KL FRESNEL 6 FC

Photometric &

Chromaticity Test Reports

C O N T E N T S

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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

KL Fresnel 6 FC (Narrow, Full Output)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3260 lm

Peak Intensity: 75109 cd

Beam

Beam Angle (50%): 10.1°

Field Angle (10%): 19.5°

Cutoff Angle (2.5%): 28.2°

Color

Color Temperature: 6732 K

CRI: 85.6

TLCI: 91

TM30 R_F: 86.0

TM30 R_g: 109.4

Power Details

Efficacy: 15 Lumen/Watt

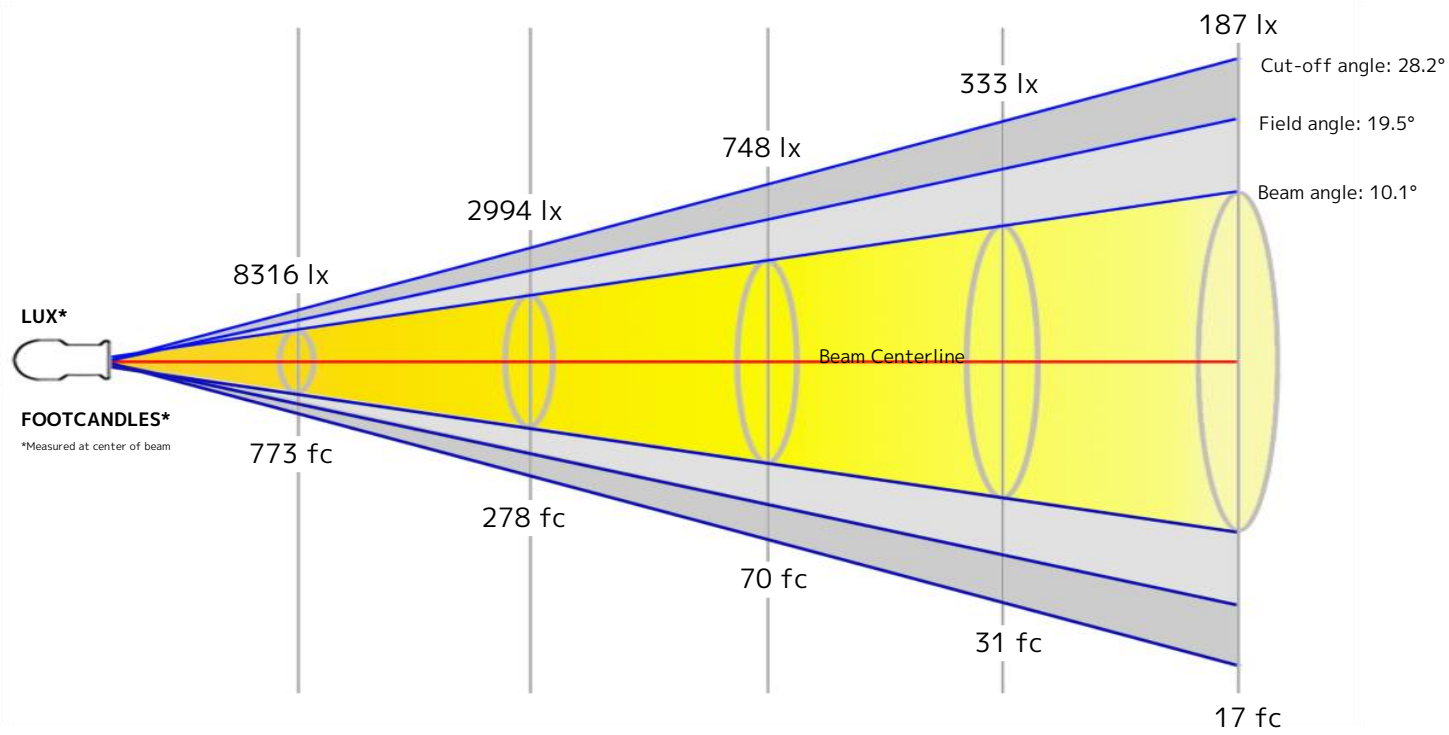
Power: 214.1 W

Supply Voltage: 118 V

Current: 1.88 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.7 m	3.5 m



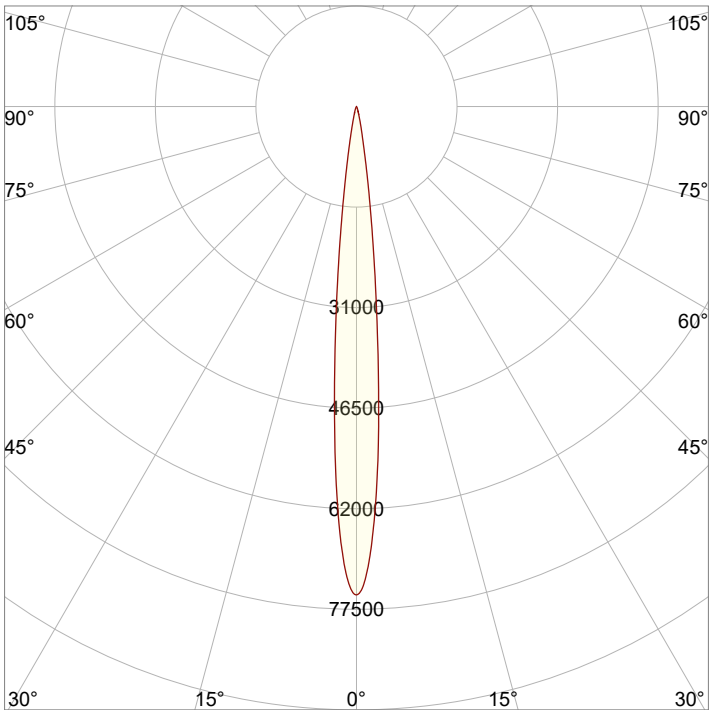
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.8 ft	8.7 ft	11.6 ft

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	74842	18710	8316	4678	2994	2079	1527	1169	924	748	619	520	443	382	333	292	259	231	207	187
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	6953	1738.3	772.6	434.6	278.1	193.1	141.9	108.6	85.8	69.5	57.5	48.3	41.1	35.5	30.9	27.2	24.1	21.5	19.3	17.4

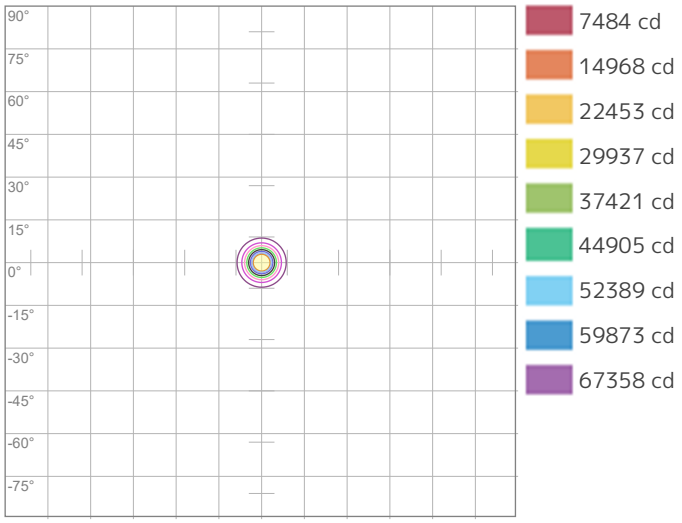
Measurement Date: 11/14/2023

Angular Distribution



Beam Angle - 50%
10.1°
Field Angle - 10%
19.5°
Cutoff Angle - 2.5%
28.2°

ISO Diagrams

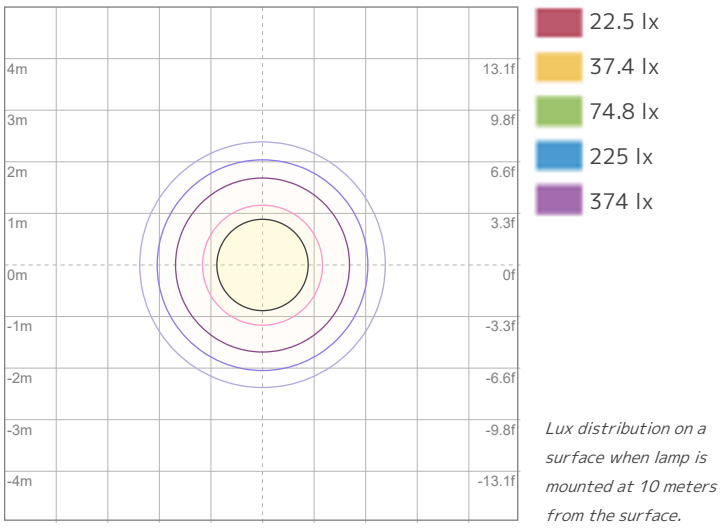


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 74842 cd



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

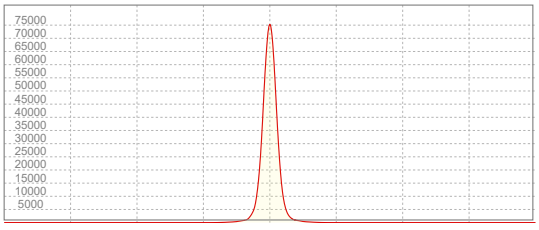
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 748 lx

Linear Distribution



Peak Candela
75109 cd

Calculate Center Beam Intensities

lux = 75109 / distance(m)^2

fc = 75109 / distance(ft)^2

Measurement Date: 11/14/2023

KL Fresnel 6 FC (Narrow, 2700K)

Key Measurements

Output

Total Lumen Output: 3171 lm

Peak Intensity: 76522 cd

Beam

Beam Angle (50%): 10°

Field Angle (10%): 19.3°

Cutoff Angle (2.5%): 27.4°

Color

Color Temperature: 2637 K

CRI: 91.8

TLCI: 90

TM30 R_F: 93.6

TM30 R_g: 103.9

Power Details

Efficacy: 15 Lumen/Watt

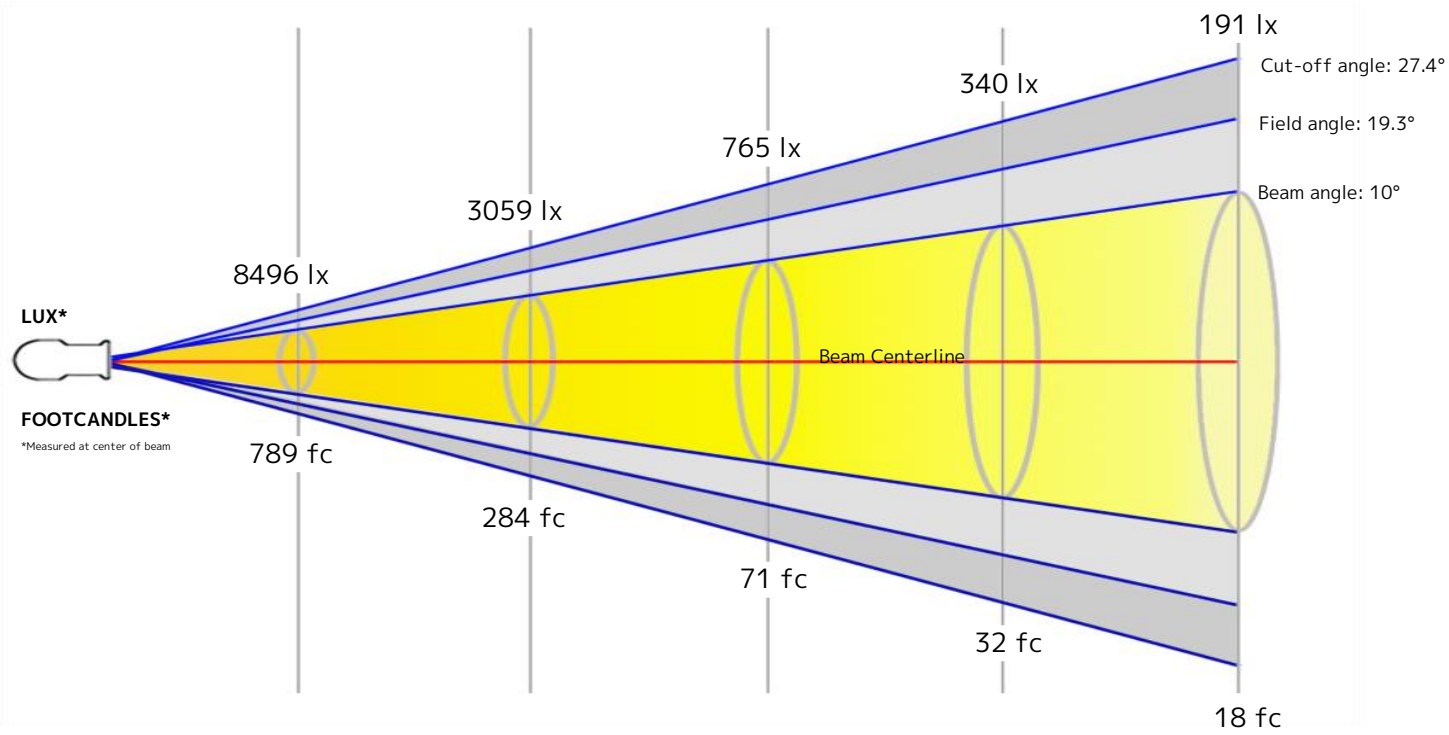
Power: 209.6 W

Supply Voltage: 117 V

Current: 1.85 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.6 m	3.5 m



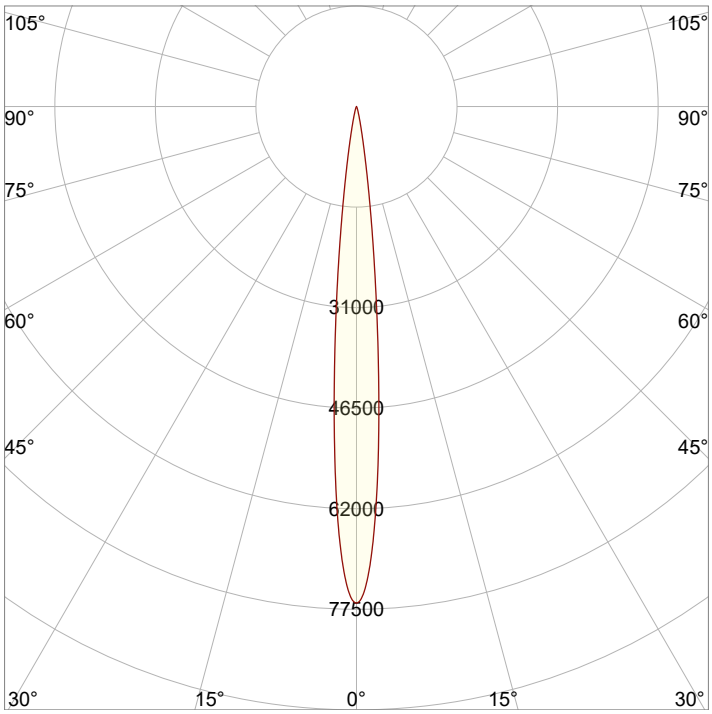
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.7 ft	8.6 ft	11.5 ft

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	76466	19116	8496	4779	3059	2124	1561	1195	944	765	632	531	452	390	340	299	265	236	212	191
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	7103.9	1776	789.3	444	284.2	197.3	145	111	87.7	71	58.7	49.3	42	36.2	31.6	27.7	24.6	21.9	19.7	17.8

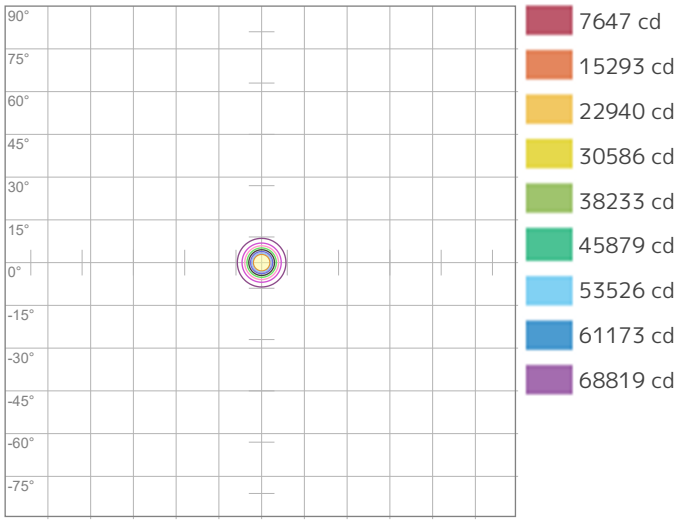
Measurement Date: 11/14/2023

Angular Distribution



Beam Angle - 50%
10°
Field Angle - 10%
19.3°
Cutoff Angle - 2.5%
27.4°

ISO Diagrams

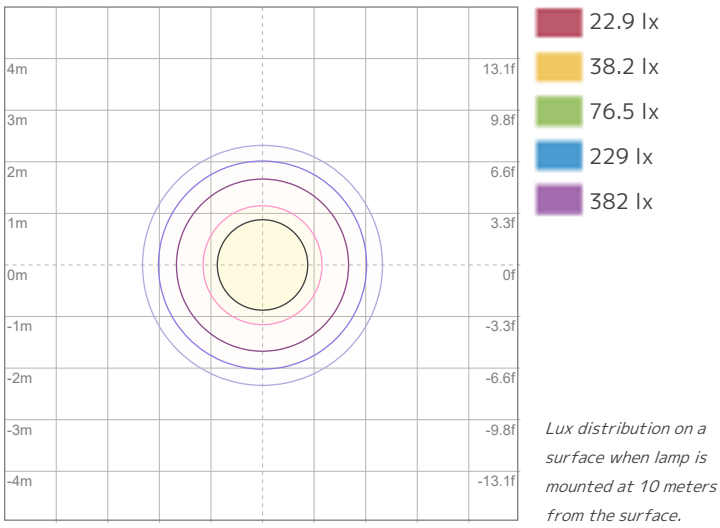


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 76466 cd



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

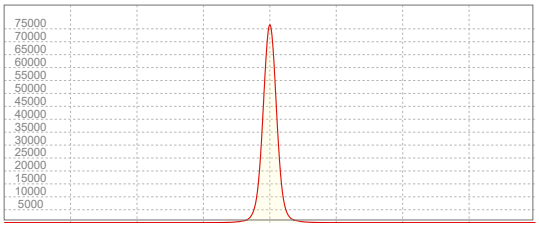
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 765 lx

Linear Distribution



Peak Candela

76522 cd

Calculate Center Beam Intensities

lux = 76522 / distance(m)^2

fc = 76522 / distance(ft)^2

Measurement Date: 11/14/2023

KL Fresnel 6 FC (Narrow, 3200K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3407 lm

Peak Intensity: 78639 cd

Beam

Beam Angle (50%): 10°

Field Angle (10%): 19.4°

Cutoff Angle (2.5%): 28°

Color

Color Temperature: 3196 K

CRI: 92.9

TLCI: 92

TM30 R_F: 93.4

TM30 R_g: 104.4

Power Details

Efficacy: 17 Lumen/Watt

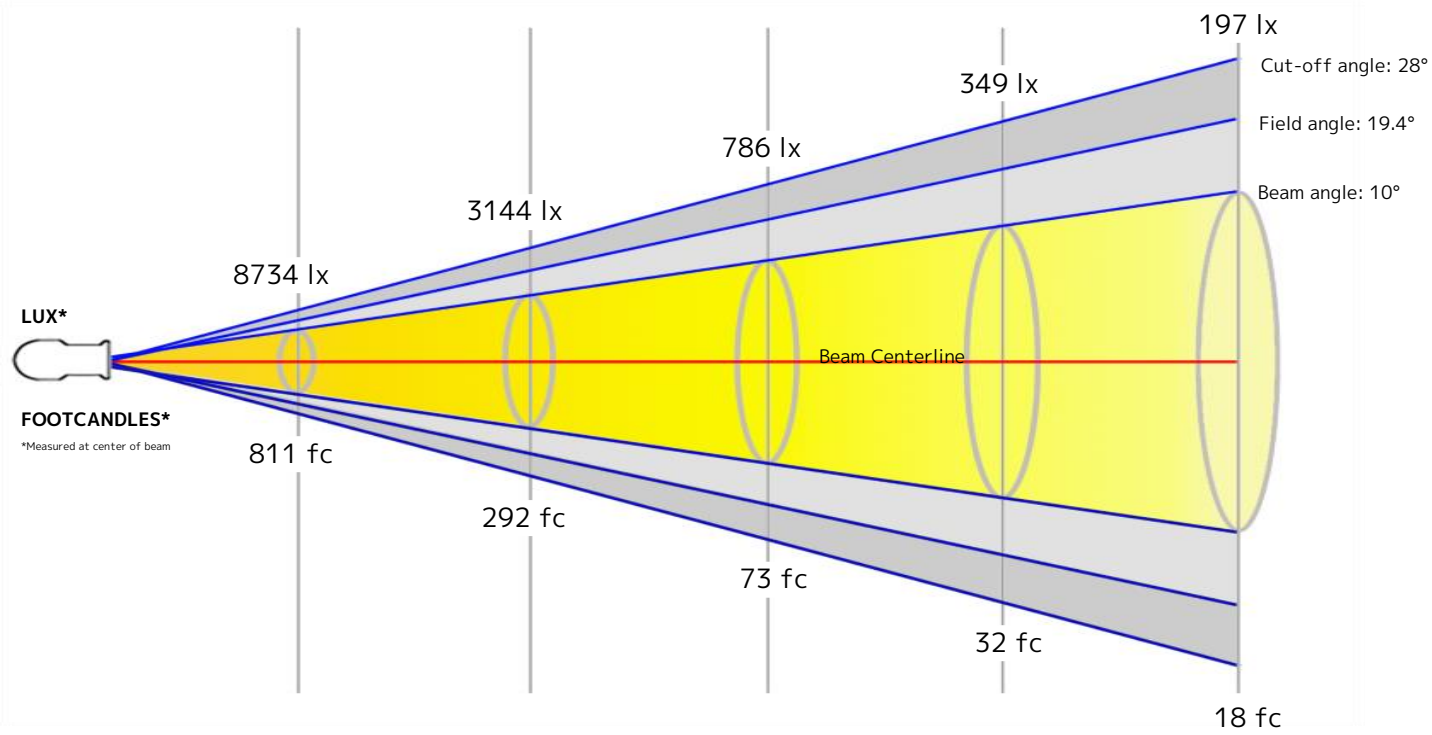
Power: 202 W

Supply Voltage: 116 V

Current: 1.79 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.6 m	3.5 m



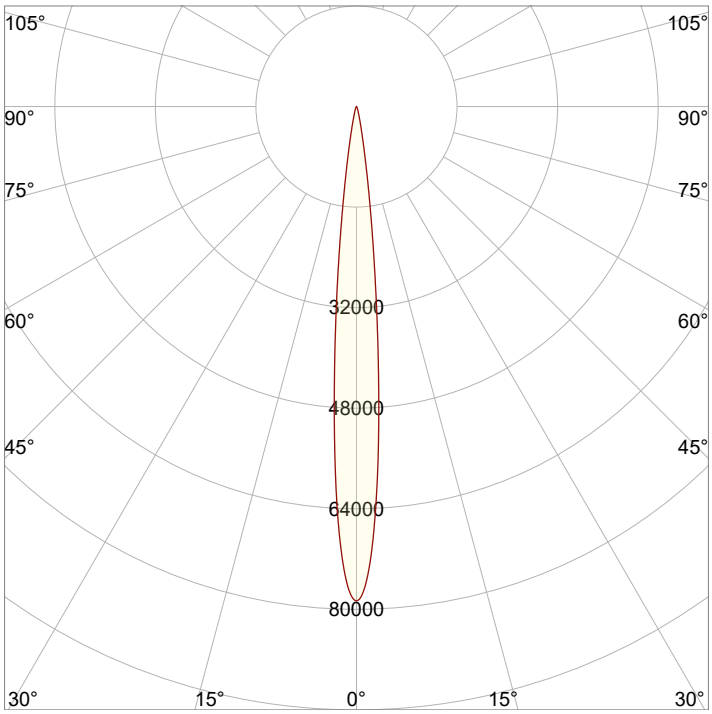
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.8 ft	8.6 ft	11.5 ft

