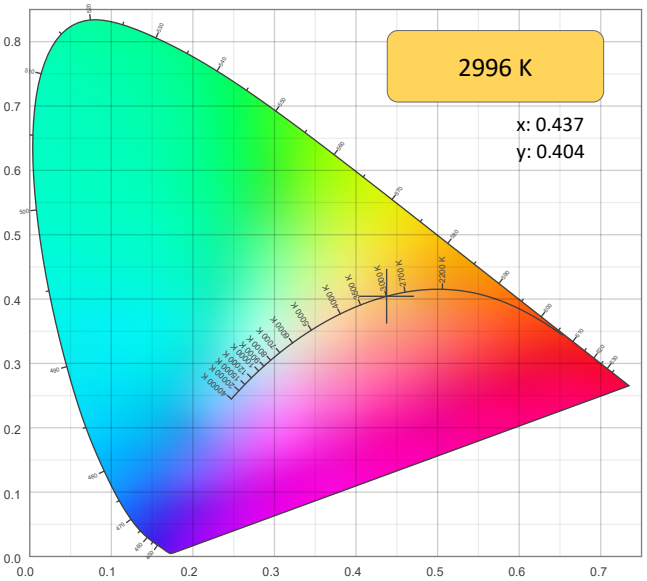
Peak illuminance: 2804.9 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

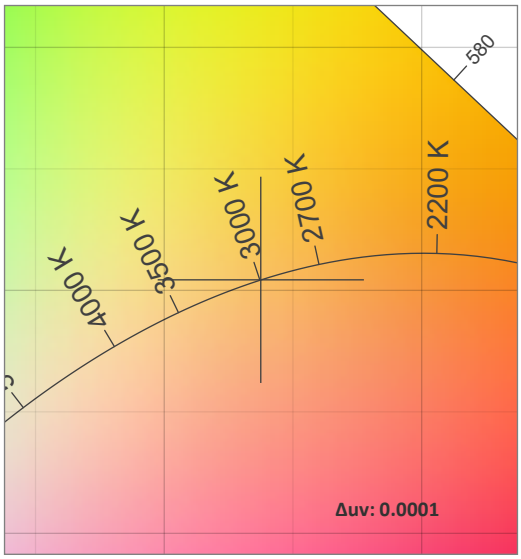
Well Batten 14: Standard Optics - Warm White-AC

Chromaticity

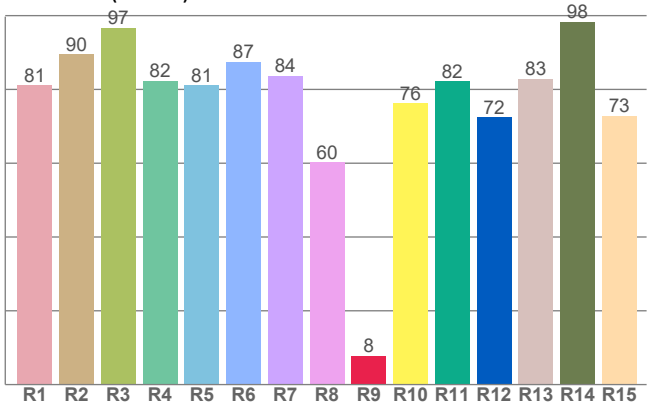
CIE 1931



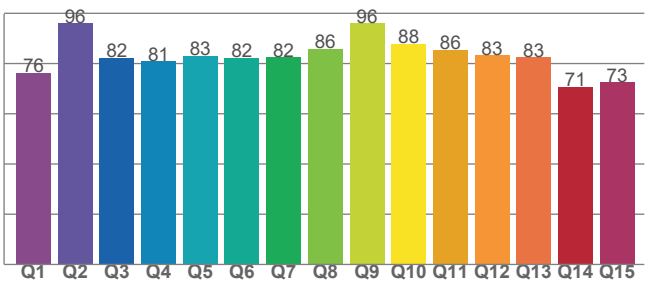
CIE 1931 - Zoom



CRI: 82.8 (R1-R8)



CQS: 81.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2996 K	0.437	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0001	0.404	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
82.8	7.8	81.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
66	84.3	97.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-AC

TM-30 Details

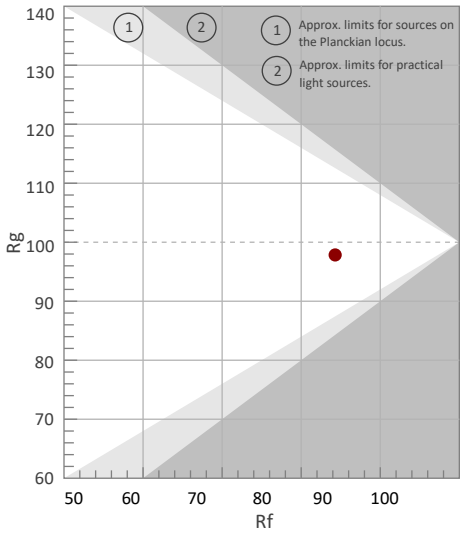
Rf 84.3

Fidelity Index (Rg)

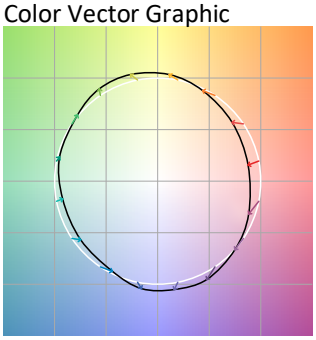
Rg 97.8

Gammut Index (Rg)

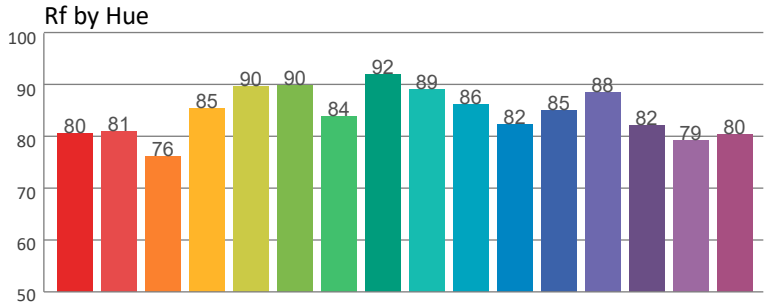
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	80	-11%	-2%
2	81	-8%	7%
3	76	-3%	12%
4	85	4%	9%
5	90	7%	6%
6	90	6%	-3%
7	84	0%	-10%
8	92	-2%	-4%
9	89	-6%	-1%
10	86	-6%	6%
11	82	-3%	12%
12	85	5%	5%
13	88	6%	-5%
14	82	6%	-13%
15	79	-1%	-14%
16	80	-7%	-14%

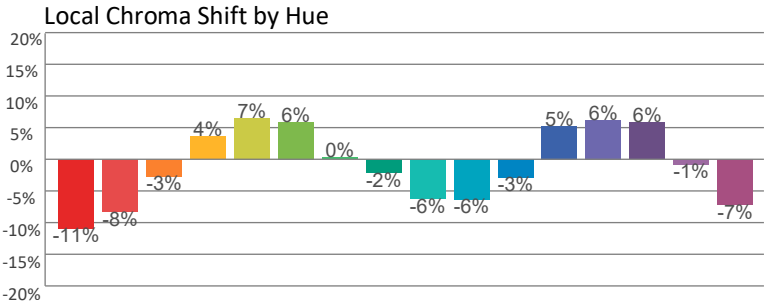


Color Vector Graphic

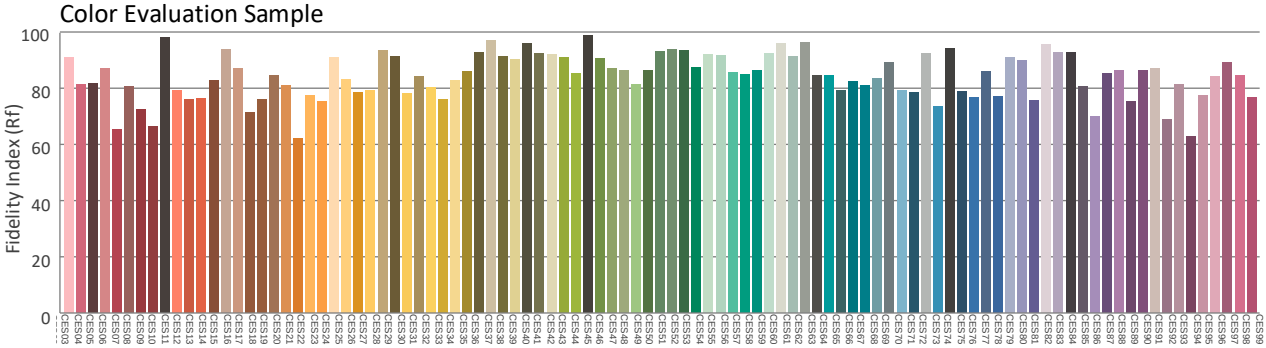


Color Distortion Graphic





Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-Off

Report Summary

Measurements

Fixture Output: 2195 lm
Fixture Peak: 14657 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 586 lux
Color Temperature: 2993 K
CRI: 83.1 CRI R9 Value: 9.3
CQS: 82.3
TLCI: 67
TM-30 Rf: 84.6
TM-30 Rg: 98.0
Beam Angle (50%): 16.2°
Field Angle (10%): 34.2°
Cutoff Angle (3%): 61.9°

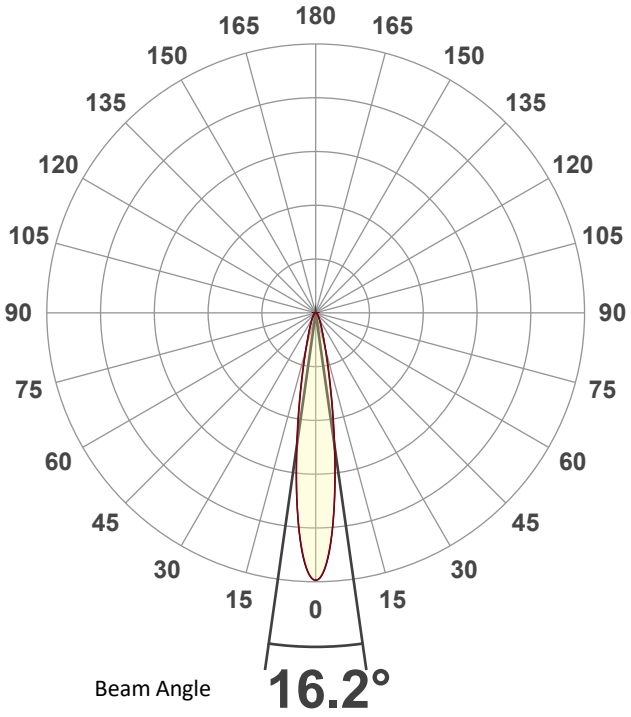
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 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 Davie, FL on 1/8/2025 to LM-63-2002 Standards.

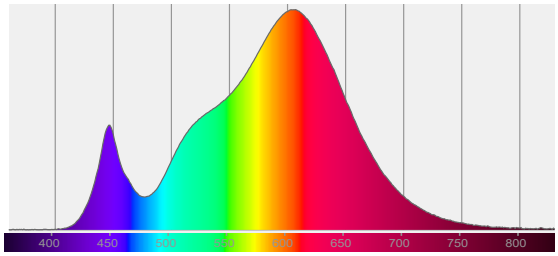
Overall Measurement

Angular Beam Distribution



Beam Angle 16.2°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.439
Y: 0.406

Light Quality

CRI: 83.1

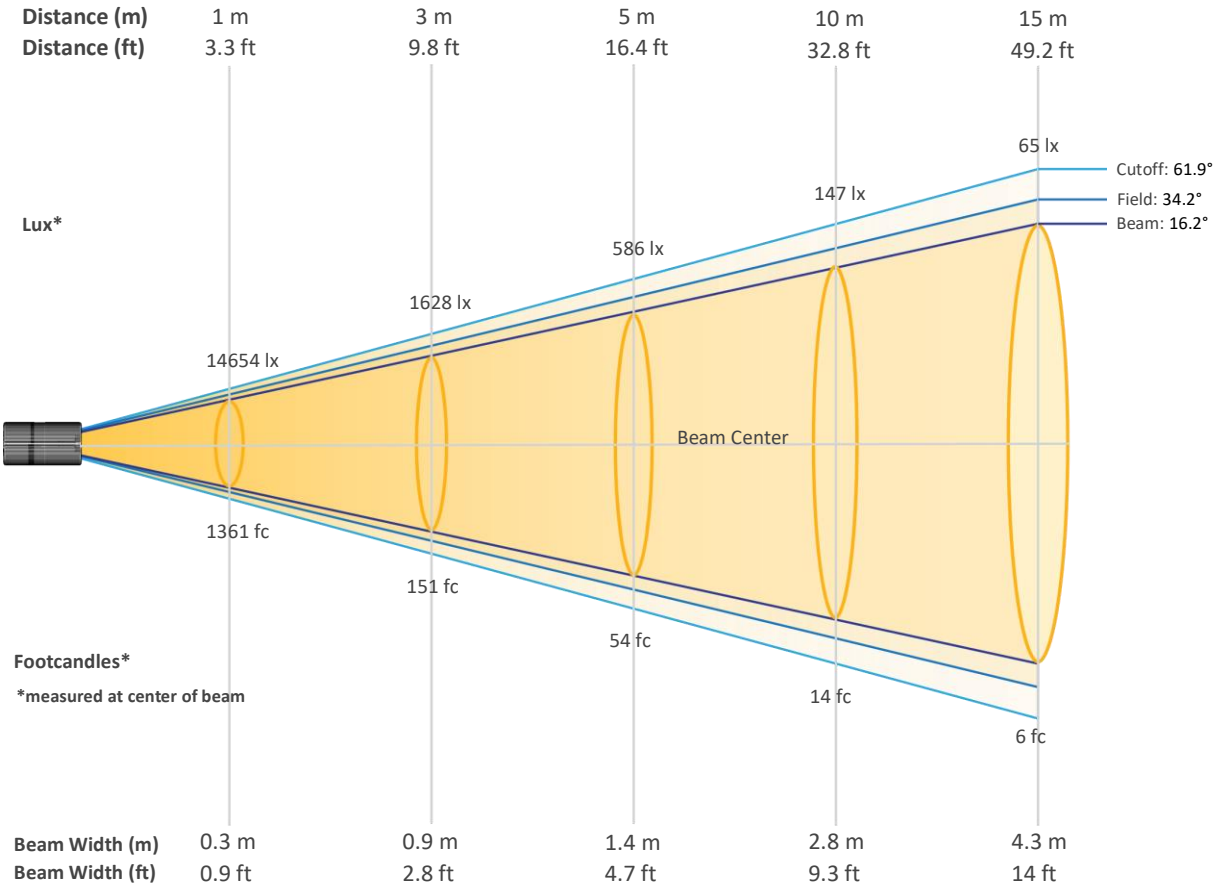
Color Temperature

2993 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-Off

Beam Details

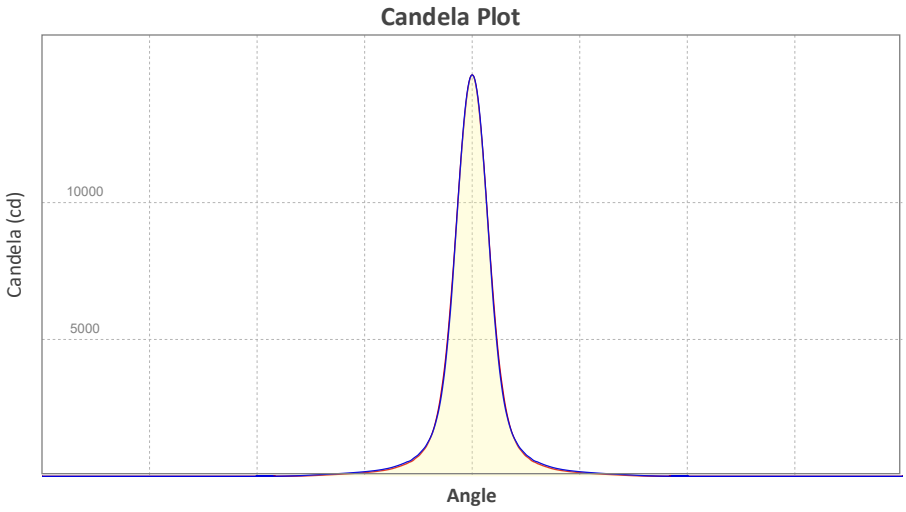


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	14654	3663	1628	916	586	407	299	229	181	147
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	121	102	87	75	65	57	51	45	41	37
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1361	340	151	85	54	38	28	21	17	14
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	11	9	8	7	6	5	5	4	4	3

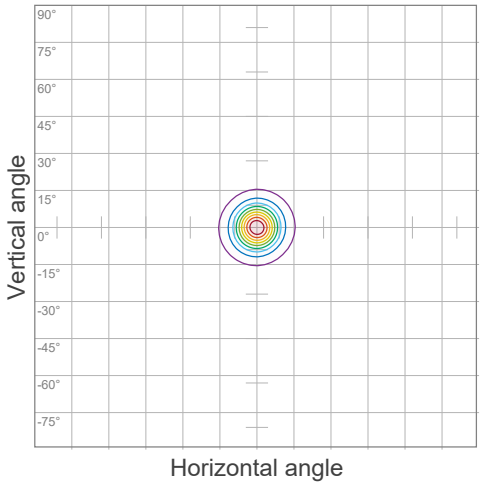
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-Off



ISO Diagrams

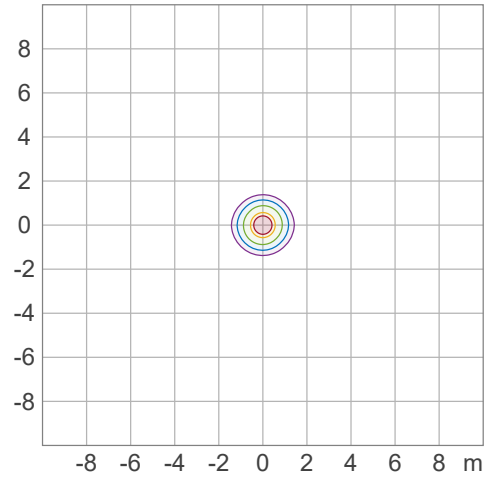
ISO Candela Diagram



90 %	13188.4 cd
80 %	11723.1 cd
70 %	10257.7 cd
60 %	8792.3 cd
50 %	7326.9 cd
40 %	5861.5 cd
30 %	4396.1 cd
20 %	2930.8 cd
10 %	1465.4 cd

Peak intensity: 14653.8 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	814.1 lx
30.0 %	488.5 lx
10.0 %	162.8 lx
5.0 %	81.4 lx
3.0 %	48.8 lx

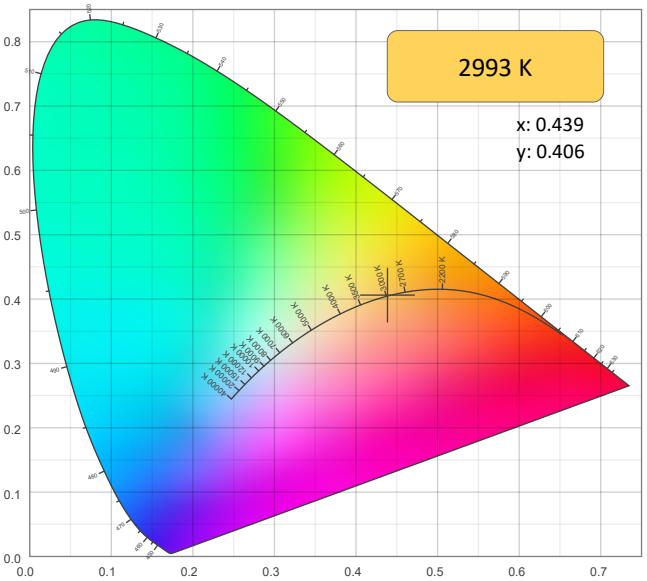
Peak illuminance: 1628.2 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

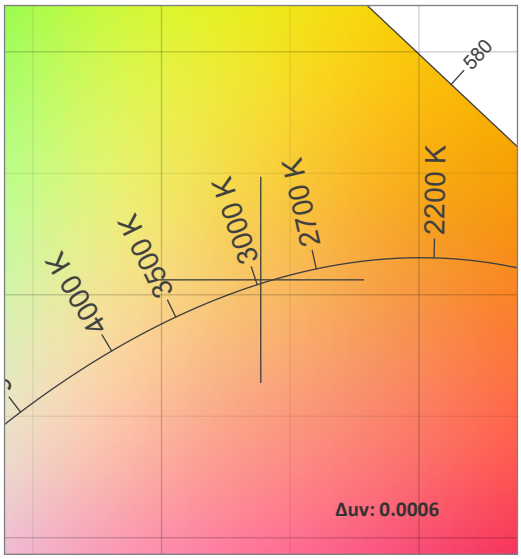
Well Batten 14: Standard Optics - Warm White-Off

Chromaticity

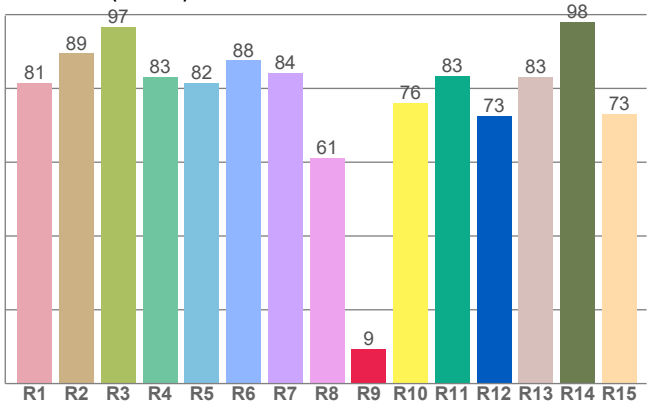
CIE 1931



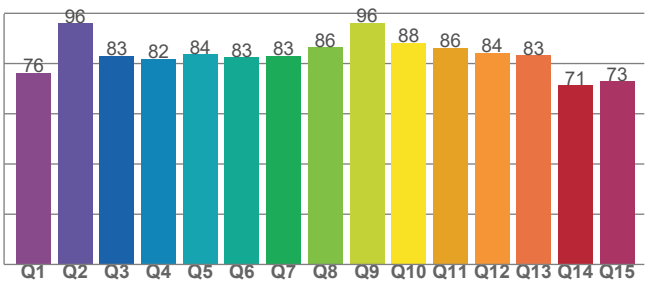
CIE 1931 - Zoom



CRI: 83.1 (R1-R8)



CQS: 82.3



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2993 K	0.439	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0006	0.406	0.251

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
83.1	9.3	82.3

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
67	84.6	98.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - Warm White-Off

TM-30 Details

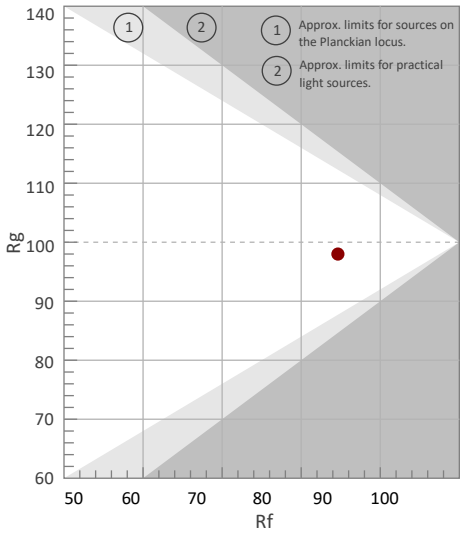
Rf 84.6

Fidelity Index (Rg)

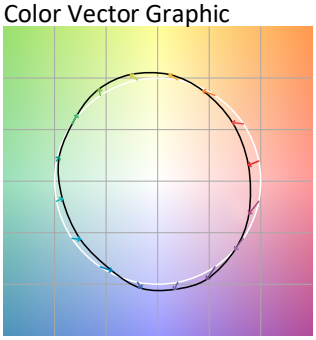
Rg 98.0

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	81	-11%	-2%
2	82	-8%	7%
3	77	-3%	12%
4	86	4%	9%
5	90	7%	6%
6	90	6%	-2%
7	84	1%	-10%
8	92	-2%	-5%
9	89	-6%	-2%
10	87	-6%	5%
11	83	-3%	11%
12	85	5%	5%
13	89	6%	-5%
14	82	6%	-13%
15	79	-1%	-13%
16	81	-7%	-14%

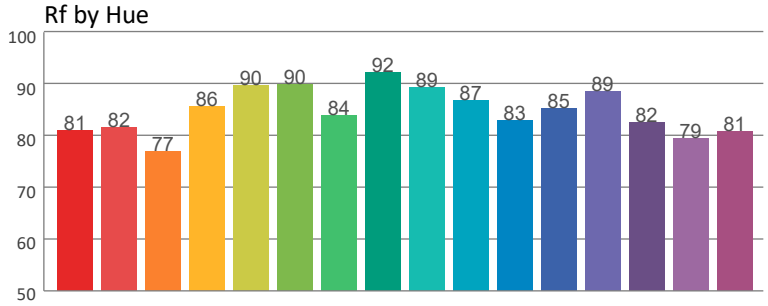


Color Vector Graphic

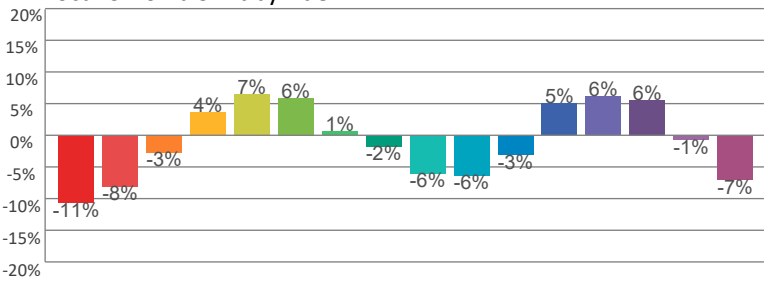


Color Distortion Graphic

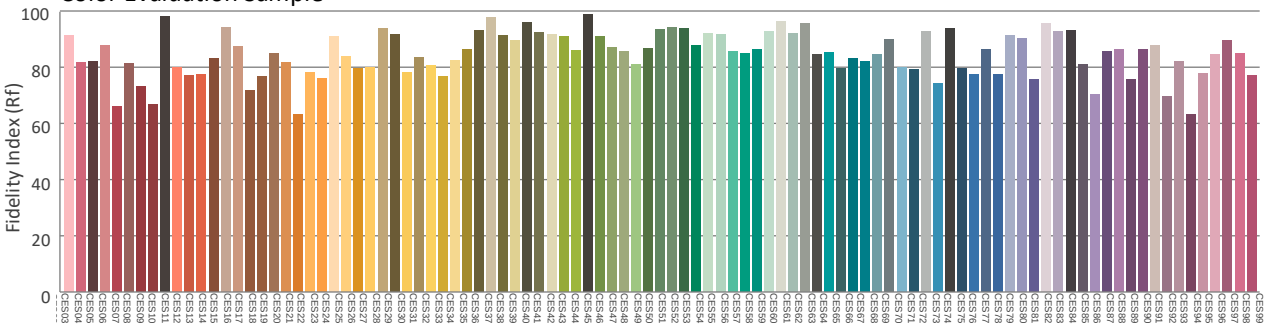
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 2800K-5hrs

Report Summary

Measurements

Fixture Output: 2327 lm
Fixture Peak: 15569 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 622 lux
Color Temperature: 2573 K
CRI: 88.9 CRI R9 Value: 89.2
CQS: 87.6
TLCI: 70
TM-30 Rf: 88.4
TM-30 Rg: 108.8
Beam Angle (50%): 16.2°
Field Angle (10%): 34.2°
Cutoff Angle (3%): 61.8°

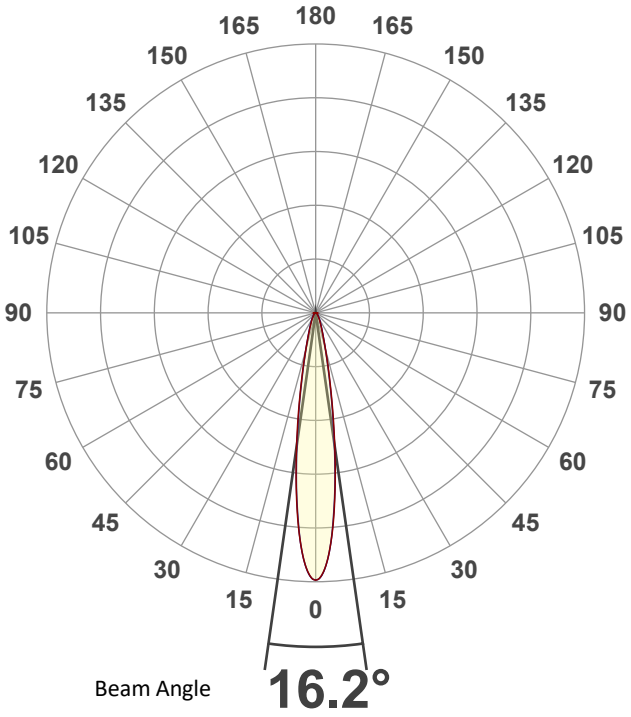
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

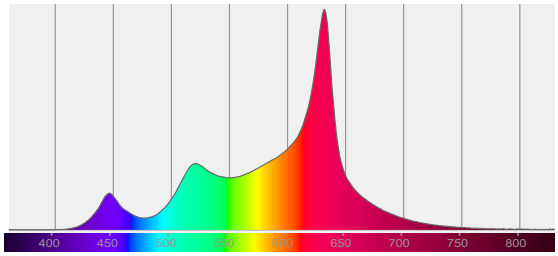
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.467
Y: 0.406

Light Quality

CRI: 88.9

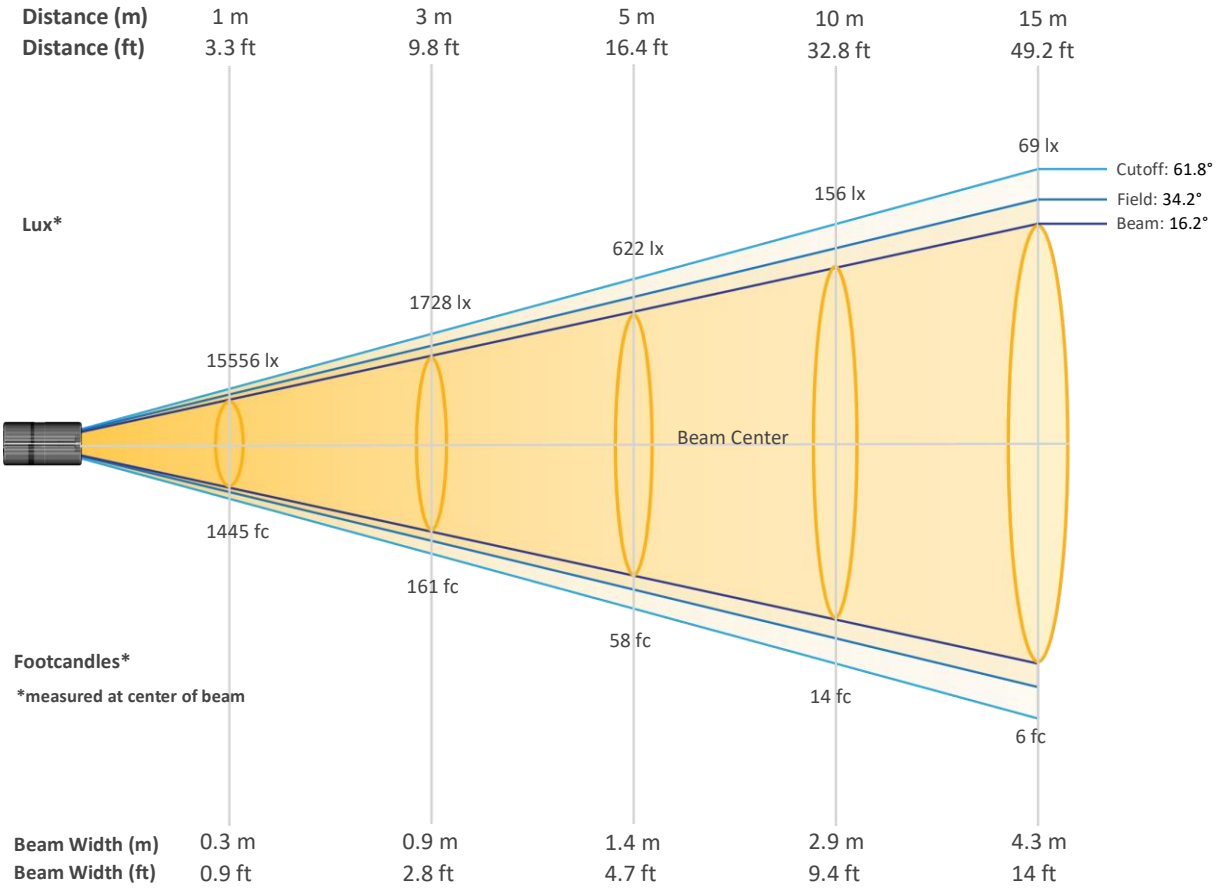
Color Temperature

2573 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 2800K-5hrs

Beam Details

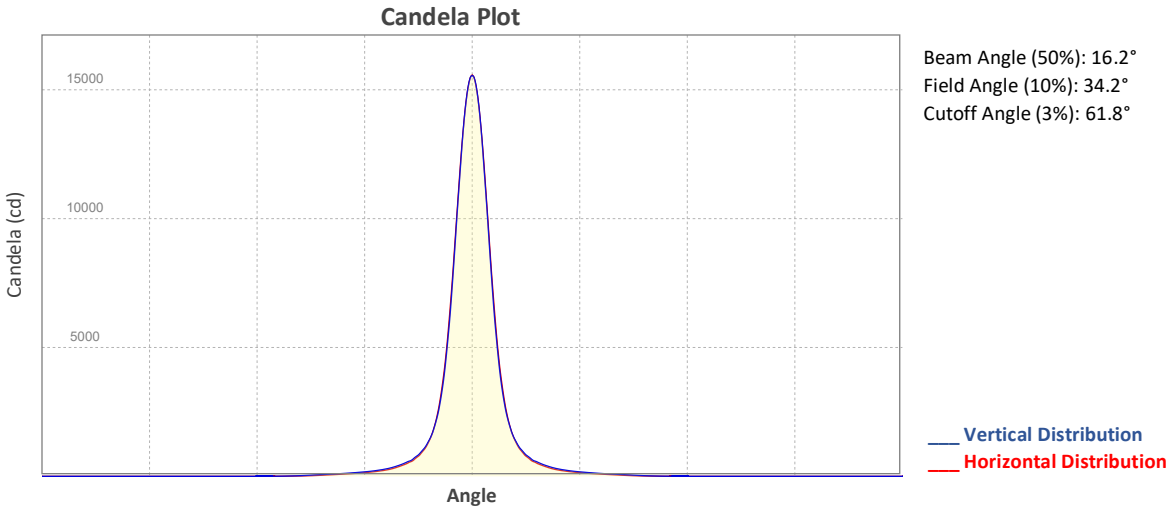


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15556	3889	1728	972	622	432	317	243	192	156
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	129	108	92	79	69	61	54	48	43	39
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1445	361	161	90	58	40	29	23	18	14
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	12	10	9	7	6	6	5	4	4	4

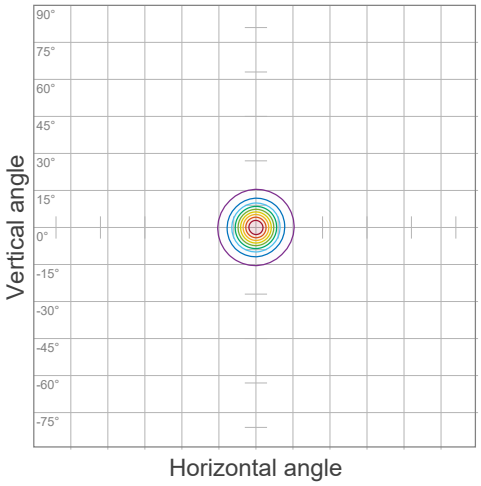
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 2800K-5hrs



ISO Diagrams

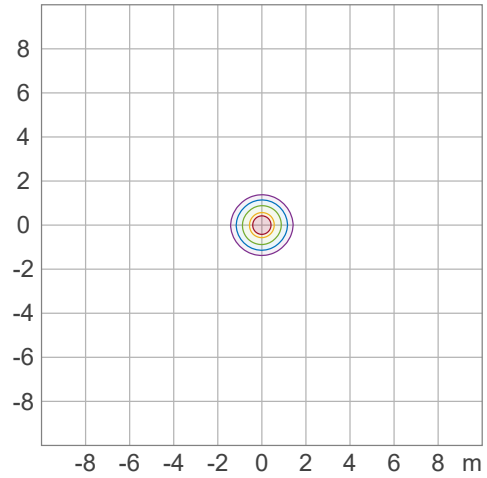
ISO Candela Diagram



90 %	14000.5 cd
80 %	12444.9 cd
70 %	10889.3 cd
60 %	9333.7 cd
50 %	7778.1 cd
40 %	6222.4 cd
30 %	4666.8 cd
20 %	3111.2 cd
10 %	1555.6 cd

Peak intensity: 15556.1 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	864.2 lx
30.0 %	518.5 lx
10.0 %	172.8 lx
5.0 %	86.4 lx
3.0 %	51.9 lx

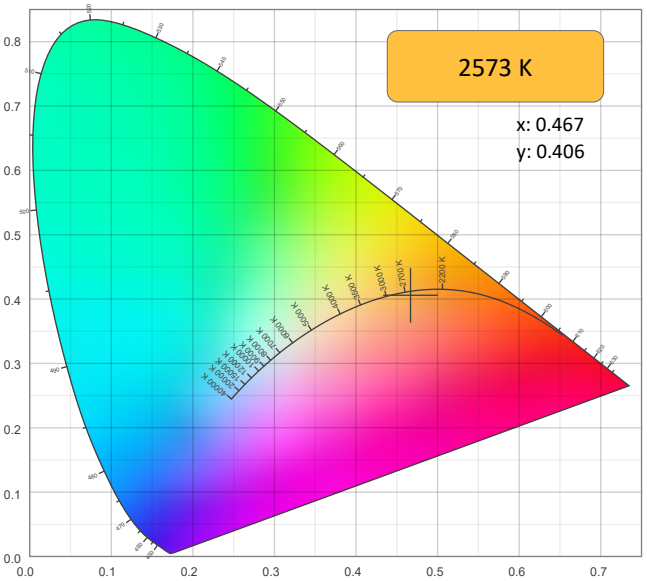
Peak illuminance: 1728.5 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

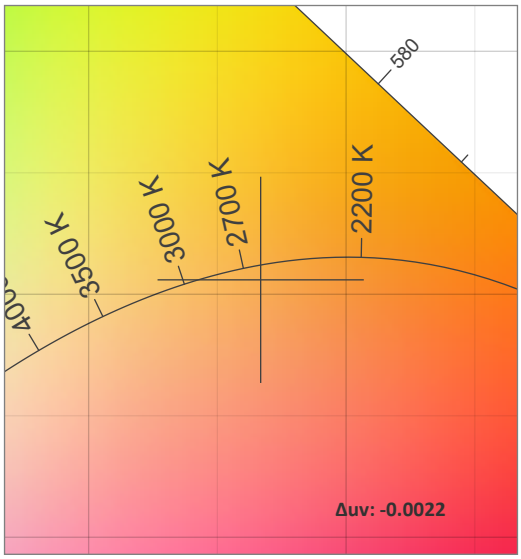
Well Batten 14: Standard Optics - 2800K-5hrs

Chromaticity

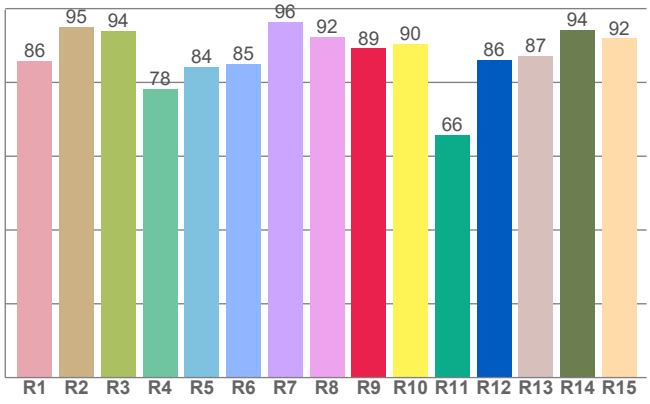
CIE 1931



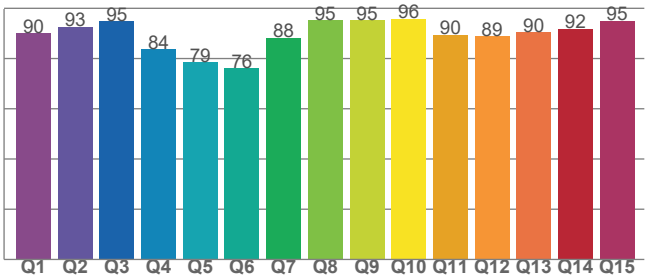
CIE 1931 - Zoom



CRI: 88.9 (R1-R8)



CQS: 87.6



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2573 K	0.467	0.406

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0022	0.406	0.269

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
88.9	89.2	87.6

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
70	88.4	108.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 2800K-5hrs

TM-30 Details

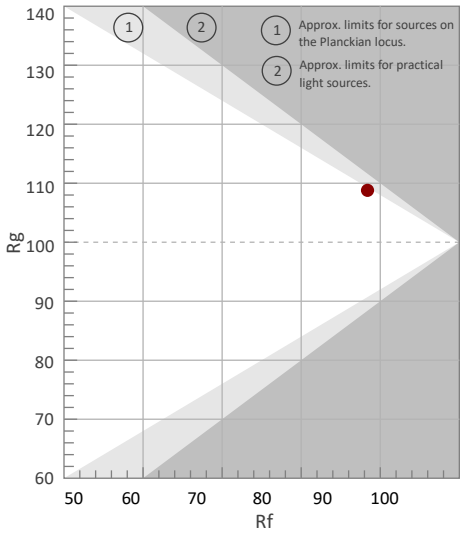
Rf 88.4

Fidelity Index (Rg)

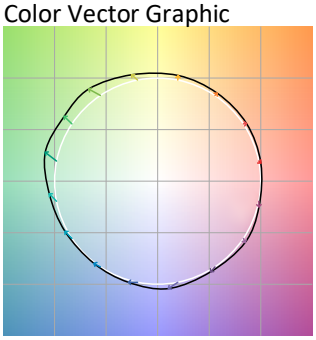
Rg 108.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	2%	-2%
2	91	3%	-1%
3	90	3%	-1%
4	92	4%	0%
5	91	6%	5%
6	83	11%	6%
7	84	10%	-2%
8	79	12%	-6%
9	83	5%	-9%
10	85	2%	-9%
11	90	1%	-7%
12	86	2%	-9%
13	86	4%	-10%
14	90	2%	-6%
15	91	4%	-2%
16	91	1%	-5%

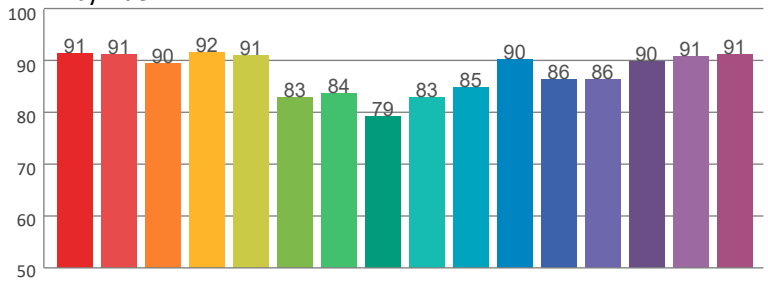


Color Vector Graphic

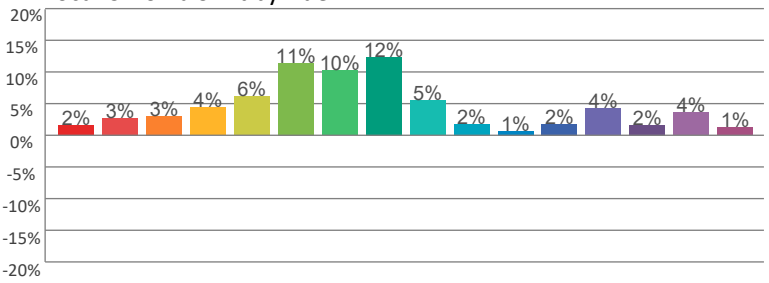


Color Distortion Graphic

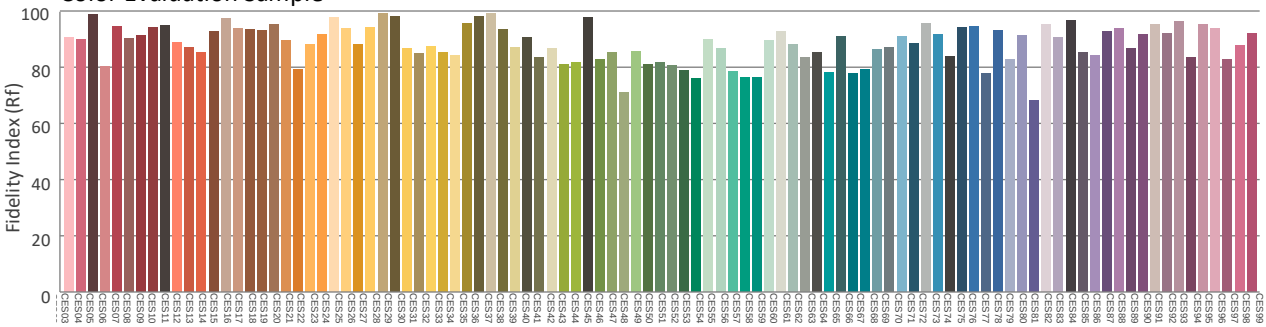
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 2800K-AC

Report Summary

Measurements

Fixture Output: 3961 lm
Fixture Peak: 26250 cd
Fixture Efficacy: 46 lm/W
Intensity @ 5m: 1049 lux
Color Temperature: 2573 K
CRI: 88.6 CRI R9 Value: 88.7
CQS: 87.5
TLCI: 69
TM-30 Rf: 88.1
TM-30 Rg: 109.3
Beam Angle (50%): 16.3°
Field Angle (10%): 34.3°
Cutoff Angle (3%): 61.9°

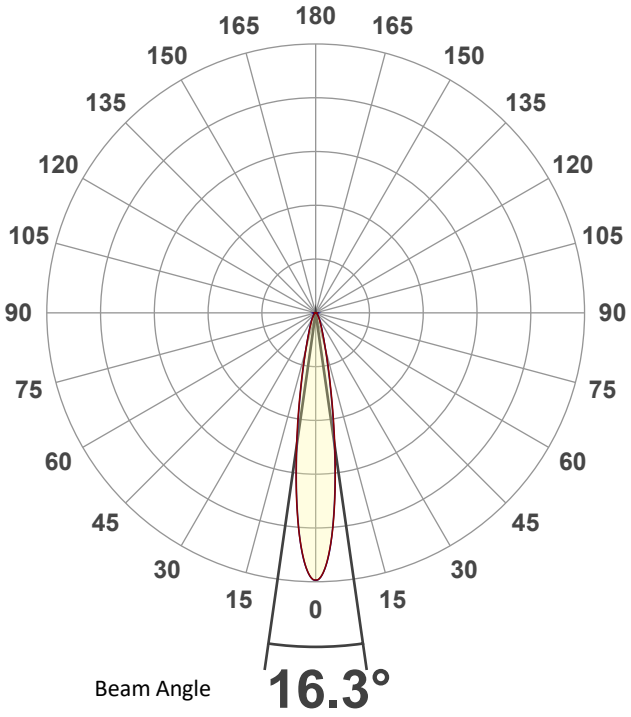
Conditions

AC Supply: 118 V, 60 Hz
Power: 85.44 W
Current: 0.722 A
Power Factor: 1.0

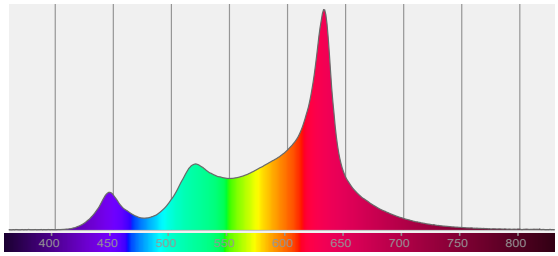
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.466
Y: 0.404

