ELATION®

Proteus Odeon

Photometric &

Chromaticity Test Reports

CONTENTS

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Testing Process

Total Lumen Measurements

Lumens are measured using a Viso Systems Lab Spion. As a goniophotometer, the Viso calculates the field lumens of the fixture by taking multiple measurements across the light beam.

Many lumens figures provided for entertainment lighting fixtures are only 2π sphere values, some even emphasize the LED engine lumens. All Elation product photometric data is the actual light output from the fixture lens, never a theoretical value based on calculation or using the source lumens as the fixtures output. We advise to always compare total fixture lumens acquired with identical measurement systems when comparing lighting fixtures.

Test Lab Equipment and Process

Elation operates an optical testing laboratory at its Los Angeles, CA headquarters to provide accurate photometric data for its lighting products. The testing lab is both light and climate- controlled and contains a variety of precise lighting measurement systems. Fixtures are analyzed with the sophisticated Viso Systems Lab Spion equipment, which measures all light and color parameters by panning the light beam at a precise speed and from different angles through a calibrated, laser aligned light and color sensor. Test data is collected and summarized by the Viso Light Inspector software. This type of measurement system is referred to as a Goniophotometer.

The Viso software calculates all relevant types of measurements, from beam angles, candela to center light intensity at a variety of distances to the latest color quality measurements like TM30 or CQS as well as accurate color temperature. This wealth of data is then processed by an Elation specific template which is included in the photometric test report for various fixture conditions such as zoom angles and color correction filters.

The Viso software also creates IES (Illuminating Engineering Society) files for each test report. IES is an industry standard file format created for the easy electronic transfer of photometric test data, which is widely used by lighting manufacturers for photometric data distribution.

Additionally, fixtures are periodically rechecked for accuracy using various hand-held light meters including one or more of the devices listed below. This is done to ensure the test data contained in this report is as accurate as possible.

Asenstek Lighting Passport | Konica Minolta T-10 | Sekonic C800U

Proteus Odeon (Zoom Wide)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 32192 lm

Peak Intensity: 60048 cd

Beam

Beam Angle (50%): 48.9°

Field Angle (10%): 53°

Cutoff Angle (2.5%): 53.7°

Color

Color Temperature: 6691 K

CRI: 80.8

TLCI: 68

TM30 R_F: 79.1

TM30 R_g: 97.7

Power Details

Efficacy: 25 Lumen/Watt

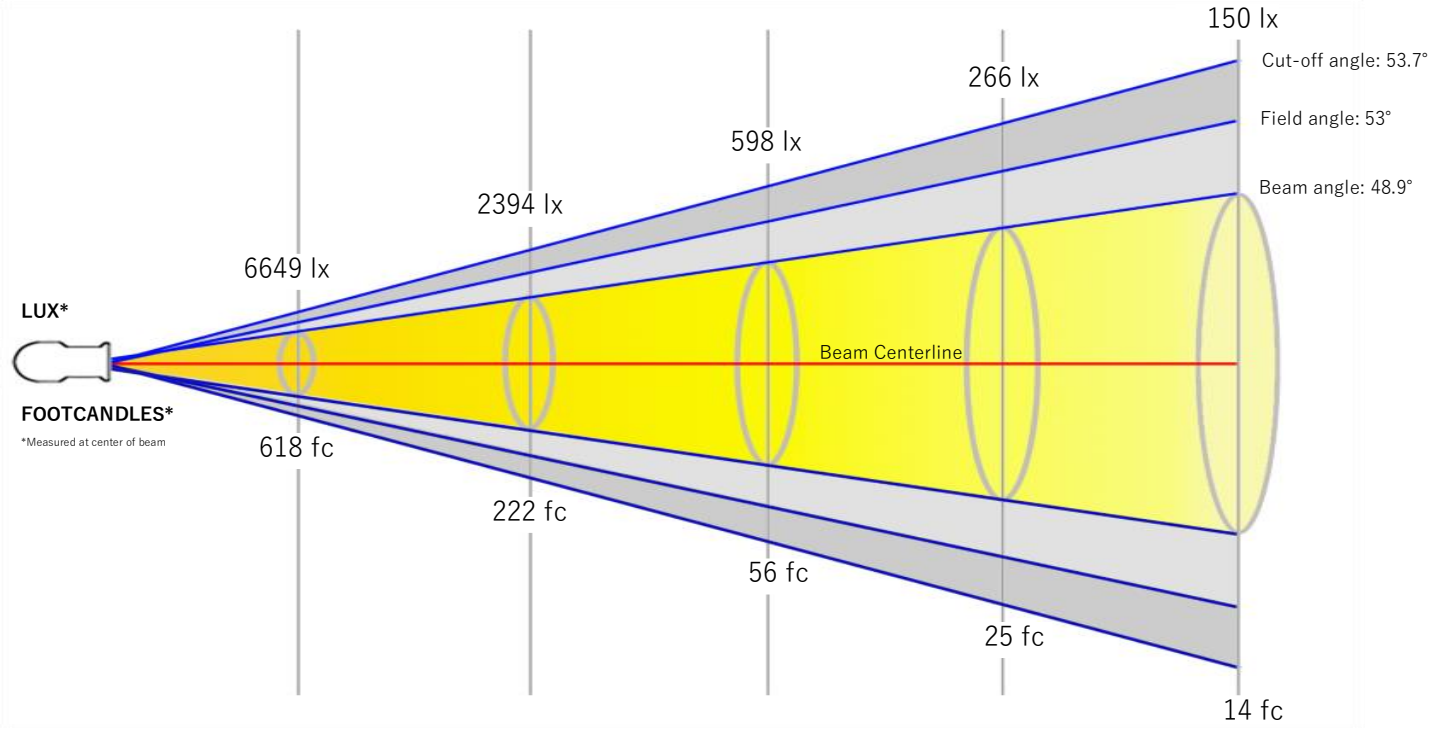
Power: 1293 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.7 m	4.5 m	9.1 m	13.6 m	18.2 m



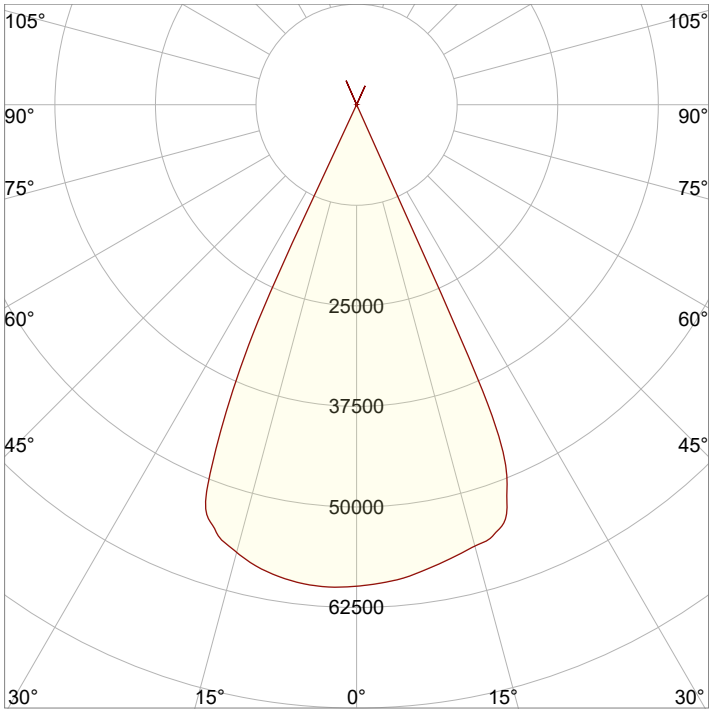
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	8.9 ft	14.9 ft	29.8 ft	44.7 ft	59.6 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	59845	14961	6649	3740	2394	1662	1221	935	739	598	495	416	354	305	266	234	207	185	166	150
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	5559.8	1389.9	617.8	347.5	222.4	154.4	113.5	86.9	68.6	55.6	45.9	38.6	32.9	28.4	24.7	21.7	19.2	17.2	15.4	13.9

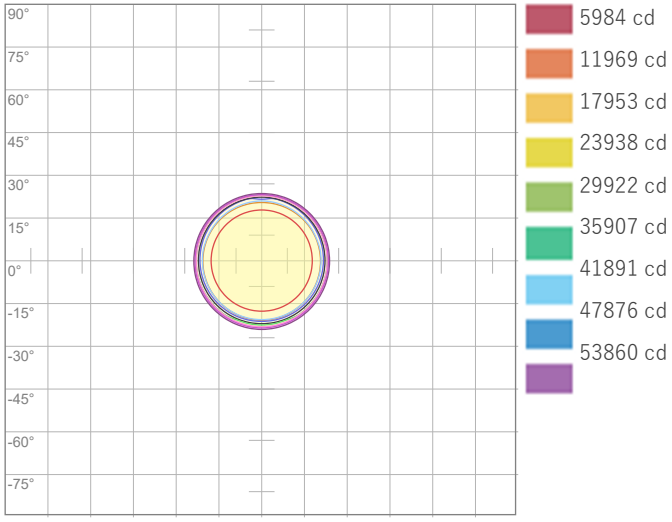
Measurement Date: 5/29/2024

Angular Distribution



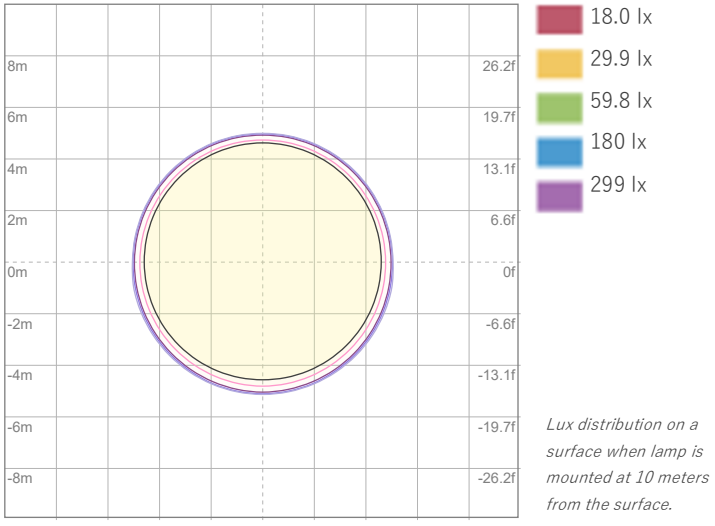
Beam Angle - 50%
48.9°
Field Angle - 10%
53°
Cutoff Angle - 2.5%
53.7°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 59845 cd

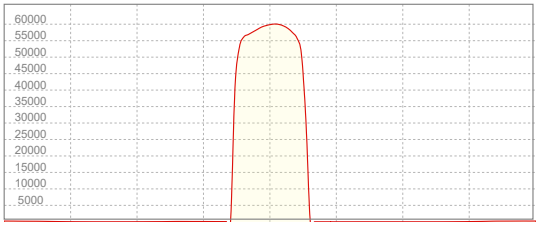


Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 598 lx

Linear Distribution



Peak Candela
60048 cd

Calculate Center Beam Intensities

lux = 60048 / distance(m)^2
fc = 60048 / distance(ft)^2

Measurement Date: 5/29/2024

Proteus Odeon (Zoom 50)

Key Measurements

Output

Total Lumen Output: 30513 lm

Peak Intensity: 463625 cd

Beam

Beam Angle (50%): 17.1°

Field Angle (10%): 19.6°

Cutoff Angle (2.5%): 21.3°

Color

Color Temperature: 6655 K

CRI: 80.6

TLCI: 68

TM30 R_F: 79.0

TM30 R_g: 97.8

Power Details

Efficacy: 23 Lumen/Watt

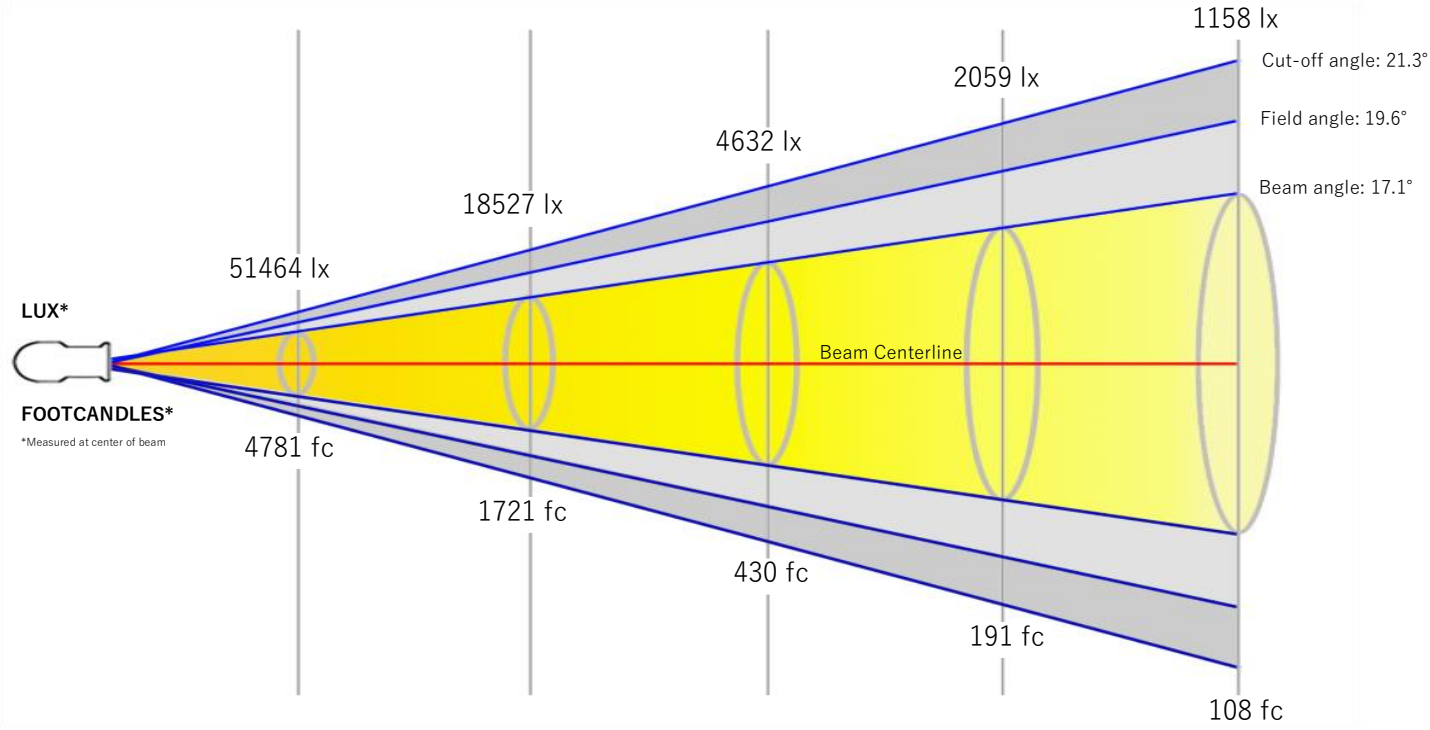
Power: 1320 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.9 m	1.5 m	3 m	4.5 m	6 m



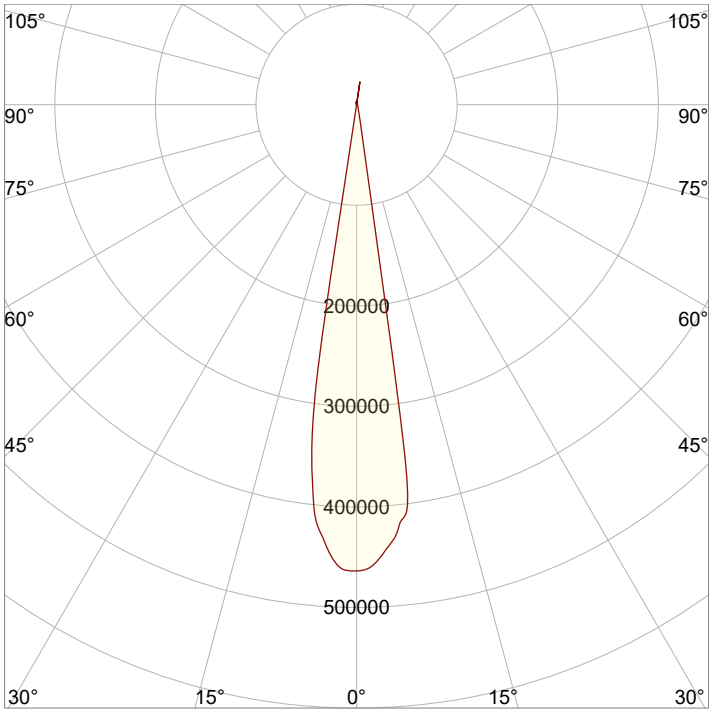
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3 ft	4.9 ft	9.9 ft	14.8 ft	19.8 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	463172	115793	51464	28948	18527	12866	9452	7237	5718	4632	3828	3216	2741	2363	2059	1809	1603	1430	1283	1158
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	43030.1	10757.5	4781.1	2689.4	1721.2	1195.3	878.2	672.3	531.2	430.3	355.6	298.8	254.6	219.5	191.2	168.1	148.9	132.8	119.2	107.6

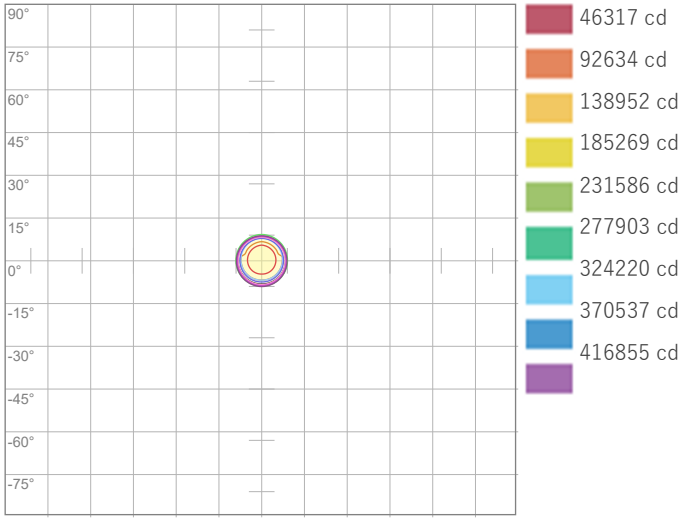
Measurement Date: 5/29/2024

Angular Distribution



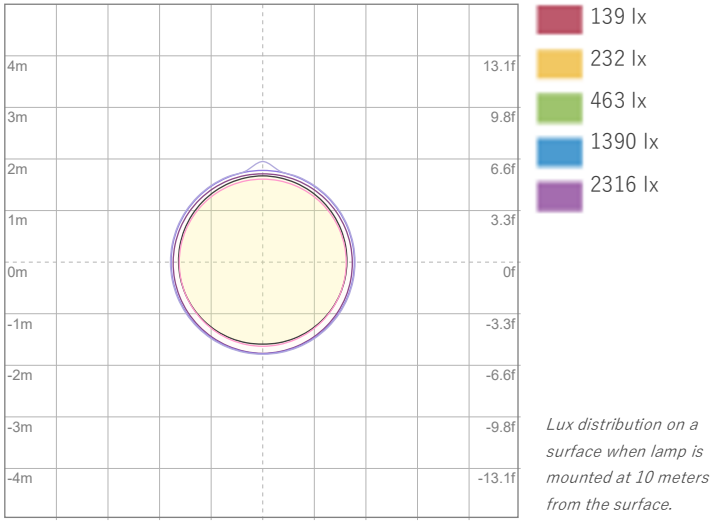
Beam Angle - 50%
17.1°
Field Angle - 10%
19.6°
Cutoff Angle - 2.5%
21.3°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 463172 cd

