

ELATION®



FUZE TEATRO

Photometric &
Chromaticity Test Reports

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Elation Professional USA | 6122 S. Eastern Ave. | Los Angeles, CA. 90040
323-582-3322 | 323-832-9142 fax | www.elationlighting.com | info@elationlighting.com

Elation Professional B.V. | Junostraat 2 | 6468 EW Kerkrade, The Netherlands
+31 45 546 85 66 | +31 45 546 85 96 fax | www.elationlighting.eu | info@elationlighting.eu

Elation Professional Mexico | AV Santa Ana 30 | Parque Industrial Lerma, Lerma, Mexico 52000

+52 (728) 282-7070

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](#)

Key Measurements

Output

Total Lumen Output: 13138 lm
Peak Intensity: 22135 cd

Beam

Beam Angle (50%): 50.5°
Field Angle (10%): 54.7°
Cutoff Angle (2.5%): 56.4°

Color

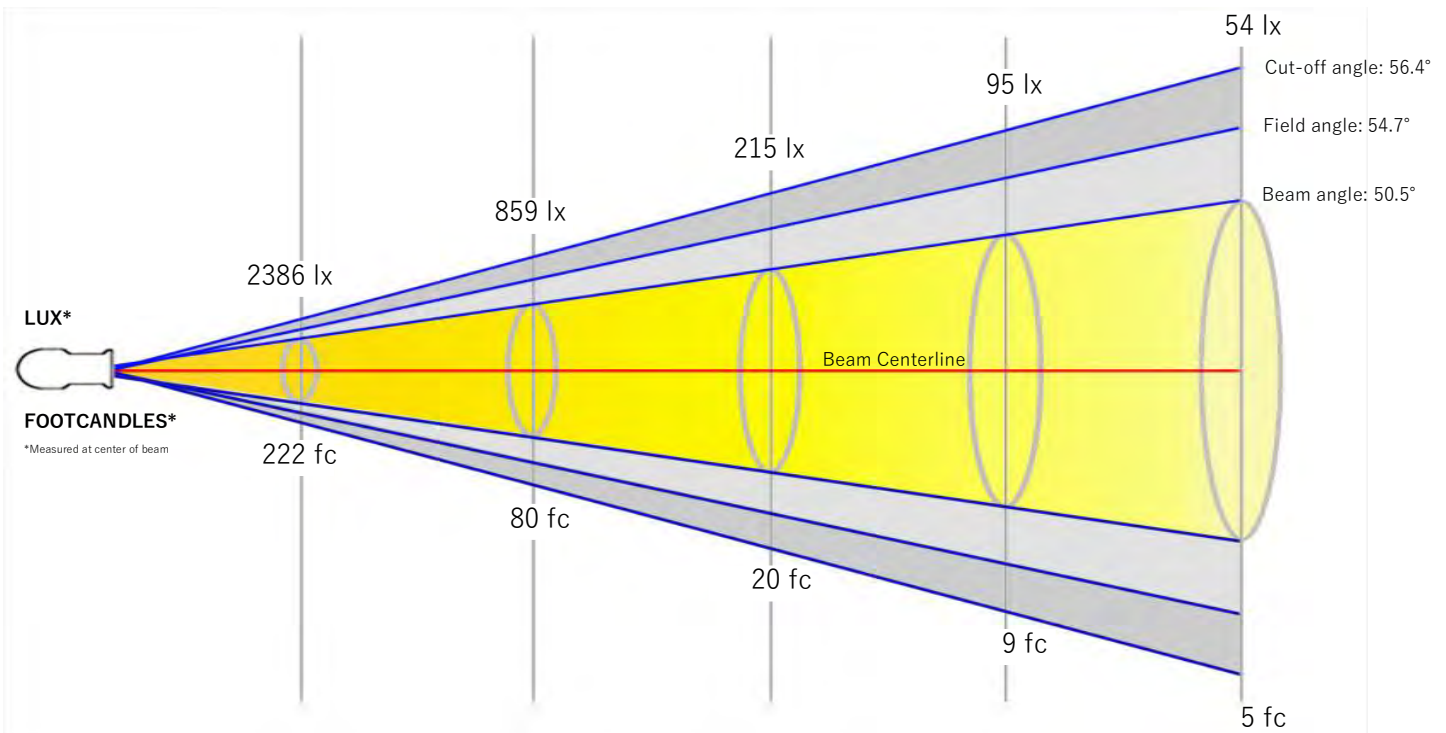
Color Temperature: 6429 K
CRI: 92.4
TLCI: 93
TM30 R_F: 88.6
TM30 R_g: 100.4

Power Details

Efficacy: 24 Lumen/Watt
Power: 540 W
Supply Voltage: 120 V
Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.8 m	4.7 m	9.4 m	14.2 m	18.9 m

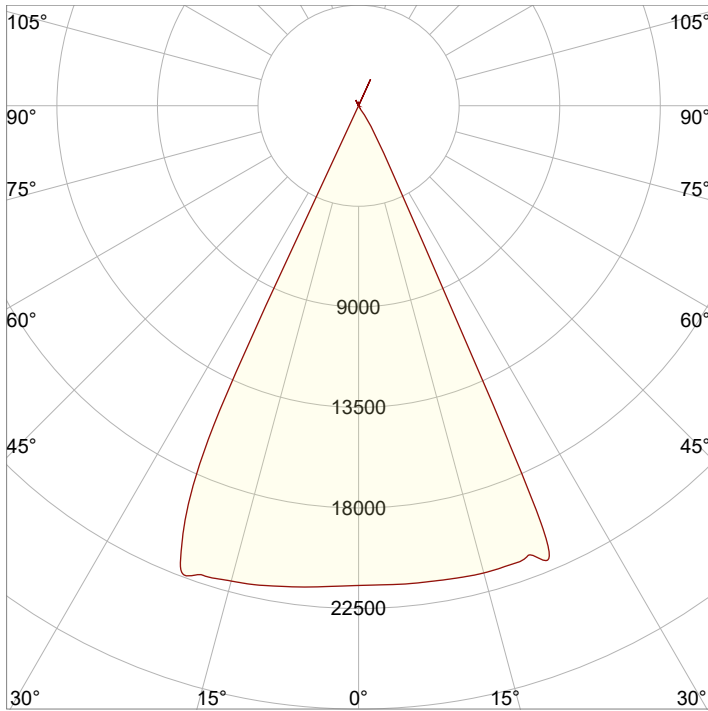


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	9.2 ft	15.5 ft	31 ft	46.4 ft	61.9 ft

Beam Intensities from 1-20m

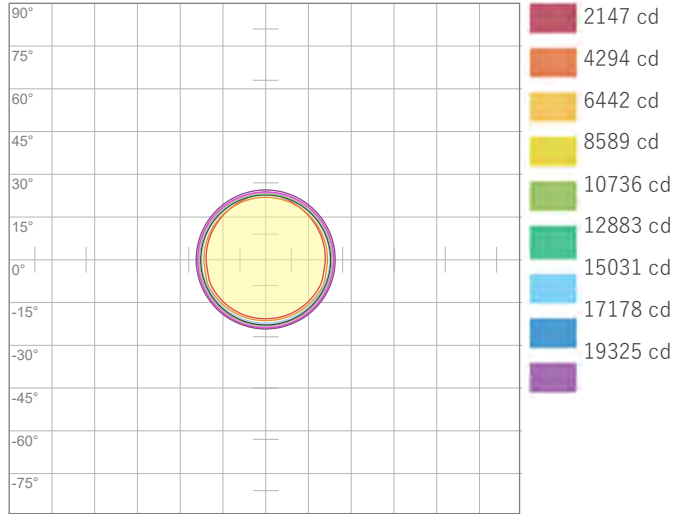
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	21472	5368	2386	1342	859	596	438	336	265	215	177	149	127	110	95	84	74	66	59	54
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1994.8	498.7	221.6	124.7	79.8	55.4	40.7	31.2	24.6	19.9	16.5	13.9	11.8	10.2	8.9	7.8	6.9	6.2	5.5	5

Angular Distribution



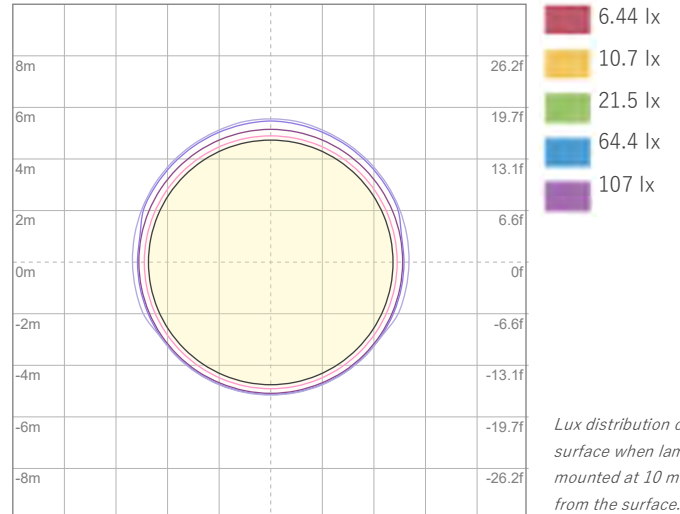
Beam Angle - 50%
50.5°
Field Angle - 10%
54.7°
Cutoff Angle - 2.5%
56.4°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 21472 cd

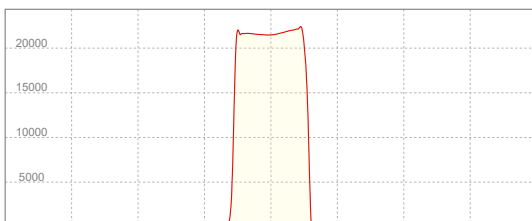


ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 215 lx

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

Linear Distribution



Peak Candela
22135 cd

Calculate Center Beam Intensities

$$\text{lux} = 22135 / \text{distance(m)}^2$$

$$\text{fc} = 22135 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 12813 lm
Peak Intensity: 116549 cd

Beam

Beam Angle (50%): 21.1°
Field Angle (10%): 25.9°
Cutoff Angle (2.5%): 27°

Color

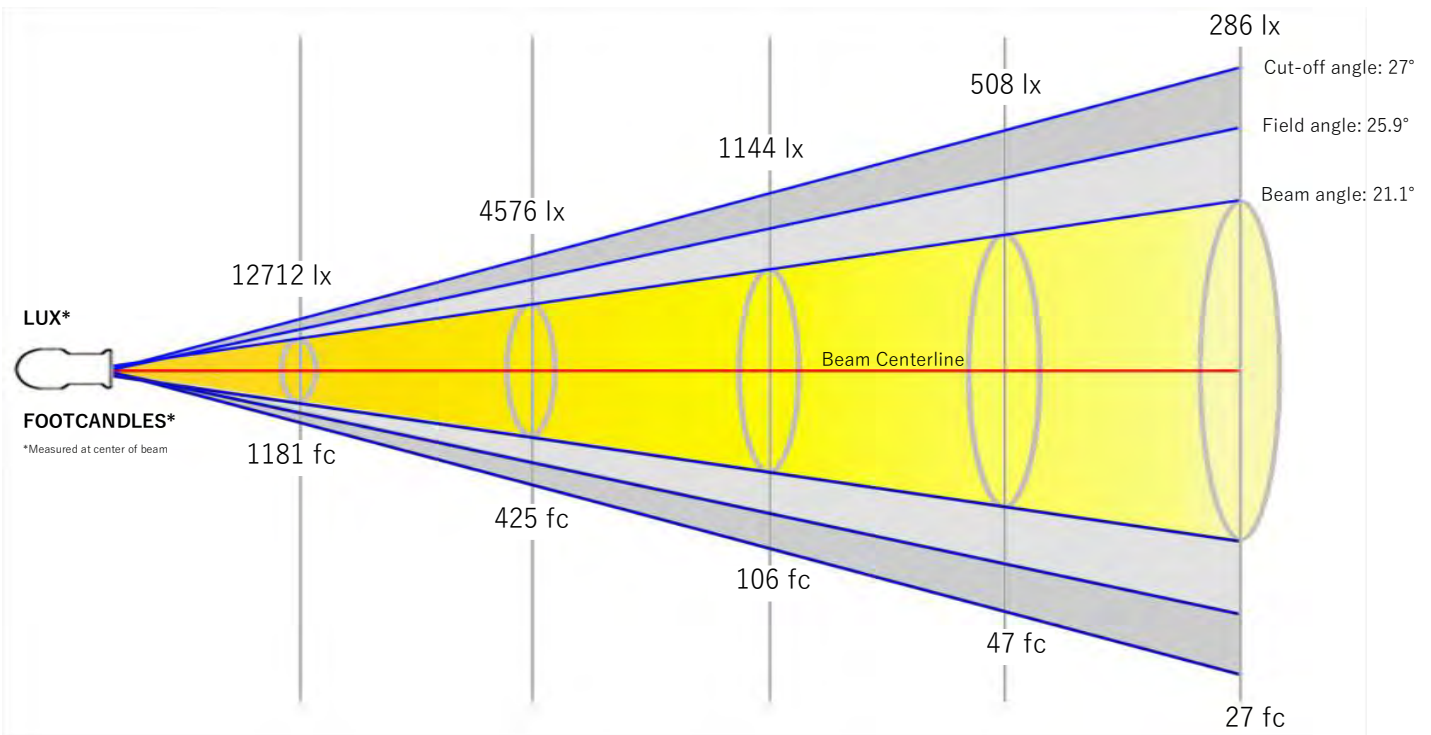
Color Temperature: 6408 K
CRI: 92.6
TLCI: 93
TM30 R_F: 88.7
TM30 R_g: 100.5

Power Details

Efficacy: 24 Lumen/Watt
Power: 540 W
Supply Voltage: 120 V
Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.1 m	1.9 m	3.7 m	5.6 m	7.5 m

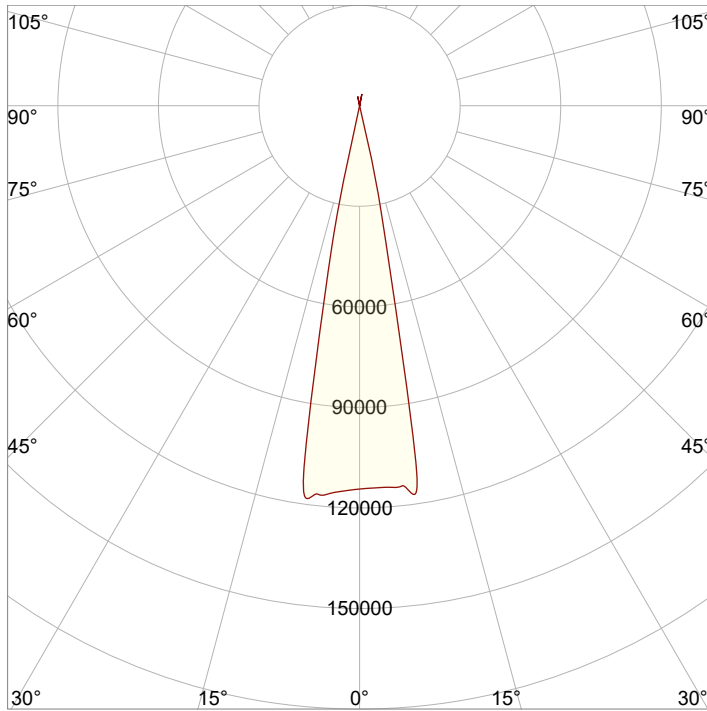


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.7 ft	6.1 ft	12.2 ft	18.4 ft	24.5 ft

Beam Intensities from 1-20m

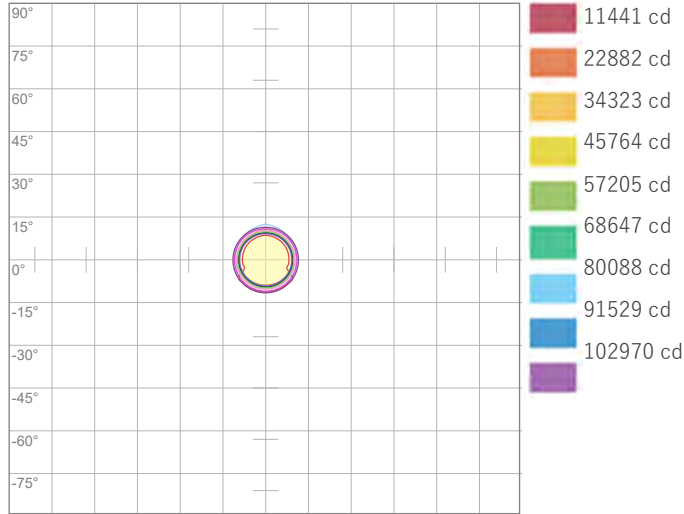
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	114411	28603	12712	7151	4576	3178	2335	1788	1412	1144	946	795	677	584	508	447	396	353	317	286
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	10629.1	2657.3	1181	664.3	425.2	295.3	216.9	166.1	131.2	106.3	87.8	73.8	62.9	54.2	47.2	41.5	36.8	32.8	29.4	26.6