Light Quality

CRI: 88.6

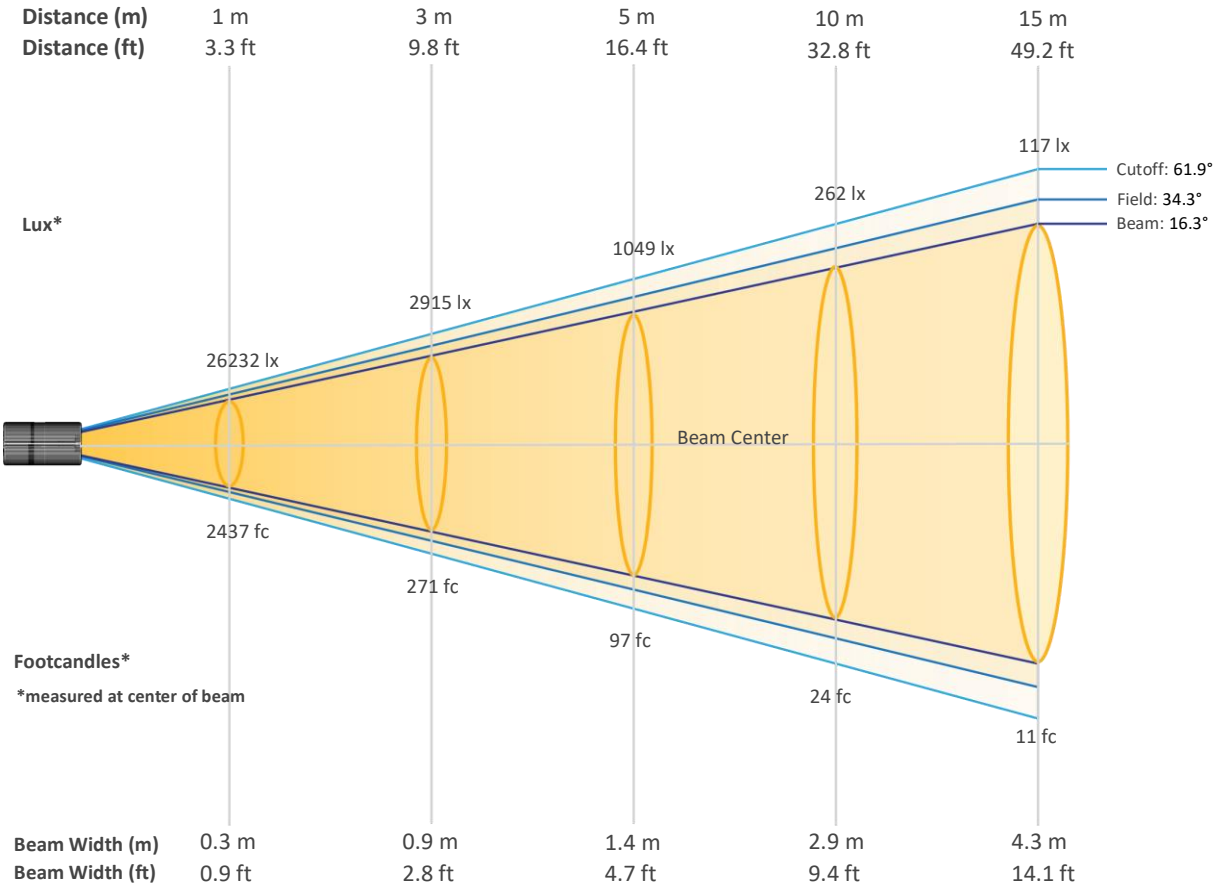
Color Temperature

2573 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 2800K-AC

Beam Details

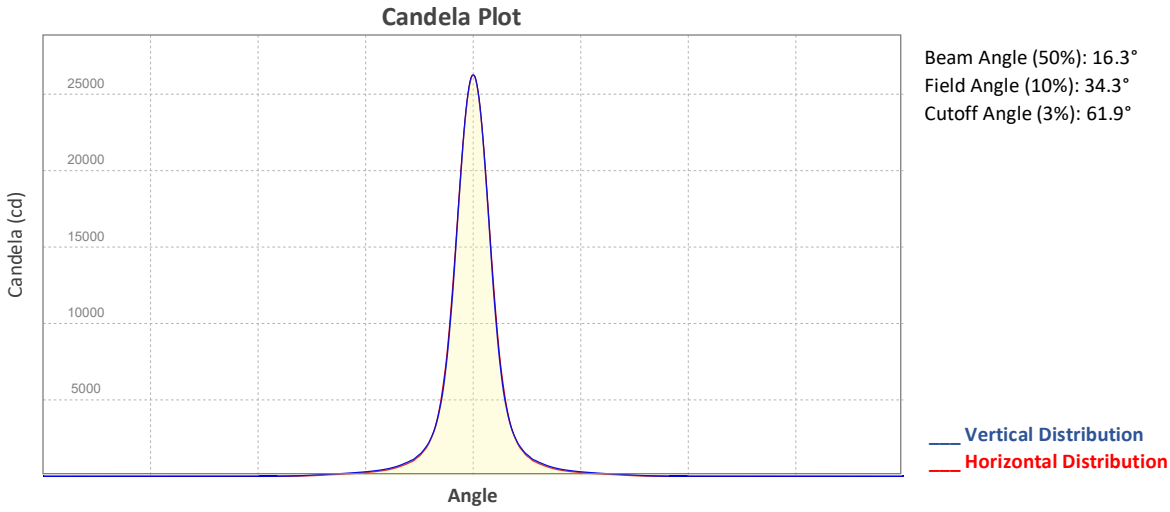


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	26232	6558	2915	1640	1049	729	535	410	324	262
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	217	182	155	134	117	102	91	81	73	66
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2437	609	271	152	97	68	50	38	30	24
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	20	17	14	12	11	10	8	8	7	6

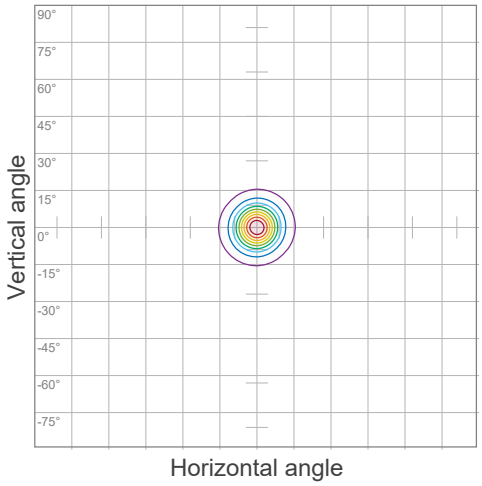
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 2800K-AC



ISO Diagrams

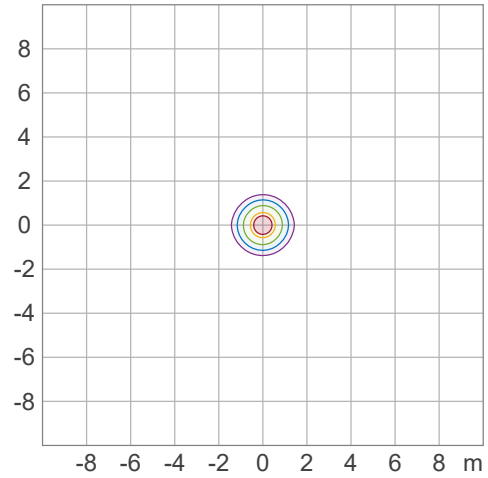
ISO Candela Diagram



90 %	23609.1 cd
80 %	20985.9 cd
70 %	18362.7 cd
60 %	15739.4 cd
50 %	13116.2 cd
40 %	10493.0 cd
30 %	7869.7 cd
20 %	5246.5 cd
10 %	2623.2 cd

Peak intensity: 26232.4 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1457.4 lx
30.0 %	874.4 lx
10.0 %	291.5 lx
5.0 %	145.7 lx
3.0 %	87.4 lx

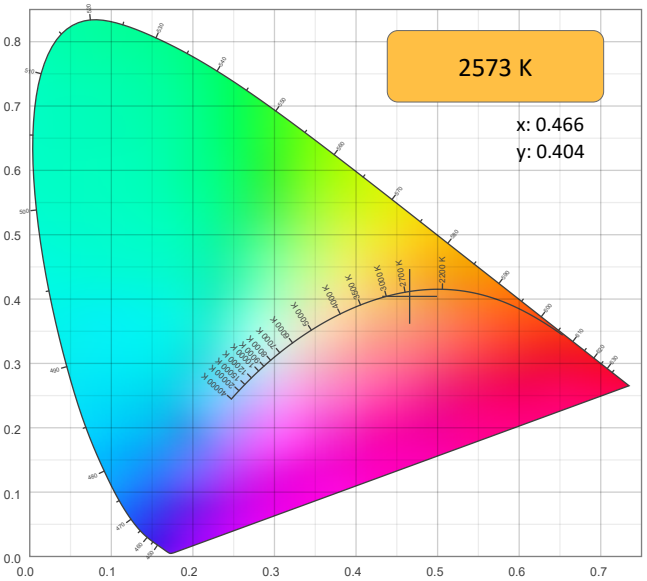
Peak illuminance: 2914.7 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

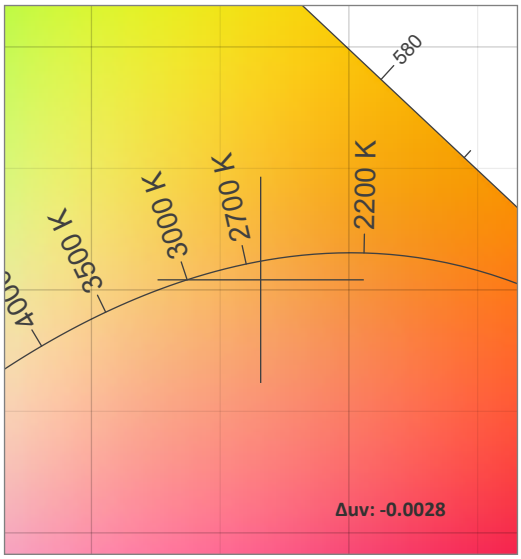
Well Batten 14: Standard Optics - 2800K-AC

Chromaticity

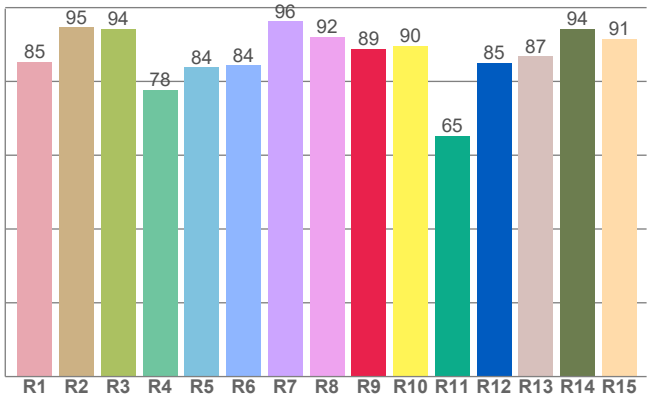
CIE 1931



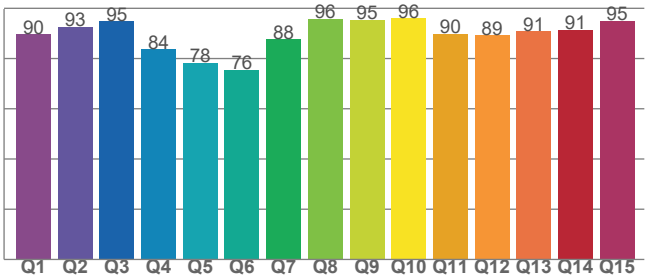
CIE 1931 - Zoom



CRI: 88.6 (R1-R8)



CQS: 87.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2573 K	0.466	0.404

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0028	0.404	0.269

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
88.6	88.7	87.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
69	88.1	109.3

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 2800K-AC

TM-30 Details

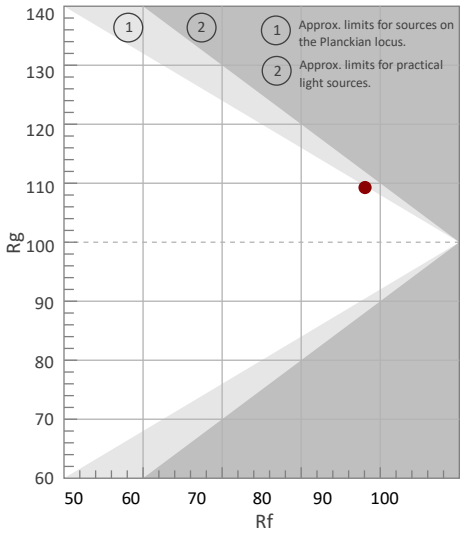
Rf 88.1

Fidelity Index (Rg)

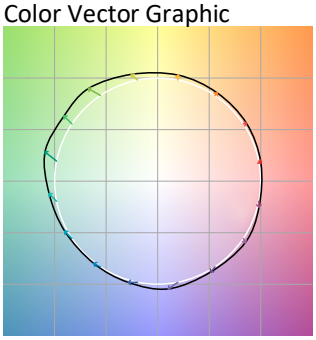
Rg 109.3

Gammut Index (Rg)

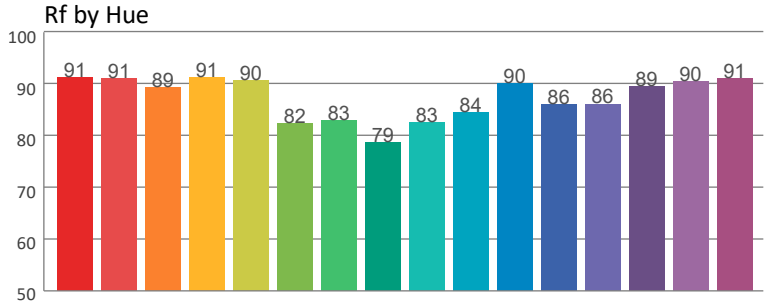
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	91	2%	-2%
2	91	3%	-1%
3	89	3%	0%
4	91	5%	1%
5	90	7%	5%
6	82	12%	6%
7	83	11%	-2%
8	79	13%	-6%
9	83	6%	-9%
10	84	2%	-10%
11	90	1%	-7%
12	86	2%	-9%
13	86	4%	-10%
14	89	2%	-6%
15	90	4%	-2%
16	91	1%	-5%

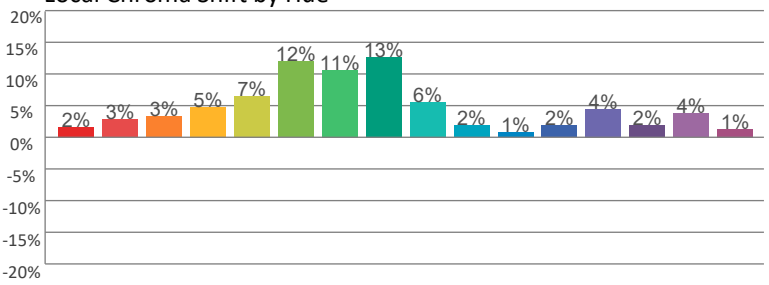


Color Vector Graphic

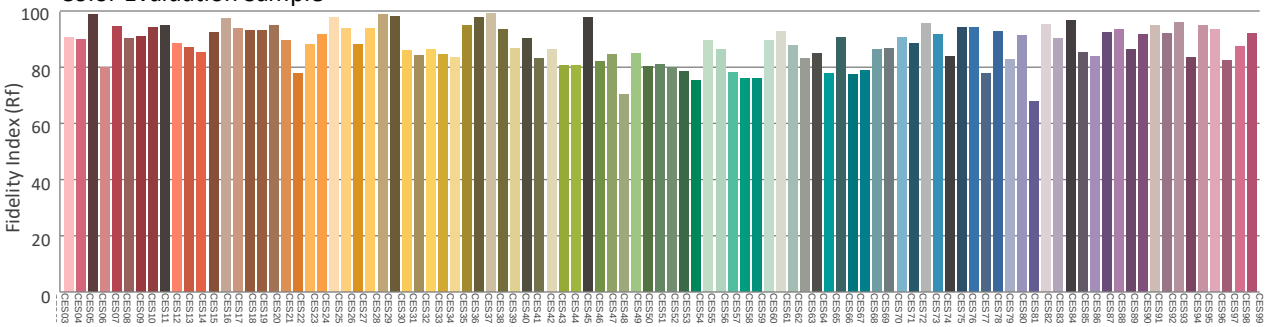


Color Distortion Graphic





Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 3200K-5hrs

Report Summary

Measurements

Fixture Output: 2350 lm
Fixture Peak: 15719 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 629 lux
Color Temperature: 2761 K
CRI: 90.3 CRI R9 Value: 92.0
CQS: 89.4
TLCI: 73
TM-30 Rf: 89.7
TM-30 Rg: 108.0
Beam Angle (50%): 16.2°
Field Angle (10%): 34.2°
Cutoff Angle (3%): 61.7°

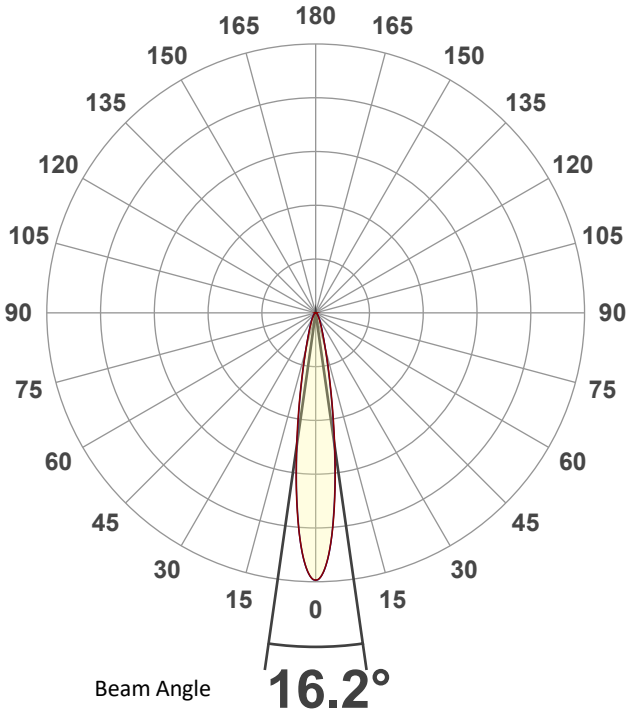
Conditions

AC Supply: 120 V, 60.1 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

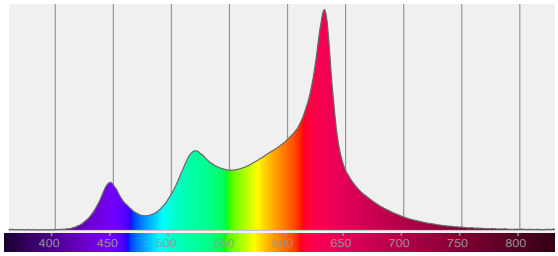
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.452
Y: 0.405

Light Quality

CRI: 90.3

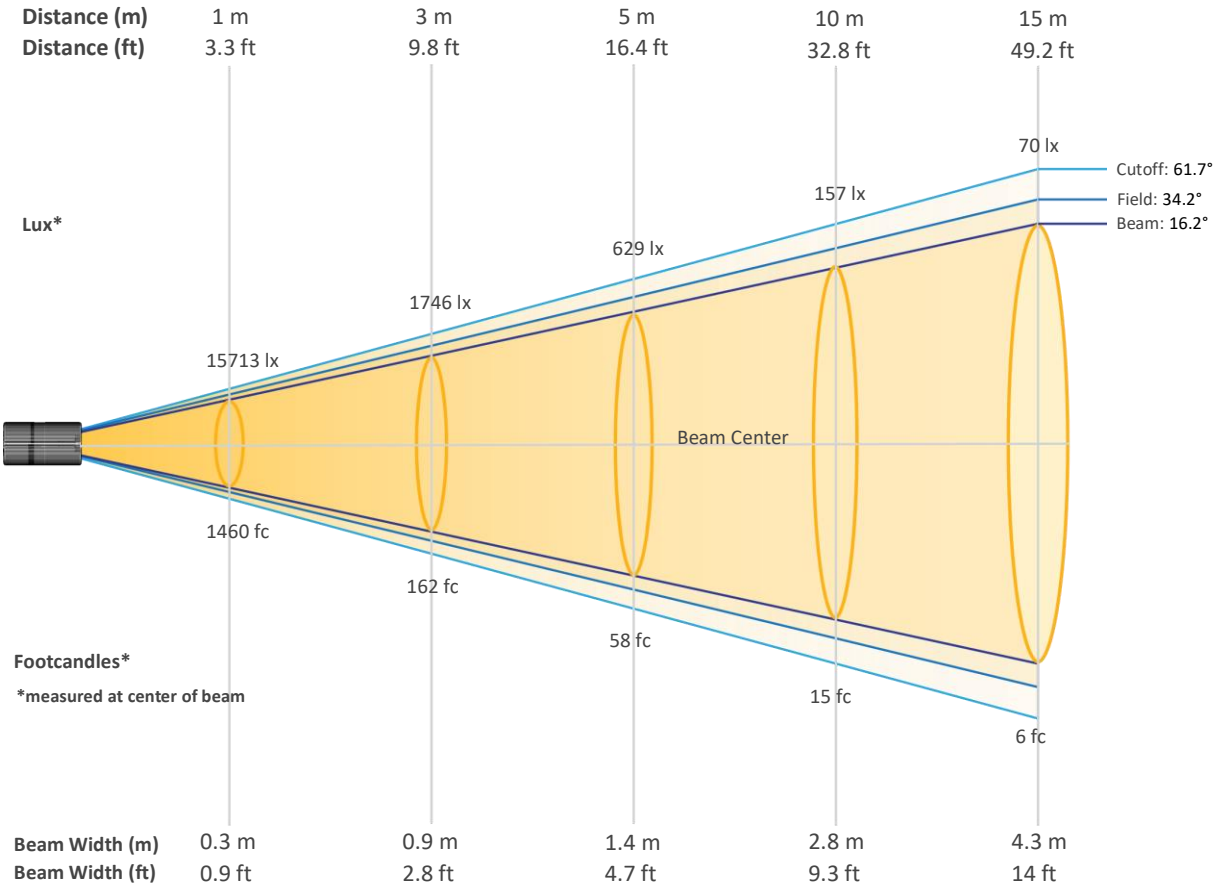
Color Temperature

2761 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 3200K-5hrs

Beam Details

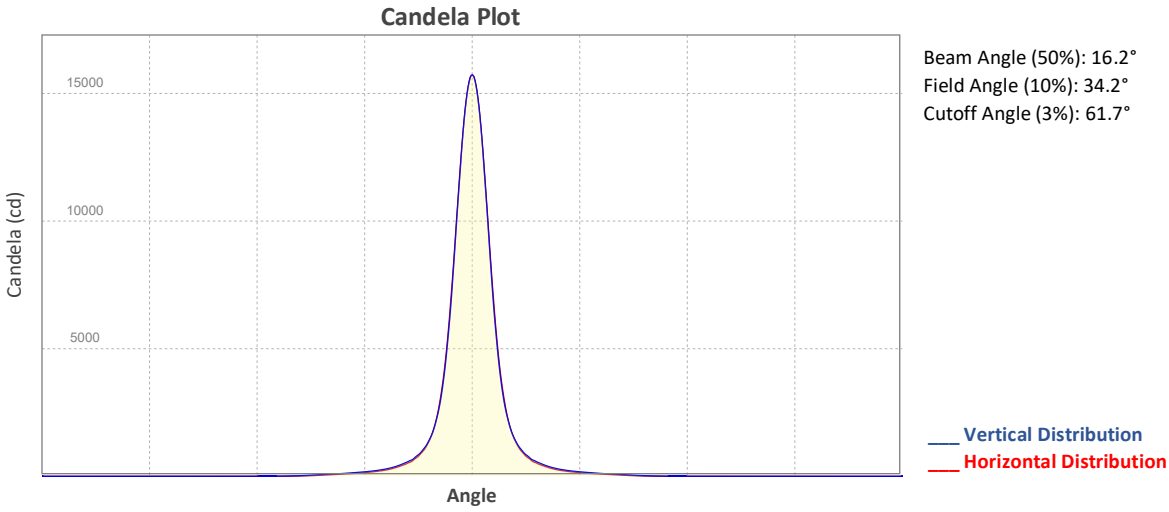


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15713	3928	1746	982	629	436	321	246	194	157
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	130	109	93	80	70	61	54	48	44	39
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1460	365	162	91	58	41	30	23	18	15
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	12	10	9	7	6	6	5	5	4	4

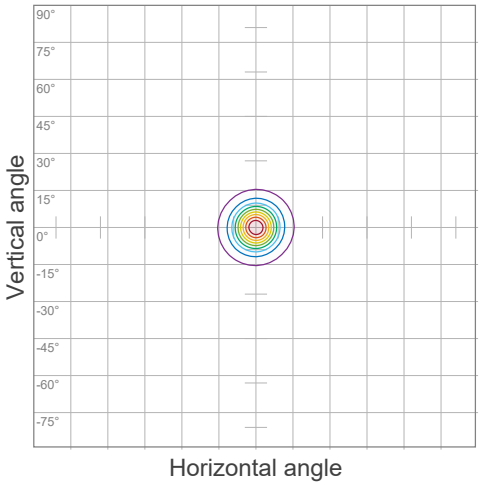
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 3200K-5hrs



ISO Diagrams

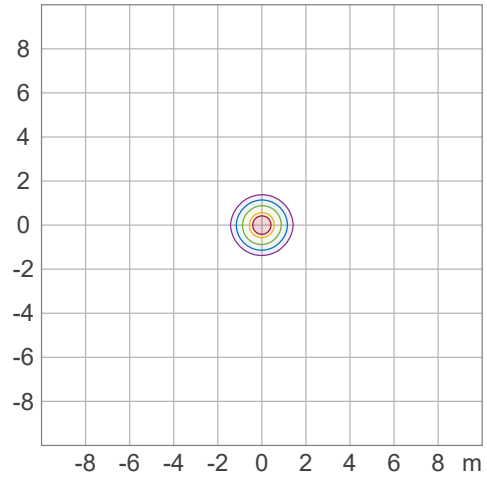
ISO Candela Diagram



90 %	14141.4 cd
80 %	12570.1 cd
70 %	10998.9 cd
60 %	9427.6 cd
50 %	7856.3 cd
40 %	6285.1 cd
30 %	4713.8 cd
20 %	3142.5 cd
10 %	1571.3 cd

Peak intensity: 15712.7 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	872.9 lx
30.0 %	523.8 lx
10.0 %	174.6 lx
5.0 %	87.3 lx
3.0 %	52.4 lx

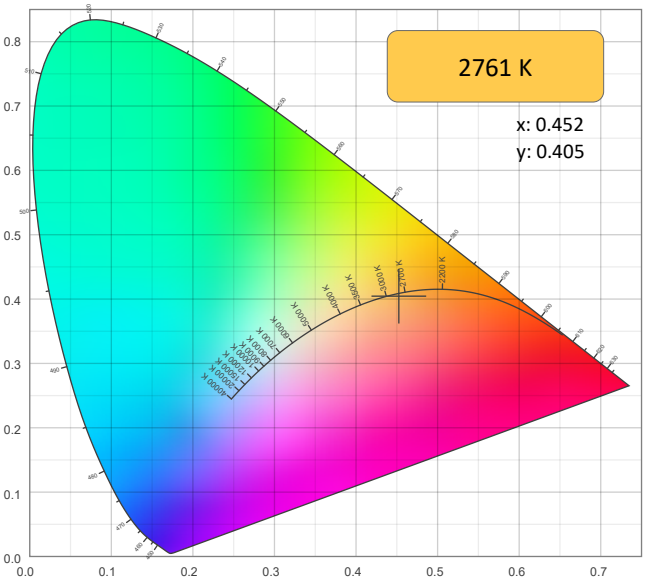
Peak illuminance: 1745.9 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

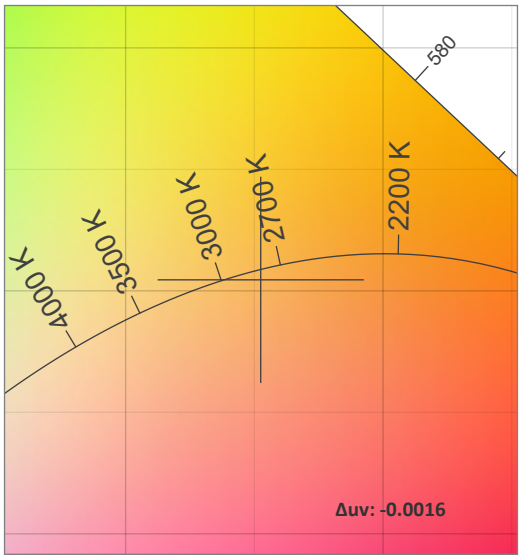
Well Batten 14: Standard Optics - 3200K-5hrs

Chromaticity

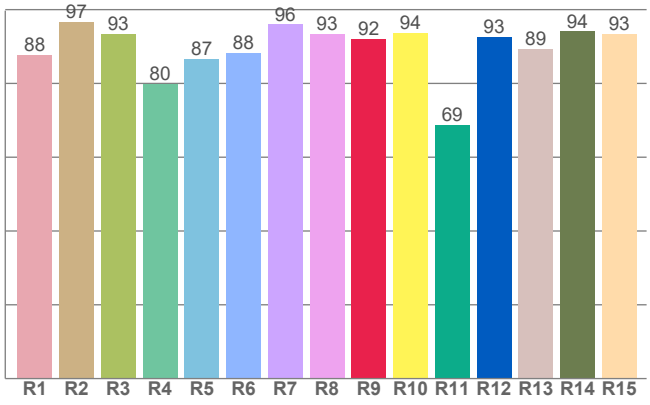
CIE 1931



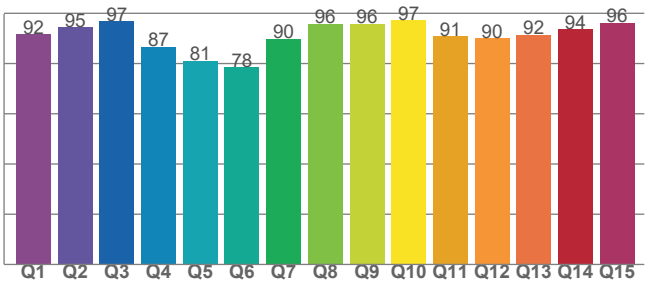
CIE 1931 - Zoom



CRI: 90.3 (R1-R8)



CQS: 89.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2761 K	0.452	0.405

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0016	0.405	0.260

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
90.3	92.0	89.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	89.7	108.0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 3200K-5hrs

TM-30 Details

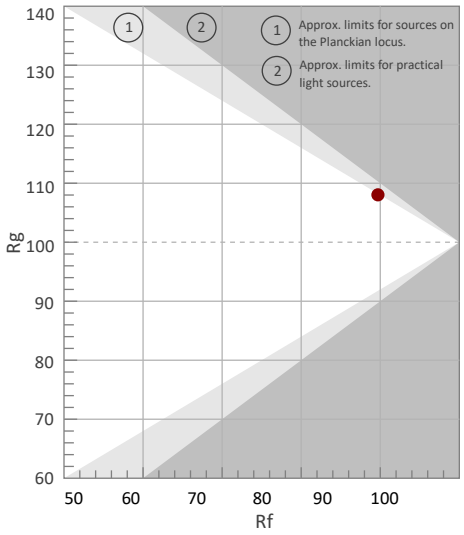
Rf 89.7

Fidelity Index (Rg)

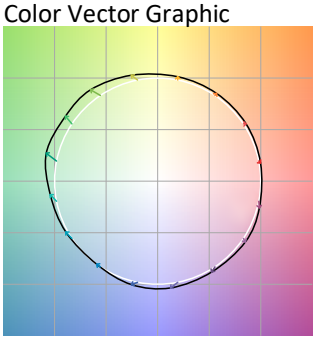
Rg 108.0

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	92	1%	-2%
2	92	2%	-1%
3	91	2%	0%
4	93	3%	1%
5	91	6%	5%
6	84	10%	5%
7	85	9%	-3%
8	81	11%	-5%
9	85	5%	-8%
10	87	1%	-8%
11	93	0%	-4%
12	89	3%	-5%
13	89	4%	-8%
14	90	2%	-5%
15	91	3%	-2%
16	91	2%	-6%

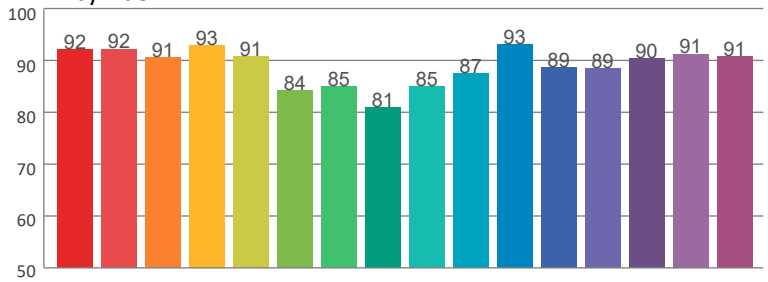


Color Vector Graphic

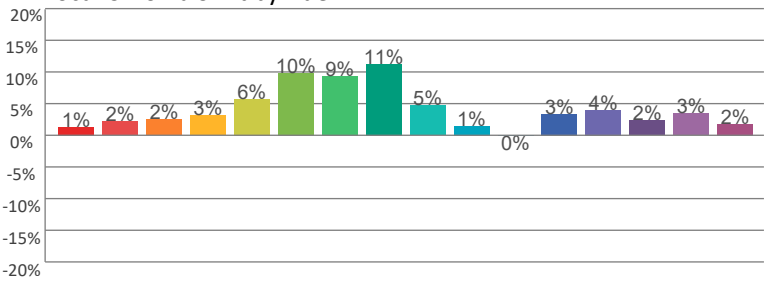


Color Distortion Graphic

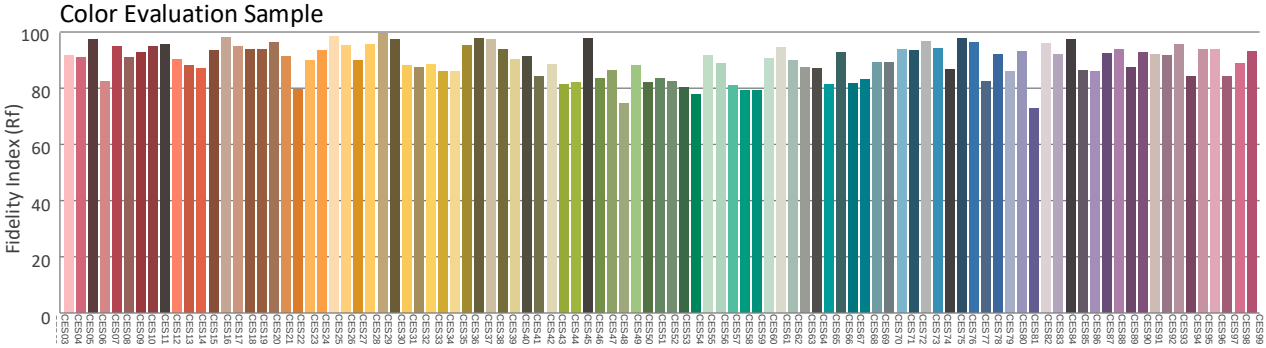
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 3200K-AC

Report Summary

Measurements

Fixture Output: 3935 lm
Fixture Peak: 26293 cd
Fixture Efficacy: 47 lm/W
Intensity @ 5m: 1051 lux
Color Temperature: 2770 K
CRI: 90.0 CRI R9 Value: 90.7
CQS: 89.4
TLCI: 73
TM-30 Rf: 89.6
TM-30 Rg: 108.4
Beam Angle (50%): 16.2°
Field Angle (10%): 34.2°
Cutoff Angle (3%): 61.8°

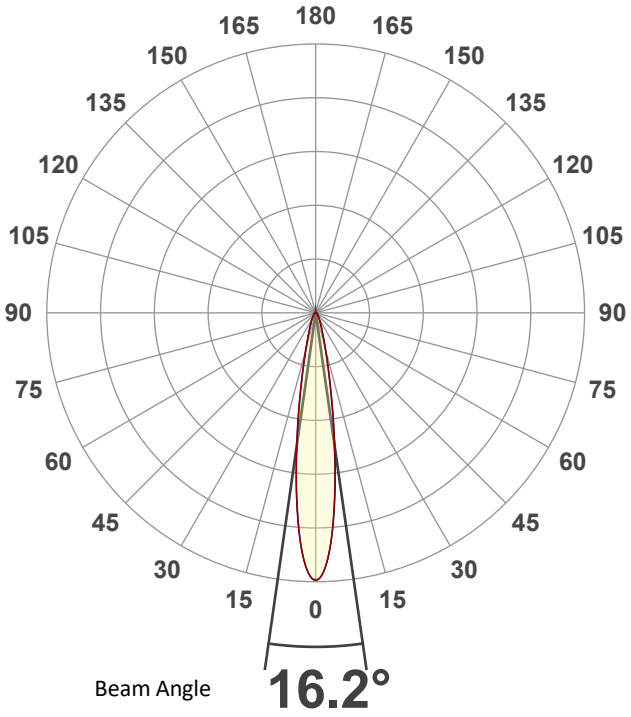
Conditions

AC Supply: 119 V, 60 Hz
Power: 84.47 W
Current: 0.712 A
Power Factor: 1.0

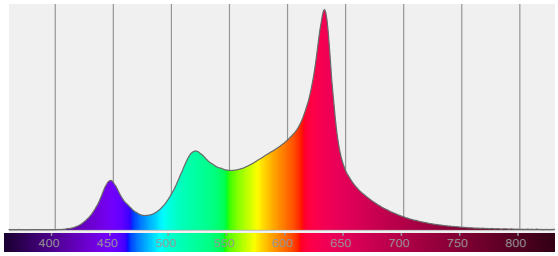
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.451
Y: 0.402

Light Quality

CRI: 90.0

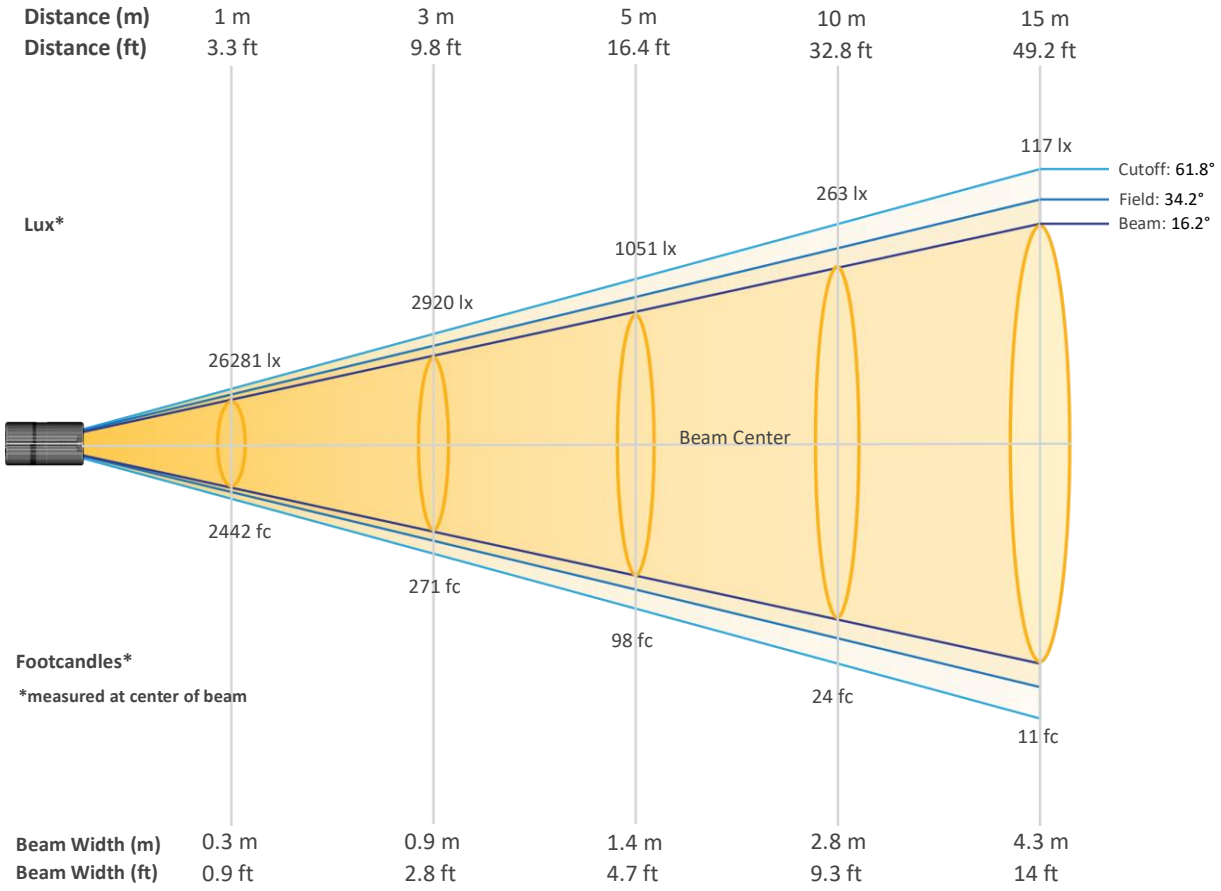
Color Temperature

2770 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 3200K-AC

Beam Details



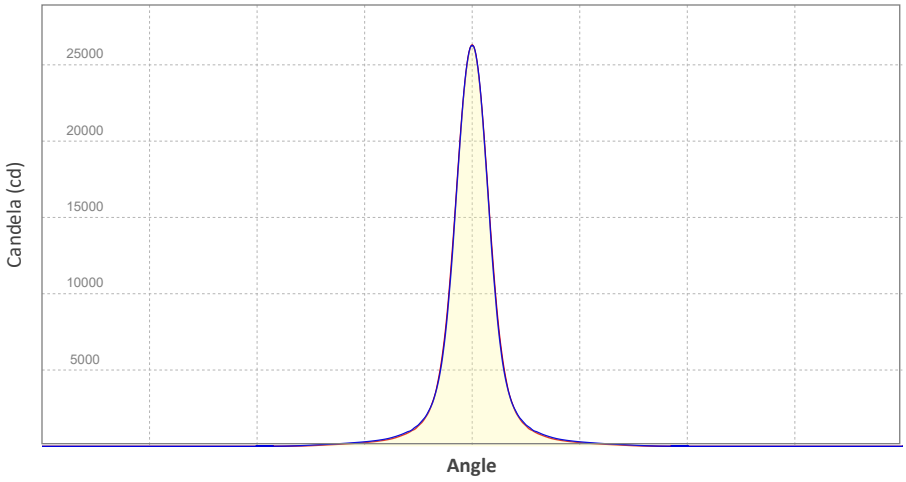
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	26281	6570	2920	1643	1051	730	536	411	324	263
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	217	183	156	134	117	103	91	81	73	66
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2442	610	271	153	98	68	50	38	30	24
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	20	17	14	12	11	10	8	8	7	6

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 3200K-AC

Candela Plot

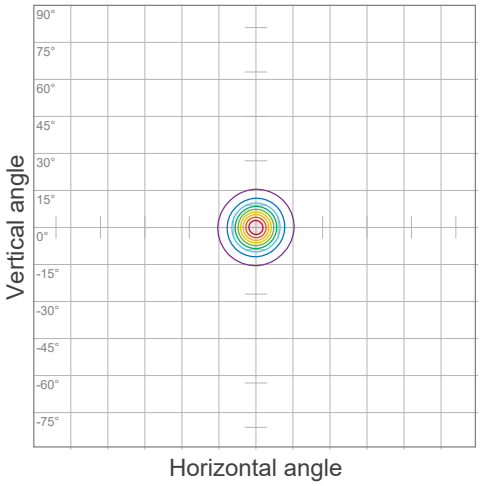


Beam Angle (50%): 16.2°
Field Angle (10%): 34.2°
Cutoff Angle (3%): 61.8°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

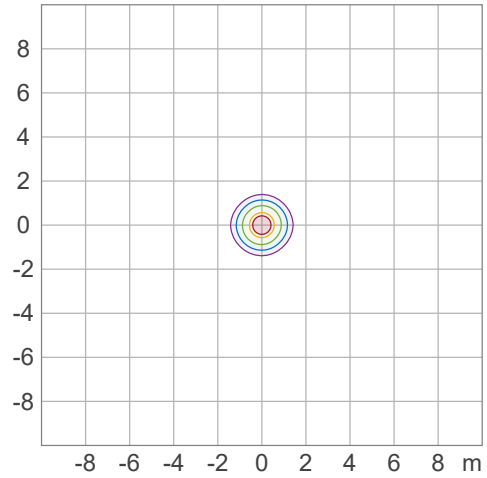
ISO Candela Diagram



90 %	23652.5 cd
80 %	21024.4 cd
70 %	18396.4 cd
60 %	15768.3 cd
50 %	13140.3 cd
40 %	10512.2 cd
30 %	7884.2 cd
20 %	5256.1 cd
10 %	2628.1 cd

Peak intensity: 26280.5 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1460.0 lx
30.0 %	876.0 lx
10.0 %	292.0 lx
5.0 %	146.0 lx
3.0 %	87.6 lx

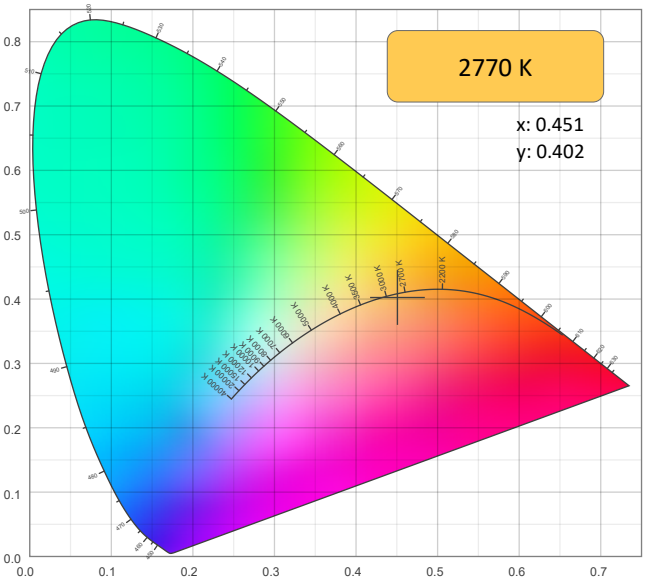
Peak illuminance: 2920.1 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

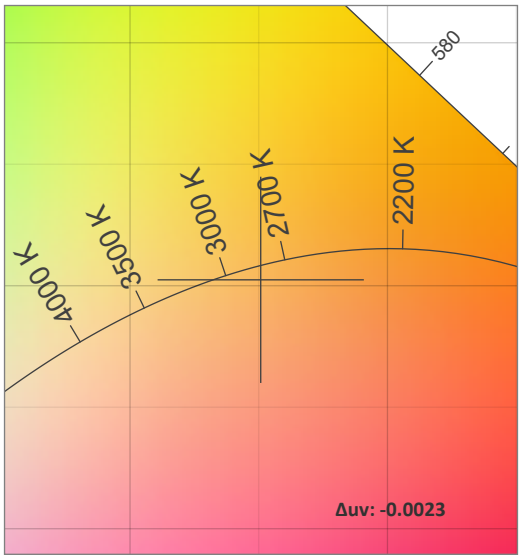
Well Batten 14: Standard Optics - 3200K-AC

Chromaticity

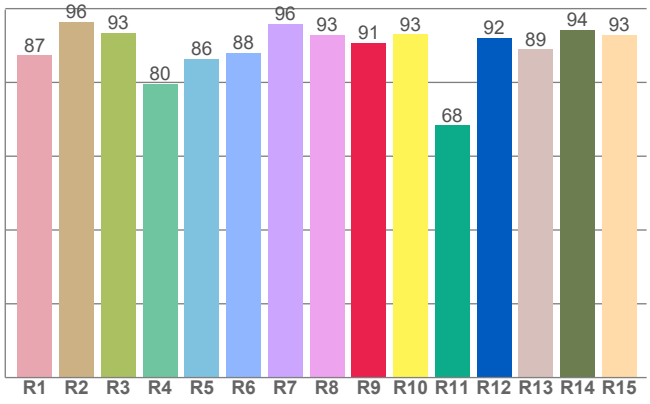
CIE 1931



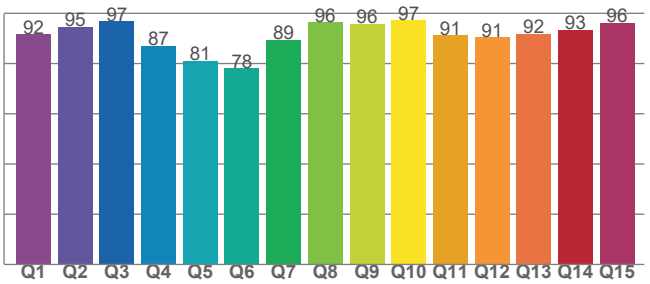
CIE 1931 - Zoom



CRI: 90.0 (R1-R8)



CQS: 89.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
2770 K	0.451	0.402

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0023	0.402	0.260

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
90.0	90.7	89.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	89.6	108.4

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 3200K-AC

TM-30 Details

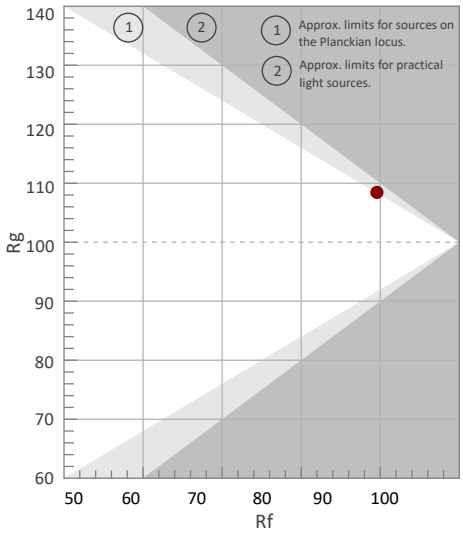
Rf 89.6

Fidelity Index (Rg)

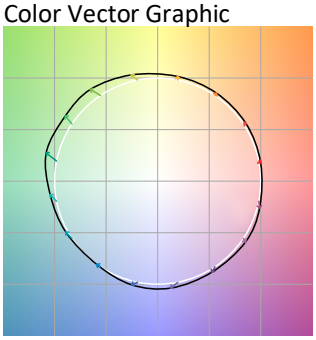
Rg 108.4

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	92	1%	-2%
2	92	2%	-1%
3	91	3%	0%
4	93	3%	1%
5	91	6%	5%
6	84	10%	5%
7	85	10%	-3%
8	81	11%	-6%
9	85	5%	-8%
10	87	1%	-8%
11	93	0%	-4%
12	89	4%	-5%
13	89	4%	-8%
14	90	3%	-5%
15	91	4%	-2%
16	91	2%	-6%