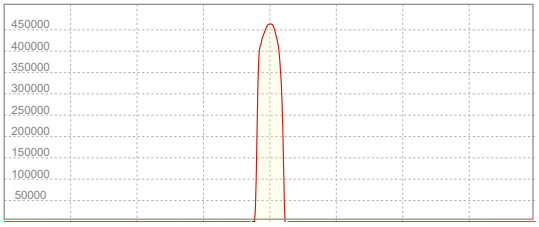


Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 4632 lx

Linear Distribution



Peak Candela
463625 cd

Calculate Center Beam Intensities

lux = 463625 / distance(m)²
fc = 463625 / distance(ft)²

Measurement Date: 5/29/2024

Proteus Odeon (Zoom Narrow)

Key Measurements

Output

Total Lumen Output: 11962 lm

Peak Intensity: 2073030 cd

Beam

Beam Angle (50%): 4.9°

Field Angle (10%): 5.7°

Cutoff Angle (2.5%): 5.9°

Color

Color Temperature: 6790 K

CRI: 80.2

TLCI: 66

TM30 R_F: 78.3

TM30 R_g: 98.4

Power Details

Efficacy: 9 Lumen/Watt

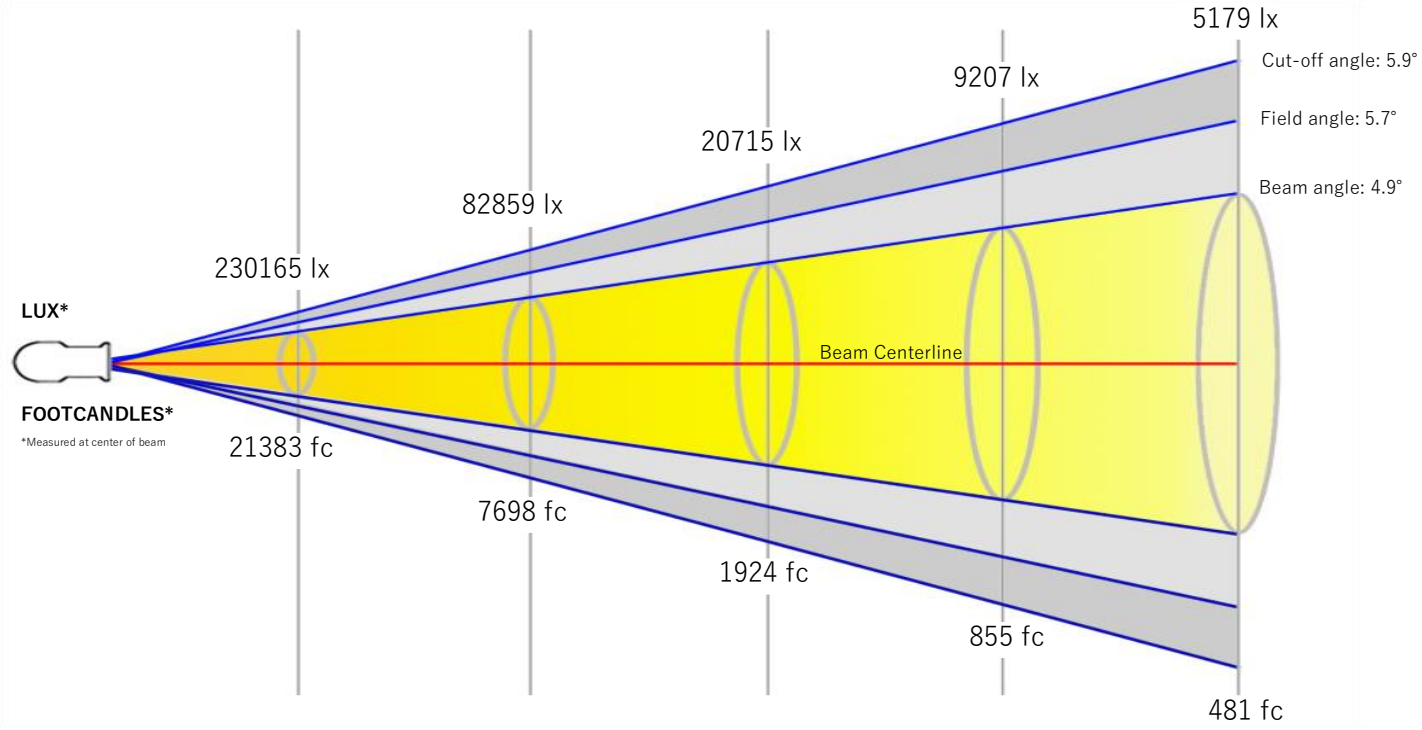
Power: 1263 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.3 m	0.4 m	0.9 m	1.3 m	1.7 m



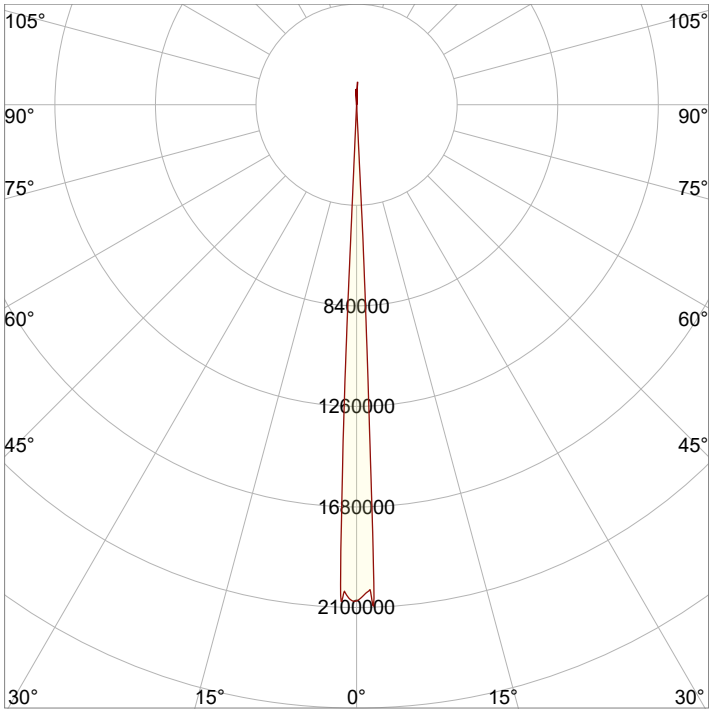
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.8 ft	1.4 ft	2.8 ft	4.2 ft	5.6 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	2071483	517871	230165	129468	82859	57541	42275	32367	25574	20715	17120	14385	12257	10569	9207	8092	7168	6393	5738	5179
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	192447.1	48111.8	21383	12027.9	7697.9	5345.8	3927.5	3007	2375.9	1924.5	1590.5	1336.4	1138.7	981.9	855.3	751.7	665.9	594	533.1	481.1

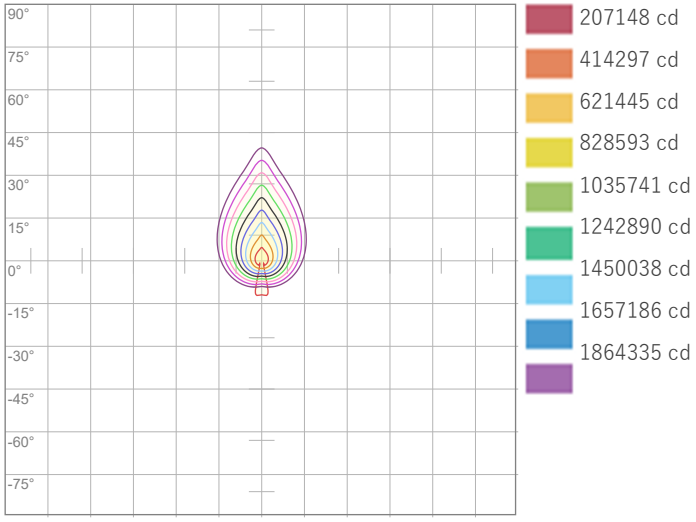
Measurement Date: 5/30/2024

Angular Distribution



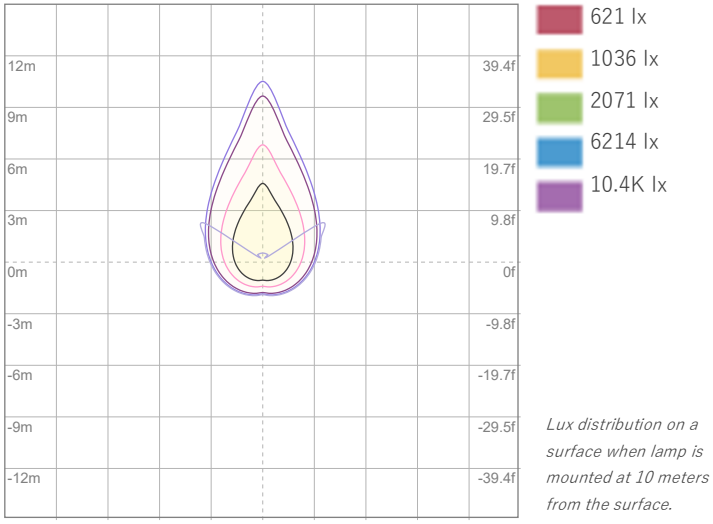
Beam Angle - 50%
4.9°
Field Angle - 10%
5.7°
Cutoff Angle - 2.5%
5.9°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 2071483 cd

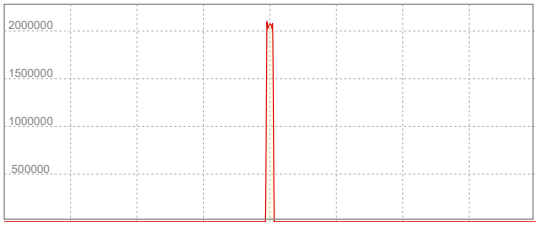


Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 20.7K lx

Linear Distribution



Peak Candela
2073030 cd

Calculate Center Beam Intensities

lux = 2073030 / distance(m)²
fc = 2073030 / distance(ft)²

Measurement Date: 5/30/2024

Proteus Odeon (Zoom Wide High CRI)

Key Measurements

Output

Total Lumen Output: 17047 lm

Peak Intensity: 30792 cd

Beam

Beam Angle (50%): 49°

Field Angle (10%): 52.3°

Cutoff Angle (2.5%): 54.3°

Color

Color Temperature: 6611 K

CRI: 92.8

TLCI: 92

TM30 R_F: 88.8

TM30 R_g: 100.1

Power Details

Efficacy: 21 Lumen/Watt

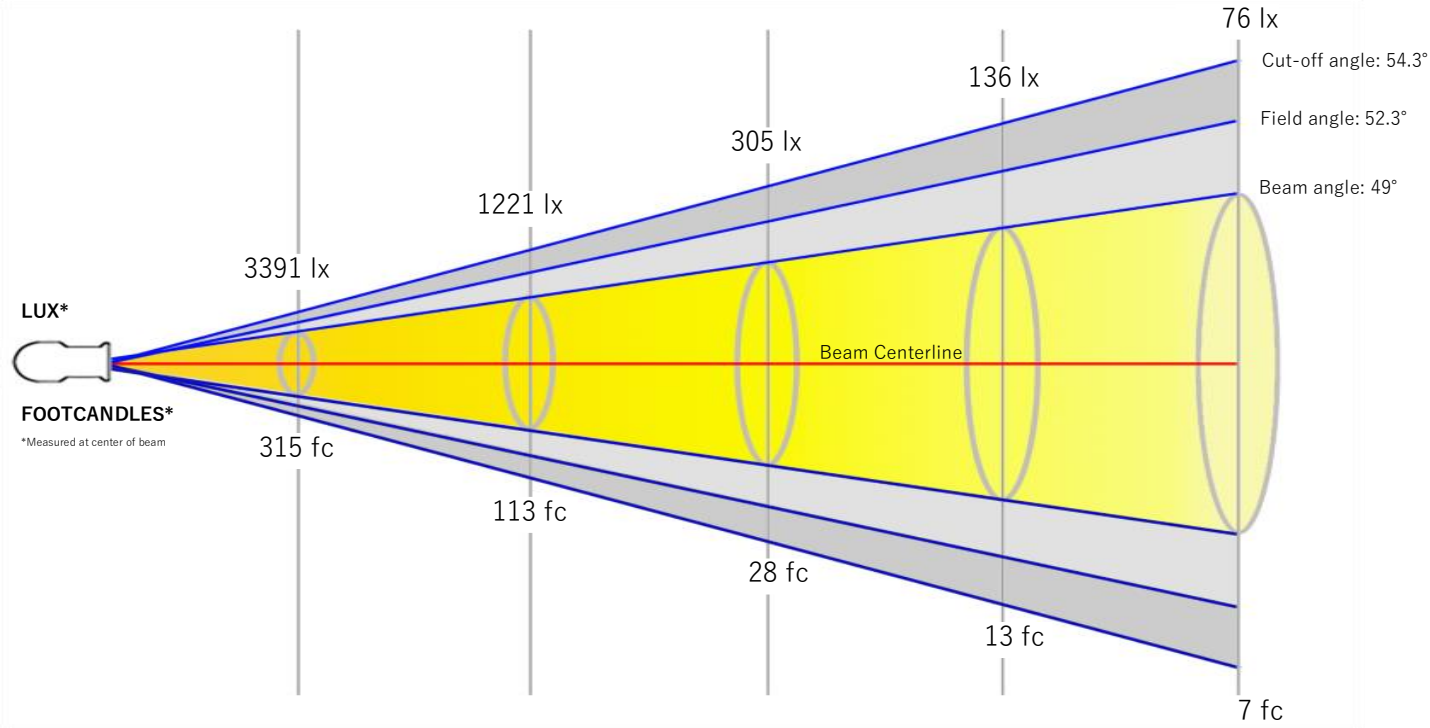
Power: 810 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.7 m	4.6 m	9.1 m	13.7 m	18.2 m



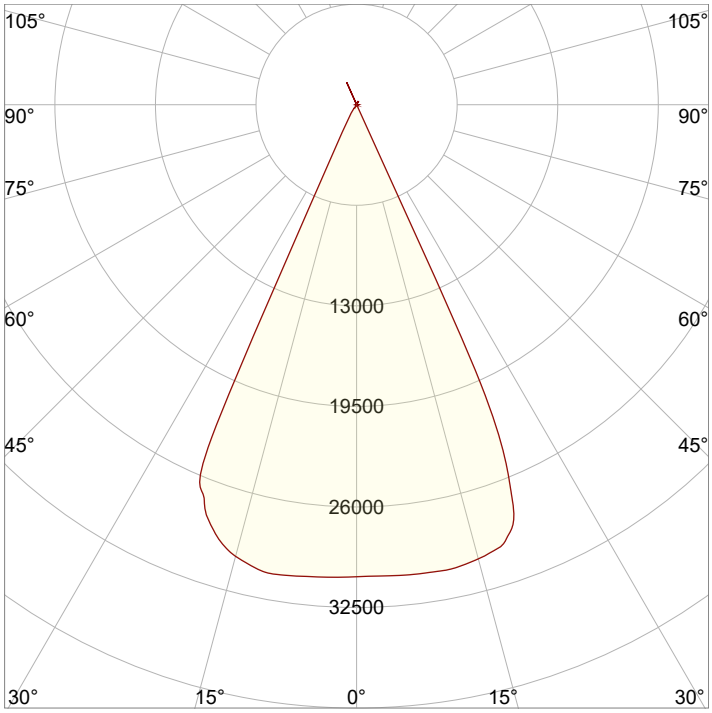
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	8.9 ft	15 ft	29.9 ft	44.9 ft	59.9 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	30516	7629	3391	1907	1221	848	623	477	377	305	252	212	181	156	136	119	106	94	85	76
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	2835	708.8	315	177.2	113.4	78.8	57.9	44.3	35	28.4	23.4	19.7	16.8	14.5	12.6	11.1	9.8	8.8	7.9	7.1

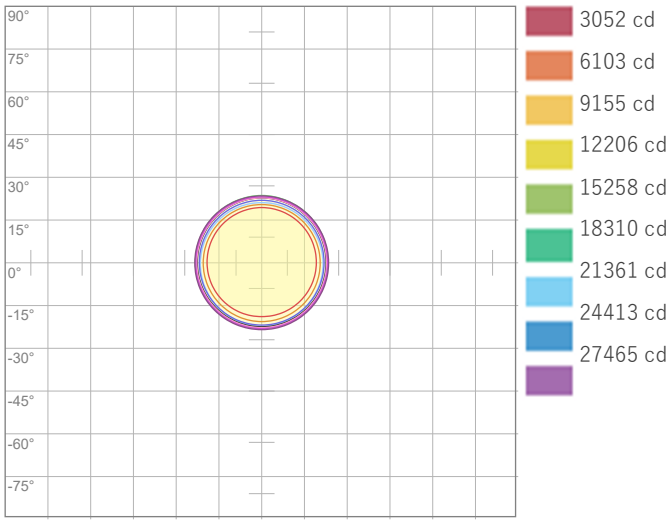
Measurement Date: 5/29/2024

Angular Distribution



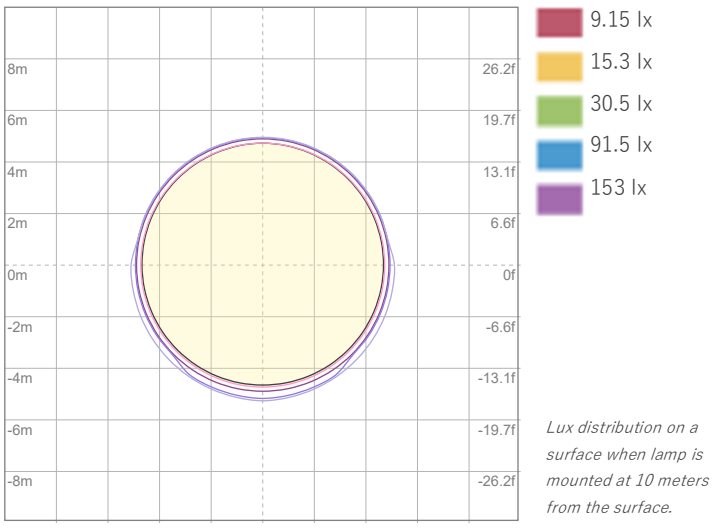
Beam Angle - 50%
49°
Field Angle - 10%
52.3°
Cutoff Angle - 2.5%
54.3°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 30516 cd