Angular Distribution



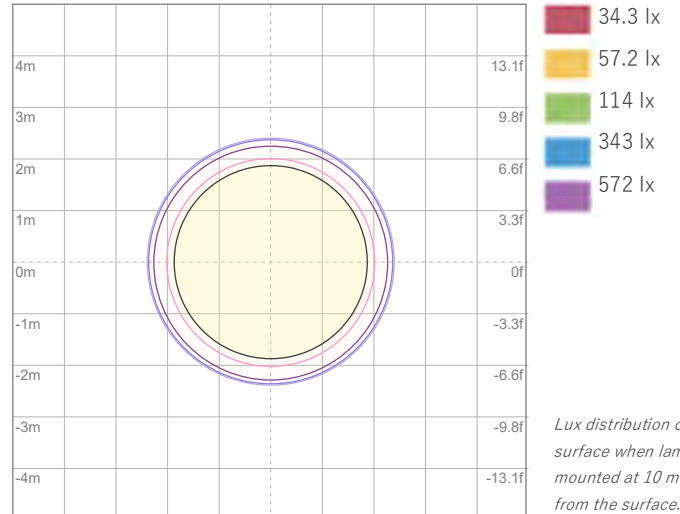
Beam Angle - 50%
21.1°
Field Angle - 10%
25.9°
Cutoff Angle - 2.5%
27°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 114411 cd

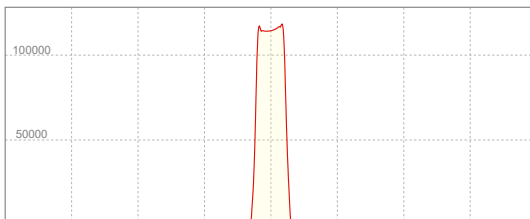


ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 1144 lx

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

Linear Distribution



Peak Candela
116549 cd

Calculate Center Beam Intensities

$$\text{lux} = 116549 / \text{distance(m)}^2$$

$$\text{fc} = 116549 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 7806 lm
Peak Intensity: 704185 cd

Beam

Beam Angle (50%): 6.8°
Field Angle (10%): 8.5°
Cutoff Angle (2.5%): 8.9°

Color

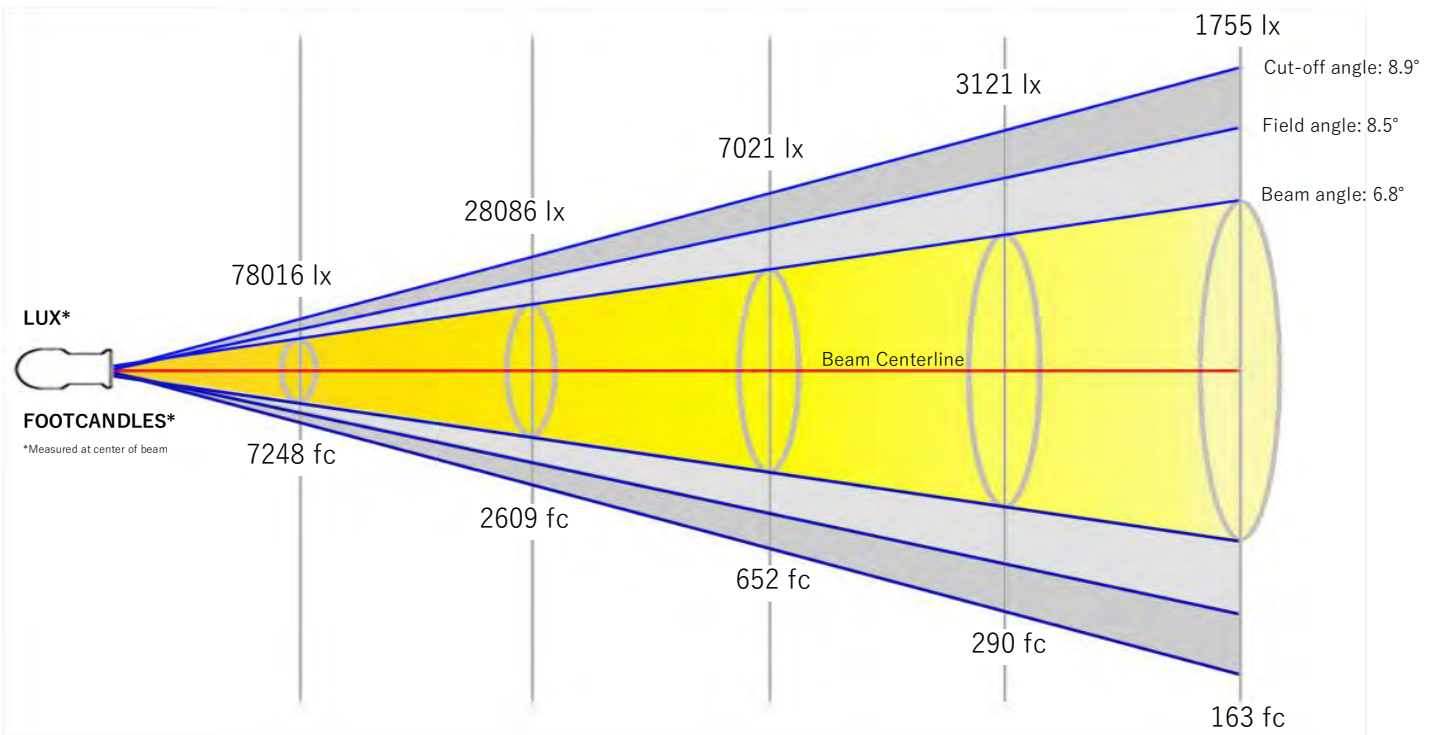
Color Temperature: 6419 K
CRI: 93.0
TLCI: 93
TM30 R_F: 88.7
TM30 R_g: 100.6

Power Details

Efficacy: 14 Lumen/Watt
Power: 541 W
Supply Voltage: 120 V
Current: - A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.4 m	0.6 m	1.2 m	1.8 m	2.4 m

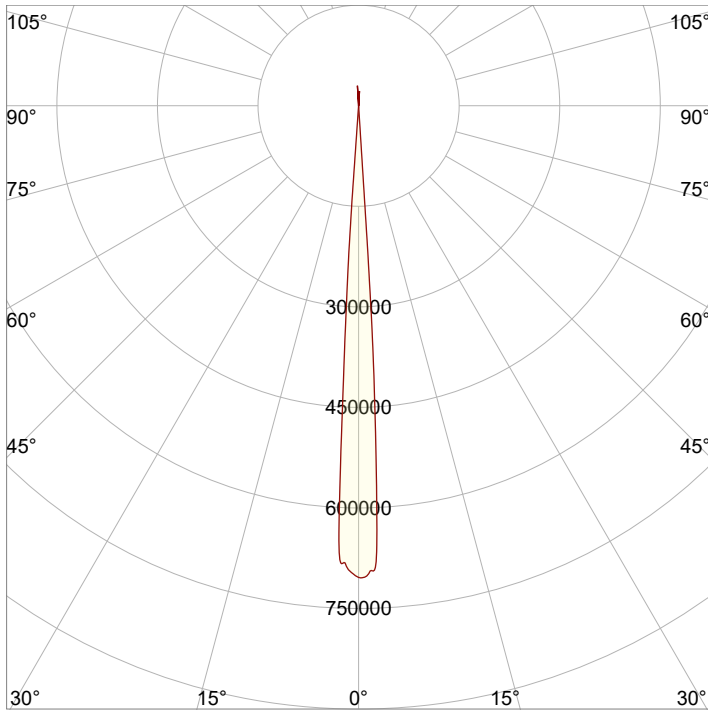


Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.2 ft	1.9 ft	3.9 ft	5.8 ft	7.8 ft

Beam Intensities from 1-20m

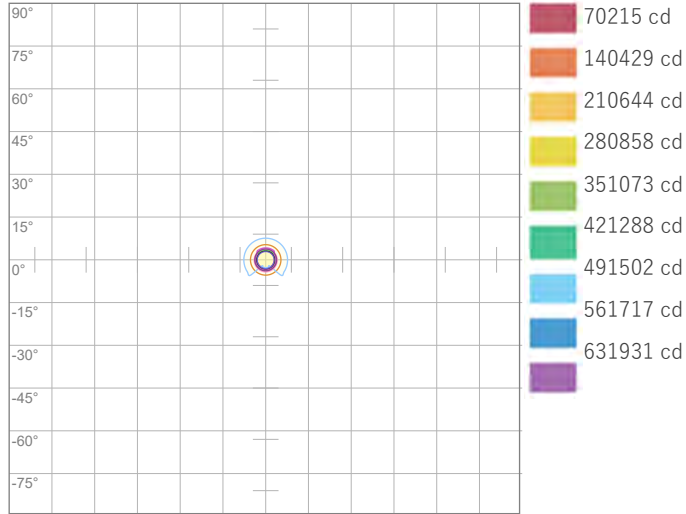
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	702146	175536	78016	43884	28086	19504	14330	10971	8668	7021	5803	4876	4155	3582	3121	2743	2430	2167	1945	1755
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	65231.5	16307.9	7247.9	4077	2609.3	1812	1331.3	1019.2	805.3	652.3	539.1	453	386	332.8	289.9	254.8	225.7	201.3	180.7	163.1

Angular Distribution



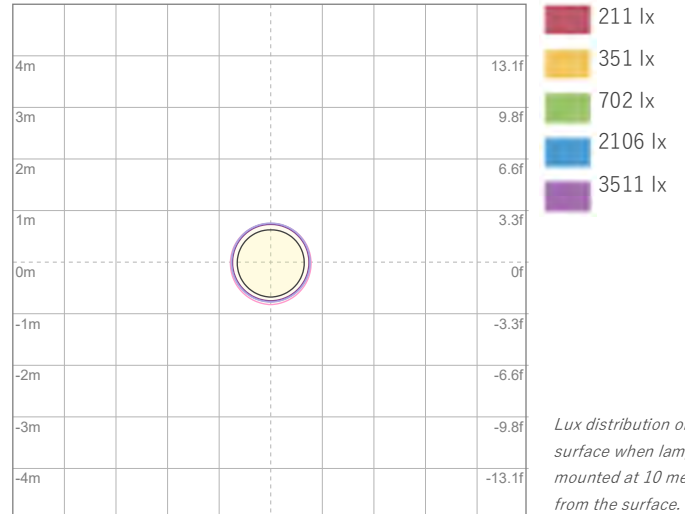
Beam Angle - 50%
6.8°
Field Angle - 10%
8.5°
Cutoff Angle - 2.5%
8.9°

ISO Diagrams



ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 702146 cd

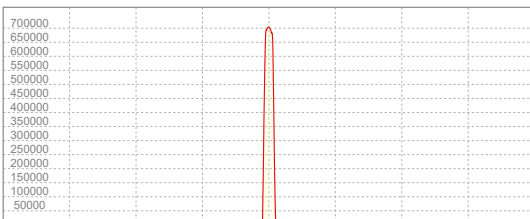


ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 7021 lx

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

Linear Distribution



Peak Candela
704185 cd

Calculate Center Beam Intensities

$$\text{lux} = 704185 / \text{distance(m)}^2$$

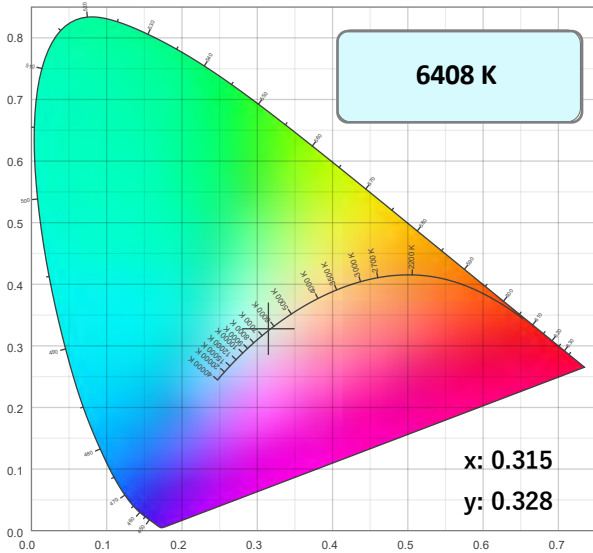
$$\text{fc} = 704185 / \text{distance(ft)}^2$$

Color Temperature: 6408K

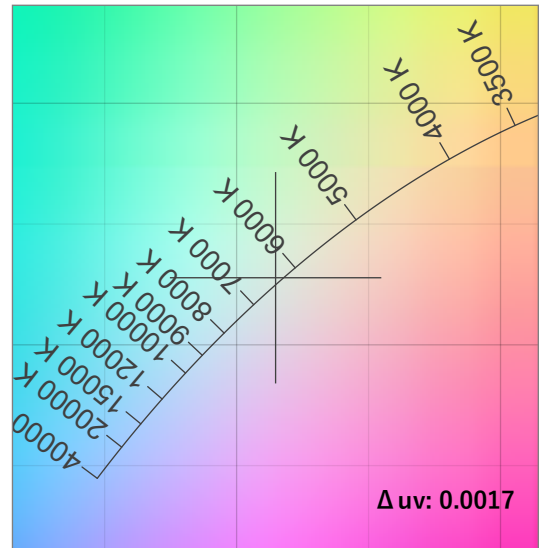
Accuracy Metric Overview

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	Δuv	SSIt	SSId
92.6	88.1	88.7	100.5	93	89.3	0.315	0.328	0.0017	25	58

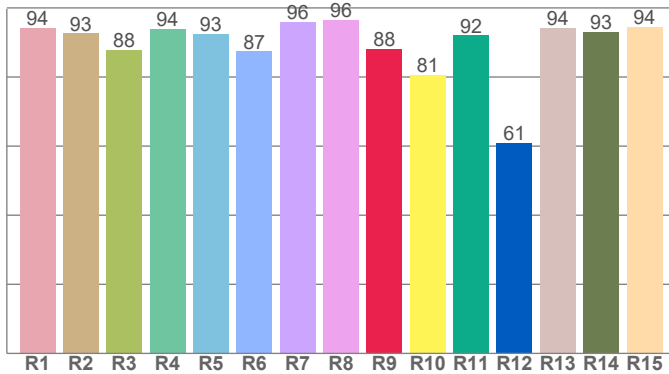
CIE 1931



CIE 1931 ZOOMED

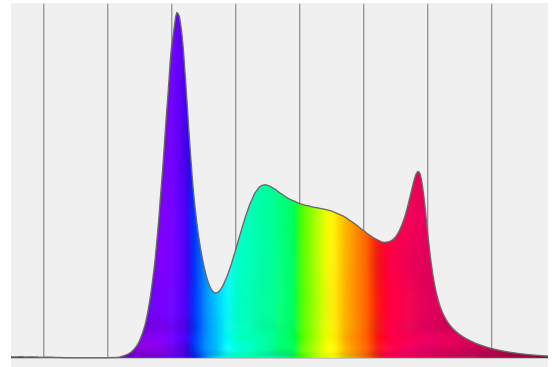


CRI: 92.6 (R1-R8)



Spectral Power Distribution (SPD)

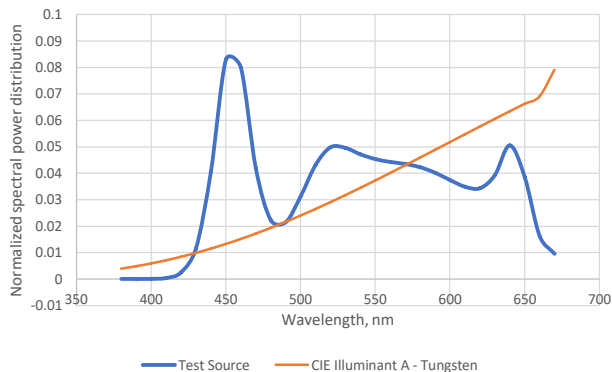
Dominant Wavelength 829 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 25