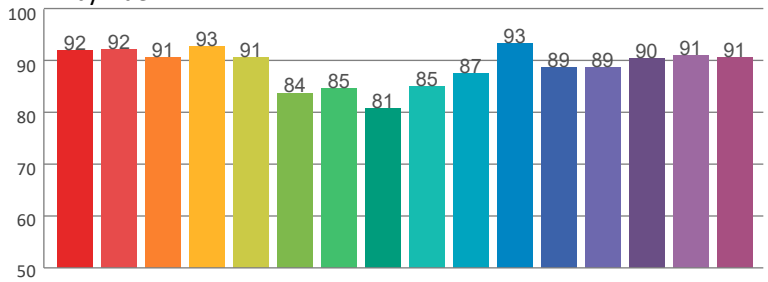


Color Vector Graphic

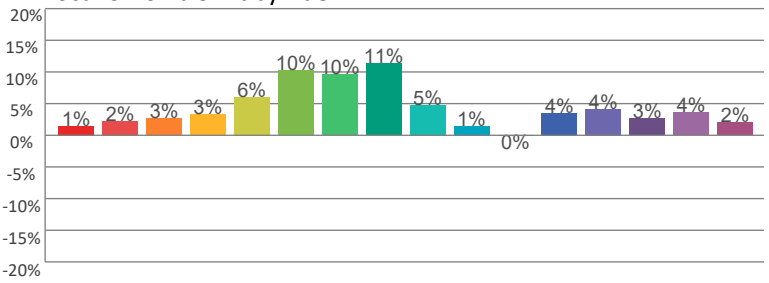


Color Distortion Graphic

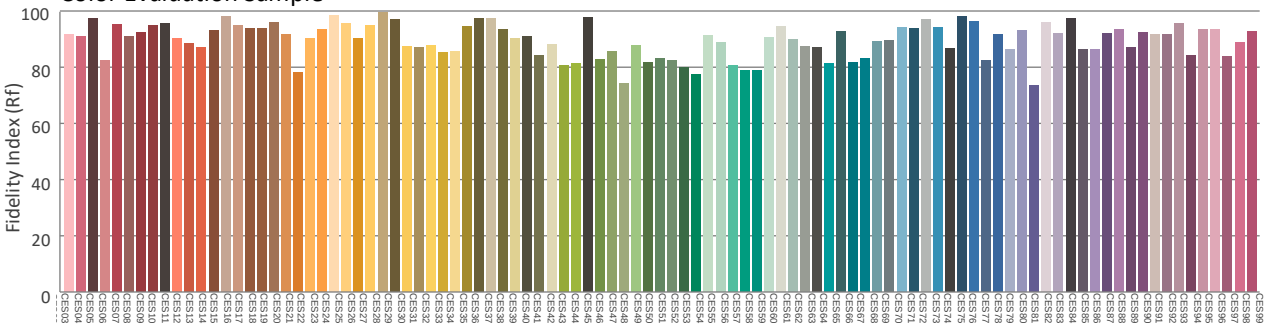
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 4000K-5hrs

Report Summary

Measurements

Fixture Output: 2358 lm
Fixture Peak: 15809 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 632 lux
Color Temperature: 3985 K
CRI: 90.5 CRI R9 Value: 85.8
CQS: 93.1
TLCI: 78
TM-30 Rf: 91.0
TM-30 Rg: 108.1
Beam Angle (50%): 16.1°
Field Angle (10%): 34.1°
Cutoff Angle (3%): 61.7°

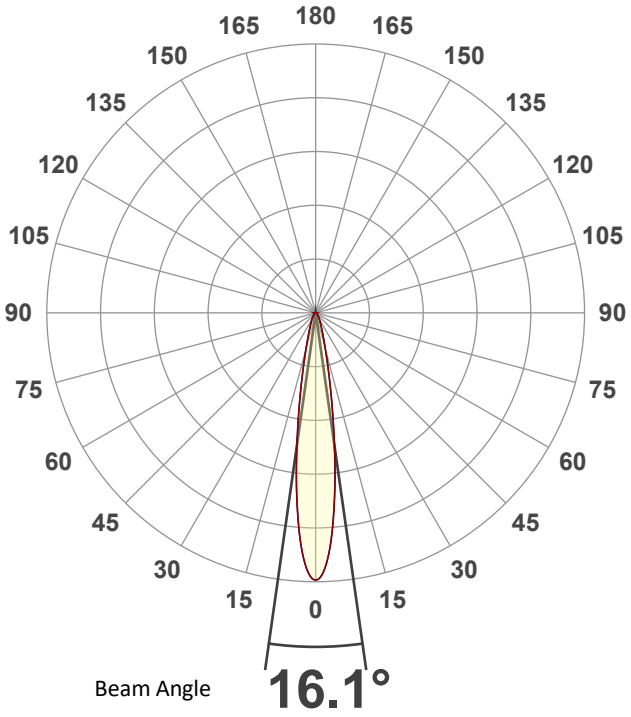
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

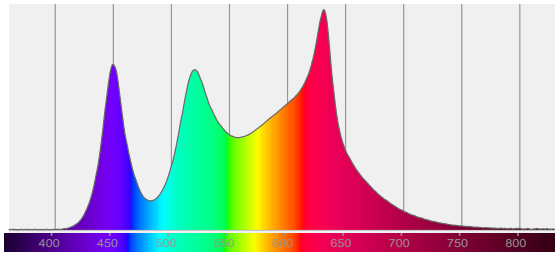
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.379
Y: 0.370

Light Quality

CRI: 90.5

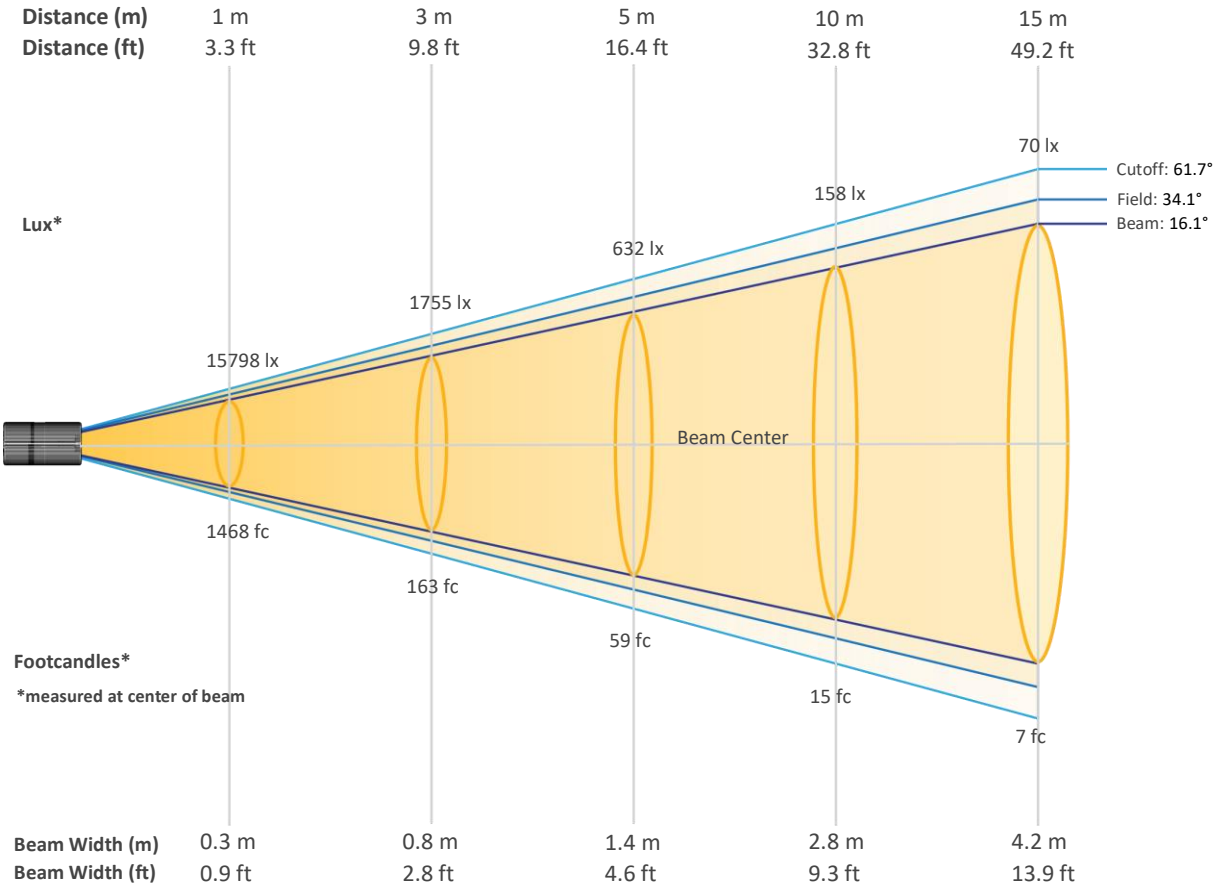
Color Temperature

3985 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 4000K-5hrs

Beam Details

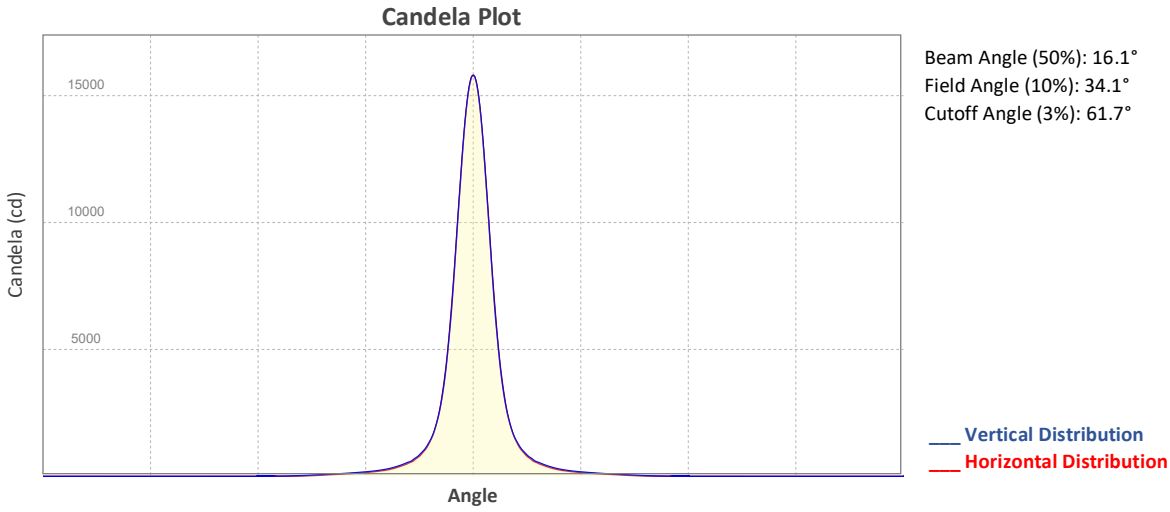


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15798	3949	1755	987	632	439	322	247	195	158
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	131	110	93	81	70	62	55	49	44	39
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1468	367	163	92	59	41	30	23	18	15
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	12	10	9	7	7	6	5	5	4	4

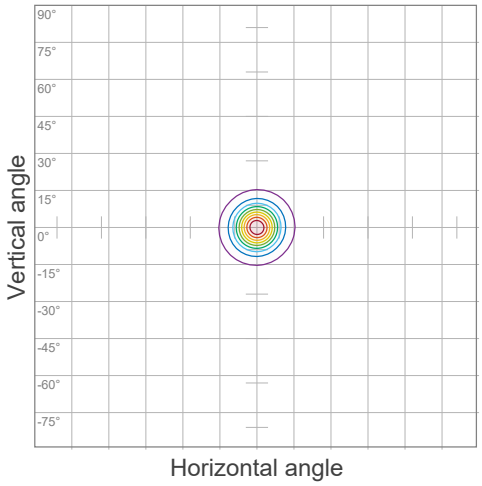
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 4000K-5hrs



ISO Diagrams

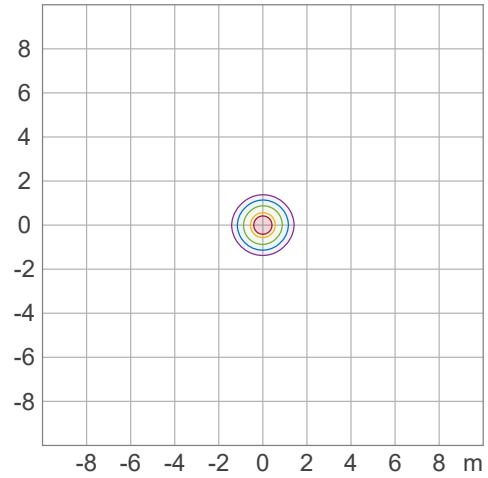
ISO Candela Diagram



90 %	14217.8 cd
80 %	12638.1 cd
70 %	11058.3 cd
60 %	9478.6 cd
50 %	7898.8 cd
40 %	6319.0 cd
30 %	4739.3 cd
20 %	3159.5 cd
10 %	1579.8 cd

Peak intensity: 15797.6 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	877.6 lx
30.0 %	526.6 lx
10.0 %	175.5 lx
5.0 %	87.8 lx
3.0 %	52.7 lx

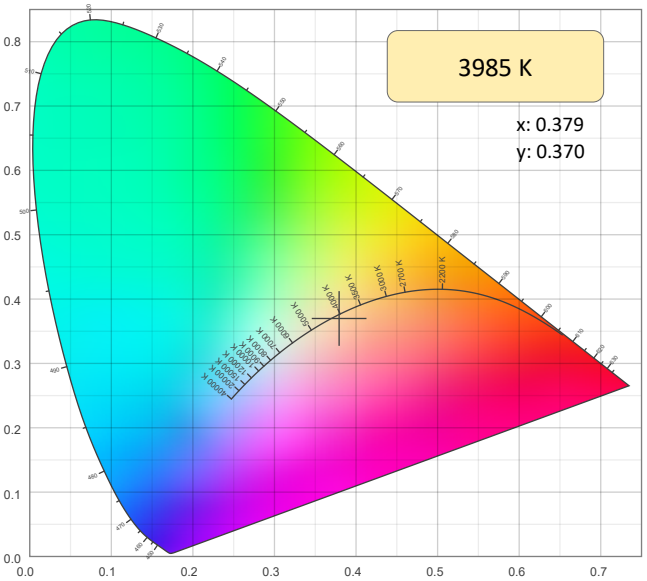
Peak illuminance: 1755.3 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

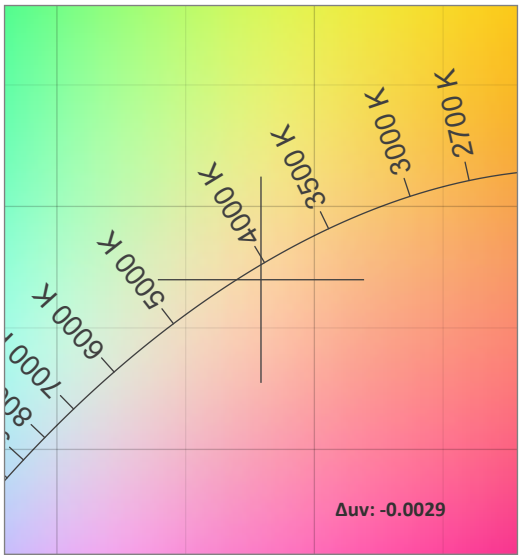
Well Batten 14: Standard Optics - 4000K-5hrs

Chromaticity

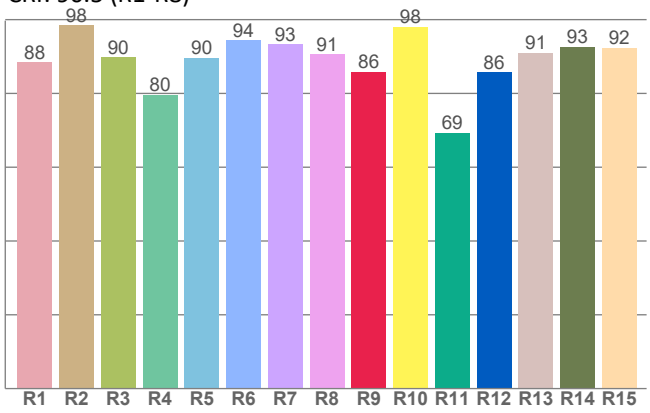
CIE 1931



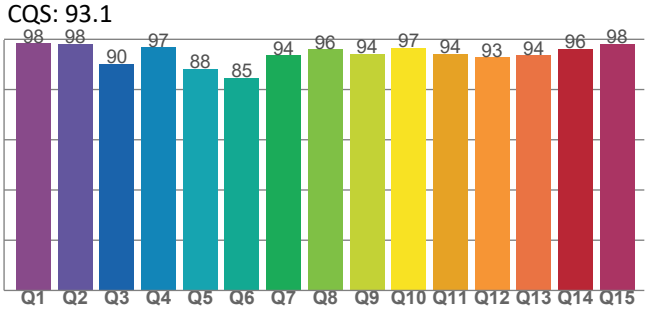
CIE 1931 - Zoom



CRI: 90.5 (R1-R8)



CQS: 93.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
3985 K	0.379	0.370

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0029	0.370	0.227

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
90.5	85.8	93.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
78	91.0	108.1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 4000K-5hrs

TM-30 Details

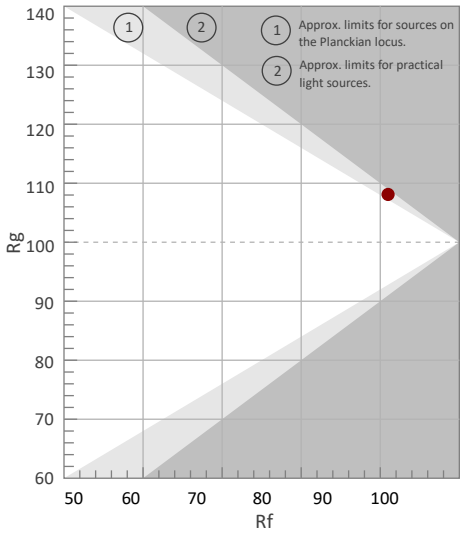
Rf 91.0

Fidelity Index (Rg)

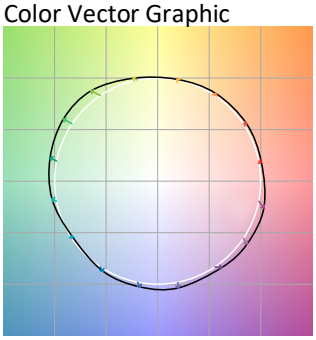
Rg 108.1

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	2%	-2%
2	93	3%	-2%
3	93	2%	1%
4	96	1%	1%
5	90	3%	4%
6	86	9%	5%
7	86	9%	1%
8	87	7%	-2%
9	92	4%	-3%
10	94	-1%	-2%
11	91	2%	5%
12	89	4%	4%
13	92	5%	-1%
14	91	4%	5%
15	90	6%	-2%
16	87	6%	-5%

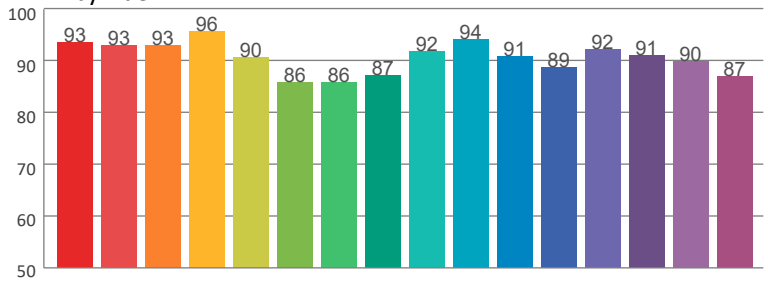


Color Vector Graphic

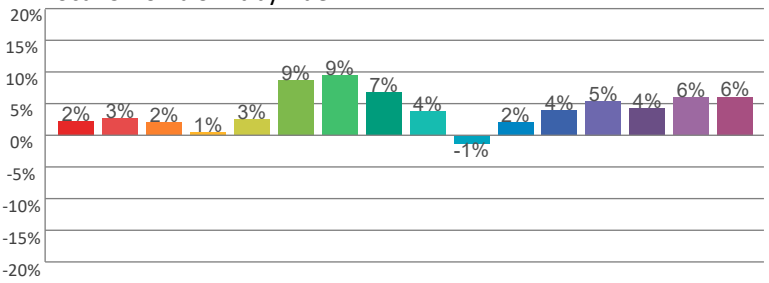


Color Distortion Graphic

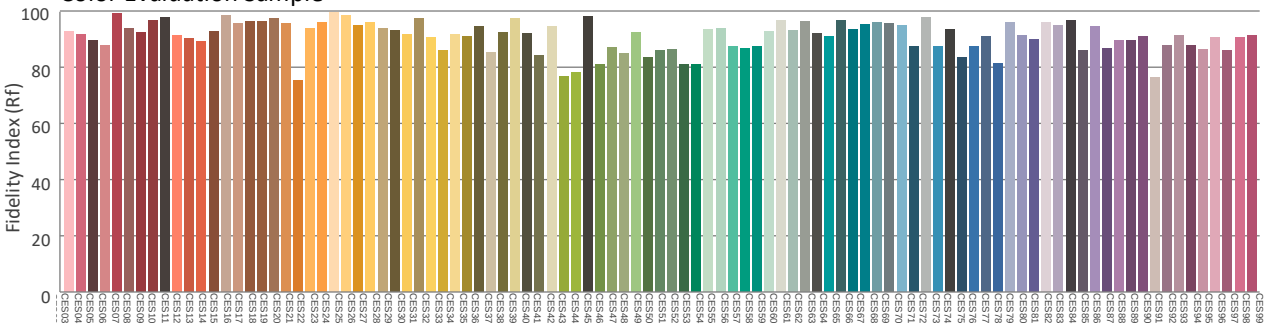
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 4000K-AC

Report Summary

Measurements

Fixture Output: 3928 lm
Fixture Peak: 26447 cd
Fixture Efficacy: 46 lm/W
Intensity @ 5m: 1057 lux
Color Temperature: 4548 K
CRI: 90.6 CRI R9 Value: 83.9
CQS: 93.4
TLCI: 81
TM-30 Rf: 90.5
TM-30 Rg: 108.8
Beam Angle (50%): 16.1°
Field Angle (10%): 34°
Cutoff Angle (3%): 61.6°

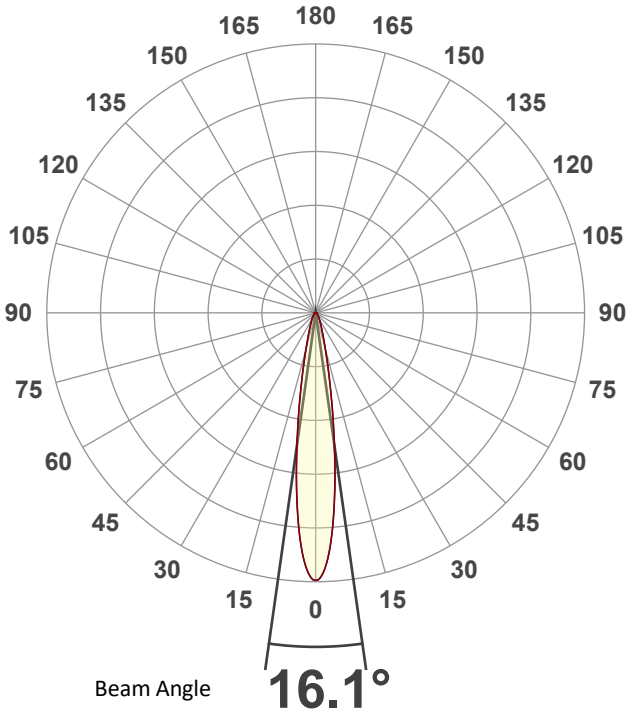
Conditions

AC Supply: 119 V, 60 Hz
Power: 84.89 W
Current: 0.714 A
Power Factor: 1.0

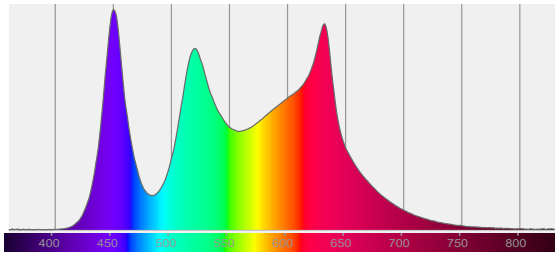
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.358
Y: 0.354

Light Quality

CRI: 90.6

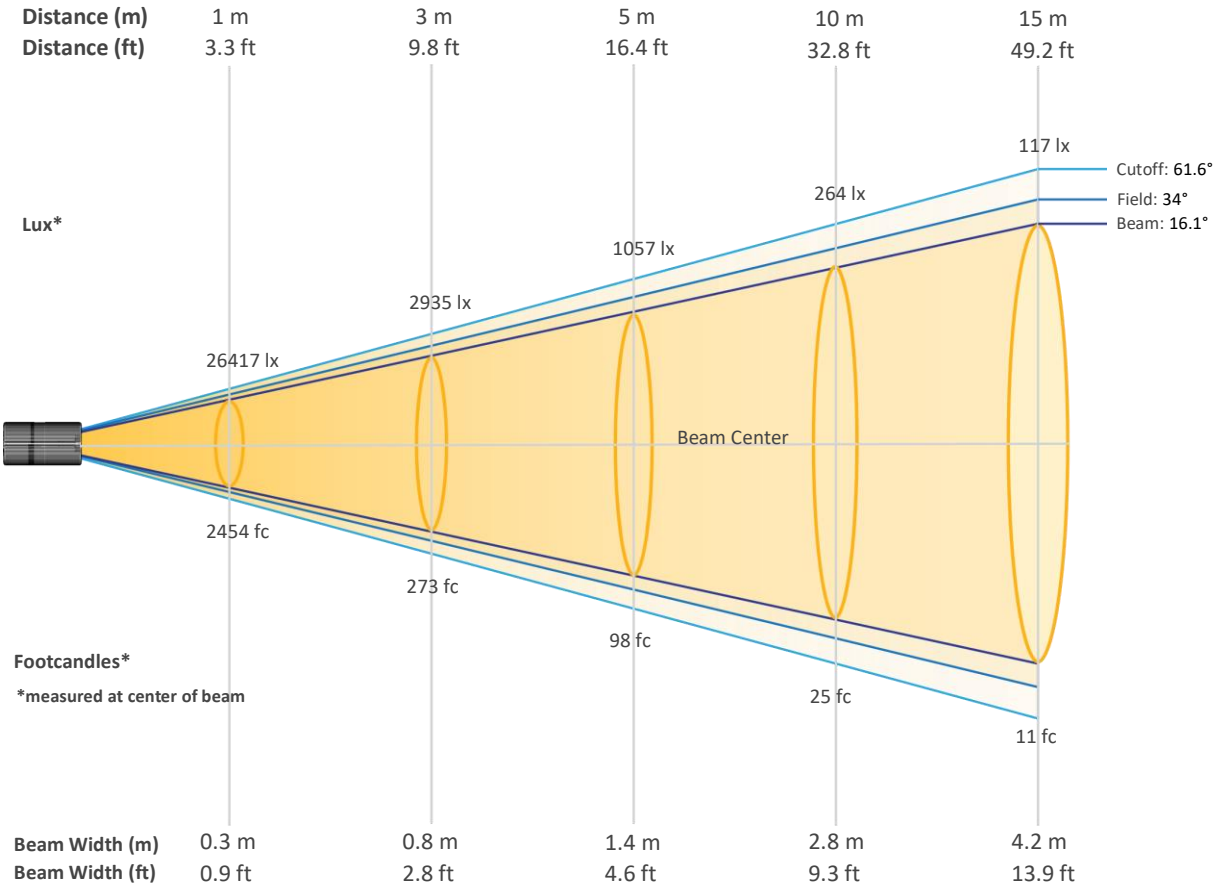
Color Temperature

4548 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 4000K-AC

Beam Details



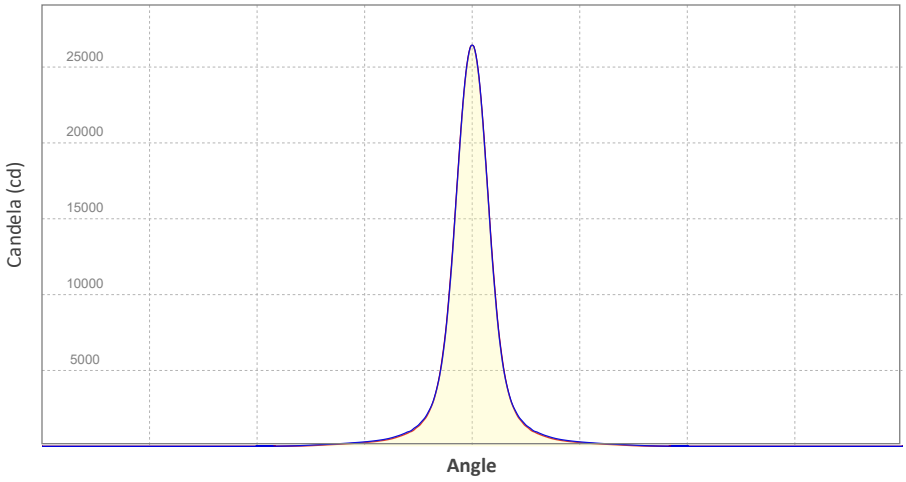
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	26417	6604	2935	1651	1057	734	539	413	326	264
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	218	183	156	135	117	103	91	82	73	66
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2454	614	273	153	98	68	50	38	30	25
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	20	17	15	13	11	10	8	8	7	6

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 4000K-AC

Candela Plot

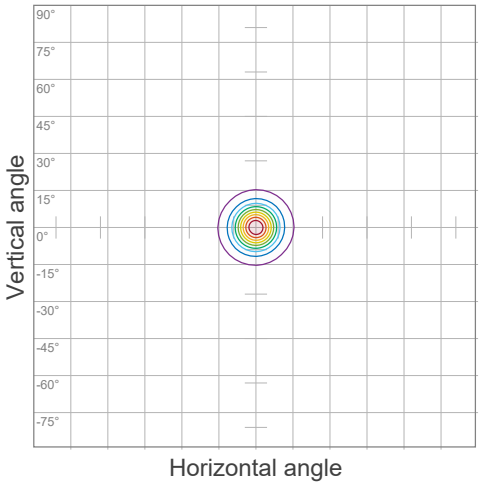


Beam Angle (50%): 16.1°
Field Angle (10%): 34°
Cutoff Angle (3%): 61.6°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

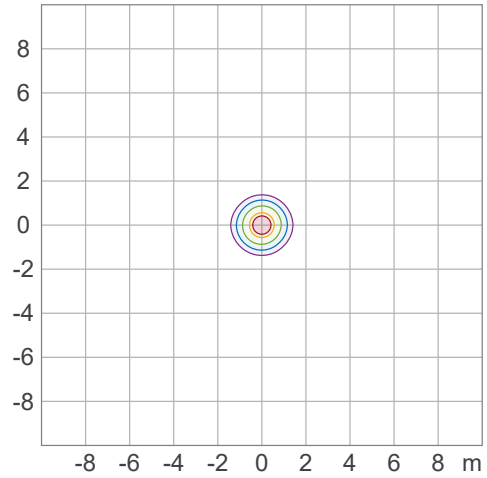
ISO Candela Diagram



90 %	23775.3 cd
80 %	21133.6 cd
70 %	18491.9 cd
60 %	15850.2 cd
50 %	13208.5 cd
40 %	10566.8 cd
30 %	7925.1 cd
20 %	5283.4 cd
10 %	2641.7 cd

Peak intensity: 26417.0 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1467.6 lx
30.0 %	880.6 lx
10.0 %	293.5 lx
5.0 %	146.8 lx
3.0 %	88.1 lx

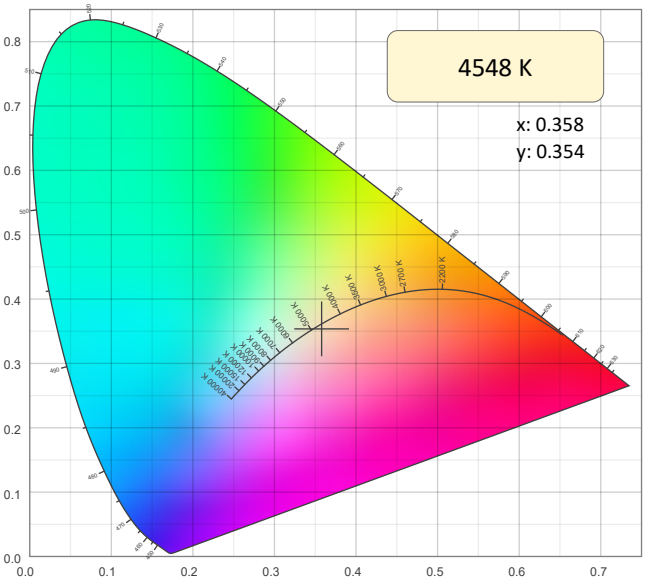
Peak illuminance: 2935.2 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

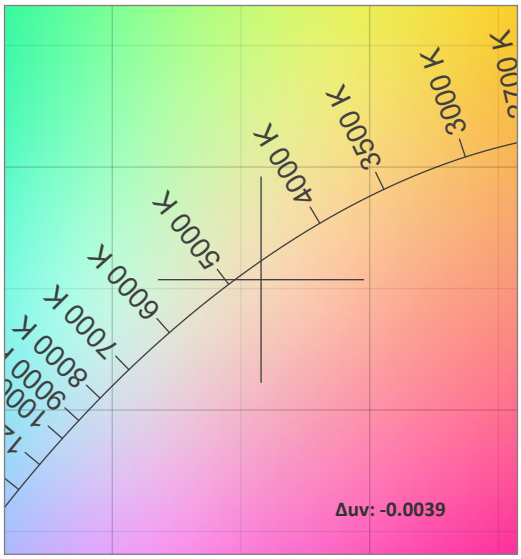
Well Batten 14: Standard Optics - 4000K-AC

Chromaticity

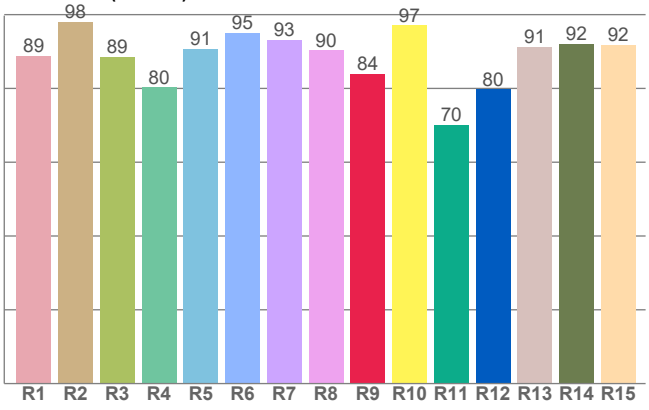
CIE 1931



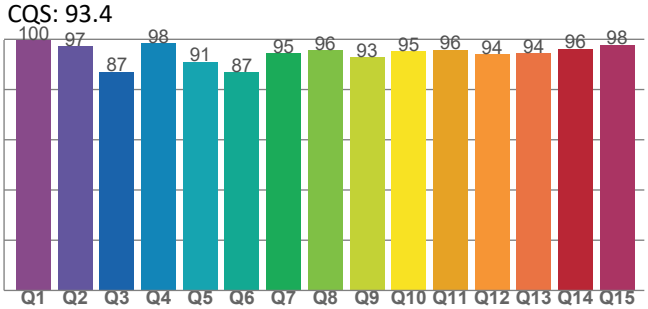
CIE 1931 - Zoom



CRI: 90.6 (R1-R8)



CQS: 93.4



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
4548 K	0.358	0.354

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0039	0.354	0.219

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
90.6	83.9	93.4

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
81	90.5	108.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 4000K-AC

TM-30 Details

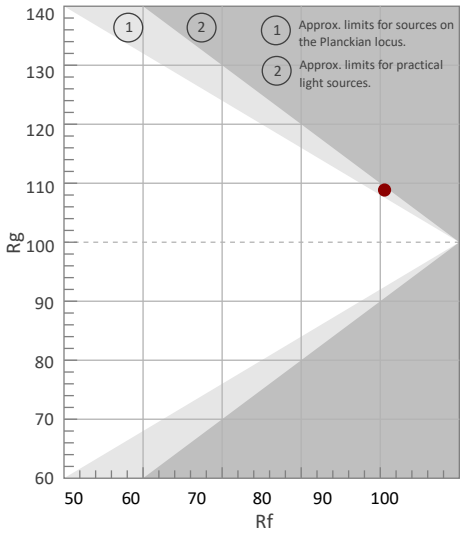
Rf 90.5

Fidelity Index (Rg)

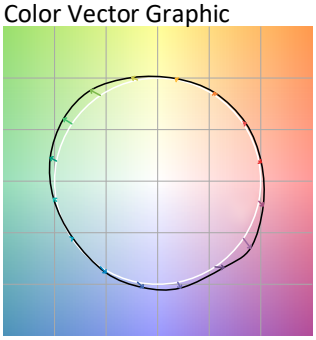
Rg 108.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	2%	-2%
2	94	2%	-1%
3	94	2%	2%
4	95	1%	2%
5	89	3%	5%
6	85	9%	5%
7	86	10%	0%
8	87	7%	-2%
9	92	2%	-3%
10	96	-1%	0%
11	87	2%	8%
12	87	4%	6%
13	93	6%	2%
14	86	5%	7%
15	86	11%	-4%
16	89	5%	-3%

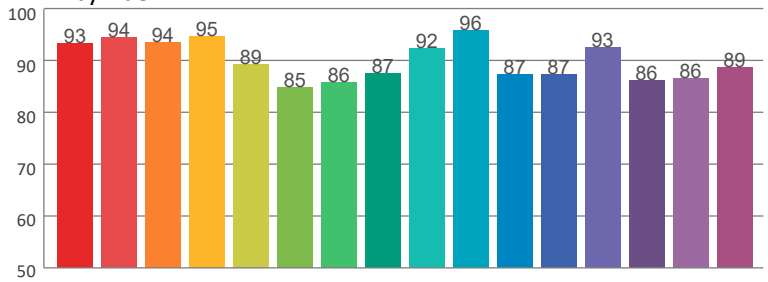


Color Vector Graphic

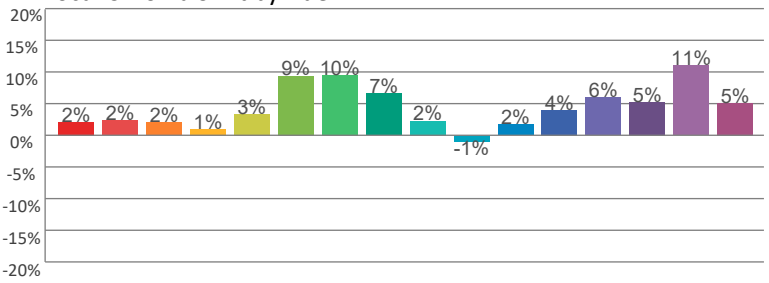


Color Distortion Graphic

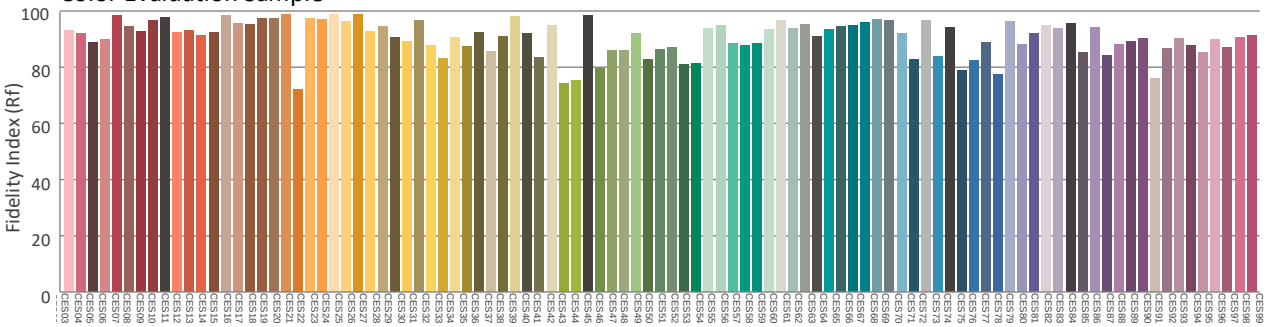
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 5600K-5hrs

Report Summary

Measurements

Fixture Output: 2267 lm
Fixture Peak: 15407 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 616 lux
Color Temperature: 6755 K
CRI: 89.9 CRI R9 Value: 86.9
CQS: 92.5
TLCI: 86
TM-30 Rf: 89.0
TM-30 Rg: 108.1
Beam Angle (50%): 16.1°
Field Angle (10%): 33.9°
Cutoff Angle (3%): 61.4°

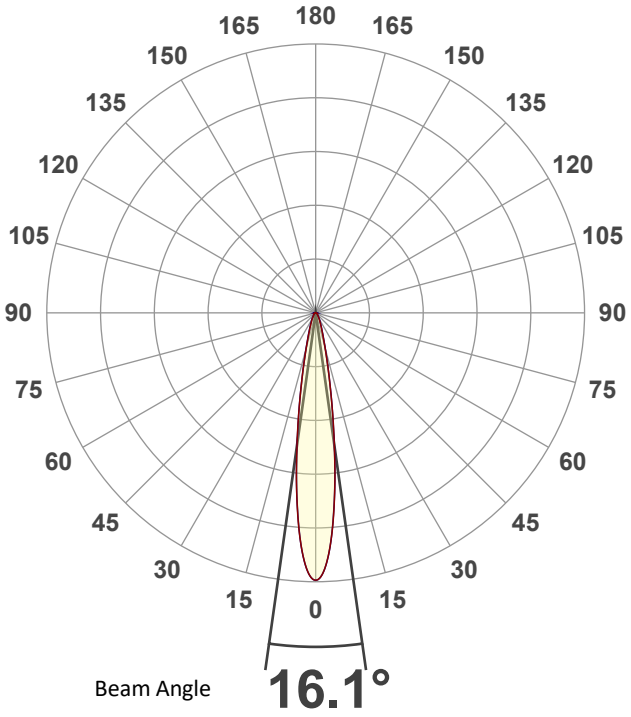
Conditions

AC Supply: 120 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

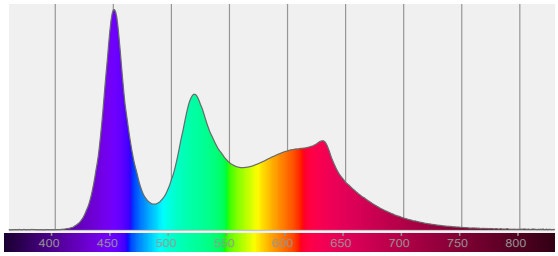
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.311
Y: 0.316

Light Quality

CRI: 89.9

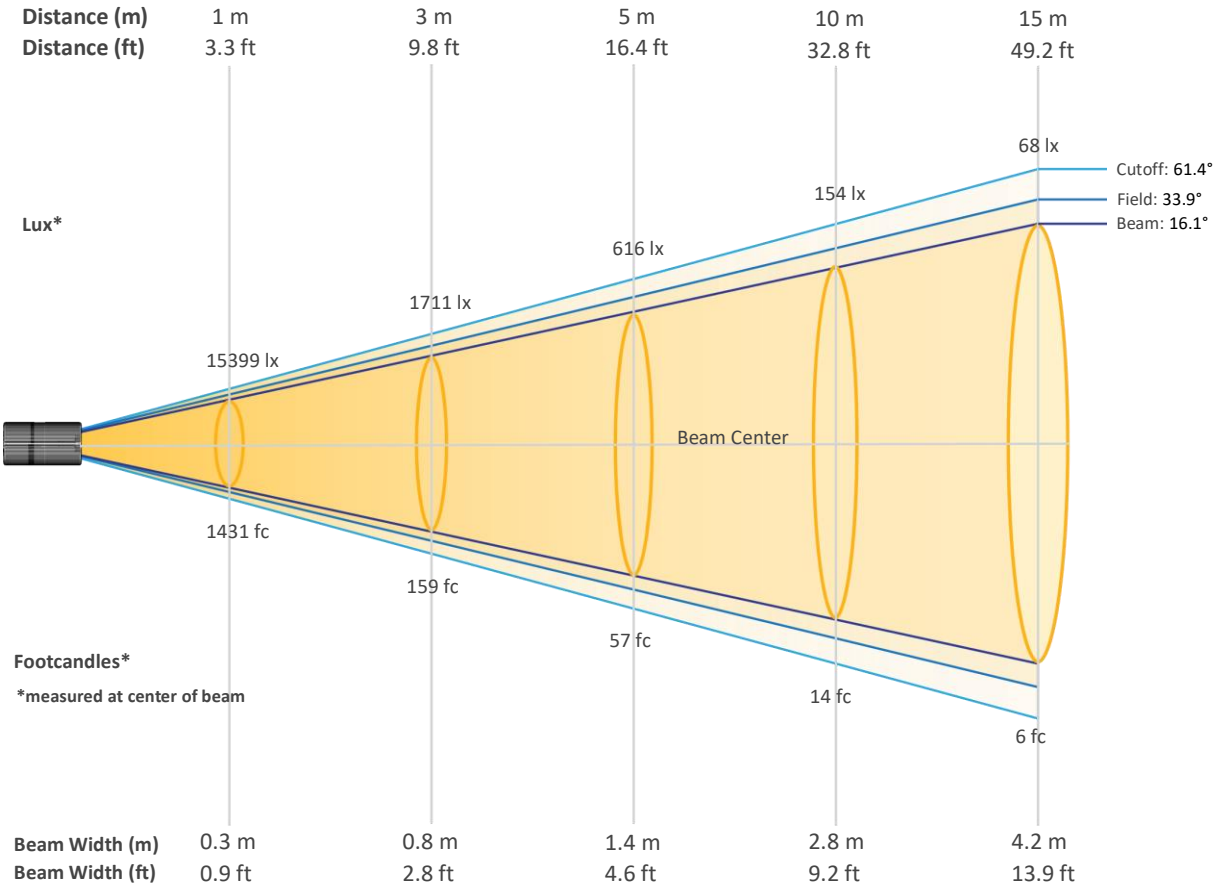
Color Temperature

6755 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 5600K-5hrs

Beam Details

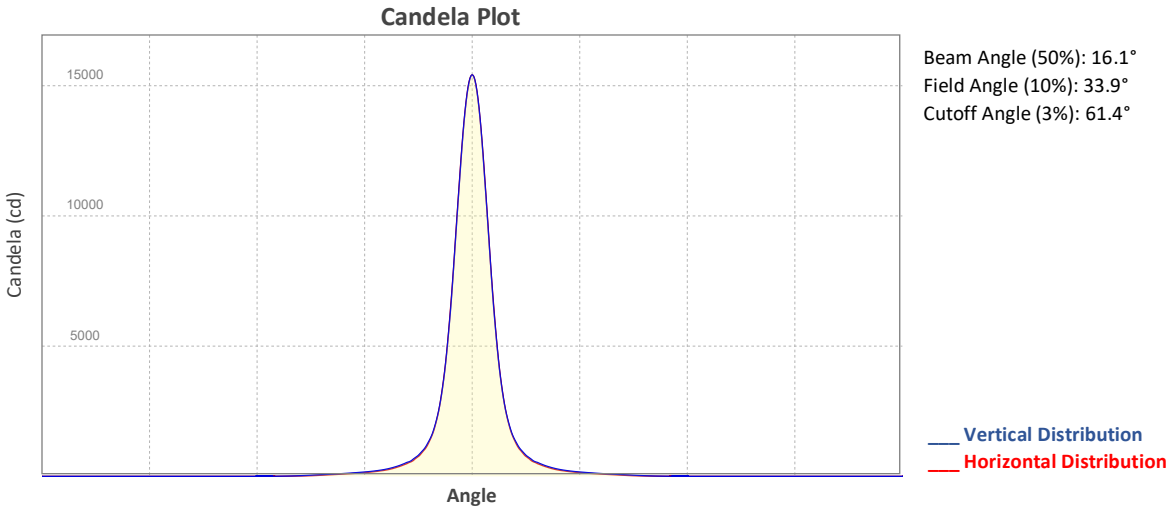


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	15399	3850	1711	962	616	428	314	241	190	154
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	127	107	91	79	68	60	53	48	43	38
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1431	358	159	89	57	40	29	22	18	14
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	12	10	8	7	6	6	5	4	4	4

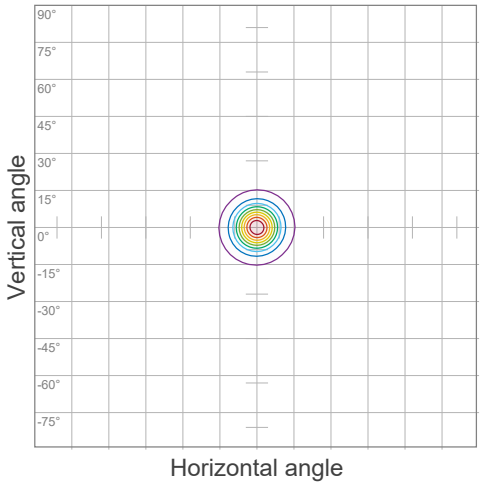
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 5600K-5hrs



ISO Diagrams

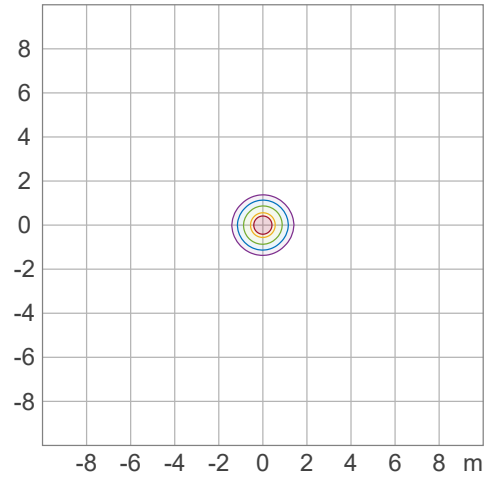
ISO Candela Diagram



90 %	13858.8 cd
80 %	12318.9 cd
70 %	10779.1 cd
60 %	9239.2 cd
50 %	7699.3 cd
40 %	6159.5 cd
30 %	4619.6 cd
20 %	3079.7 cd
10 %	1539.9 cd

Peak intensity: 15398.7 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	855.5 lx
30.0 %	513.3 lx
10.0 %	171.1 lx
5.0 %	85.5 lx
3.0 %	51.3 lx

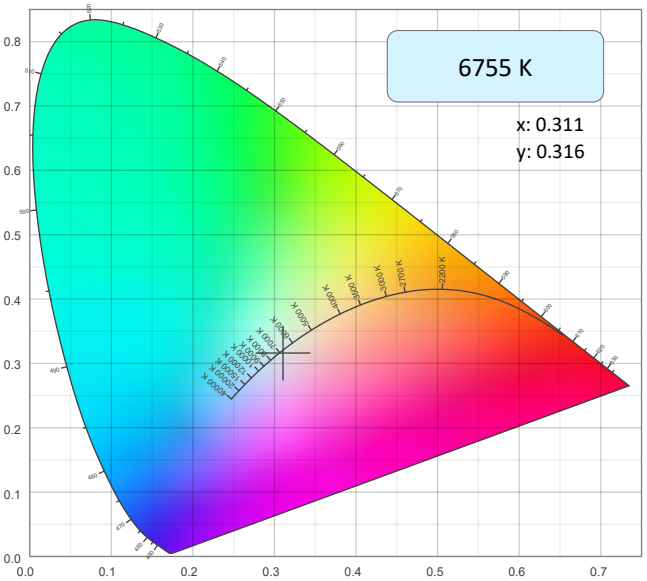
Peak illuminance: 1711.0 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