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	78605	19651	8734	4913	3144	2183	1604	1228	970	786	650	546	465	401	349	307	272	243	218	197
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	7302.6	1825.7	811.4	456.4	292.1	202.9	149	114.1	90.2	73	60.4	50.7	43.2	37.3	32.5	28.5	25.3	22.5	20.2	18.3

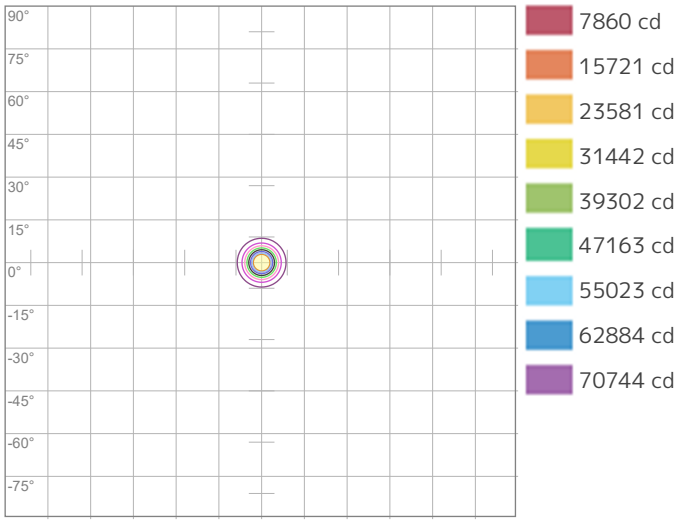
Measurement Date: 11/14/2023

Angular Distribution



Beam Angle - 50%
10°
Field Angle - 10%
19.4°
Cutoff Angle - 2.5%
28°

ISO Diagrams

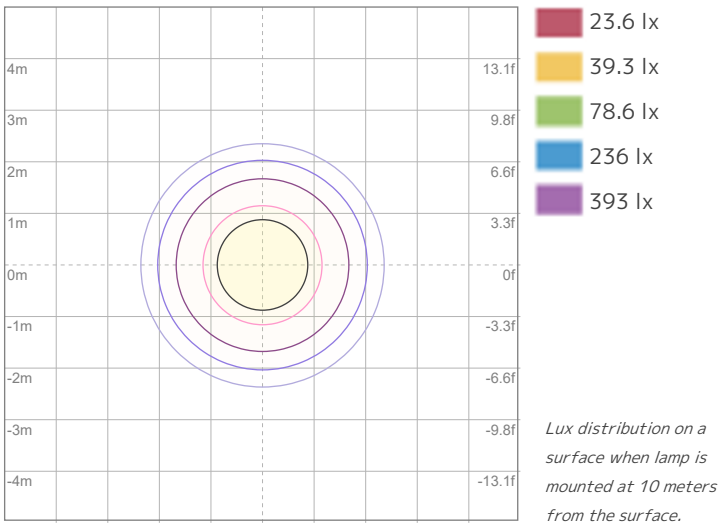


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 78605 cd



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

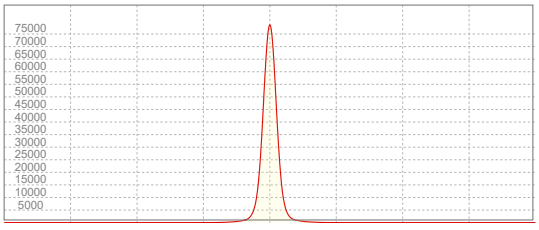
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 786 lx

Linear Distribution



Peak Candela

78639 cd

Calculate Center Beam Intensities

lux = 78639 / distance(m)^2

fc = 78639 / distance(ft)^2

Measurement Date: 11/14/2023

KL Fresnel 6 FC (Narrow, 4000K)

Key Measurements

Output

Total Lumen Output: 3541 lm

Peak Intensity: 79010 cd

Beam

Beam Angle (50%): 10.1°

Field Angle (10%): 19.6°

Cutoff Angle (2.5%): 28.4°

Color

Color Temperature: 4010 K

CRI: 92.7

TLCI: 91

TM30 R_F: 91.9

TM30 R_g: 103.3

Power Details

Efficacy: 18 Lumen/Watt

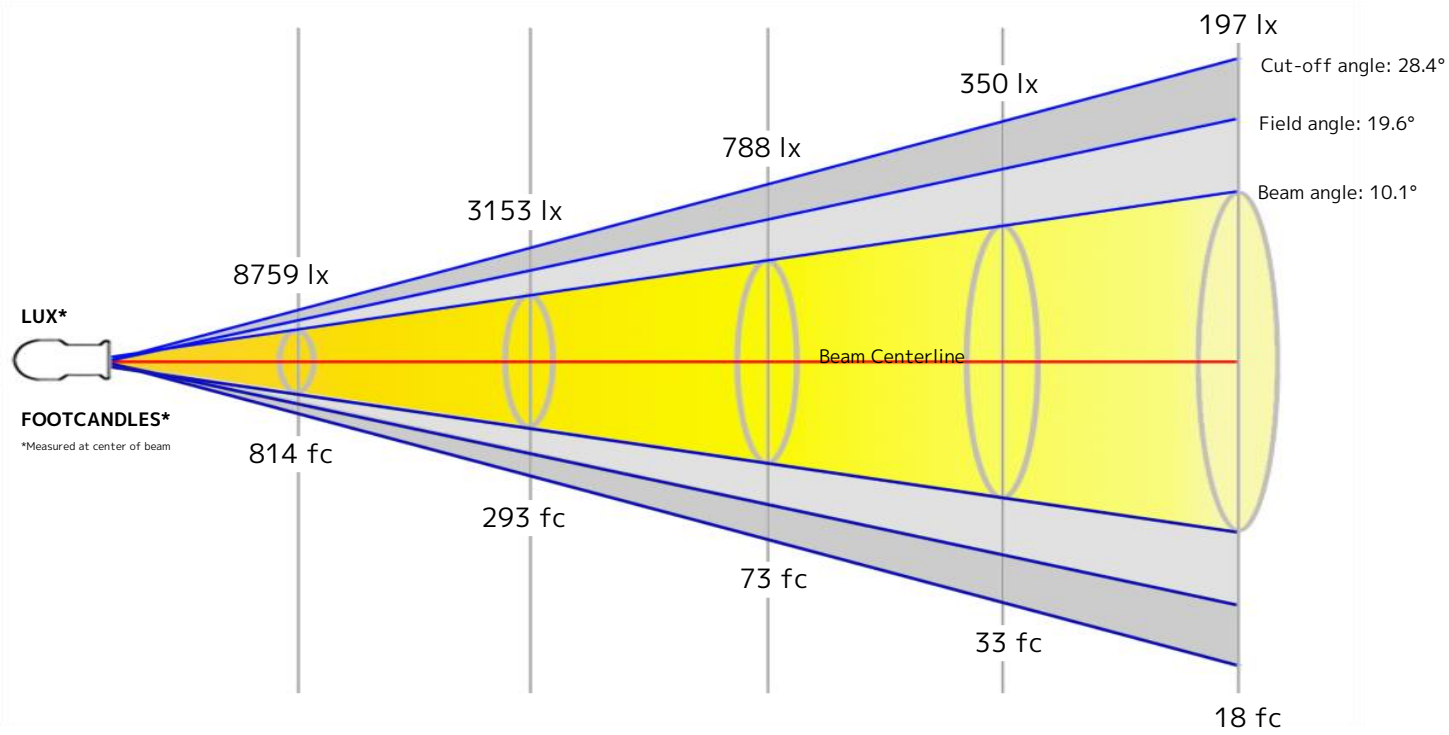
Power: 200.3 W

Supply Voltage: 117 V

Current: 1.77 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.7 m	3.5 m



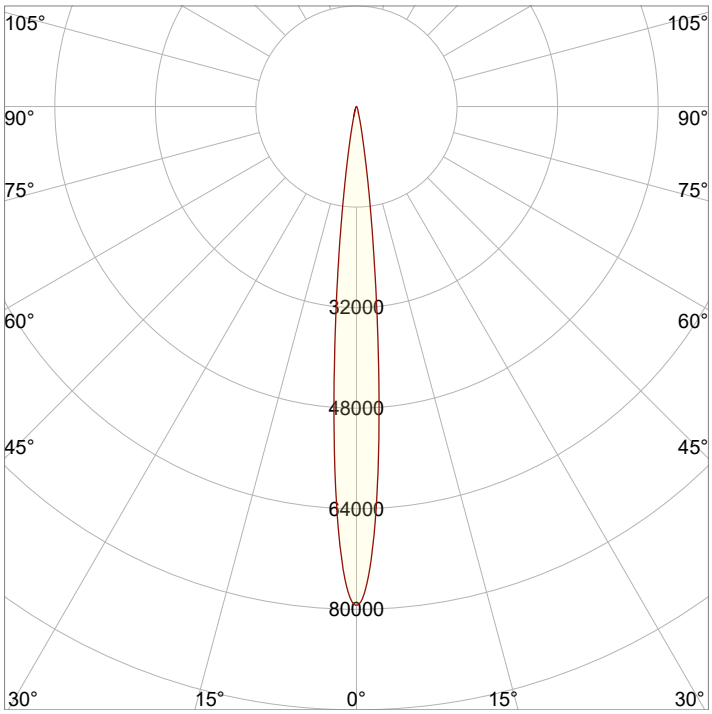
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.8 ft	8.7 ft	11.6 ft

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	78834	19709	8759	4927	3153	2190	1609	1232	973	788	652	547	466	402	350	308	273	243	218	197
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	7323.9	1831	813.8	457.7	293	203.4	149.5	114.4	90.4	73.2	60.5	50.9	43.3	37.4	32.6	28.6	25.3	22.6	20.3	18.3

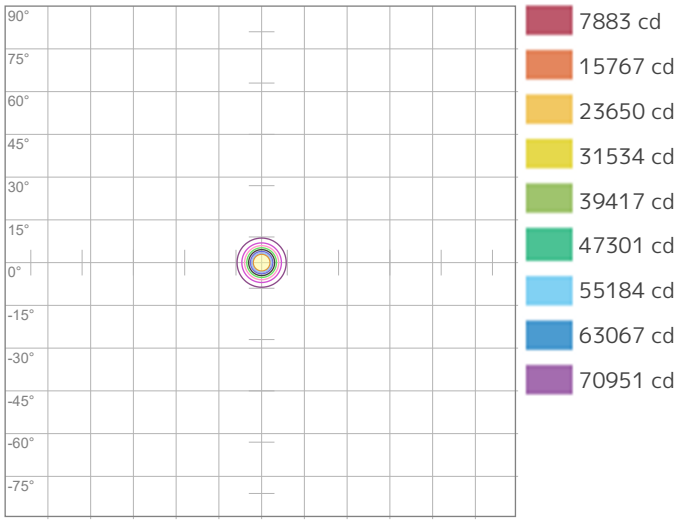
Measurement Date: 11/14/2023

Angular Distribution



Beam Angle - 50%
10.1°
Field Angle - 10%
19.6°
Cutoff Angle - 2.5%
28.4°

ISO Diagrams

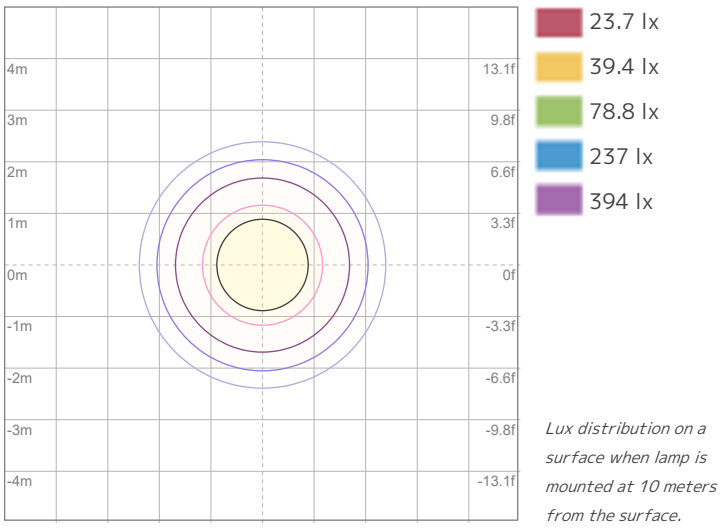


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 78834 cd



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

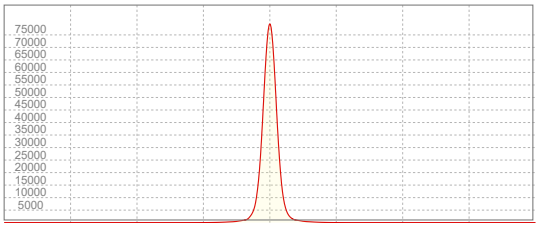
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 788 lx

Linear Distribution



Peak Candela

79010 cd

Calculate Center Beam Intensities

lux = 79010 / distance(m)^2

fc = 79010 / distance(ft)^2

Measurement Date: 11/14/2023

KL Fresnel 6 FC (Narrow, 4500K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3393 lm

Peak Intensity: 77777 cd

Beam

Beam Angle (50%): 10.1°

Field Angle (10%): 19.5°

Cutoff Angle (2.5%): 28.2°

Color

Color Temperature: 4493 K

CRI: 92.4

TLCI: 91

TM30 R_F: 90.8

TM30 R_g: 103.5

Power Details

Efficacy: 17 Lumen/Watt

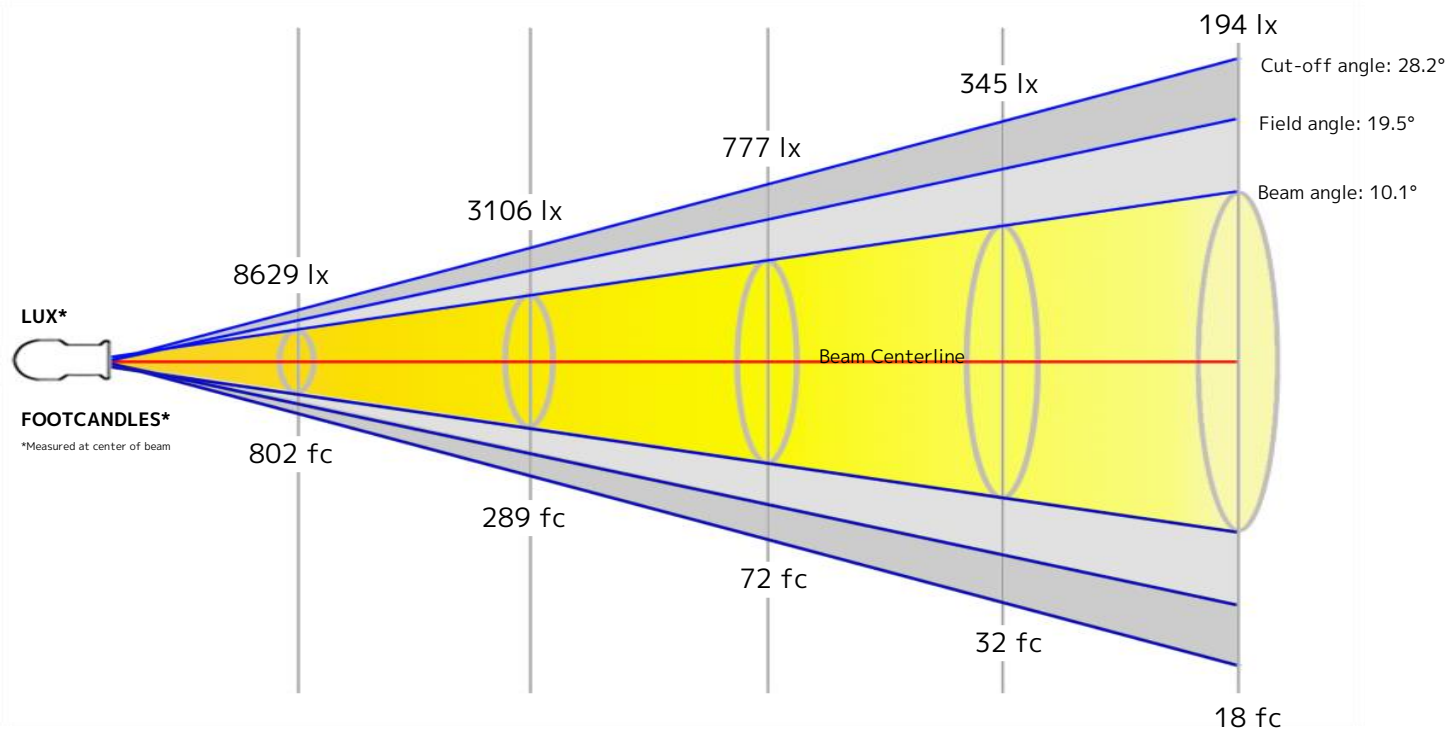
Power: 200.2 W

Supply Voltage: 116 V

Current: 1.78 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.6 m	3.5 m



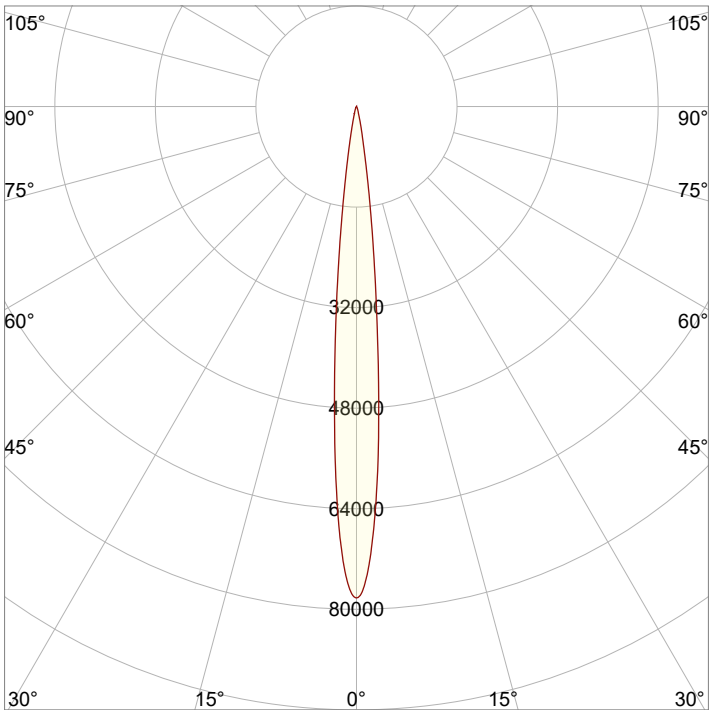
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.8 ft	8.7 ft	11.6 ft

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	77658	19414	8629	4854	3106	2157	1585	1213	959	777	642	539	460	396	345	303	269	240	215	194
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	7214.6	1803.7	801.6	450.9	288.6	200.4	147.2	112.7	89.1	72.1	59.6	50.1	42.7	36.8	32.1	28.2	25	22.3	20	18

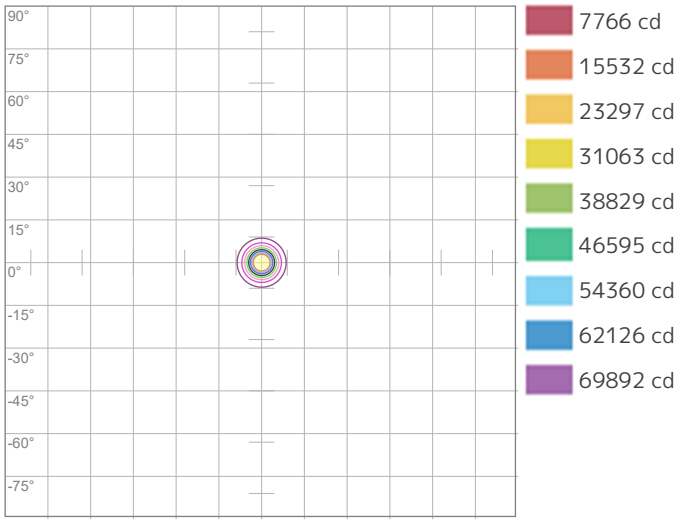
Measurement Date: 11/14/2023

Angular Distribution



Beam Angle - 50%
10.1°
Field Angle - 10%
19.5°
Cutoff Angle - 2.5%
28.2°

ISO Diagrams

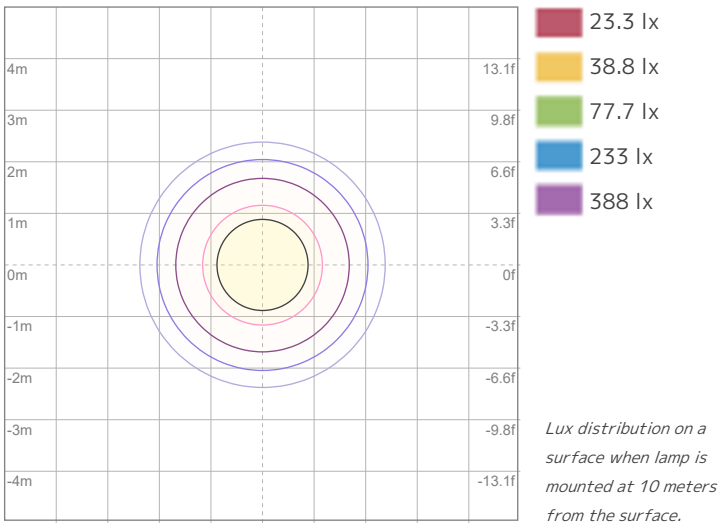


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 77658 cd



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

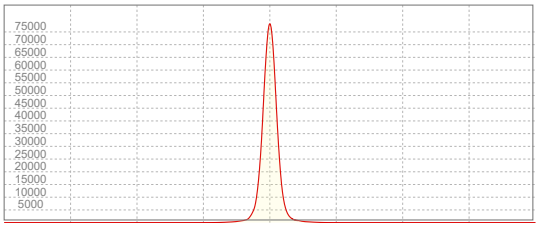
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 777 lx

Linear Distribution



Peak Candela
77777 cd

Calculate Center Beam Intensities

lux = 77777 / distance(m)^2

fc = 77777 / distance(ft)^2

Measurement Date: 11/14/2023

KL Fresnel 6 FC (Narrow, 5600K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3277 lm