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

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 305 lx

Linear Distribution

Peak Candela
30792 cd

Calculate Center Beam Intensities

lux = 30792 / distance(m)²
fc = 30792 / distance(ft)²

Measurement Date: 5/29/2024

Proteus Odeon (Zoom 50 High CRI)

Key Measurements

Output

Total Lumen Output: 16030 lm

Peak Intensity: 245409 cd

Beam

Beam Angle (50%): 17.1°

Field Angle (10%): 19.6°

Cutoff Angle (2.5%): 21.2°

Color

Color Temperature: 6568 K

CRI: 92.8

TLCI: 92

TM30 R_F: 88.8

TM30 R_g: 100.1

Power Details

Efficacy: 20 Lumen/Watt

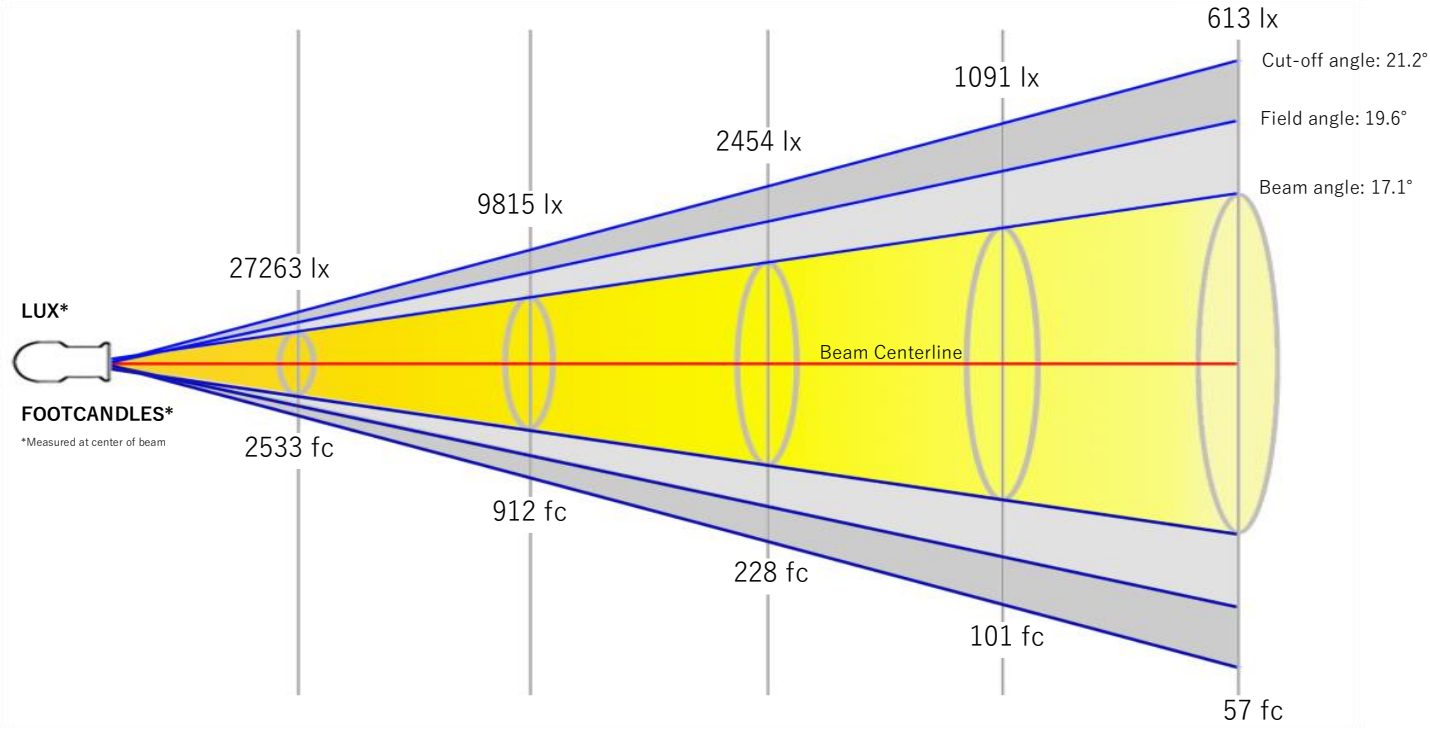
Power: 800 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.9 m	1.5 m	3 m	4.5 m	6 m



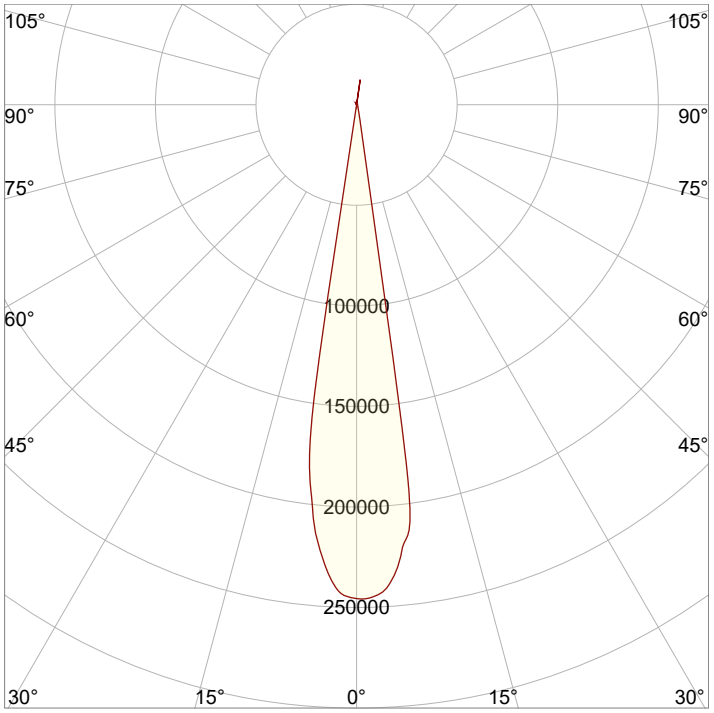
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3 ft	4.9 ft	9.9 ft	14.8 ft	19.8 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	245366	61341	27263	15335	9815	6816	5007	3834	3029	2454	2028	1704	1452	1252	1091	958	849	757	680	613
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	22795.2	5698.8	2532.8	1424.7	911.8	633.2	465.2	356.2	281.4	228	188.4	158.3	134.9	116.3	101.3	89	78.9	70.4	63.1	57

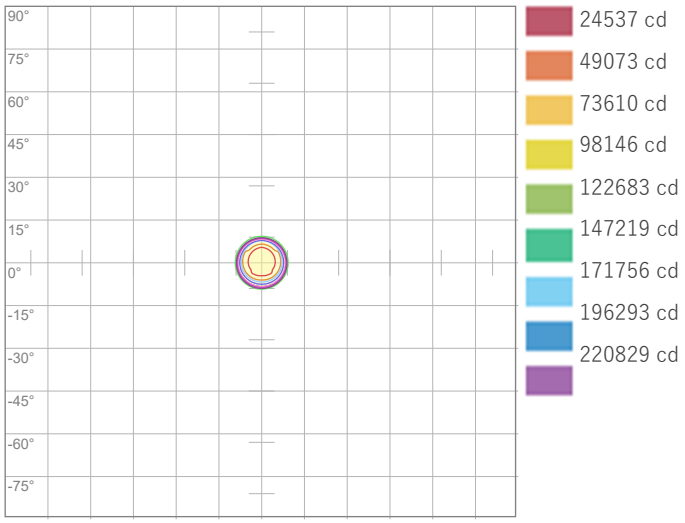
Measurement Date: 5/30/2024

Angular Distribution



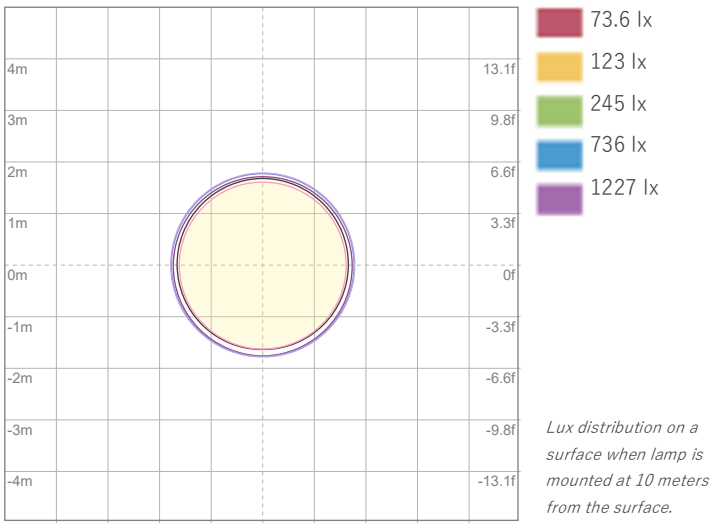
Beam Angle - 50%
17.1°
Field Angle - 10%
19.6°
Cutoff Angle - 2.5%
21.2°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 245366 cd



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

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 2454 lx

Linear Distribution

Peak Candela
245409 cd

Calculate Center Beam Intensities

lux = 245409 / distance(m)^2
fc = 245409 / distance(ft)^2

Measurement Date: 5/30/2024

Proteus Odeon (Zoom Narrow High CRI)

Key Measurements

Output

Total Lumen Output: 5302 lm

Peak Intensity: 881259 cd

Beam

Beam Angle (50%): 5°

Field Angle (10%): 6.3°

Cutoff Angle (2.5%): 6.8°

Color

Color Temperature: 6921 K

CRI: 93.9

TLCI: 92

TM30 R_F: 89.0

TM30 R_g: 101.1

Power Details

Efficacy: 7 Lumen/Watt

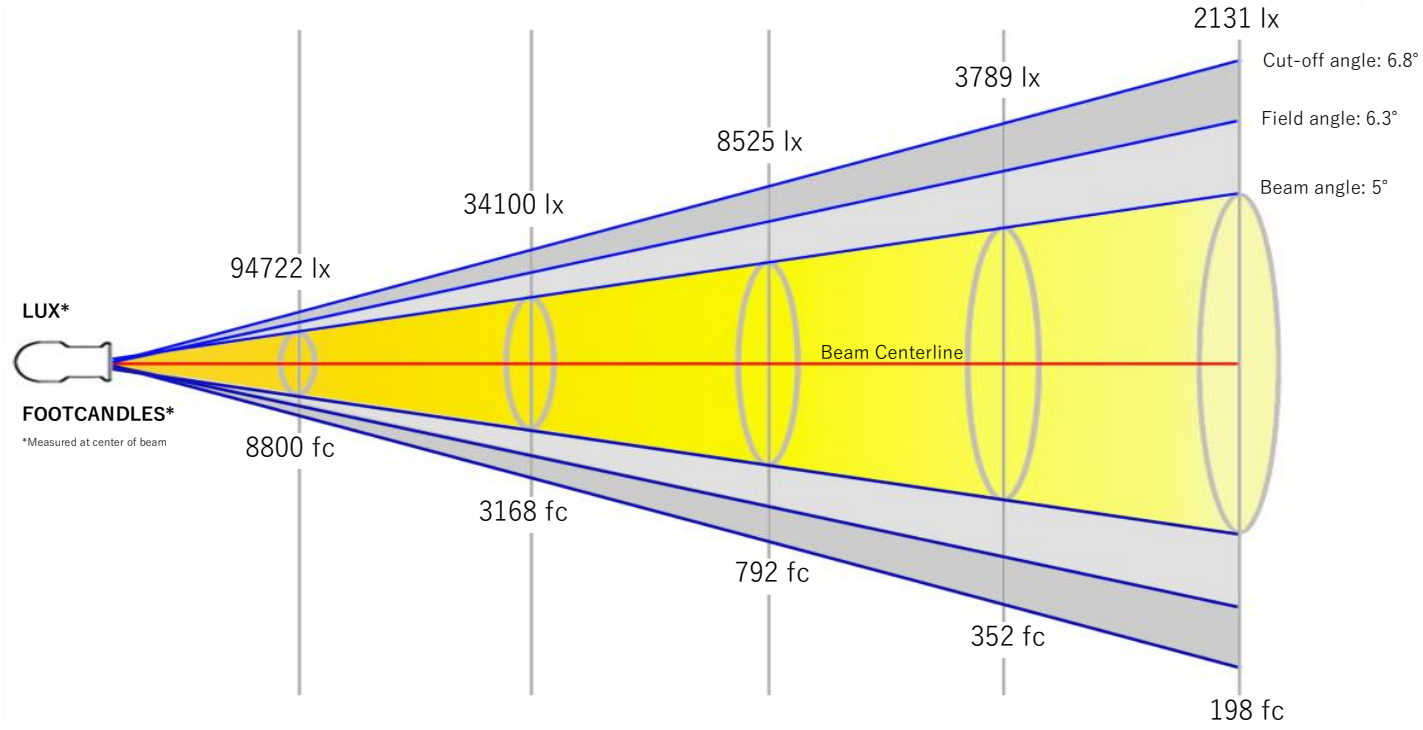
Power: 795 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.3 m	0.4 m	0.9 m	1.3 m	1.7 m



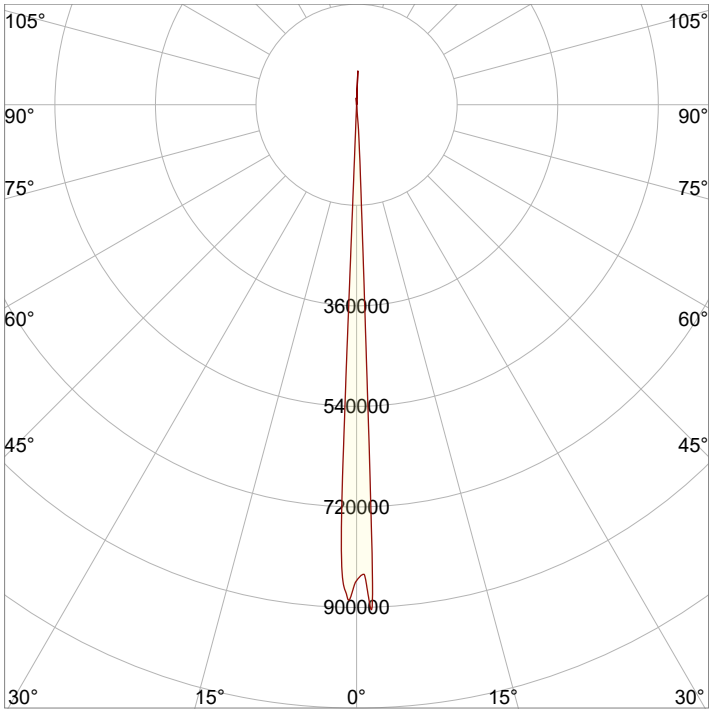
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.9 ft	1.4 ft	2.9 ft	4.3 ft	5.7 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	852498	213124	94722	53281	34100	23680	17398	13320	10525	8525	7045	5920	5044	4349	3789	3330	2950	2631	2361	2131
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	79199.6	19799.9	8800	4950	3168	2200	1616.3	1237.5	977.8	792	654.5	550	468.6	404.1	352	309.4	274	244.4	219.4	198

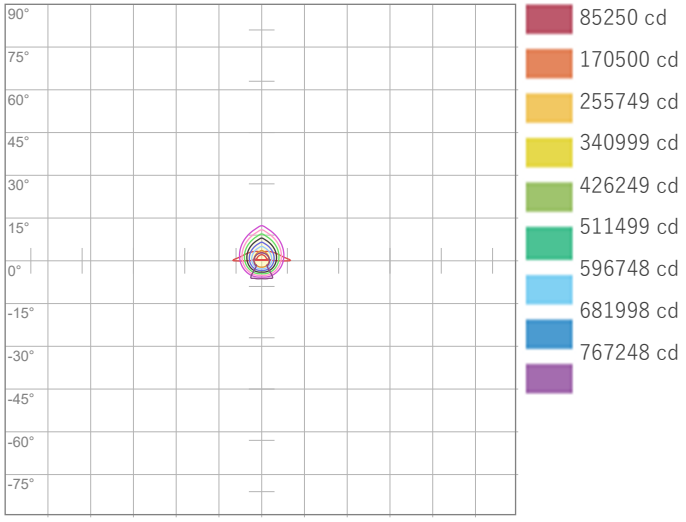
Measurement Date: 5/30/2024

Angular Distribution



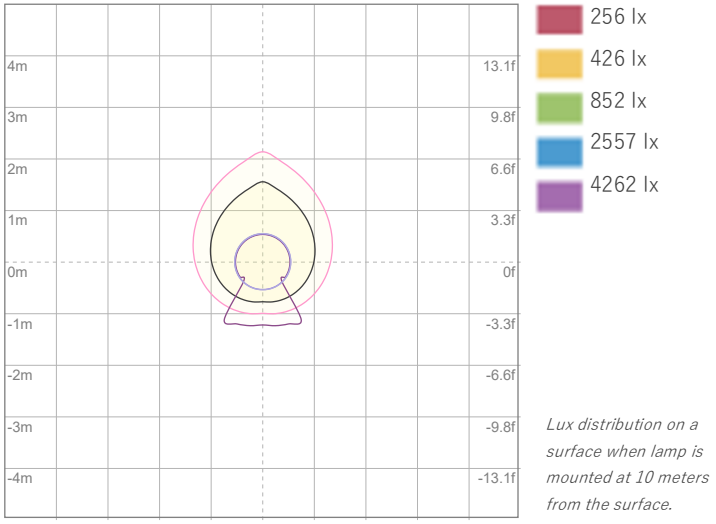
Beam Angle - 50%
5°
Field Angle - 10%
6.3°
Cutoff Angle - 2.5%
6.8°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 852498 cd

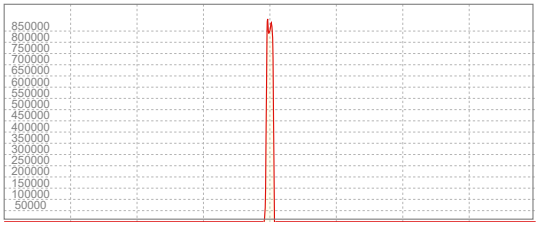


Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 8525 lx

Linear Distribution



Peak Candela
881259 cd

Calculate Center Beam Intensities

lux = 881259 / distance(m)²
fc = 881259 / distance(ft)²

Measurement Date: 5/30/2024

Proteus Odeon (Zoom Wide Low CRI)