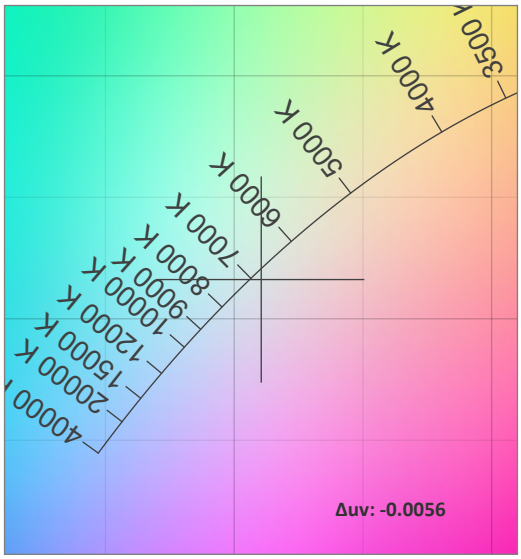
Well Batten 14: Standard Optics - 5600K-5hrs

Chromaticity

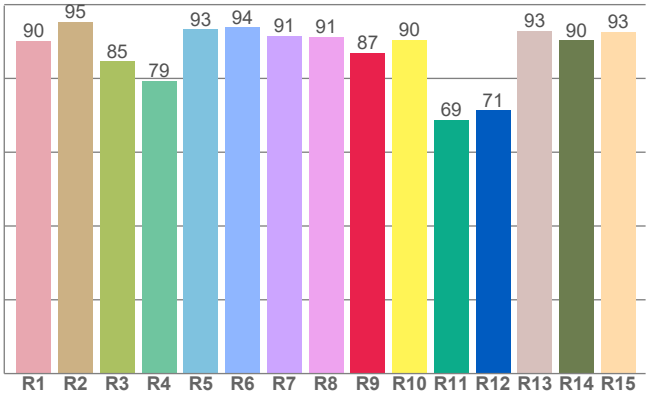
CIE 1931



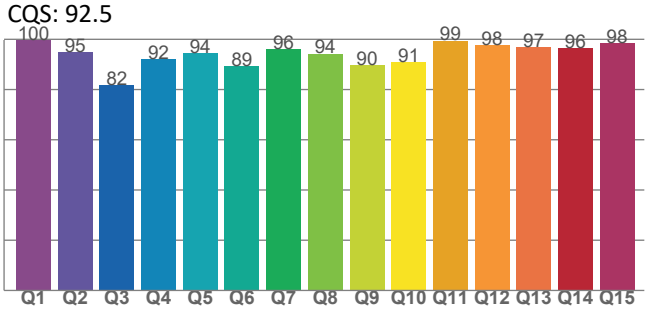
CIE 1931 - Zoom



CRI: 89.9 (R1-R8)



CQS: 92.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6755 K	0.311	0.316

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0056	0.316	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
89.9	86.9	92.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
86	89.0	108.1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 5600K-5hrs

TM-30 Details

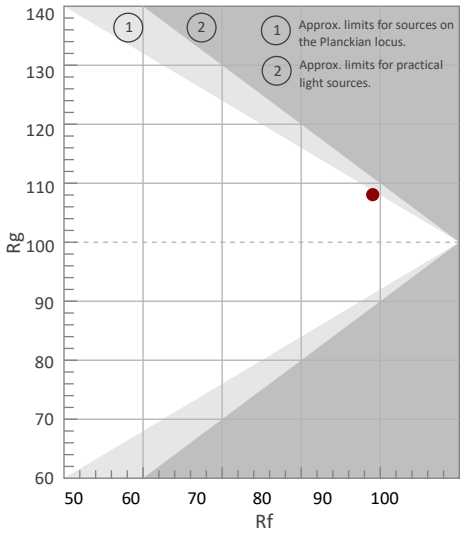
Rf 89.0

Fidelity Index (Rg)

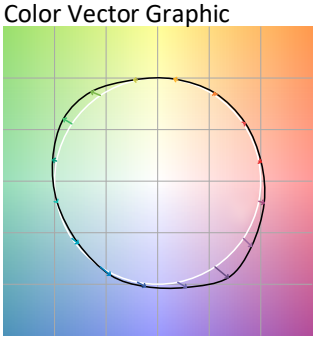
Rg 108.1

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	2%	-1%
2	94	2%	0%
3	94	2%	2%
4	93	0%	4%
5	89	1%	4%
6	87	8%	5%
7	86	10%	1%
8	91	4%	-1%
9	93	0%	1%
10	89	-2%	7%
11	78	1%	12%
12	87	3%	8%
13	88	6%	7%
14	80	16%	5%
15	85	11%	-2%
16	90	5%	-1%

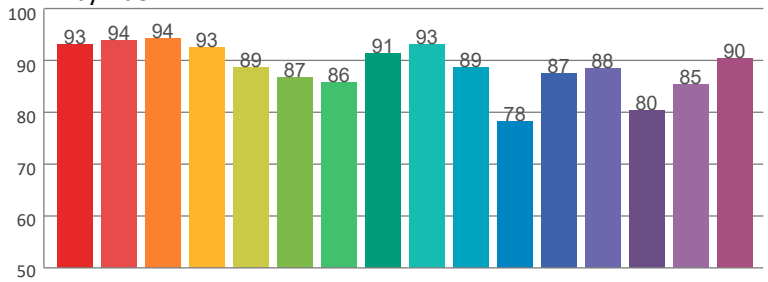


Color Vector Graphic

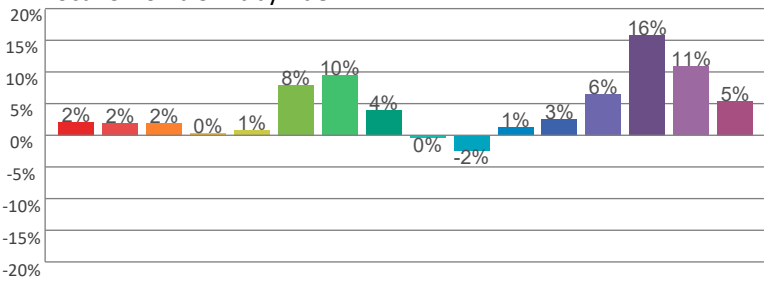


Color Distortion Graphic

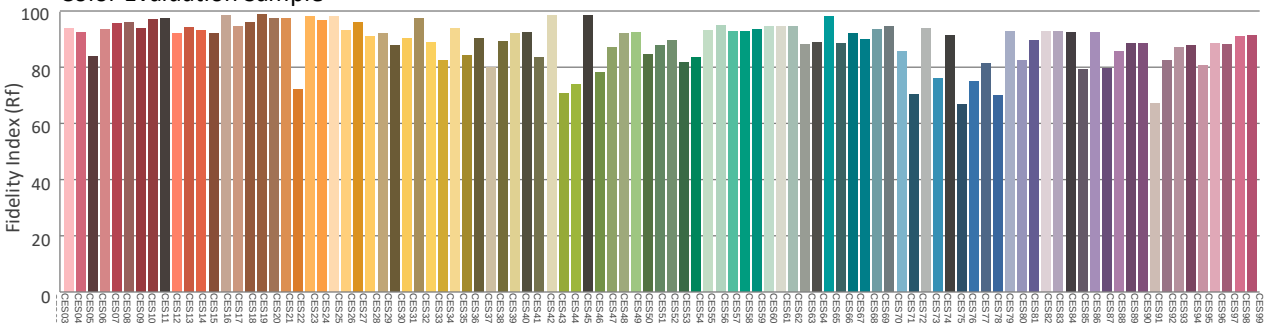
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 5600K-AC

Report Summary

Measurements

Fixture Output: 3756 lm
Fixture Peak: 25567 cd
Fixture Efficacy: 45 lm/W
Intensity @ 5m: 1022 lux
Color Temperature: 6842 K
CRI: 89.9 CRI R9 Value: 85.4
CQS: 92.5
TLCI: 87
TM-30 Rf: 89.0
TM-30 Rg: 108.1
Beam Angle (50%): 16°
Field Angle (10%): 33.9°
Cutoff Angle (3%): 61.3°

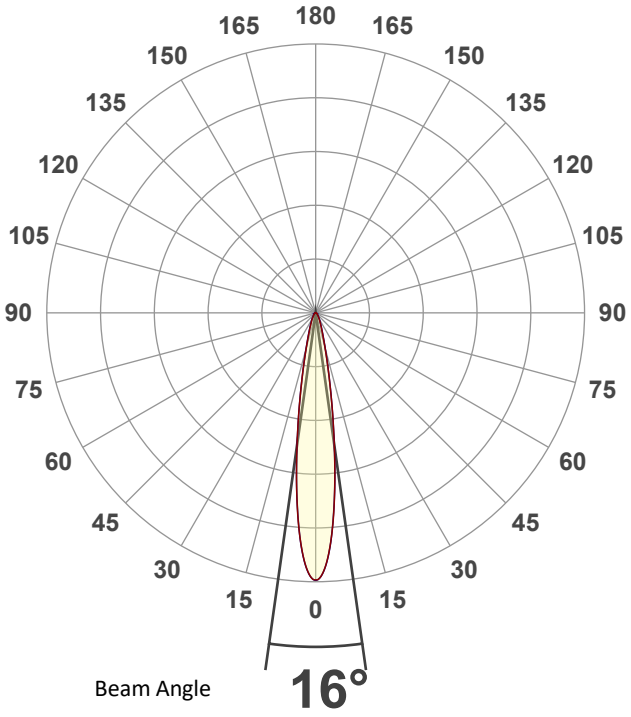
Conditions

AC Supply: 119 V, 60 Hz
Power: 84.24 W
Current: 0.707 A
Power Factor: 1.0

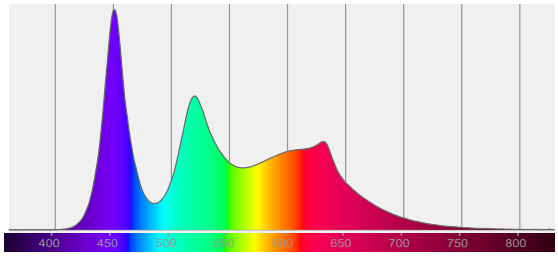
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 1/8/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.309
Y: 0.314

Light Quality

CRI: 89.9

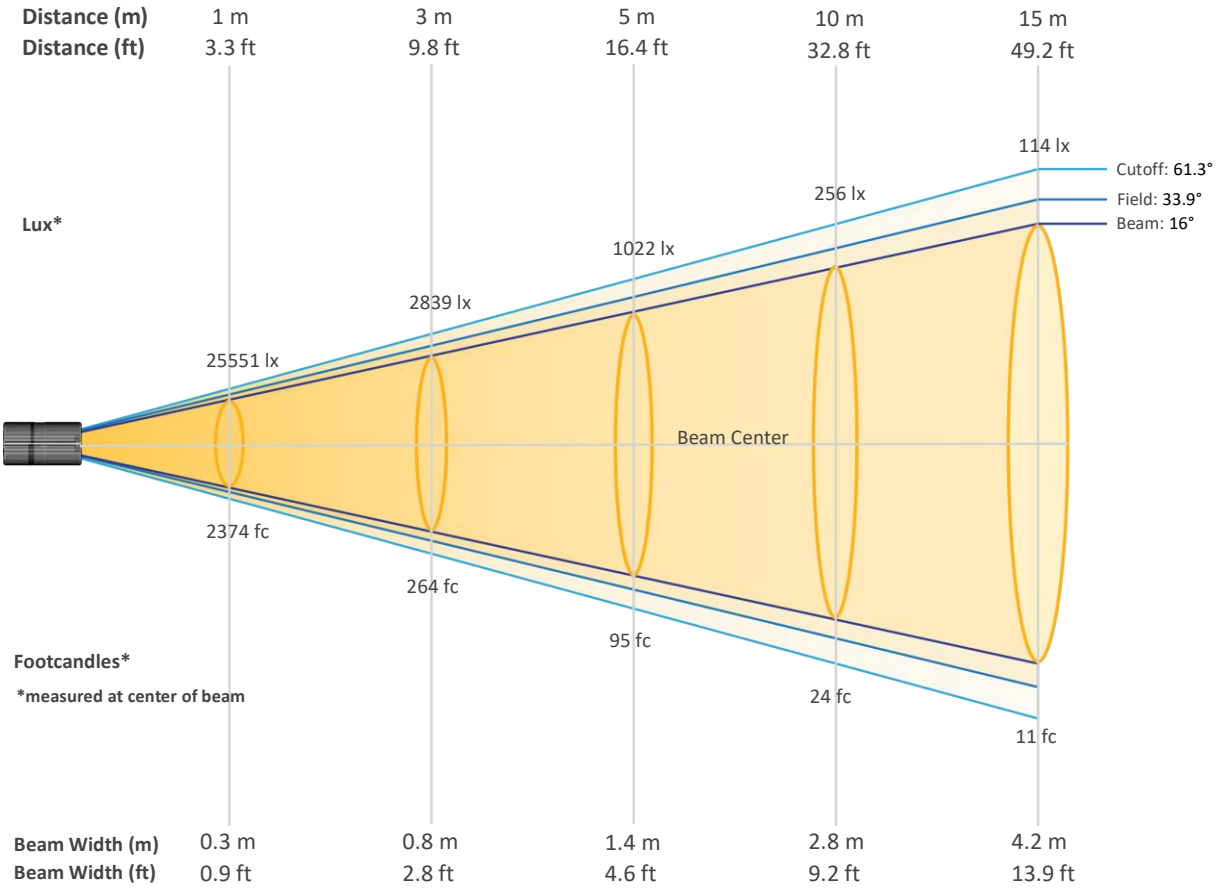
Color Temperature

6842 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 5600K-AC

Beam Details

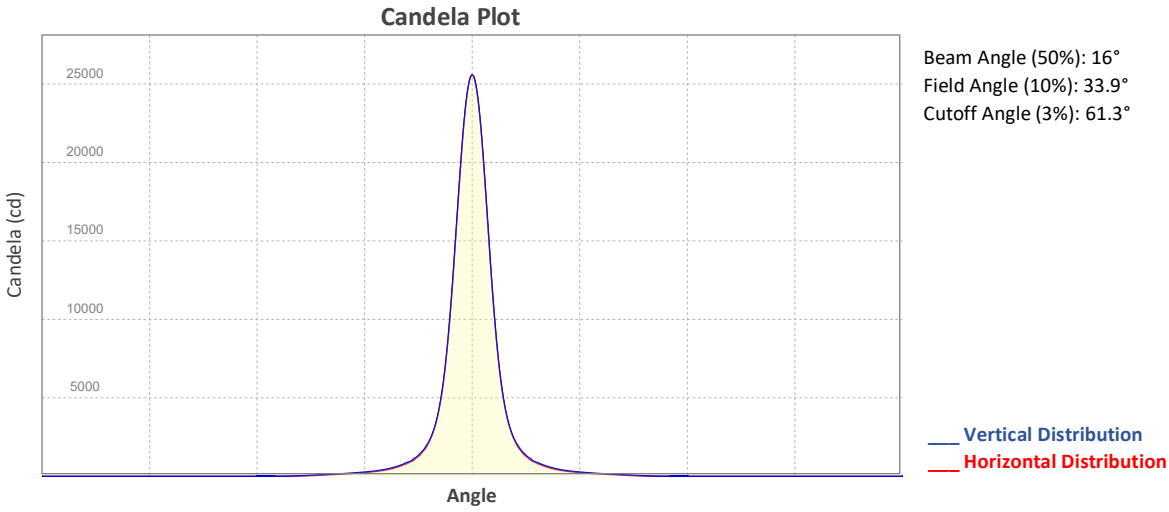


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	25551	6388	2839	1597	1022	710	521	399	315	256
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	211	177	151	130	114	100	88	79	71	64
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	2374	593	264	148	95	66	48	37	29	24
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	20	16	14	12	11	9	8	7	7	6

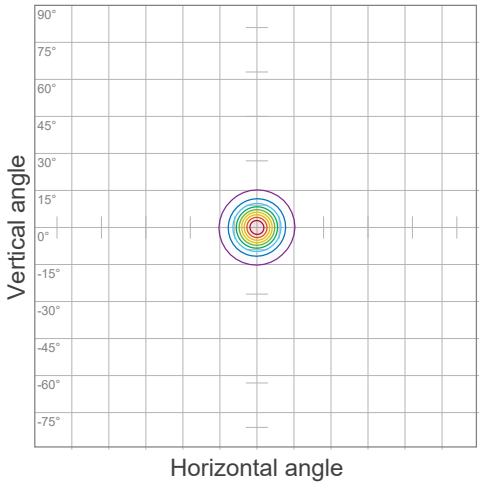
Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 5600K-AC



ISO Diagrams

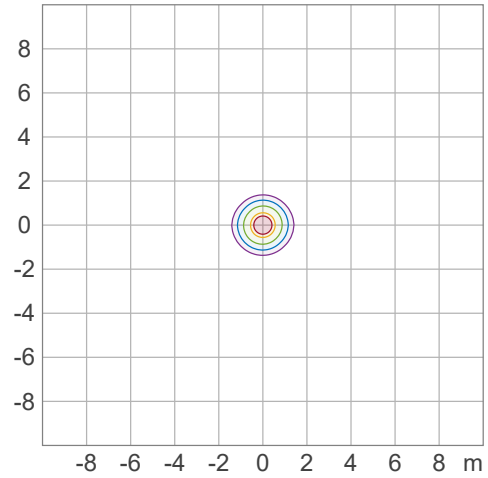
ISO Candela Diagram



90 %	22996.0 cd
80 %	20440.9 cd
70 %	17885.8 cd
60 %	15330.7 cd
50 %	12775.6 cd
40 %	10220.5 cd
30 %	7665.3 cd
20 %	5110.2 cd
10 %	2555.1 cd

Peak intensity: 25551.2 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	1419.5 lx
30.0 %	851.7 lx
10.0 %	283.9 lx
5.0 %	142.0 lx
3.0 %	85.2 lx

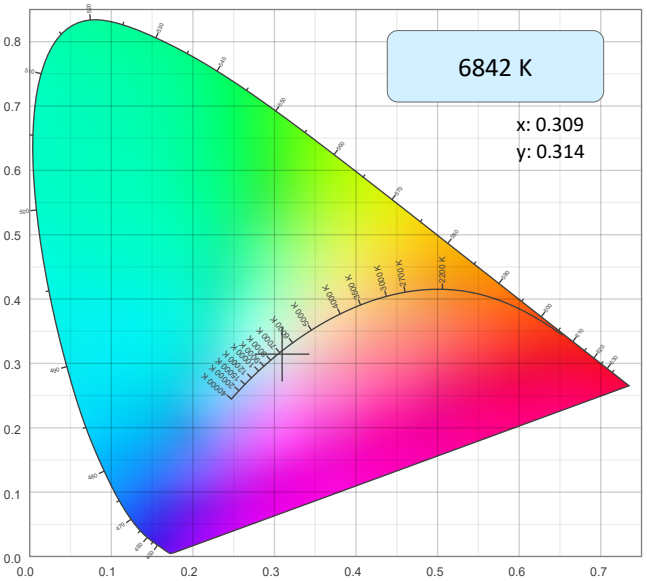
Peak illuminance: 2839.0 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

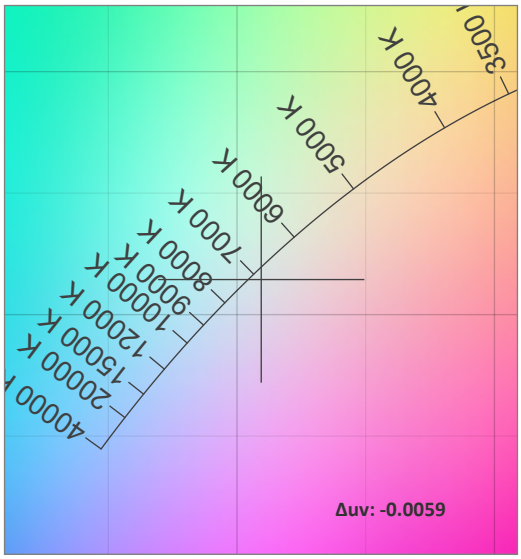
Well Batten 14: Standard Optics - 5600K-AC

Chromaticity

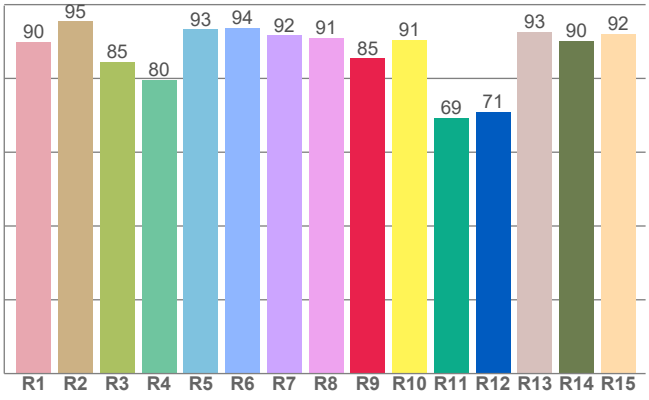
CIE 1931



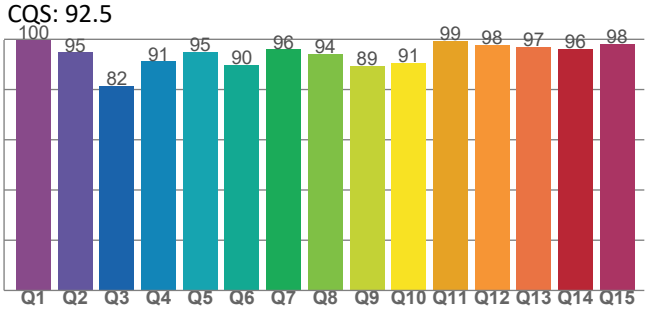
CIE 1931 - Zoom



CRI: 89.9 (R1-R8)



CQS: 92.5



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6842 K	0.309	0.314

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
-0.0059	0.314	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
89.9	85.4	92.5

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
87	89.0	108.1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics - 5600K-AC

TM-30 Details

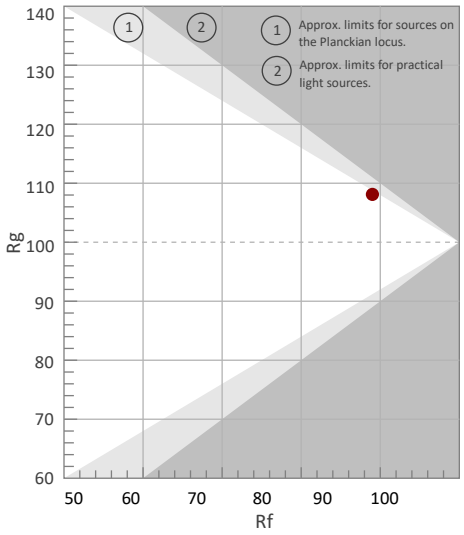
Rf 89.0

Fidelity Index (Rg)

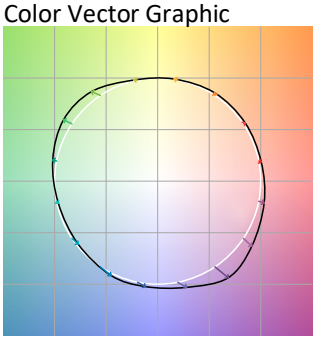
Rg 108.1

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	93	2%	-1%
2	94	2%	0%
3	94	2%	2%
4	93	0%	4%
5	88	1%	4%
6	87	8%	5%
7	87	9%	1%
8	92	4%	0%
9	92	-1%	2%
10	88	-2%	8%
11	77	1%	13%
12	87	3%	8%
13	88	6%	7%
14	80	16%	5%
15	85	11%	-2%
16	90	5%	-1%

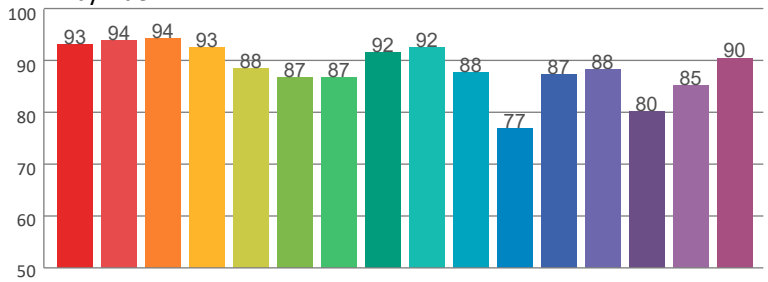


Color Vector Graphic

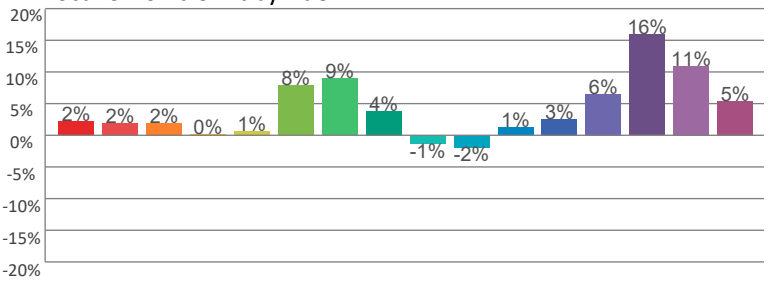


Color Distortion Graphic

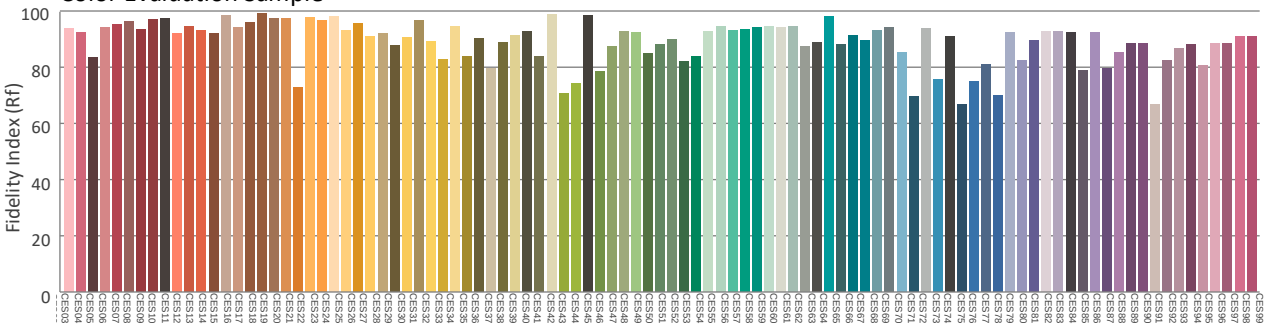
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10Filter - Full Power-5hrs

Report Summary

Measurements

Fixture Output: 1789 lm
Fixture Peak: 3345 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 131 lux
Color Temperature: 6221 K
CRI: 85.1 CRI R9 Value: 49.8
CQS: 90.0
TLCI: 74
TM-30 Rf: 87.6
TM-30 Rg: 110.8
Beam Angle (50%): 32°
Field Angle (10%): 70.5°
Cutoff Angle (3%): 126.9°

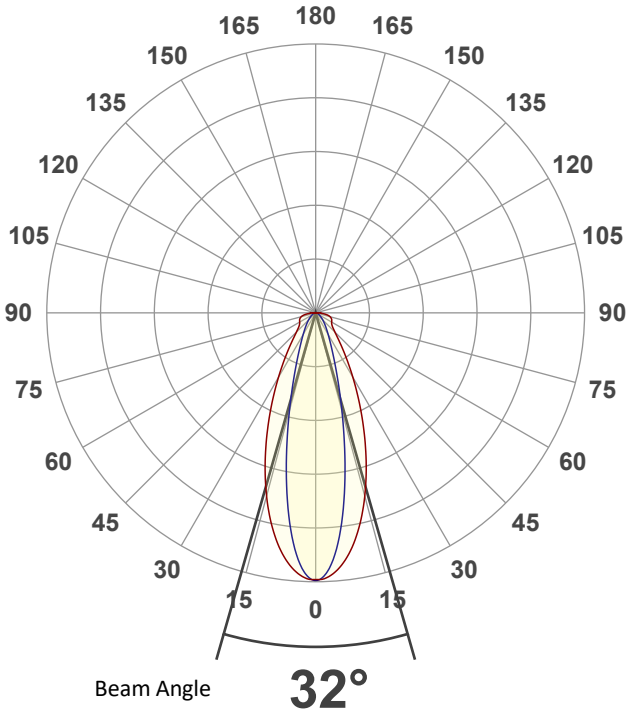
Conditions

AC Supply: 119 V, 60 Hz
Power: 0.0 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 Davie, FL on 4/14/2025 to LM-63-2002 Standards.

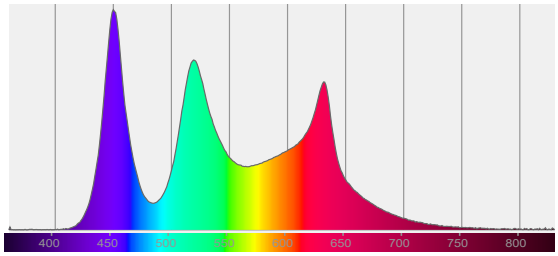
Overall Measurement

Angular Beam Distribution



Beam Angle 32°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.318
Y: 0.331

Light Quality

CRI: 85.1

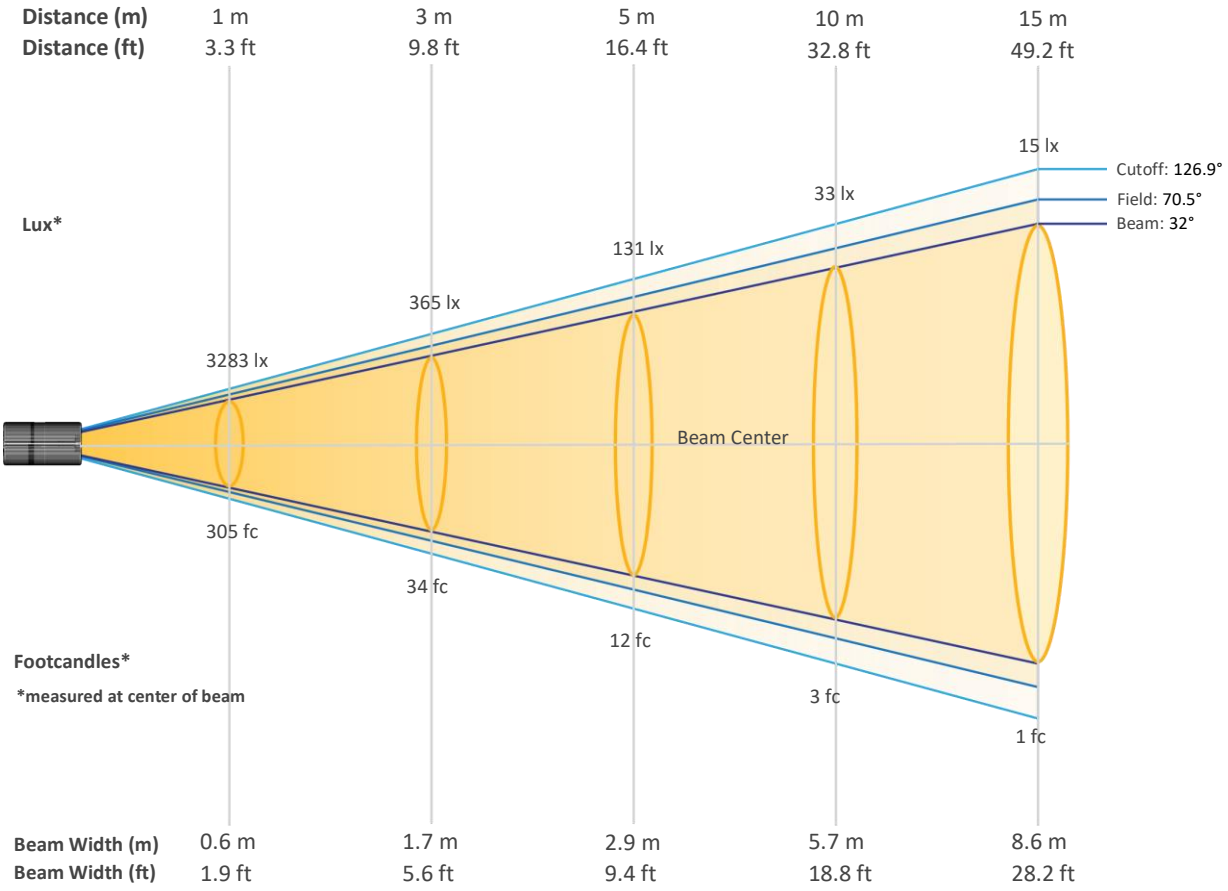
Color Temperature

6221 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10Filter - Full Power-5hrs

Beam Details

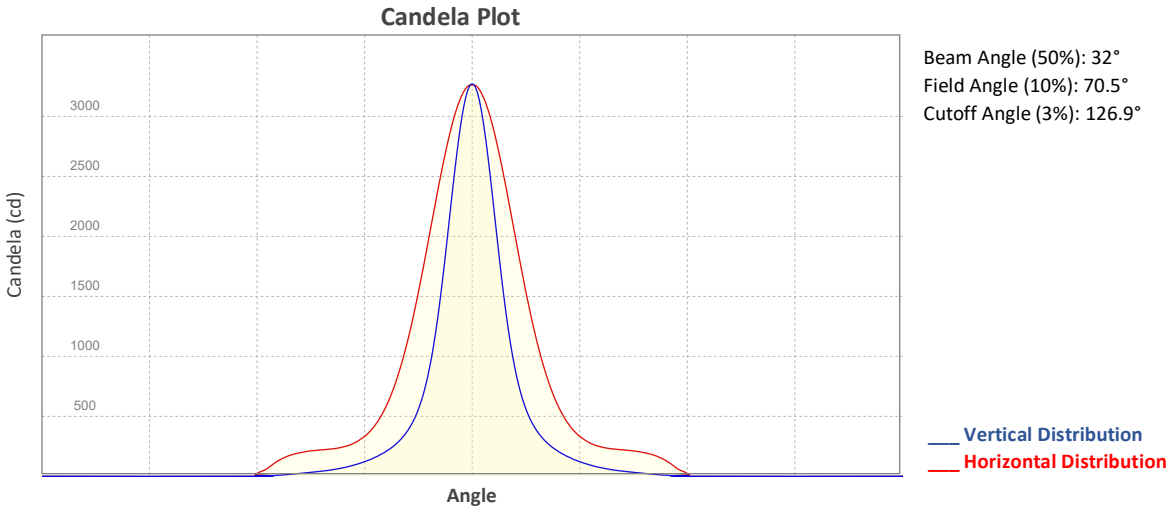


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3283	821	365	205	131	91	67	51	41	33
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	27	23	19	17	15	13	11	10	9	8
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	305	76	34	19	12	8	6	5	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	2	2	2	1	1	1	1	1	1

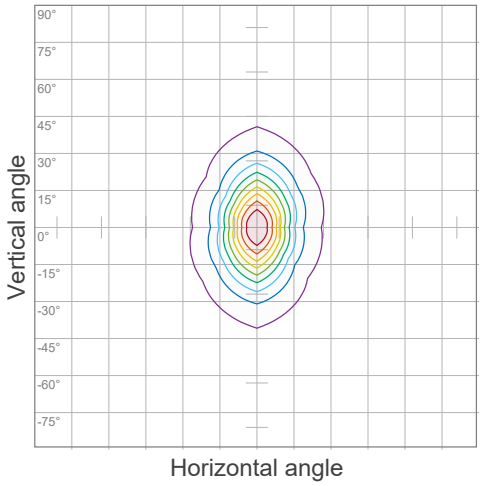
Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10Filter - Full Power-5hrs



ISO Diagrams

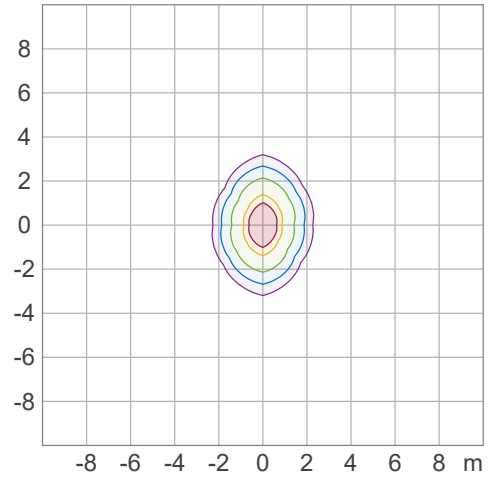
ISO Candela Diagram



90 %	2955.1 cd
80 %	2626.8 cd
70 %	2298.4 cd
60 %	1970.1 cd
50 %	1641.7 cd
40 %	1313.4 cd
30 %	985.0 cd
20 %	656.7 cd
10 %	328.3 cd

Peak intensity: 3283.5 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	182.4 lx
30.0 %	109.4 lx
10.0 %	36.5 lx
5.0 %	18.2 lx
3.0 %	10.9 lx

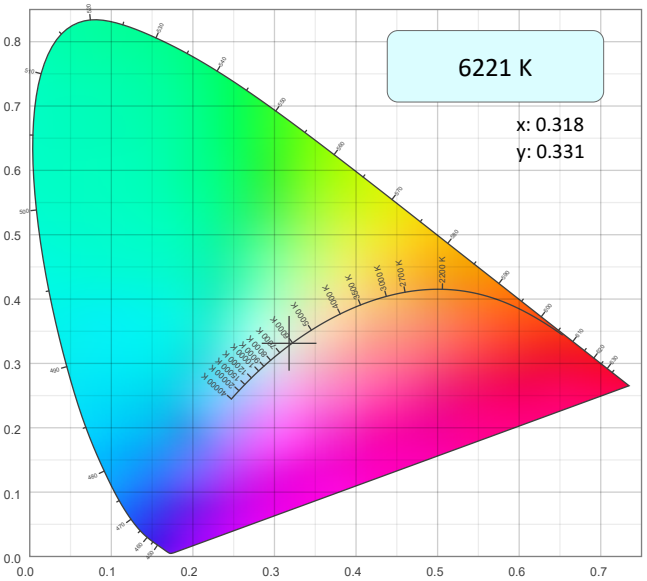
Peak illuminance: 364.8 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

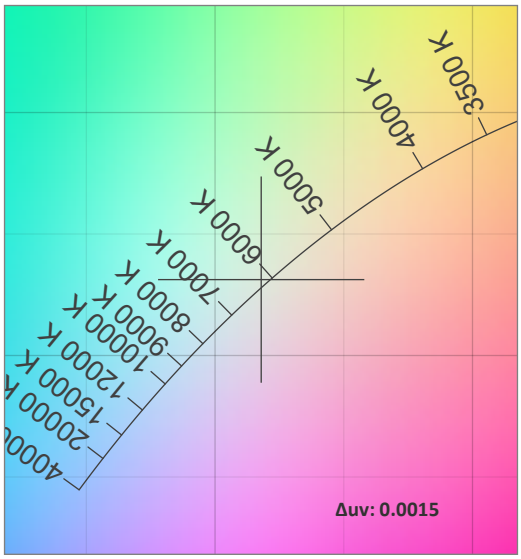
Well Batten 14: Standard Optics-w/60X10Filter - Full Power-5hrs

Chromaticity

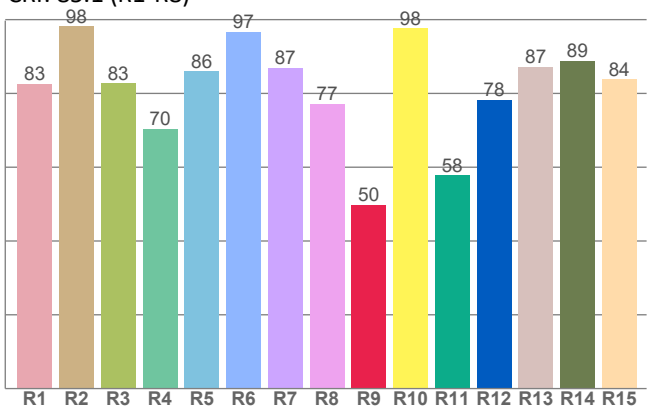
CIE 1931



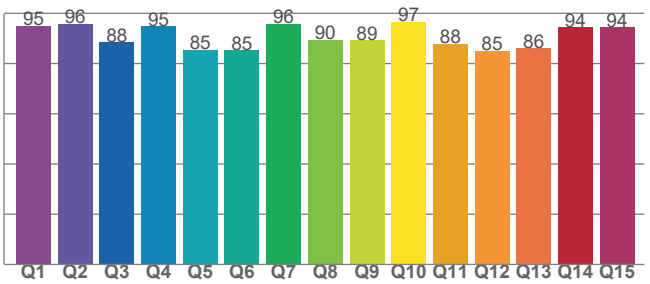
CIE 1931 - Zoom



CRI: 85.1 (R1-R8)



CQS: 90.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6221 K	0.318	0.331

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0015	0.331	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.1	49.8	90.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	87.6	110.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10Filter - Full Power-5hrs

TM-30 Details

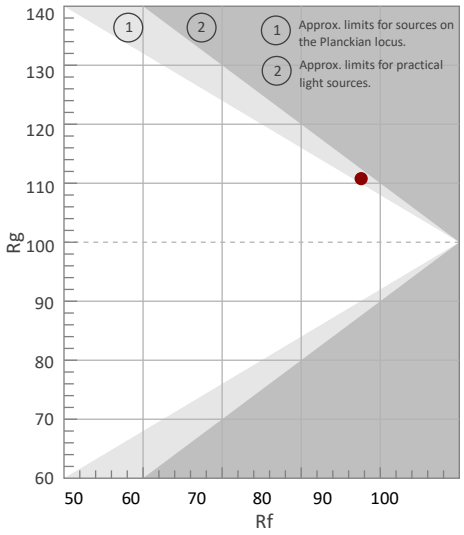
Rf 87.6

Fidelity Index (Rg)

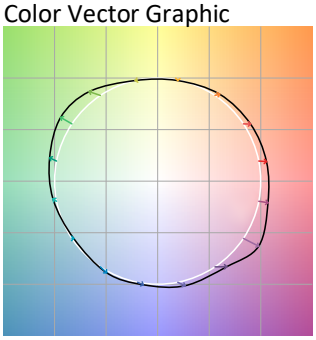
Rg 110.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-1%	1%
11	86	1%	8%
12	91	1%	6%
13	91	5%	6%
14	82	6%	10%
15	82	17%	2%
16	84	9%	0%

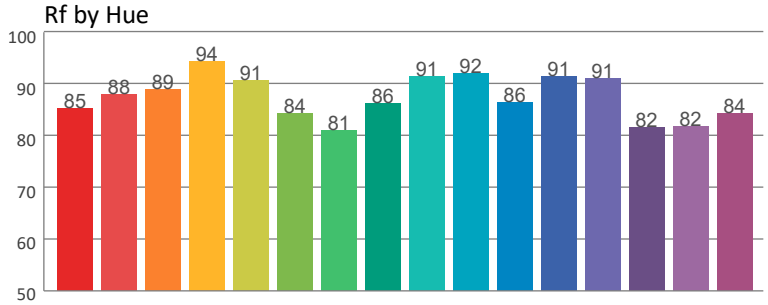


Color Vector Graphic

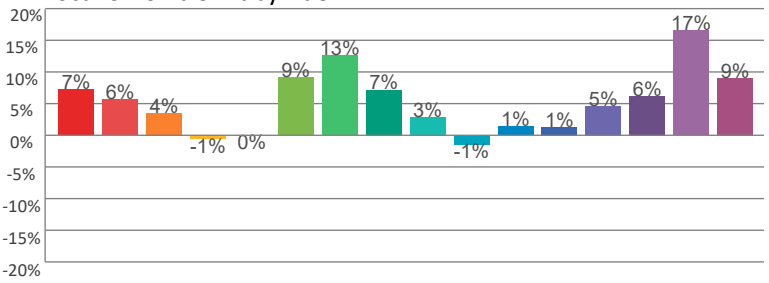


Color Distortion Graphic

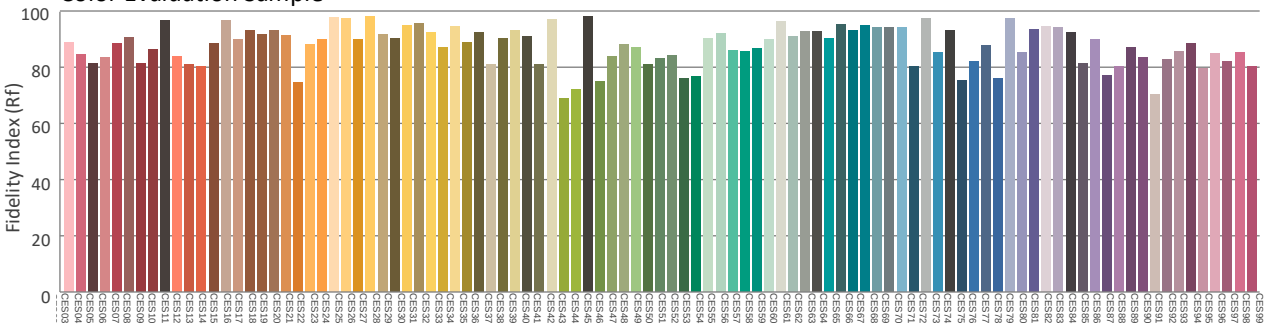
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-8hrs

Report Summary

Measurements

Fixture Output: 1105 lm
Fixture Peak: 2004 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 79 lux
Color Temperature: 6173 K
CRI: 85.1 CRI R9 Value: 51.1
CQS: 89.9
TLCI: 73
TM-30 Rf: 87.6
TM-30 Rg: 110.9
Beam Angle (50%): 32°
Field Angle (10%): 71°
Cutoff Angle (3%): 125.3°

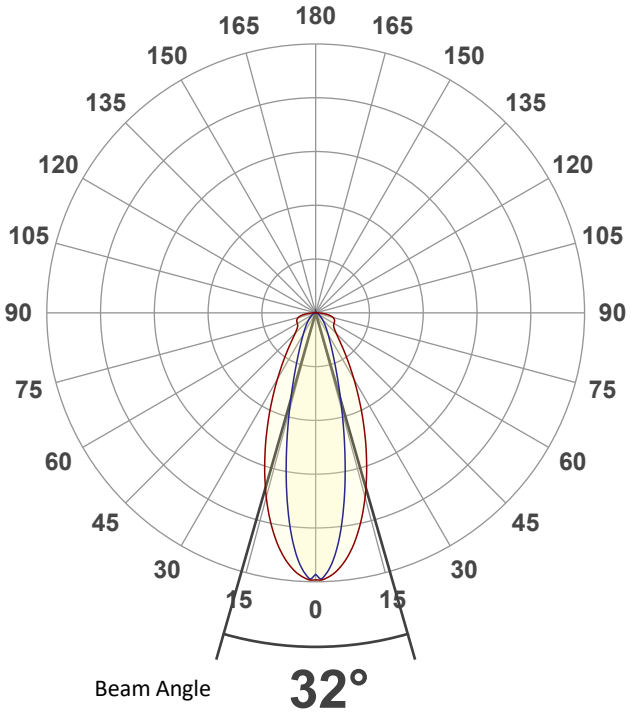
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 0.0 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 Davie, FL on 4/14/2025 to LM-63-2002 Standards.