Peak Intensity: 74310 cd

Beam

Beam Angle (50%): 10.1°

Field Angle (10%): 19.5°

Cutoff Angle (2.5%): 28.2°

Color

Color Temperature: 5611 K

CRI: 91.9

TLCI: 92

TM30 R_F: 90.2

TM30 R_g: 104.1

Power Details

Efficacy: 17 Lumen/Watt

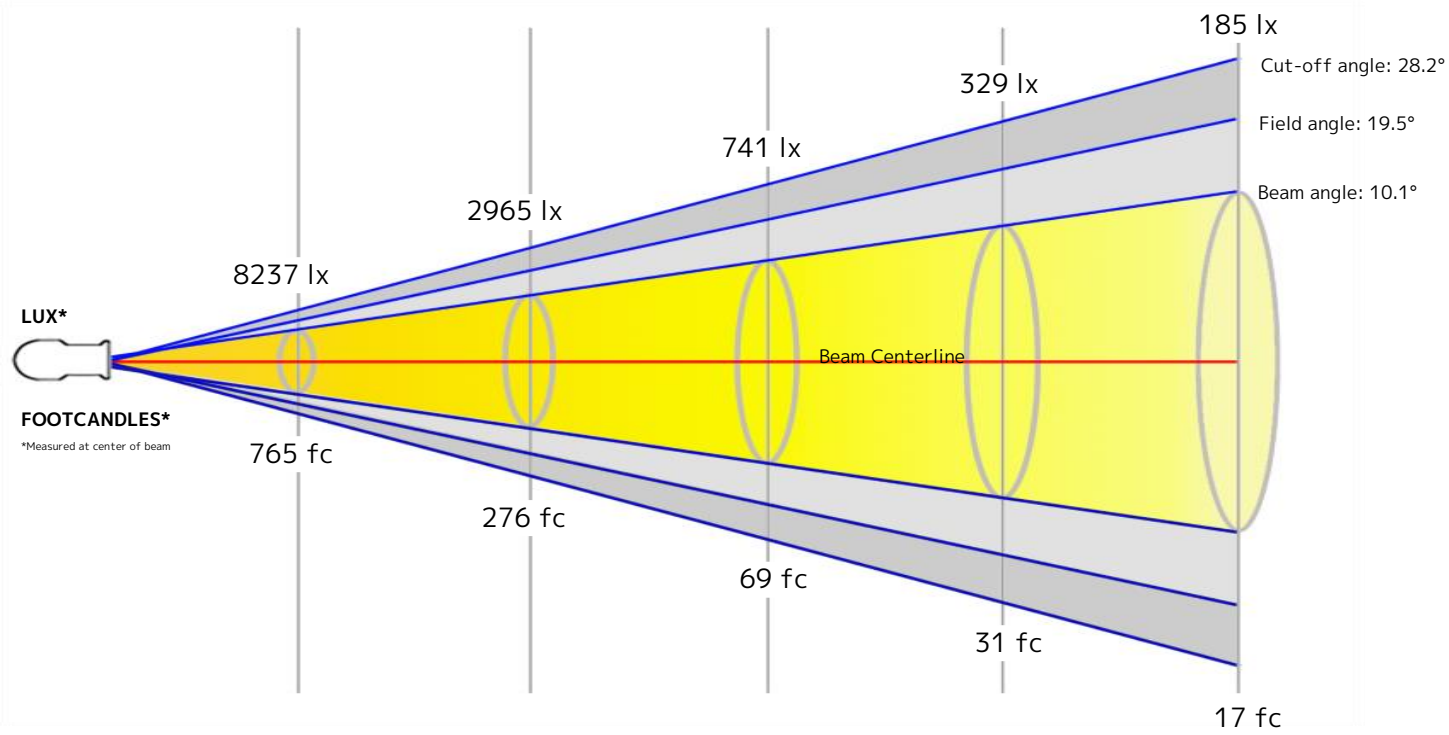
Power: 198.2 W

Supply Voltage: 117 V

Current: 1.75 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.7 m	3.5 m



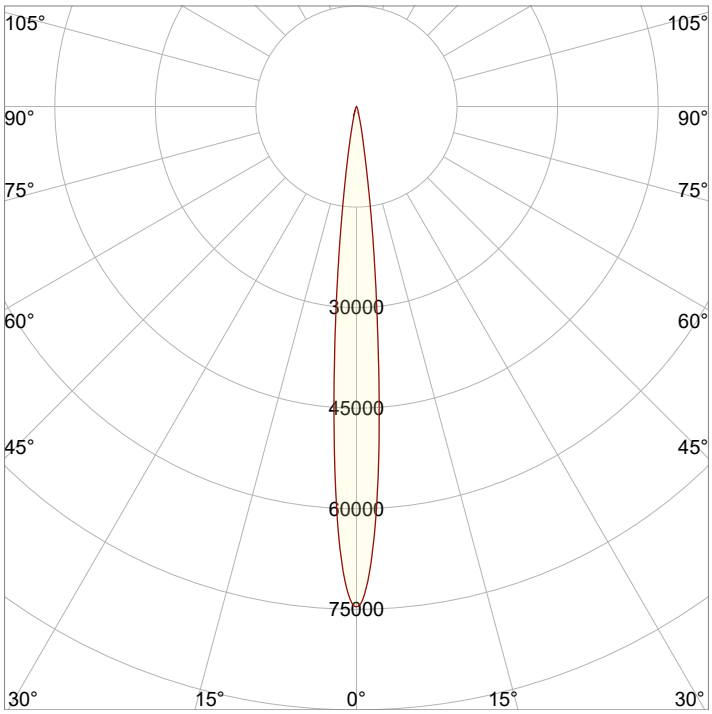
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.8 ft	8.7 ft	11.6 ft

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	74137	18534	8237	4634	2965	2059	1513	1158	915	741	613	515	439	378	329	290	257	229	205	185
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	6887.5	1721.9	765.3	430.5	275.5	191.3	140.6	107.6	85	68.9	56.9	47.8	40.8	35.1	30.6	26.9	23.8	21.3	19.1	17.2

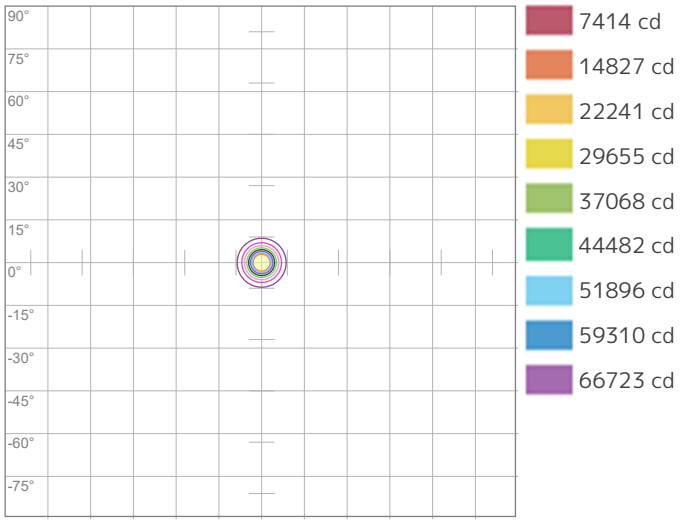
Measurement Date: 11/14/2023

Angular Distribution



Beam Angle - 50%
10.1°
Field Angle - 10%
19.5°
Cutoff Angle - 2.5%
28.2°

ISO Diagrams

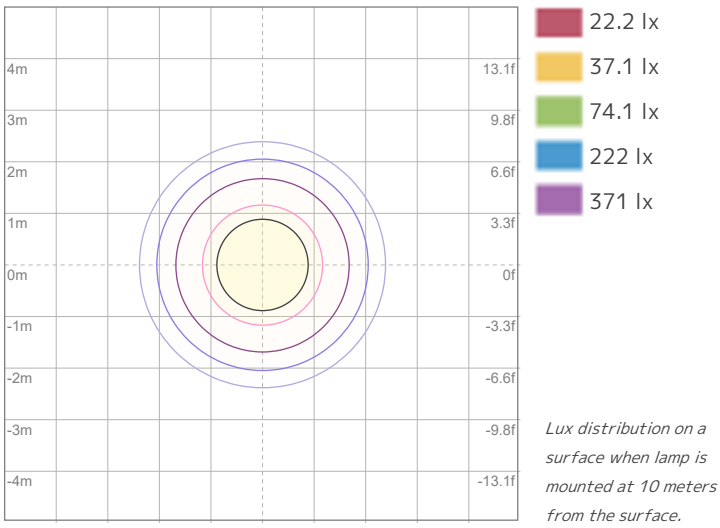


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 74137 cd



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

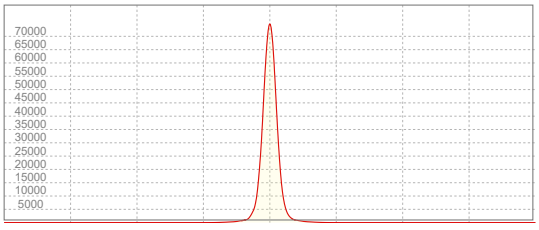
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 741 lx

Linear Distribution



Peak Candela

74310 cd

Calculate Center Beam Intensities

lux = 74310 / distance(m)^2

fc = 74310 / distance(ft)^2

Measurement Date: 11/14/2023

KL Fresnel 6 FC (Narrow, 6000K)

Key Measurements

Output

Total Lumen Output: 3458 lm

Peak Intensity: 76991 cd

Beam

Beam Angle (50%): 10.1°

Field Angle (10%): 19.5°

Cutoff Angle (2.5%): 28.4°

Color

Color Temperature: 6047 K

CRI: 91.7

TLCI: 92

TM30 R_F: 89.7

TM30 R_g: 103.6

Power Details

Efficacy: 17 Lumen/Watt

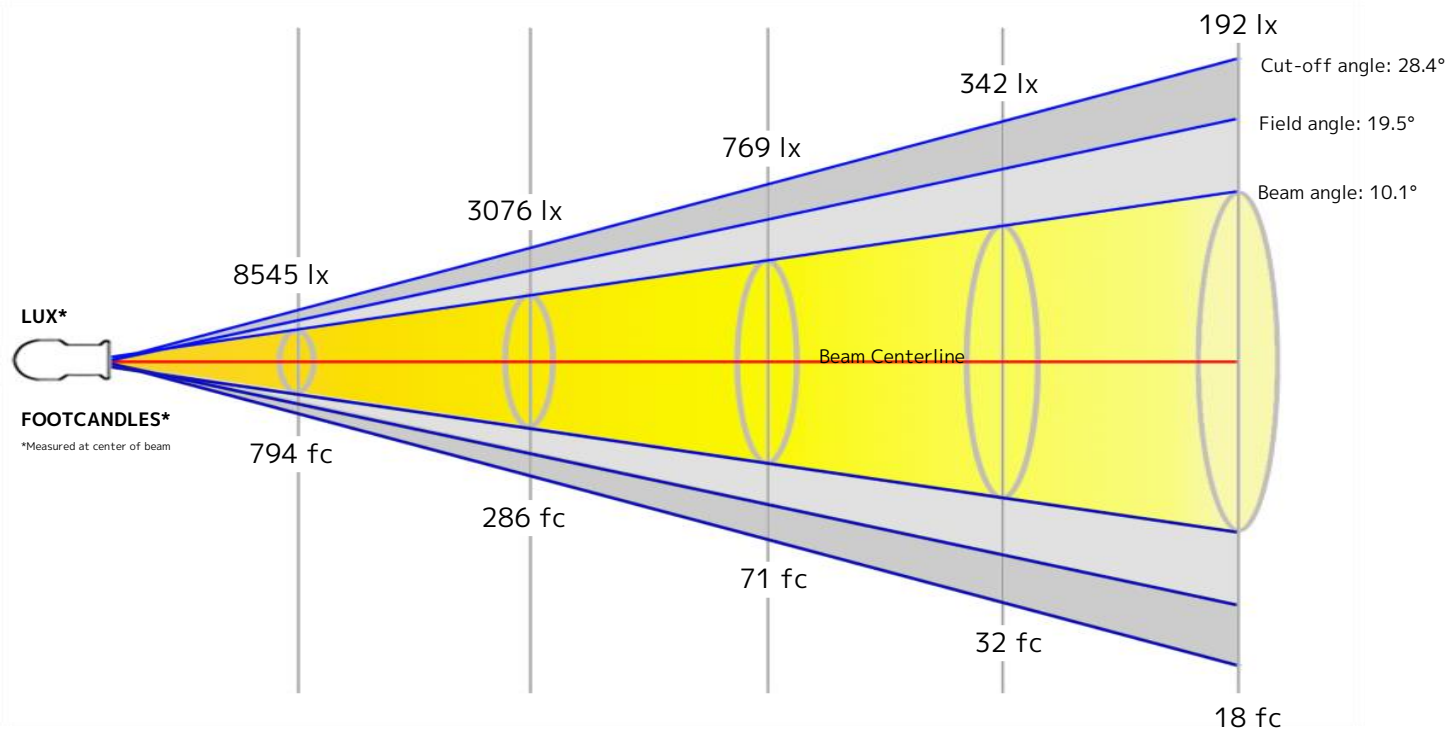
Power: 205.3 W

Supply Voltage: 118 V

Current: 1.80 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.6 m	3.5 m



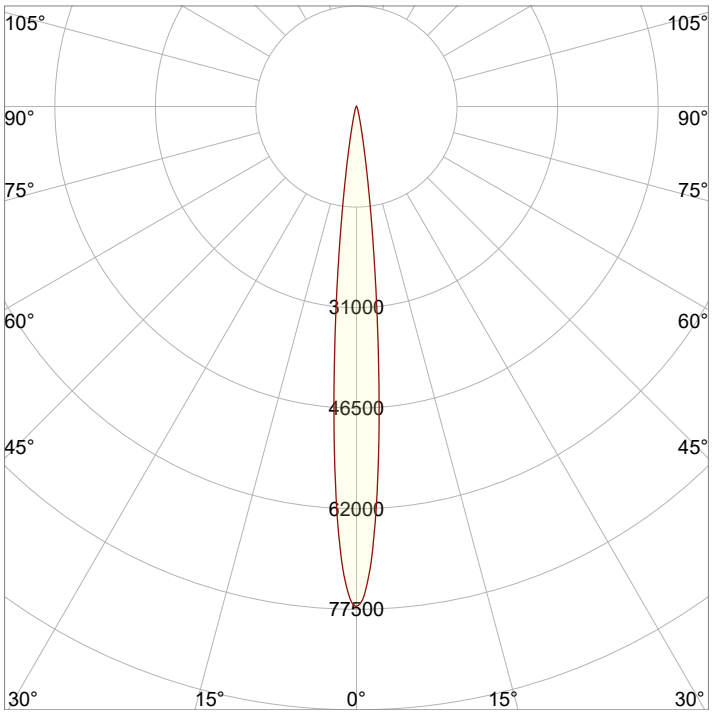
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.8 ft	8.7 ft	11.6 ft

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	76904	19226	8545	4807	3076	2136	1569	1202	949	769	636	534	455	392	342	300	266	237	213	192
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	7144.7	1786.2	793.9	446.5	285.8	198.5	145.8	111.6	88.2	71.4	59	49.6	42.3	36.5	31.8	27.9	24.7	22.1	19.8	17.9

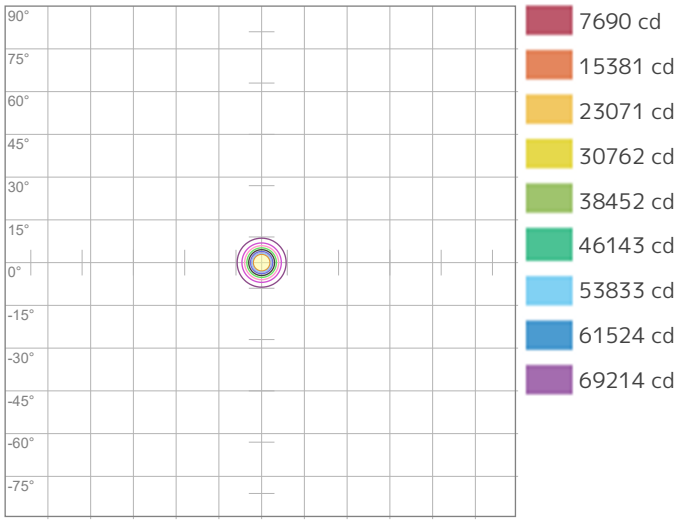
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
10.1°
Field Angle - 10%
19.5°
Cutoff Angle - 2.5%
28.4°

ISO Diagrams

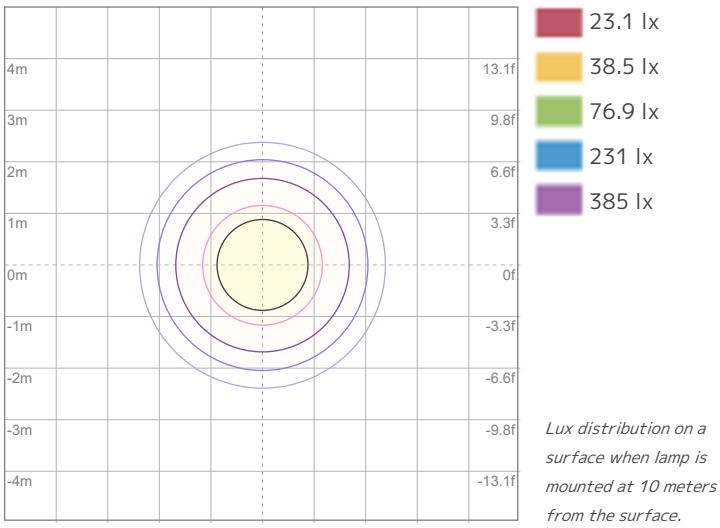


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 76904 cd



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

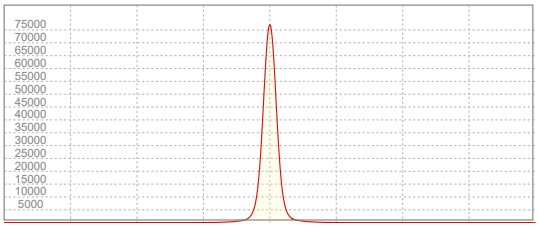
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 769 lx

Linear Distribution



Peak Candela

76991 cd

Calculate Center Beam Intensities

lux = 76991 / distance(m)^2

fc = 76991 / distance(ft)^2

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Narrow, 6500K)

Key Measurements

Output

Total Lumen Output: 3377 lm

Peak Intensity: 74254 cd

Beam

Beam Angle (50%): 10.1°

Field Angle (10%): 19.5°

Cutoff Angle (2.5%): 28.5°

Color

Color Temperature: 6460 K

CRI: 91.1

TLCI: 91

TM30 R_F: 88.9

TM30 R_g: 102.7

Power Details

Efficacy: 17 Lumen/Watt

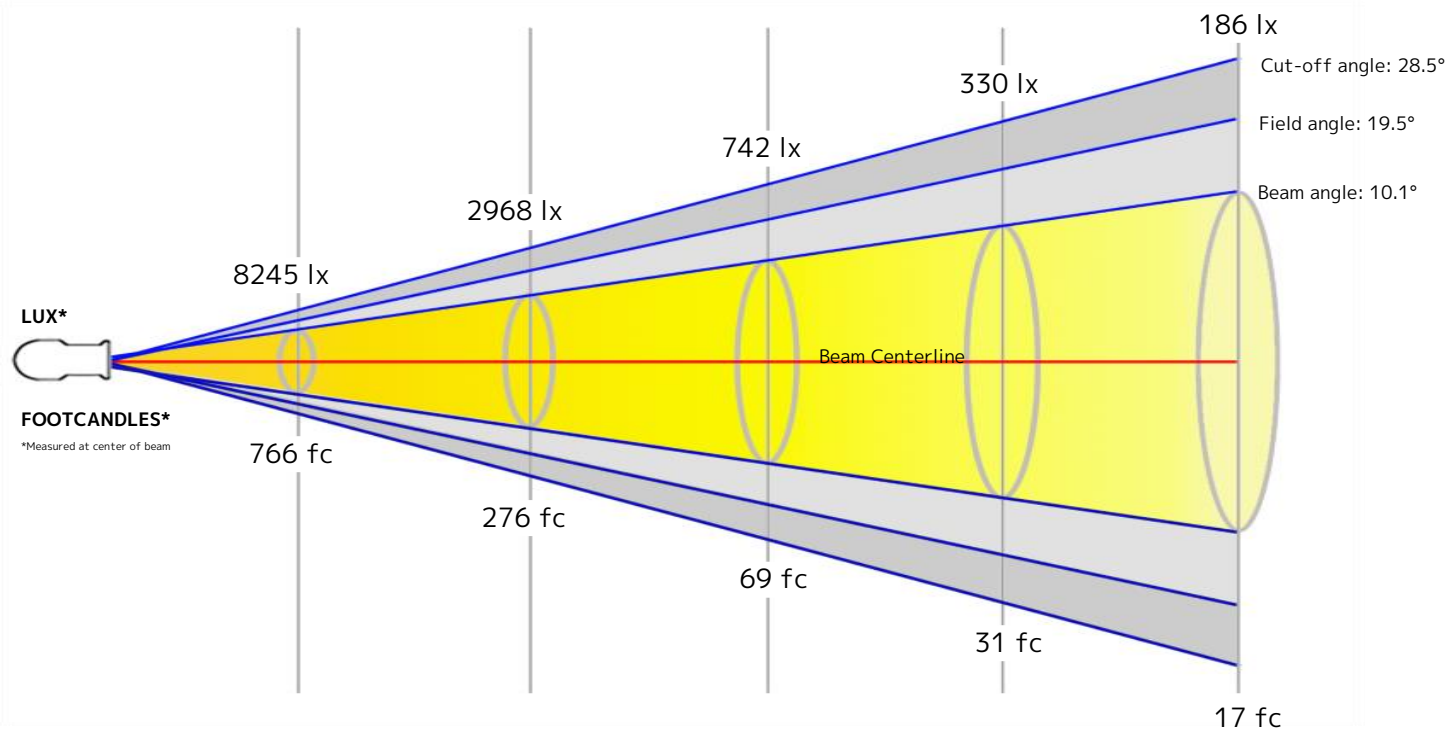
Power: 198.3 W

Supply Voltage: 118 V

Current: 1.74 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.6 m	3.5 m



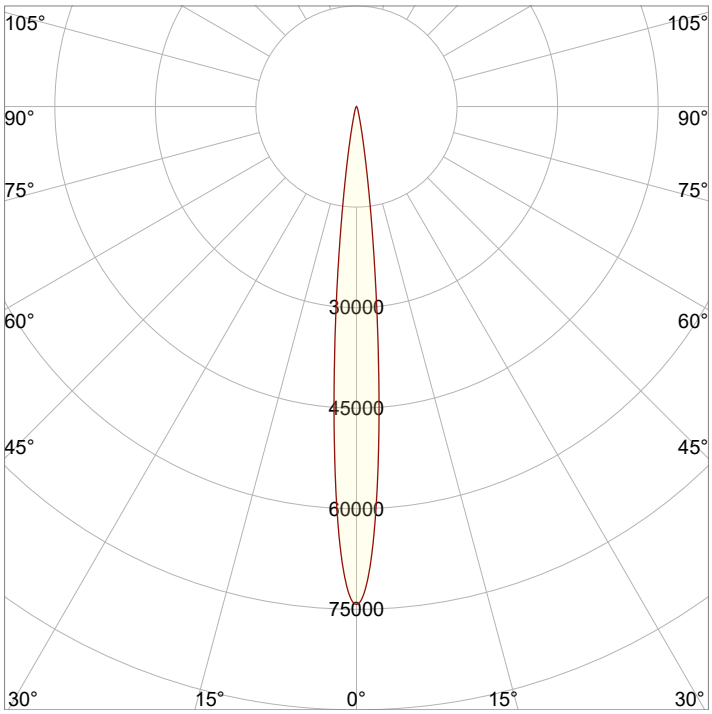
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.8 ft	8.7 ft	11.6 ft

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	74209	18552	8245	4638	2968	2061	1514	1160	916	742	613	515	439	379	330	290	257	229	206	186
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	6894.2	1723.6	766	430.9	275.8	191.5	140.7	107.7	85.1	68.9	57	47.9	40.8	35.2	30.6	26.9	23.9	21.3	19.1	17.2