Key Measurements

Output

Total Lumen Output: 21601 lm

Peak Intensity: 41036 cd

Beam

Beam Angle (50%): 48.6°

Field Angle (10%): 53.2°

Cutoff Angle (2.5%): 54.5°

Color

Color Temperature: 6587 K

CRI: 71.1

TLCI: 48

TM30 R_F: 69.9

TM30 R_g: 95.7

Power Details

Efficacy: 27 Lumen/Watt

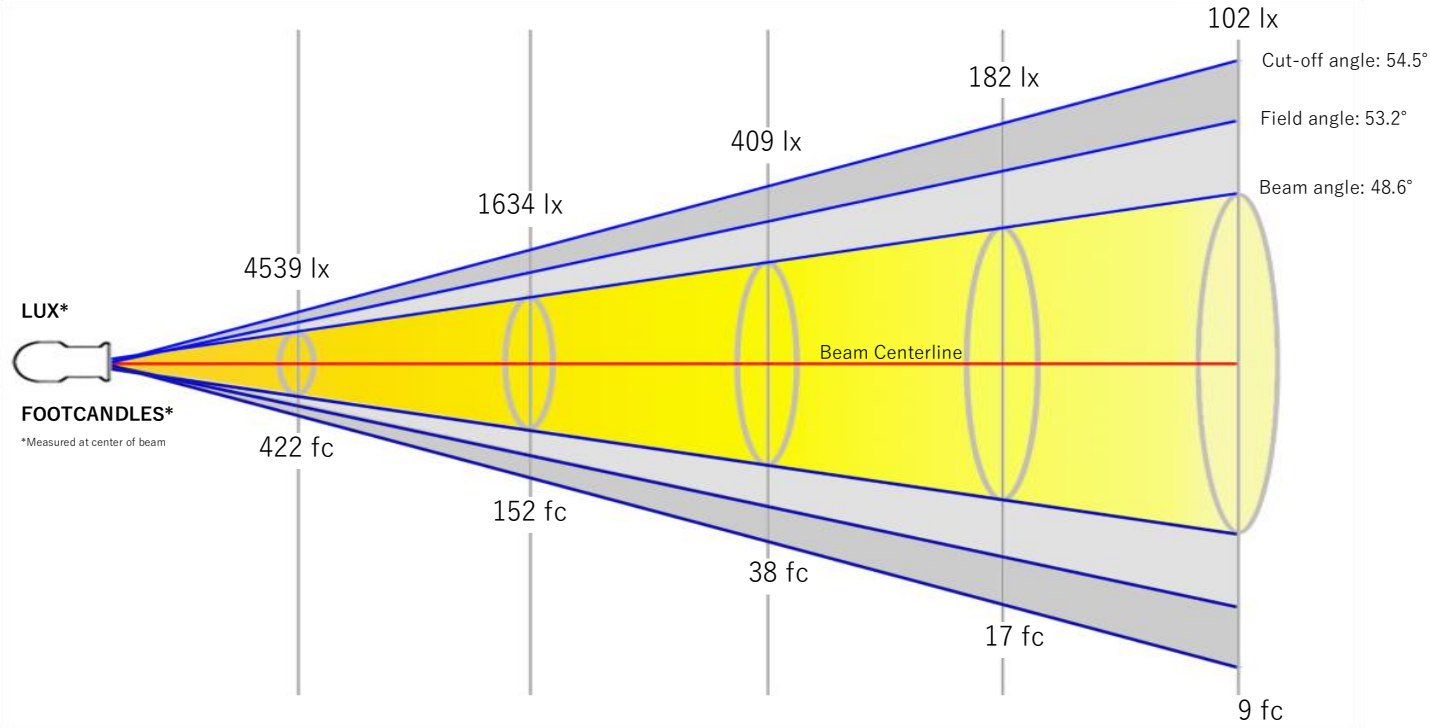
Power: 790 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.7 m	4.5 m	9 m	13.5 m	18.1 m



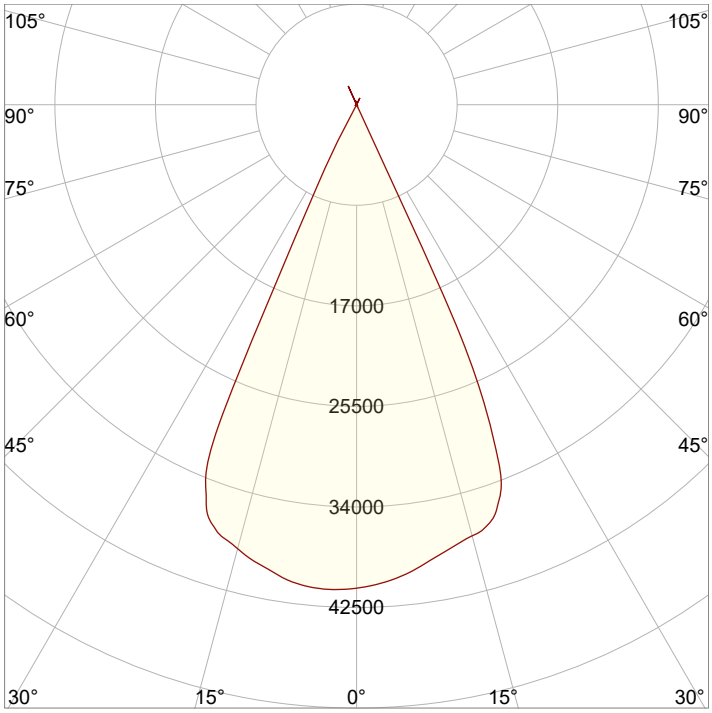
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	8.9 ft	14.8 ft	29.6 ft	44.4 ft	59.3 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	40851	10213	4539	2553	1634	1135	834	638	504	409	338	284	242	208	182	160	141	126	113	102
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	3795.2	948.8	421.7	237.2	151.8	105.4	77.5	59.3	46.9	38	31.4	26.4	22.5	19.4	16.9	14.8	13.1	11.7	10.5	9.5

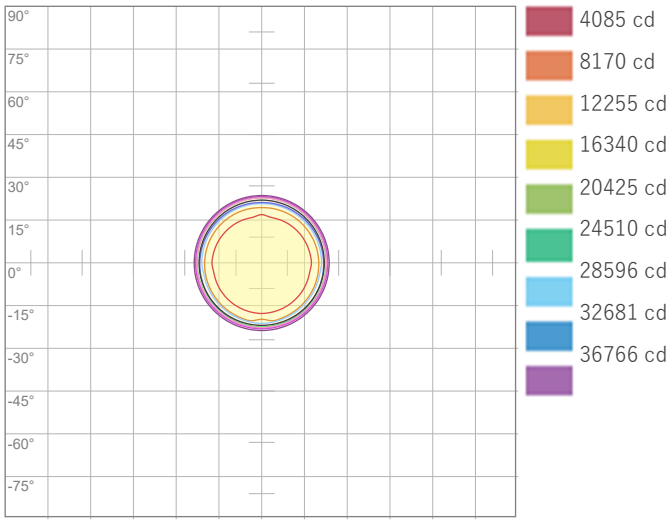
Measurement Date: 5/29/2024

Angular Distribution



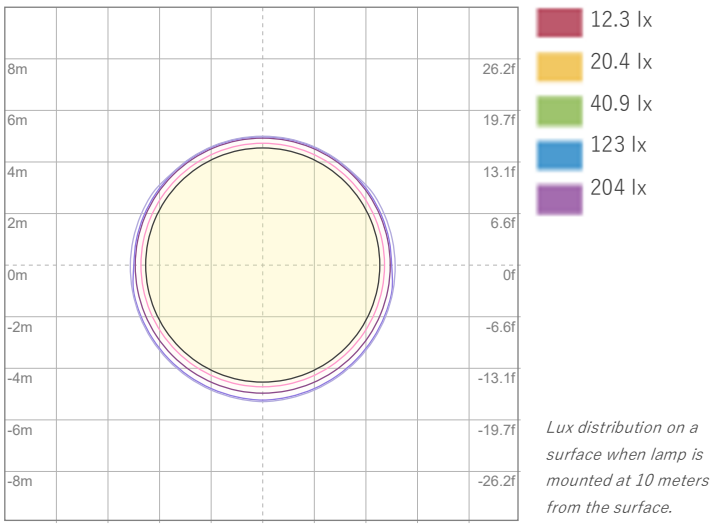
Beam Angle - 50%
48.6°
Field Angle - 10%
53.2°
Cutoff Angle - 2.5%
54.5°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 40851 cd

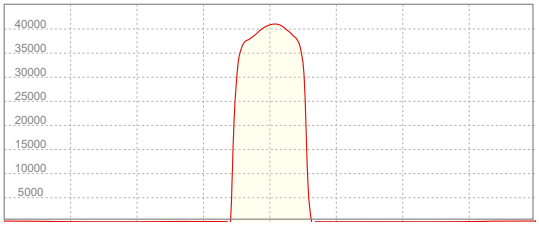


Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 409 lx

Linear Distribution



Peak Candela
41036 cd

Calculate Center Beam Intensities

lux = 41036 / distance(m)²
fc = 41036 / distance(ft)²

Measurement Date: 5/29/2024

Proteus Odeon (Zoom 50 Low CRI)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 20074 lm

Peak Intensity: 305528 cd

Beam

Beam Angle (50%): 17.1°

Field Angle (10%): 19.5°

Cutoff Angle (2.5%): 20.6°

Color

Color Temperature: 6520 K

CRI: 70.9

TLCI: 48

TM30 R_F: 69.8

TM30 R_g: 95.7

Power Details

Efficacy: 25 Lumen/Watt

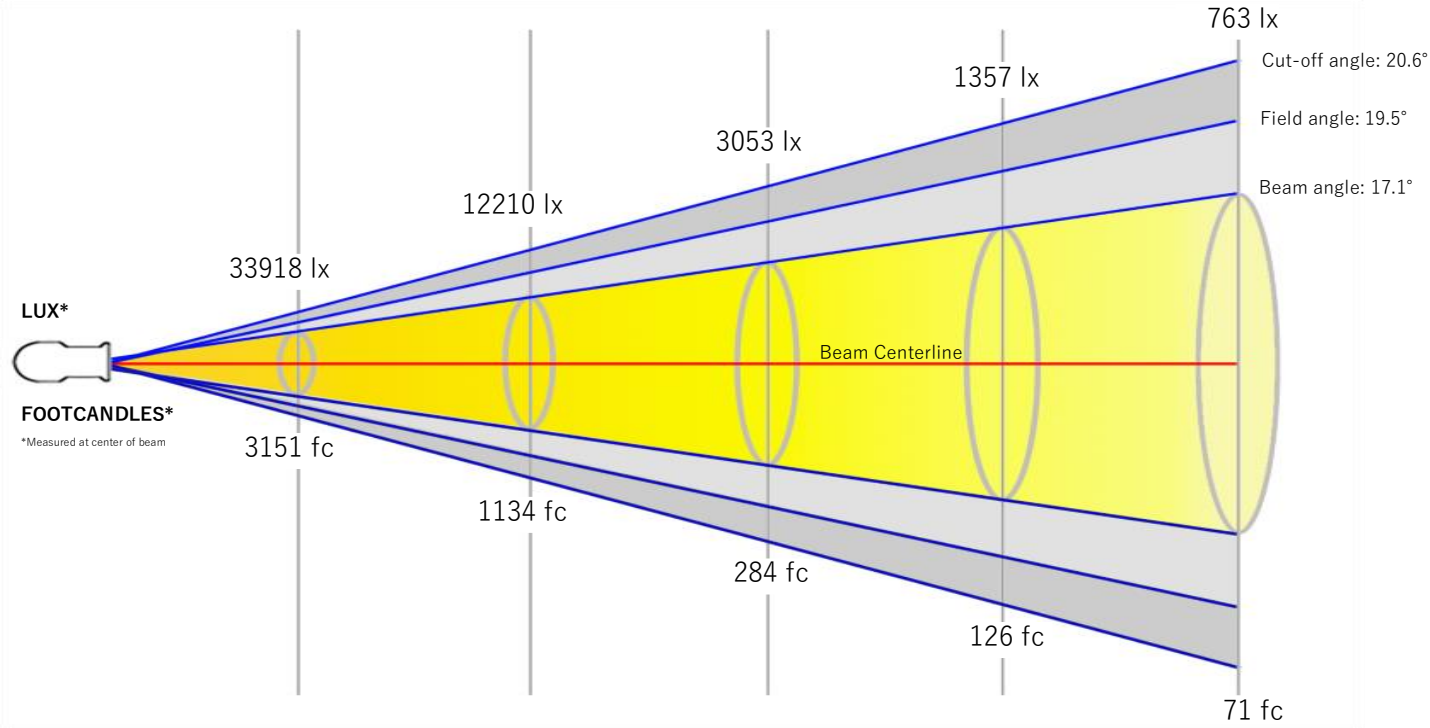
Power: 795 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.9 m	1.5 m	3 m	4.5 m	6 m



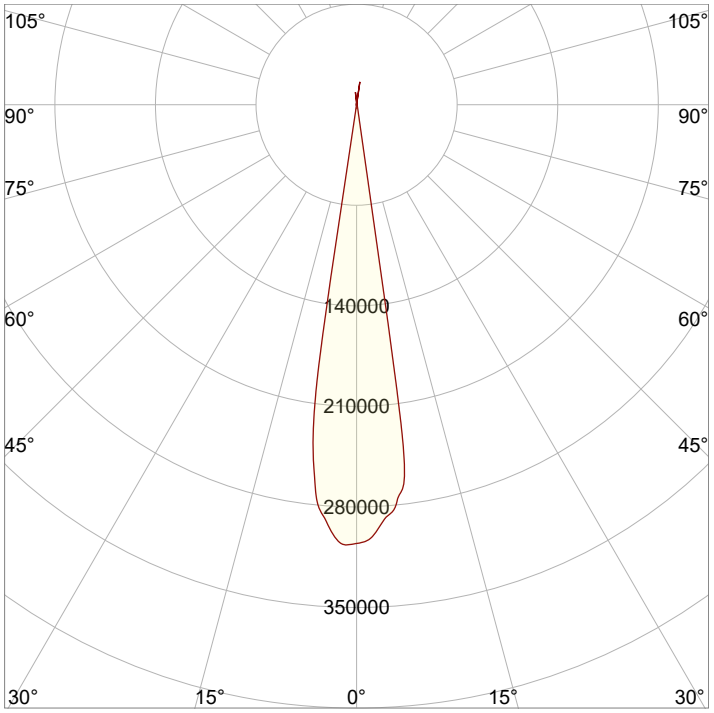
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3 ft	4.9 ft	9.9 ft	14.8 ft	19.8 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	305258	76315	33918	19079	12210	8479	6230	4770	3769	3053	2523	2120	1806	1557	1357	1192	1056	942	846	763
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	28359.4	7089.9	3151	1772.5	1134.4	787.8	578.8	443.1	350.1	283.6	234.4	196.9	167.8	144.7	126	110.8	98.1	87.5	78.6	70.9

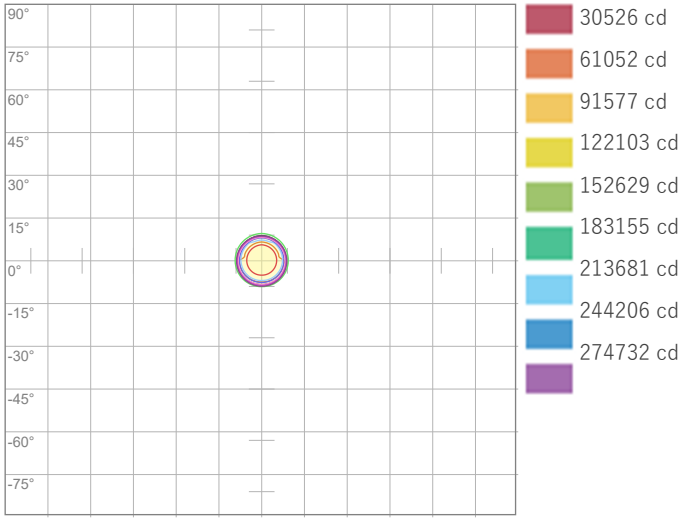
Measurement Date: 5/30/2024

Angular Distribution



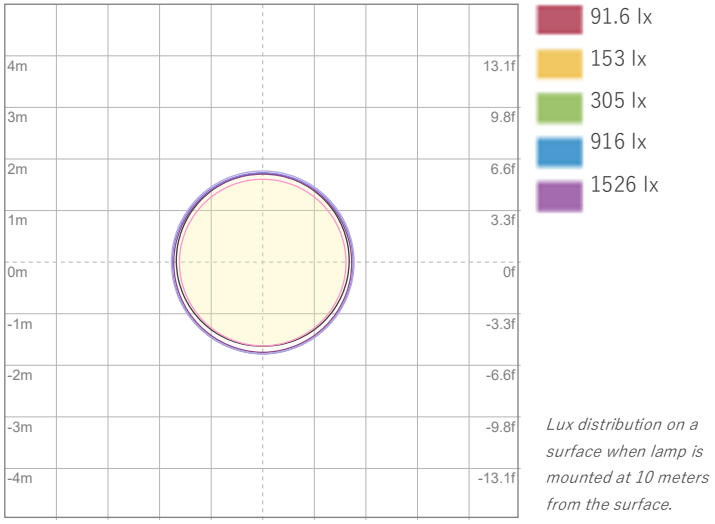
Beam Angle - 50%
17.1°
Field Angle - 10%
19.5°
Cutoff Angle - 2.5%
20.6°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 305258 cd



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

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 3053 lx

Linear Distribution

Peak Candela
305528 cd

Calculate Center Beam Intensities

lux = 305528 / distance(m)²
fc = 305528 / distance(ft)²

Measurement Date: 5/30/2024

Proteus Odeon (Zoom Narrow Low CRI)

Key Measurements

Output

Total Lumen Output: 9926 lm

Peak Intensity: 1709507 cd

Beam

Beam Angle (50%): 4.8°

Field Angle (10%): 6.5°

Cutoff Angle (2.5%): 6.9°

Color

Color Temperature: 6684 K

CRI: 71.0

TLCI: 48

TM30 R_F: 69.4

TM30 R_g: 96.2

Power Details

Efficacy: 13 Lumen/Watt

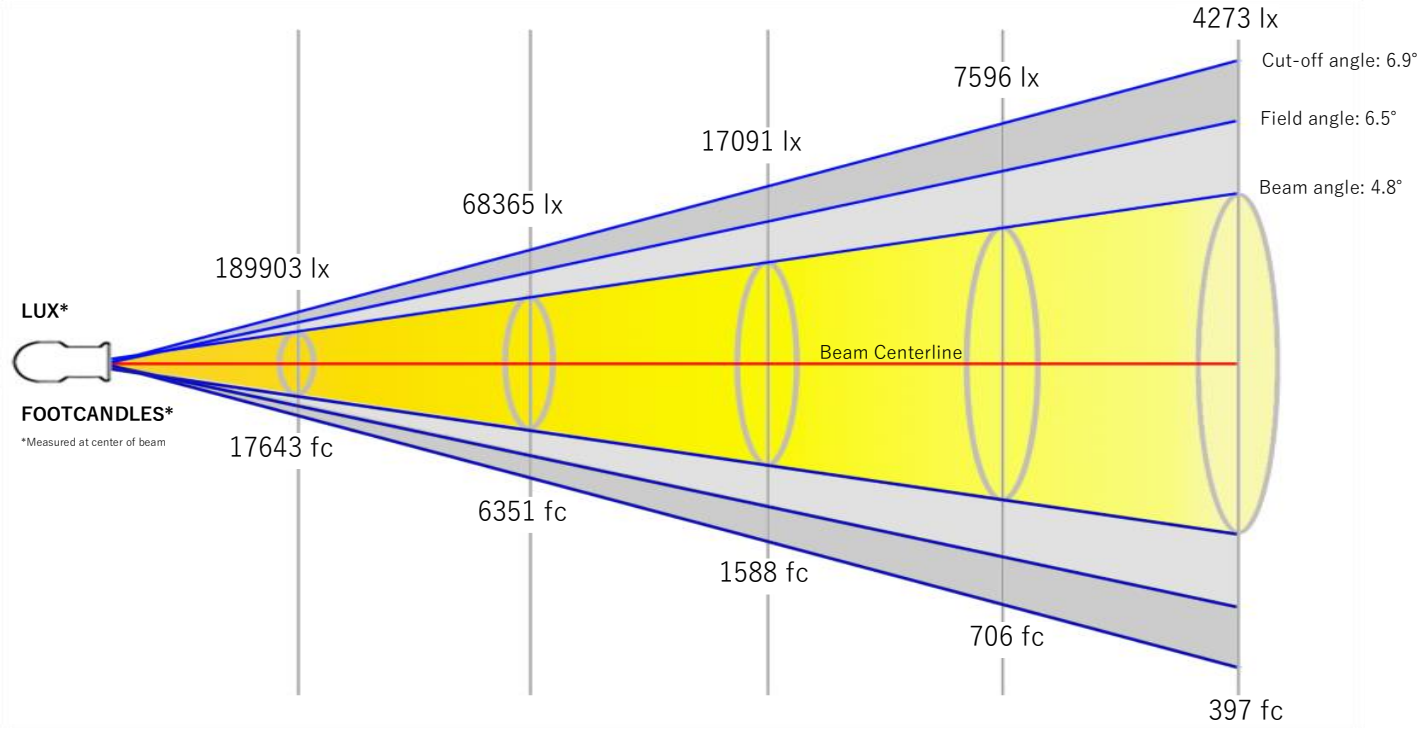
Power: 794 W

Supply Voltage: 120 V

Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.2 m	0.4 m	0.8 m	1.2 m	1.7 m