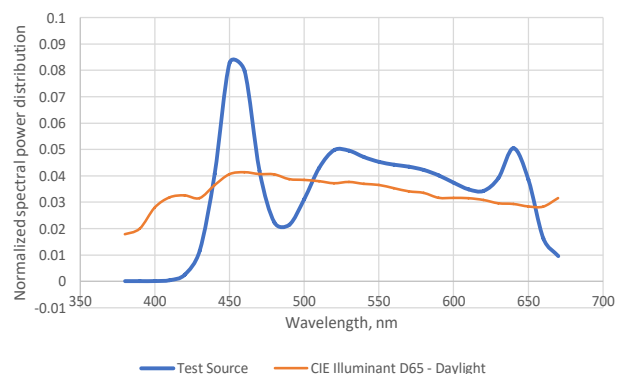
Spectral variance

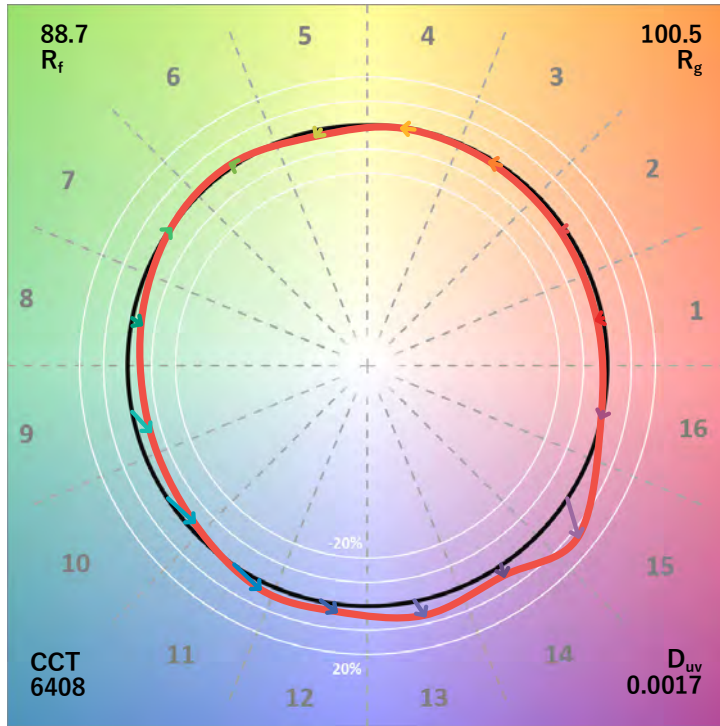


SSI Spectral Variance Graph- Daylight

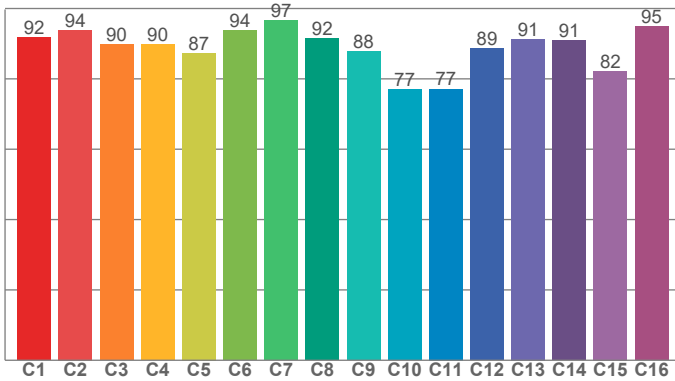
SSI [CIE D65] 58

Spectral variance

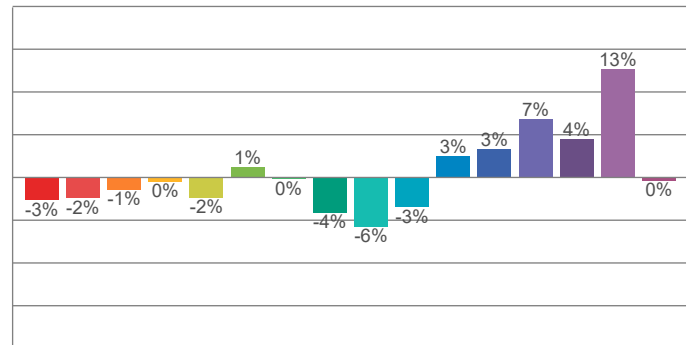




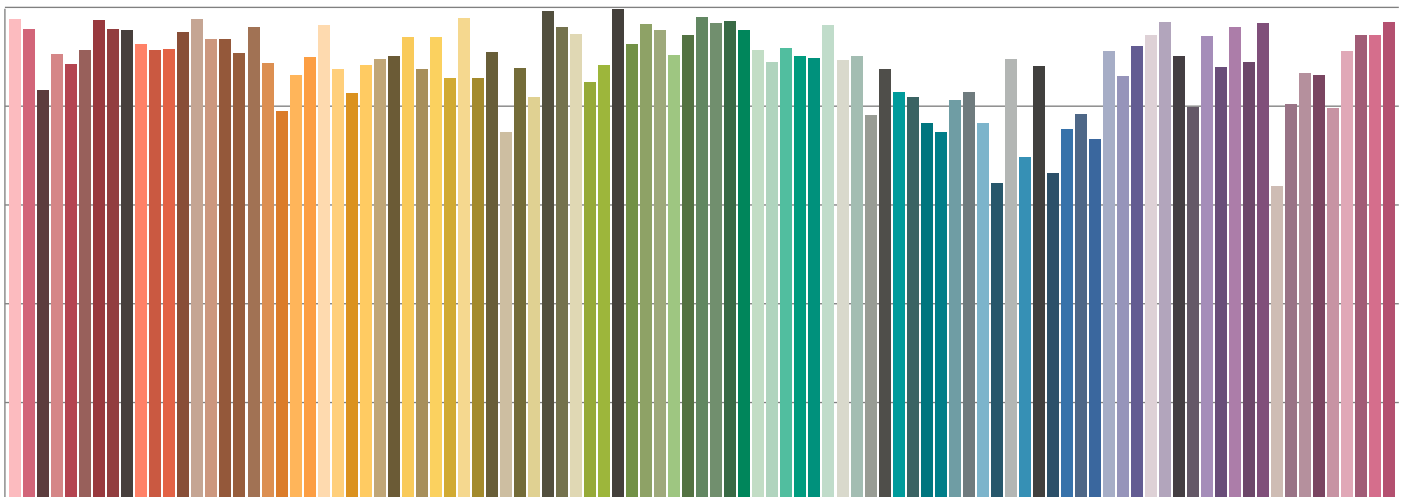
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

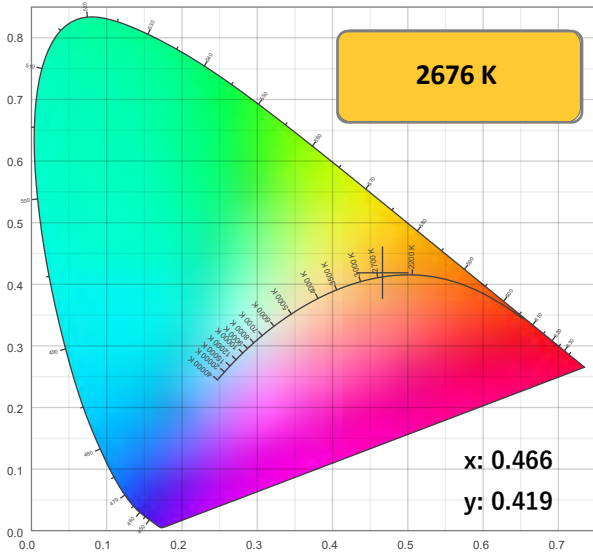


Color Temperature: 2676K

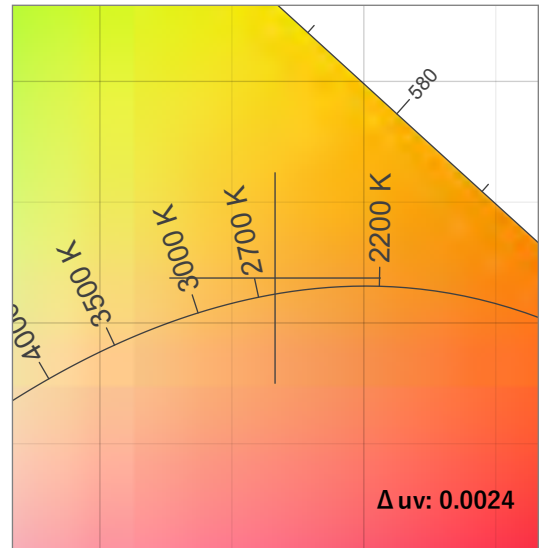
Accuracy Metric Overview

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	Δuv	SSIt	SSId
95.1	86.6	94.7	102.7	89	92.9	0.466	0.419	0.0024	66	15

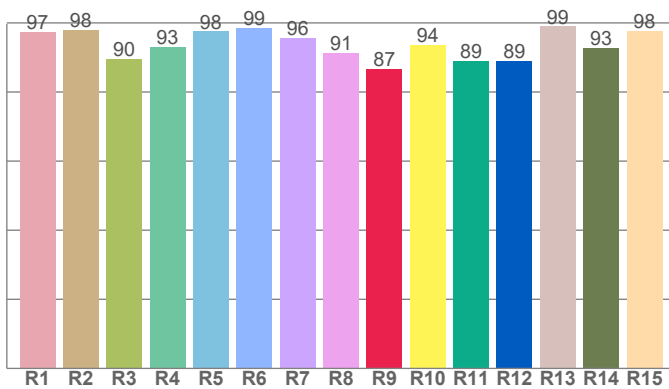
CIE 1931



CIE 1931 ZOOMED

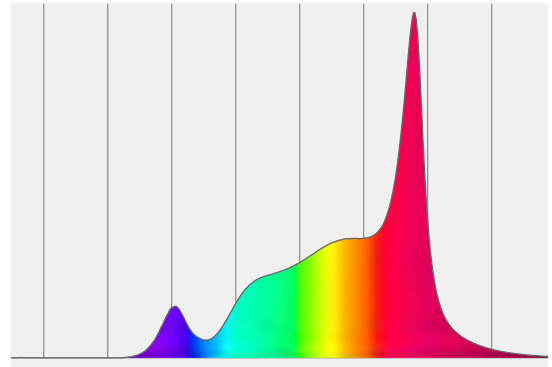


CRI: 95.1 (R1-R8)



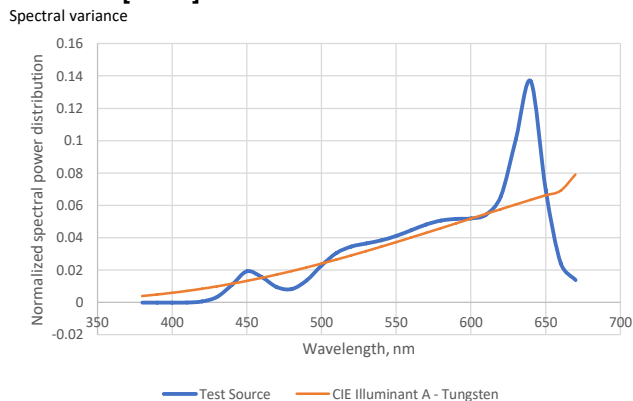
Spectral Power Distribution (SPD)

Dominant Wavelength 584 nm



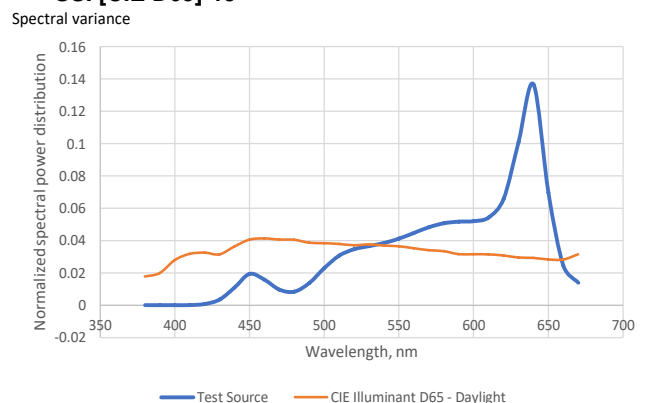
SSI Spectral Variance Graph- Tungsten

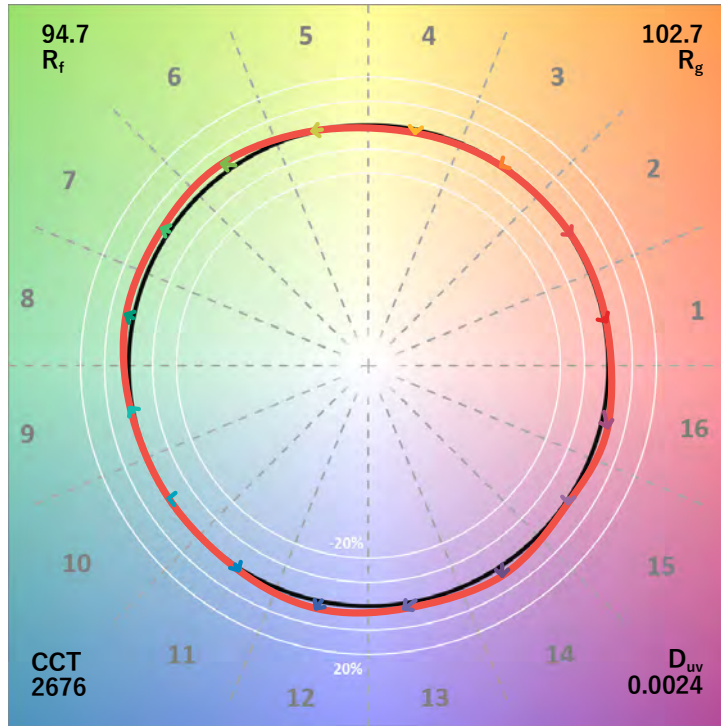
SSI [CIE A] 66



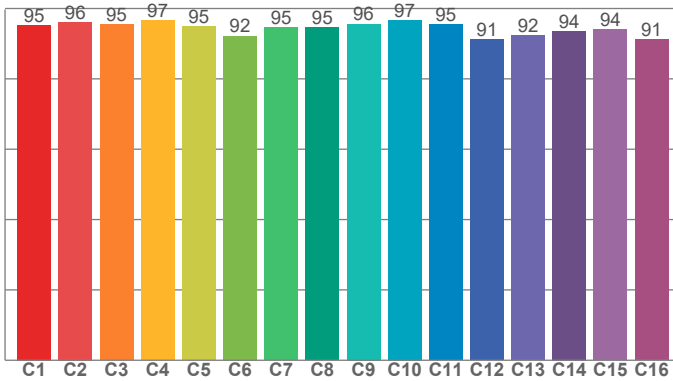
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 15

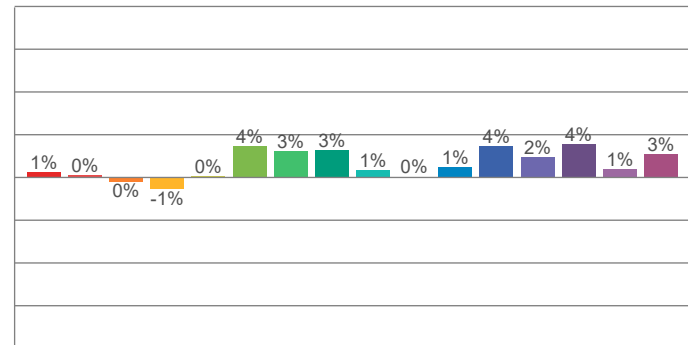




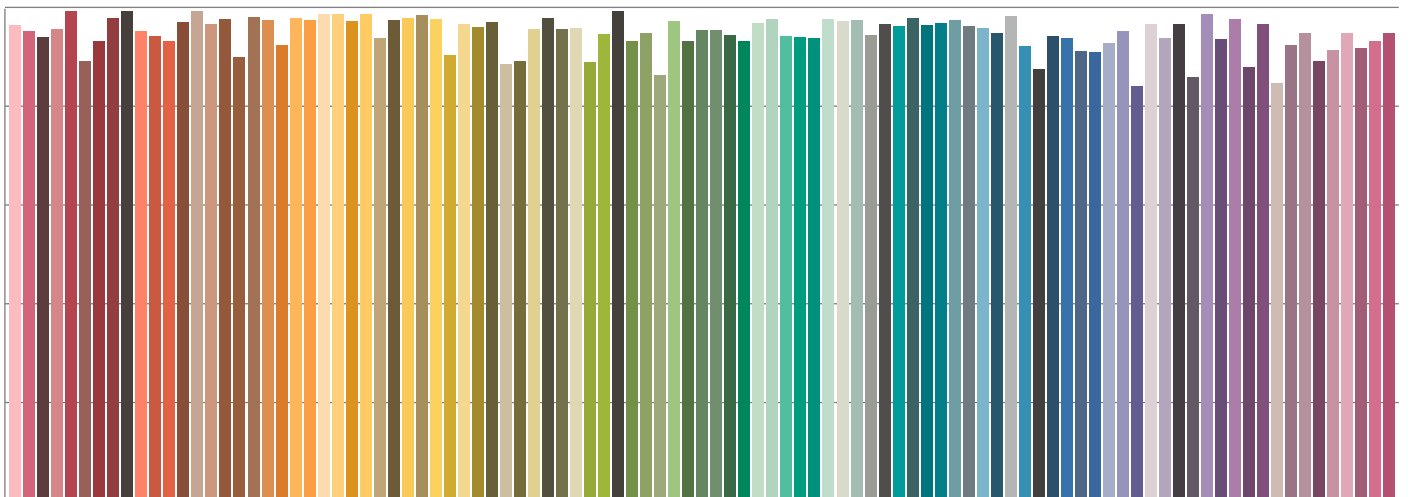
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