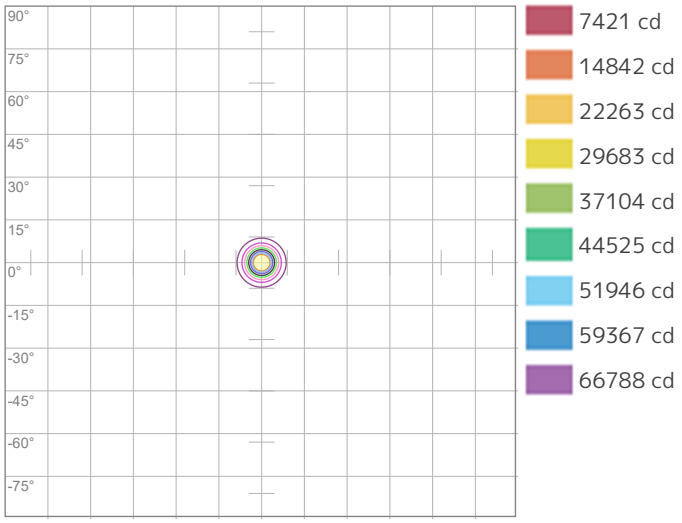
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
10.1°
Field Angle - 10%
19.5°
Cutoff Angle - 2.5%
28.5°

ISO Diagrams

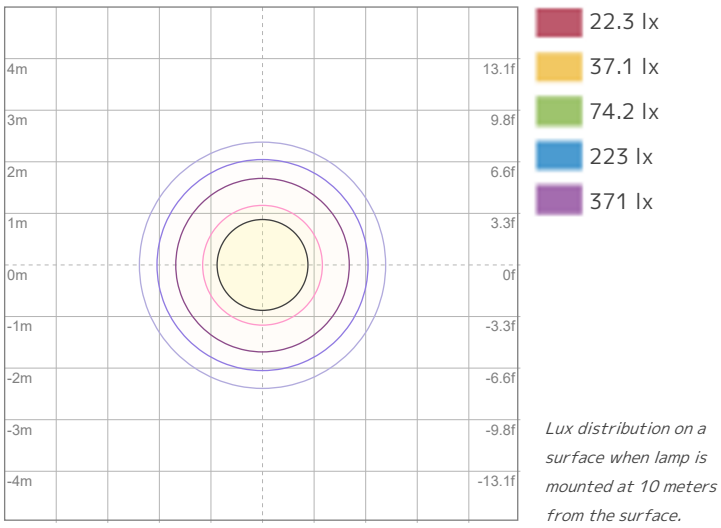


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 74209 cd



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

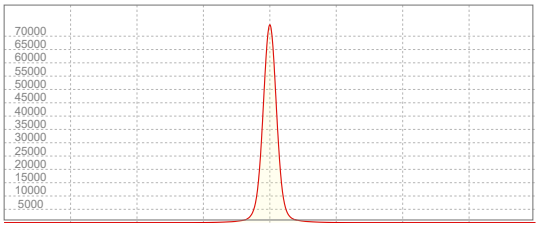
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 742 lx

Linear Distribution



Peak Candela

74254 cd

Calculate Center Beam Intensities

lux = 74254 / distance(m)^2

fc = 74254 / distance(ft)^2

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Narrow, 8000K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3396 lm

Peak Intensity: 73060 cd

Beam

Beam Angle (50%): 10.1°

Field Angle (10%): 19.7°

Cutoff Angle (2.5%): 28.7°

Color

Color Temperature: 7981 K

CRI: 90.4

TLCI: 91

TM30 R_F: 87.9

TM30 R_g: 101.3

Power Details

Efficacy: 17 Lumen/Watt

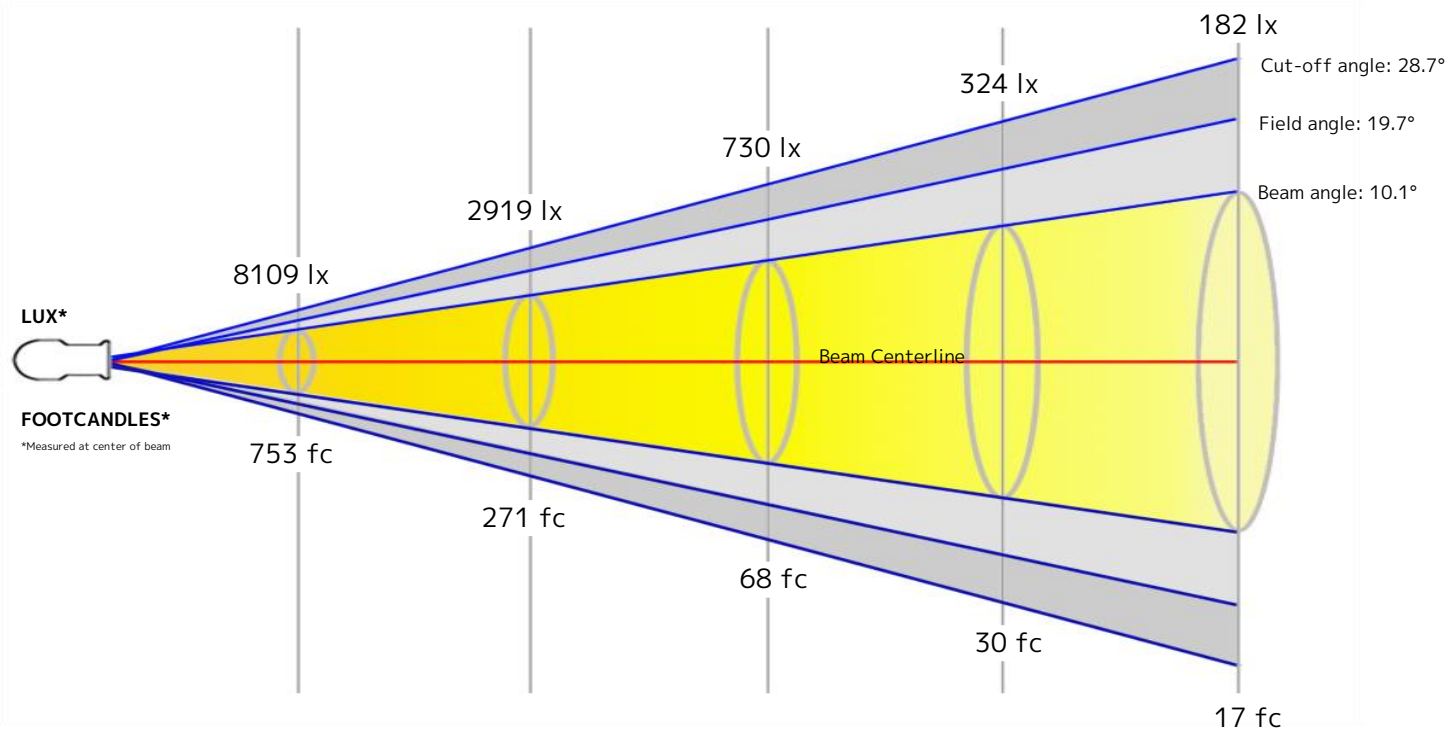
Power: 197.2 W

Supply Voltage: 118 V

Current: 1.74 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	0.5 m	0.9 m	1.8 m	2.7 m	3.5 m



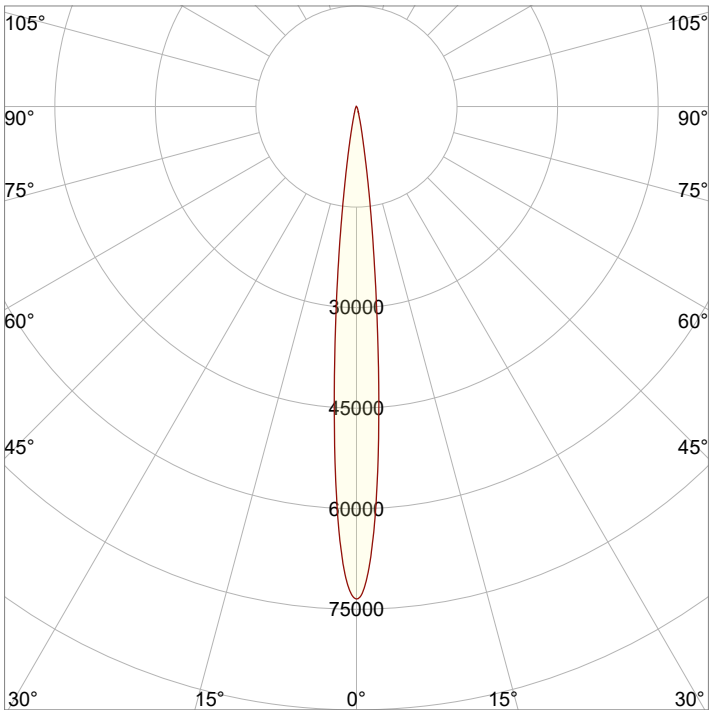
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	1.7 ft	2.9 ft	5.8 ft	8.7 ft	11.6 ft

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	72984	18246	8109	4561	2919	2027	1489	1140	901	730	603	507	432	372	324	285	253	225	202	182
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	6780.4	1695.1	753.4	423.8	271.2	188.3	138.4	105.9	83.7	67.8	56	47.1	40.1	34.6	30.1	26.5	23.5	20.9	18.8	17

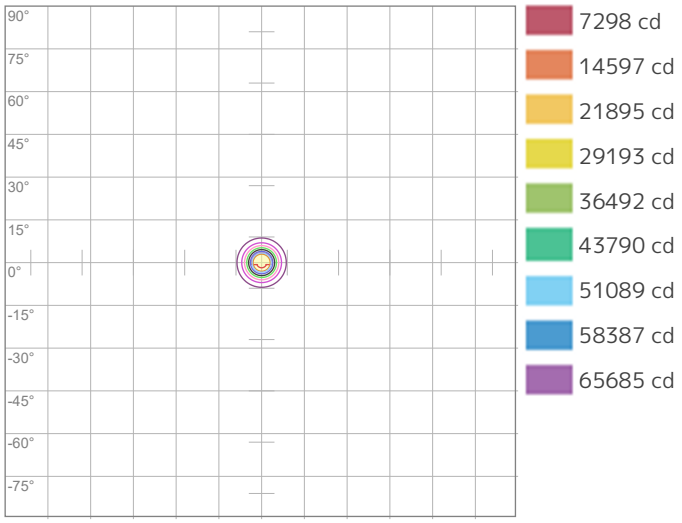
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
10.1°
Field Angle - 10%
19.7°
Cutoff Angle - 2.5%
28.7°

ISO Diagrams

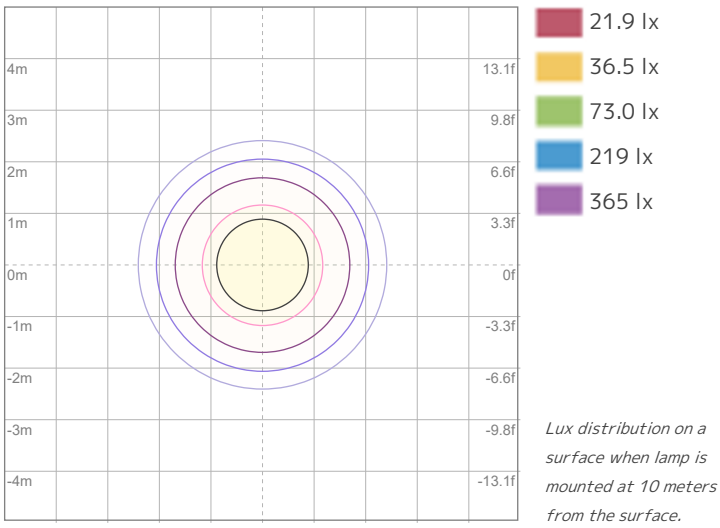


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 72984 cd



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

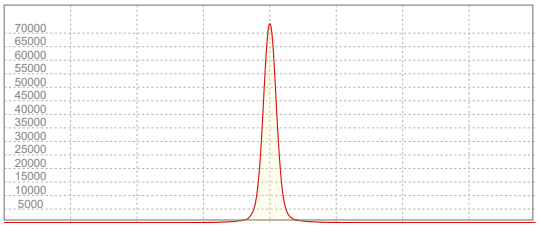
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 730 lx

Linear Distribution



Peak Candela

73060 cd

Calculate Center Beam Intensities

lux = 73060 / distance(m)^2

fc = 73060 / distance(ft)^2

Measurement Date: 11/15/2023

Key Measurements

Output

Total Lumen Output: 4678 lm

Peak Intensity: 36658 cd

Beam

Beam Angle (50%): 18.9°

Field Angle (10%): 33°

Cutoff Angle (2.5%): 44.2°

Color

Color Temperature: 6774 K

CRI: 85.6

TLCI: 91

TM30 R_F: 86.0

TM30 R_g: 110.0

Power Details

Efficacy: 23 Lumen/Watt

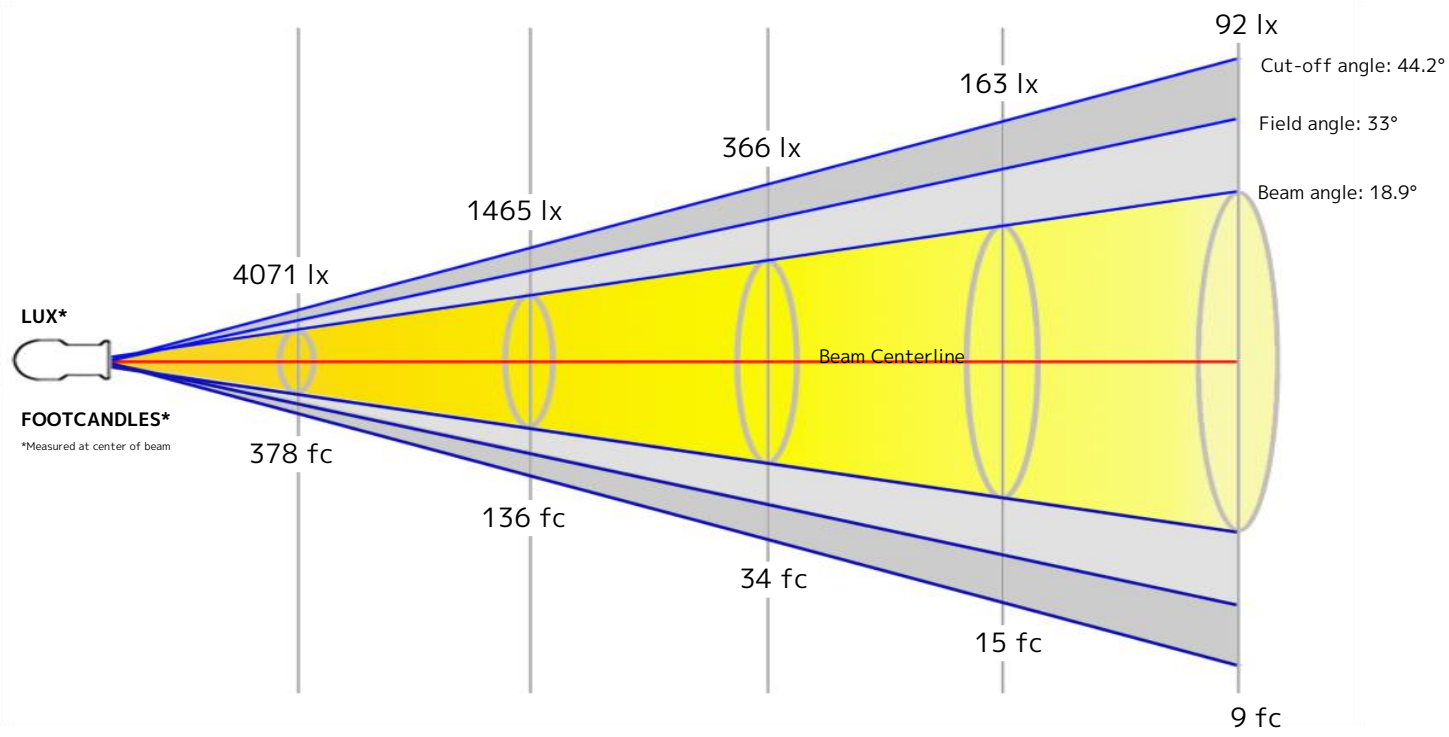
Power: 206.2 W

Supply Voltage: 117 V

Current: 1.81 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.7 m



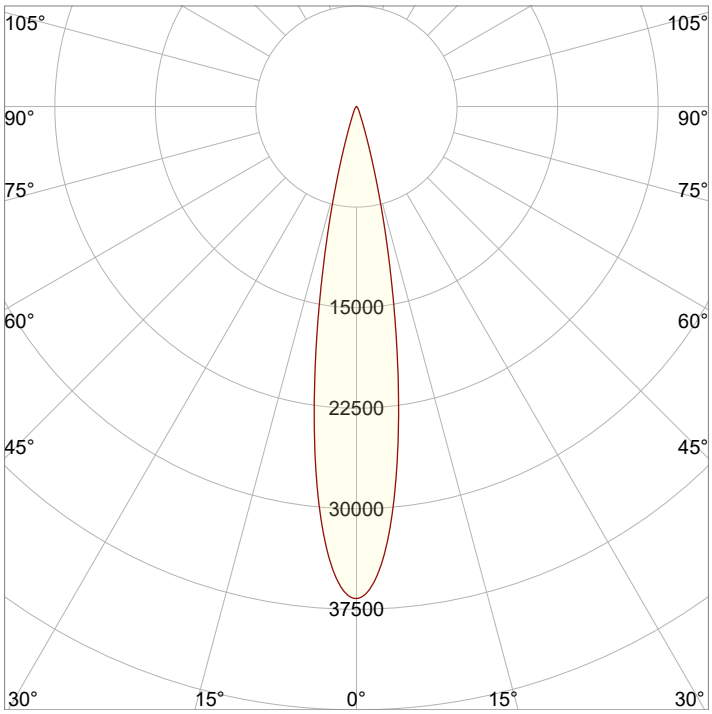
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.3 ft	5.5 ft	10.9 ft	16.4 ft	21.9 ft

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	36636	9159	4071	2290	1465	1018	748	572	452	366	303	254	217	187	163	143	127	113	101	92
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	3403.6	850.9	378.2	212.7	136.1	94.5	69.5	53.2	42	34	28.1	23.6	20.1	17.4	15.1	13.3	11.8	10.5	9.4	8.5

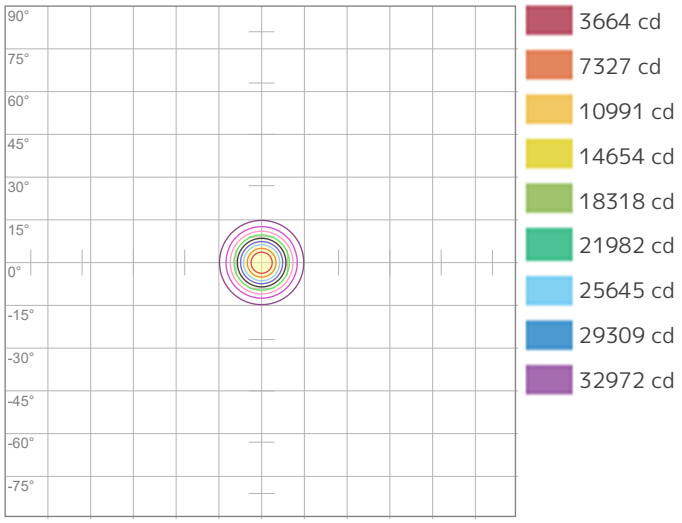
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
18.9°
Field Angle - 10%
33°
Cutoff Angle - 2.5%
44.2°

ISO Diagrams

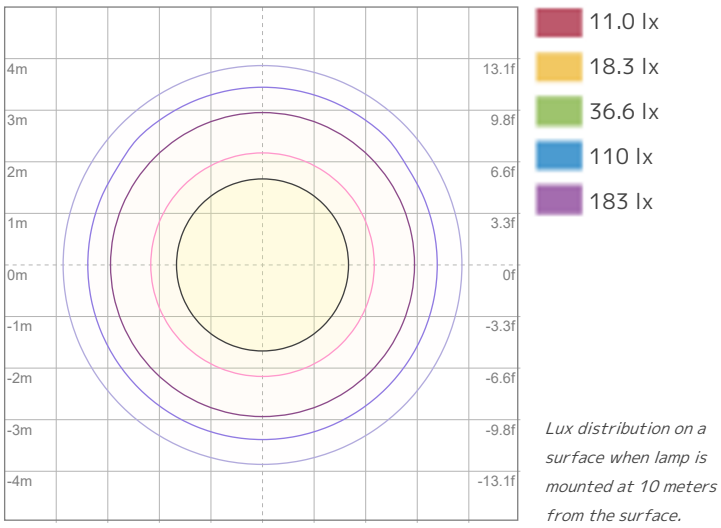


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 36636 cd



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

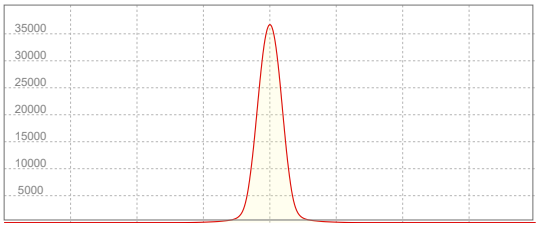
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 366 lx

Linear Distribution



Peak Candela
36658 cd

Calculate Center Beam Intensities

lux = 36658 / distance(m)^2

fc = 36658 / distance(ft)^2

Measurement Date: 11/16/2023

KL Fresnel 6 FC (50% Zoom, 2700K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 4667 lm