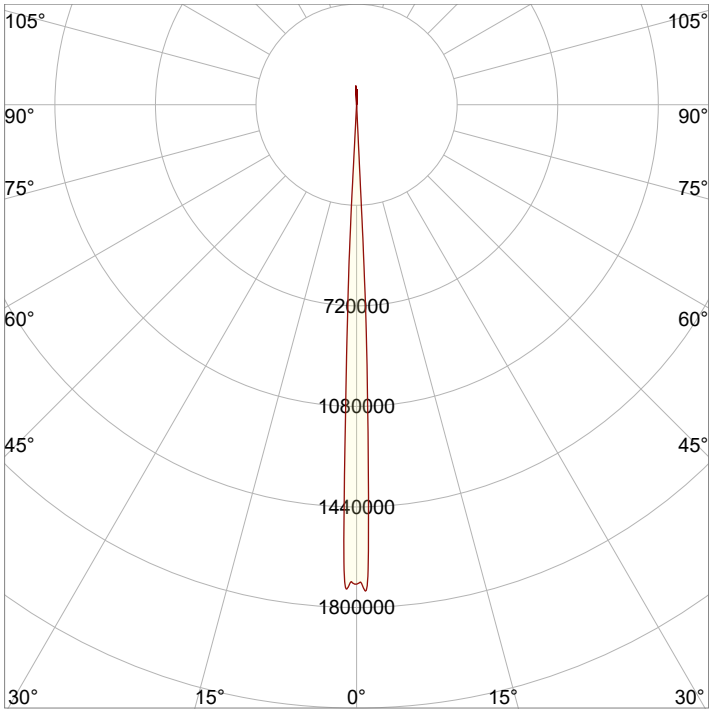
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	0.8 ft	1.4 ft	2.7 ft	4.1 ft	5.5 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	1709127	427282	189903	106820	68365	47476	34880	26705	21100	17091	14125	11869	10113	8720	7596	6676	5914	5275	4734	4273
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	158783.1	39695.8	17642.6	9923.9	6351.3	4410.6	3240.5	2481	1960.3	1587.8	1312.3	1102.7	939.5	810.1	705.7	620.2	549.4	490.1	439.8	397

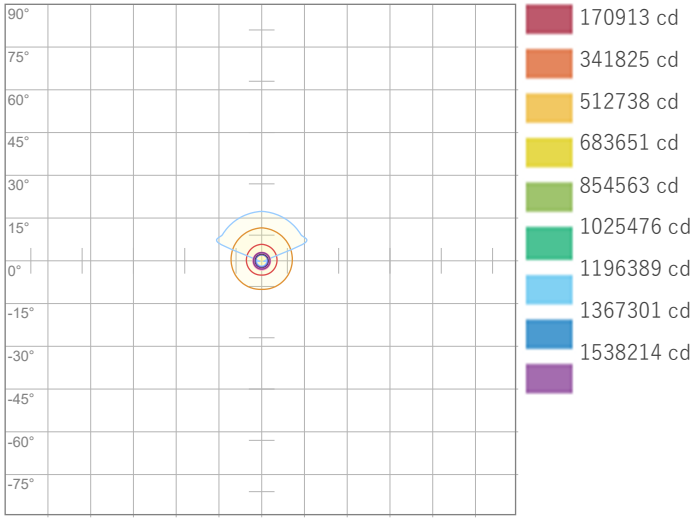
Measurement Date: 5/30/2024

Angular Distribution



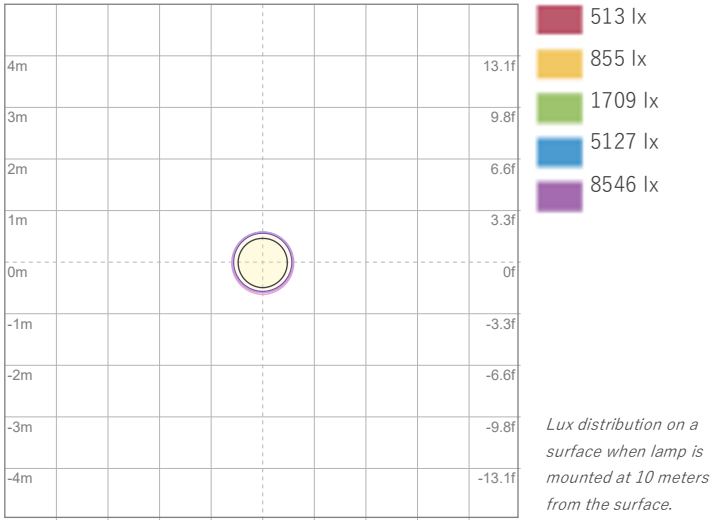
Beam Angle - 50%
4.8°
Field Angle - 10%
6.5°
Cutoff Angle - 2.5%
6.9°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 1709127 cd

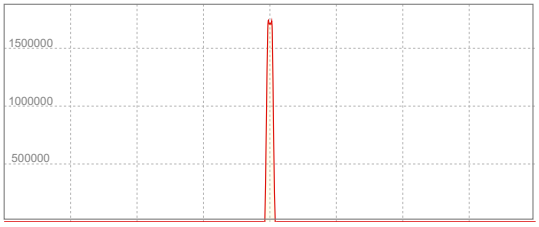


Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 17.1K lx

Linear Distribution



Peak Candela
1709507 cd

Calculate Center Beam Intensities

lux = 1709507 / distance(m)²
fc = 1709507 / distance(ft)²

Measurement Date: 5/30/2024

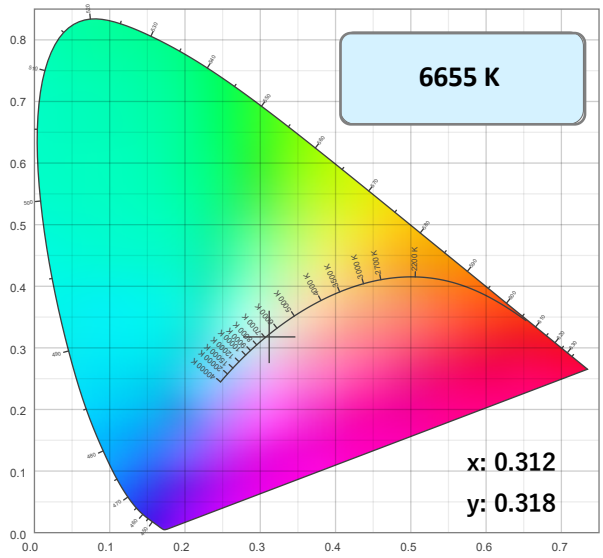
Proteus Odeon (Zoom 50)

Color Temperature: 6655K

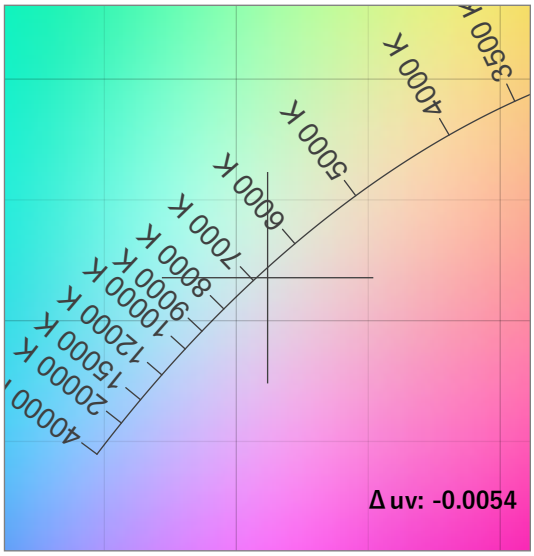
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate-CIE 1931	Color Coordinate-CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δ uv	SSIt	SSId
80.6	22.5	79.0	97.8	68	76.9	0.312	0.318	-0.0054	19	59

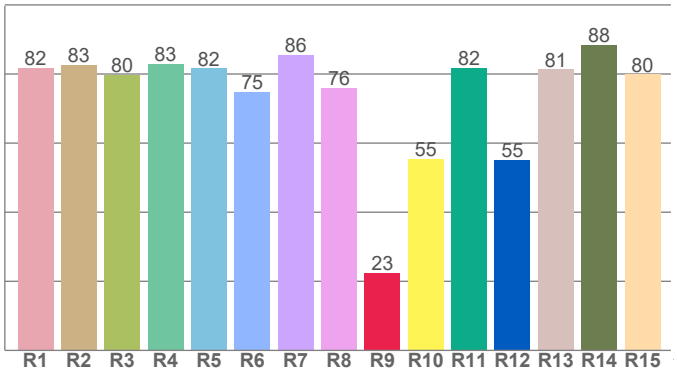
CIE 1931



CIE 1931 ZOOMED

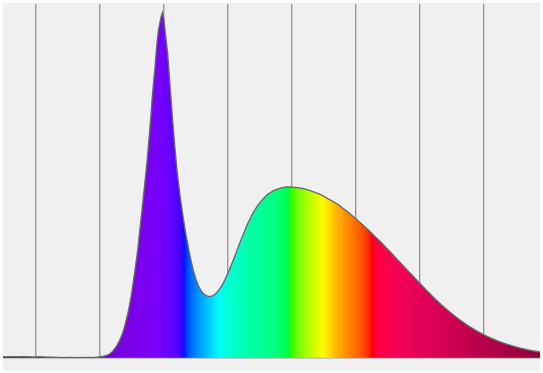


CRI: 80.6 (R1-R8)



Spectral Power Distribution (SPD)

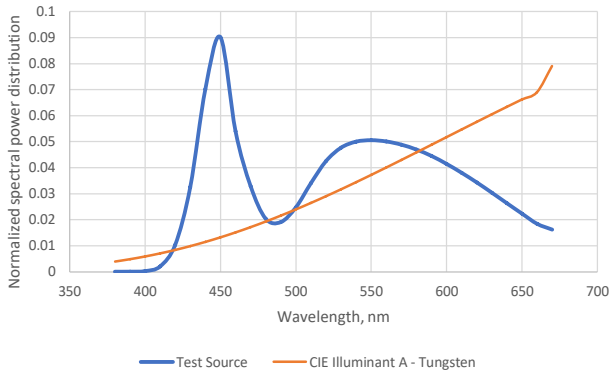
Dominant Wavelength 360 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 19

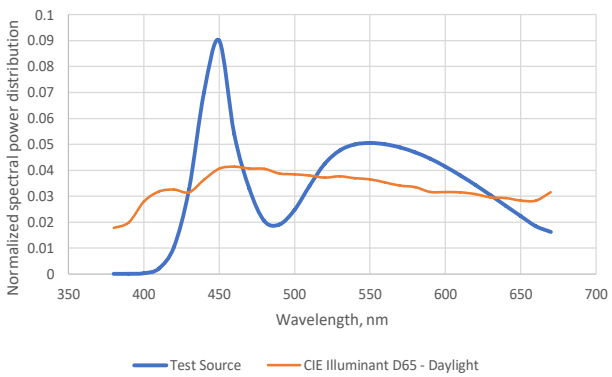
Spectral variance



SSI Spectral Variance Graph- Daylight

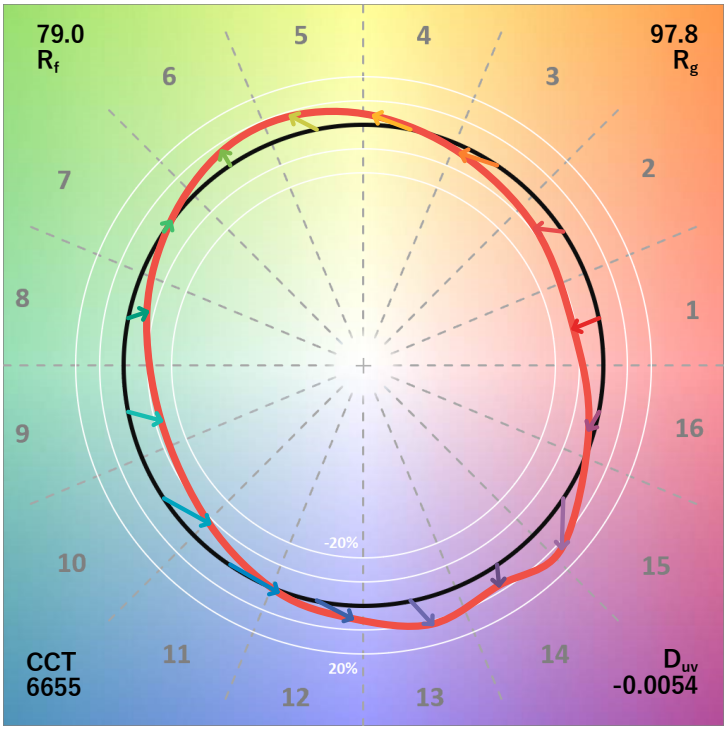
SSI [CIE D65] 59

Spectral variance

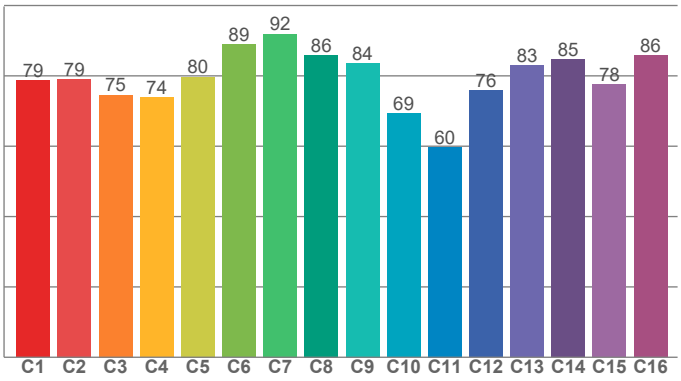


Measurement Date: 5/29/2024

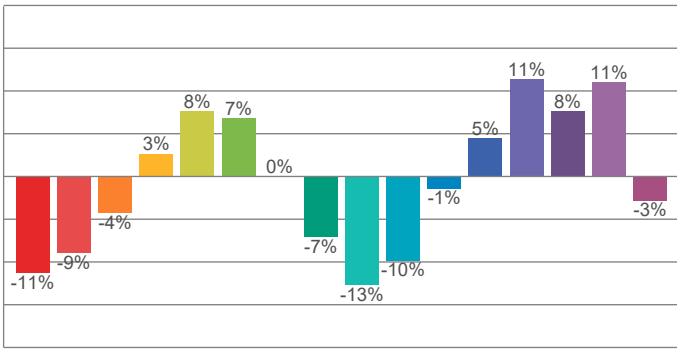
Proteus Odeon (Zoom 50)



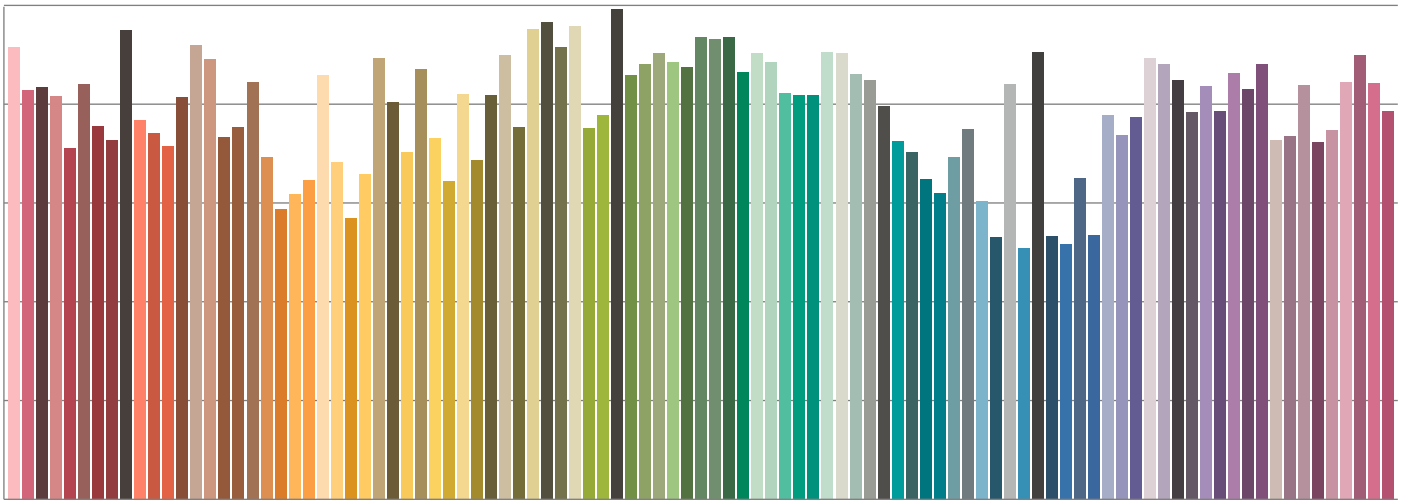
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