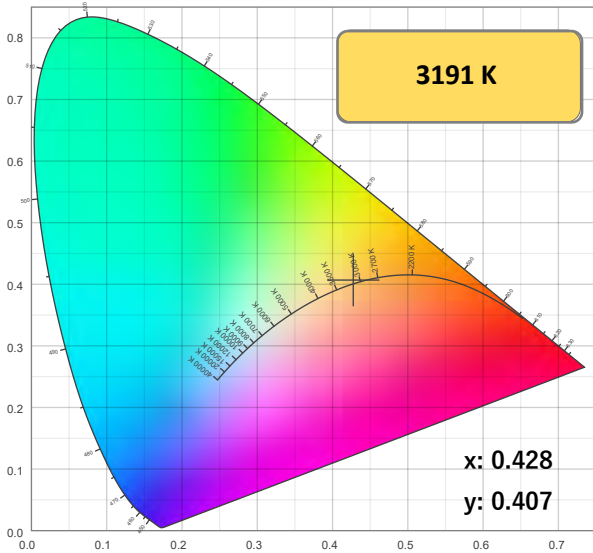


Color Temperature: 3191K

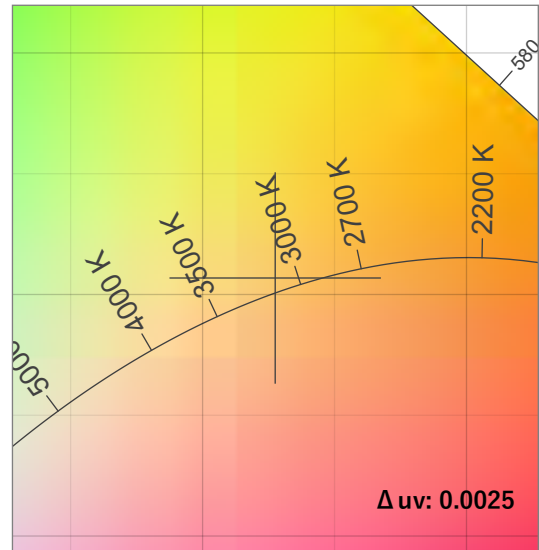
Accuracy Metric Overview

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	Δuv	SSIt	SSId
94.7	89.8	93.7	103.1	92	94.1	0.428	0.407	0.0025	70	31

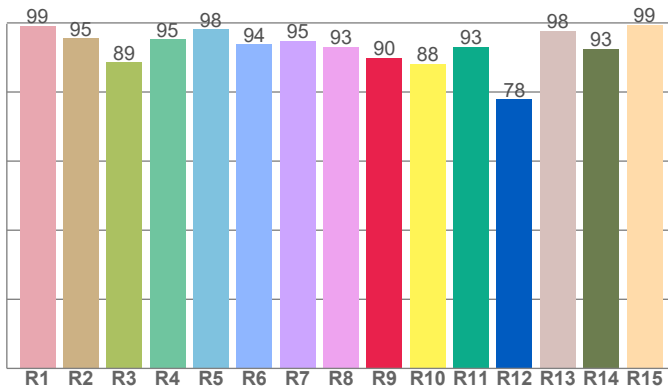
CIE 1931



CIE 1931 ZOOMED

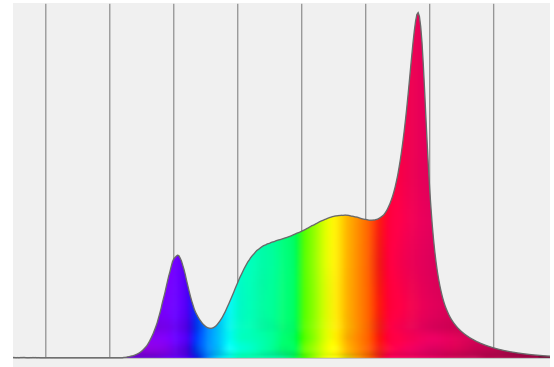


CRI: 94.7 (R1-R8)

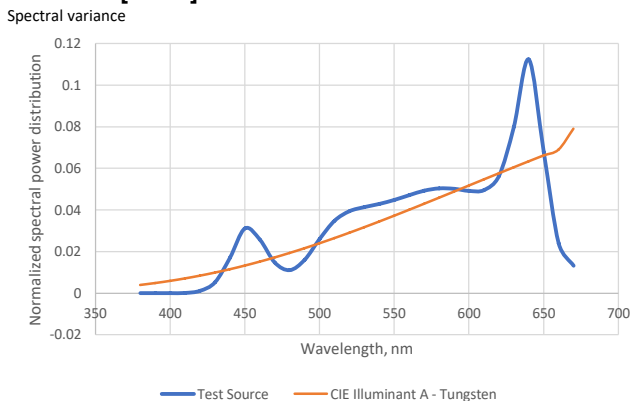


Spectral Power Distribution (SPD)

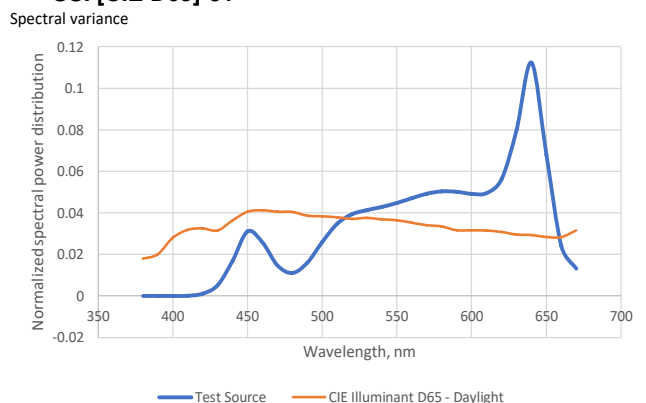
Dominant Wavelength 582 nm

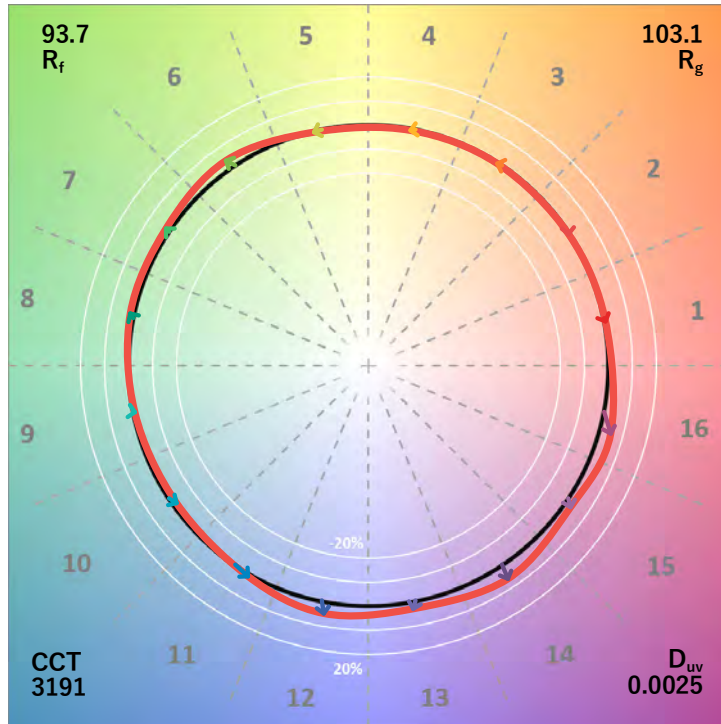


SSI Spectral Variance Graph- Tungsten
SSI [CIE A] 70

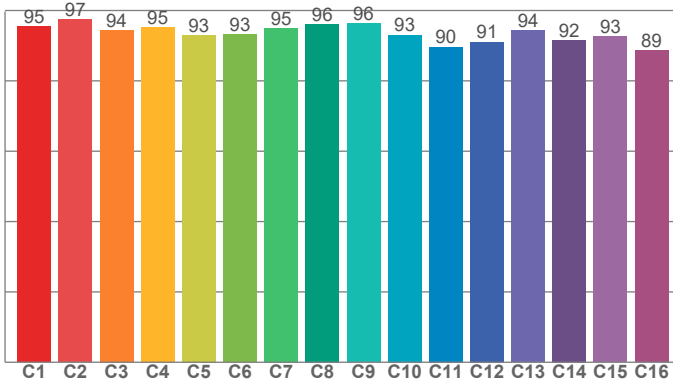


SSI Spectral Variance Graph- Daylight
SSI [CIE D65] 31

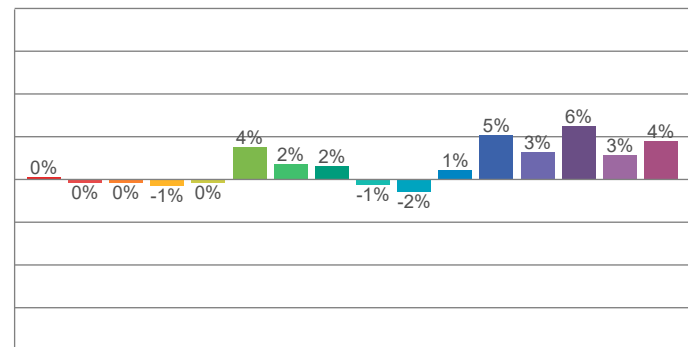




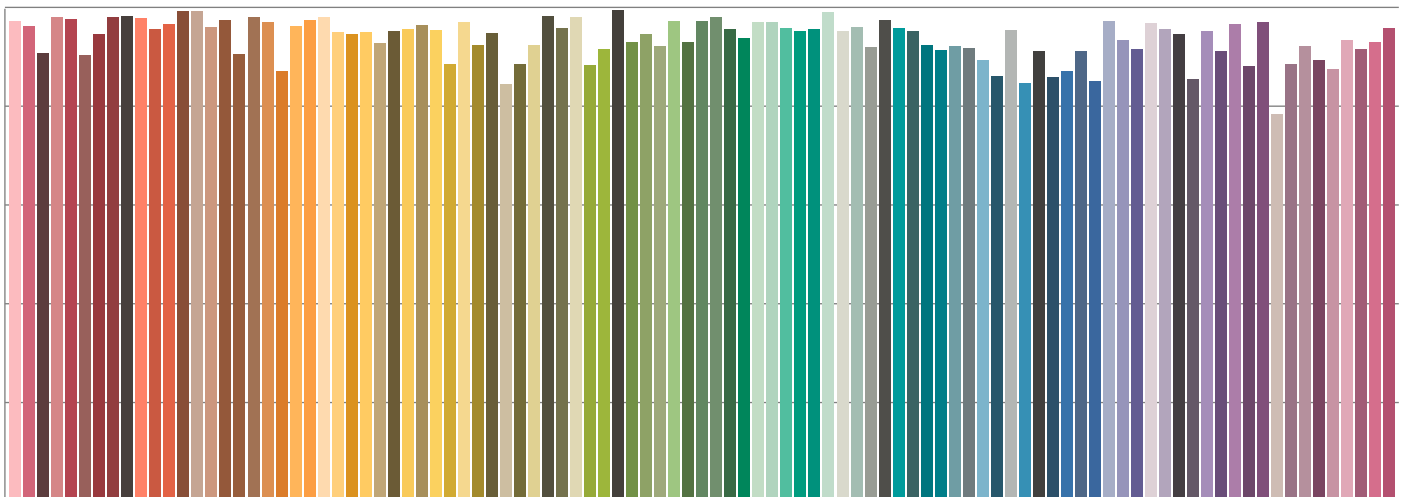
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

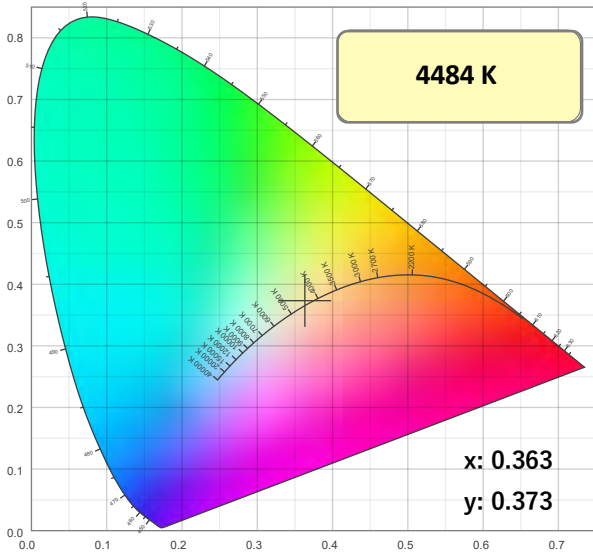


Color Temperature: 4484K

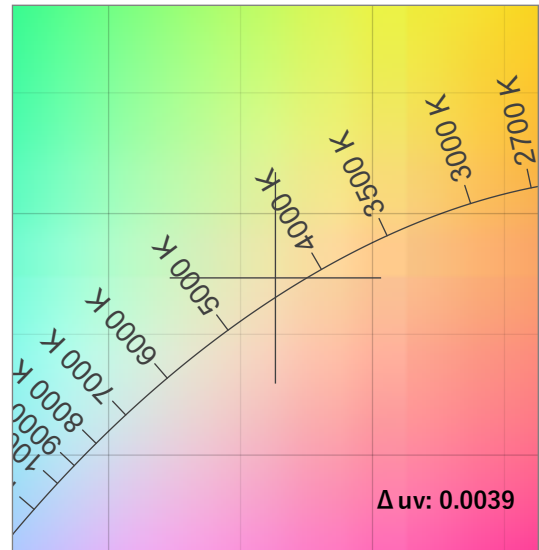
Accuracy Metric Overview

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	Δuv	SSIt	SSId
91.5	86.7	89.6	100.5	92	90.9	0.363	0.373	0.0039	53	54

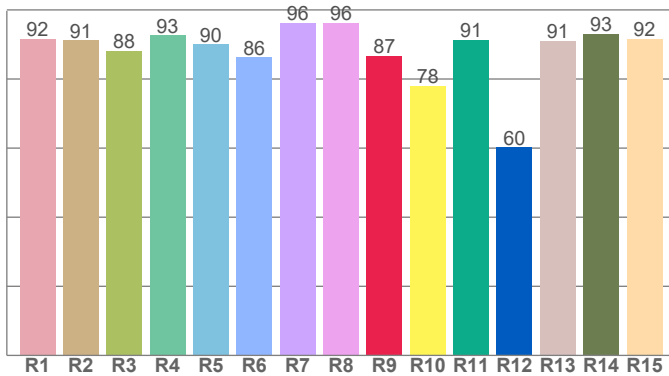
CIE 1931



CIE 1931 ZOOMED

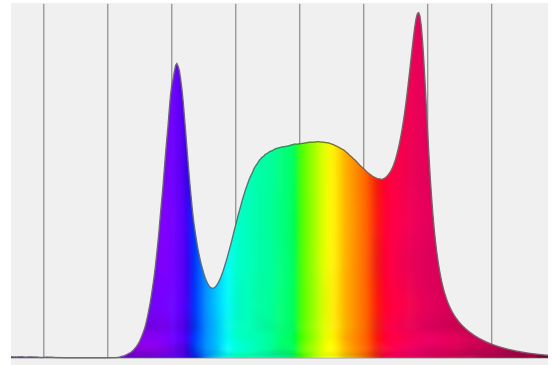


CRI: 91.5 (R1-R8)