Peak Intensity: 36960 cd

Beam

Beam Angle (50%): 18.9°

Field Angle (10%): 33°

Cutoff Angle (2.5%): 43.9°

Color

Color Temperature: 2676 K

CRI: 91.6

TLCI: 90

TM30 R_F: 93.5

TM30 R_g: 104.3

Power Details

Efficacy: 23 Lumen/Watt

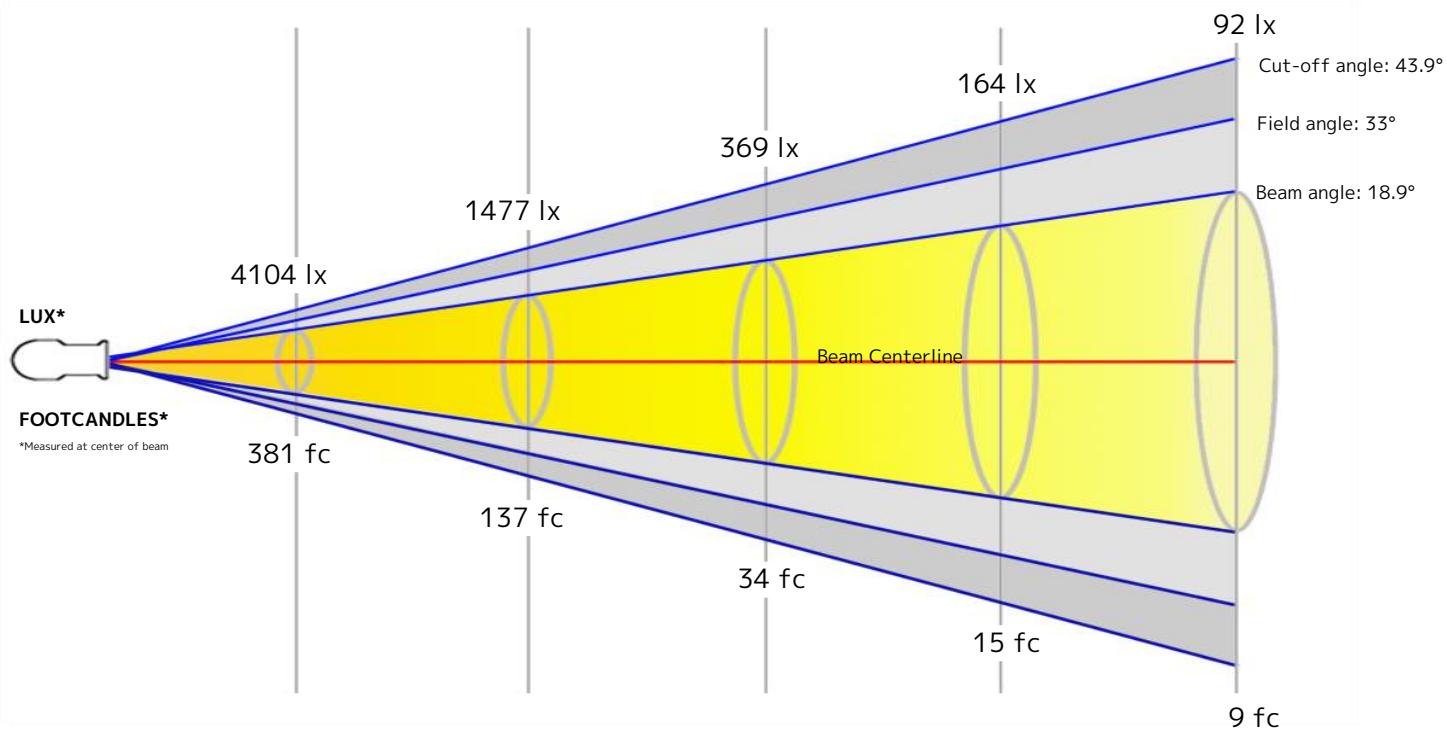
Power: 201.2 W

Supply Voltage: 117 V

Current: 1.78 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.7 m



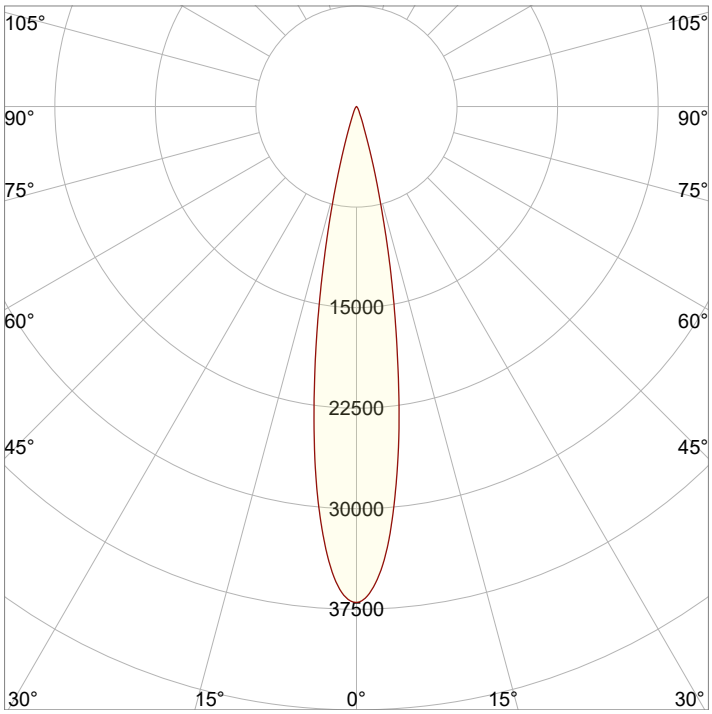
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.3 ft	5.5 ft	10.9 ft	16.4 ft	21.8 ft

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	36933	9233	4104	2308	1477	1026	754	577	456	369	305	256	219	188	164	144	128	114	102	92
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	3431.2	857.8	381.2	214.5	137.2	95.3	70	53.6	42.4	34.3	28.4	23.8	20.3	17.5	15.2	13.4	11.9	10.6	9.5	8.6

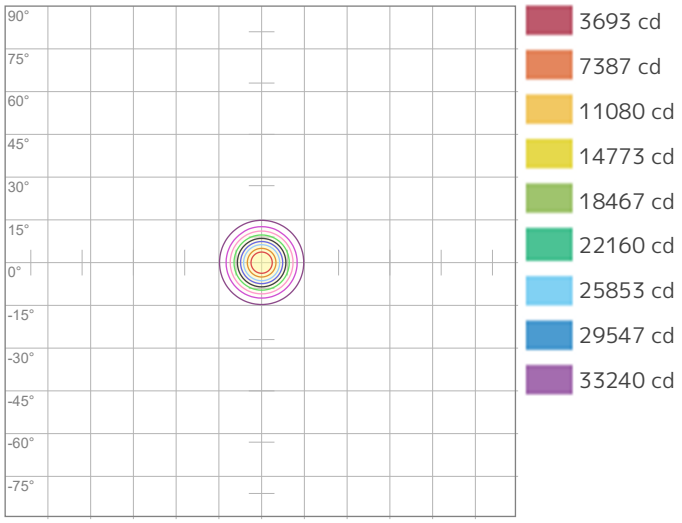
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
18.9°
Field Angle - 10%
33°
Cutoff Angle - 2.5%
43.9°

ISO Diagrams

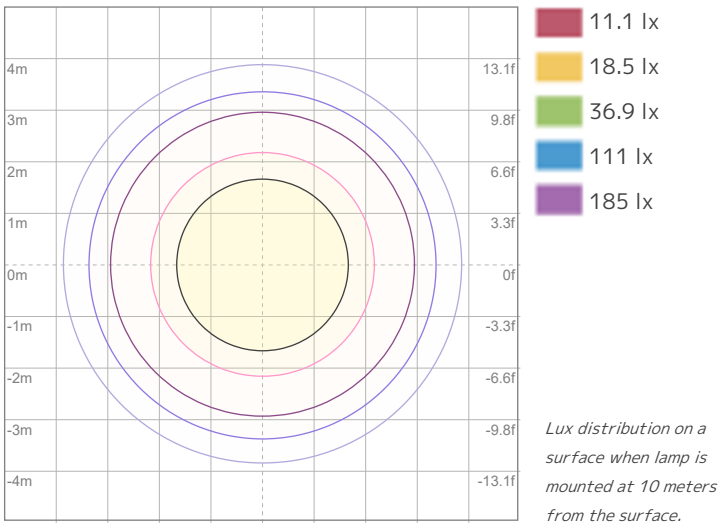


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 36933 cd



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

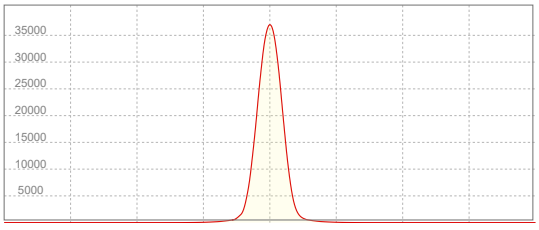
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 369 lx

Linear Distribution



Peak Candela

36960 cd

Calculate Center Beam Intensities

lux = 36960 / distance(m)^2

fc = 36960 / distance(ft)^2

Measurement Date: 11/16/2023

KL Fresnel 6 FC (50% Zoom, 3200K)

Key Measurements

Output

Total Lumen Output: 5361 lm

Peak Intensity: 42617 cd

Beam

Beam Angle (50%): 18.8°

Field Angle (10%): 32.9°

Cutoff Angle (2.5%): 43.9°

Color

Color Temperature: 3210 K

CRI: 92.7

TLCI: 92

TM30 R_F: 93.3

TM30 R_g: 104.4

Power Details

Efficacy: 25 Lumen/Watt

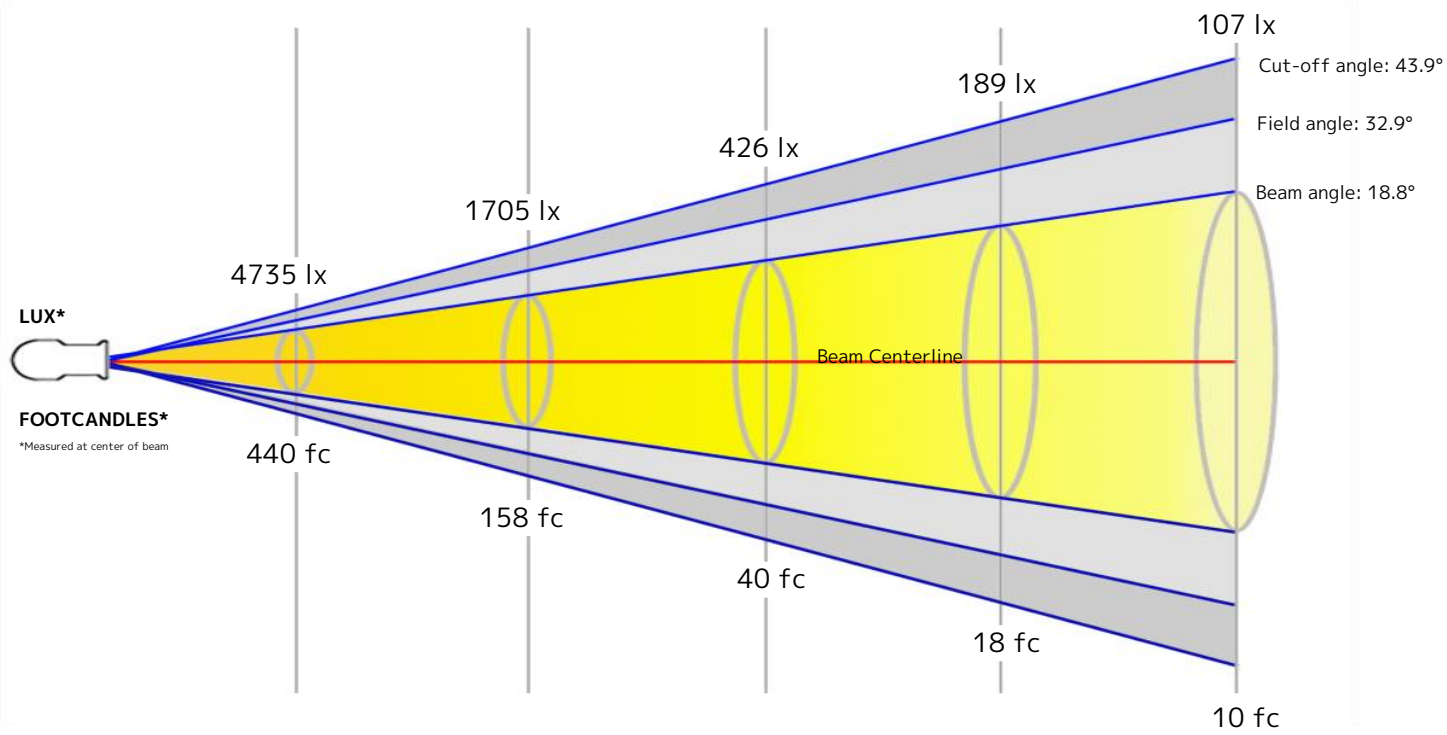
Power: 216.4 W

Supply Voltage: 117 V

Current: 1.90 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.6 m



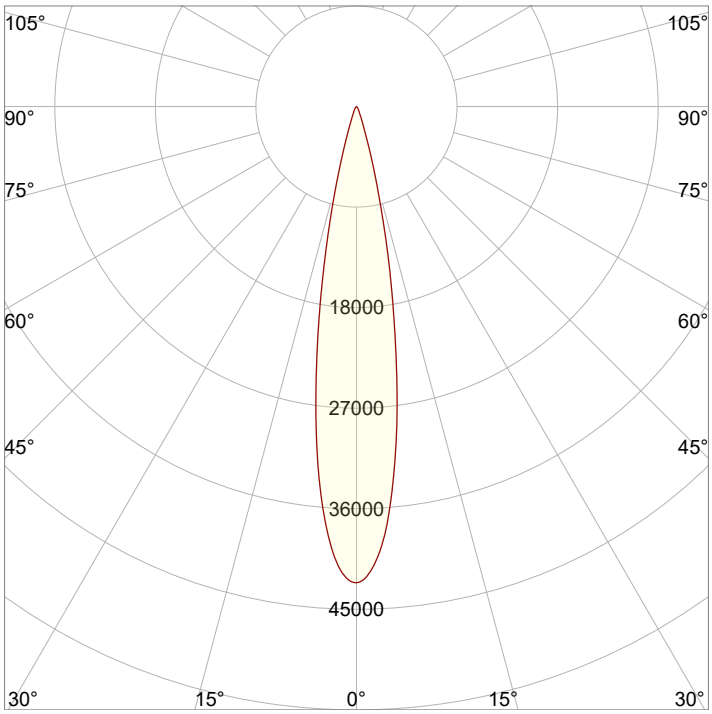
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.2 ft	5.4 ft	10.9 ft	16.3 ft	21.7 ft

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	42615	10654	4735	2663	1705	1184	870	666	526	426	352	296	252	217	189	166	147	132	118	107
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	3959.1	989.8	439.9	247.4	158.4	110	80.8	61.9	48.9	39.6	32.7	27.5	23.4	20.2	17.6	15.5	13.7	12.2	11	9.9

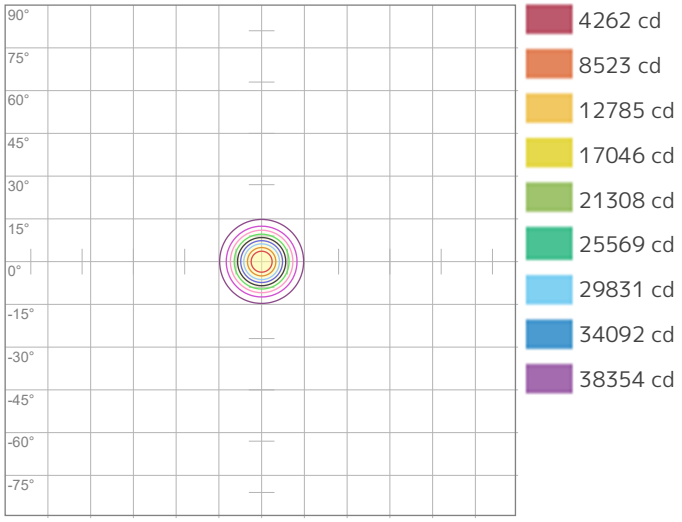
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
18.8°
Field Angle - 10%
32.9°
Cutoff Angle - 2.5%
43.9°

ISO Diagrams

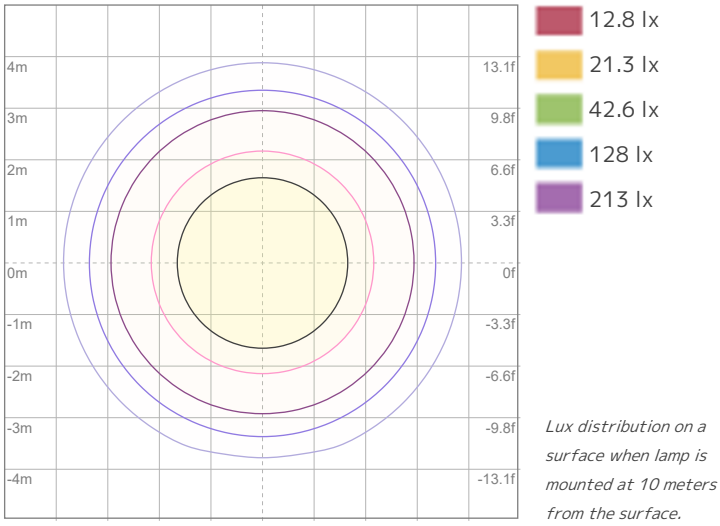


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 42615 cd



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

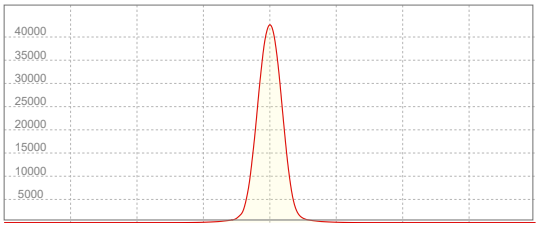
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 426 lx

Linear Distribution



Peak Candela

42617 cd

Calculate Center Beam Intensities

lux = 42617 / distance(m)^2

fc = 42617 / distance(ft)^2

Measurement Date: 11/16/2023

KL Fresnel 6 FC (50% Zoom, 4000K)

Key Measurements

Output

Total Lumen Output: 5403 lm

Peak Intensity: 41561 cd

Beam

Beam Angle (50%): 18.9°

Field Angle (10%): 33°

Cutoff Angle (2.5%): 44.6°

Color

Color Temperature: 4051 K

CRI: 92.5

TLCI: 91

TM30 R_F: 91.8

TM30 R_g: 103.2

Power Details

Efficacy: 26 Lumen/Watt

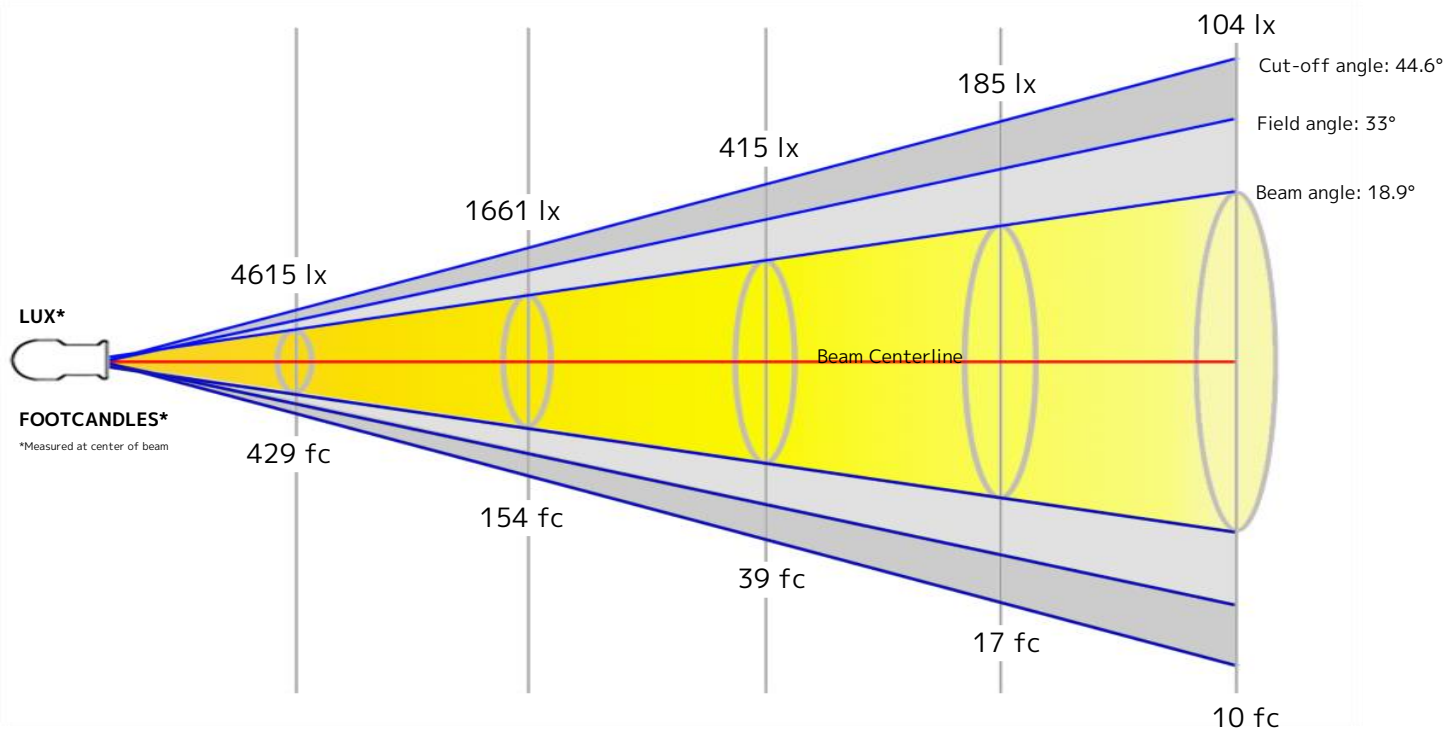
Power: 206.8 W

Supply Voltage: 118 V

Current: 1.81 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.6 m



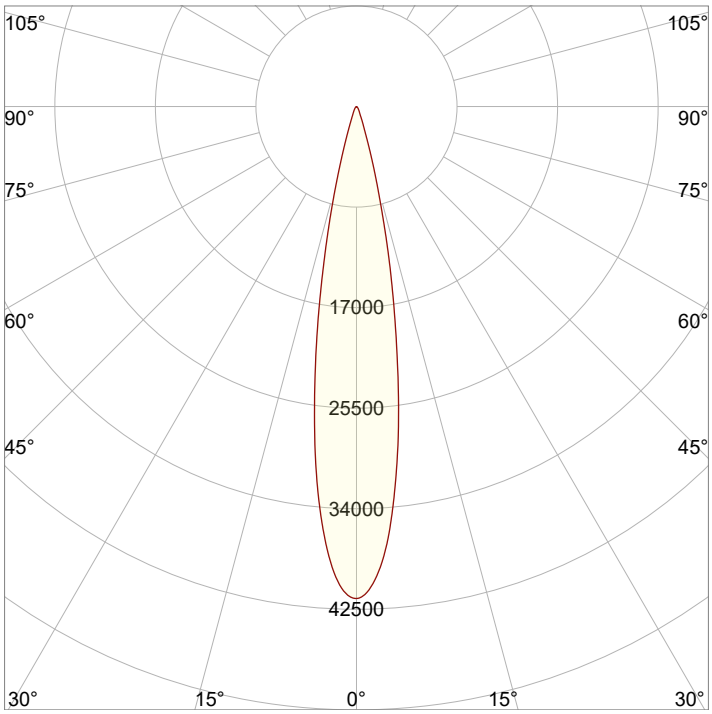
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.3 ft	5.4 ft	10.9 ft	16.3 ft	21.8 ft

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	41531	10383	4615	2596	1661	1154	848	649	513	415	343	288	246	212	185	162	144	128	115	104
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	3858.4	964.6	428.7	241.1	154.3	107.2	78.7	60.3	47.6	38.6	31.9	26.8	22.8	19.7	17.1	15.1	13.4	11.9	10.7	9.6

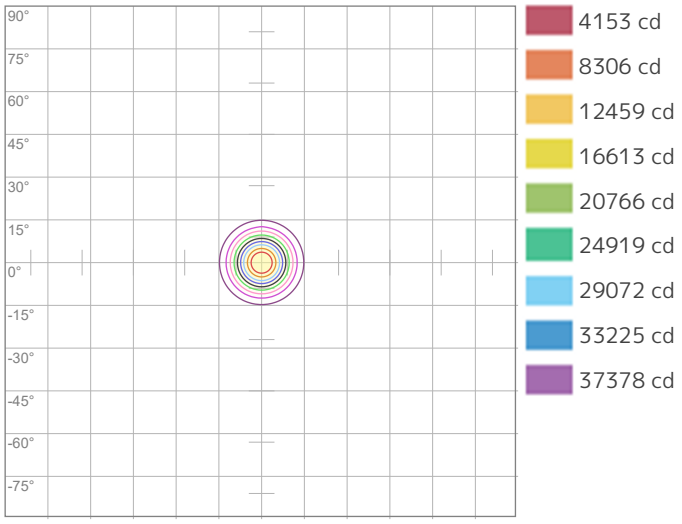
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
18.9°
Field Angle - 10%
33°
Cutoff Angle - 2.5%
44.6°