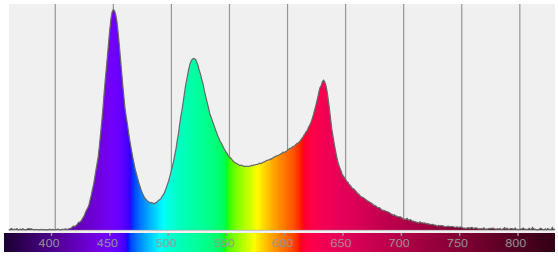
Overall Measurement

Angular Beam Distribution



Beam Angle 32°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.319
Y: 0.333

Light Quality

CRI: 85.1

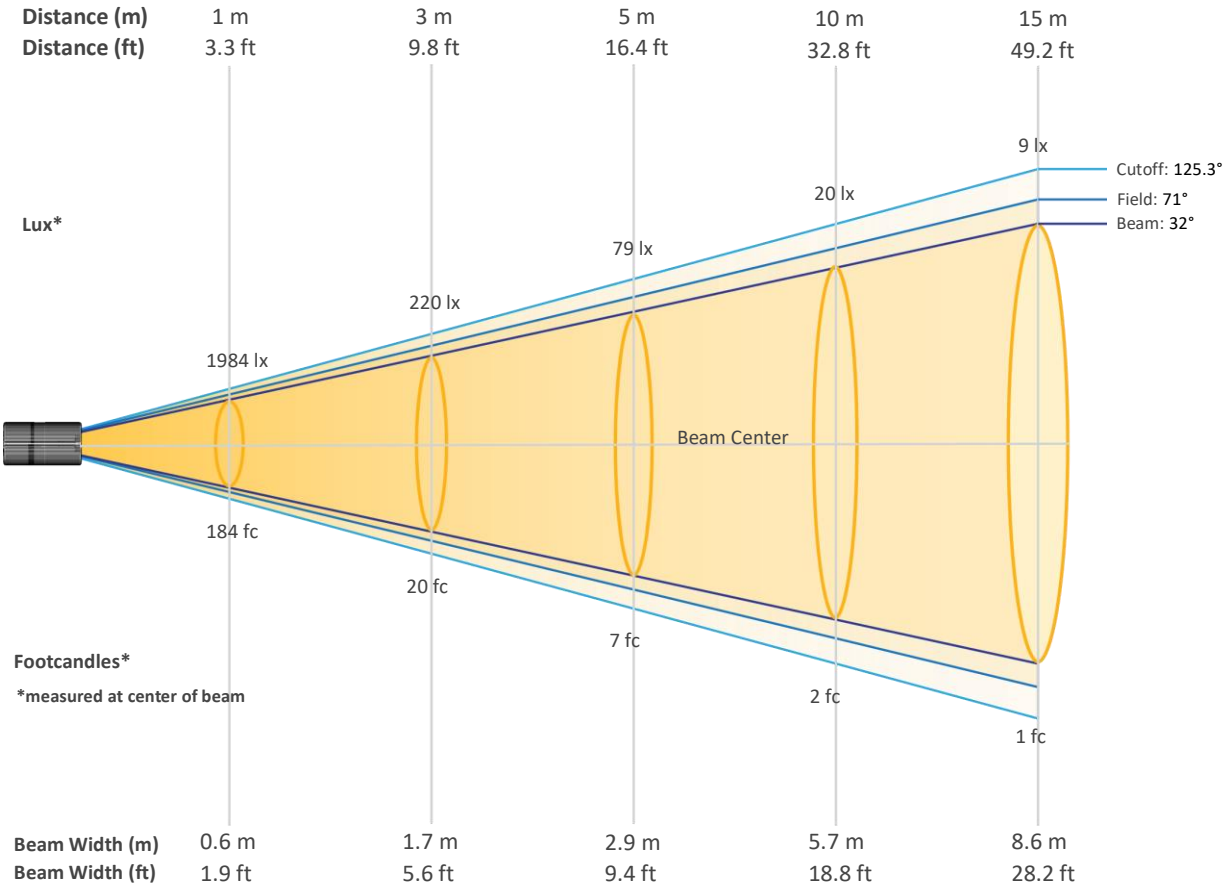
Color Temperature

6173 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-8hrs

Beam Details

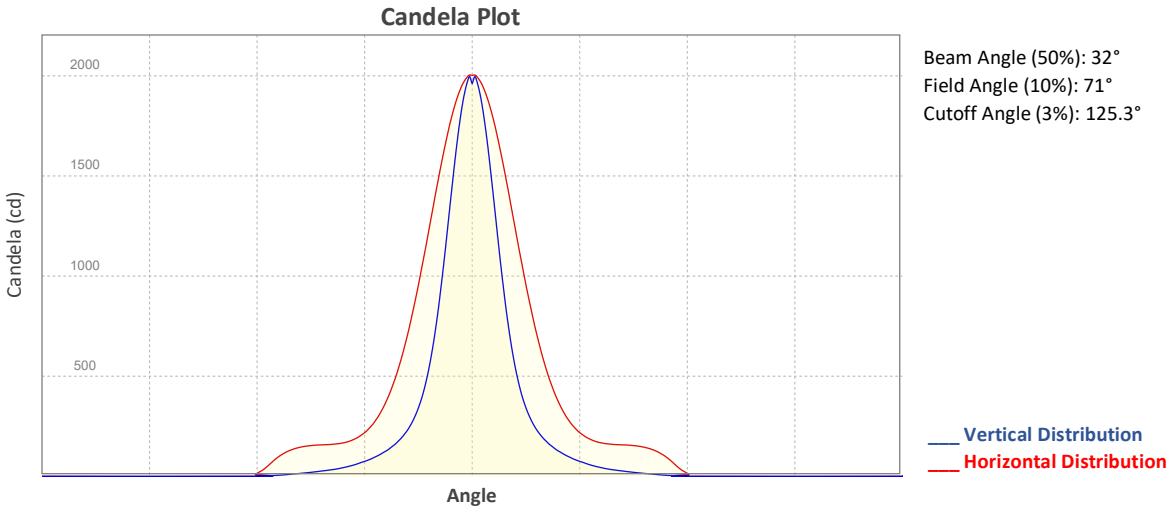


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1984	496	220	124	79	55	40	31	24	20
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	16	14	12	10	9	8	7	6	5	5
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	184	46	20	12	7	5	4	3	2	2
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	1	1	1	1	1	1	1	1	0

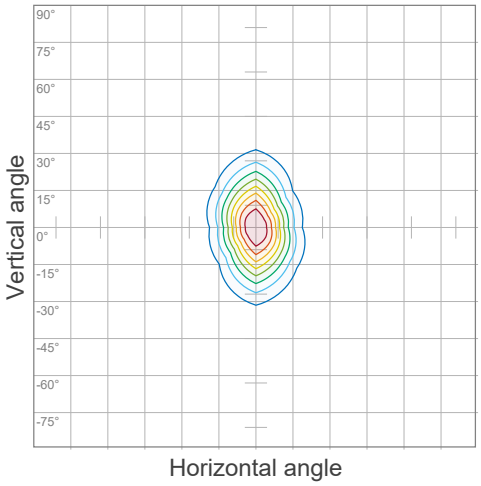
Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-8hrs



ISO Diagrams

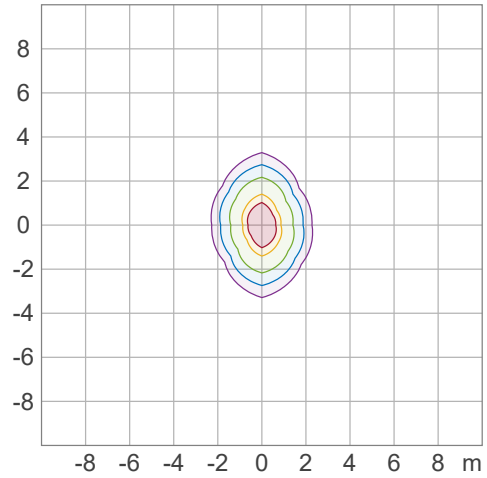
ISO Candela Diagram



90 %	1802.9 cd
80 %	1602.6 cd
70 %	1402.2 cd
60 %	1201.9 cd
50 %	1001.6 cd
40 %	801.3 cd
30 %	601.0 cd
20 %	400.6 cd
10 %	200.3 cd

Peak intensity: 2003.2 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	111.2 lx
30.0 %	66.7 lx
10.0 %	22.2 lx
5.0 %	11.1 lx
3.0 %	6.7 lx

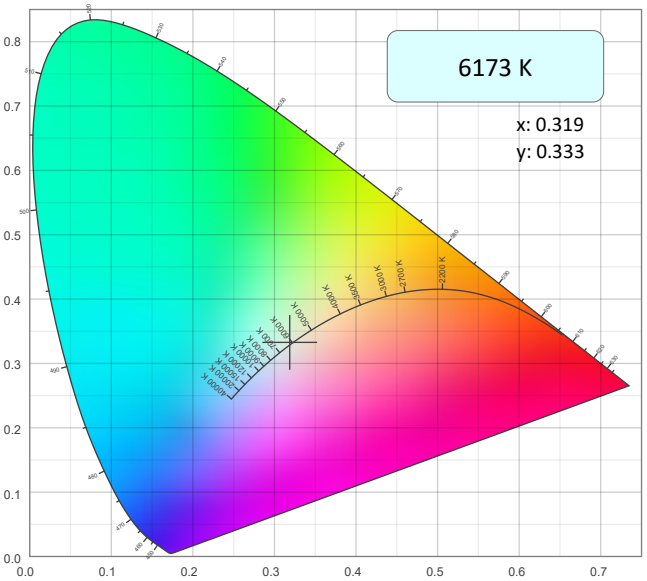
Peak illuminance: 222.5 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

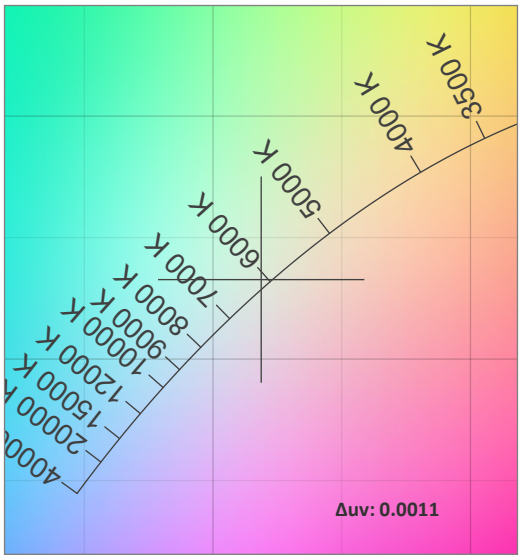
Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-8hrs

Chromaticity

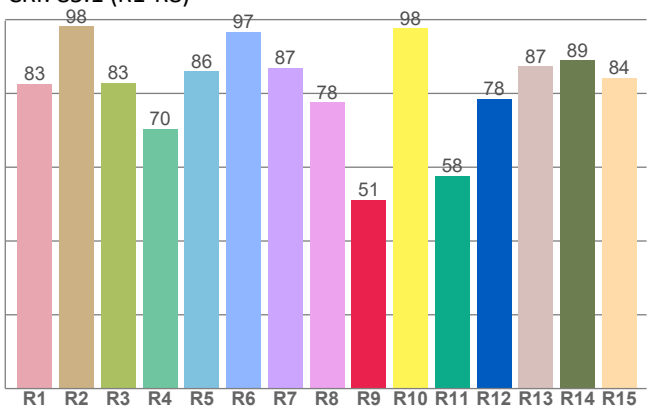
CIE 1931



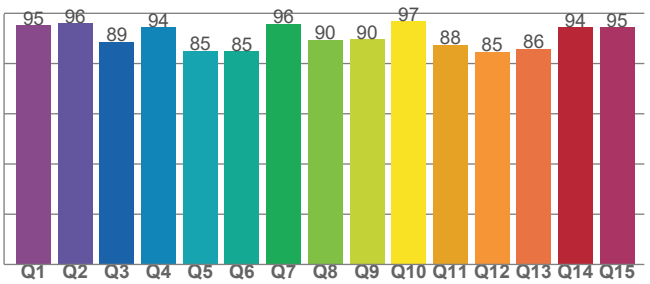
CIE 1931 - Zoom



CRI: 85.1 (R1-R8)



CQS: 89.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6173 K	0.319	0.333

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0011	0.333	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.1	51.1	89.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	87.6	110.9

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-8hrs

TM-30 Details

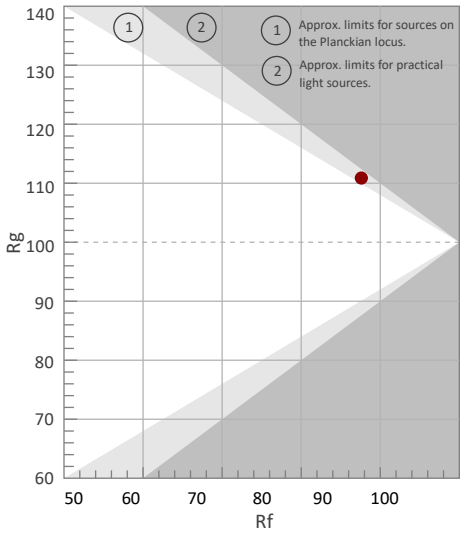
Rf 87.6

Fidelity Index (Rg)

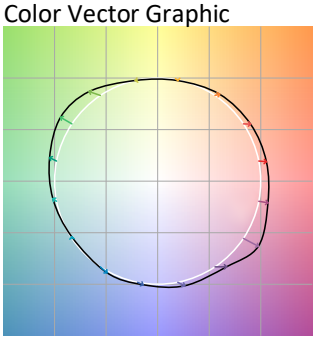
Rg 110.9

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	3%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	94	-1%	-1%
11	86	1%	9%
12	92	1%	6%
13	91	5%	6%
14	82	6%	9%
15	82	16%	2%
16	84	9%	0%

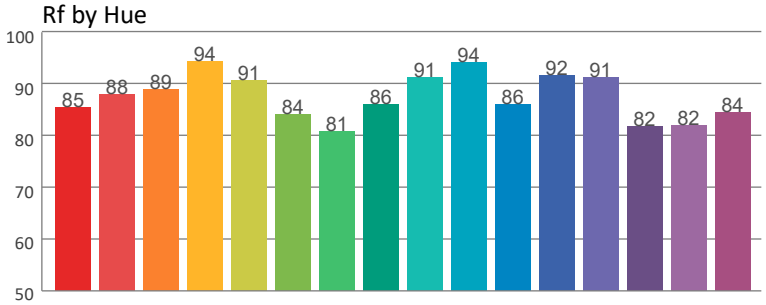


Color Vector Graphic

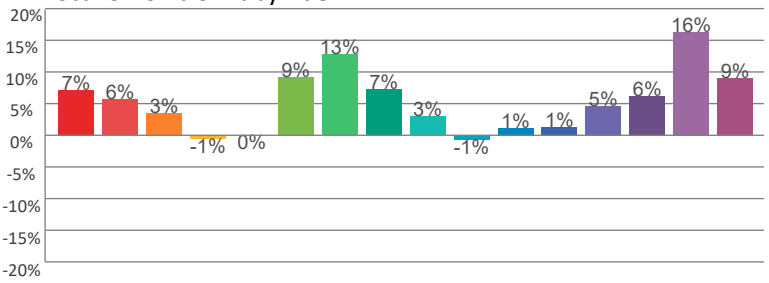


Color Distortion Graphic

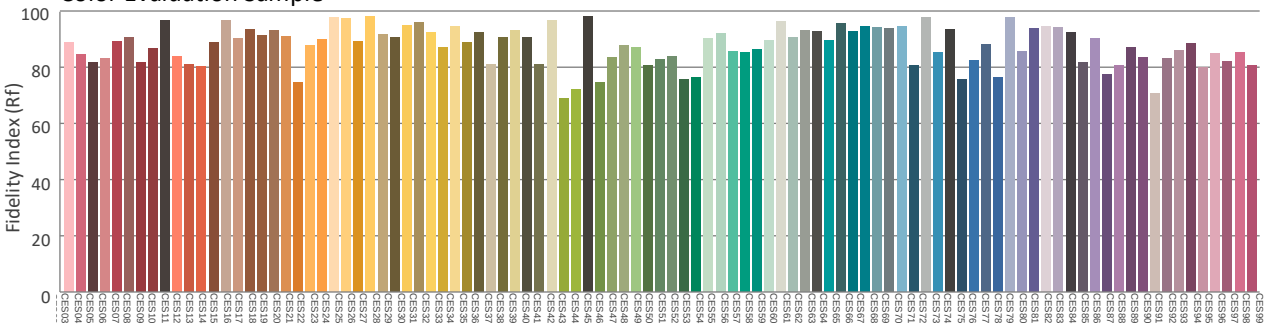
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-12hrs

Report Summary

Measurements

Fixture Output: 687 lm
Fixture Peak: 1249 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 50 lux
Color Temperature: 6154 K
CRI: 85.3 CRI R9 Value: 52.4
CQS: 89.8
TLCI: 72
TM-30 Rf: 87.7
TM-30 Rg: 110.8
Beam Angle (50%): 32.1°
Field Angle (10%): 71°
Cutoff Angle (3%): 125.6°

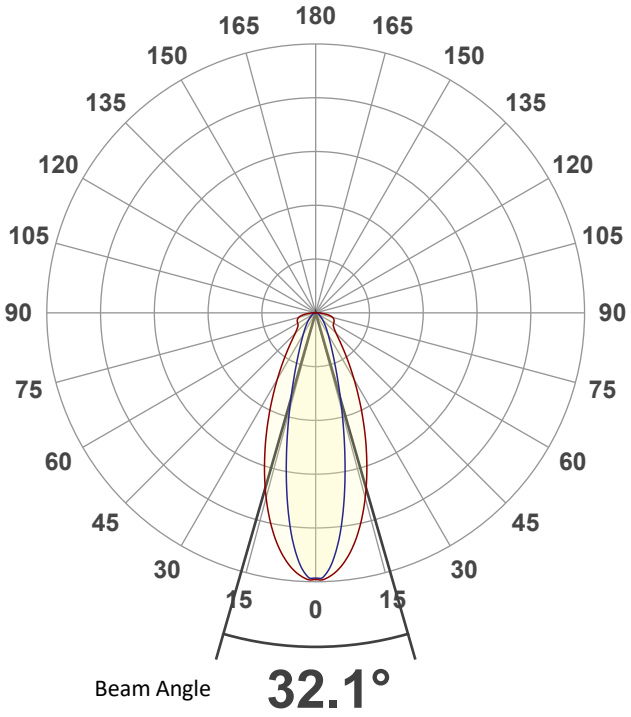
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 0.0 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 Davie, FL on 4/14/2025 to LM-63-2002 Standards.

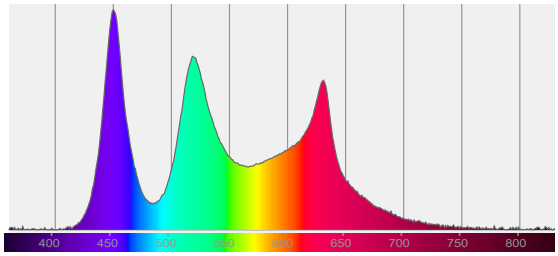
Overall Measurement

Angular Beam Distribution



Beam Angle 32.1°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.319
Y: 0.333

Light Quality

CRI: 85.3

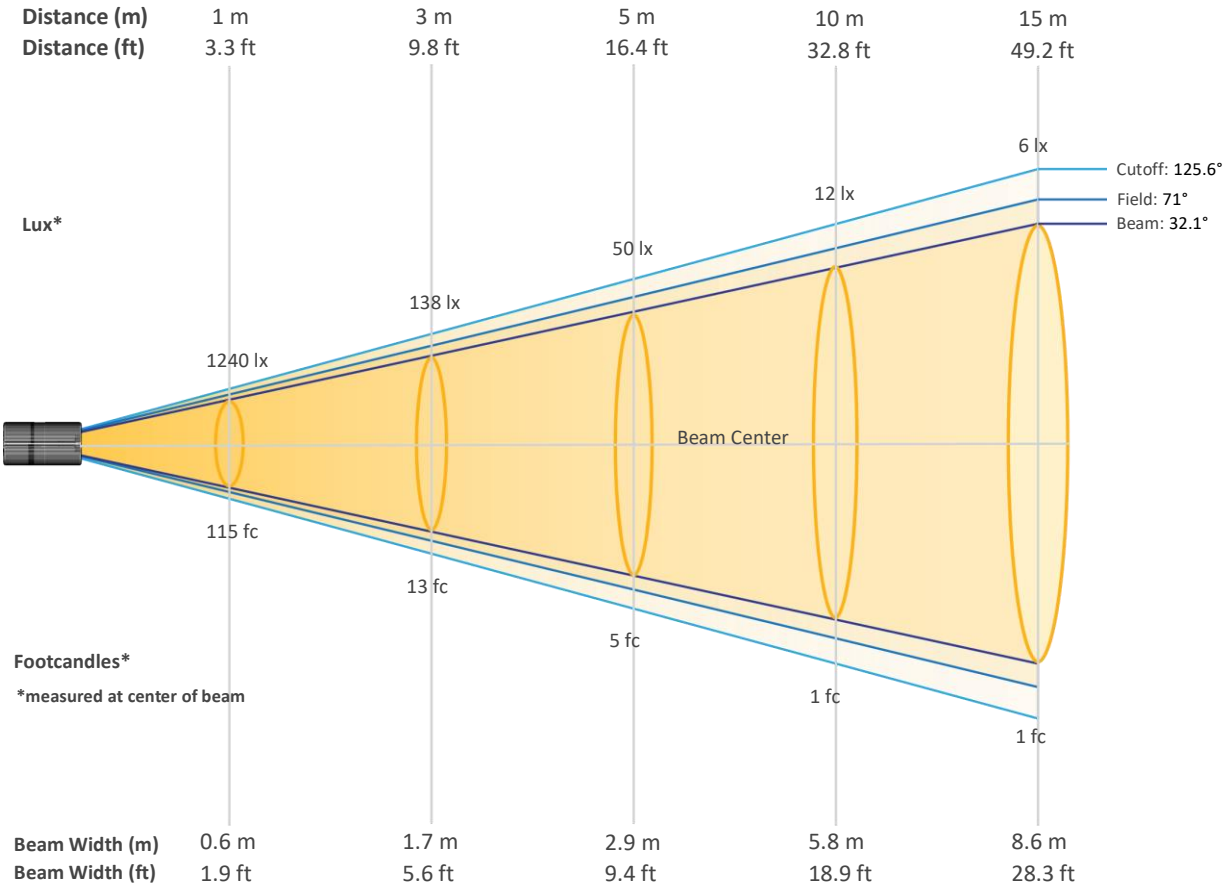
Color Temperature

6154 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-12hrs

Beam Details



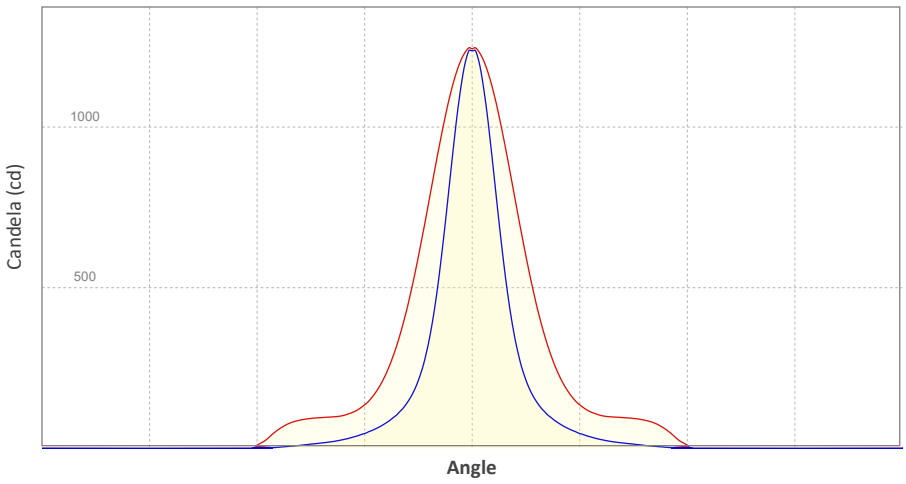
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	1240	310	138	77	50	34	25	19	15	12
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	10	9	7	6	6	5	4	4	3	3
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	115	29	13	7	5	3	2	2	1	1
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	1	1	1	1	1	0	0	0	0	0

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-12hrs

Candela Plot

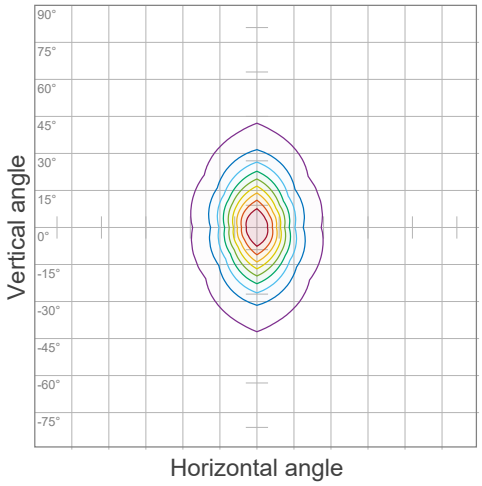


Beam Angle (50%): 32.1°
Field Angle (10%): 71°
Cutoff Angle (3%): 125.6°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

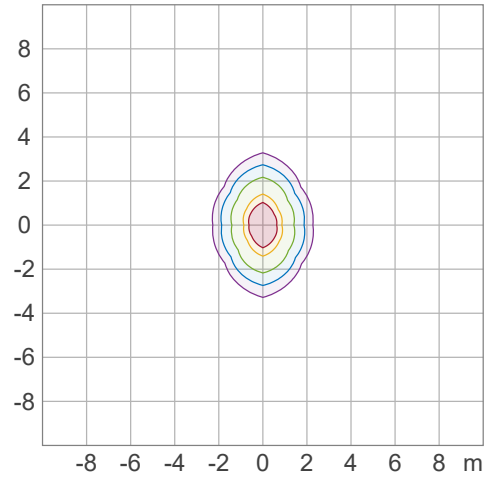
ISO Candela Diagram



90 %	1121.6 cd
80 %	997.0 cd
70 %	872.4 cd
60 %	747.7 cd
50 %	623.1 cd
40 %	498.5 cd
30 %	373.9 cd
20 %	249.2 cd
10 %	124.6 cd

Peak intensity: 1246.2 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	69.2 lx
30.0 %	41.5 lx
10.0 %	13.8 lx
5.0 %	6.9 lx
3.0 %	4.2 lx

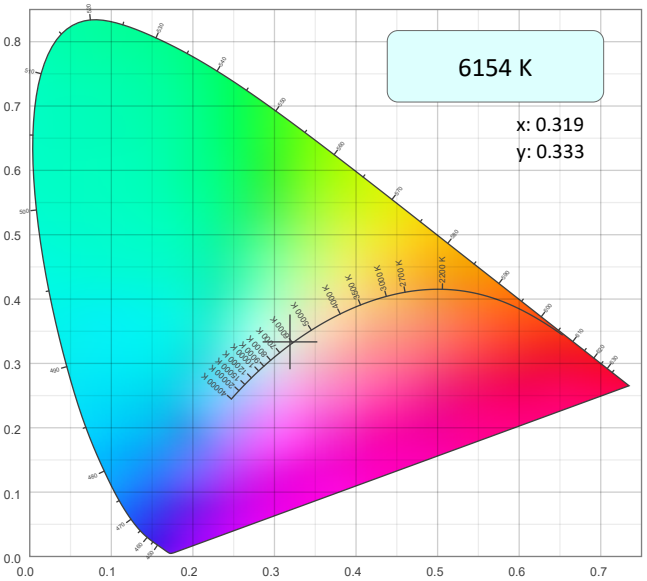
Peak illuminance: 138.4 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

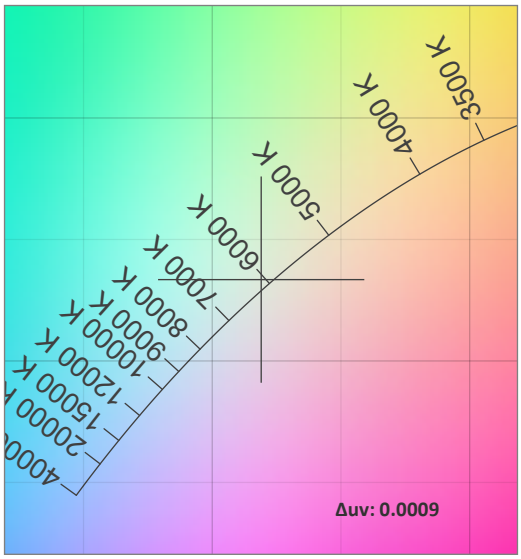
Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-12hrs

Chromaticity

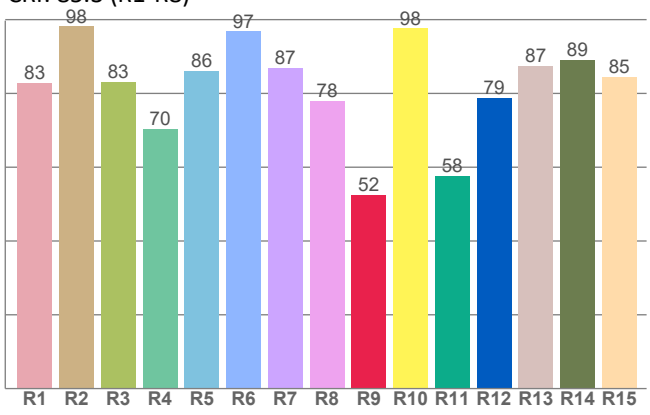
CIE 1931



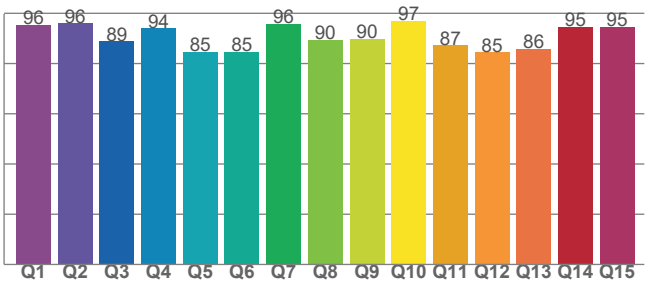
CIE 1931 - Zoom



CRI: 85.3 (R1-R8)



CQS: 89.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6154 K	0.319	0.333

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0009	0.333	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.3	52.4	89.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
72	87.7	110.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-12hrs

TM-30 Details

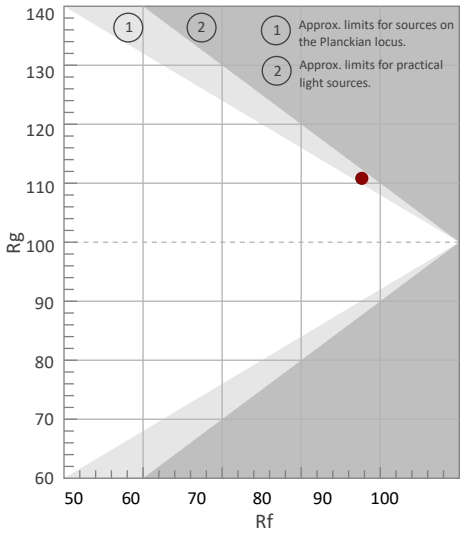
Rf 87.7

Fidelity Index (Rg)

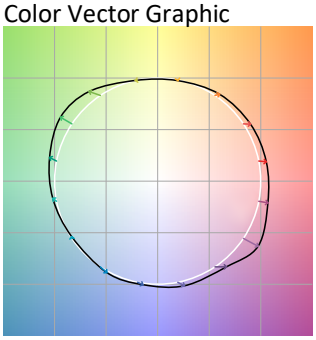
Rg 110.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	3%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	94	-1%	-2%
11	86	1%	8%
12	92	1%	6%
13	91	5%	6%
14	82	6%	9%
15	82	16%	2%
16	84	9%	0%

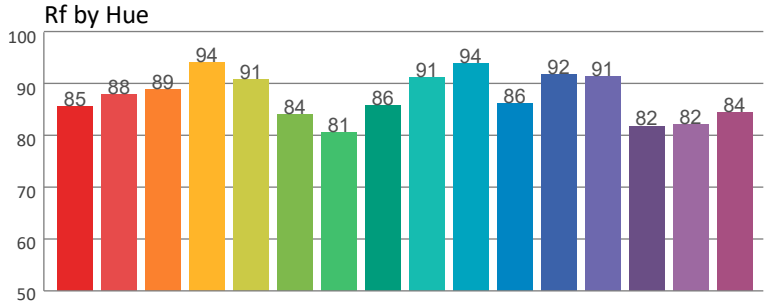


Color Vector Graphic

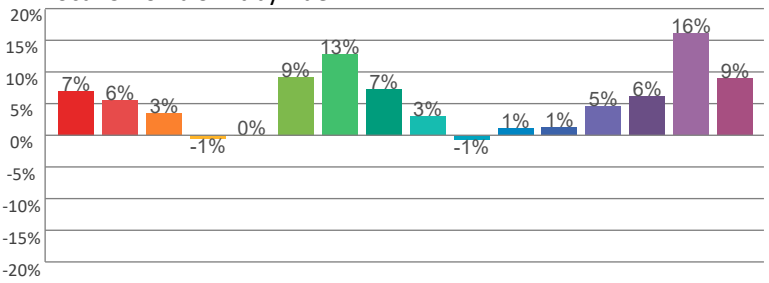


Color Distortion Graphic

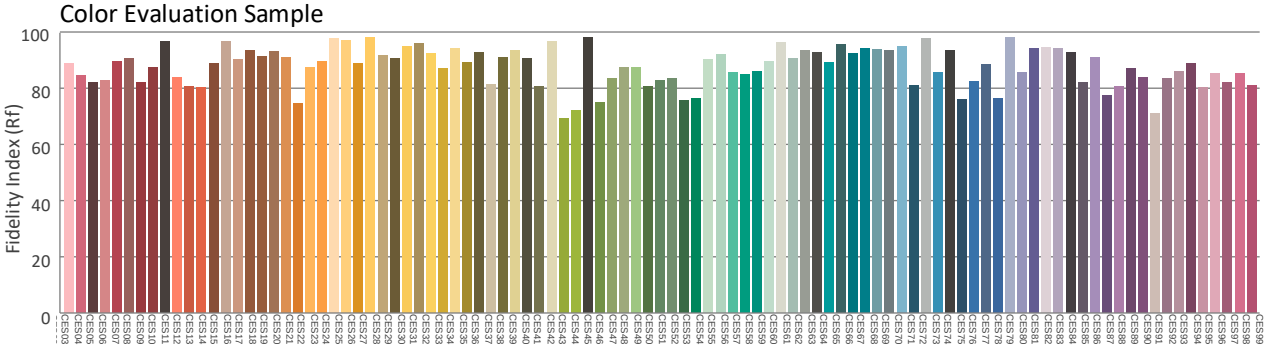
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-18hrs

Report Summary

Measurements

Fixture Output: 428 lm
Fixture Peak: 766 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 30 lux
Color Temperature: 6092 K
CRI: 85.6 CRI R9 Value: 55.6
CQS: 89.7
TLCI: 71
TM-30 Rf: 87.8
TM-30 Rg: 110.6
Beam Angle (50%): 31.9°
Field Angle (10%): 70.9°
Cutoff Angle (3%): 125.9°

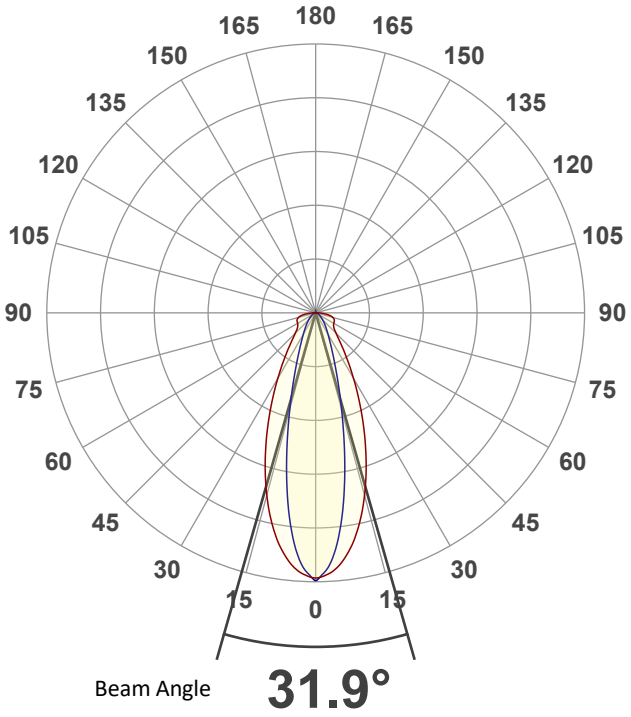
Conditions

AC Supply: 119 V, 60 Hz
Power: 0.0 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 Davie, FL on 4/14/2025 to LM-63-2002 Standards.

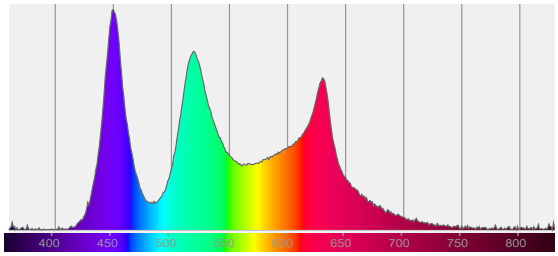
Overall Measurement

Angular Beam Distribution



Beam Angle 31.9°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.320
Y: 0.336

Light Quality

CRI: 85.6

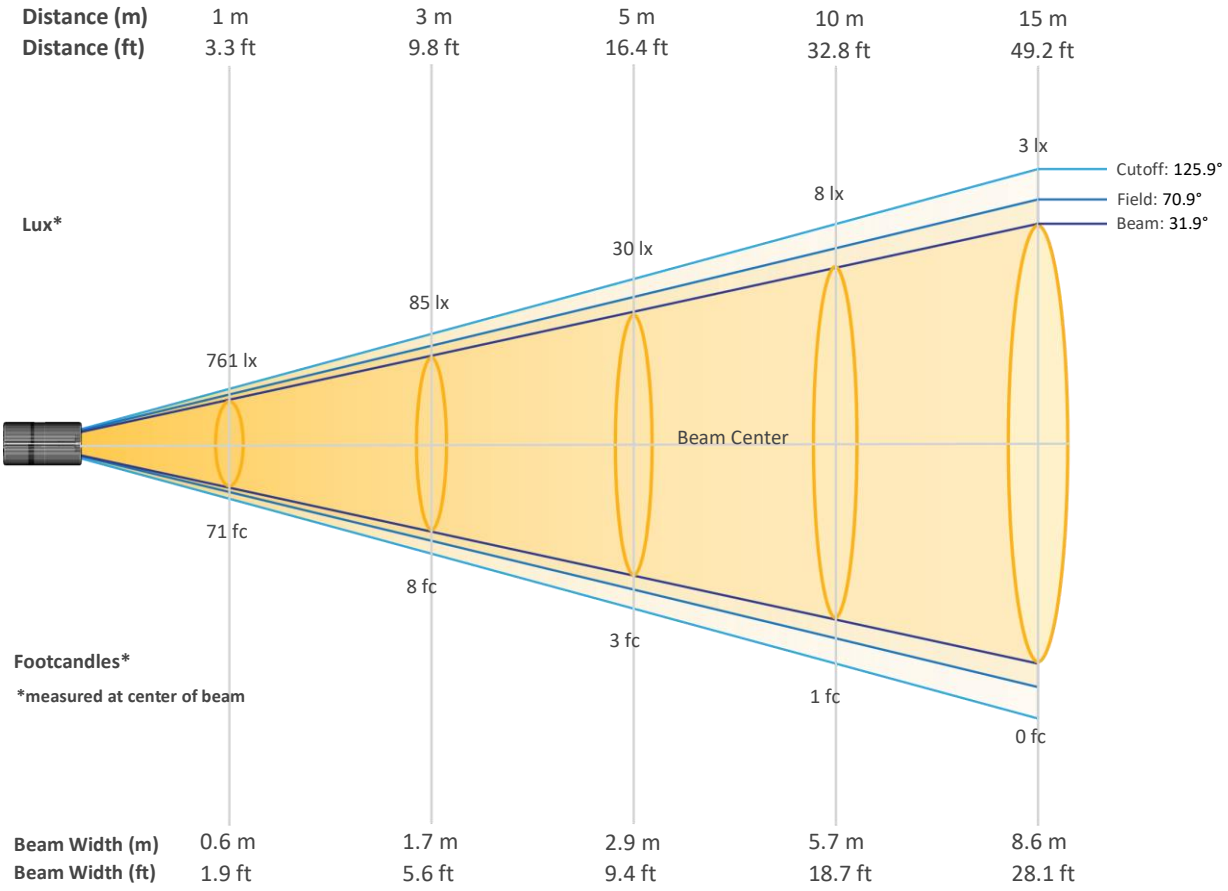
Color Temperature

6092 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-18hrs

Beam Details

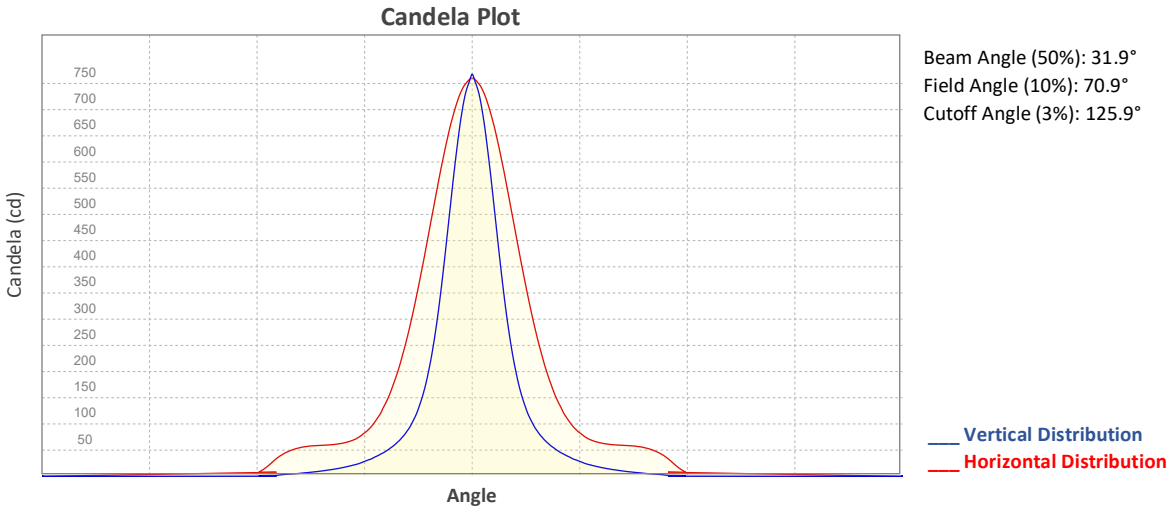


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	761	190	85	48	30	21	16	12	9	8
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	6	5	5	4	3	3	3	2	2	2
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	71	18	8	4	3	2	1	1	1	1
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	1	0	0	0	0	0	0	0	0	0

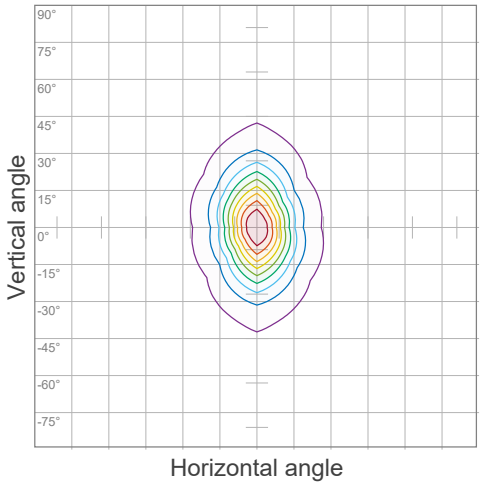
Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-18hrs



ISO Diagrams

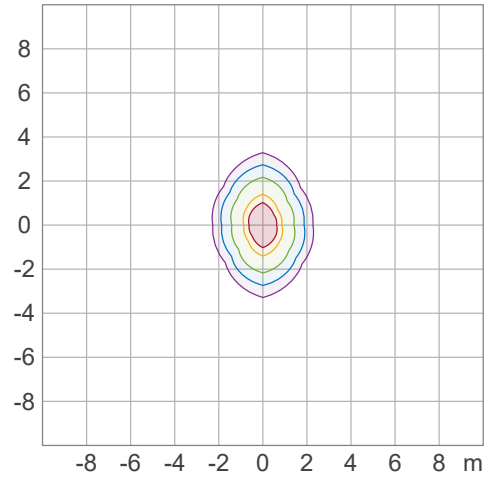
ISO Candela Diagram



90 %	685.0 cd
80 %	608.9 cd
70 %	532.8 cd
60 %	456.7 cd
50 %	380.6 cd
40 %	304.4 cd
30 %	228.3 cd
20 %	152.2 cd
10 %	76.1 cd

Peak intensity: 761.1 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	42.3 lx
30.0 %	25.4 lx
10.0 %	8.5 lx
5.0 %	4.2 lx
3.0 %	2.5 lx

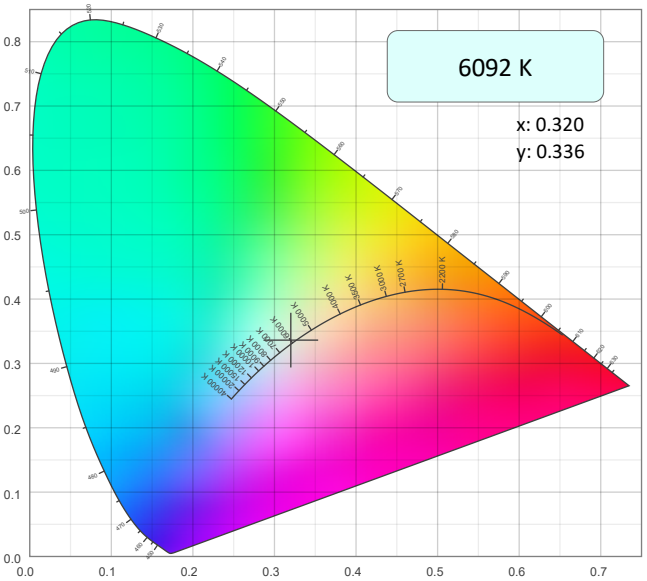
Peak illuminance: 84.6 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

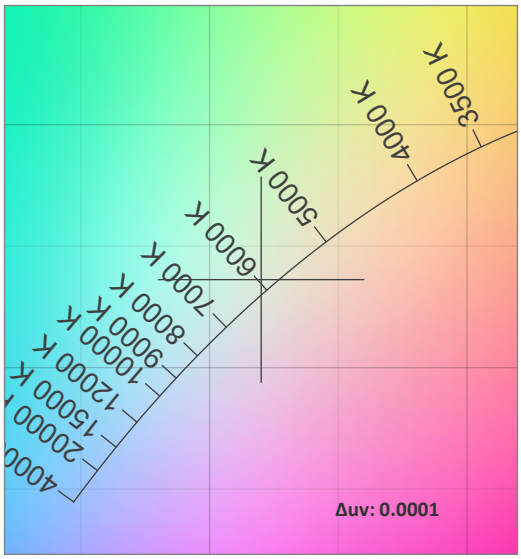
Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-18hrs

Chromaticity

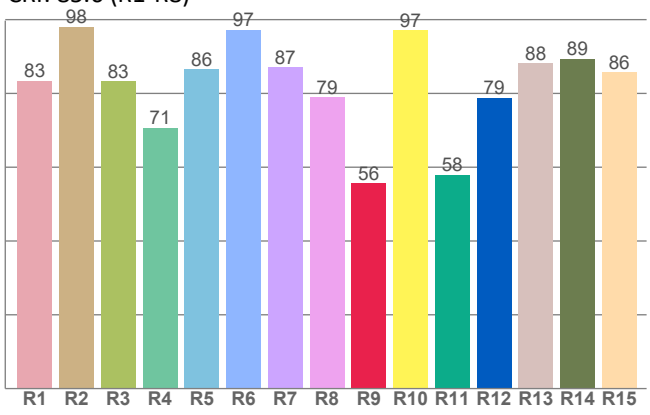
CIE 1931



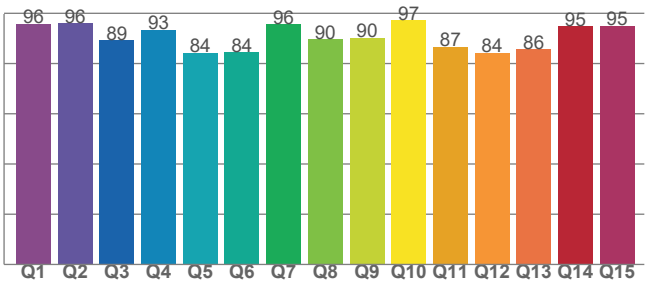
CIE 1931 - Zoom



CRI: 85.6 (R1-R8)



CQS: 89.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6092 K	0.320	0.336

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0001	0.336	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.6	55.6	89.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
71	87.8	110.6

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-18hrs

TM-30 Details

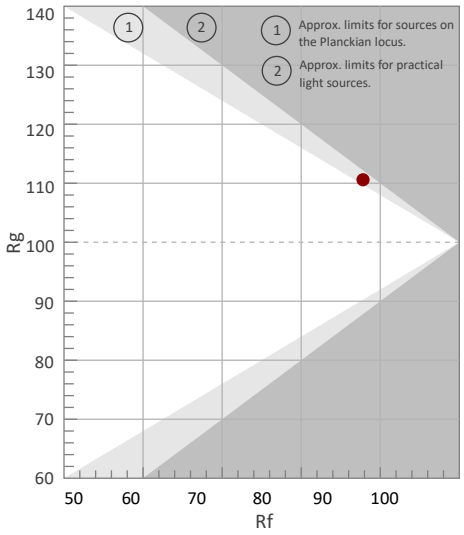
Rf 87.8

Fidelity Index (Rg)

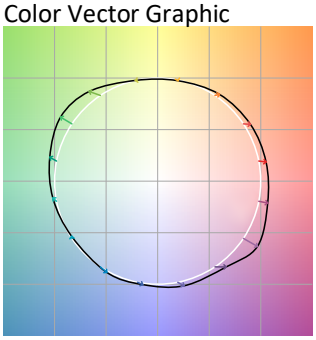
Rg 110.6

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	86	7%	-2%
2	88	5%	-4%
3	89	3%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-4%
10	94	-1%	-2%
11	86	1%	8%
12	92	1%	5%
13	92	5%	5%
14	82	6%	9%
15	83	16%	1%
16	85	9%	0%

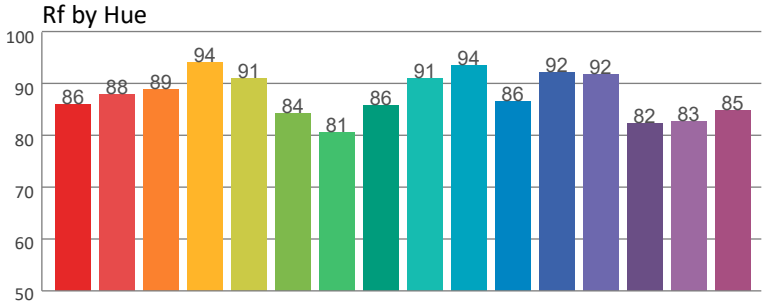


Color Vector Graphic

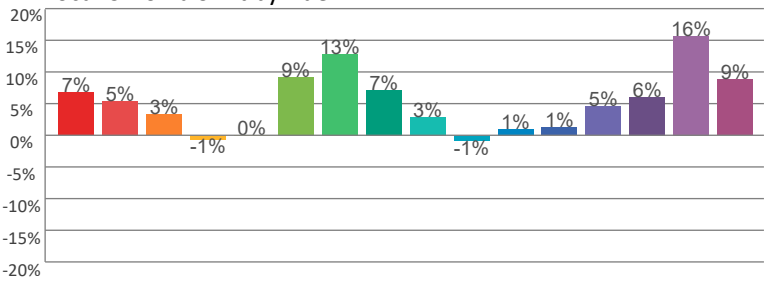


Color Distortion Graphic

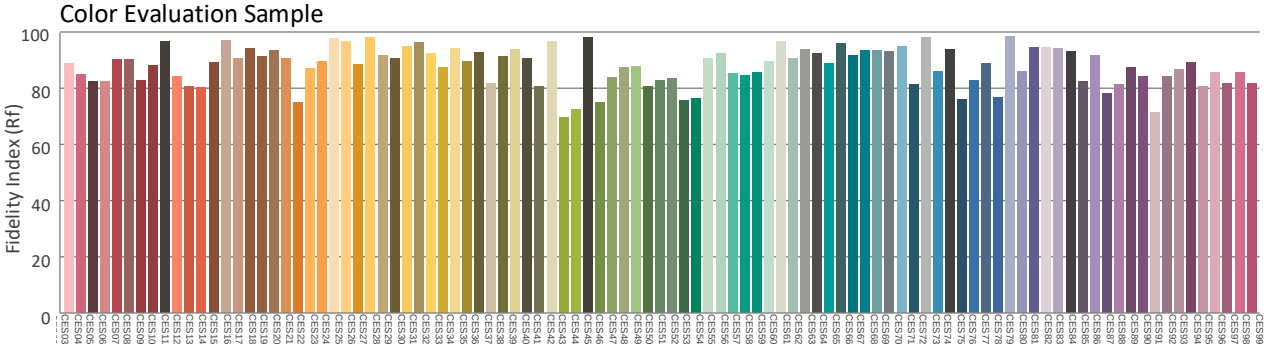
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-AC

Report Summary

Measurements

Fixture Output: 3007 lm
Fixture Peak: 5459 cd
Fixture Efficacy: 36 lm/W
Intensity @ 5m: 216 lux
Color Temperature: 6283 K
CRI: 85.1 CRI R9 Value: 48.5
CQS: 90.1
TLCI: 75
TM-30 Rf: 87.6
TM-30 Rg: 110.7
Beam Angle (50%): 31.7°
Field Angle (10%): 70.7°
Cutoff Angle (3%): 125.7°

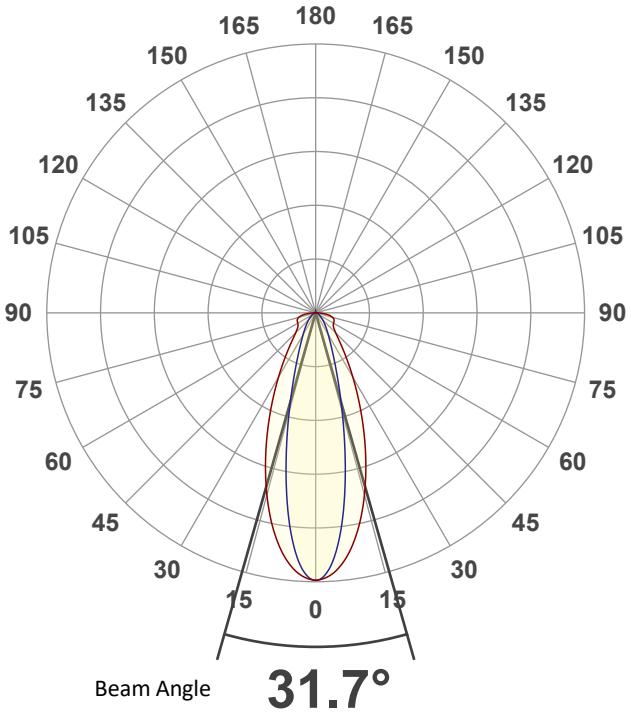
Conditions

AC Supply: 117 V, 60 Hz
Power: 84.25 W
Current: 0.721 A
Power Factor: 1.0

This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 4/14/2025 to LM-63-2002 Standards.