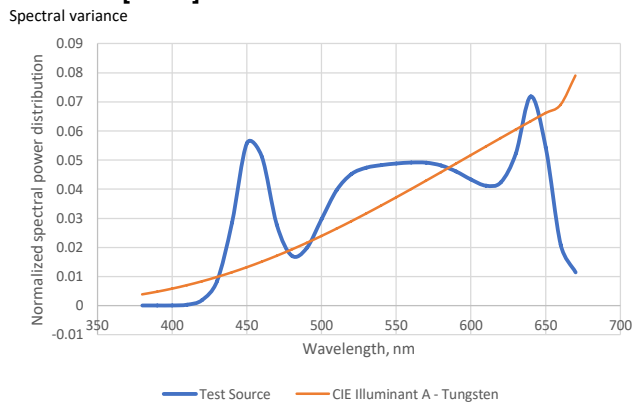
Spectral Power Distribution (SPD)

Dominant Wavelength 579 nm



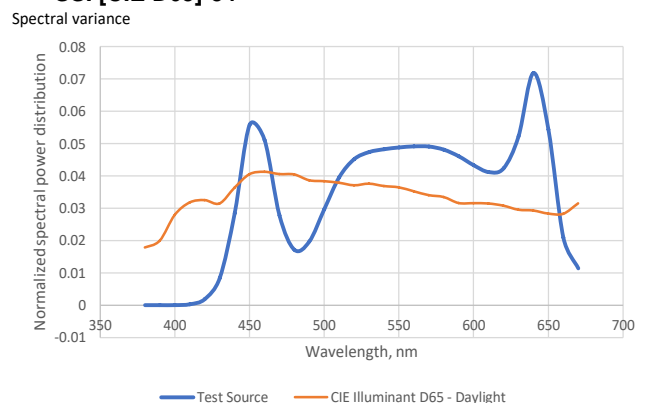
SSI Spectral Variance Graph- Tungsten

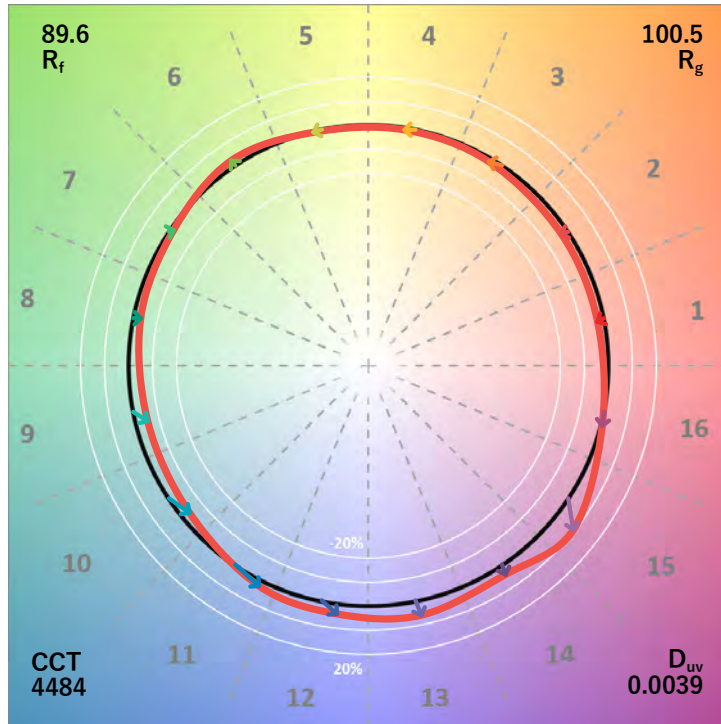
SSI [CIE A] 53



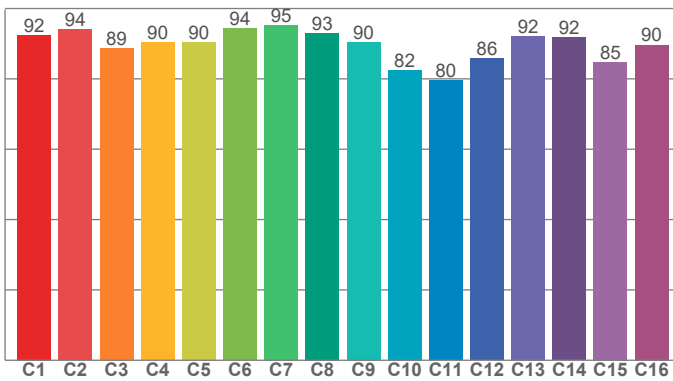
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 54

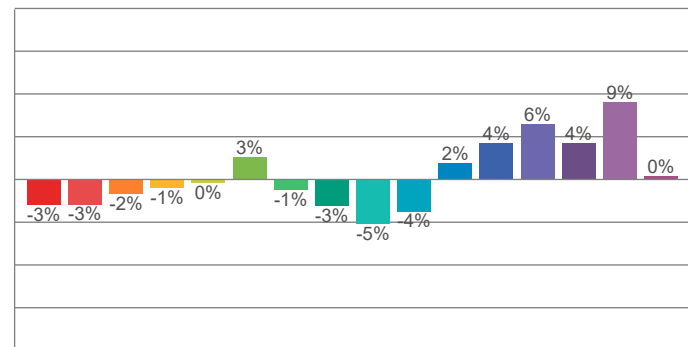




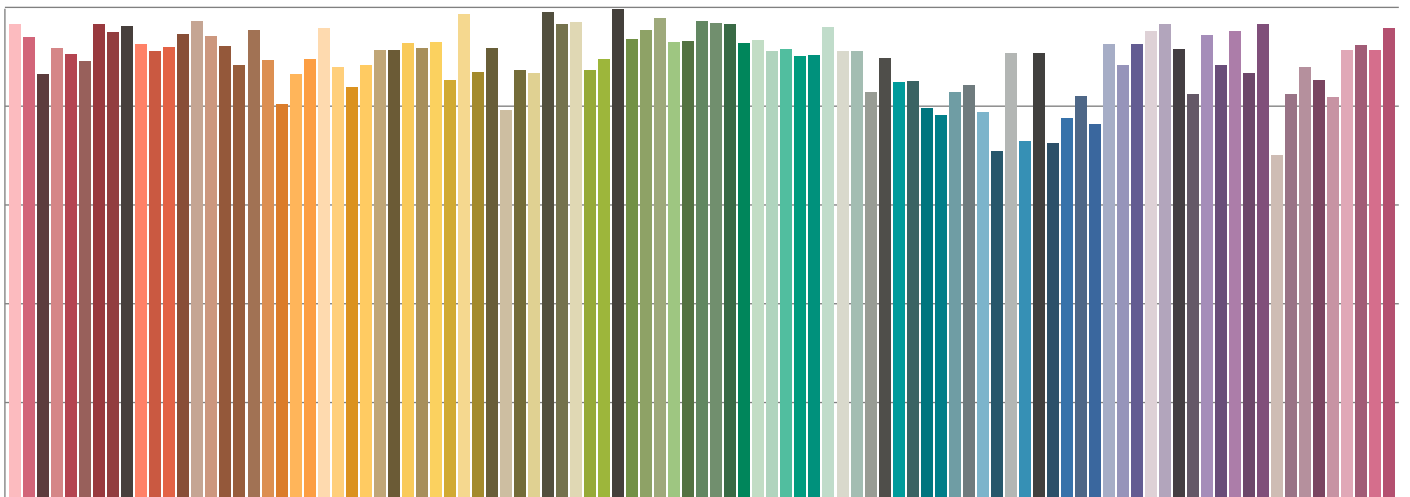
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

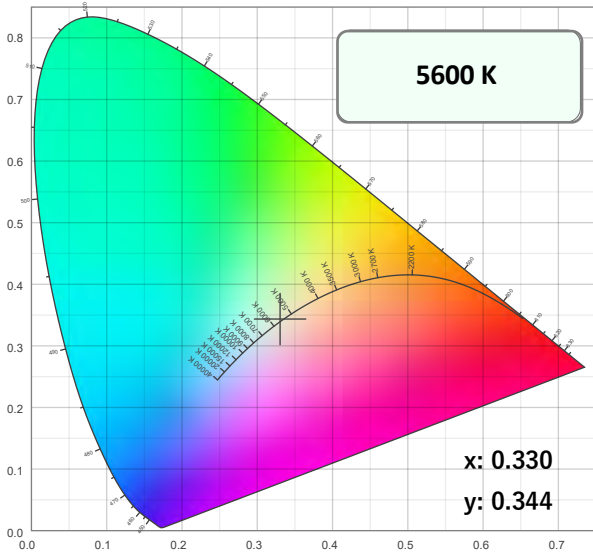


Color Temperature: 5600K

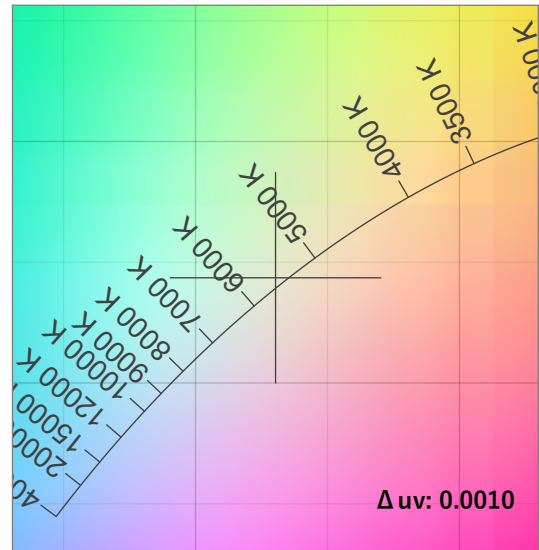
Accuracy Metric Overview

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	Δuv	SSIt	SSId
93.0	96.2	89.7	101.4	94	90.4	0.330	0.344	0.0010	35	58

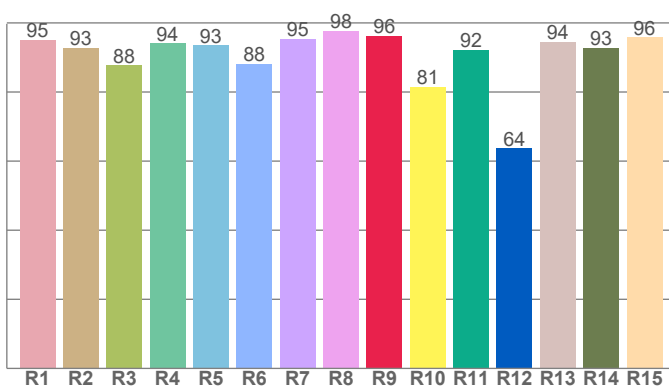
CIE 1931



CIE 1931 ZOOMED

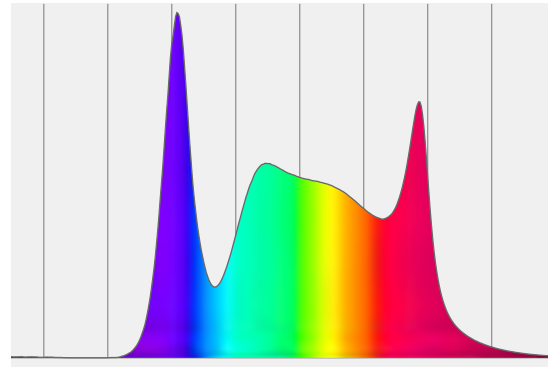


CRI: 93.0 (R1-R8)



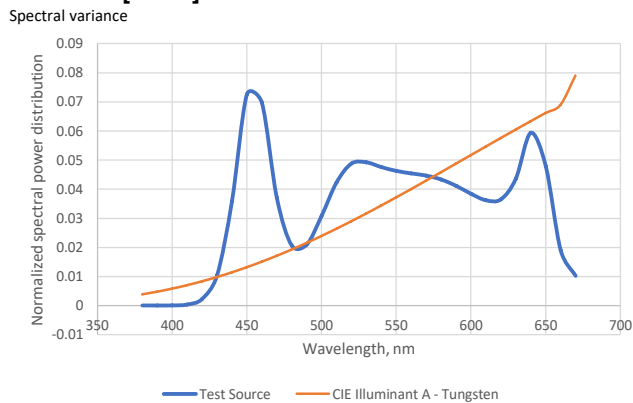
Spectral Power Distribution (SPD)

Dominant Wavelength 579 nm



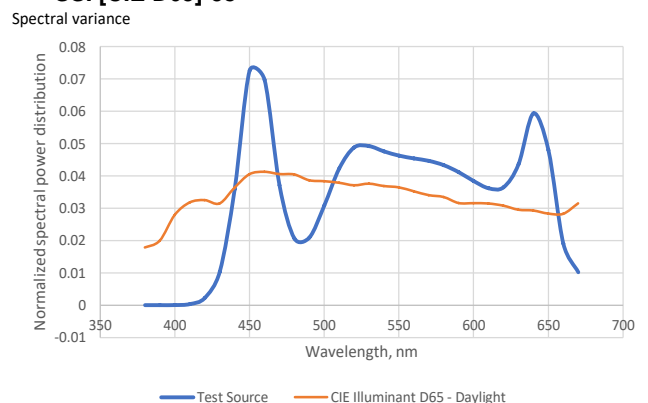
SSI Spectral Variance Graph- Tungsten

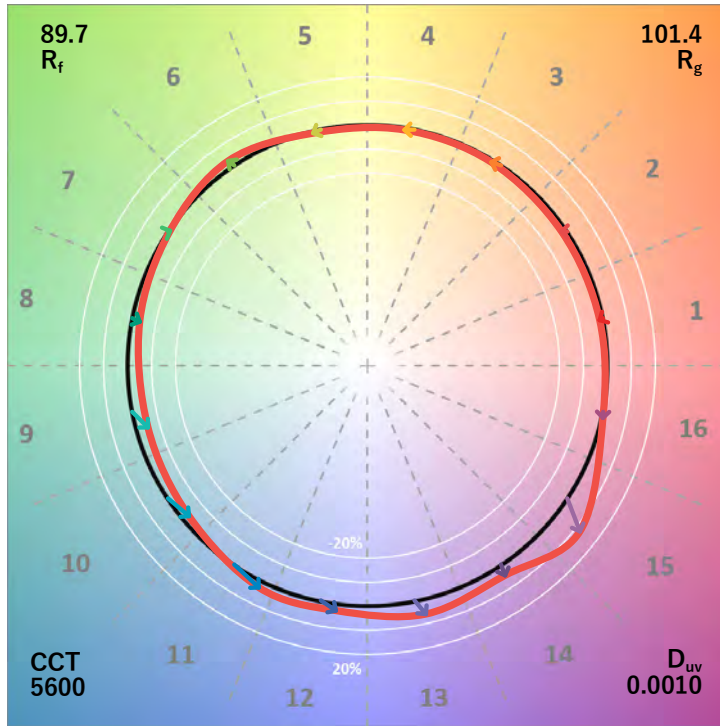
SSI [CIE A] 35



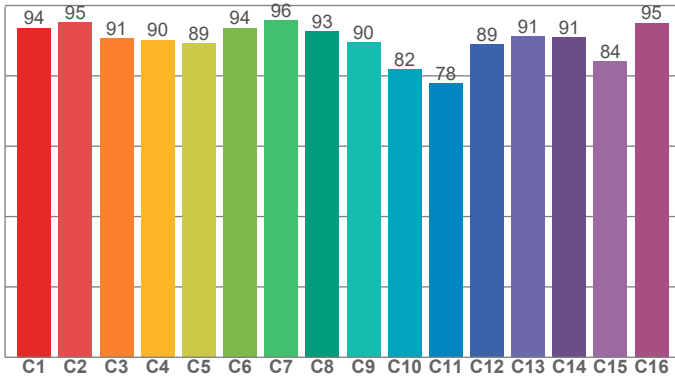
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 58