ISO Diagrams

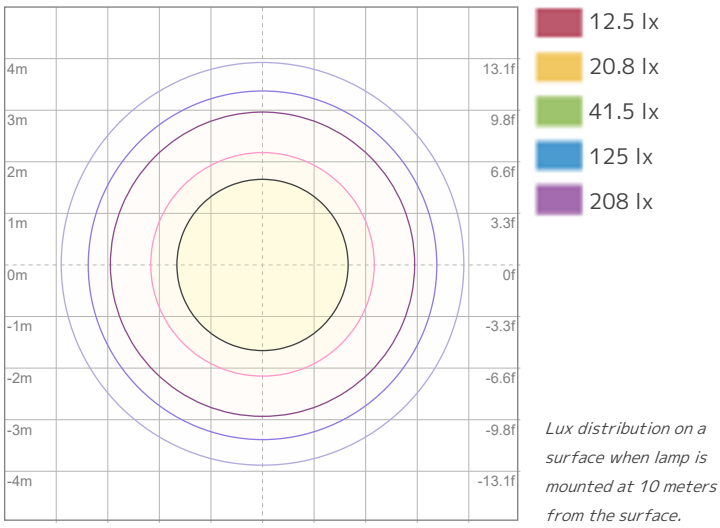


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 41531 cd



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

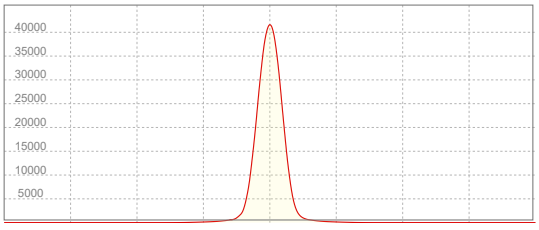
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 415 lx

Linear Distribution



Peak Candela

41561 cd

Calculate Center Beam Intensities

lux = 41561 / distance(m)^2

fc = 41561 / distance(ft)^2

Measurement Date: 11/16/2023

KL Fresnel 6 FC (50% Zoom, 4500K)

Key Measurements

Output

Total Lumen Output: 5333 lm

Peak Intensity: 40925 cd

Beam

Beam Angle (50%): 18.9°

Field Angle (10%): 33°

Cutoff Angle (2.5%): 44.7°

Color

Color Temperature: 4555 K

CRI: 92.3

TLCI: 91

TM30 R_F: 90.8

TM30 R_g: 103.5

Power Details

Efficacy: 26 Lumen/Watt

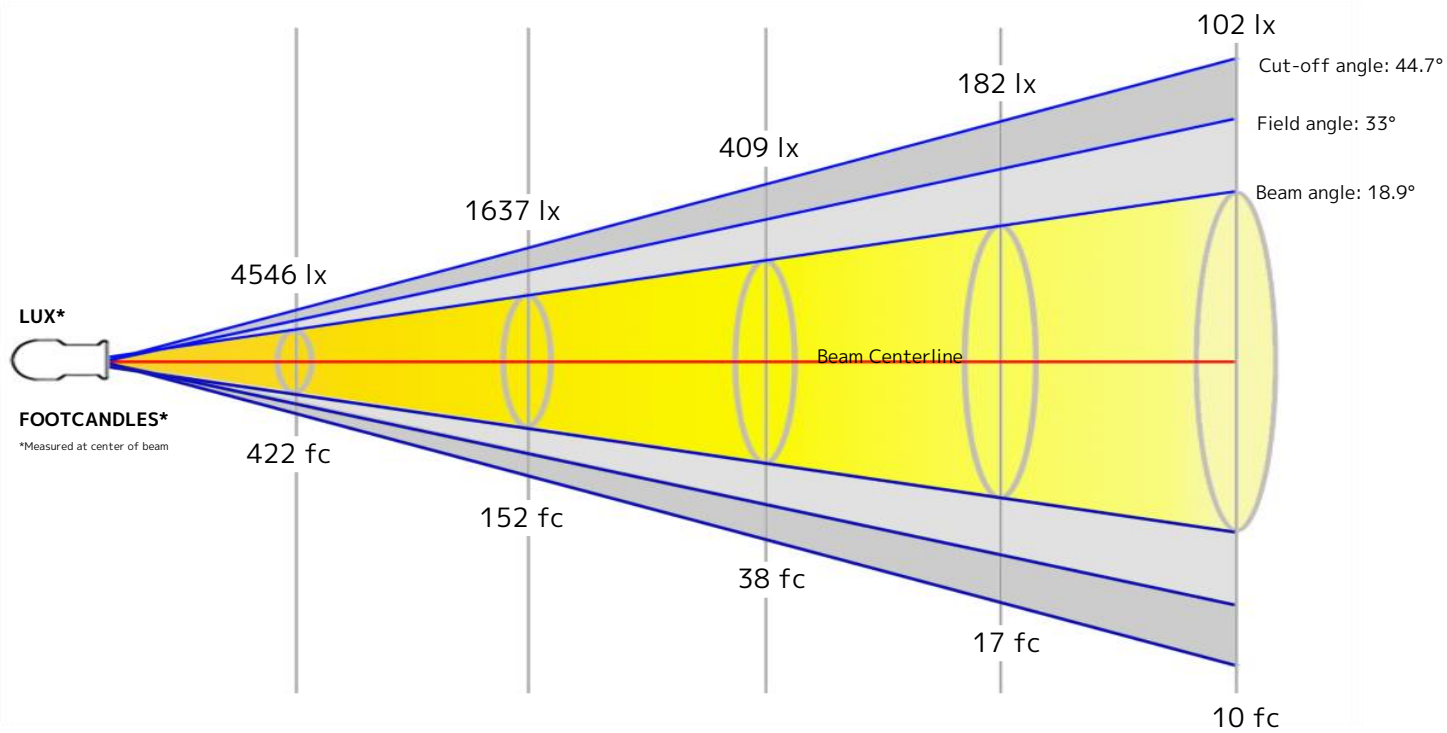
Power: 207.6 W

Supply Voltage: 118 V

Current: 1.82 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.7 m



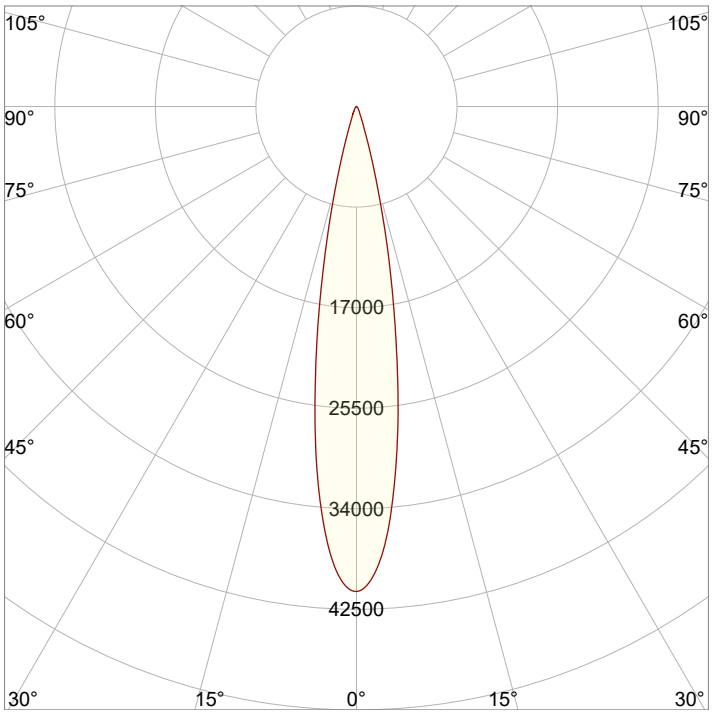
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.3 ft	5.5 ft	10.9 ft	16.4 ft	21.8 ft

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	40914	10229	4546	2557	1637	1137	835	639	505	409	338	284	242	209	182	160	142	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	3801	950.3	422.3	237.6	152	105.6	77.6	59.4	46.9	38	31.4	26.4	22.5	19.4	16.9	14.8	13.2	11.7	10.5	9.5

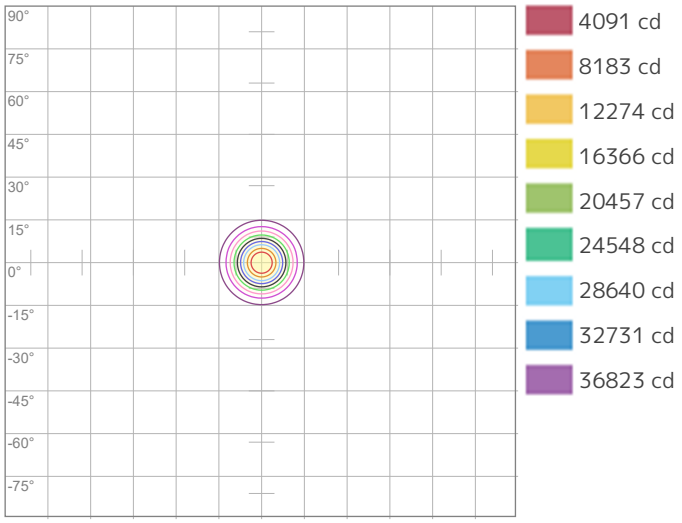
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
18.9°
Field Angle - 10%
33°
Cutoff Angle - 2.5%
44.7°

ISO Diagrams

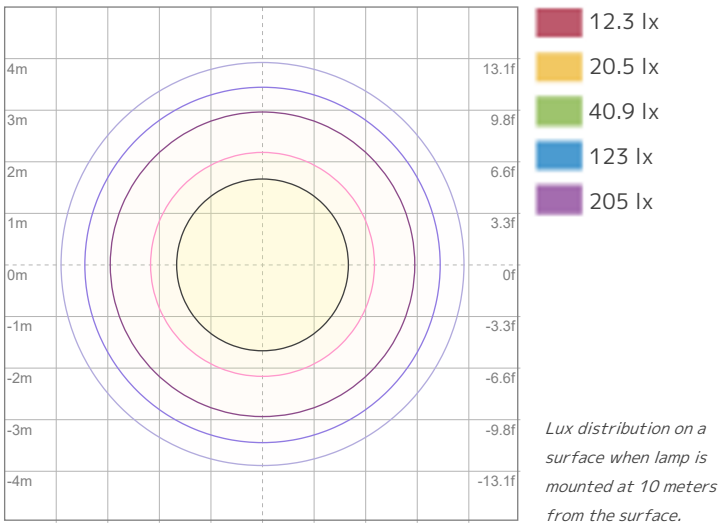


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 40914 cd



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

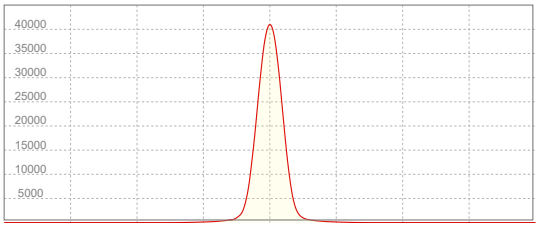
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 409 lx

Linear Distribution



Peak Candela

40925 cd

Calculate Center Beam Intensities

lux = 40925 / distance(m)^2

fc = 40925 / distance(ft)^2

Measurement Date: 11/16/2023

KL Fresnel 6 FC (50% Zoom, 5600K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 5186 lm

Peak Intensity: 39414 cd

Beam

Beam Angle (50%): 18.9°

Field Angle (10%): 33.1°

Cutoff Angle (2.5%): 44.9°

Color

Color Temperature: 5588 K

CRI: 91.8

TLCI: 92

TM30 R_F: 90.3

TM30 R_g: 104.0

Power Details

Efficacy: 25 Lumen/Watt

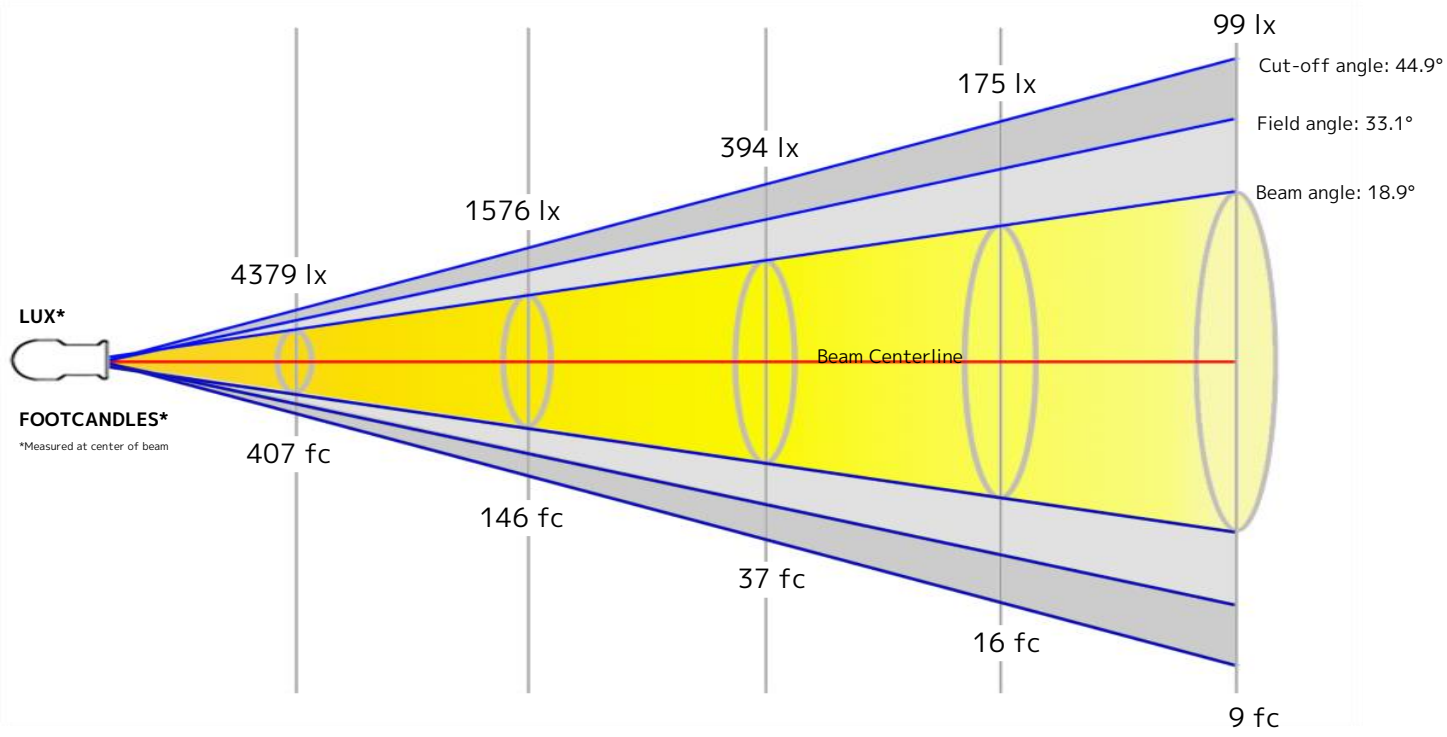
Power: 204.8 W

Supply Voltage: 118 V

Current: 1.80 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.7 m



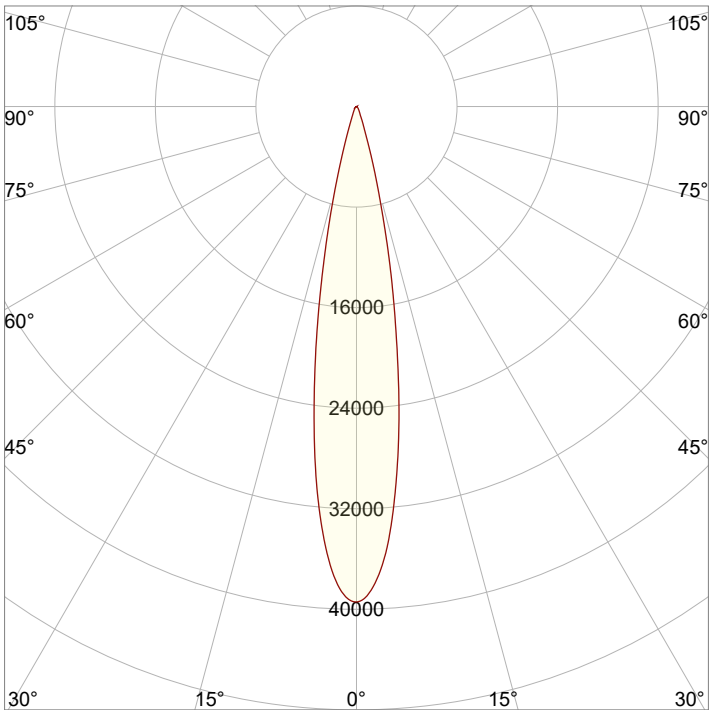
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.3 ft	5.5 ft	10.9 ft	16.4 ft	21.8 ft

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	39409	9852	4379	2463	1576	1095	804	616	487	394	326	274	233	201	175	154	136	122	109	99
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	3661.2	915.3	406.8	228.8	146.4	101.7	74.7	57.2	45.2	36.6	30.3	25.4	21.7	18.7	16.3	14.3	12.7	11.3	10.1	9.2

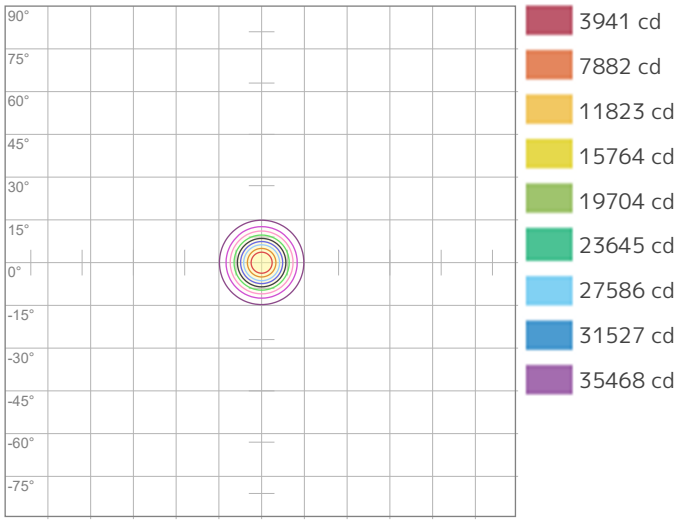
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
18.9°
Field Angle - 10%
33.1°
Cutoff Angle - 2.5%
44.9°

ISO Diagrams

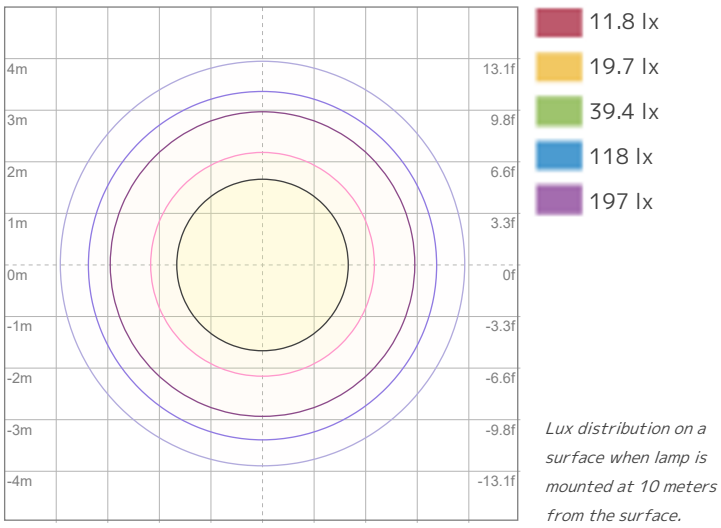


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 39409 cd



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

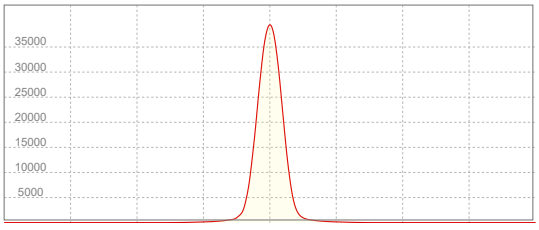
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 394 lx

Linear Distribution



Peak Candela

39414 cd

Calculate Center Beam Intensities

lux = 39414 / distance(m)^2

fc = 39414 / distance(ft)^2

Measurement Date: 11/16/2023

Key Measurements

Output

Total Lumen Output: 5016 lm

Peak Intensity: 38850 cd

Beam

Beam Angle (50%): 19°

Field Angle (10%): 33°

Cutoff Angle (2.5%): 44.5°

Color

Color Temperature: 6073 K

CRI: 91.5

TLCI: 92

TM30 R_F: 89.7

TM30 R_g: 103.5

Power Details

Efficacy: 24 Lumen/Watt

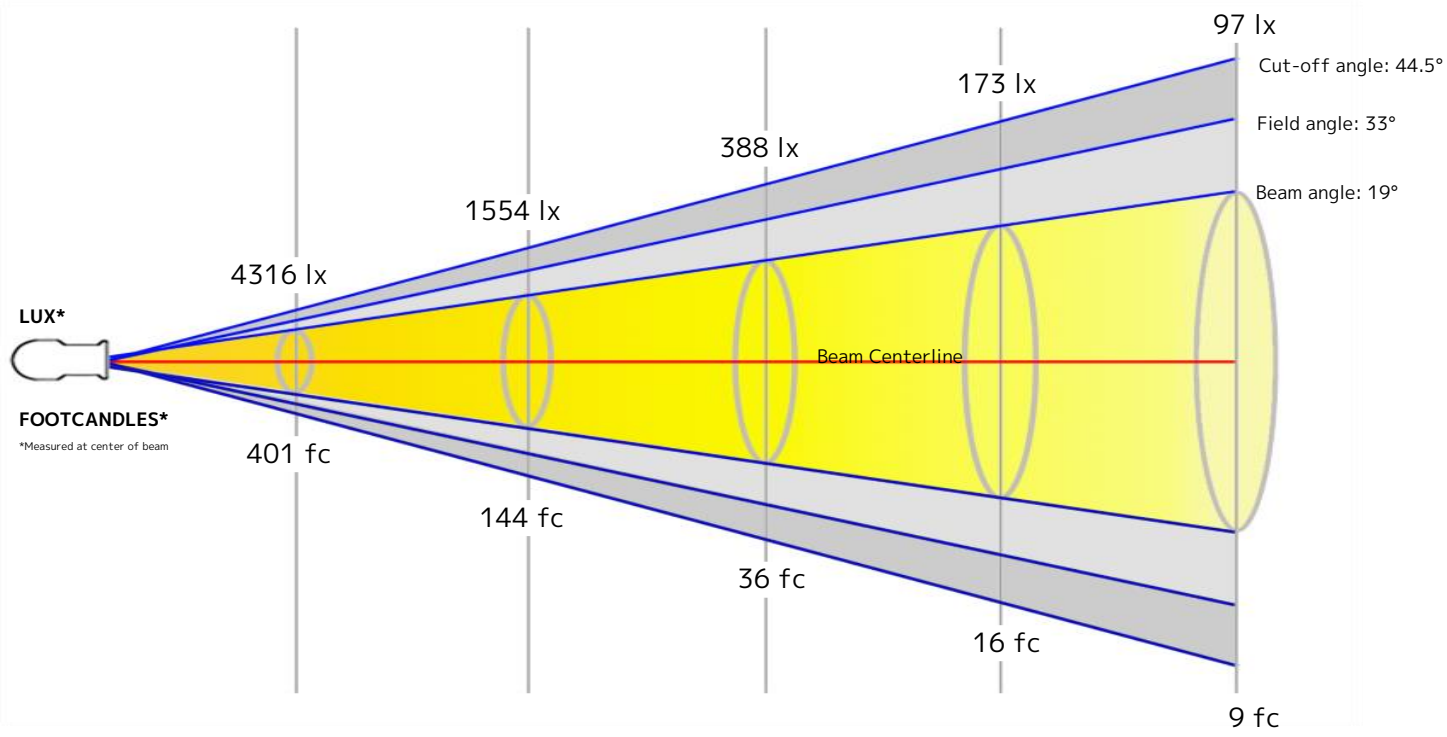
Power: 205.7 W

Supply Voltage: 117 V

Current: 1.82 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.7 m



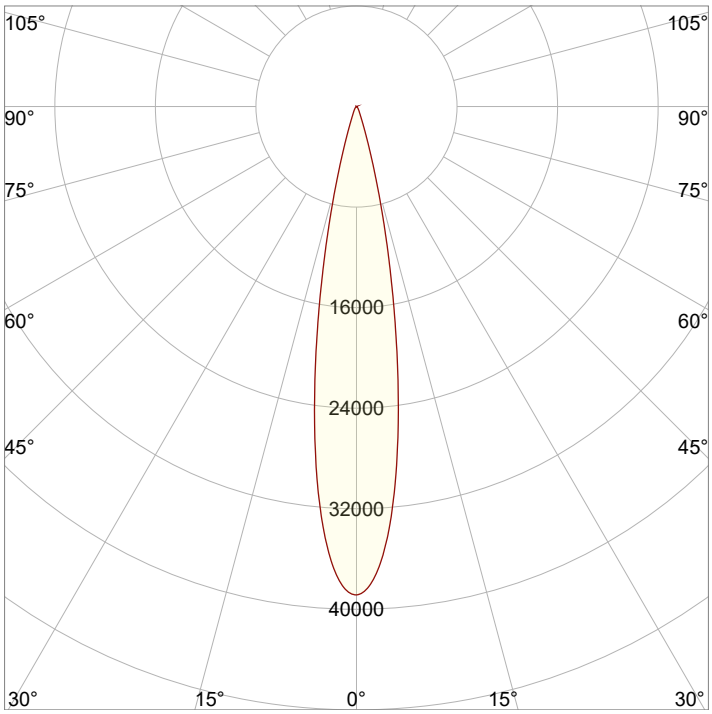
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.3 ft	5.5 ft	11 ft	16.4 ft	21.9 ft