Measurement Date: 5/29/2024

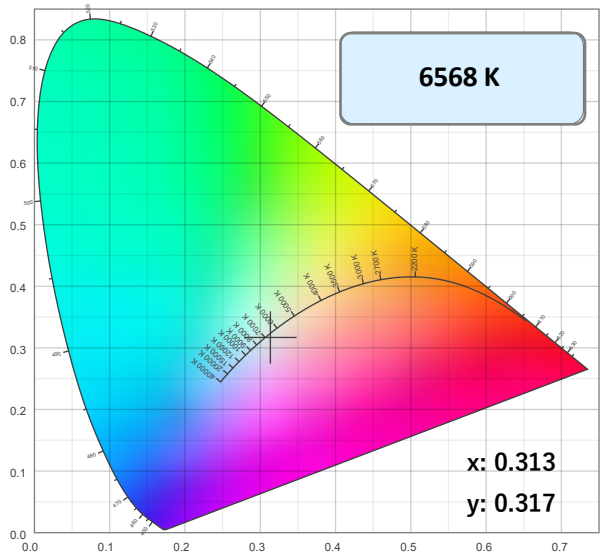
Proteus Odeon (Zoom 50 High CRI)

Color Temperature: 6568K

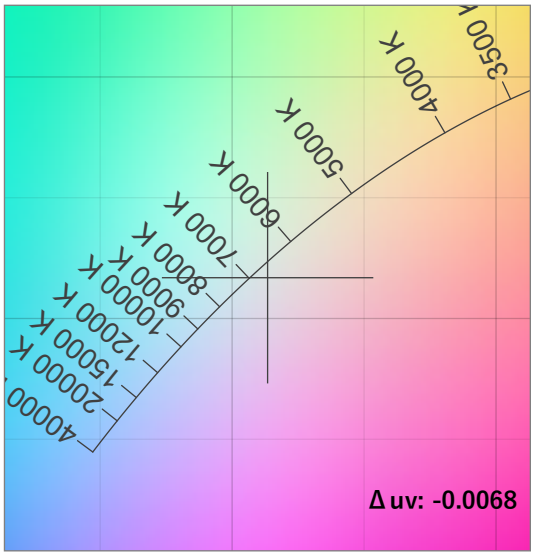
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate-CIE 1931	Color Coordinate-CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δ uv	SSIt	SSId
92.8	77.1	88.8	100.1	92	87.8	0.313	0.317	-0.0068	27	65

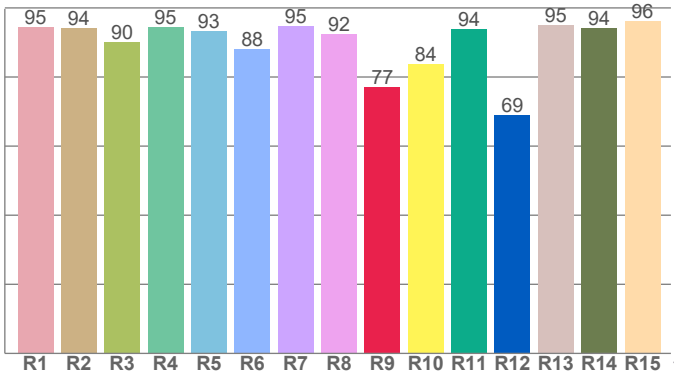
CIE 1931



CIE 1931 ZOOMED

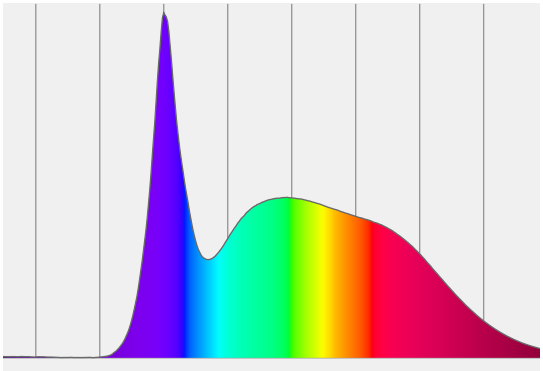


CRI: 92.8 (R1-R8)



Spectral Power Distribution (SPD)

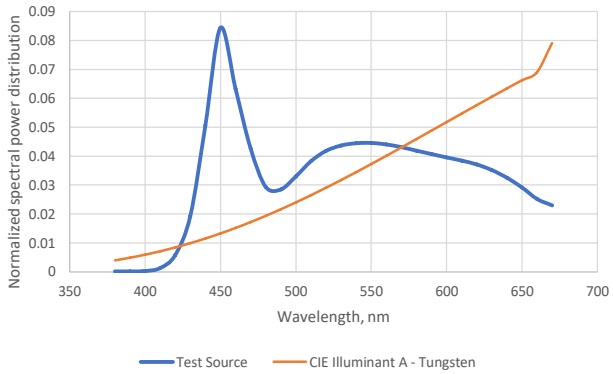
Dominant Wavelength 360 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 27

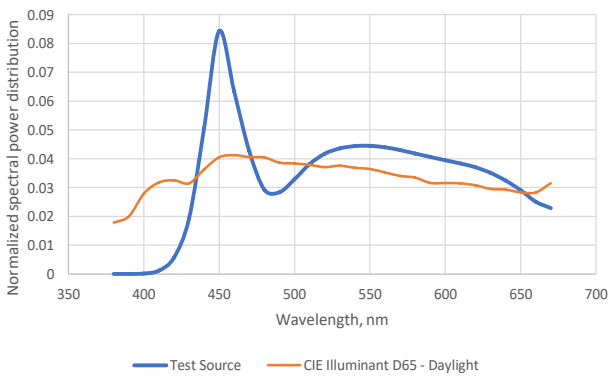
Spectral variance



SSI Spectral Variance Graph- Daylight

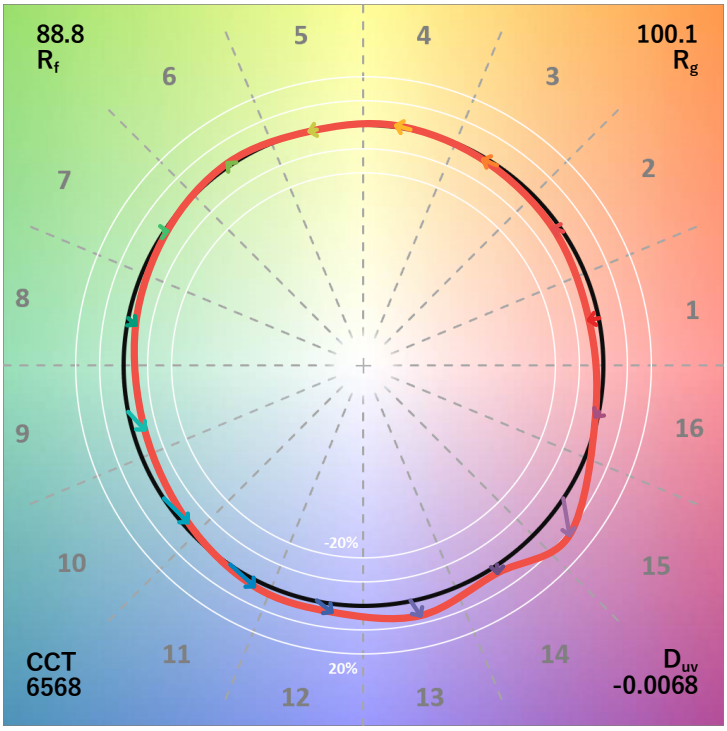
SSI [CIE D65] 65

Spectral variance

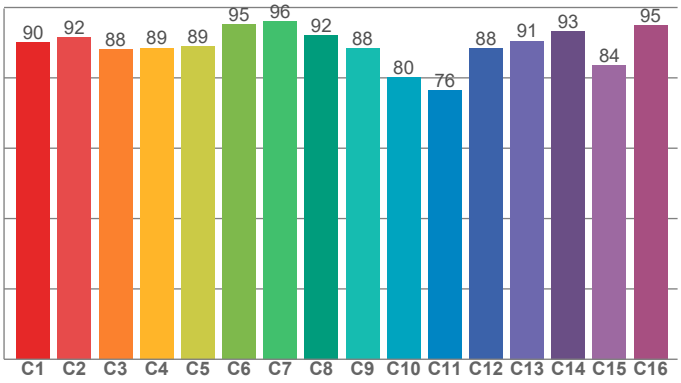


Measurement Date: 5/30/2024

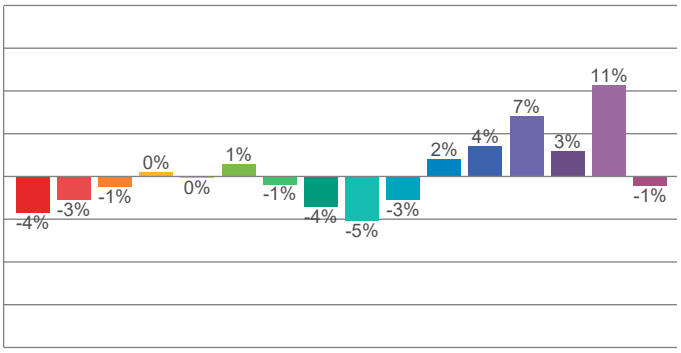
Proteus Odeon (Zoom 50 High CRI)



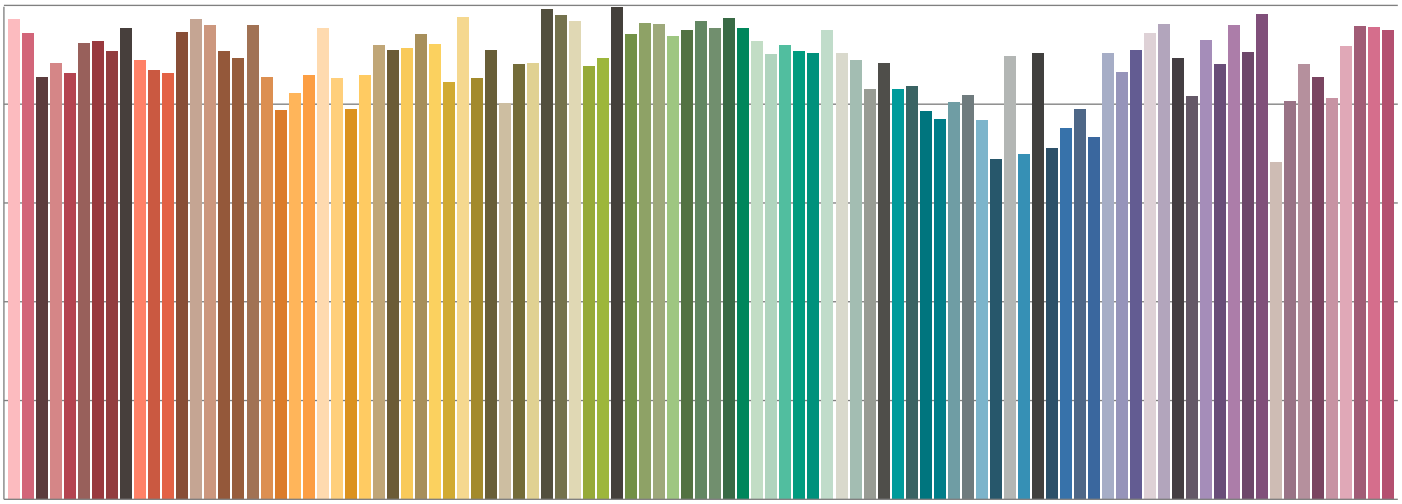
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



Measurement Date: 5/30/2024

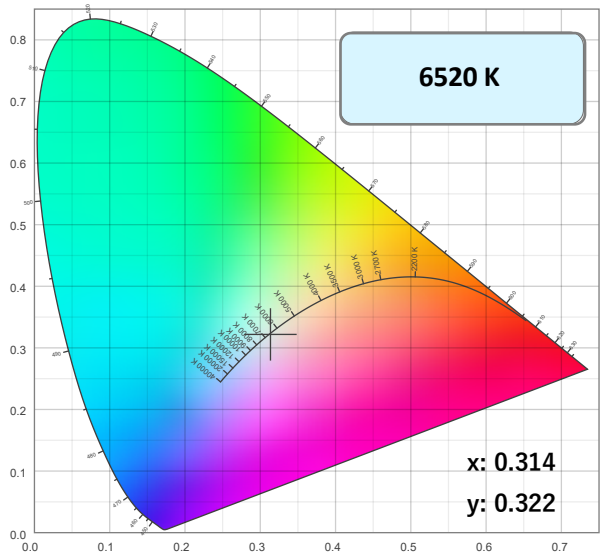
Proteus Odeon (Zoom 50 Low CRI)

Color Temperature: 6520K

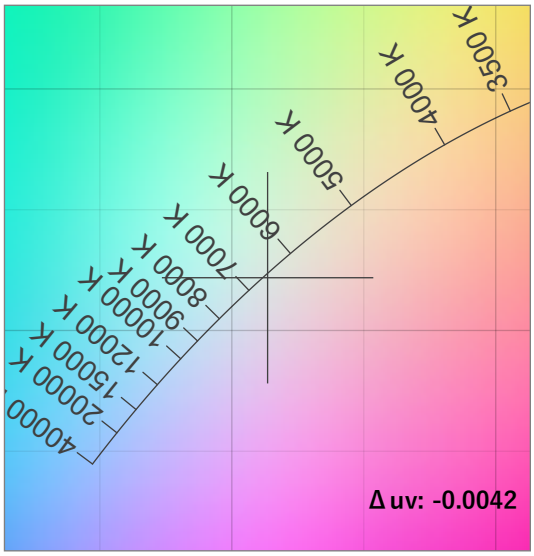
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate-CIE 1931	Color Coordinate-CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δ uv	SSIt	SSId
70.9	-20.7	69.8	95.7	48	68.5	0.314	0.322	-0.0042	7	48

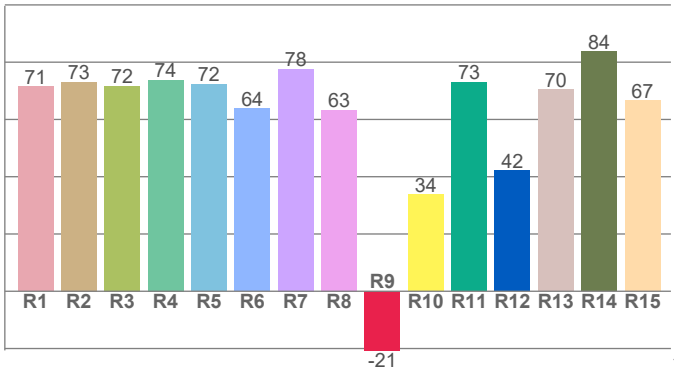
CIE 1931



CIE 1931 ZOOMED

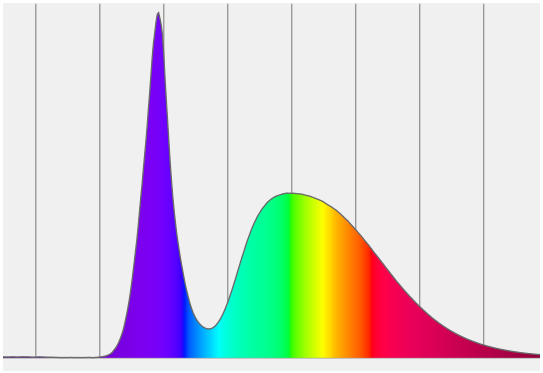


CRI: 70.9 (R1-R8)



Spectral Power Distribution (SPD)

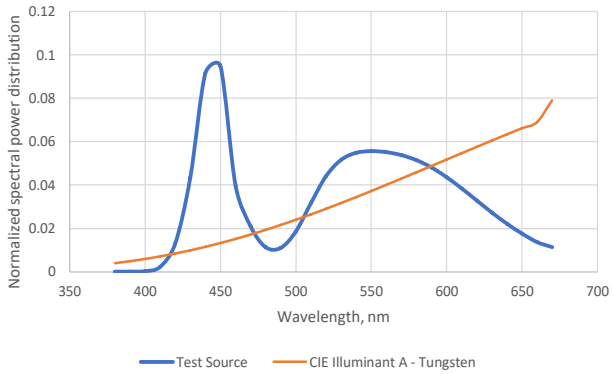
Dominant Wavelength 360 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 7

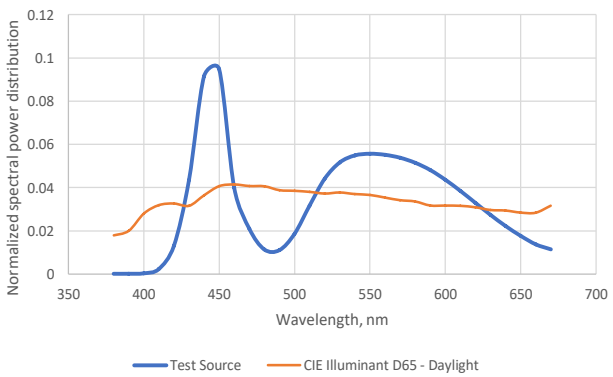
Spectral variance



SSI Spectral Variance Graph- Daylight

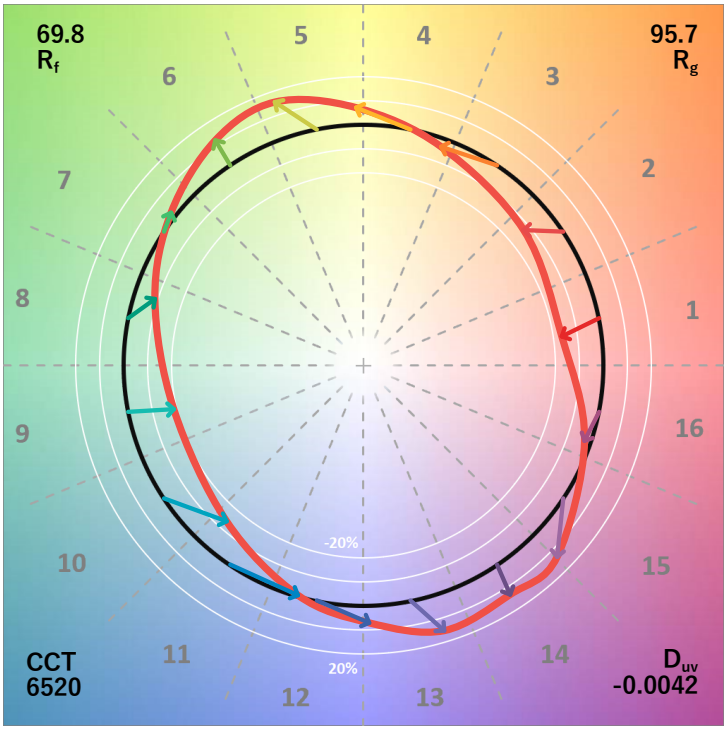
SSI [CIE D65] 48

Spectral variance

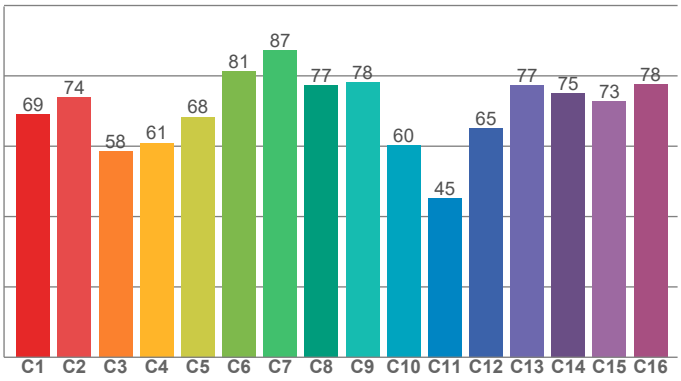


Measurement Date: 5/30/2024

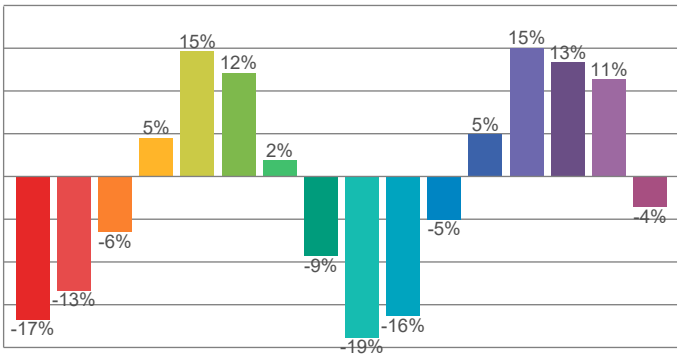
Proteus Odeon (Zoom 50 Low CRI)