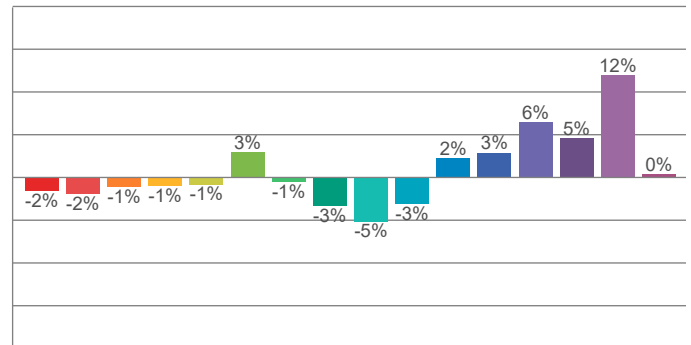




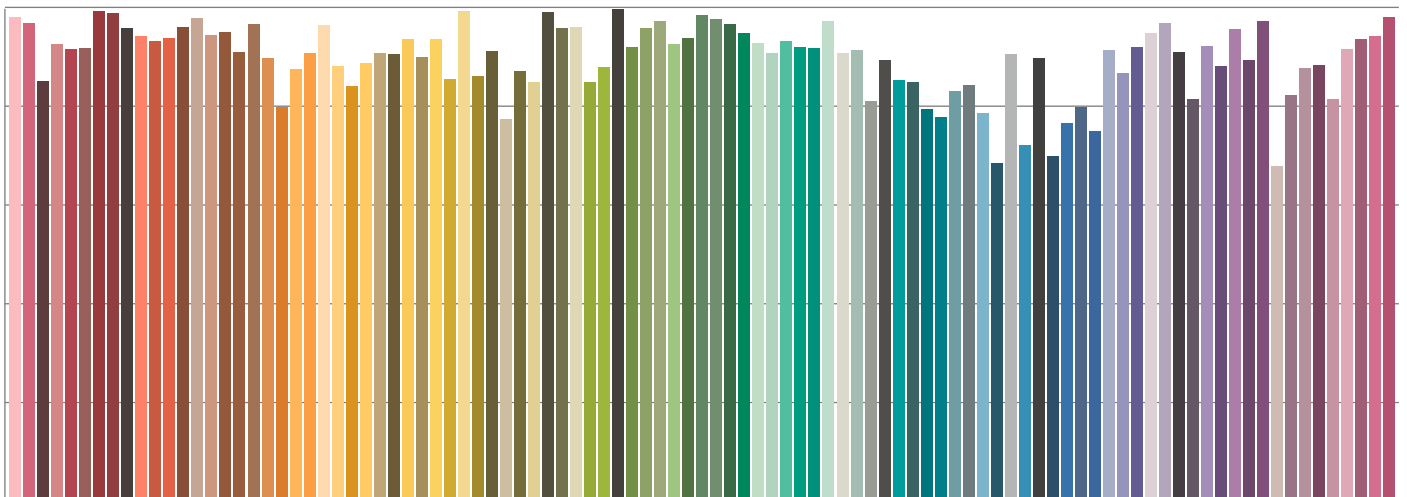
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

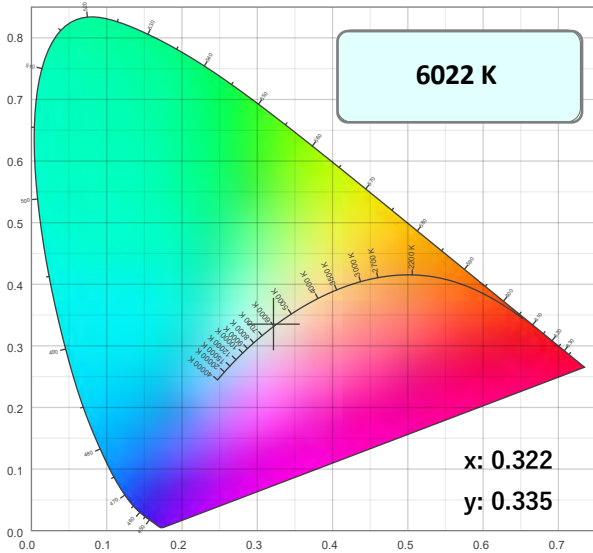


Color Temperature: 6022K

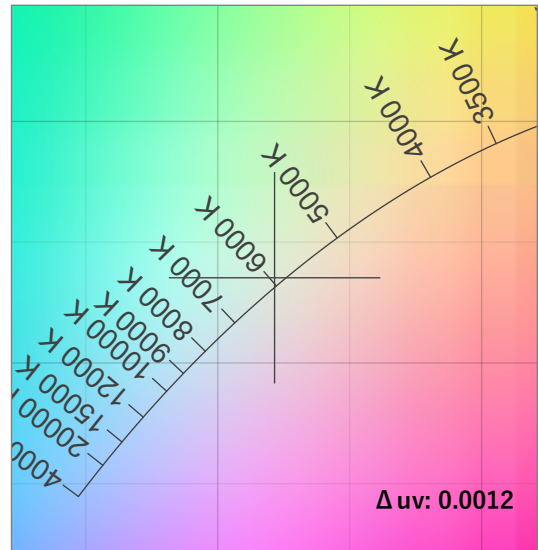
Accuracy Metric Overview

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	Δuv	SSIt	SSId
93.4	98.6	89.8	101.7	95	90.8	0.322	0.335	0.0012	30	58

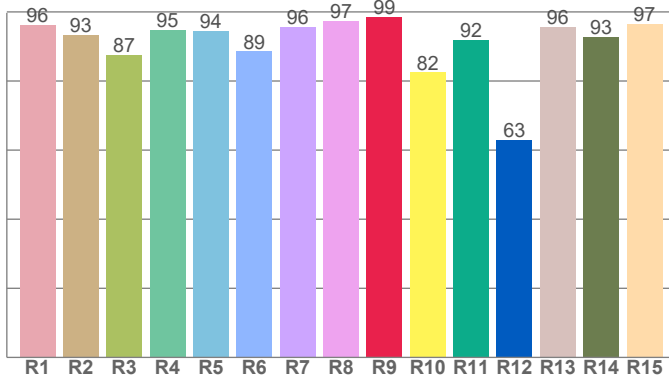
CIE 1931



CIE 1931 ZOOMED

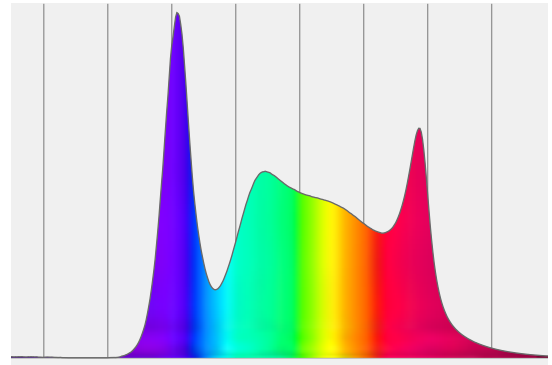


CRI: 93.4 (R1-R8)



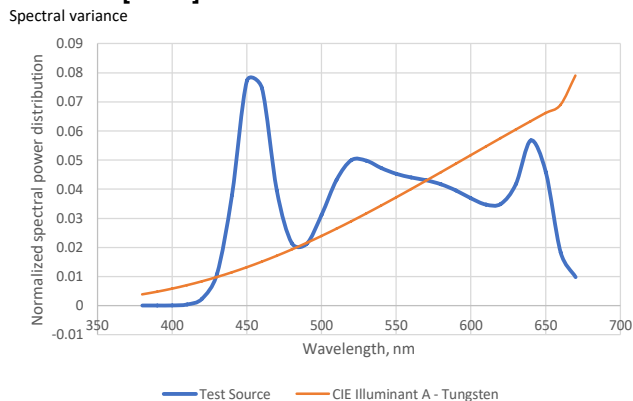
Spectral Power Distribution (SPD)

Dominant Wavelength 581 nm



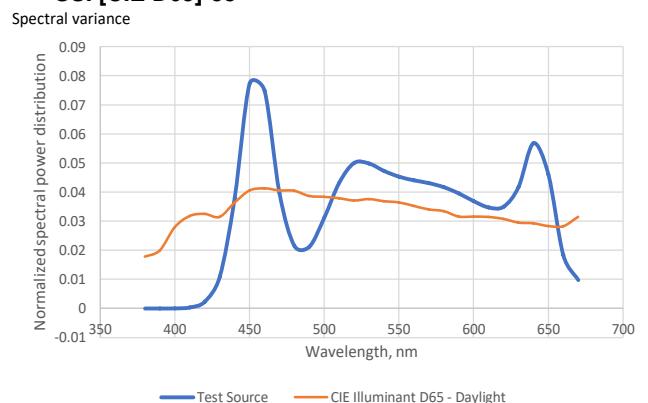
SSI Spectral Variance Graph- Tungsten

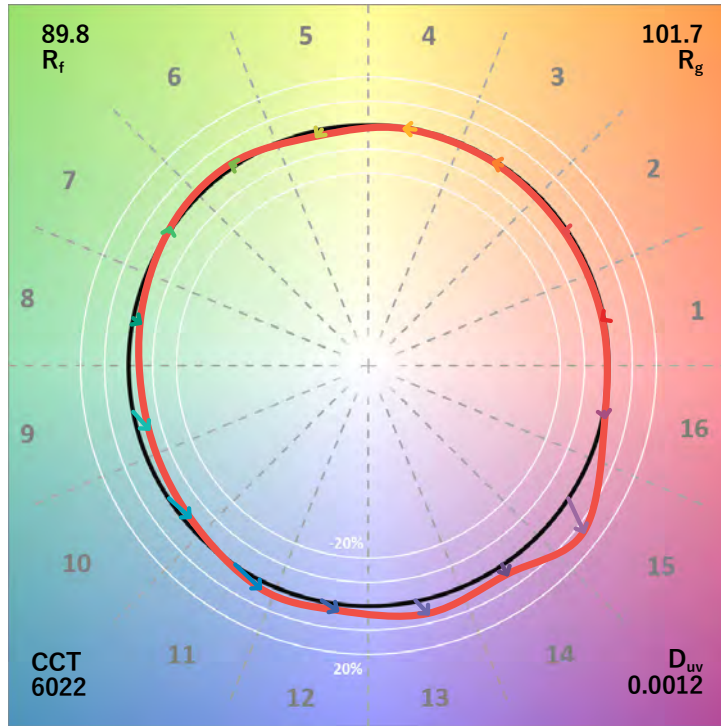
SSI [CIE A] 30



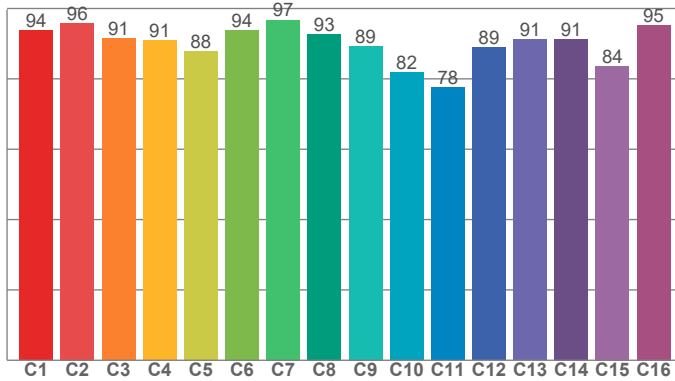
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 58

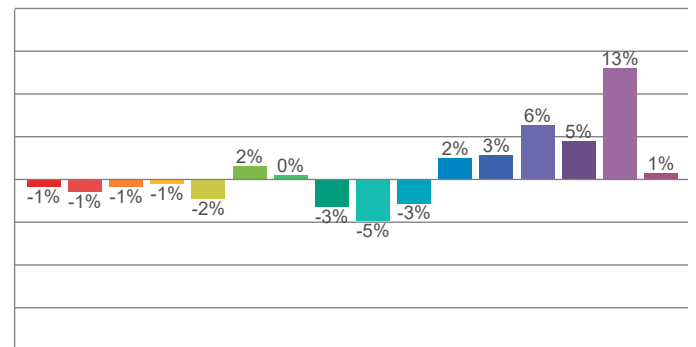




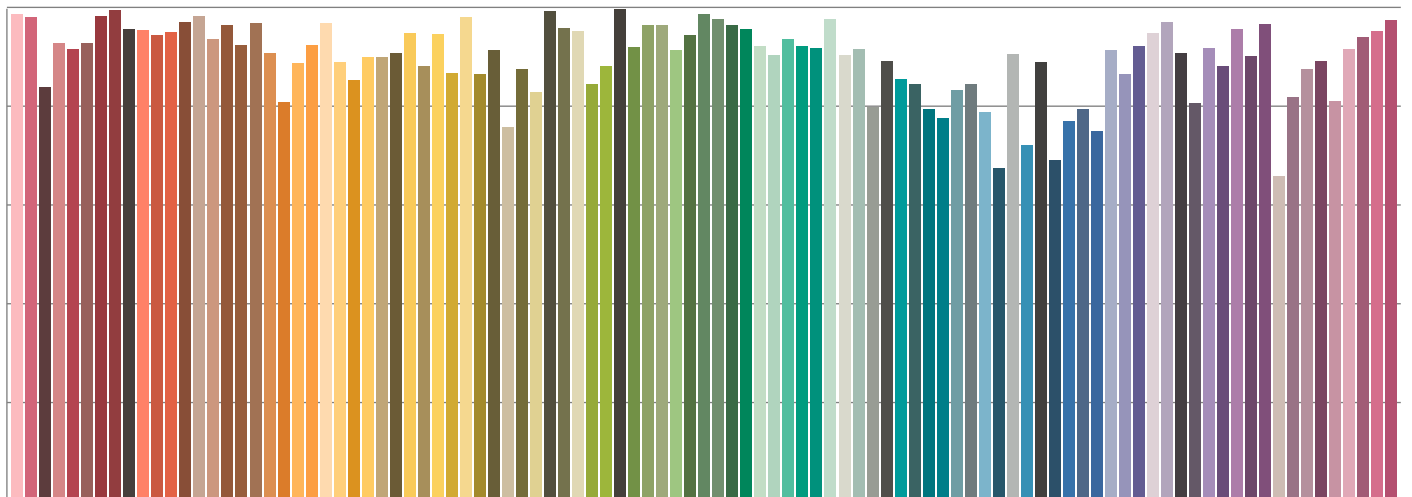
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)

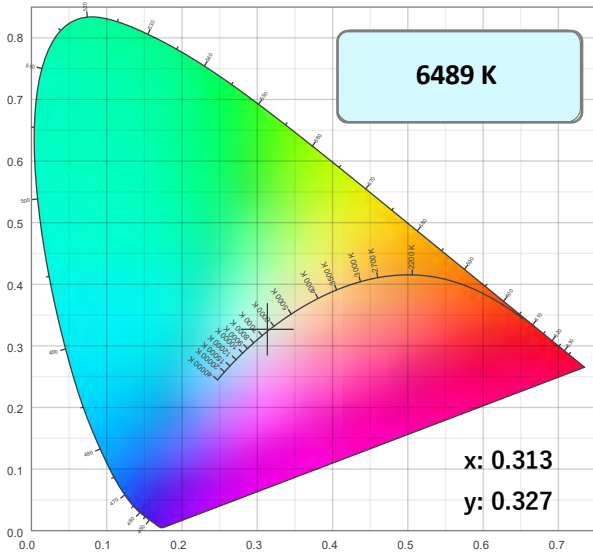


Color Temperature: 6489K

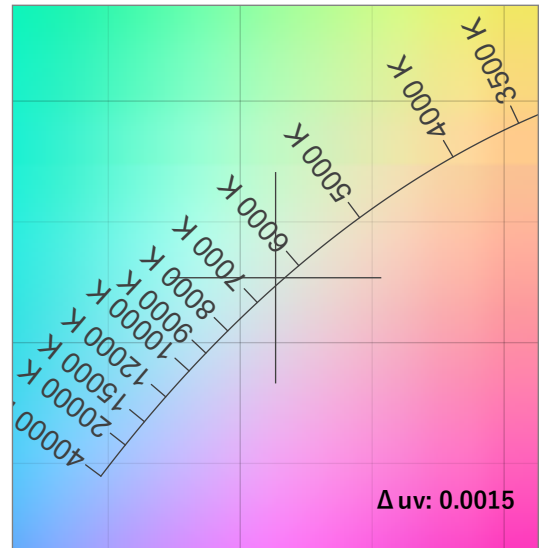
Accuracy Metric Overview

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	Δuv	SSIt	SSId
91.4	79.2	87.8	99.6	92	88.1	0.313	0.327	0.0015	23	58

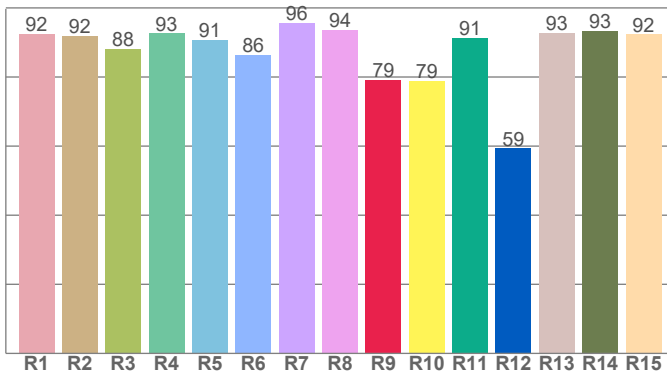
CIE 1931



CIE 1931 ZOOMED

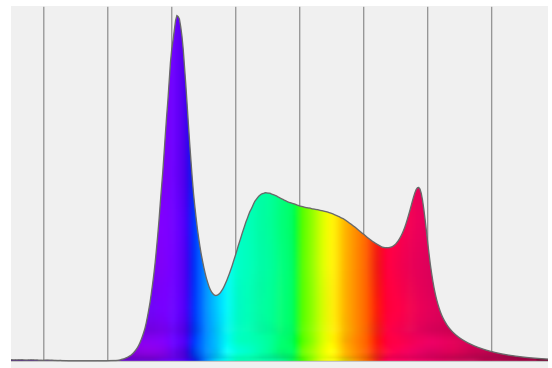


CRI: 91.4 (R1-R8)