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	38847	9712	4316	2428	1554	1079	793	607	480	388	321	270	230	198	173	152	134	120	108	97
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	3609	902.3	401	225.6	144.4	100.3	73.7	56.4	44.6	36.1	29.8	25.1	21.4	18.4	16	14.1	12.5	11.1	10	9

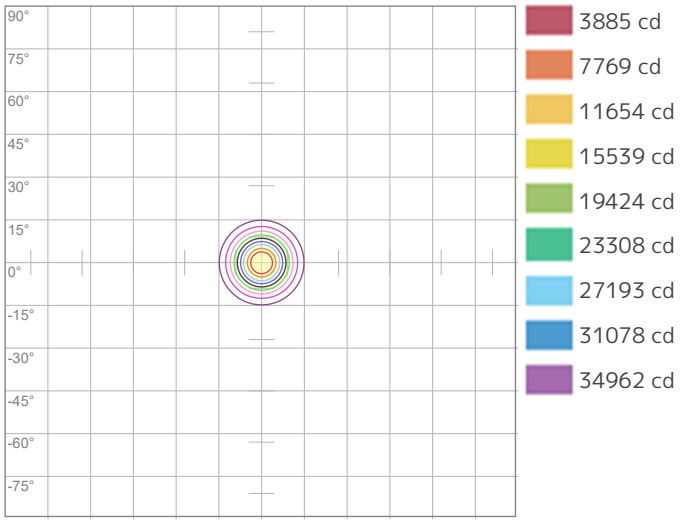
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
19°
Field Angle - 10%
33°
Cutoff Angle - 2.5%
44.5°

ISO Diagrams

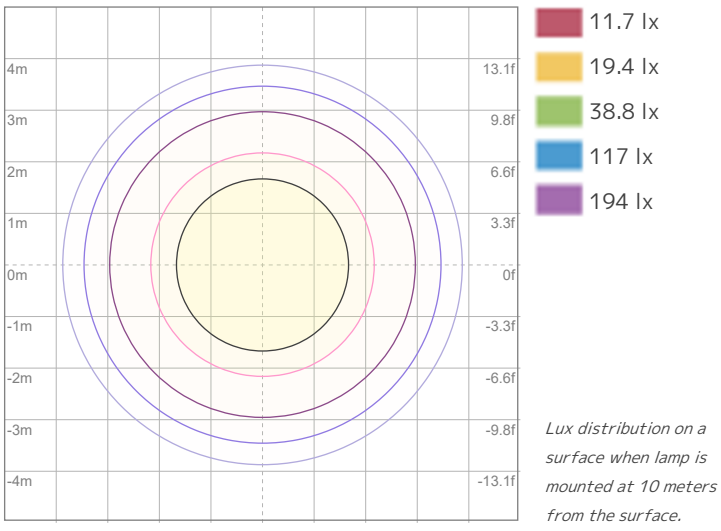


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 38847 cd



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

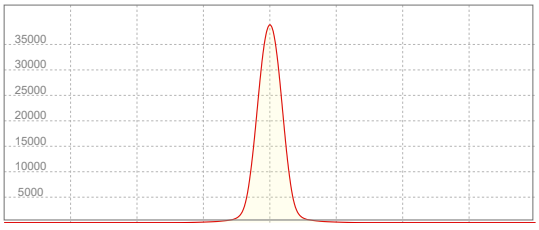
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 388 lx

Linear Distribution



Peak Candela

38850 cd

Calculate Center Beam Intensities

lux = 38850 / distance(m)^2

fc = 38850 / distance(ft)^2

Measurement Date: 11/16/2023

KL Fresnel 6 FC (50% Zoom, 6500K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 5033 lm

Peak Intensity: 38706 cd

Beam

Beam Angle (50%): 19°

Field Angle (10%): 33.1°

Cutoff Angle (2.5%): 44.6°

Color

Color Temperature: 6465 K

CRI: 91.0

TLCI: 91

TM30 R_F: 88.9

TM30 R_g: 102.6

Power Details

Efficacy: 24 Lumen/Watt

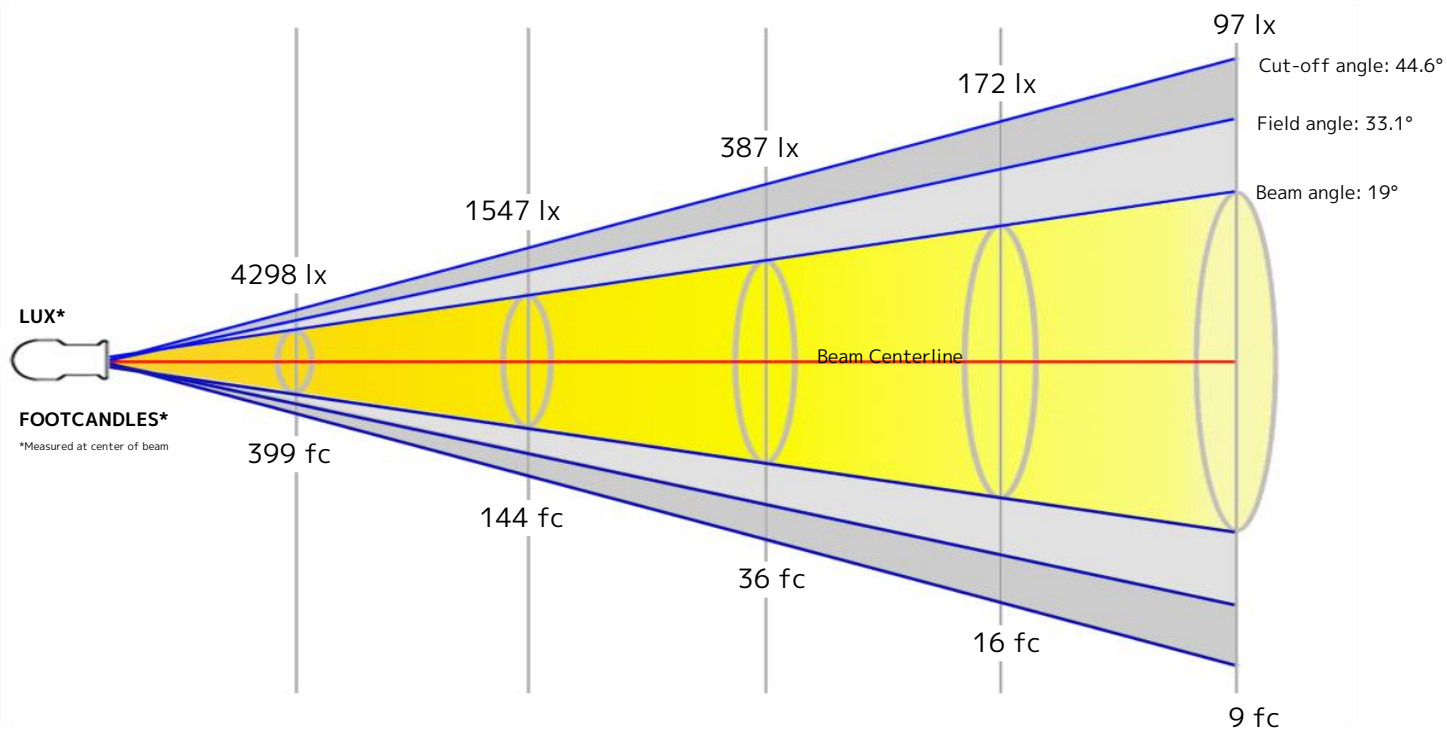
Power: 205.5 W

Supply Voltage: 117 V

Current: 1.81 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.7 m



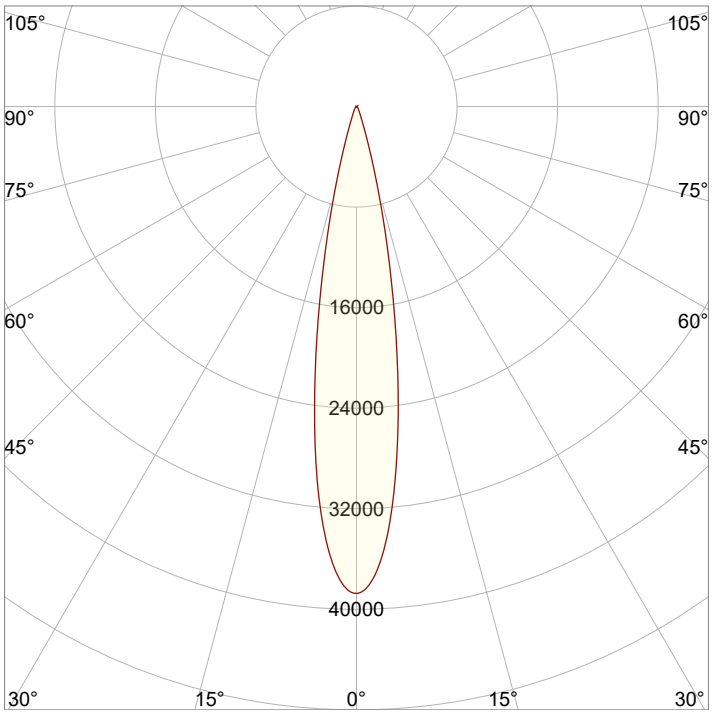
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.3 ft	5.5 ft	11 ft	16.4 ft	21.9 ft

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	38679	9670	4298	2417	1547	1074	789	604	478	387	320	269	229	197	172	151	134	119	107	97
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	3593.4	898.3	399.3	224.6	143.7	99.8	73.3	56.1	44.4	35.9	29.7	25	21.3	18.3	16	14	12.4	11.1	10	9

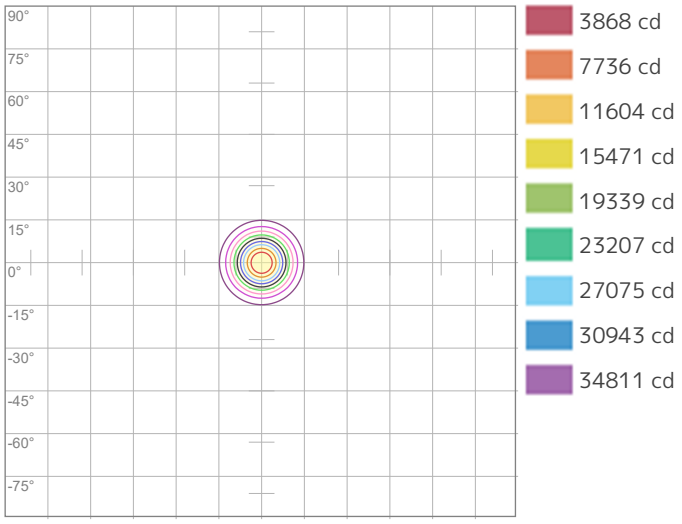
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
19°
Field Angle - 10%
33.1°
Cutoff Angle - 2.5%
44.6°

ISO Diagrams

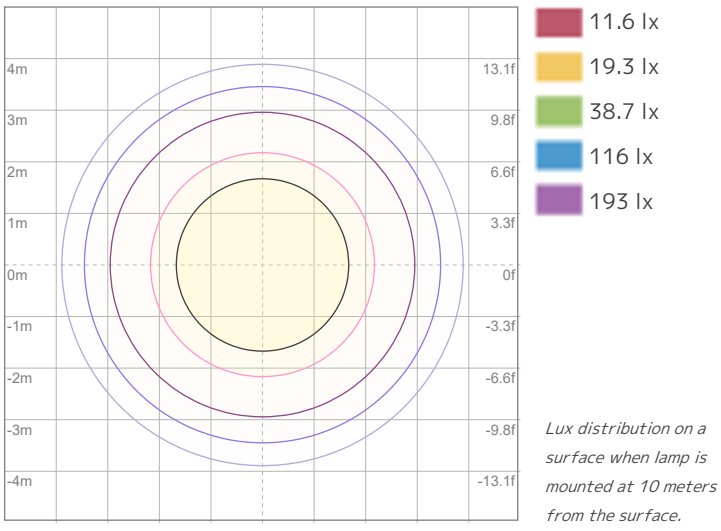


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 38679 cd



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

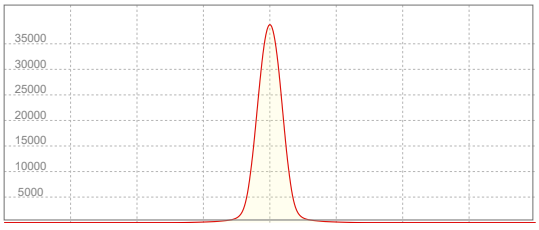
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 387 lx

Linear Distribution



Peak Candela

38706 cd

Calculate Center Beam Intensities

lux = 38706 / distance(m)^2

fc = 38706 / distance(ft)^2

Measurement Date: 11/16/2023

Key Measurements

Output

Total Lumen Output: 5051 lm

Peak Intensity: 38650 cd

Beam

Beam Angle (50%): 18.9°

Field Angle (10%): 33.1°

Cutoff Angle (2.5%): 44.8°

Color

Color Temperature: 8025 K

CRI: 90.2

TLCI: 91

TM30 R_F: 87.8

TM30 R_g: 101.1

Power Details

Efficacy: 25 Lumen/Watt

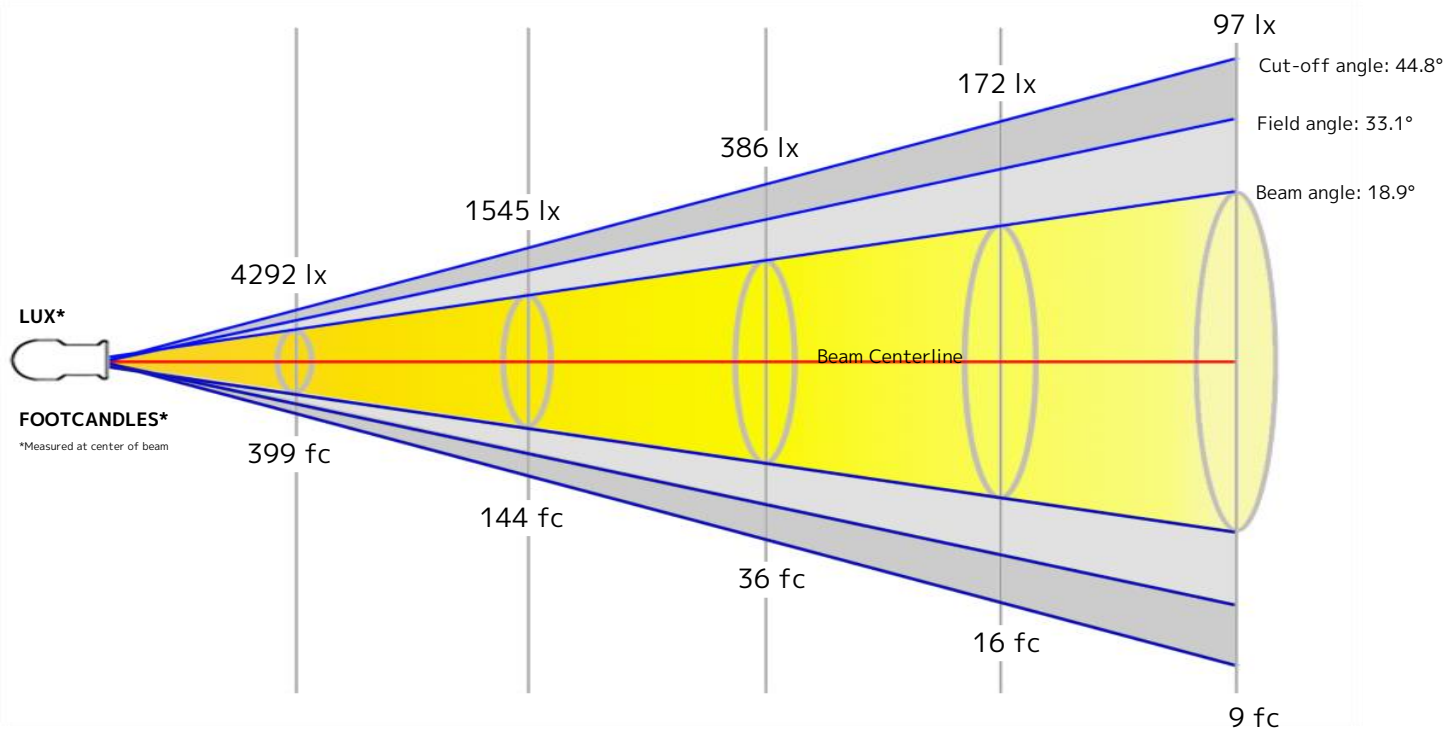
Power: 205.1 W

Supply Voltage: 117 V

Current: 1.82 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1 m	1.7 m	3.3 m	5 m	6.7 m



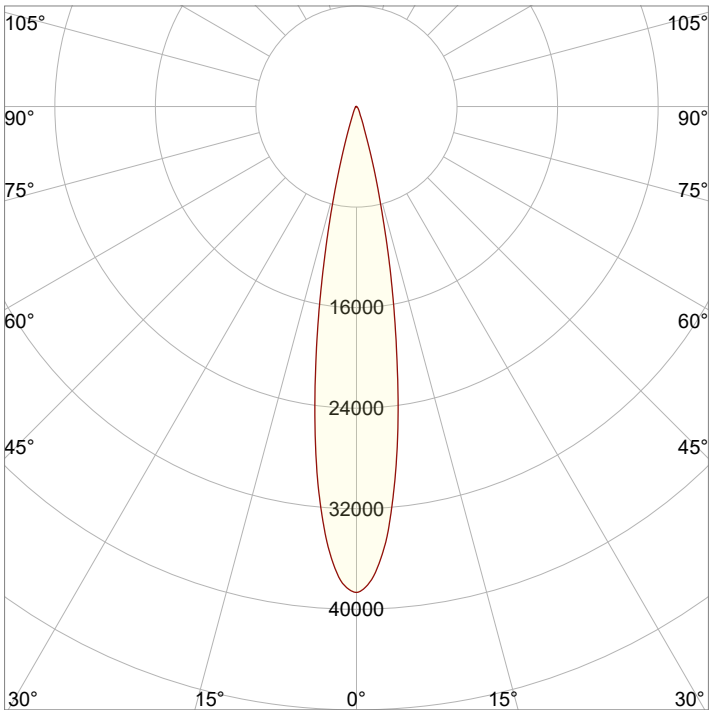
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	3.3 ft	5.5 ft	10.9 ft	16.4 ft	21.8 ft

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	38630	9658	4292	2414	1545	1073	788	604	477	386	319	268	229	197	172	151	134	119	107	97
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	3588.9	897.2	398.8	224.3	143.6	99.7	73.2	56.1	44.3	35.9	29.7	24.9	21.2	18.3	16	14	12.4	11.1	9.9	9

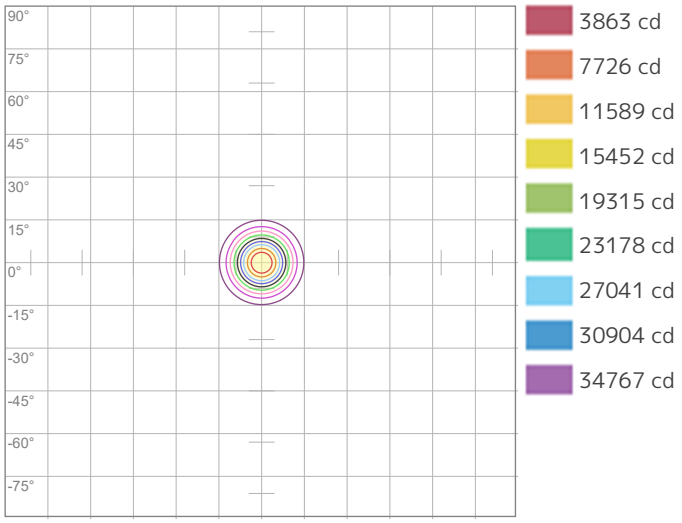
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
18.9°
Field Angle - 10%
33.1°
Cutoff Angle - 2.5%
44.8°

ISO Diagrams

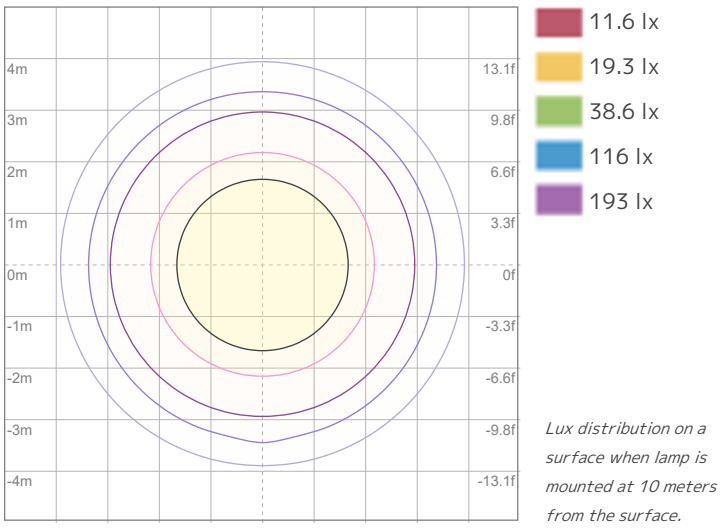


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 38630 cd



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

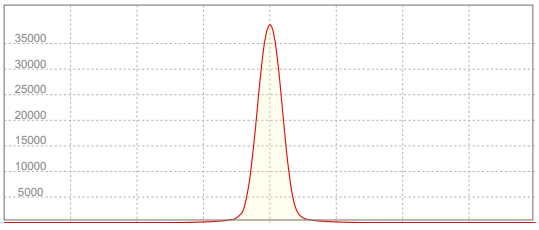
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 386 lx

Linear Distribution



Peak Candela

38650 cd

Calculate Center Beam Intensities

lux = 38650 / distance(m)^2

fc = 38650 / distance(ft)^2

Measurement Date: 11/16/2023

KL Fresnel 6 FC (Flood, Full Output)