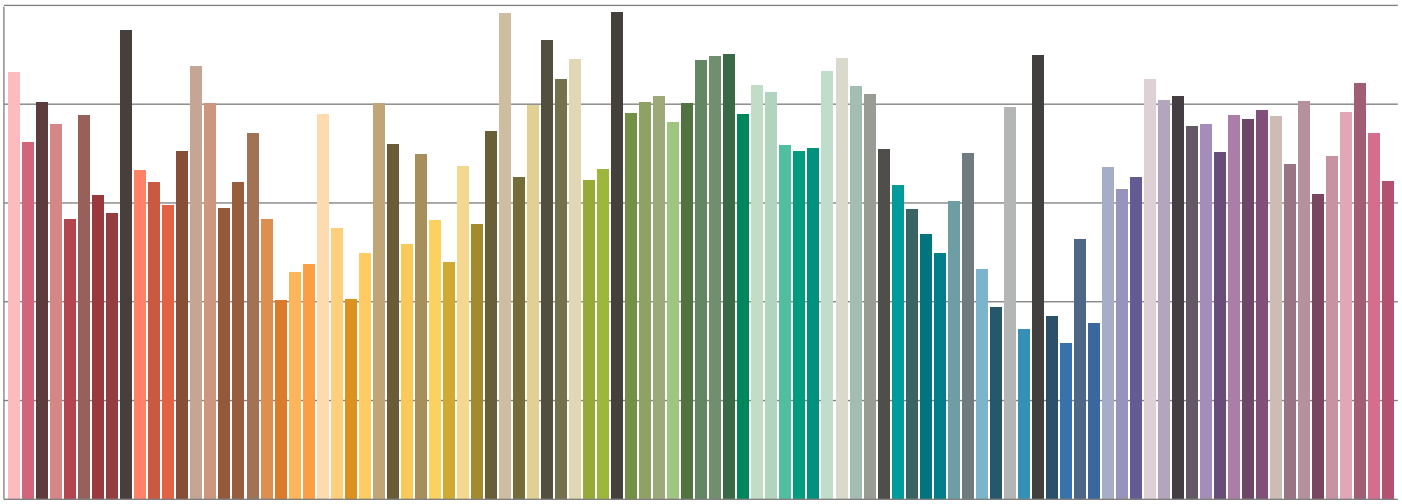
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



Measurement Date: 5/30/2024

Proteus Odeon (Zoom 50 CTO)

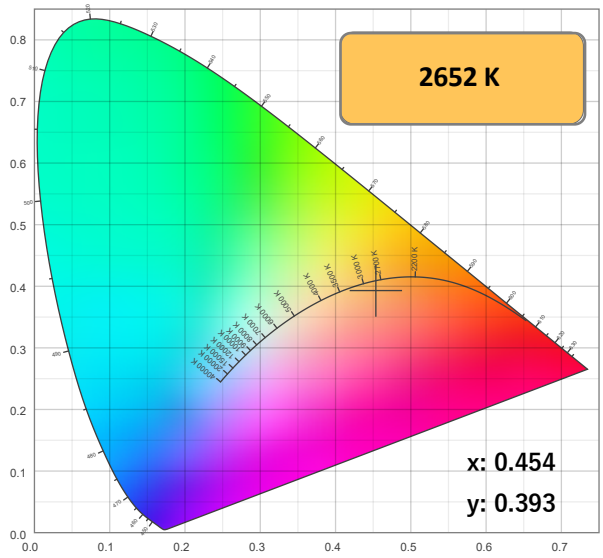
Prepared For ELATION PROFESSIONAL

Color Temperature: 2652K

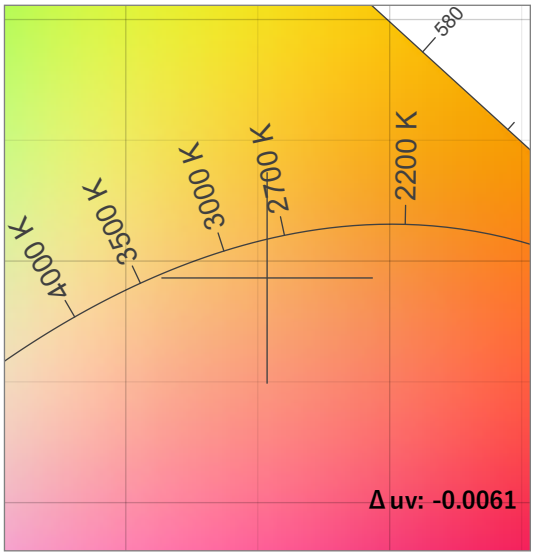
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate-CIE 1931	Color Coordinate-CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δ uv	SSIt	SSId
69.5	-2.2	68.1	97.3	36	65.1	0.454	0.393	-0.0061	64	32

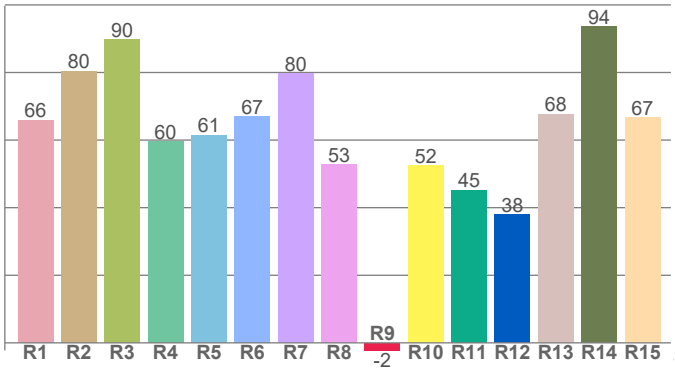
CIE 1931



CIE 1931 ZOOMED

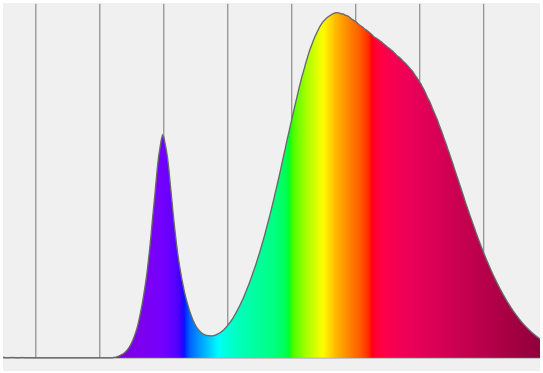


CRI: 69.5 (R1-R8)



Spectral Power Distribution (SPD)

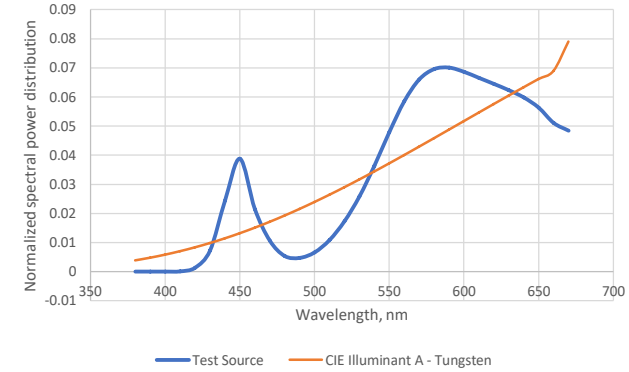
Dominant Wavelength 587 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 64

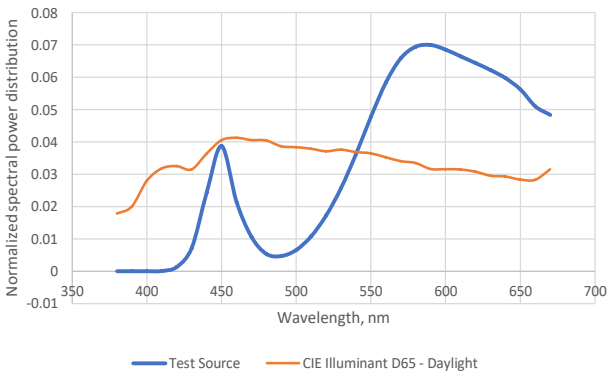
Spectral variance



SSI Spectral Variance Graph- Daylight

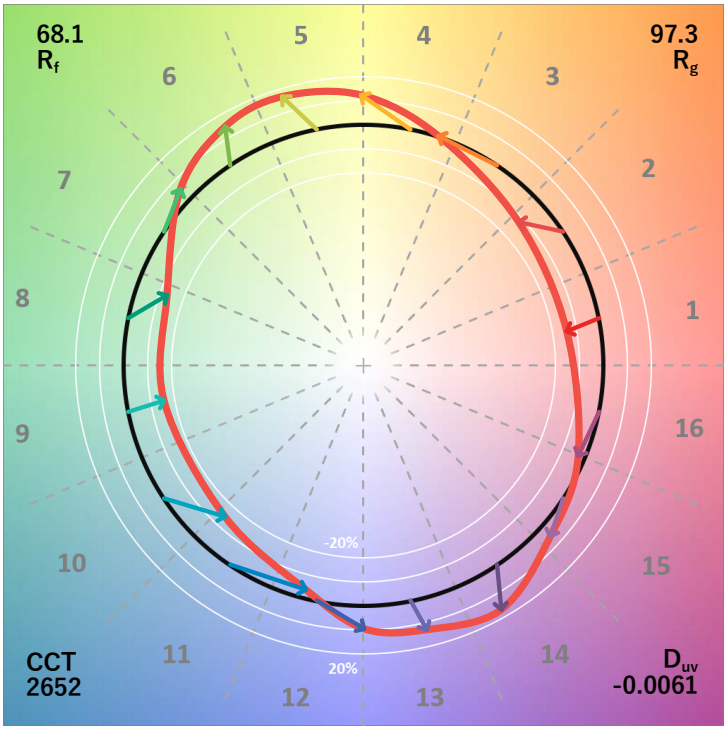
SSI [CIE D65] 32

Spectral variance

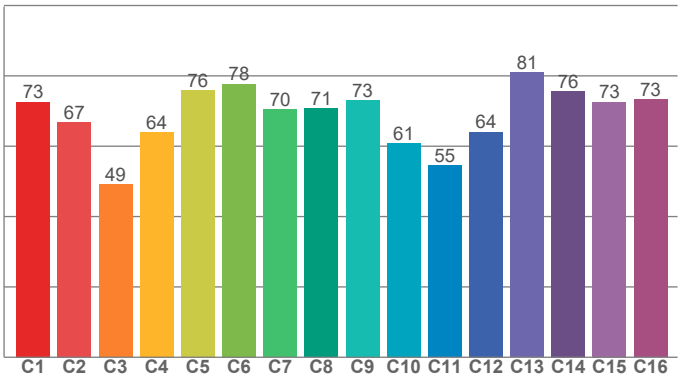


Measurement Date: 5/30/2024

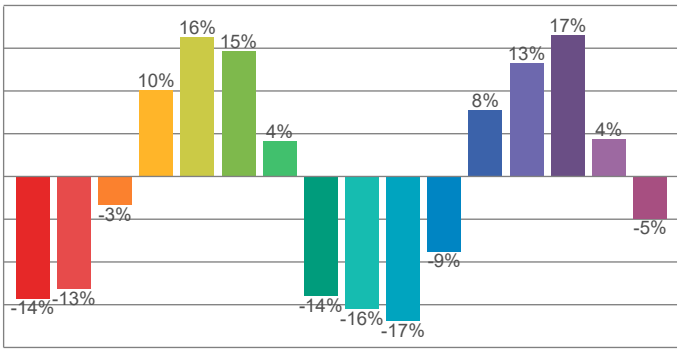
Proteus Odeon (Zoom 50 CTO)



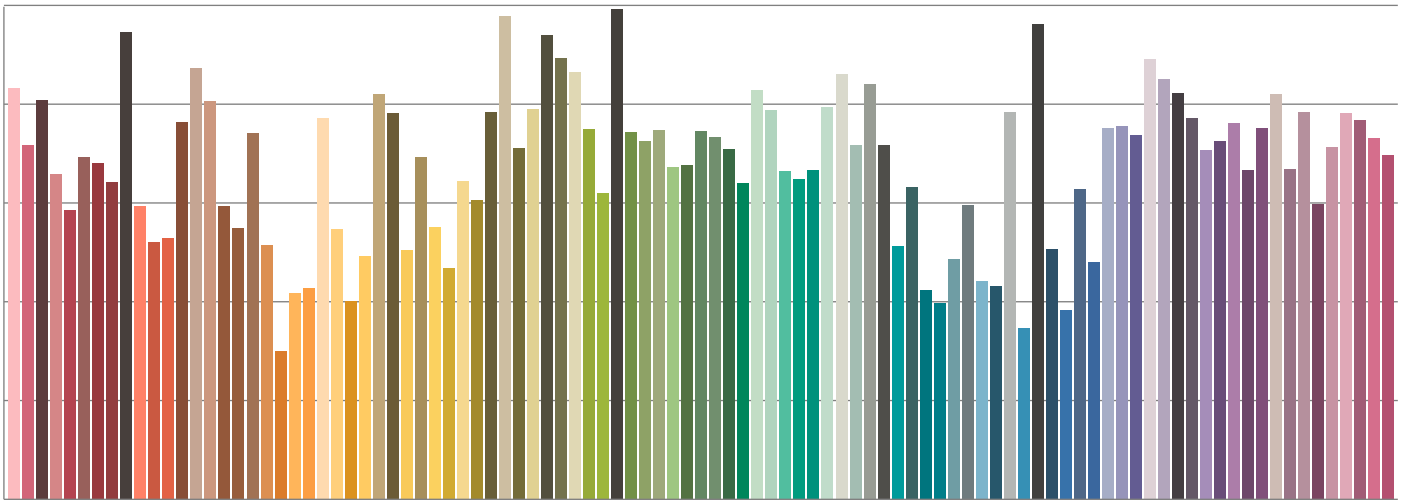
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



Measurement Date: 5/30/2024

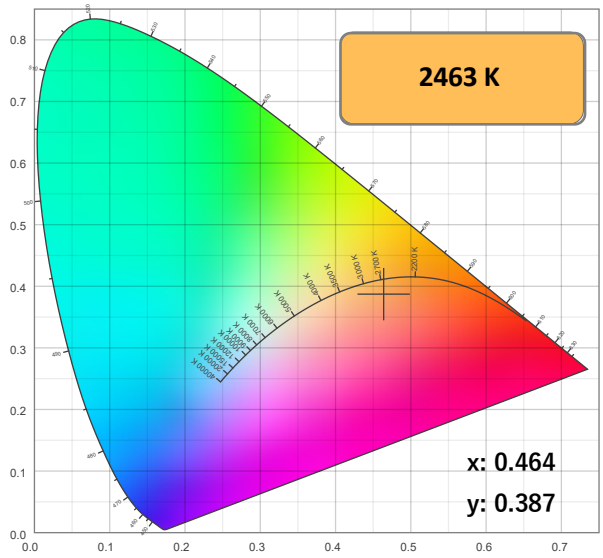
Proteus Odeon (Zoom 50 High CRI+CTO)

Color Temperature: 2463K

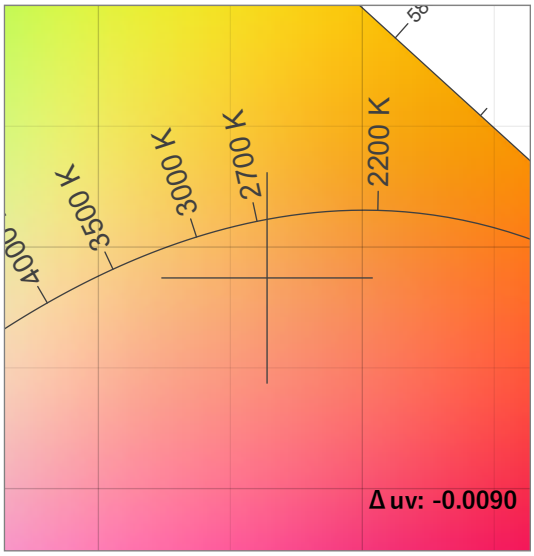
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate-CIE 1931	Color Coordinate-CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δ uv	SSIt	SSId
78.9	37.0	74.5	103.0	49	70.6	0.464	0.387	-0.0090	71	31

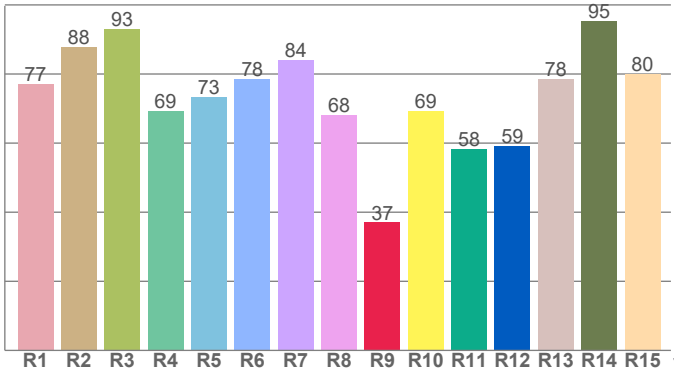
CIE 1931



CIE 1931 ZOOMED

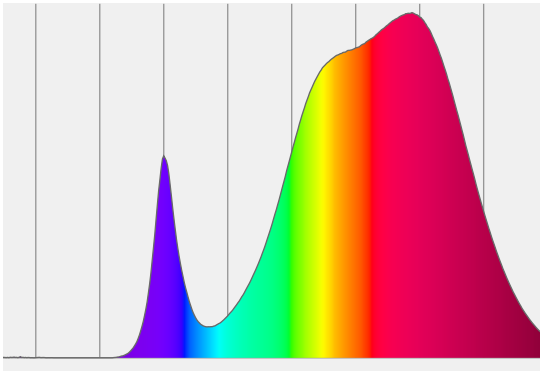


CRI: 78.9 (R1-R8)



Spectral Power Distribution (SPD)