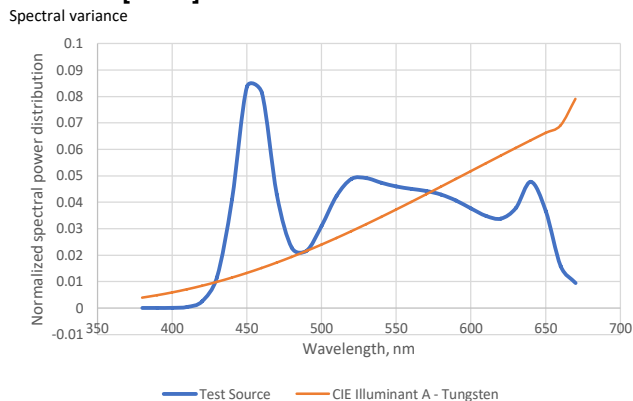
Spectral Power Distribution (SPD)

Dominant Wavelength 360 nm



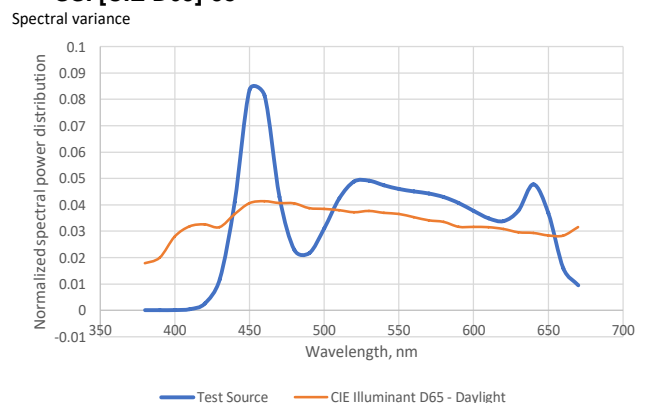
SSI Spectral Variance Graph- Tungsten

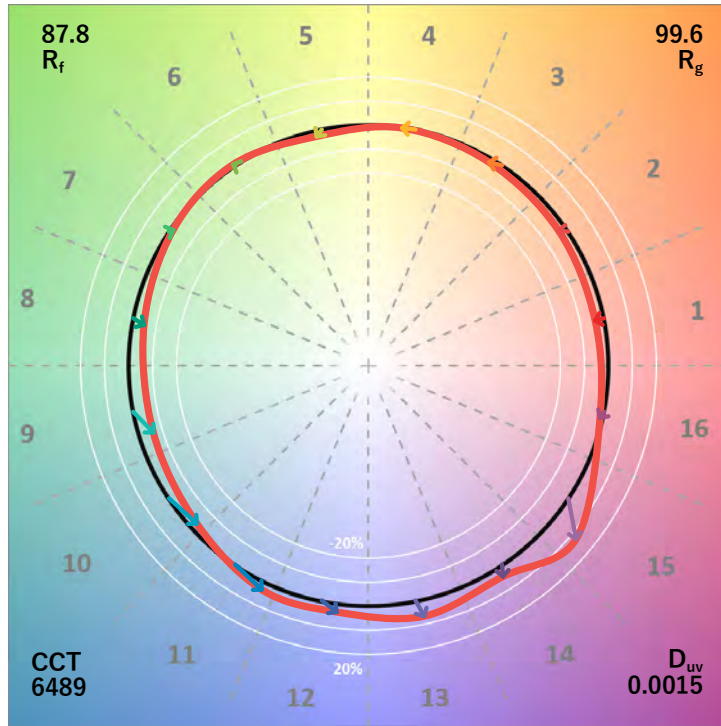
SSI [CIE A] 23



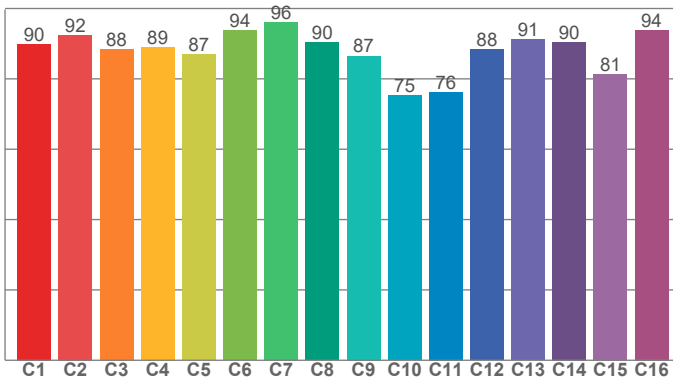
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 58

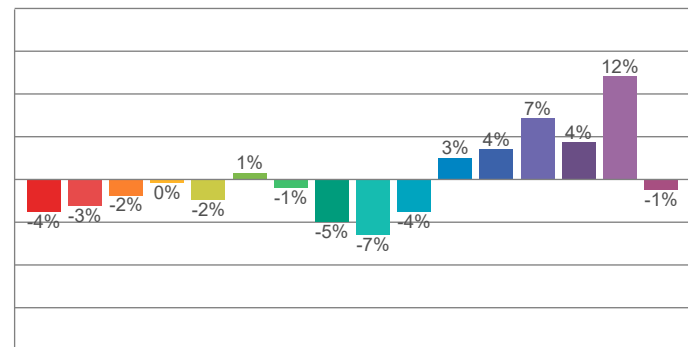




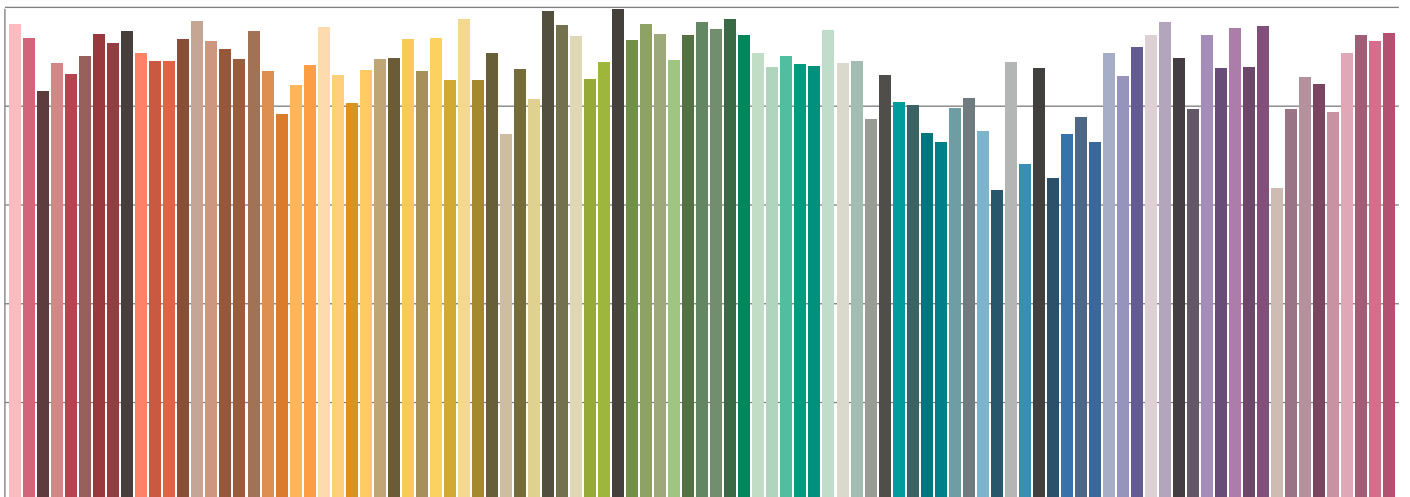
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin

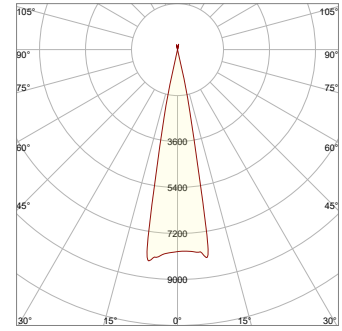
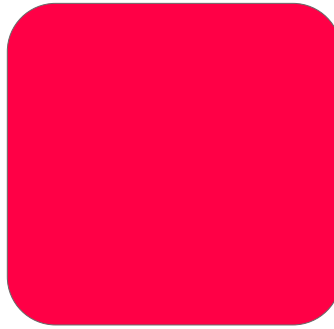


TM30-18 R_f Values per Reference Color (CES)



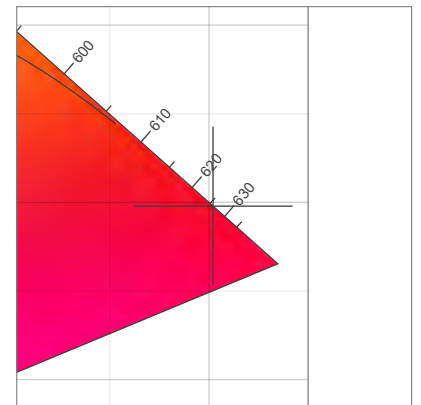
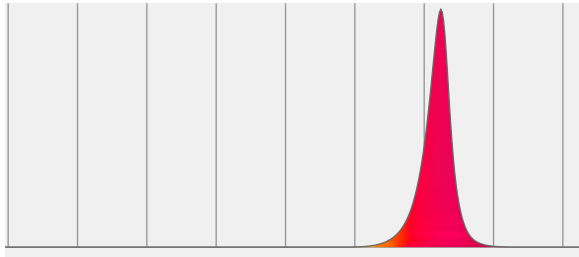
Measurements

Total Lumen Output: 889 lm
 Peak Intensity: 7961 cd
 Efficacy: 6 Lumen/Watt
 Power: 138 W
 Voltage: 119 V, Current: - A



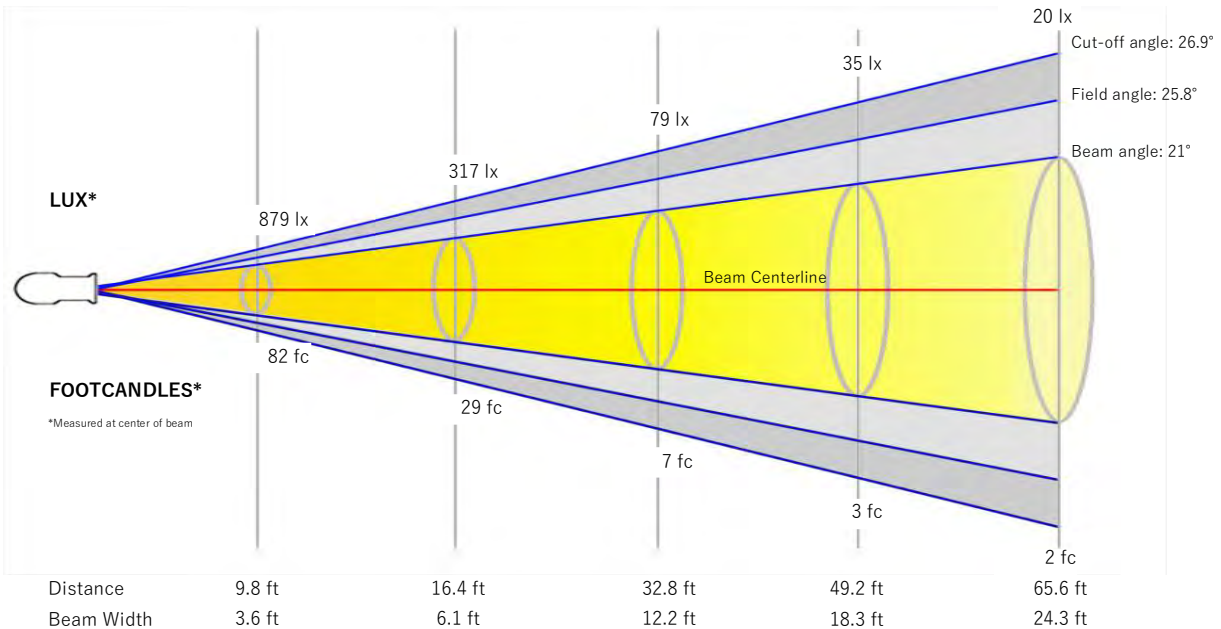
Spectral Power Distribution

Dominant Wavelength 626 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
626	0.702	0.298	0.543	0.346

15 m 20 m 10 m 15 m 20 m
 5.6 m 7.4 m 3.7 m 5.6 m 7.4 m

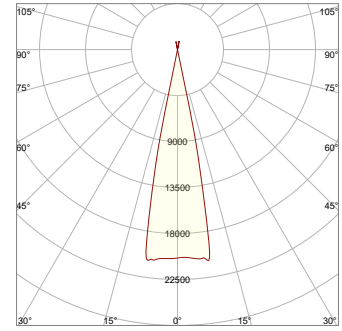
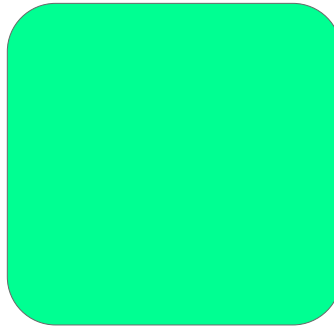


Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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
LX	7914	1979	879	495	317	220	162	124	98	79	65	55	47	40	35	31	27	24	22	20
FC	735.3	183.8	81.7	46	29.4	20.4	15	11.5	9.1	7.4	6.1	5.1	4.4	3.8	3.3	2.9	2.5	2.3	2	1.8

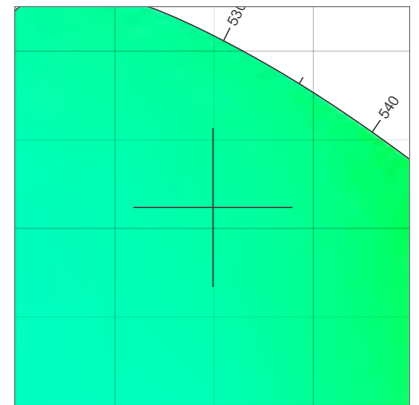
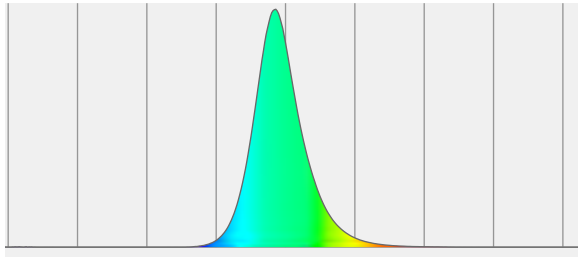
Measurements

Total Lumen Output: 2355 lm
 Peak Intensity: 20542 cd
 Efficacy: 13 Lumen/Watt
 Power: 181 W
 Voltage: 121 V, Current: - A



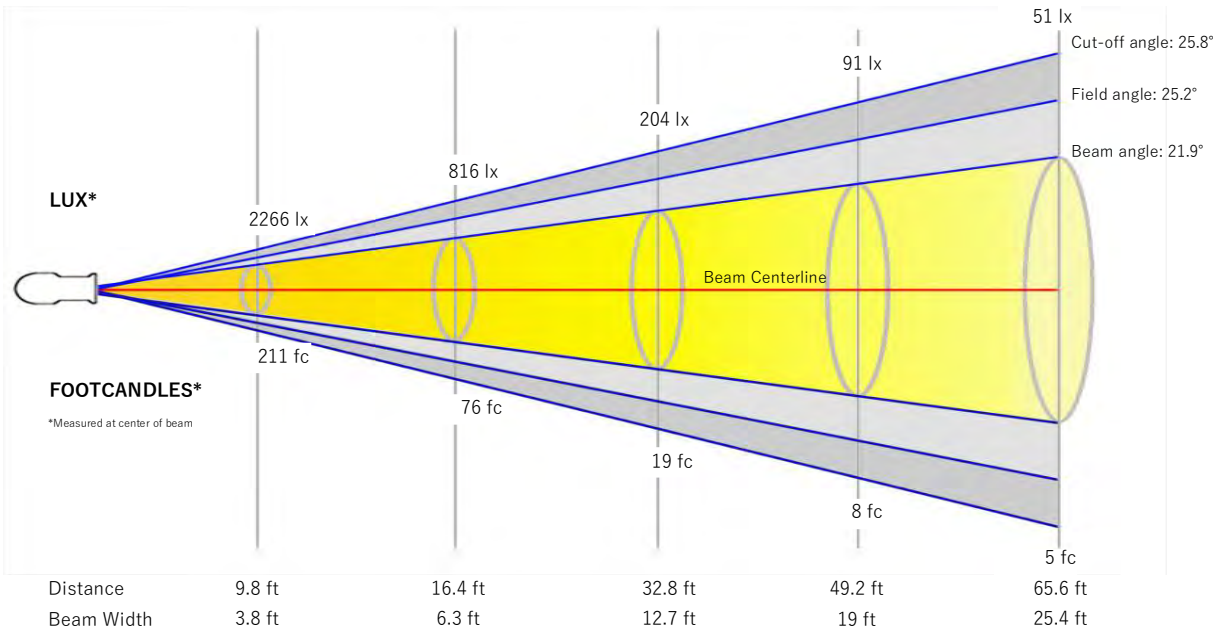
Spectral Power Distribution

Dominant Wavelength 523 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
523	0.149	0.712	0.053	0.380