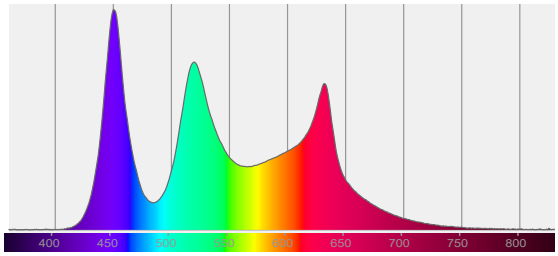
Overall Measurement

Angular Beam Distribution



Beam Angle 31.7°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.317
Y: 0.330

Light Quality

CRI: 85.1

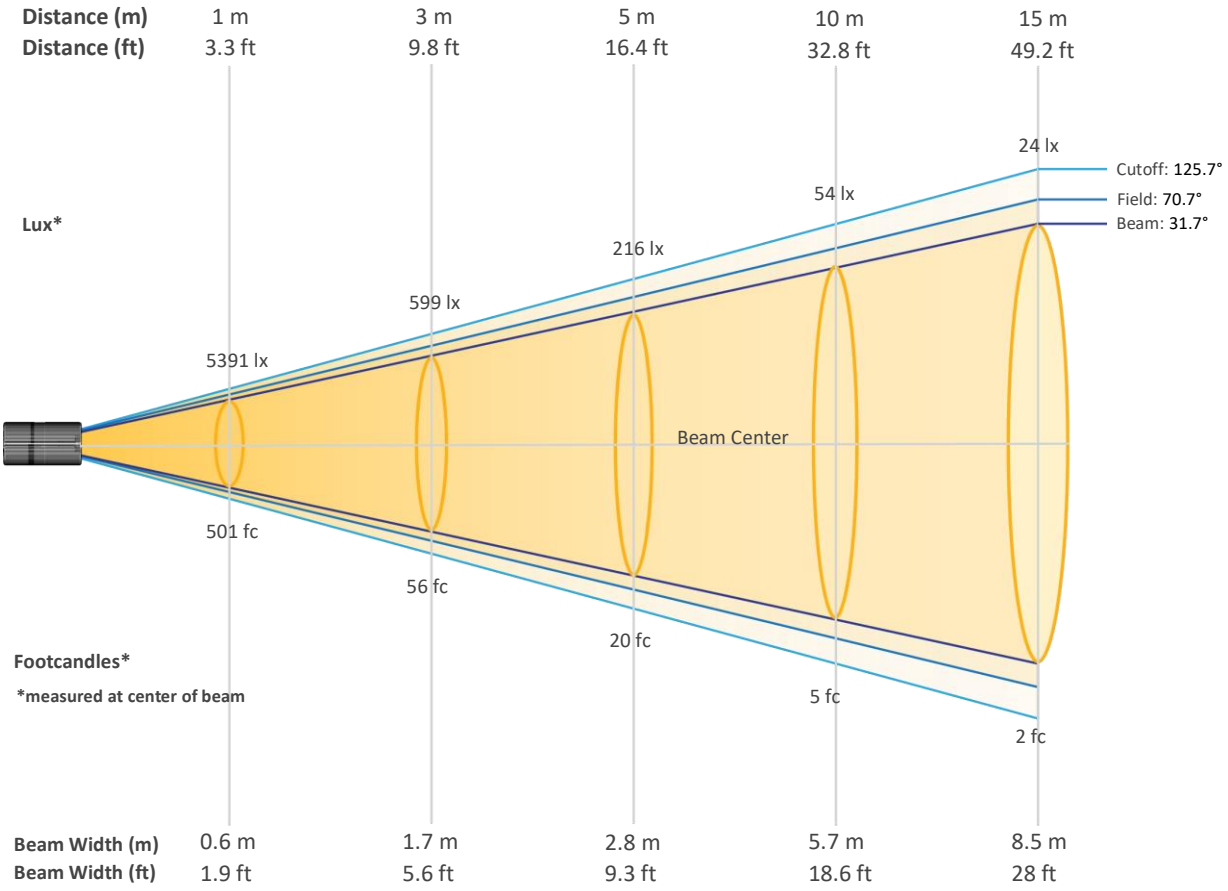
Color Temperature

6283 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-AC

Beam Details

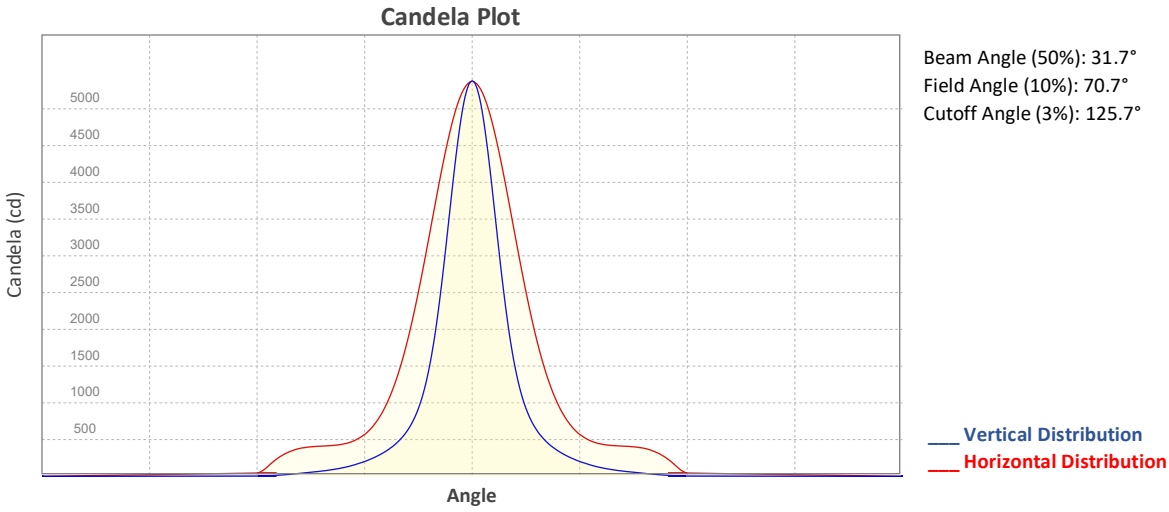


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	5391	1348	599	337	216	150	110	84	67	54
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	45	37	32	28	24	21	19	17	15	13
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	501	125	56	31	20	14	10	8	6	5
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	4	3	3	3	2	2	2	2	1	1

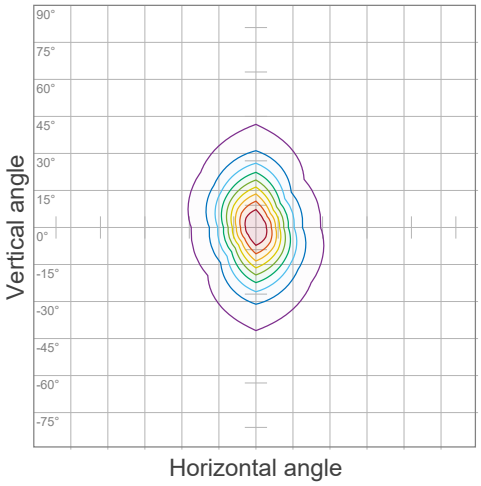
Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-AC



ISO Diagrams

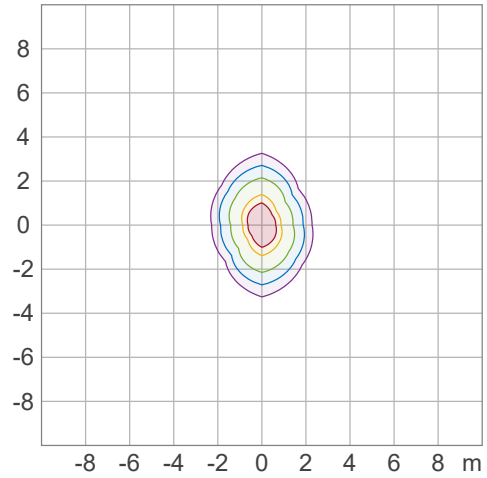
ISO Candela Diagram



90 %	4852.1 cd
80 %	4313.0 cd
70 %	3773.9 cd
60 %	3234.7 cd
50 %	2695.6 cd
40 %	2156.5 cd
30 %	1617.4 cd
20 %	1078.2 cd
10 %	539.1 cd

Peak intensity: 5391.2 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	299.5 lx
30.0 %	179.7 lx
10.0 %	59.9 lx
5.0 %	30.0 lx
3.0 %	18.0 lx

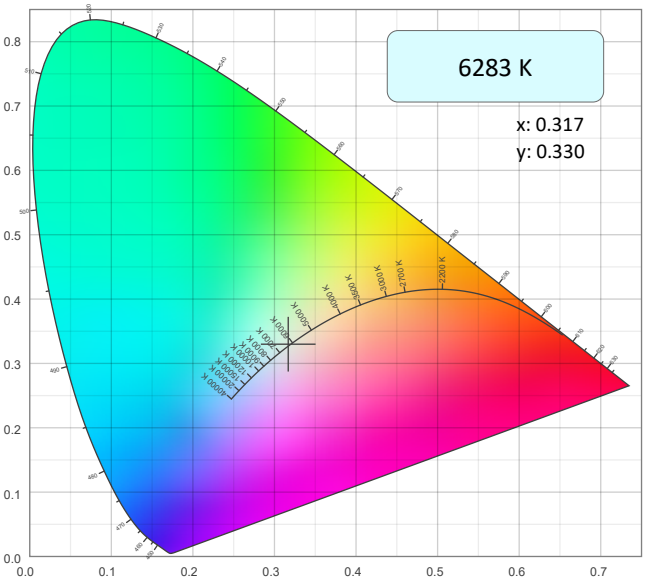
Peak illuminance: 599.0 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

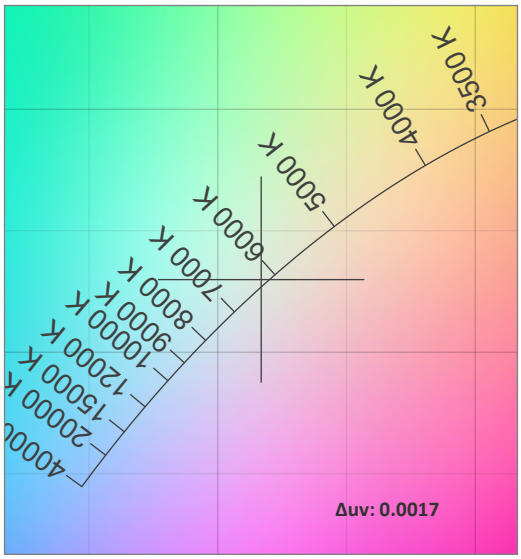
Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-AC

Chromaticity

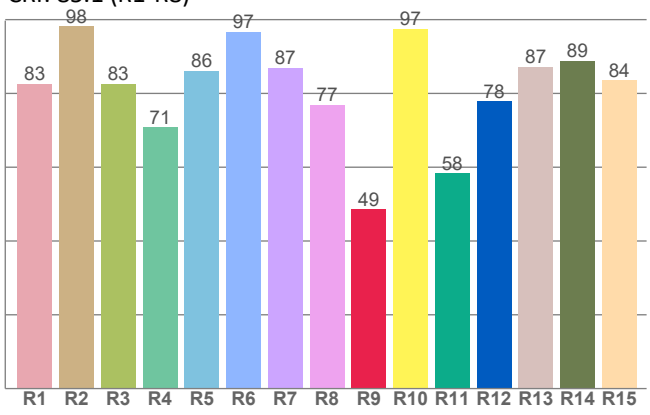
CIE 1931



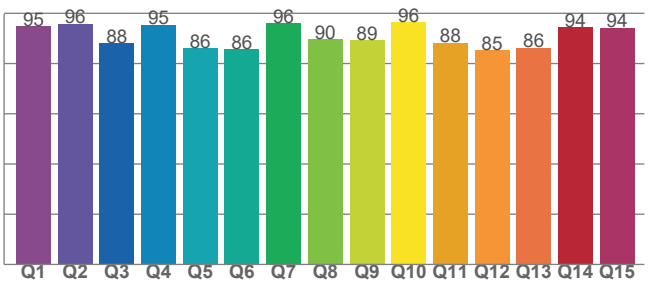
CIE 1931 - Zoom



CRI: 85.1 (R1-R8)



CQS: 90.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6283 K	0.317	0.330

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0017	0.330	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.1	48.5	90.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
75	87.6	110.7

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-AC

TM-30 Details

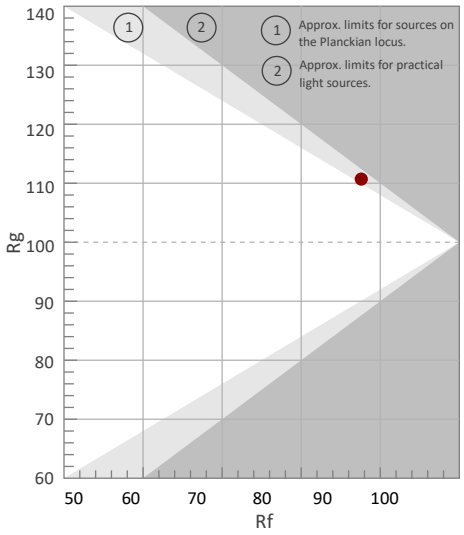
Rf 87.6

Fidelity Index (Rg)

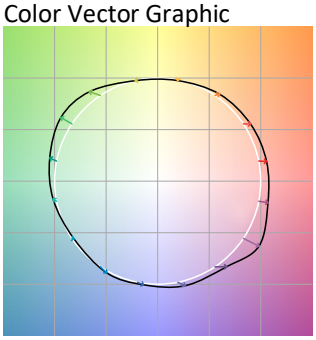
Rg 110.7

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	90	0%	2%
6	84	9%	7%
7	81	12%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-1%	1%
11	86	1%	8%
12	91	1%	6%
13	91	5%	6%
14	82	6%	10%
15	81	17%	2%
16	84	9%	0%

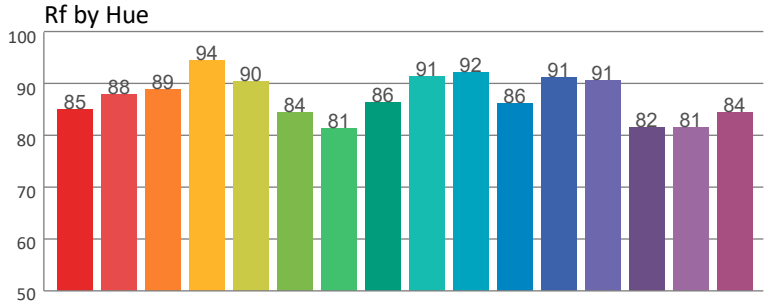


Color Vector Graphic

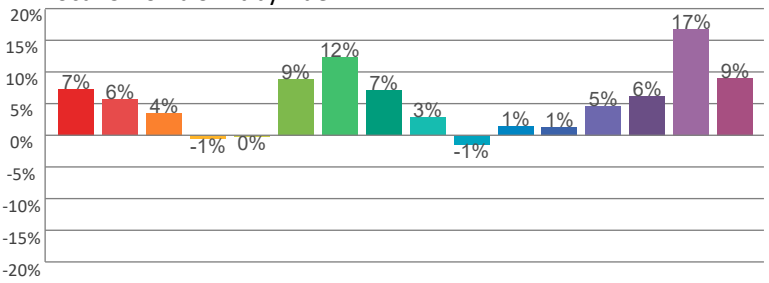


Color Distortion Graphic

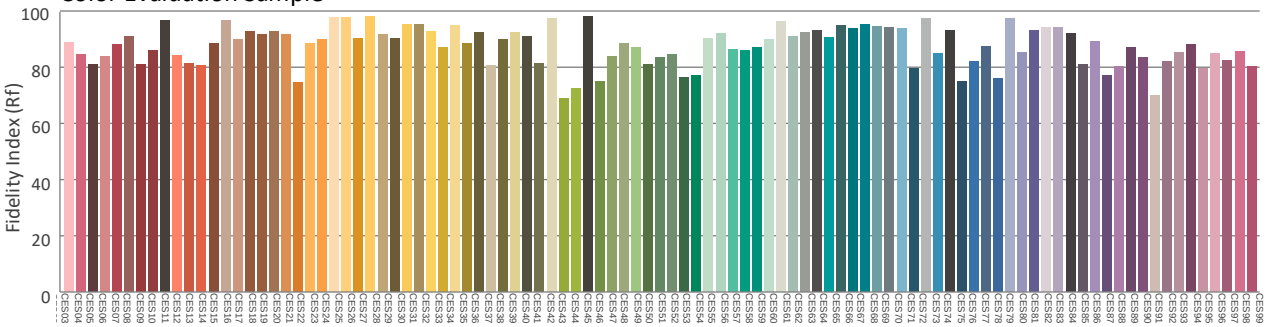
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-Off

Report Summary

Measurements

Fixture Output: 1691 lm
Fixture Peak: 3123 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 123 lux
Color Temperature: 6212 K
CRI: 85.1 CRI R9 Value: 50.1
CQS: 89.9
TLCI: 74
TM-30 Rf: 87.6
TM-30 Rg: 110.7
Beam Angle (50%): 31.8°
Field Angle (10%): 70.7°
Cutoff Angle (3%): 125.6°

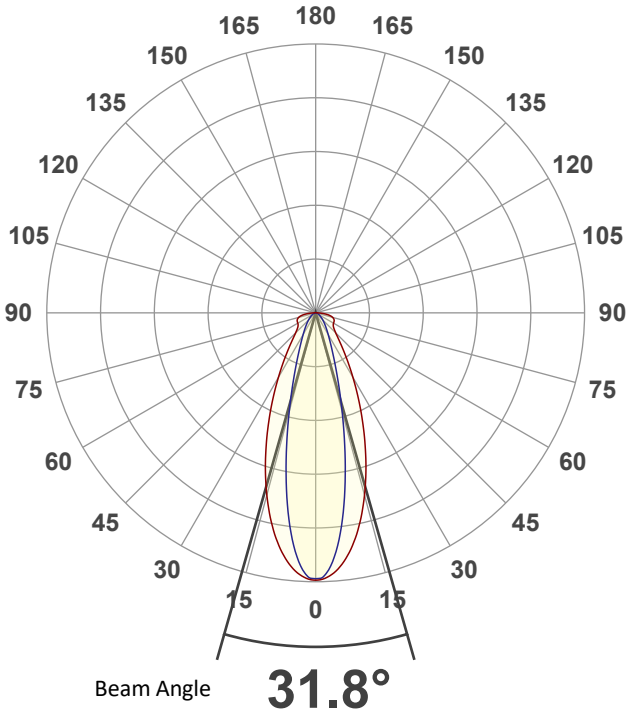
Conditions

AC Supply: 119 V, 60 Hz
Power: 0.0 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 Davie, FL on 4/14/2025 to LM-63-2002 Standards.

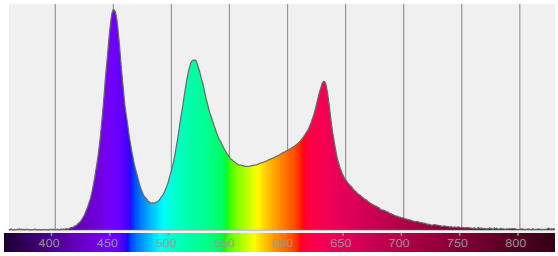
Overall Measurement

Angular Beam Distribution



Beam Angle 31.8°

Spectral Distribution



Tested Color (CIE 1931):
X: 0.318
Y: 0.332

Light Quality

CRI: 85.1

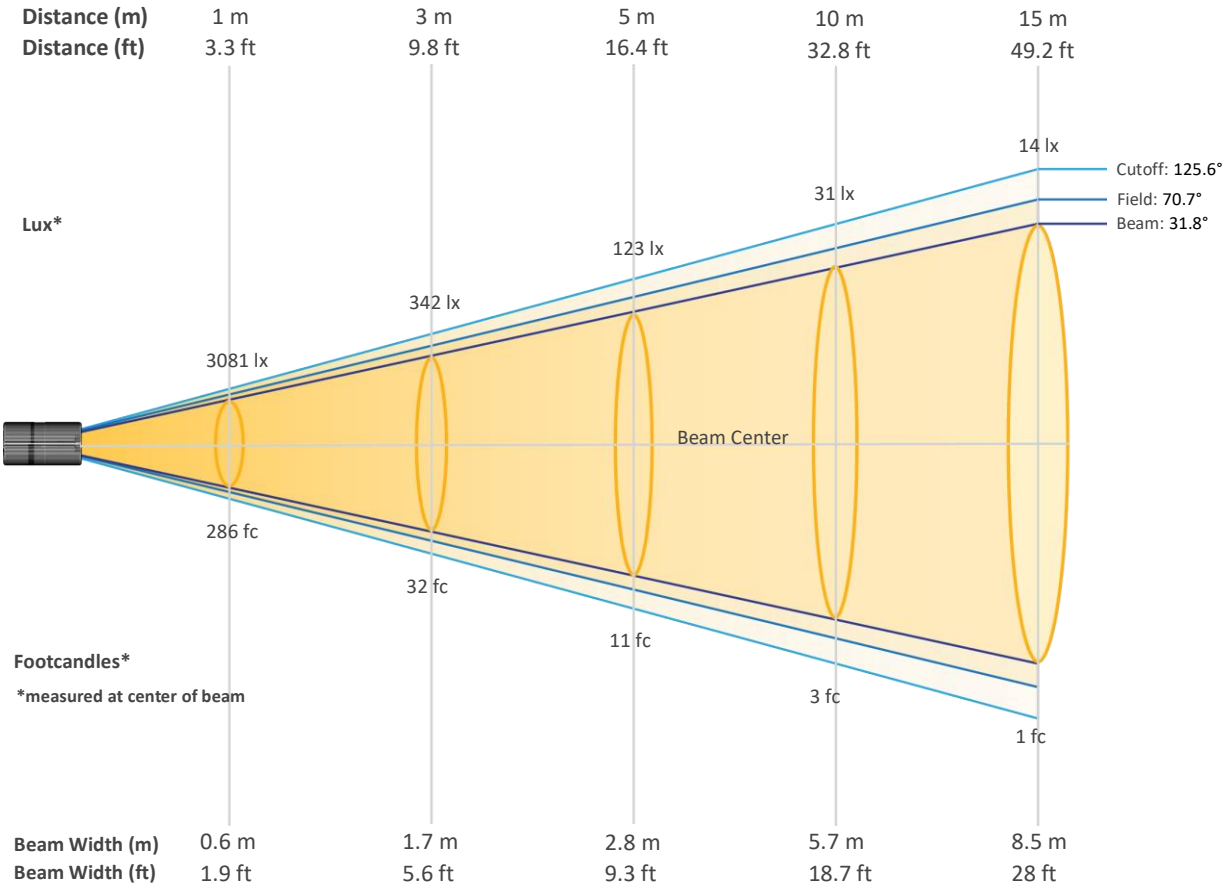
Color Temperature

6212 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-Off

Beam Details

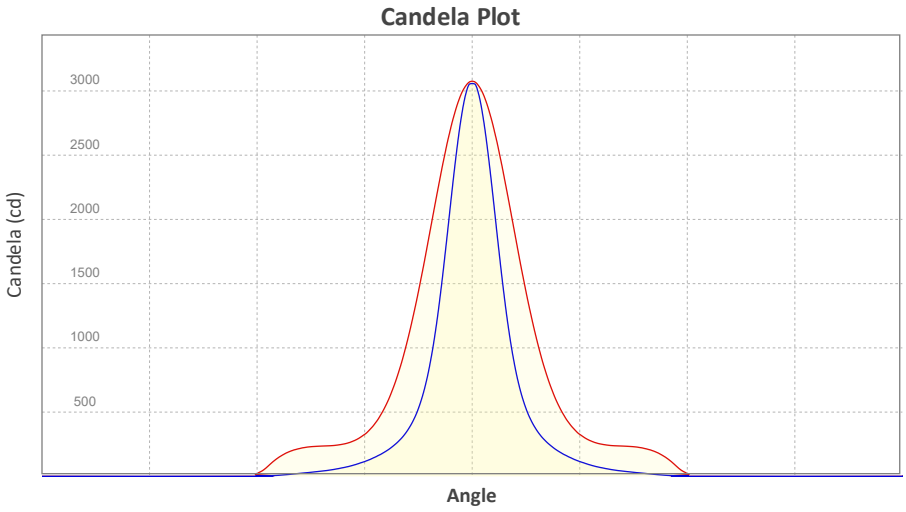


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3081	770	342	193	123	86	63	48	38	31
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	25	21	18	16	14	12	11	10	9	8
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	286	72	32	18	11	8	6	4	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	2	2	1	1	1	1	1	1	1

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-Off

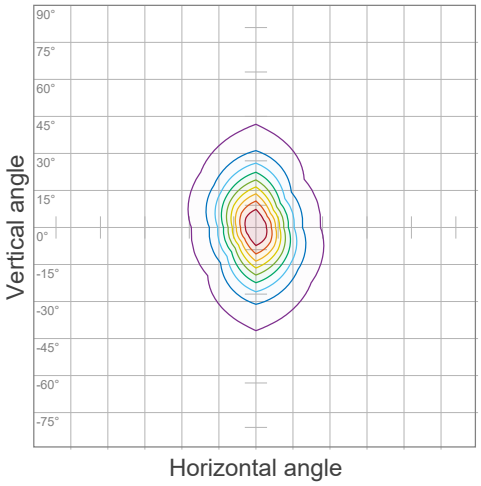


Beam Angle (50%): 31.8°
Field Angle (10%): 70.7°
Cutoff Angle (3%): 125.6°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

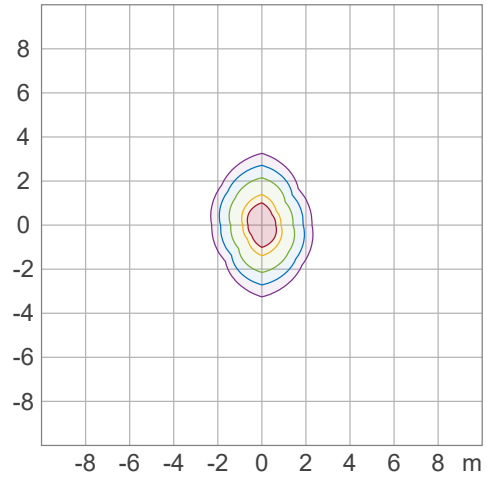
ISO Candela Diagram



90 %	2773.2 cd
80 %	2465.0 cd
70 %	2156.9 cd
60 %	1848.8 cd
50 %	1540.7 cd
40 %	1232.5 cd
30 %	924.4 cd
20 %	616.3 cd
10 %	308.1 cd

Peak intensity: 3081.3 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	171.2 lx
30.0 %	102.7 lx
10.0 %	34.2 lx
5.0 %	17.1 lx
3.0 %	10.3 lx

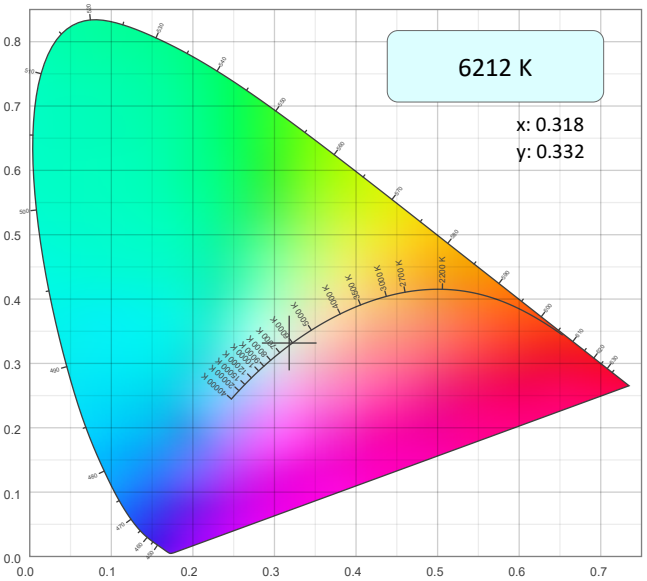
Peak illuminance: 342.4 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

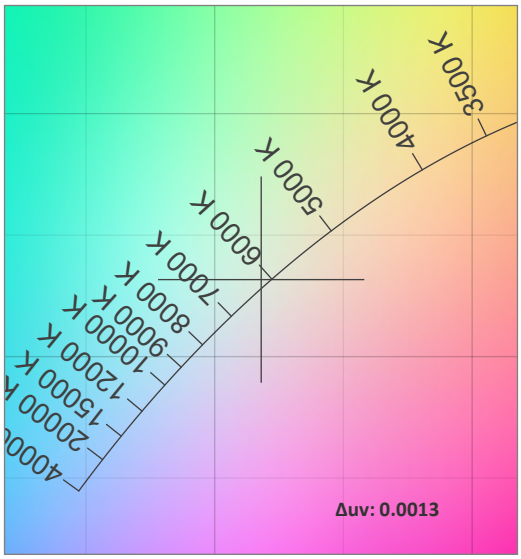
Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-Off

Chromaticity

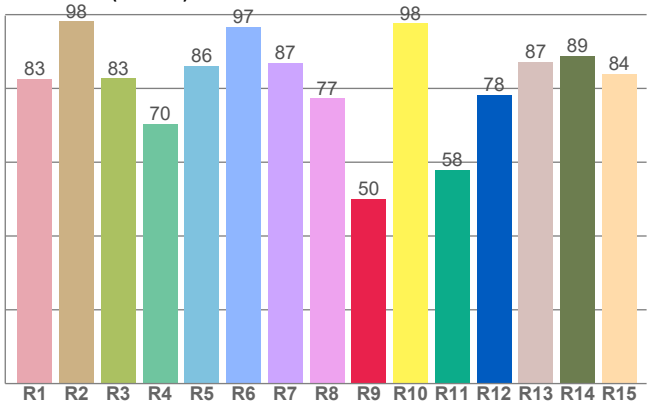
CIE 1931



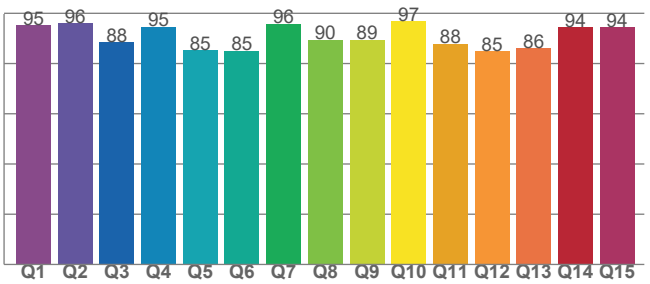
CIE 1931 - Zoom



CRI: 85.1 (R1-R8)



CQS: 89.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6212 K	0.318	0.332

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0013	0.332	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.1	50.1	89.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	87.6	110.7

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/60X10 Filter - Full Power-Off

TM-30 Details

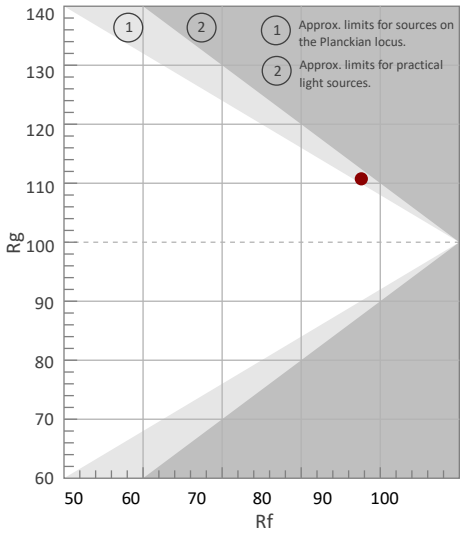
Rf 87.6

Fidelity Index (Rg)

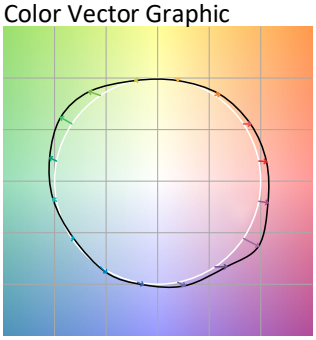
Rg 110.7

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	3%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-1%	1%
11	87	1%	8%
12	91	1%	6%
13	91	5%	6%
14	82	6%	10%
15	82	16%	2%
16	84	9%	0%

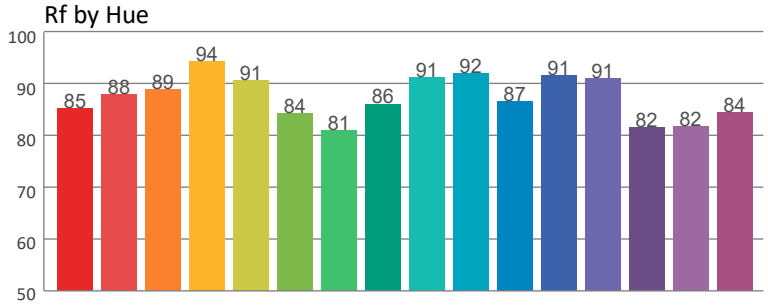


Color Vector Graphic

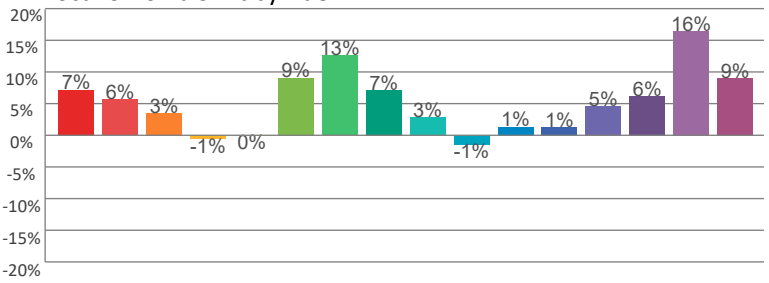


Color Distortion Graphic

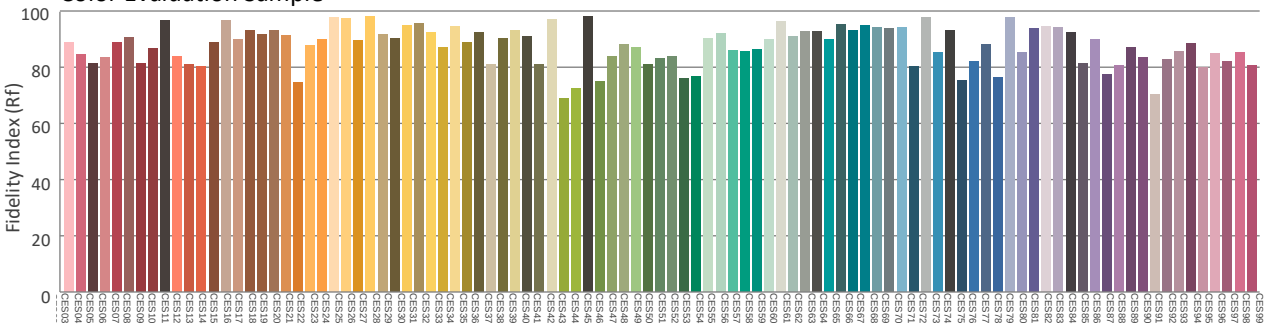
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-5hrs

Report Summary

Measurements

Fixture Output: 2071 lm
Fixture Peak: 8548 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 341 lux
Color Temperature: 6216 K
CRI: 85.0 CRI R9 Value: 49.0
CQS: 90.0
TLCI: 74
TM-30 Rf: 87.5
TM-30 Rg: 110.8
Beam Angle (50%): 21.7°
Field Angle (10%): 46.1°
Cutoff Angle (3%): 78.6°

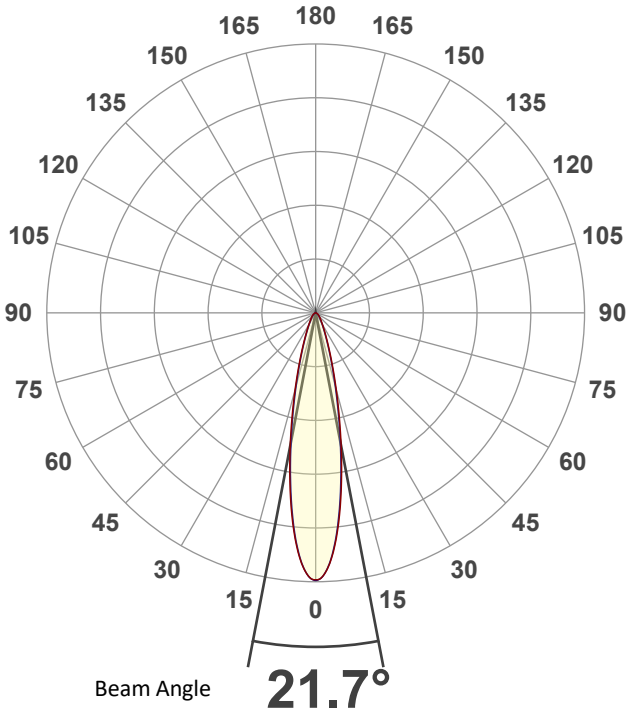
Conditions

AC Supply: 119 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

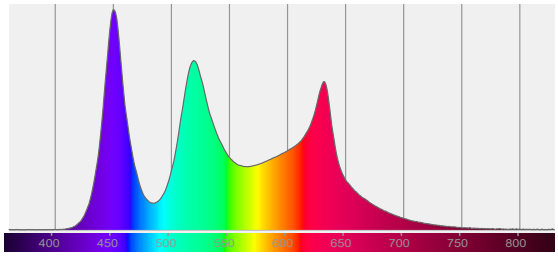
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 4/14/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.318
Y: 0.331

Light Quality

CRI: 85.0

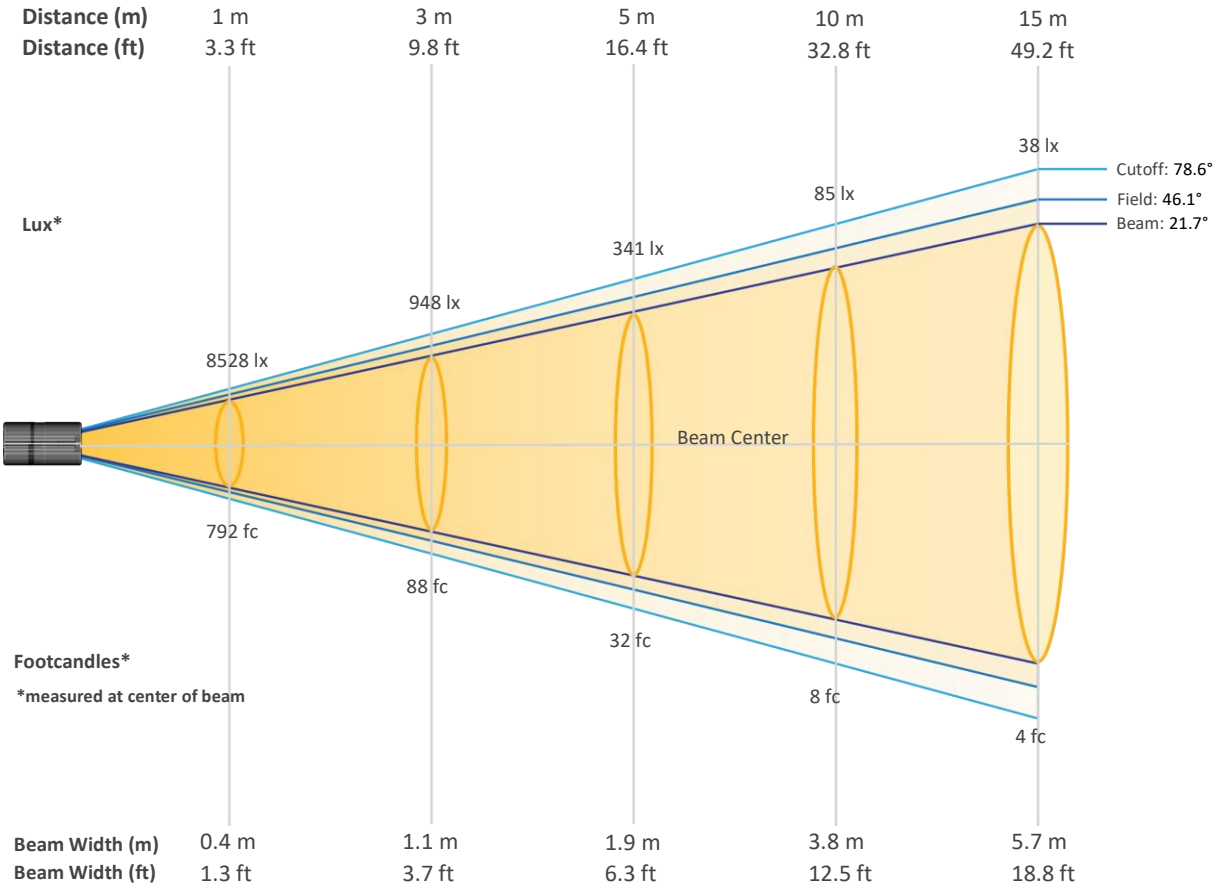
Color Temperature

6216 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-5hrs

Beam Details



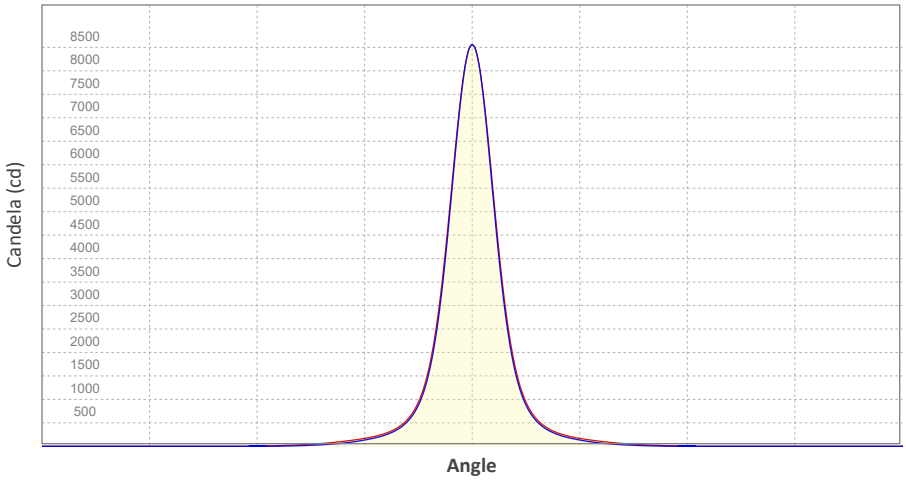
Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	8528	2132	948	533	341	237	174	133	105	85
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	70	59	50	44	38	33	30	26	24	21
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	792	198	88	50	32	22	16	12	10	8
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	7	6	5	4	4	3	3	2	2	2

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-5hrs

Candela Plot

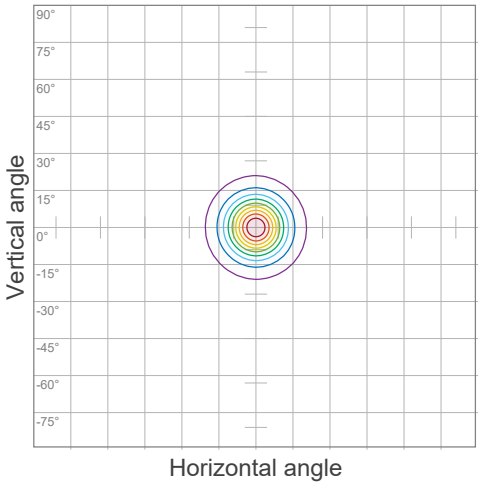


Beam Angle (50%): 21.7°
Field Angle (10%): 46.1°
Cutoff Angle (3%): 78.6°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

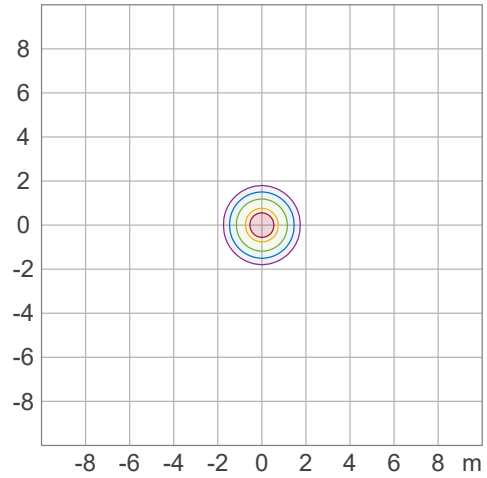
ISO Candela Diagram



90 %	7674.9 cd
80 %	6822.1 cd
70 %	5969.3 cd
60 %	5116.6 cd
50 %	4263.8 cd
40 %	3411.1 cd
30 %	2558.3 cd
20 %	1705.5 cd
10 %	852.8 cd

Peak intensity: 8527.6 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	473.8 lx
30.0 %	284.3 lx
10.0 %	94.8 lx
5.0 %	47.4 lx
3.0 %	28.4 lx

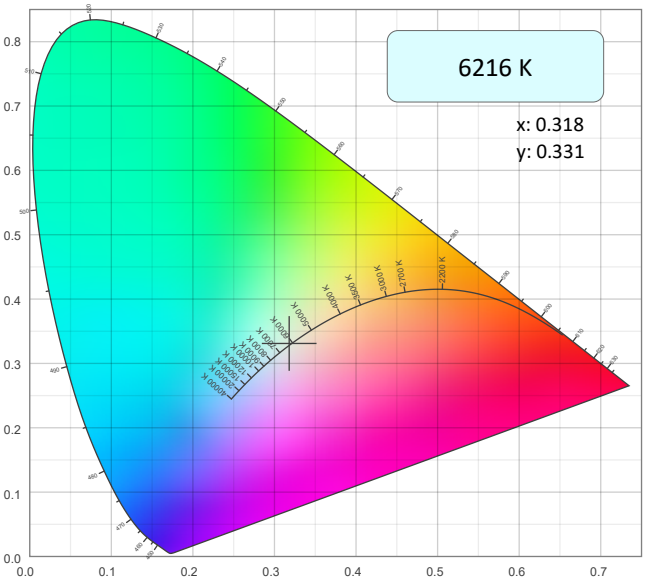
Peak illuminance: 947.5 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

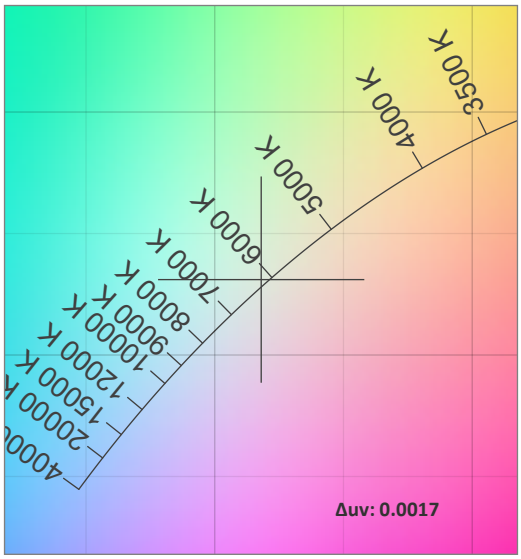
Well Batten 14: Standard Optics-w/15deg Filter - Full Power-5hrs