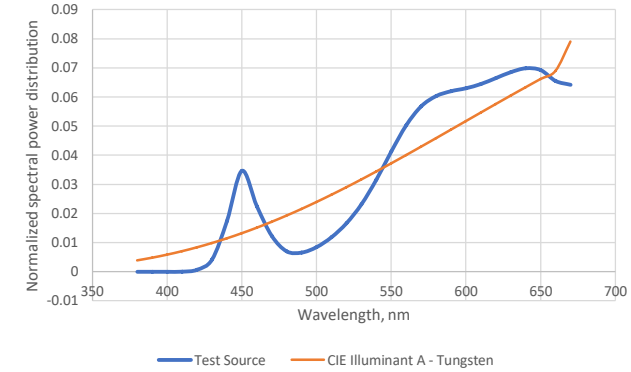
Dominant Wavelength 589 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 71

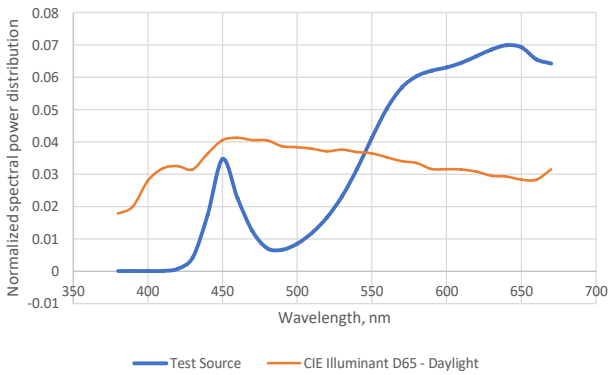
Spectral variance



SSI Spectral Variance Graph- Daylight

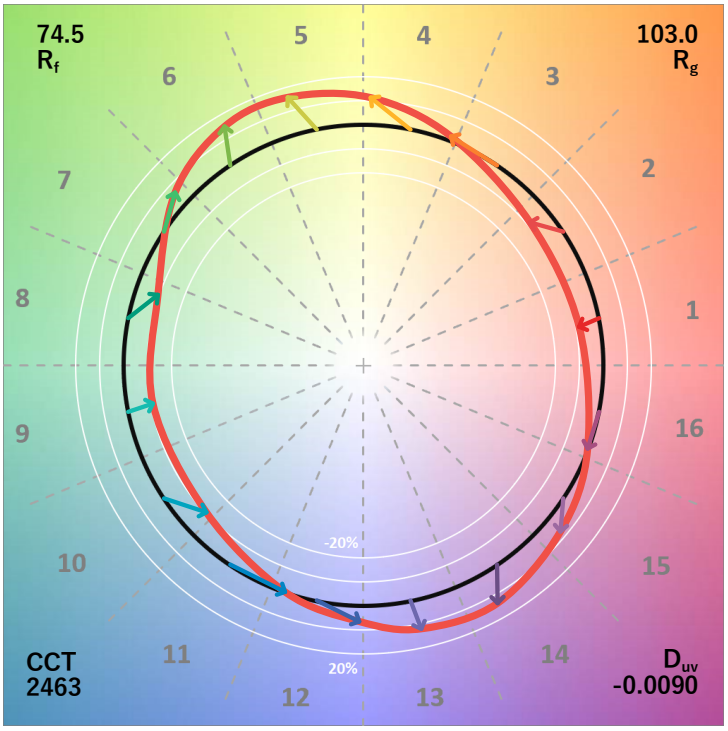
SSI [CIE D65] 31

Spectral variance

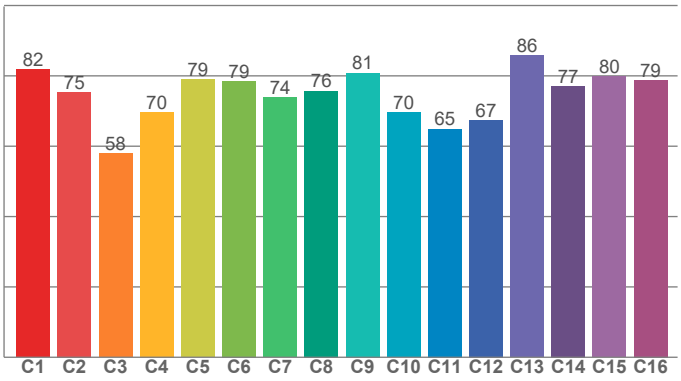


Measurement Date: 5/30/2024

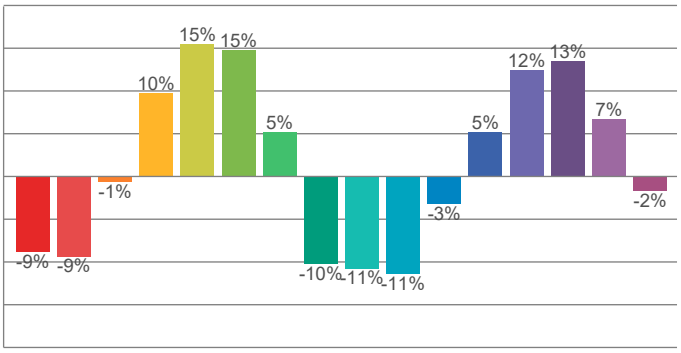
Proteus Odeon (Zoom 50 High CRI+CTO)



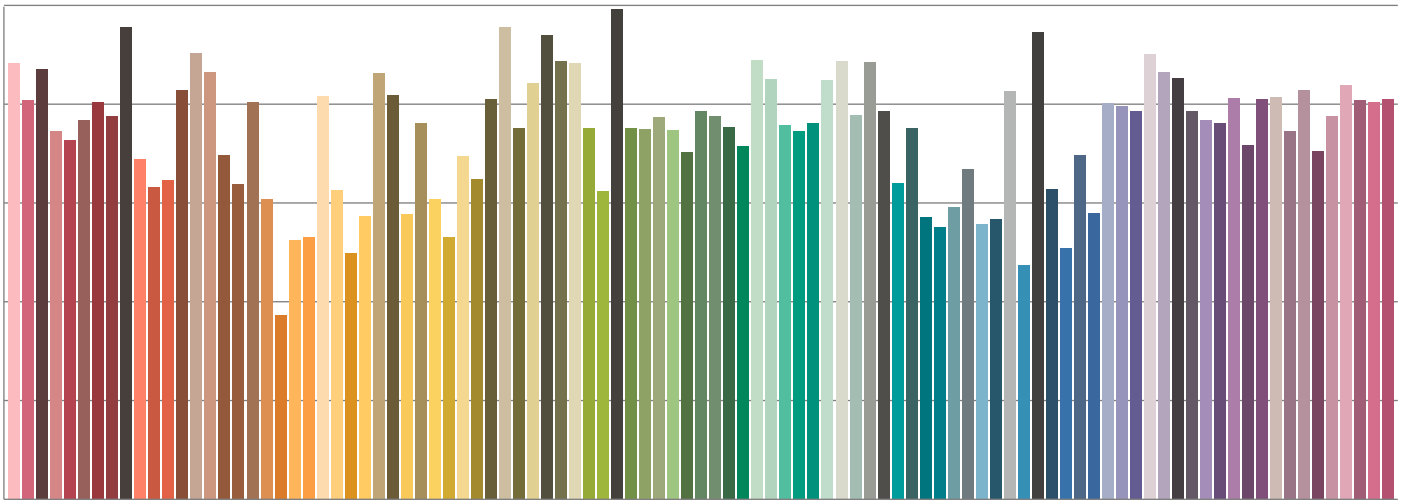
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



Measurement Date: 5/30/2024

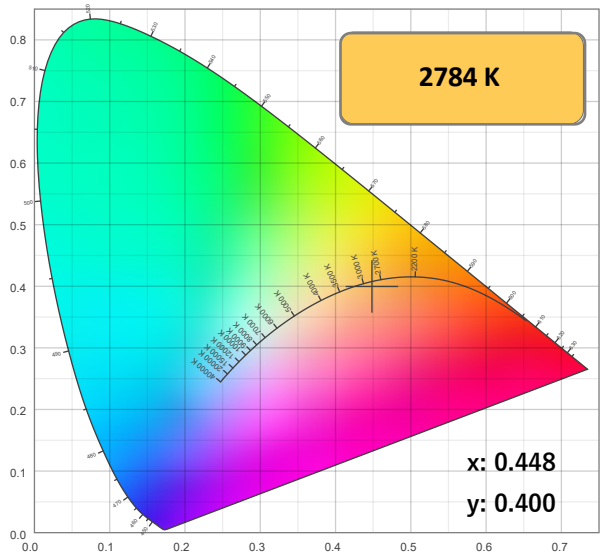
Proteus Odeon (Zoom 50 Low CRI+CTO)

Color Temperature: 2784K

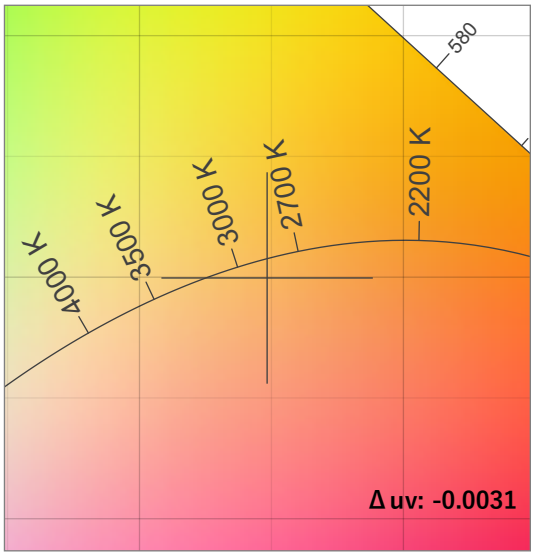
Accuracy Metric Overview

Color Rendering Index	Color Rendering Index, R9 (Red Component)	TM-30 Color Fidelity	TM-30 Color Gamut	Television Lighting Consistency Index	Color Quality Scale	Color Coordinate-CIE 1931	Color Coordinate-CIE 1931	Deviation from Black Body	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δ uv	SSIt	SSId
62.6	-34.2	62.7	93.7	29	60.3	0.448	0.400	-0.0031	55	30

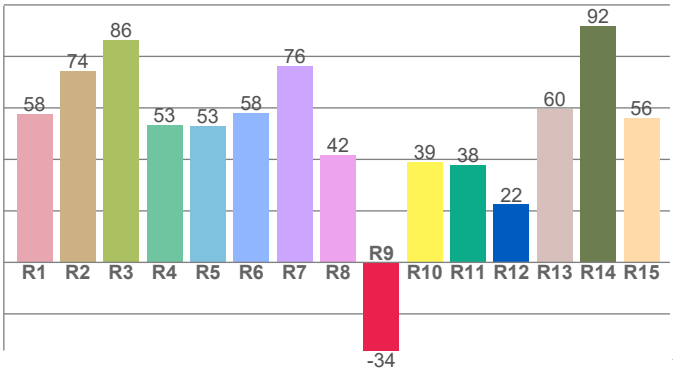
CIE 1931



CIE 1931 ZOOMED

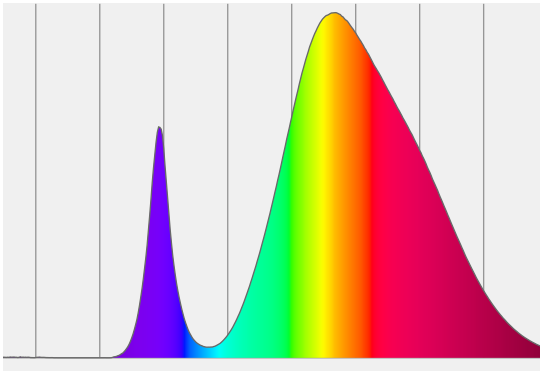


CRI: 62.6 (R1-R8)



Spectral Power Distribution (SPD)

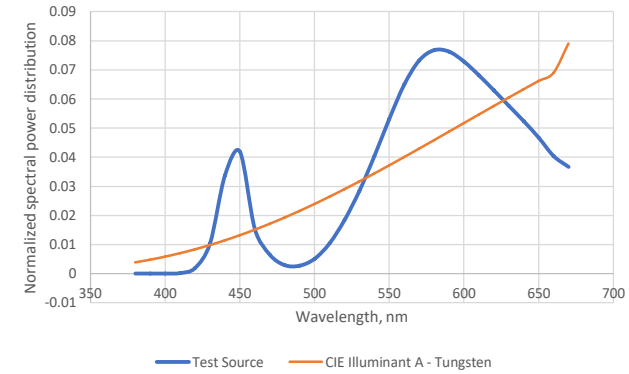
Dominant Wavelength 585 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 55

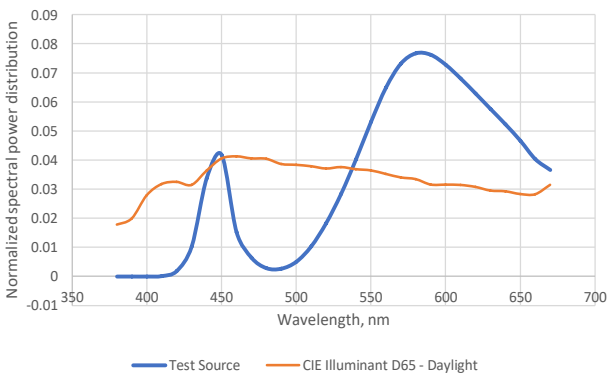
Spectral variance



SSI Spectral Variance Graph- Daylight

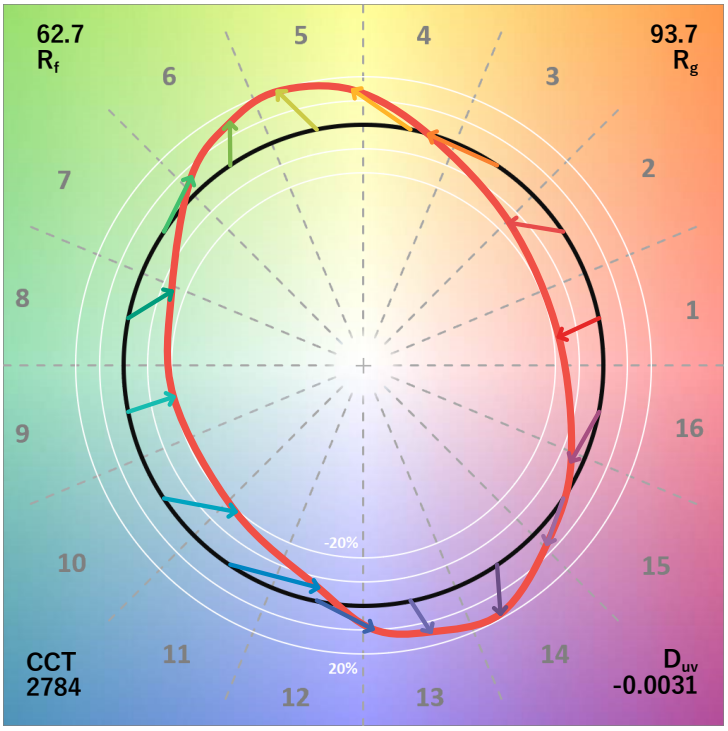
SSI [CIE D65] 30

Spectral variance

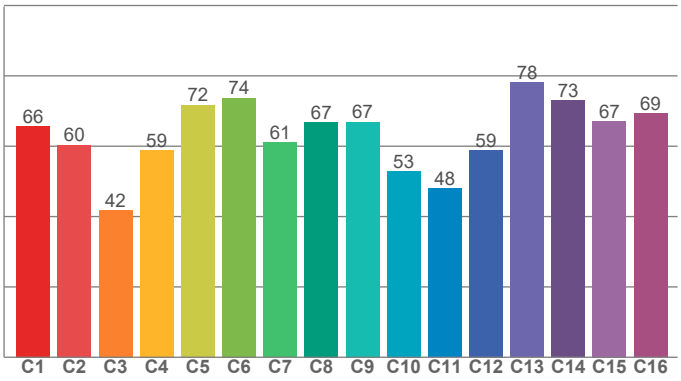


Measurement Date: 5/30/2024

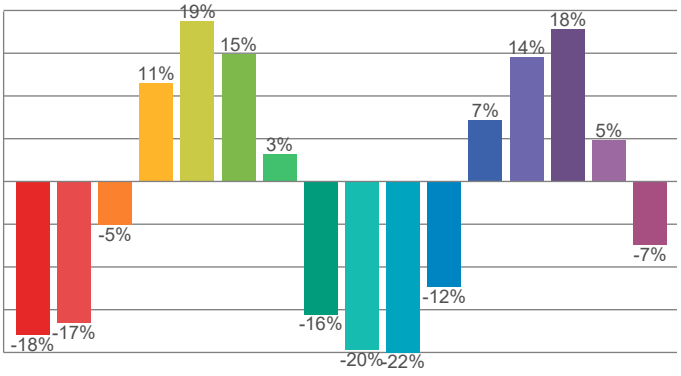
Proteus Odeon (Zoom 50 Low CRI+CTO)



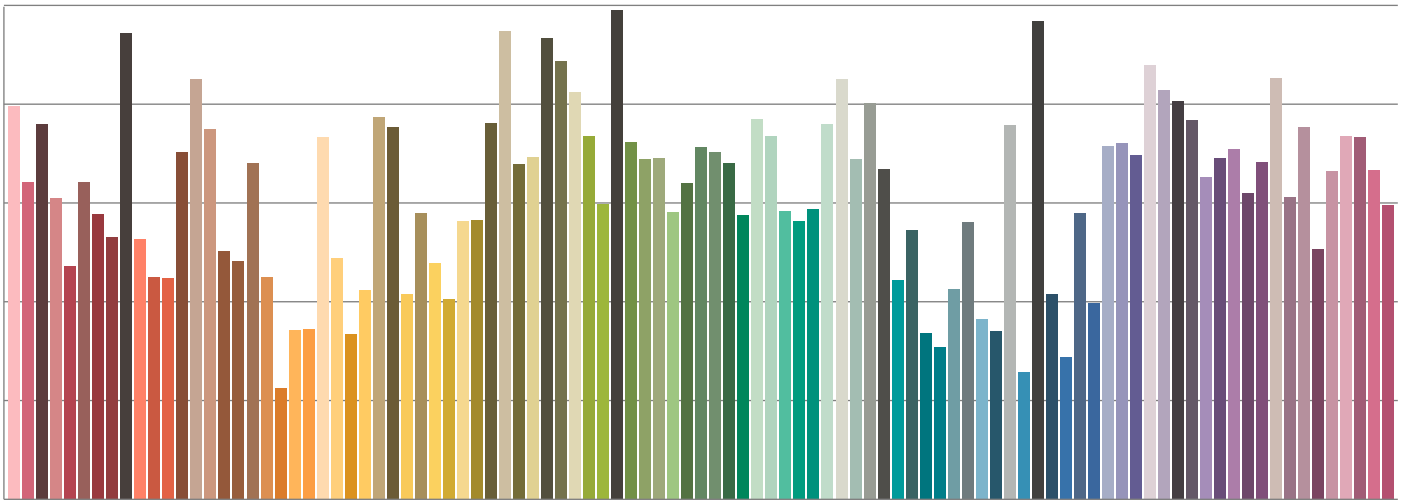
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



Measurement Date: 5/30/2024