15 m 20 m 10 m 15 m 20 m
 5.8 m 7.7 m 3.9 m 5.8 m 7.7 m

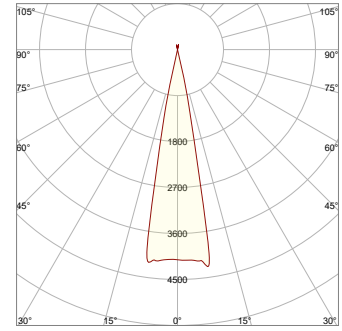
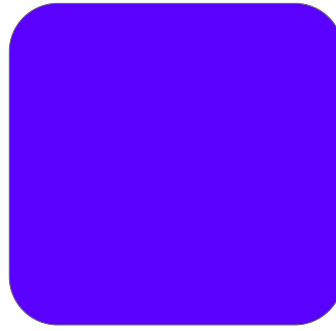


Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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
LX	20396	5099	2266	1275	816	567	416	319	252	204	169	142	121	104	91	80	71	63	56	51
FC	1894.9	473.7	210.5	118.4	75.8	52.6	38.7	29.6	23.4	18.9	15.7	13.2	11.2	9.7	8.4	7.4	6.6	5.8	5.2	4.7

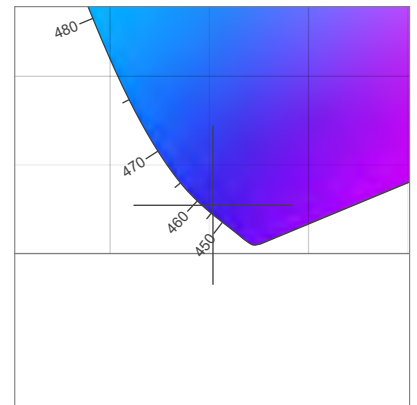
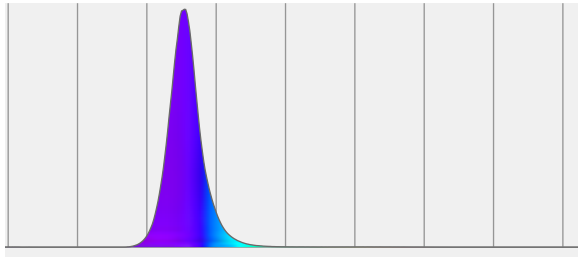
Measurements

Total Lumen Output: 454 lm
 Peak Intensity: 4152 cd
 Efficacy: 3 Lumen/Watt
 Power: 169 W
 Voltage: 120 V, Current: - A



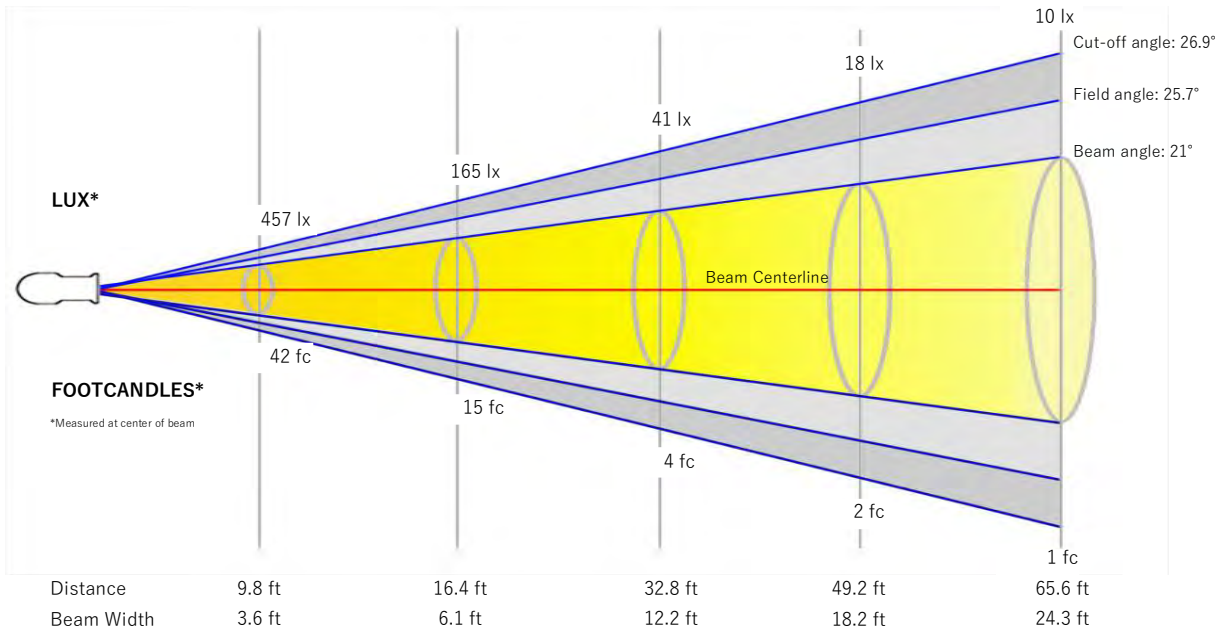
Spectral Power Distribution

Dominant Wavelength 456 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
456	0.152	0.027	0.201	0.054

15 m 20 m 10 m 15 m 20 m
 5.6 m 7.4 m 3.7 m 5.6 m 7.4 m

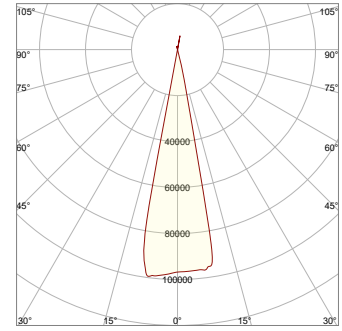
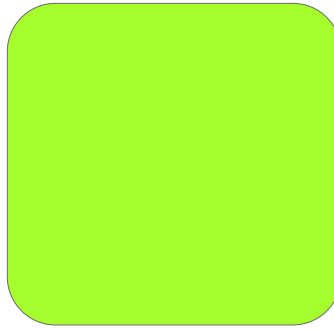


Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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
LX	4114	1029	457	257	165	114	84	64	51	41	34	29	24	21	18	16	14	13	11	10
FC	382.2	95.6	42.5	23.9	15.3	10.6	7.8	6	4.7	3.8	3.2	2.7	2.3	2	1.7	1.5	1.3	1.2	1.1	1

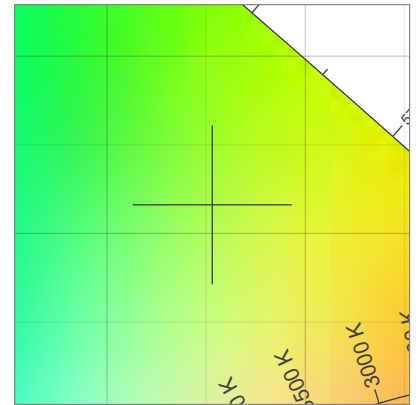
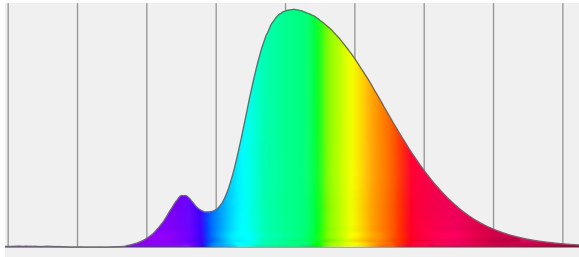
Measurements

Total Lumen Output: 11008 lm
 Peak Intensity: 96762 cd
 Efficacy: 33 Lumen/Watt
 Power: 330 W
 Voltage: 120 V, Current: - A



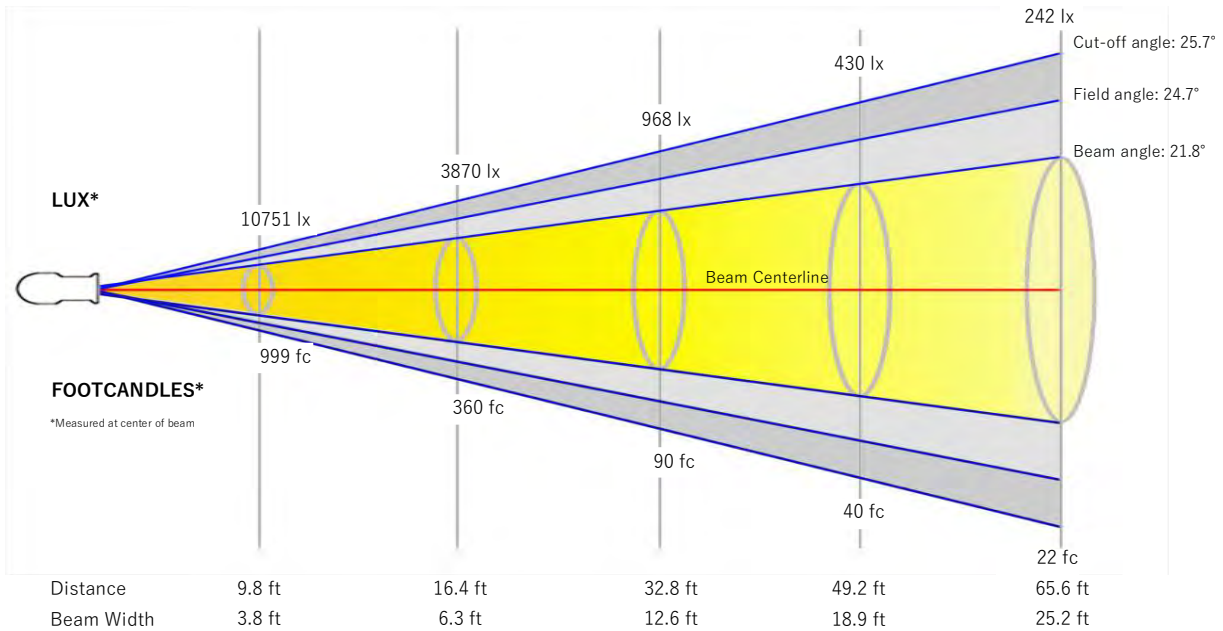
Spectral Power Distribution

Dominant Wavelength 560 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
560	0.353	0.516	0.166	0.365

15 m 20 m 10 m 15 m 20 m
 5.8 m 7.7 m 3.8 m 5.8 m 7.7 m

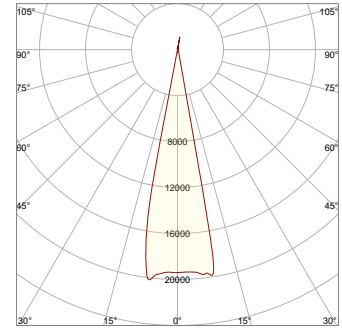
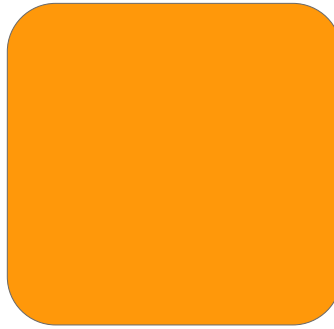


Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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
LX	96762	24191	10751	6048	3870	2688	1975	1512	1195	968	800	672	573	494	430	378	335	299	268	242
FC	8989.5	2247.4	998.8	561.8	359.6	249.7	183.5	140.5	111	89.9	74.3	62.4	53.2	45.9	40	35.1	31.1	27.7	24.9	22.5

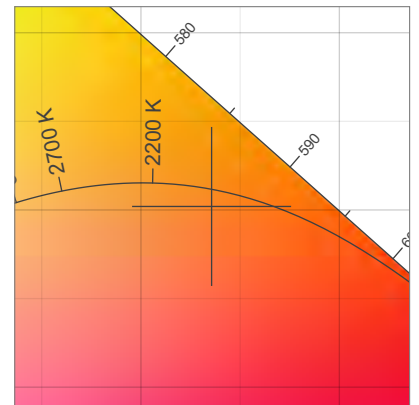
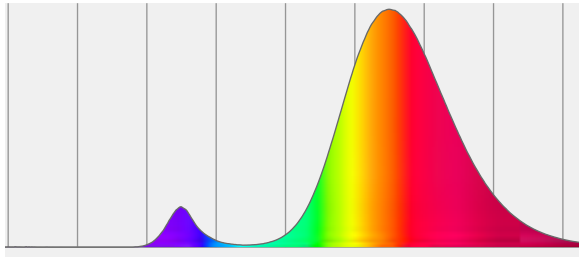
Measurements

Total Lumen Output: 2230 lm
 Peak Intensity: 19605 cd
 Efficacy: 10 Lumen/Watt
 Power: 214 W
 Voltage: 120 V, Current: - A



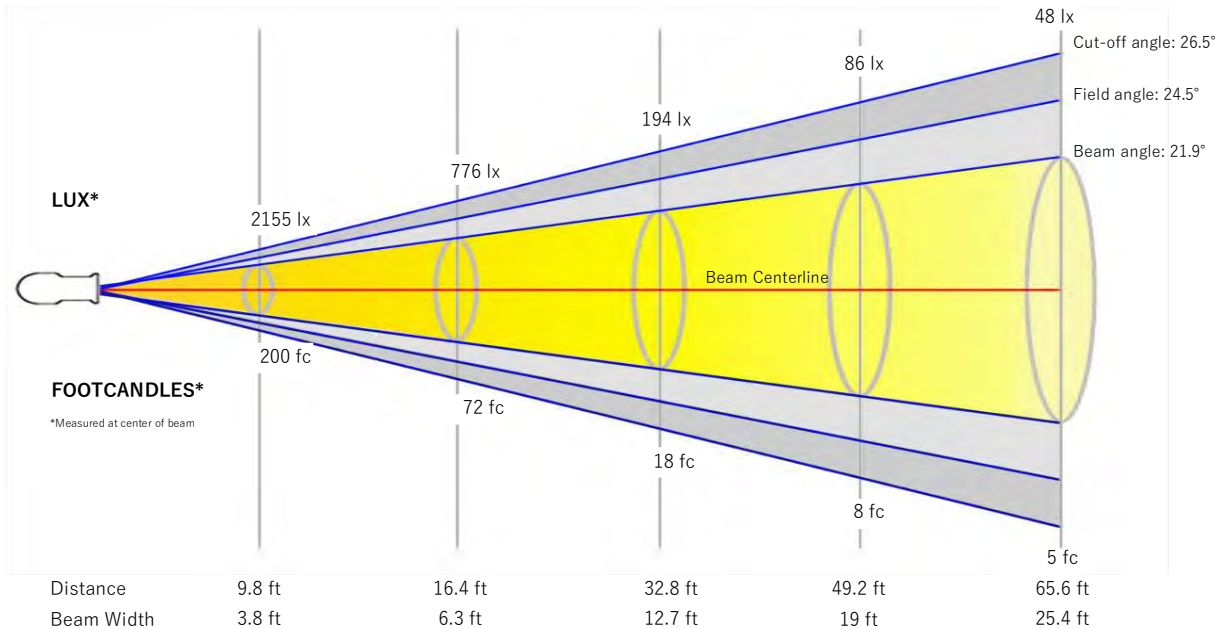
Spectral Power Distribution

Dominant Wavelength 591 nm



Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
591	0.536	0.402	0.317	0.357

15 m 20 m 10 m 15 m 20 m
 5.8 m 7.7 m 3.9 m 5.8 m 7.7 m



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
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
LX	19398	4849	2155	1212	776	539	396	303	239	194	160	135	115	99	86	76	67	60	54	48
FC	1802.1	450.5	200.2	112.6	72.1	50.1	36.8	28.2	22.2	18	14.9	12.5	10.7	9.2	8	7	6.2	5.6	5	4.5