Chromaticity

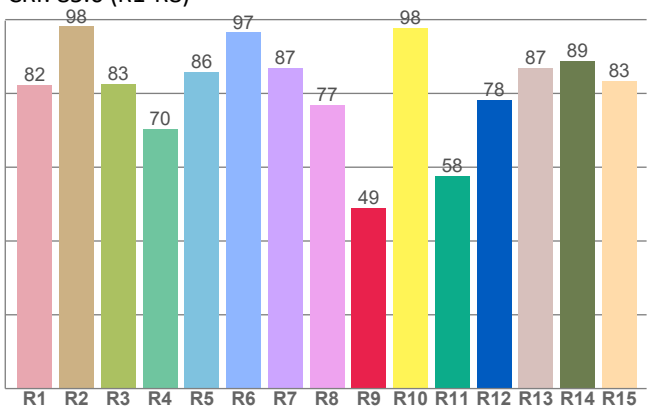
CIE 1931



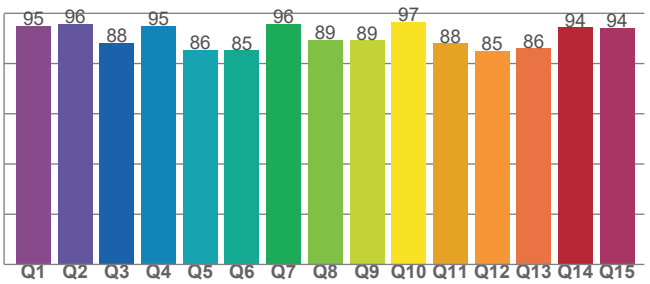
CIE 1931 - Zoom



CRI: 85.0 (R1-R8)



CQS: 90.0



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6216 K	0.318	0.331

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0017	0.331	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.0	49.0	90.0

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	87.5	110.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-5hrs

TM-30 Details

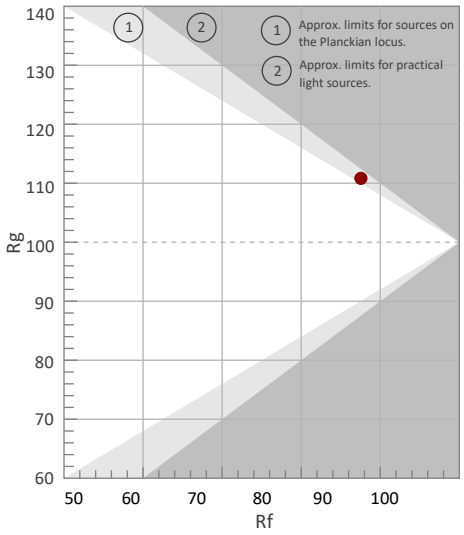
Rf 87.5

Fidelity Index (Rg)

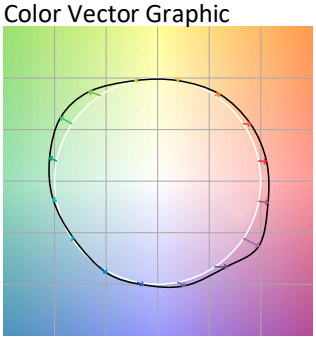
Rg 110.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	90	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-1%	1%
11	86	1%	8%
12	91	1%	6%
13	91	5%	6%
14	81	6%	10%
15	82	17%	2%
16	84	9%	0%

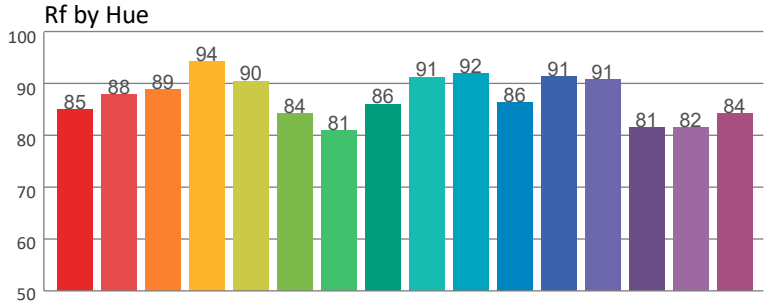


Color Vector Graphic

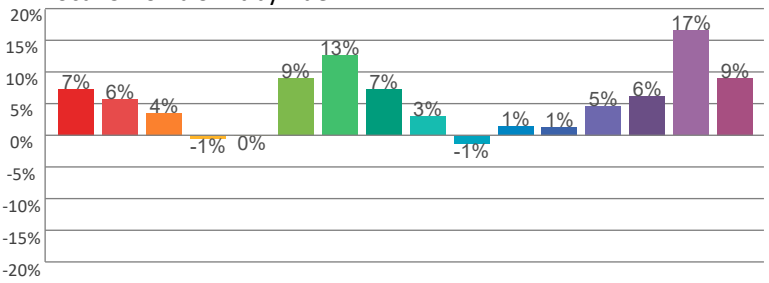


Color Distortion Graphic

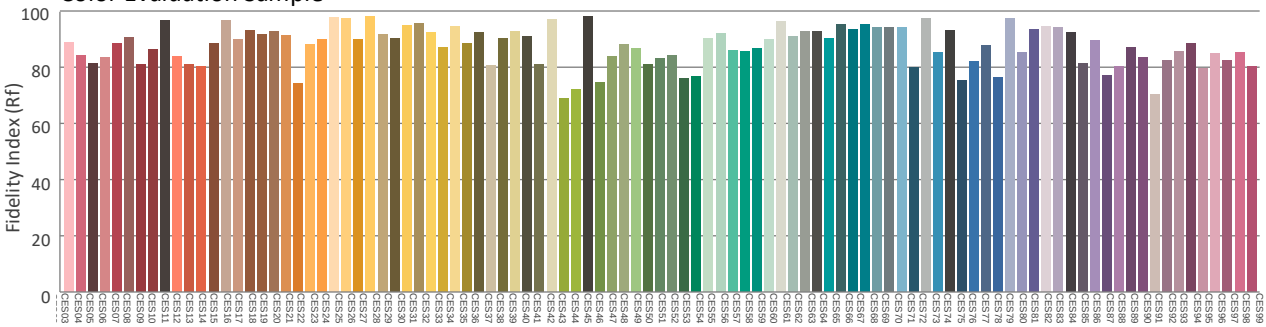
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-8hrs

Report Summary

Measurements

Fixture Output: 1291 lm
Fixture Peak: 5304 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 212 lux
Color Temperature: 6177 K
CRI: 85.0 CRI R9 Value: 50.1
CQS: 89.9
TLCI: 73
TM-30 Rf: 87.6
TM-30 Rg: 110.8
Beam Angle (50%): 21.7°
Field Angle (10%): 46.1°
Cutoff Angle (3%): 78.7°

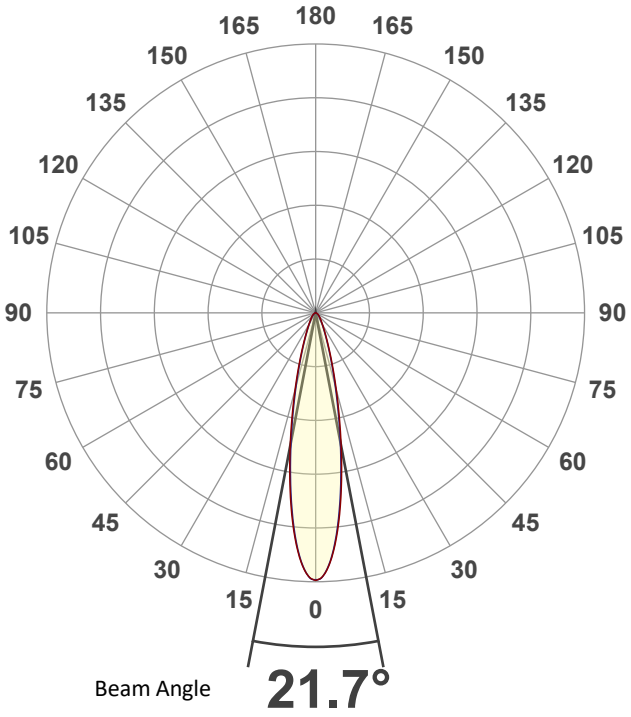
Conditions

AC Supply: 119 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

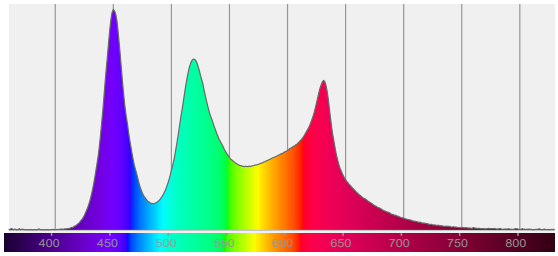
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 4/14/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.319
Y: 0.332

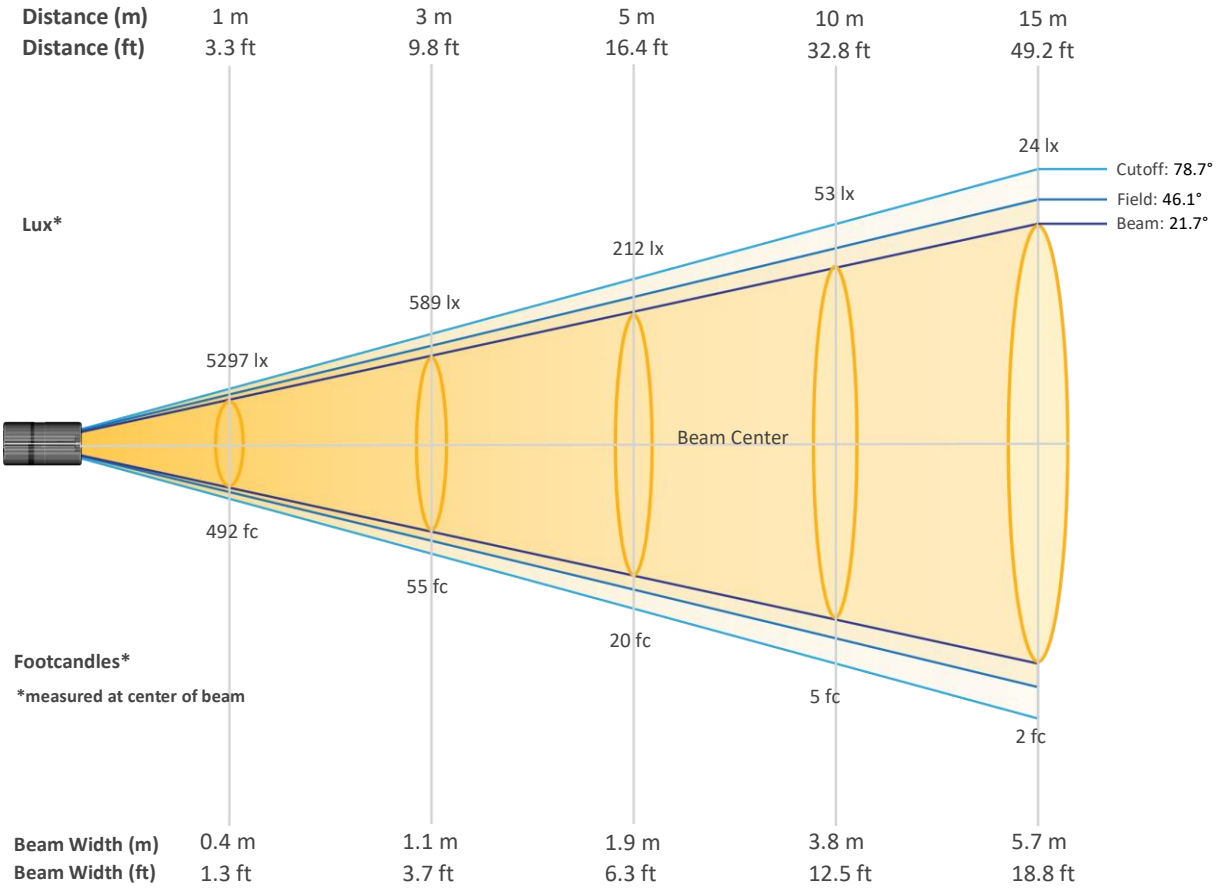
Light Quality

Color Temperature

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-8hrs

Beam Details

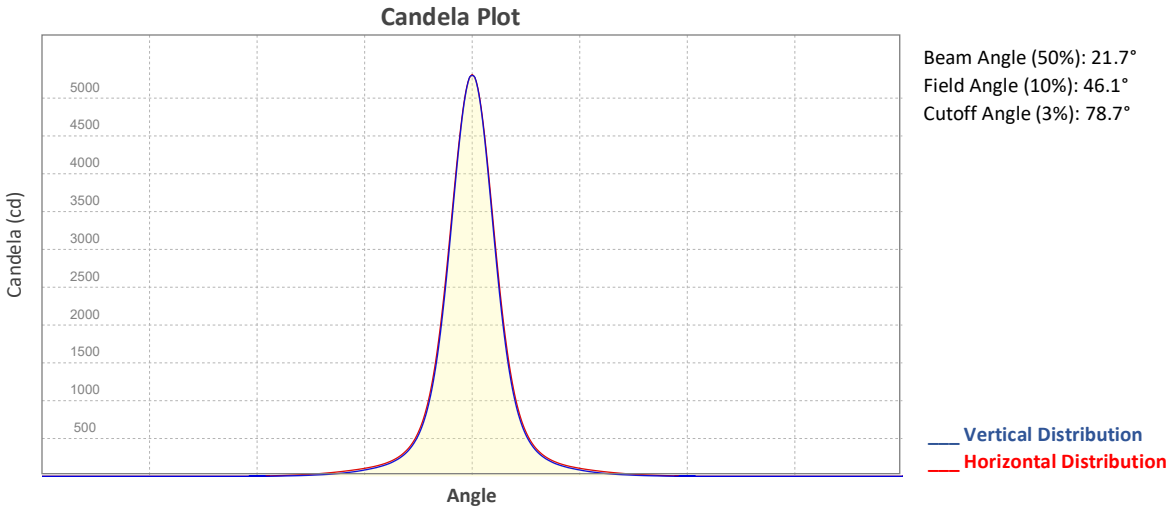


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	5297	1324	589	331	212	147	108	83	65	53
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	44	37	31	27	24	21	18	16	15	13
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	492	123	55	31	20	14	10	8	6	5
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	4	3	3	3	2	2	2	2	1	1

Photometric & Chromaticity Report

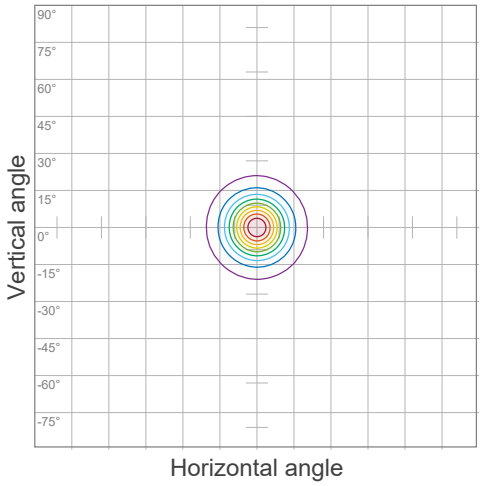
Well Batten 14: Standard Optics-w/15deg Filter - Full Power-8hrs



Beam Angle (50%): 21.7°
Field Angle (10%): 46.1°
Cutoff Angle (3%): 78.7°

ISO Diagrams

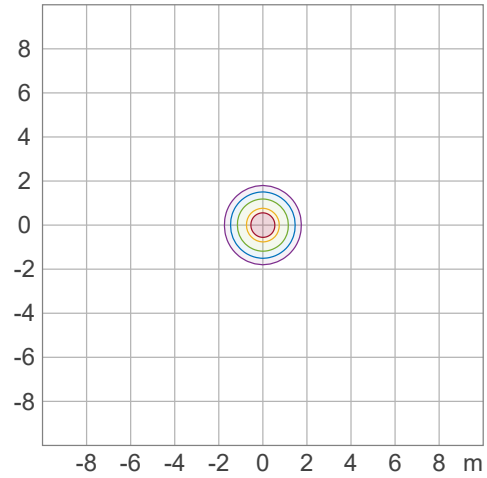
ISO Candela Diagram



90 %	4767.6 cd
80 %	4237.8 cd
70 %	3708.1 cd
60 %	3178.4 cd
50 %	2648.7 cd
40 %	2118.9 cd
30 %	1589.2 cd
20 %	1059.5 cd
10 %	529.7 cd

Peak intensity: 5297.3 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	294.3 lx
30.0 %	176.6 lx
10.0 %	58.9 lx
5.0 %	29.4 lx
3.0 %	17.7 lx

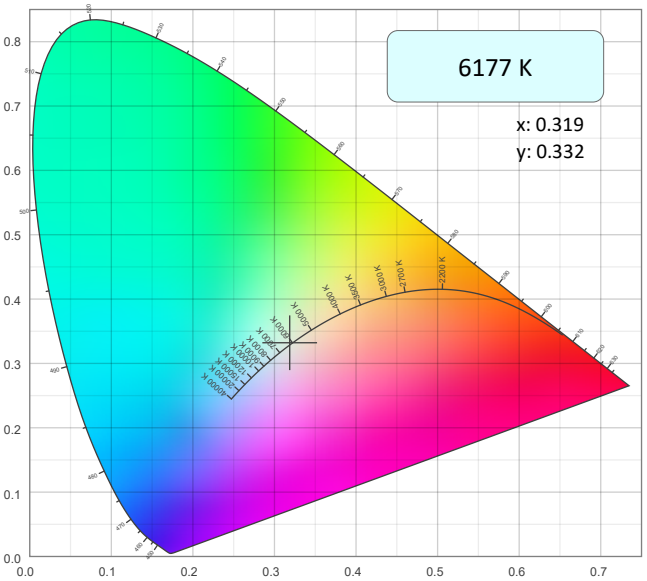
Peak illuminance: 588.6 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

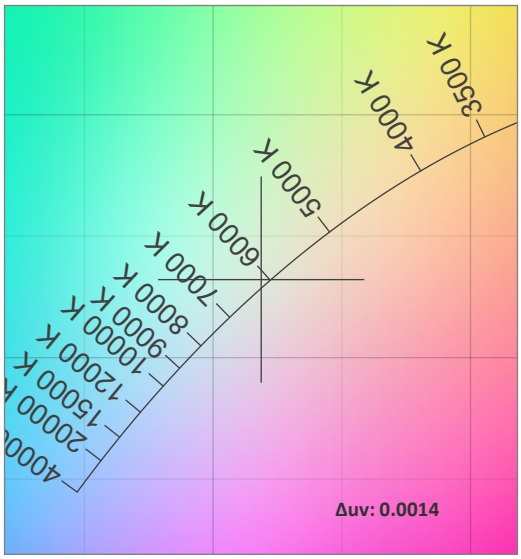
Well Batten 14: Standard Optics-w/15deg Filter - Full Power-8hrs

Chromaticity

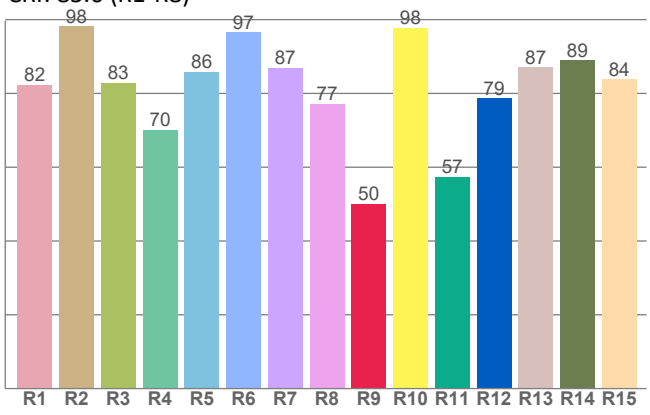
CIE 1931



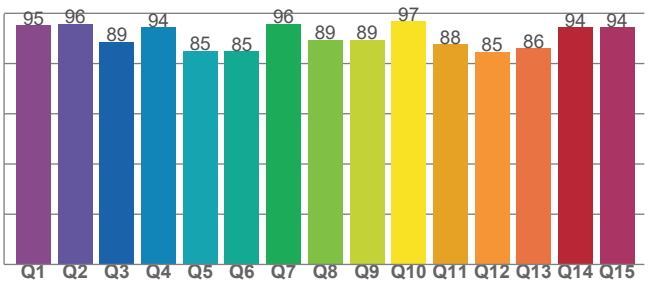
CIE 1931 - Zoom



CRI: 85.0 (R1-R8)



CQS: 89.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6177 K	0.319	0.332

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0014	0.332	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.0	50.1	89.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
73	87.6	110.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-8hrs

TM-30 Details

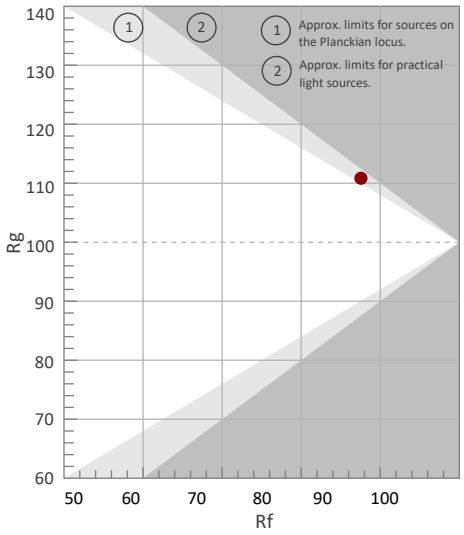
Rf 87.6

Fidelity Index (Rg)

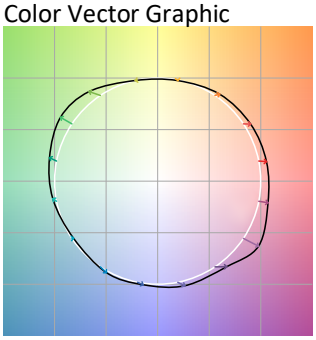
Rg 110.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-1%	1%
11	87	1%	8%
12	92	1%	6%
13	91	5%	6%
14	82	6%	10%
15	82	16%	2%
16	84	9%	0%

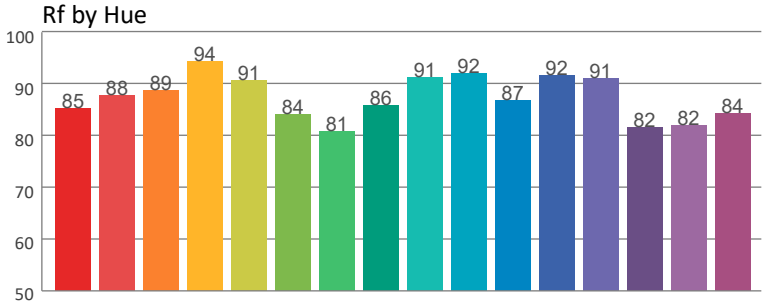


Color Vector Graphic

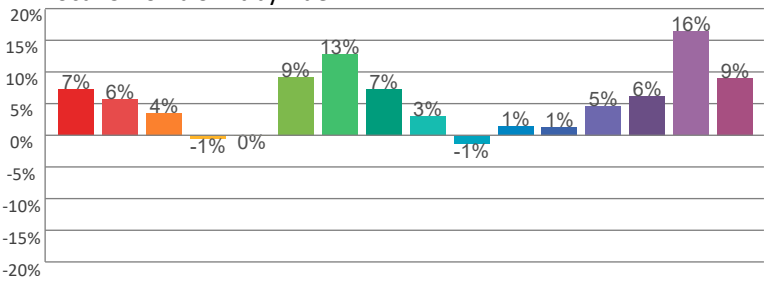


Color Distortion Graphic

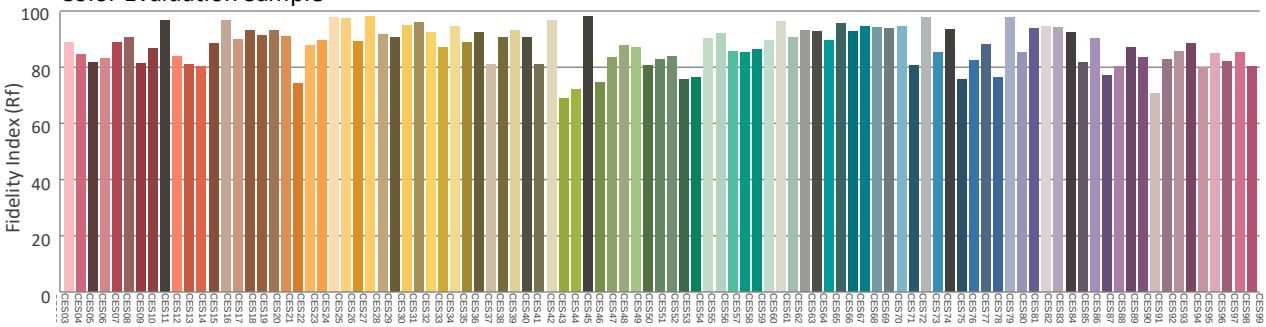
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-12hrs

Report Summary

Measurements

Fixture Output: 799 lm
Fixture Peak: 3290 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 131 lux
Color Temperature: 6150 K
CRI: 85.2 CRI R9 Value: 51.8
CQS: 89.8
TLCI: 72
TM-30 Rf: 87.6
TM-30 Rg: 110.9
Beam Angle (50%): 21.7°
Field Angle (10%): 46.1°
Cutoff Angle (3%): 78.6°

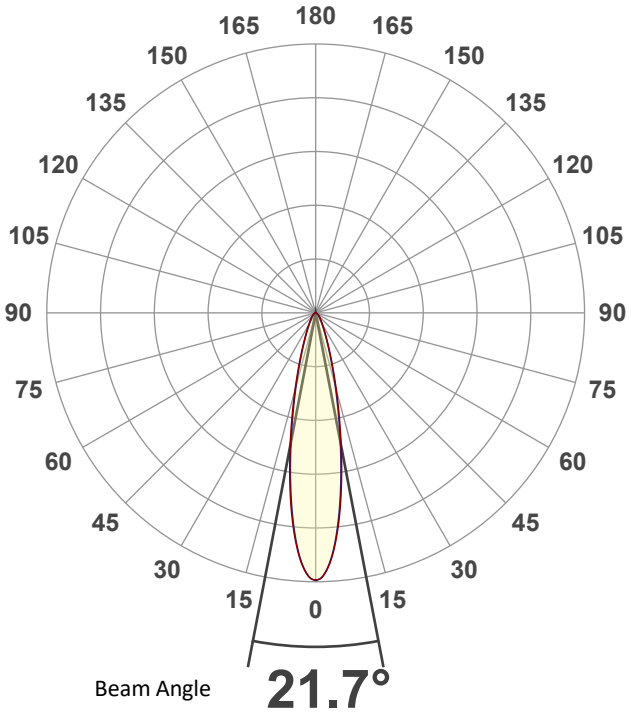
Conditions

AC Supply: 119 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

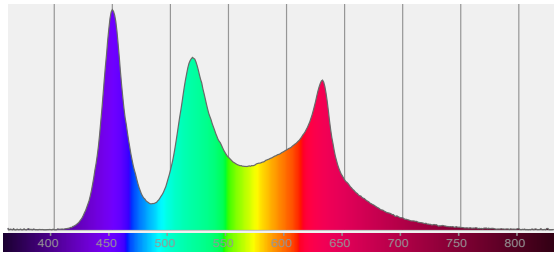
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 4/14/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.319
Y: 0.333

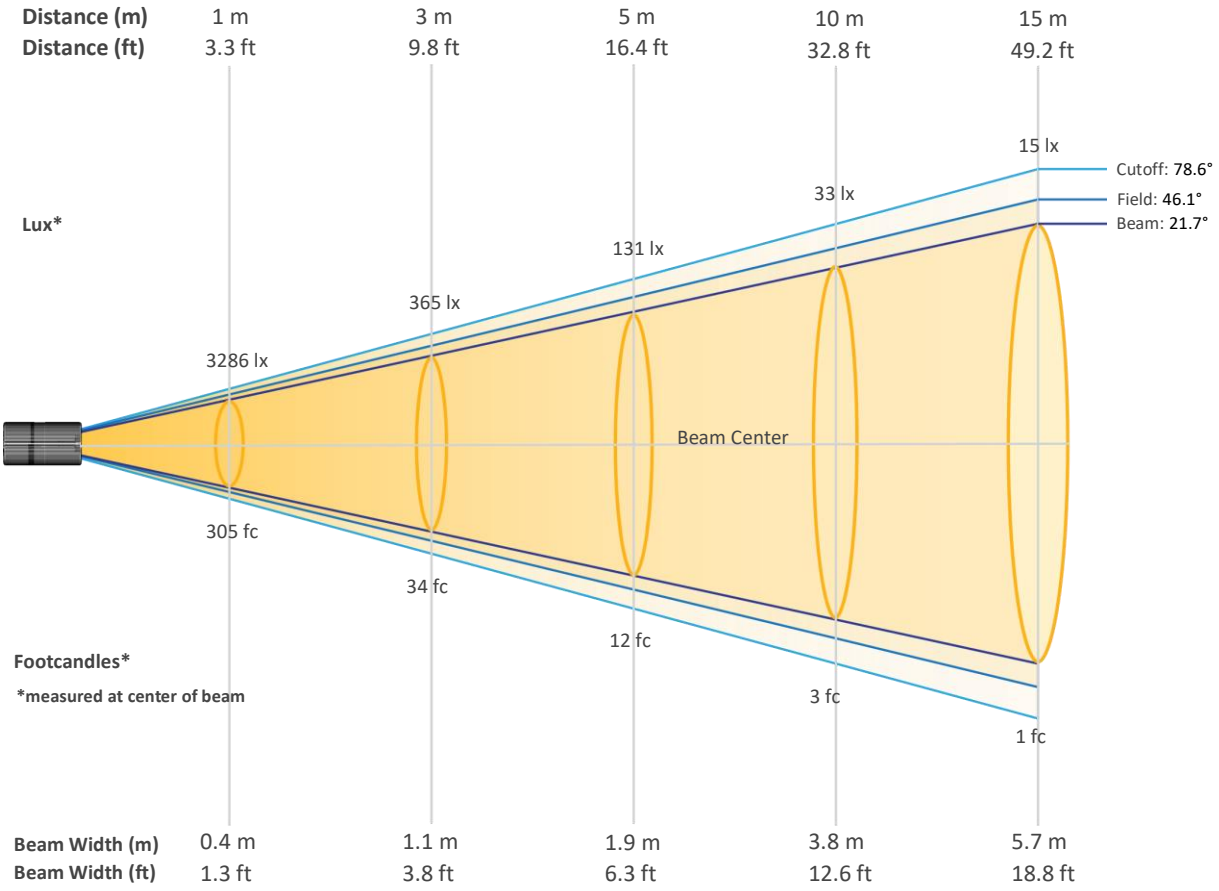
Light Quality

Color Temperature

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-12hrs

Beam Details

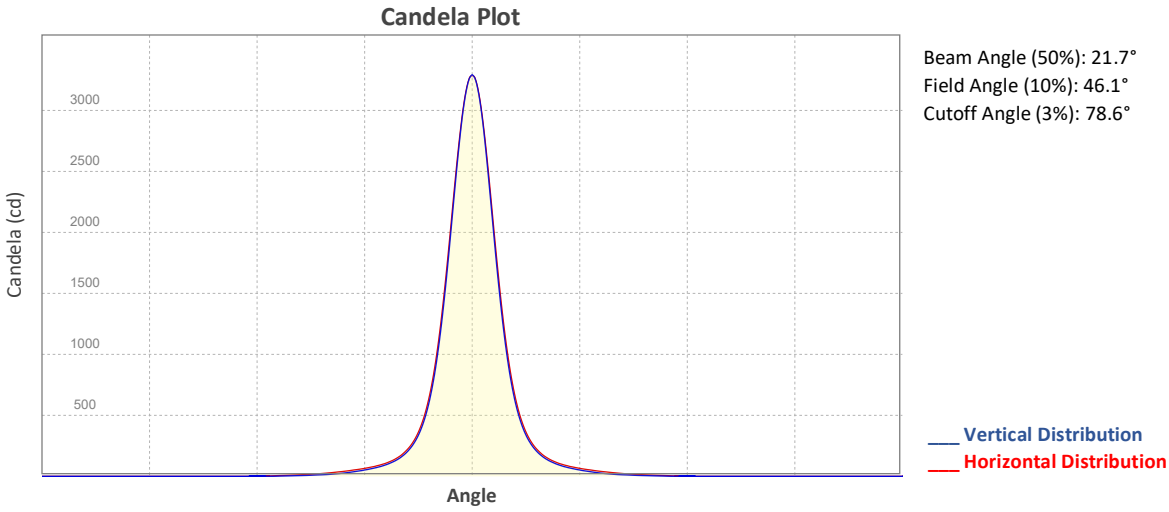


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	3286	821	365	205	131	91	67	51	41	33
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	27	23	19	17	15	13	11	10	9	8
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	305	76	34	19	12	8	6	5	4	3
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	3	2	2	2	1	1	1	1	1	1

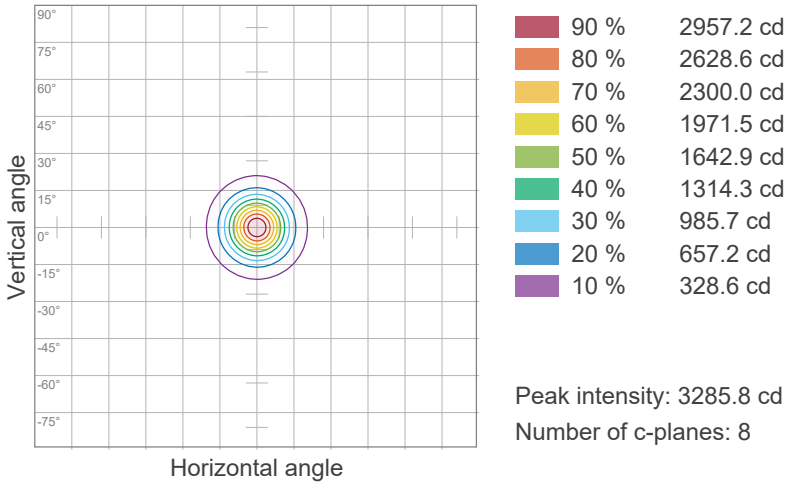
Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-12hrs

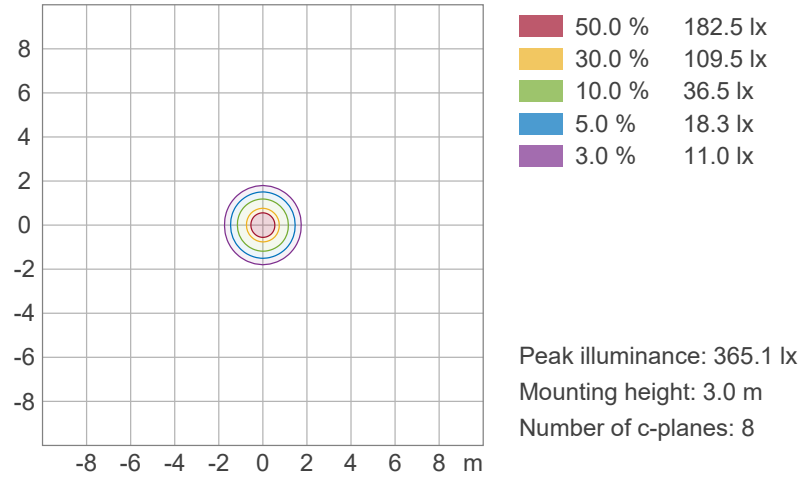


ISO Diagrams

ISO Candela Diagram



ISO Lux Diagram

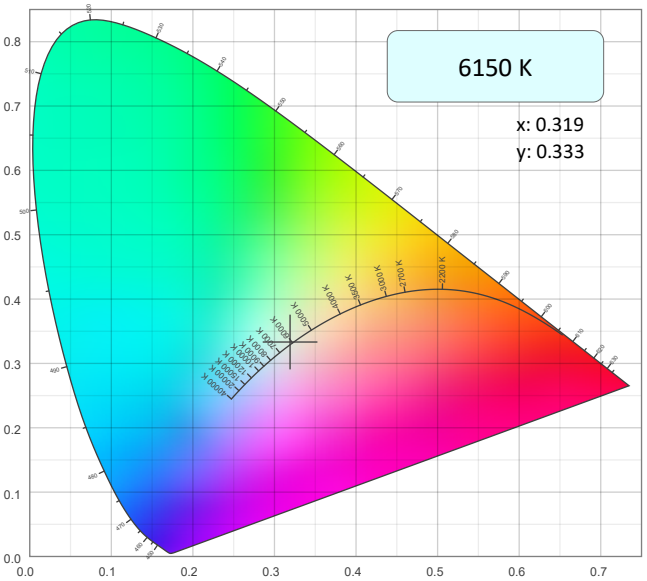


Photometric & Chromaticity Report

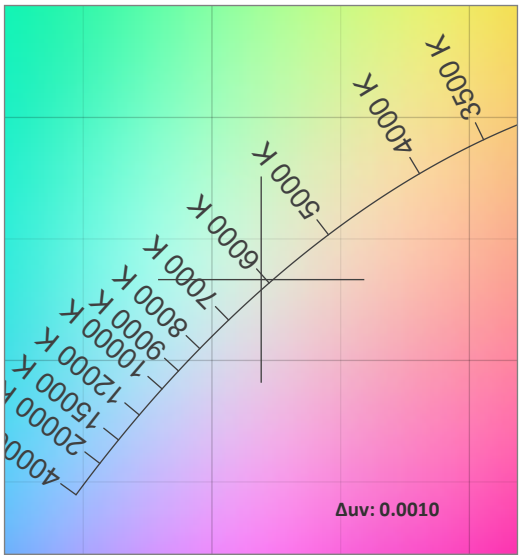
Well Batten 14: Standard Optics-w/15deg Filter - Full Power-12hrs

Chromaticity

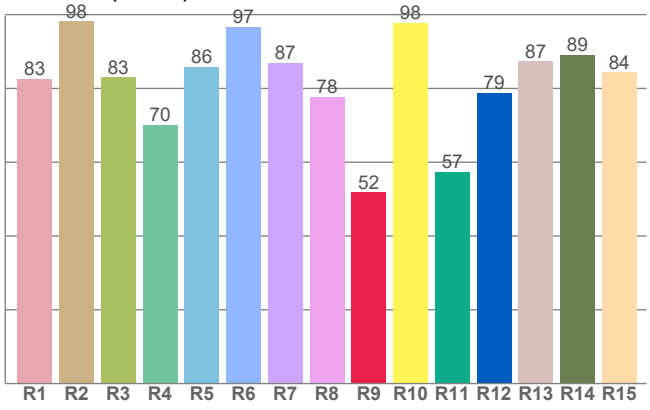
CIE 1931



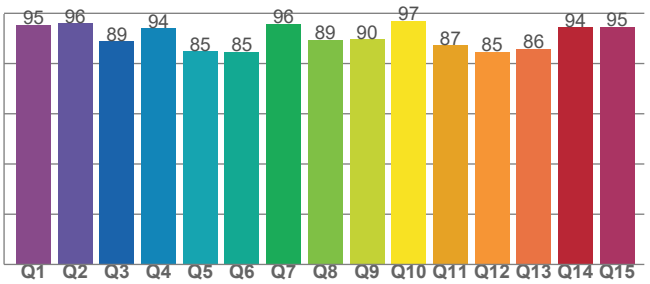
CIE 1931 - Zoom



CRI: 85.2 (R1-R8)



CQS: 89.8



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6150 K	0.319	0.333

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0010	0.333	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.2	51.8	89.8

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
72	87.6	110.9

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-12hrs

TM-30 Details

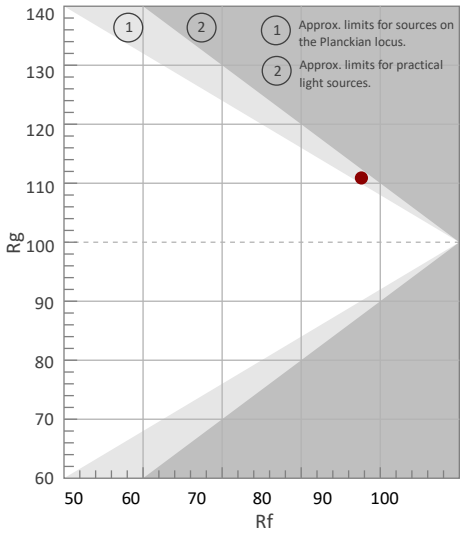
Rf 87.6

Fidelity Index (Rg)

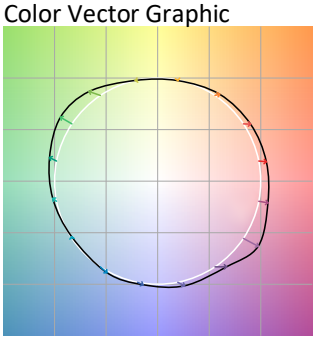
Rg 110.9

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	3%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	94	-1%	-2%
11	86	1%	8%
12	92	1%	6%
13	91	5%	6%
14	82	6%	9%
15	82	16%	2%
16	84	9%	0%

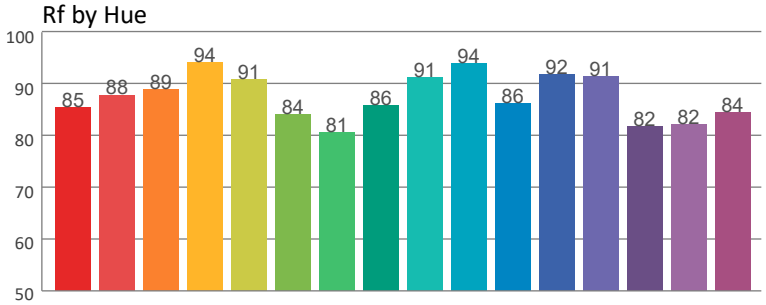


Color Vector Graphic

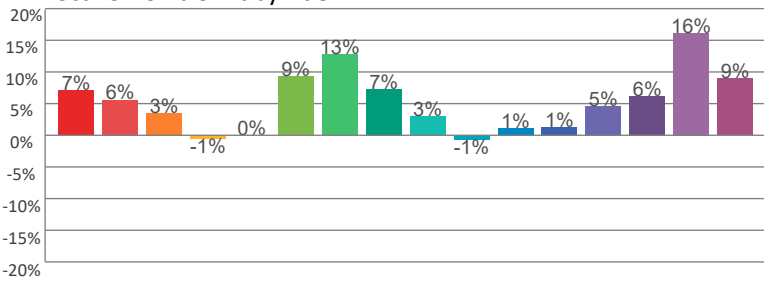


Color Distortion Graphic

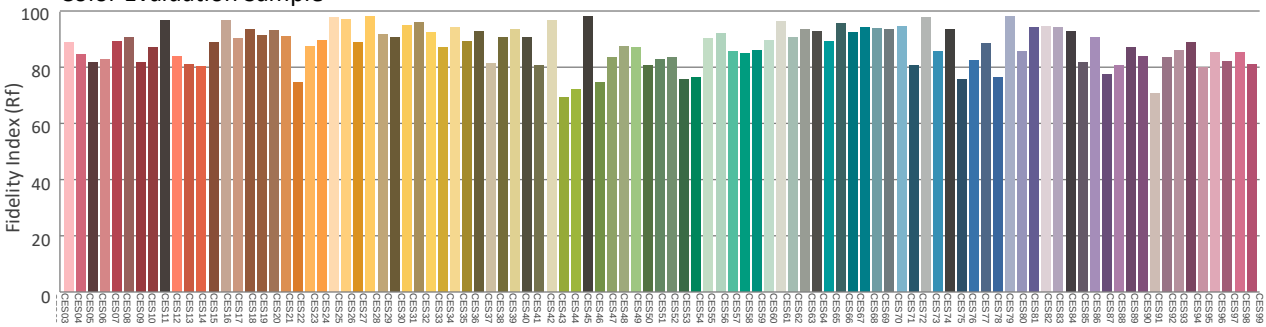
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-18hrs

Report Summary

Measurements

Fixture Output: 488 lm
Fixture Peak: 2003 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 80 lux
Color Temperature: 6089 K
CRI: 85.6 CRI R9 Value: 55.2
CQS: 89.7
TLCI: 72
TM-30 Rf: 87.8
TM-30 Rg: 110.6
Beam Angle (50%): 21.6°
Field Angle (10%): 46.1°
Cutoff Angle (3%): 78.7°

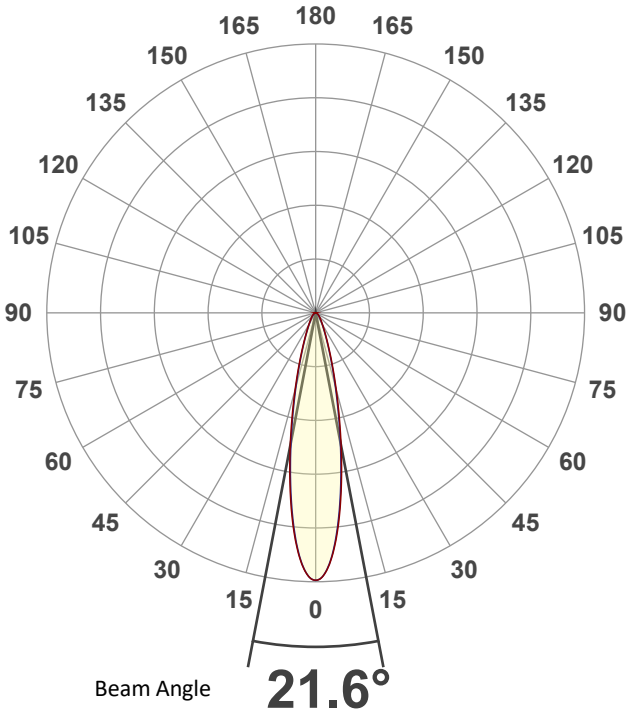
Conditions

AC Supply: 119 V, 60 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

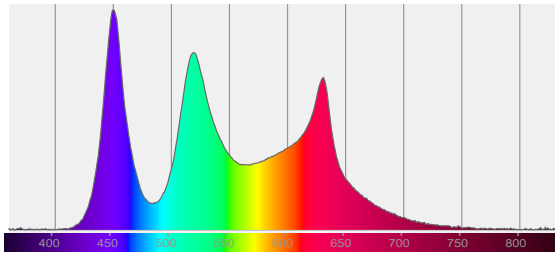
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 4/14/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.320
Y: 0.336

Light Quality

CRI: 85.6

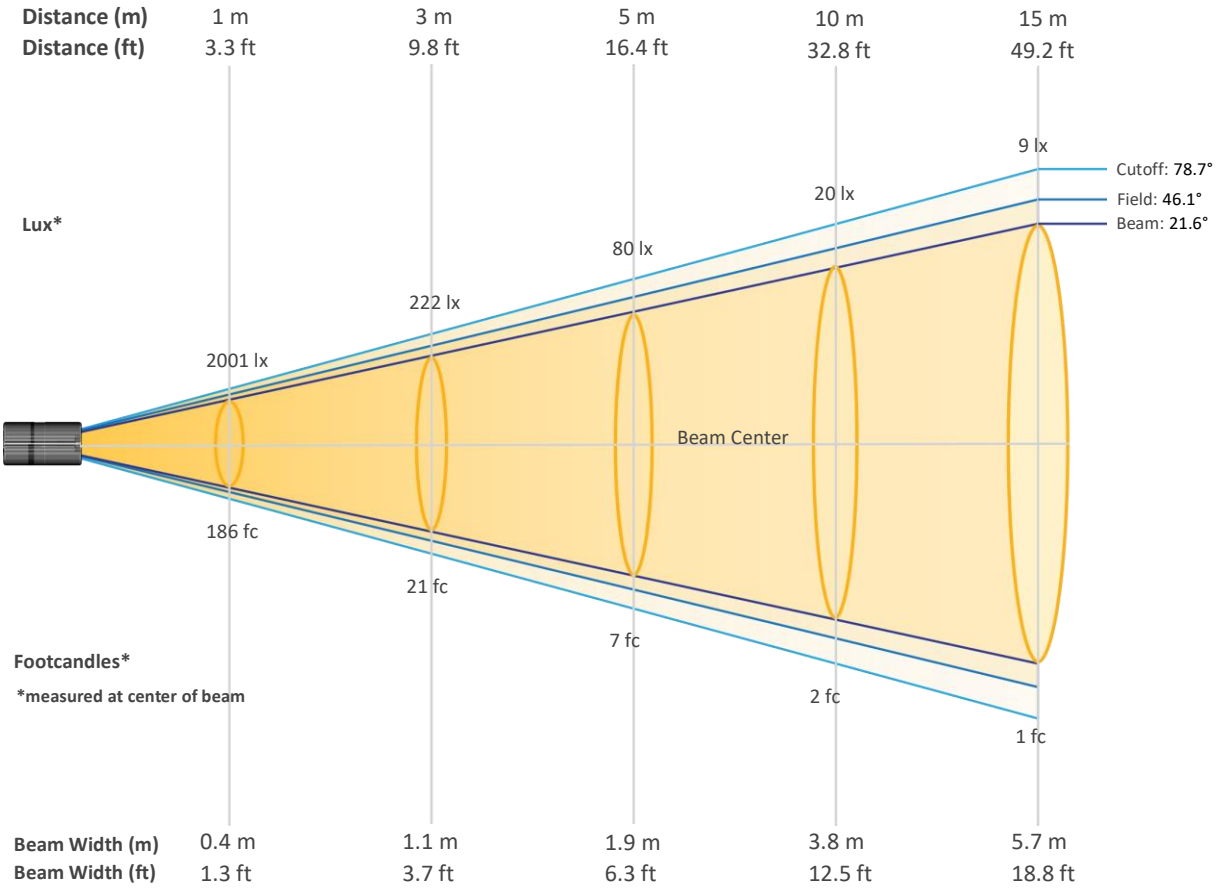
Color Temperature

6089 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-18hrs

Beam Details

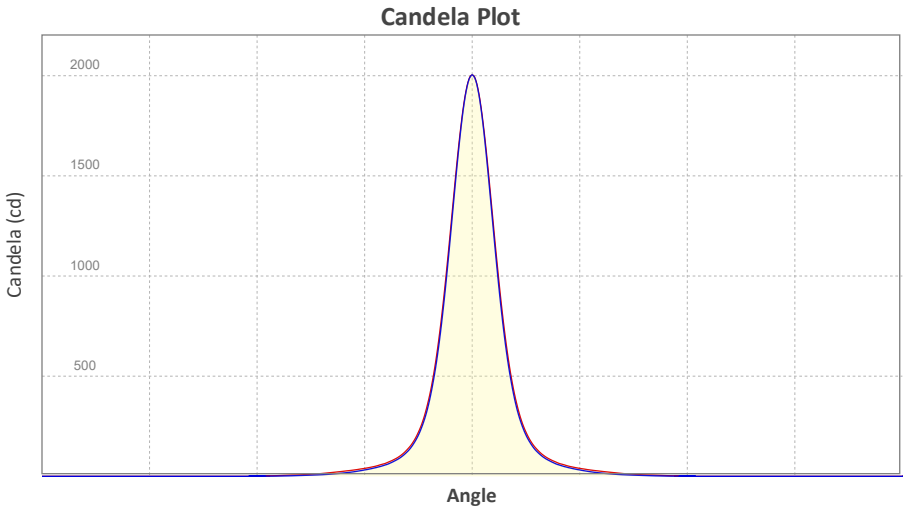


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	2001	500	222	125	80	56	41	31	25	20
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	17	14	12	10	9	8	7	6	6	5
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	186	46	21	12	7	5	4	3	2	2
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	2	1	1	1	1	1	1	1	1	0

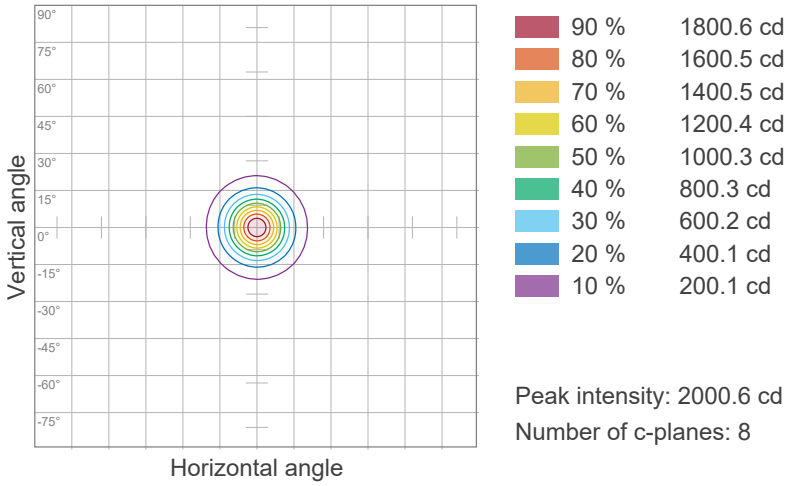
Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-18hrs

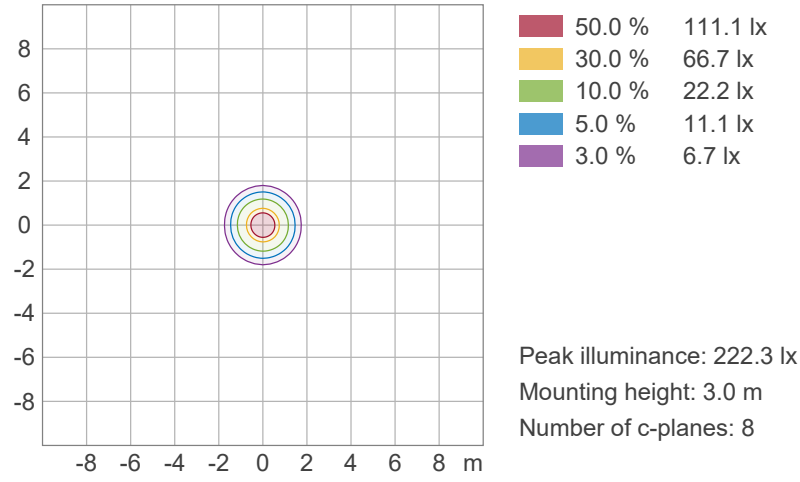


ISO Diagrams

ISO Candela Diagram



ISO Lux Diagram

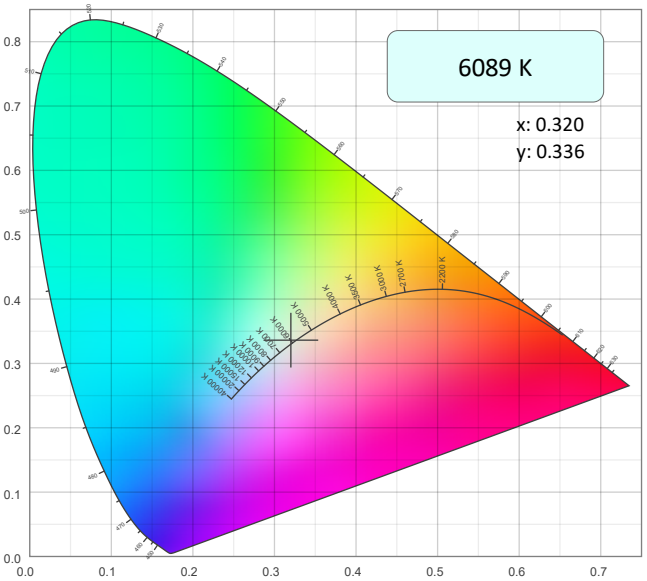


Photometric & Chromaticity Report

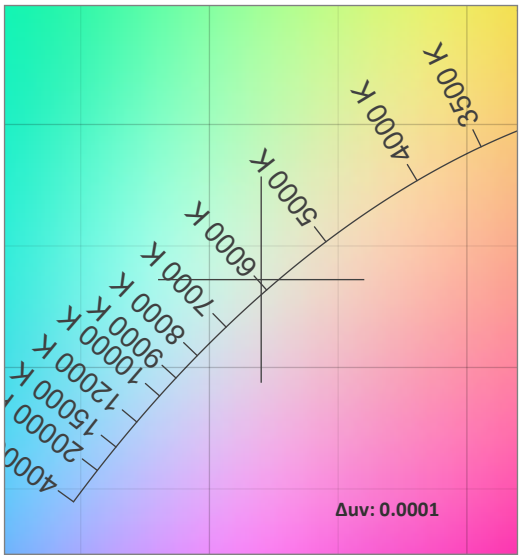
Well Batten 14: Standard Optics-w/15deg Filter - Full Power-18hrs

Chromaticity

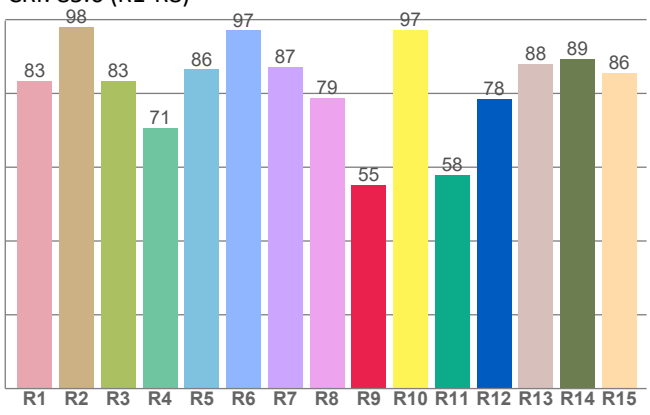
CIE 1931



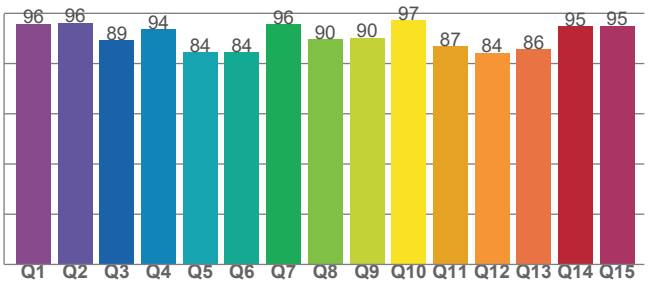
CIE 1931 - Zoom



CRI: 85.6 (R1-R8)



CQS: 89.7



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6089 K	0.320	0.336

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0001	0.336	0.200

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
85.6	55.2	89.7

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
72	87.8	110.6

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-18hrs

TM-30 Details

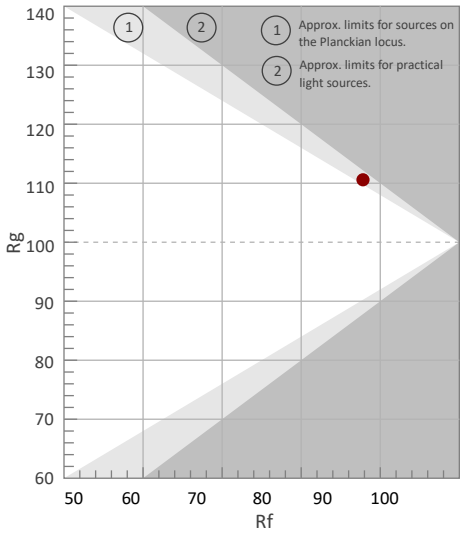
Rf 87.8

Fidelity Index (Rg)

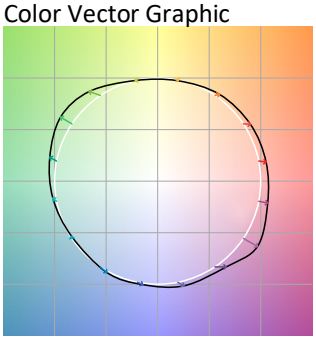
Rg 110.6

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	86	7%	-2%
2	88	5%	-4%
3	89	3%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-4%
10	94	-1%	-2%
11	86	1%	8%
12	92	1%	5%
13	92	5%	5%
14	82	6%	9%
15	83	16%	1%
16	85	9%	0%

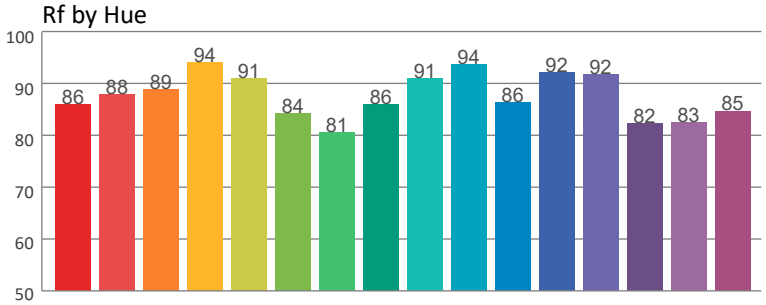


Color Vector Graphic

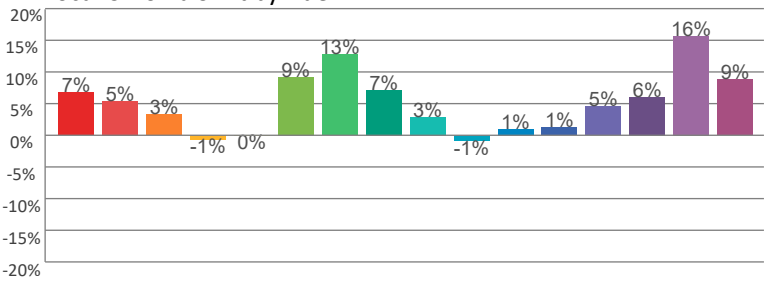


Color Distortion Graphic

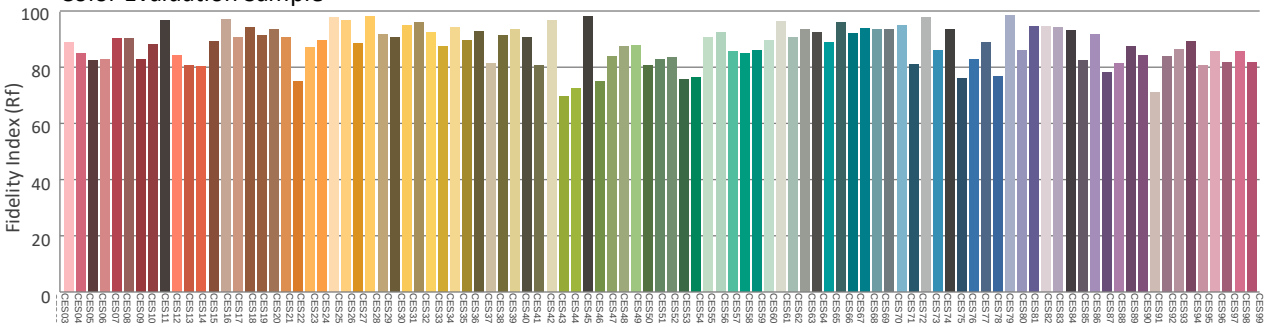
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-AC

Report Summary

Measurements

Fixture Output: 3466 lm
Fixture Peak: 14288 cd
Fixture Efficacy: 41 lm/W
Intensity @ 5m: 570 lux
Color Temperature: 6281 K
CRI: 84.9 CRI R9 Value: 47.6
CQS: 90.1
TLCI: 75
TM-30 Rf: 87.6
TM-30 Rg: 110.8
Beam Angle (50%): 21.6°
Field Angle (10%): 46.1°
Cutoff Angle (3%): 78.7°

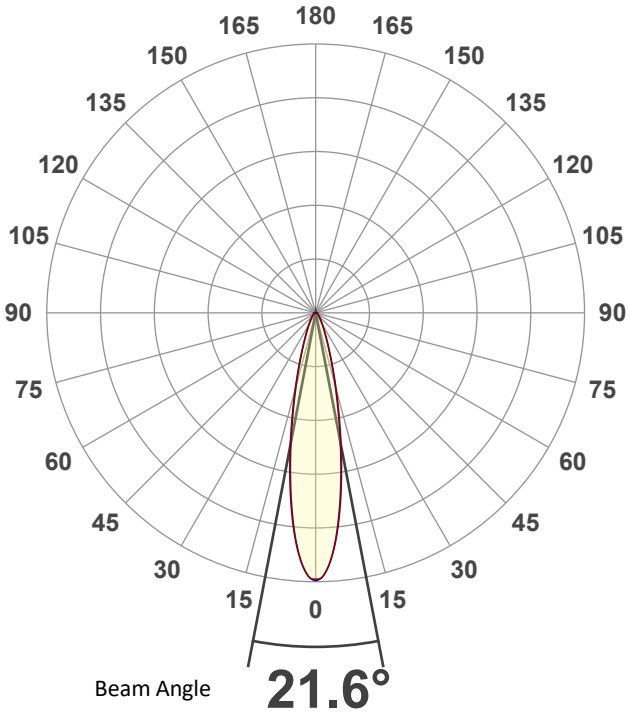
Conditions

AC Supply: 118 V, 60.1 Hz
Power: 84.68 W
Current: 0.721 A
Power Factor: 1.0

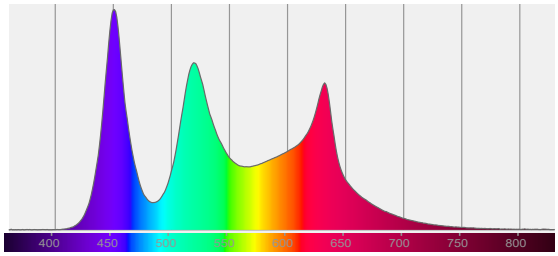
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 4/14/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.317
Y: 0.329

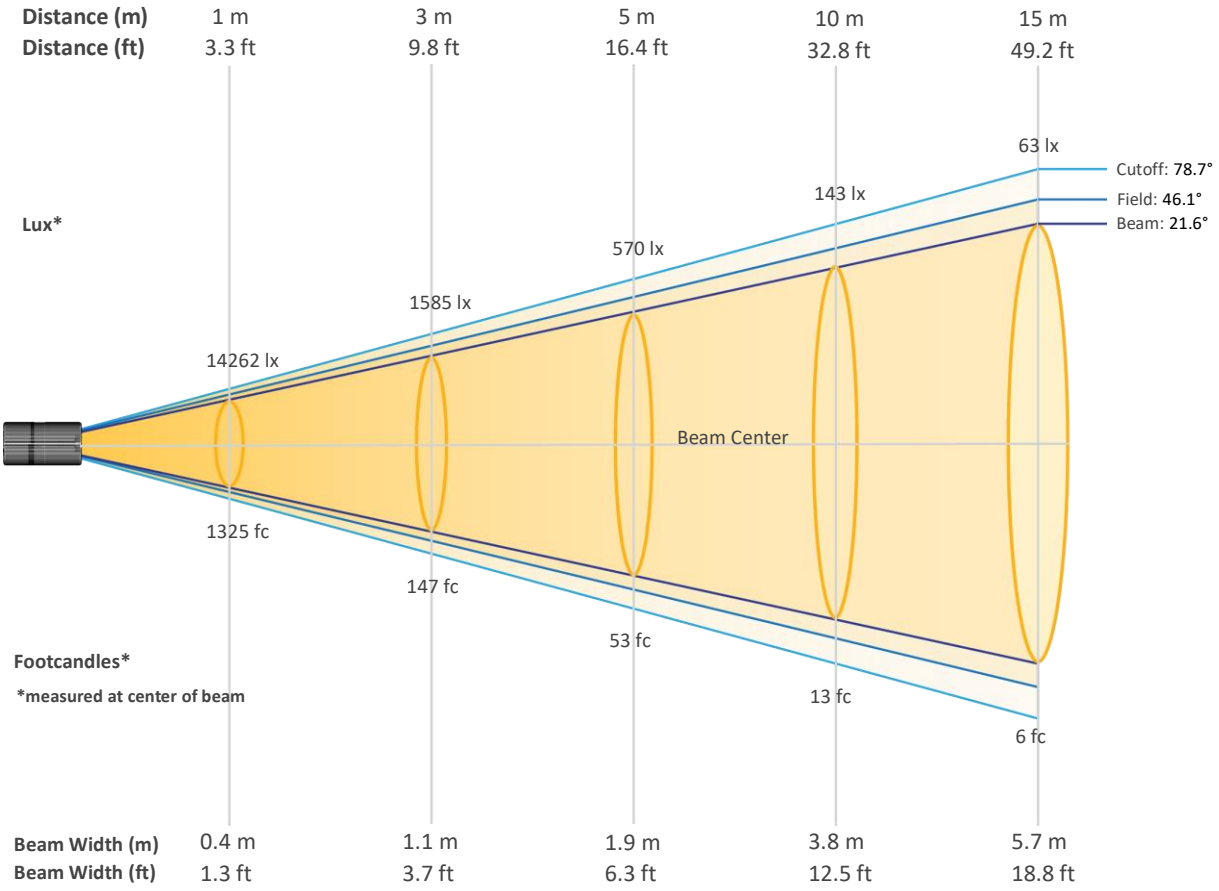
Light Quality

Color Temperature

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-AC

Beam Details

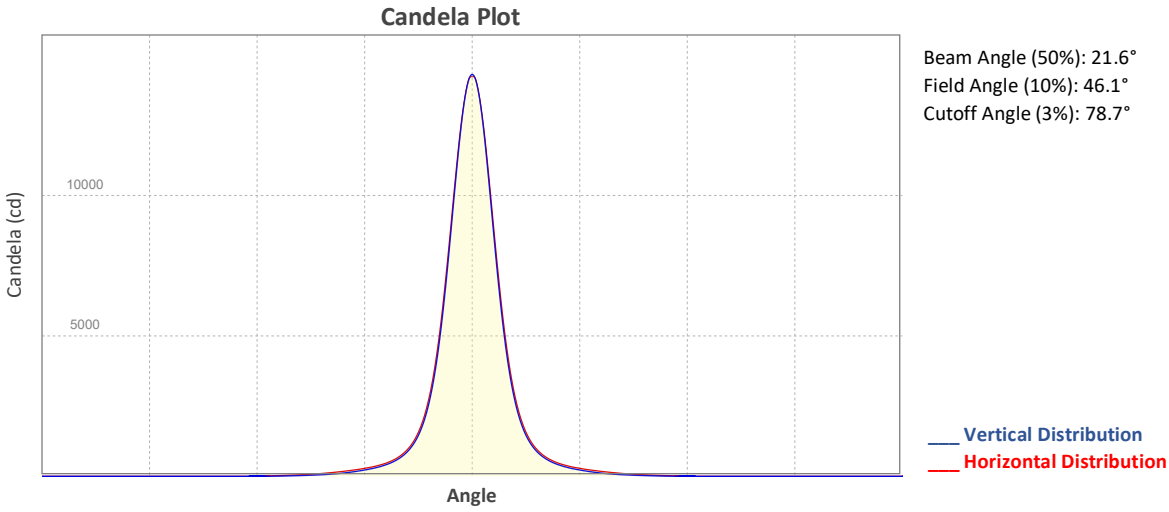


Beam Intensities from 1-20m (3.3-65.6ft)

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	14262	3565	1585	891	570	396	291	223	176	143
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	118	99	84	73	63	56	49	44	40	36
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	1325	331	147	83	53	37	27	21	16	13
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	11	9	8	7	6	5	5	4	4	3

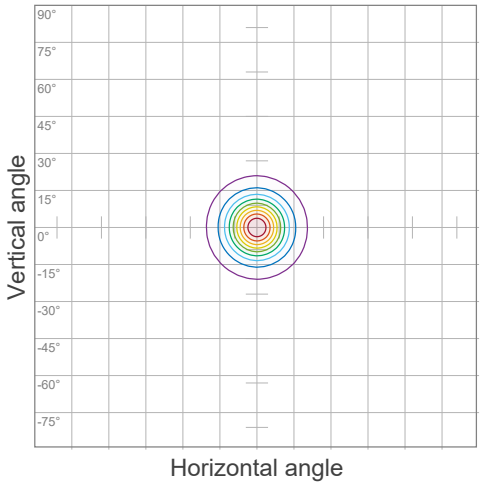
Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-AC



ISO Diagrams

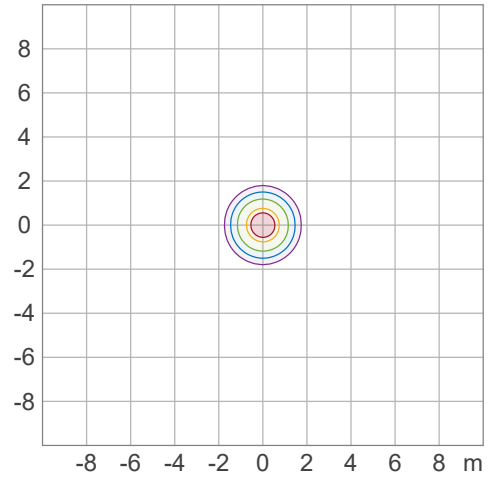
ISO Candela Diagram



90 %	12835.6 cd
80 %	11409.4 cd
70 %	9983.2 cd
60 %	8557.1 cd
50 %	7130.9 cd
40 %	5704.7 cd
30 %	4278.5 cd
20 %	2852.4 cd
10 %	1426.2 cd

Peak intensity: 14261.8 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	792.3 lx
30.0 %	475.4 lx
10.0 %	158.5 lx
5.0 %	79.2 lx
3.0 %	47.5 lx

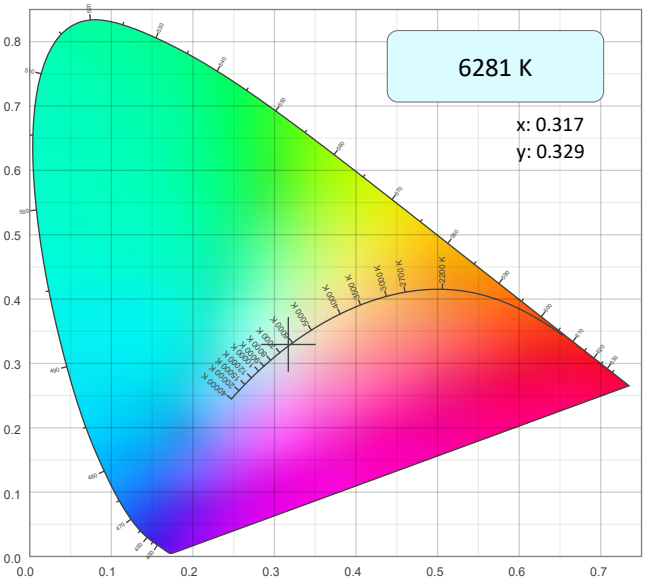
Peak illuminance: 1584.6 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

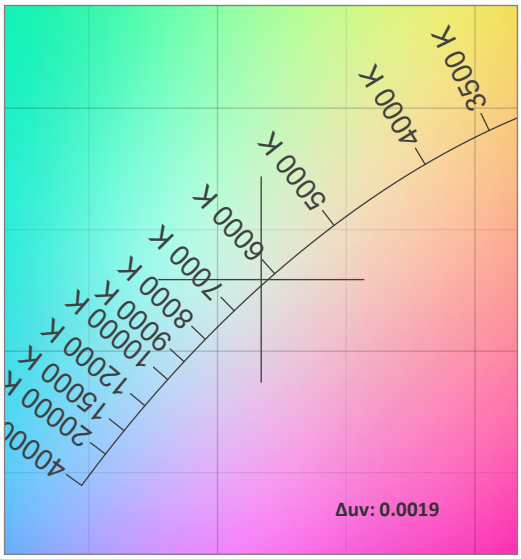
Well Batten 14: Standard Optics-w/15deg Filter - Full Power-AC

Chromaticity

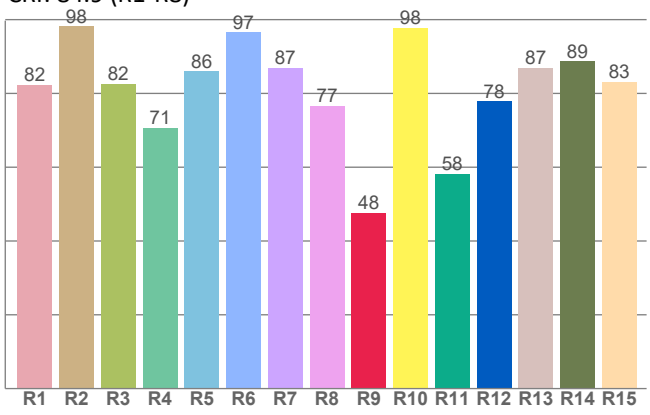
CIE 1931



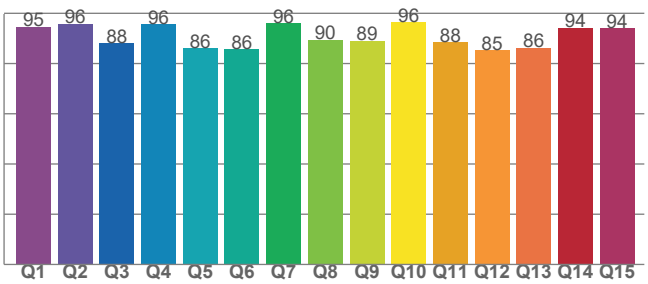
CIE 1931 - Zoom



CRI: 84.9 (R1-R8)



CQS: 90.1



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6281 K	0.317	0.329

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0019	0.329	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.9	47.6	90.1

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
75	87.6	110.8

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-AC

TM-30 Details

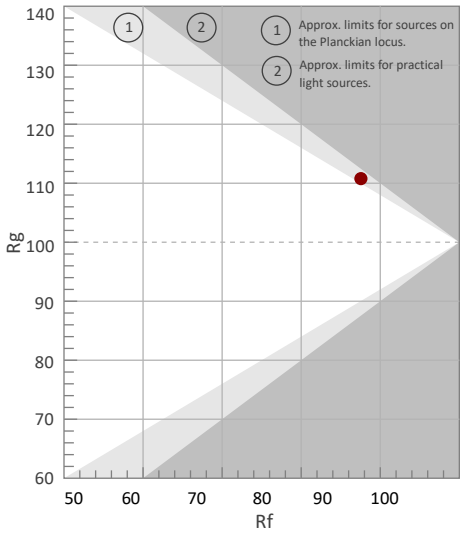
Rf 87.6

Fidelity Index (Rg)

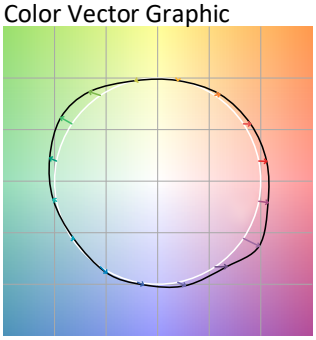
Rg 110.8

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	90	0%	2%
6	84	9%	7%
7	81	12%	1%
8	86	7%	-1%
9	91	3%	-3%
10	92	-1%	1%
11	86	1%	8%
12	91	1%	6%
13	91	5%	7%
14	81	6%	10%
15	81	17%	2%
16	84	9%	1%

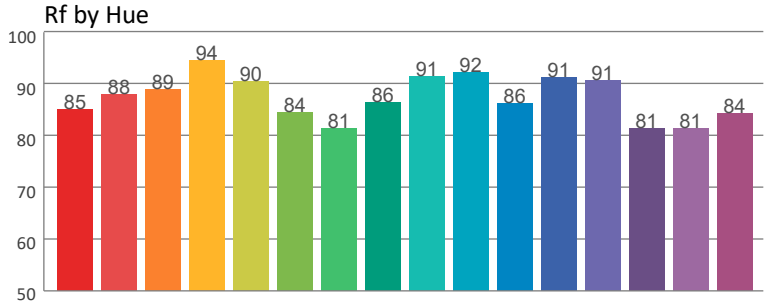


Color Vector Graphic

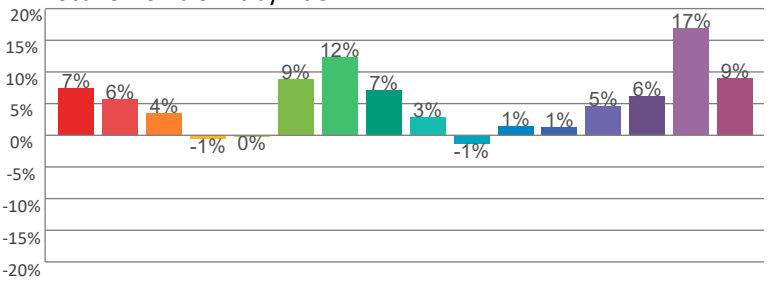


Color Distortion Graphic

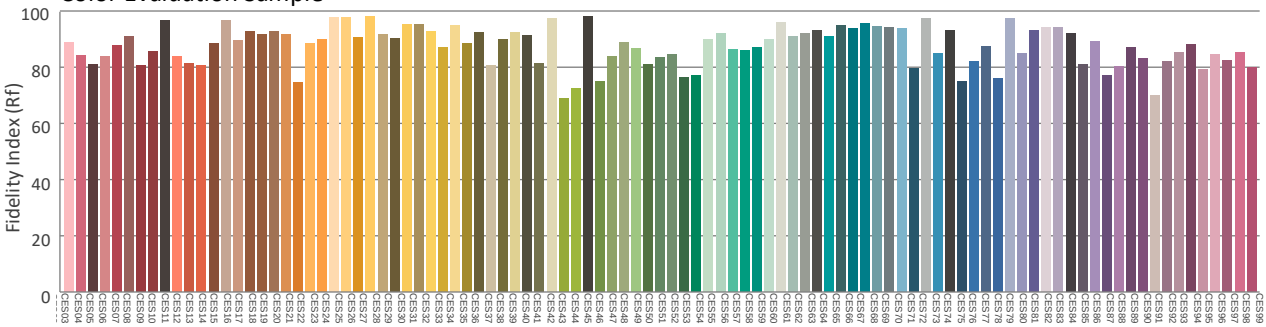
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-Off

Report Summary

Measurements

Fixture Output: 1976 lm
Fixture Peak: 8165 cd
Fixture Efficacy: n/a lm/W
Intensity @ 5m: 326 lux
Color Temperature: 6212 K
CRI: 84.9 CRI R9 Value: 48.8
CQS: 89.9
TLCI: 74
TM-30 Rf: 87.5
TM-30 Rg: 110.9
Beam Angle (50%): 21.6°
Field Angle (10%): 46°
Cutoff Angle (3%): 78.5°

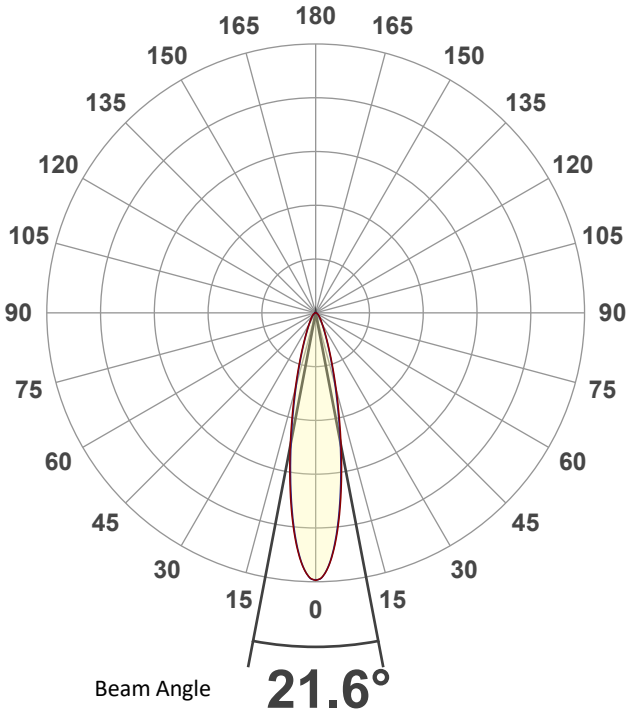
Conditions

AC Supply: 119 V, 60.1 Hz
Power: 0.0 W
Current: 0.000 A
Power Factor: n/a

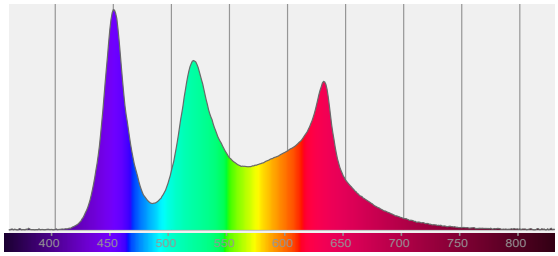
This data sheet conforms to American National Standard E1.9 – 2007 (R2017). All data was measured and calculated by a Viso Systems LabSpion Goniometer at the Chauvet PD Optics Laboratory in Davie, FL on 4/14/2025 to LM-63-2002 Standards.

Overall Measurement

Angular Beam Distribution



Spectral Distribution



Tested Color (CIE 1931):
X: 0.318
Y: 0.331

Light Quality

CRI: 84.9

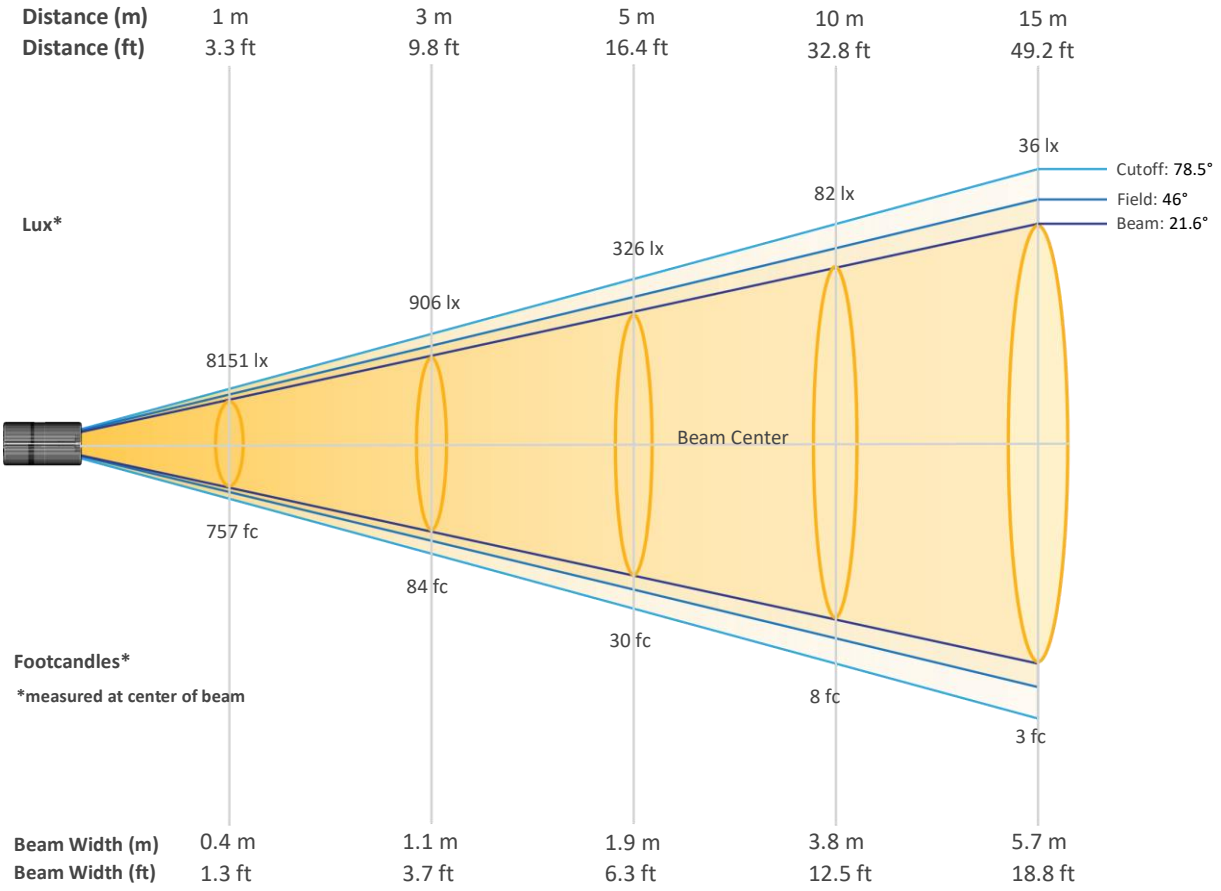
Color Temperature

6212 K

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-Off

Beam Details



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

Distance	1m	2m	3m	4m	5m	6m	7m	8m	9m	10m
Lux	8151	2038	906	509	326	226	166	127	101	82
Distance	**11m**	**12m**	**13m**	**14m**	**15m**	**16m**	**17m**	**18m**	**19m**	**20m**
Lux	67	57	48	42	36	32	28	25	23	20
Distance	**3.3ft**	**6.6ft**	**9.8ft**	**13.1ft**	**16.4ft**	**19.7ft**	**23ft**	**26.2ft**	**29.5ft**	**32.8ft**
FC	757	189	84	47	30	21	15	12	9	8
Distance	**36.1ft**	**39.4ft**	**42.7ft**	**45.9ft**	**49.2ft**	**52.5ft**	**55.8ft**	**59.1ft**	**62.3ft**	**65.6ft**
FC	6	5	4	4	3	3	3	2	2	2

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-Off

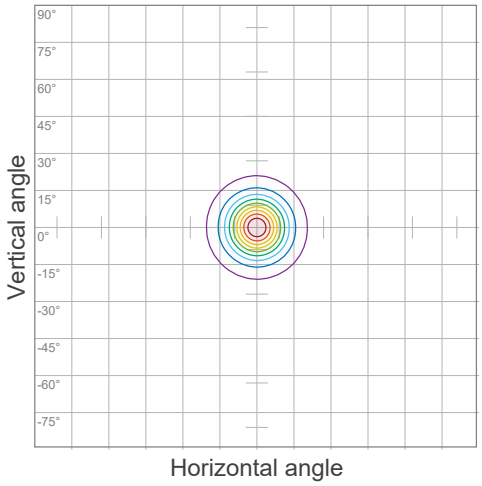
Candela Plot

Beam Angle (50%): 21.6°
Field Angle (10%): 46°
Cutoff Angle (3%): 78.5°

Vertical Distribution
Horizontal Distribution

ISO Diagrams

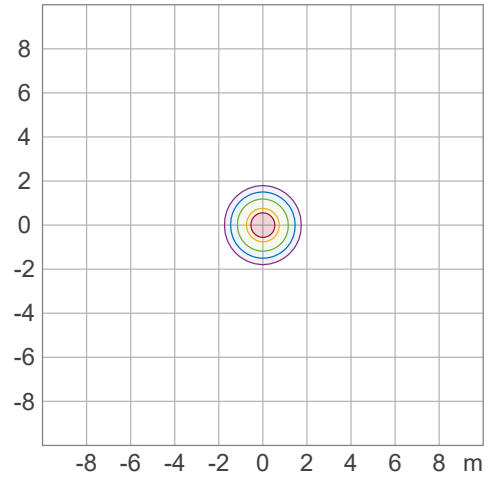
ISO Candela Diagram



90 %	7336.1 cd
80 %	6521.0 cd
70 %	5705.8 cd
60 %	4890.7 cd
50 %	4075.6 cd
40 %	3260.5 cd
30 %	2445.4 cd
20 %	1630.2 cd
10 %	815.1 cd

Peak intensity: 8151.2 cd
Number of c-planes: 8

ISO Lux Diagram



50.0 %	452.8 lx
30.0 %	271.7 lx
10.0 %	90.6 lx
5.0 %	45.3 lx
3.0 %	27.2 lx

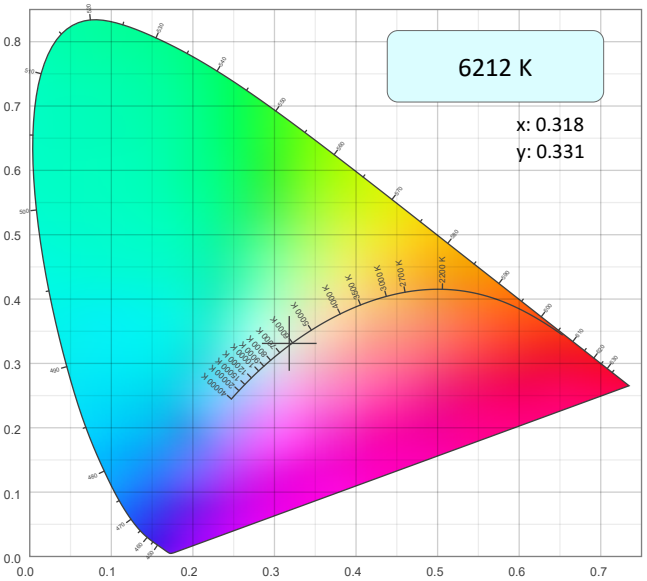
Peak illuminance: 905.7 lx
Mounting height: 3.0 m
Number of c-planes: 8

Photometric & Chromaticity Report

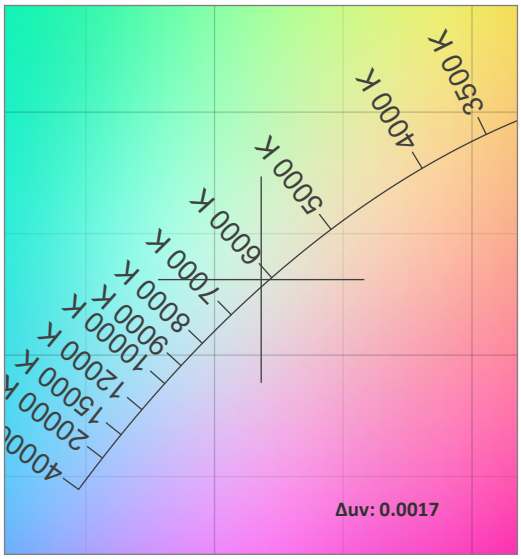
Well Batten 14: Standard Optics-w/15deg Filter - Full Power-Off

Chromaticity

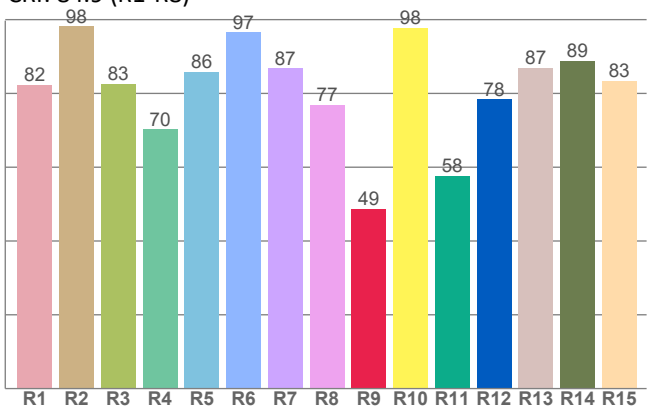
CIE 1931



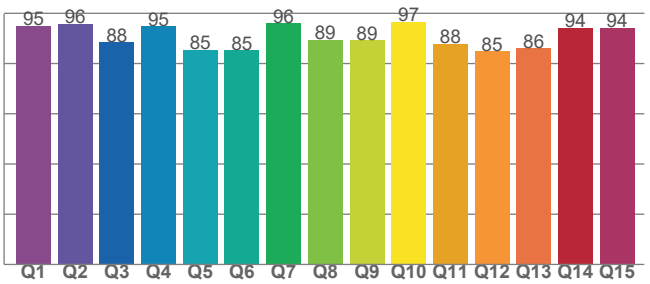
CIE 1931 - Zoom



CRI: 84.9 (R1-R8)



CQS: 89.9



Color Parameters

Color Temperature	Color Coordinate CIE 1931	Color Coordinate CIE 1931
CCT	x	y
6212 K	0.318	0.331

Color Deviation from Black Body Curve	Color Coordinate CIE 1964	Color Coordinate CIE 1964
Δuv	y	u
0.0017	0.331	0.201

Color Rendering Index	Red Component	Color Quality Scale
CRI	CRI - R9	CQS
84.9	48.8	89.9

Television Lighting Consistency Index	Color Fidelity	Color Gamut
TLCI	TM30 - Rf	TM30 Rg
74	87.5	110.9

Photometric & Chromaticity Report

Well Batten 14: Standard Optics-w/15deg Filter - Full Power-Off

TM-30 Details

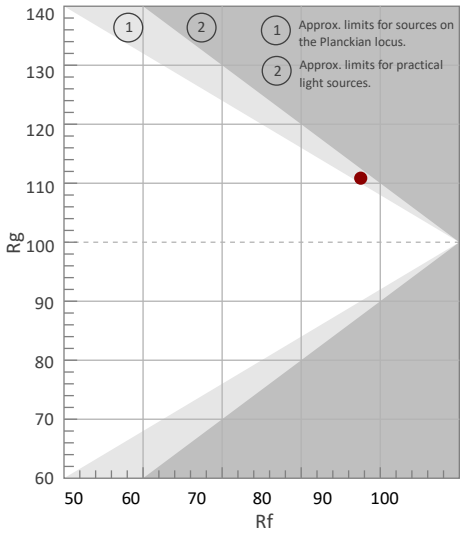
Rf 87.5

Fidelity Index (Rg)

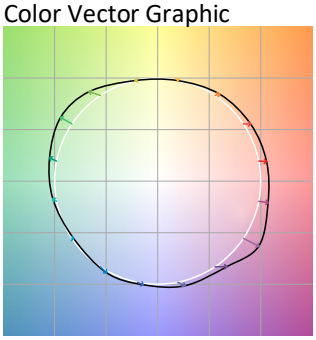
Rg 110.9

Gammut Index (Rg)

		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	85	7%	-2%
2	88	6%	-4%
3	89	4%	-3%
4	94	-1%	0%
5	91	0%	2%
6	84	9%	7%
7	81	13%	1%
8	86	7%	-2%
9	91	3%	-3%
10	92	-1%	1%
11	86	1%	8%
12	91	1%	6%
13	91	5%	6%
14	81	6%	10%
15	82	17%	2%
16	84	9%	0%

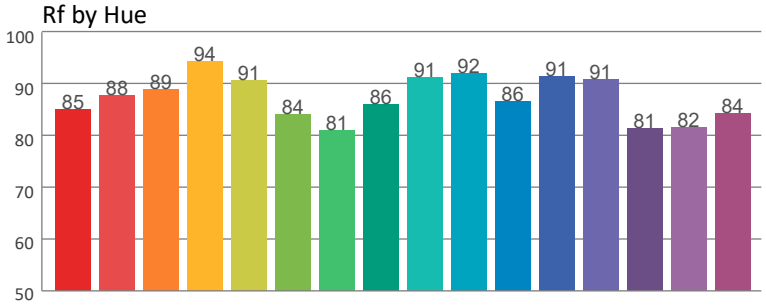


Color Vector Graphic

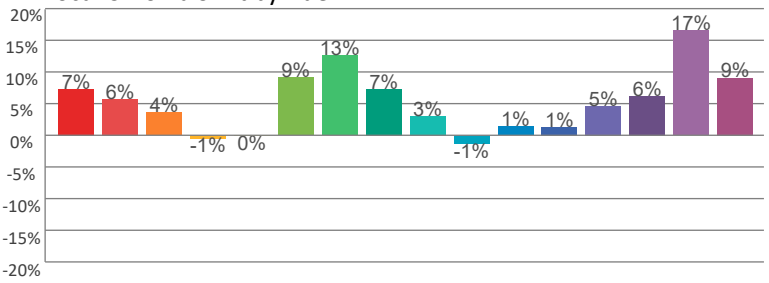


Color Distortion Graphic

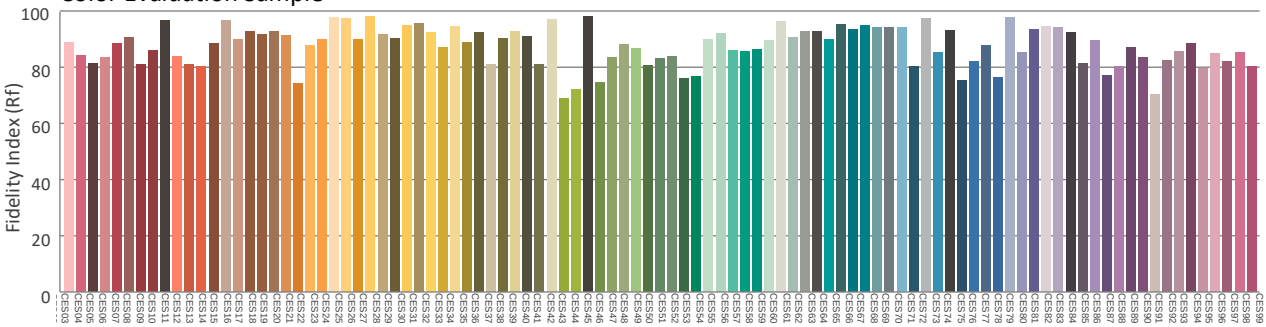
Rf by Hue



Local Chroma Shift by Hue



Color Evaluation Sample



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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.