Key Measurements

Output

Total Lumen Output: 6543 lm

Peak Intensity: 19917 cd

Beam

Beam Angle (50%): 33.8°

Field Angle (10%): 49.9°

Cutoff Angle (2.5%): 67.9°

Color

Color Temperature: 6820 K

CRI: 85.8

TLCI: 92

TM30 R_F: 86.1

TM30 R_g: 109.8

Power Details

Efficacy: 32 Lumen/Watt

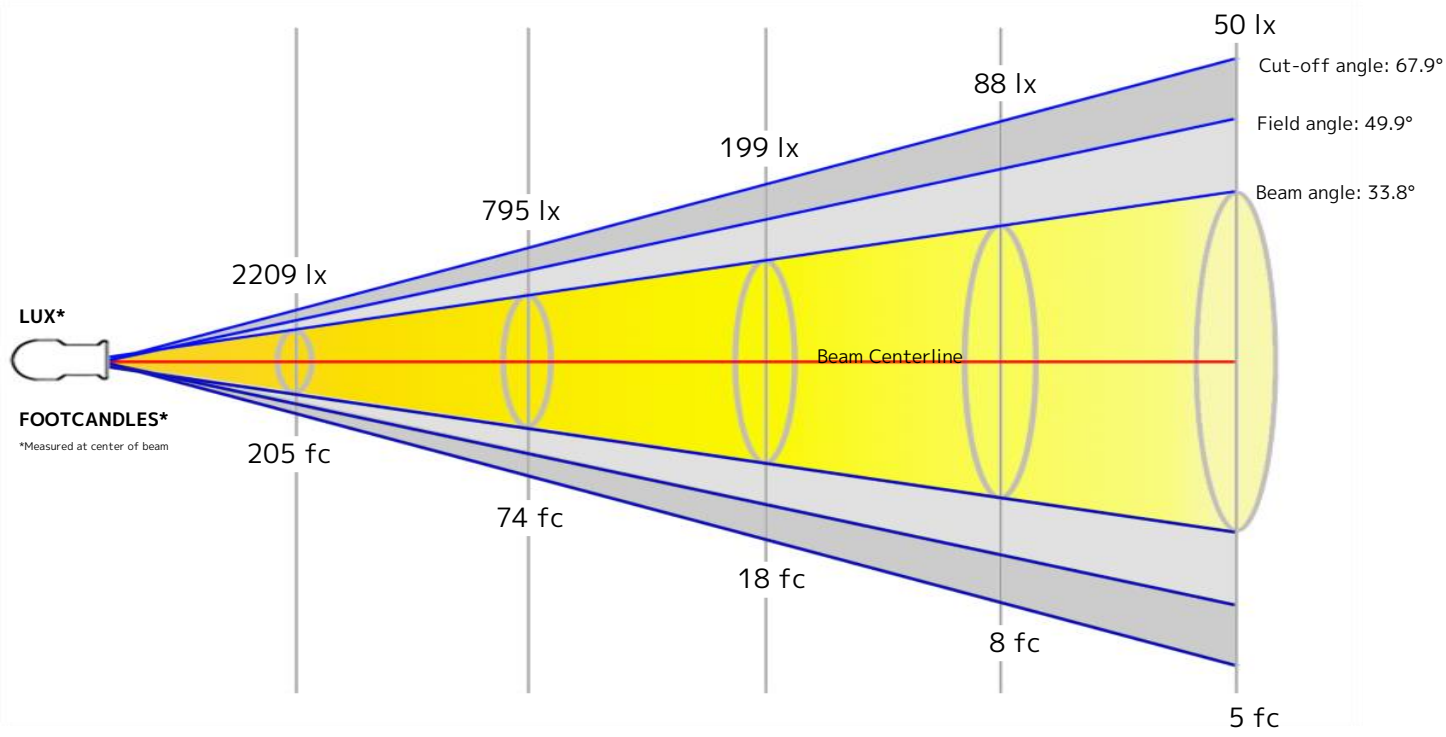
Power: 206.1 W

Supply Voltage: 118 V

Current: 1.80 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6.1 m	9.1 m	12.1 m



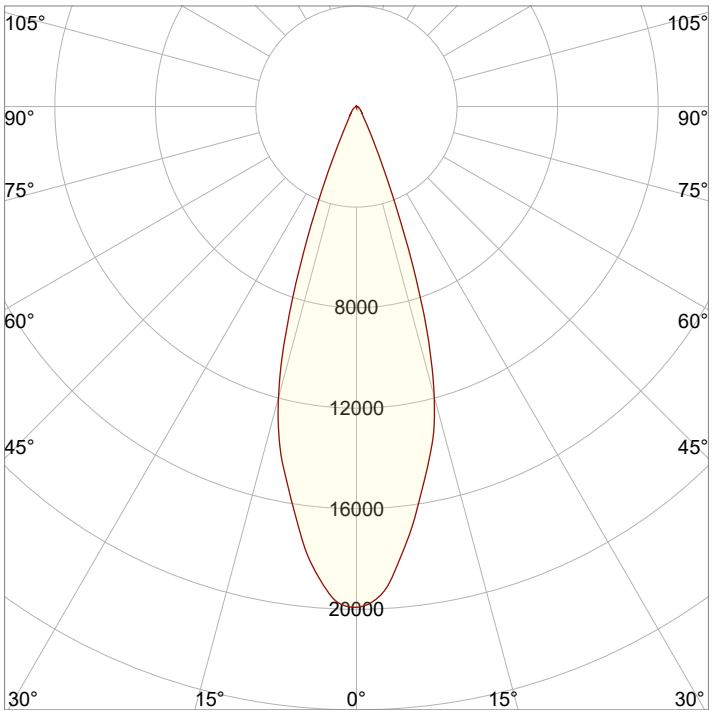
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	10 ft	19.9 ft	29.9 ft	39.8 ft

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	19884	4971	2209	1243	795	552	406	311	245	199	164	138	118	101	88	78	69	61	55	50
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	1847.3	461.8	205.3	115.5	73.9	51.3	37.7	28.9	22.8	18.5	15.3	12.8	10.9	9.4	8.2	7.2	6.4	5.7	5.1	4.6

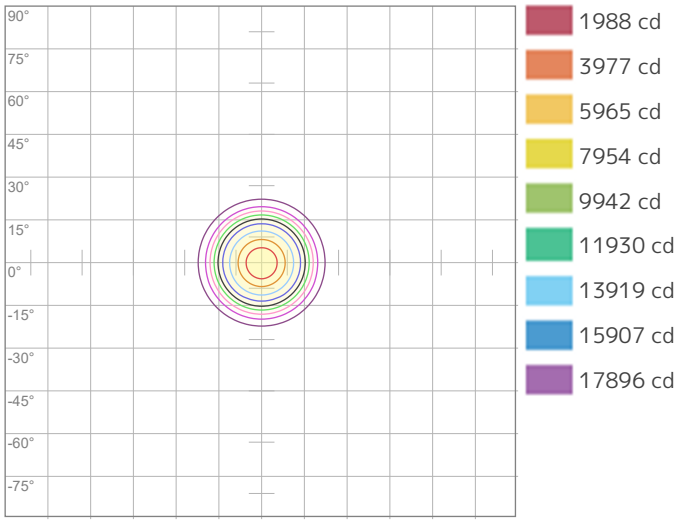
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
33.8°
Field Angle - 10%
49.9°
Cutoff Angle - 2.5%
67.9°

ISO Diagrams

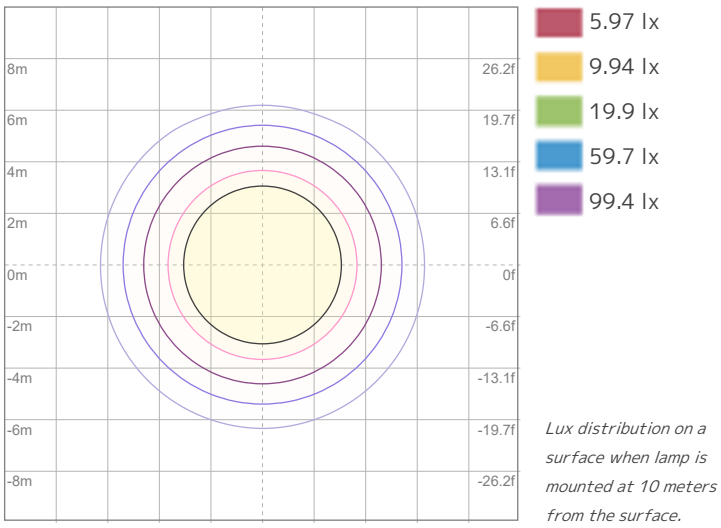


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 19884 cd



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

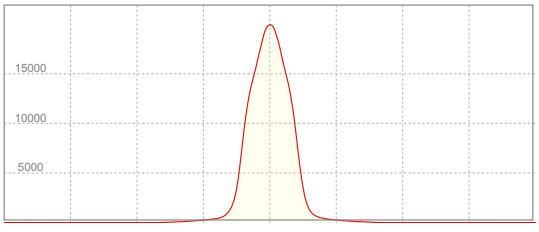
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 199 lx

Linear Distribution



Peak Candela

19917 cd

Calculate Center Beam Intensities

lux = 19917 / distance(m)^2

fc = 19917 / distance(ft)^2

Measurement Date: 11/15/2023

Key Measurements

Output

Total Lumen Output: 6455 lm

Peak Intensity: 20124 cd

Beam

Beam Angle (50%): 33.6°

Field Angle (10%): 49.9°

Cutoff Angle (2.5%): 66.2°

Color

Color Temperature: 2688 K

CRI: 91.5

TLCI: 90

TM30 R_F: 93.5

TM30 R_g: 104.4

Power Details

Efficacy: 32 Lumen/Watt

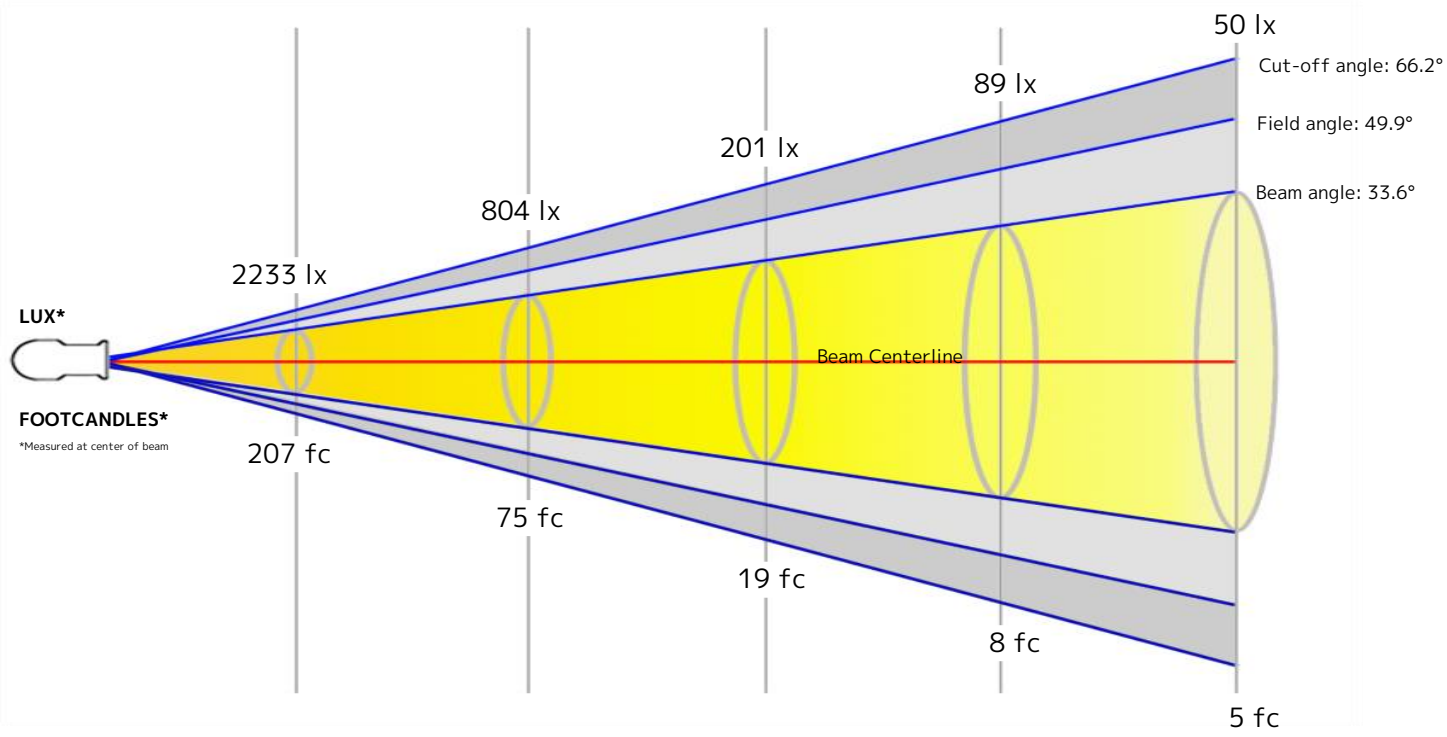
Power: 201.2 W

Supply Voltage: 117 V

Current: 1.78 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6 m	9.1 m	12.1 m



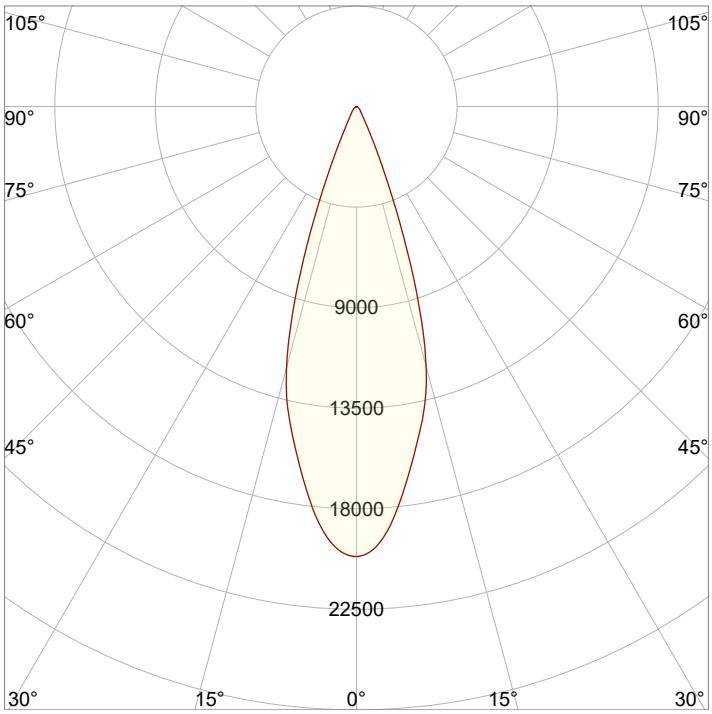
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	9.9 ft	19.8 ft	29.8 ft	39.7 ft

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	20101	5025	2233	1256	804	558	410	314	248	201	166	140	119	103	89	79	70	62	56	50
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	1867.5	466.9	207.5	116.7	74.7	51.9	38.1	29.2	23.1	18.7	15.4	13	11.1	9.5	8.3	7.3	6.5	5.8	5.2	4.7

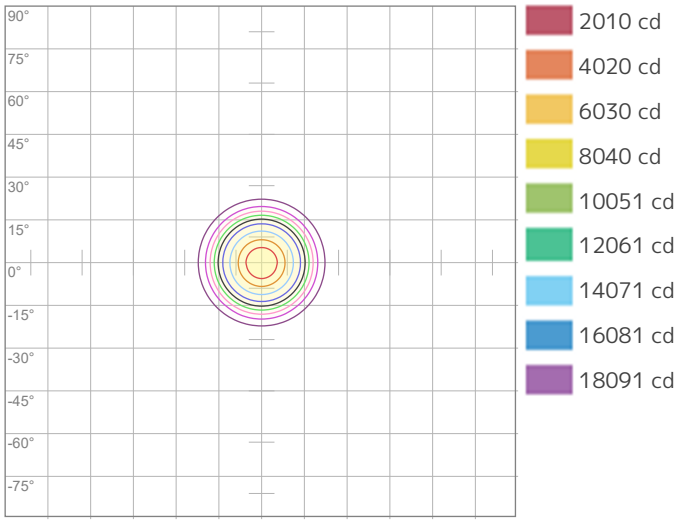
Measurement Date: 11/16/2023

Angular Distribution



Beam Angle - 50%
33.6°
Field Angle - 10%
49.9°
Cutoff Angle - 2.5%
66.2°

ISO Diagrams

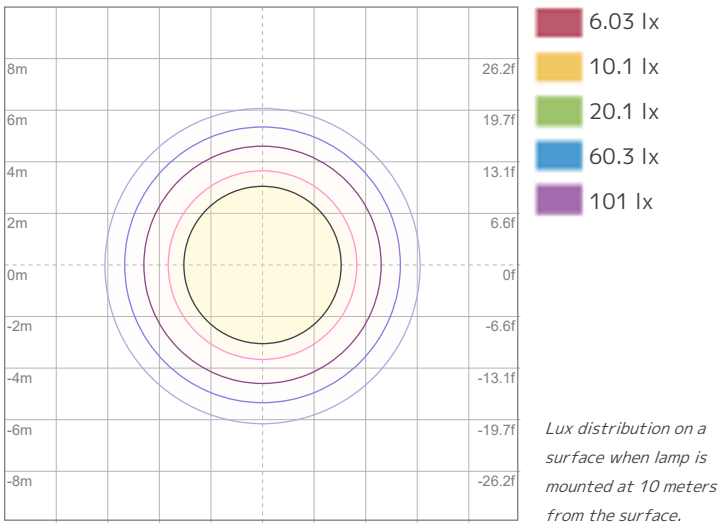


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 20101 cd



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

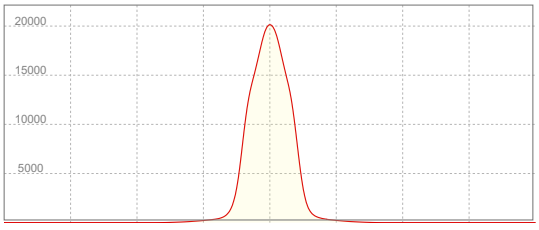
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 201 lx

Linear Distribution



Peak Candela

20124 cd

Calculate Center Beam Intensities

lux = 20124 / distance(m)^2

fc = 20124 / distance(ft)^2

Measurement Date: 11/16/2023

KL Fresnel 6 FC (Flood, 3200K)

Key Measurements

Output

Total Lumen Output: 6955 lm

Peak Intensity: 21482 cd

Beam

Beam Angle (50%): 33.6°

Field Angle (10%): 49.9°

Cutoff Angle (2.5%): 67.2°

Color

Color Temperature: 3228 K

CRI: 92.6

TLCI: 92

TM30 R_F: 93.4

TM30 R_g: 104.4

Power Details

Efficacy: 35 Lumen/Watt

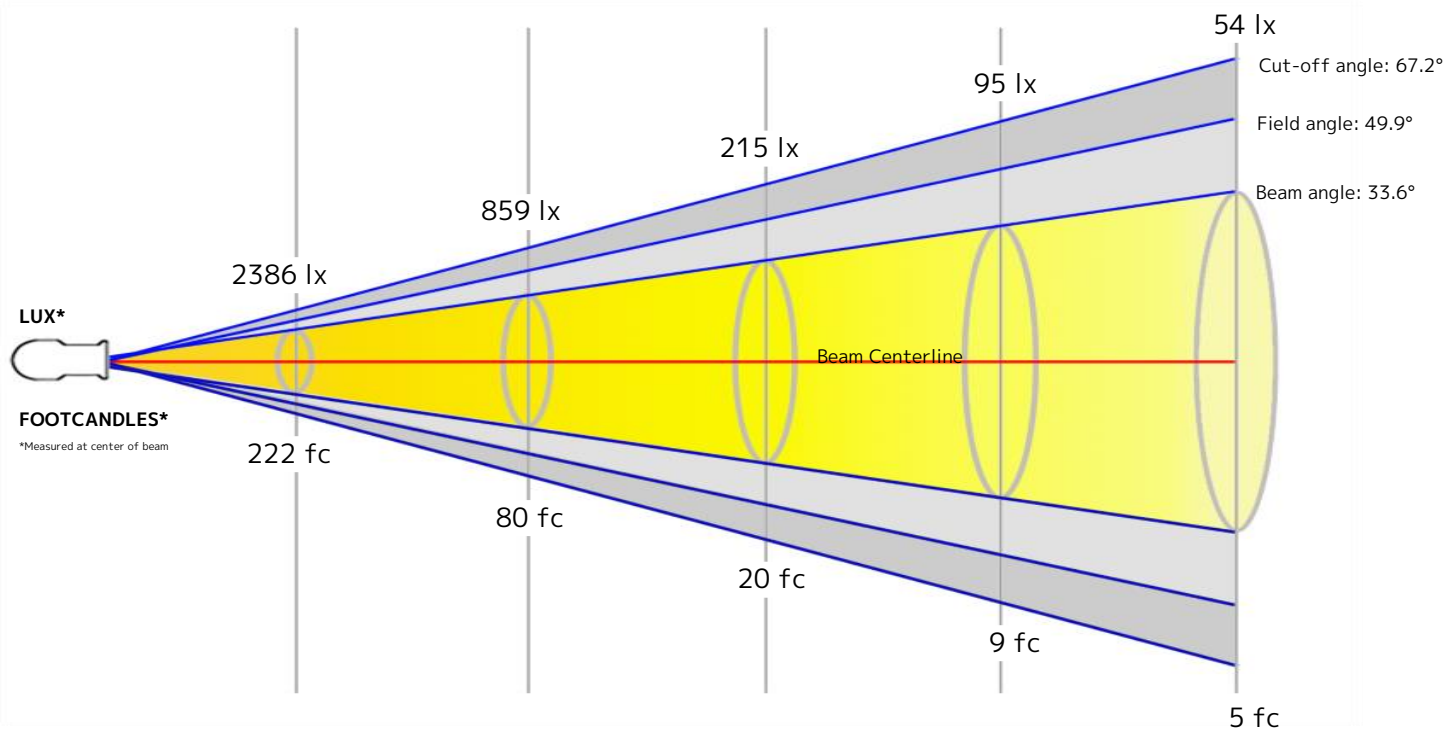
Power: 200.9 W

Supply Voltage: 119 V

Current: 1.75 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6 m	9.1 m	12.1 m



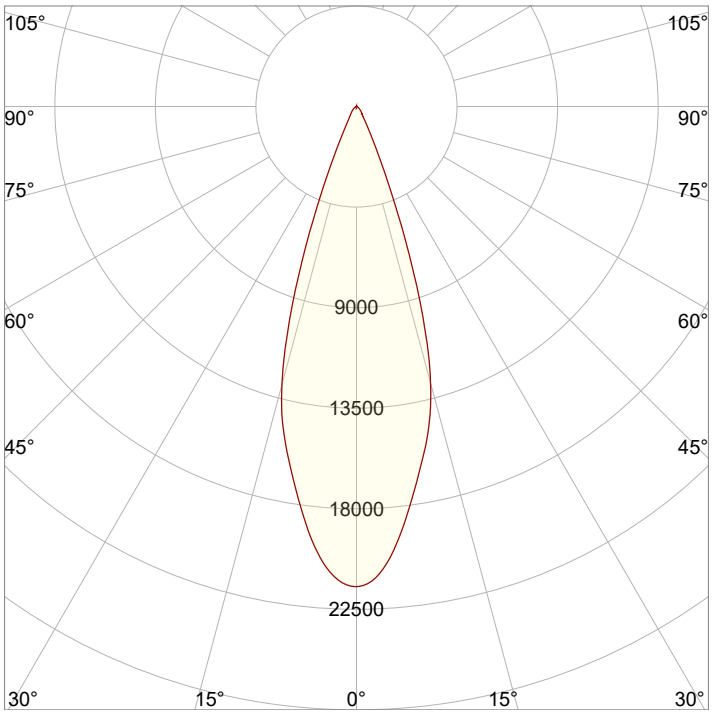
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	9.9 ft	19.8 ft	29.7 ft	39.6 ft

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	21474	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	1995	498.7	221.7	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

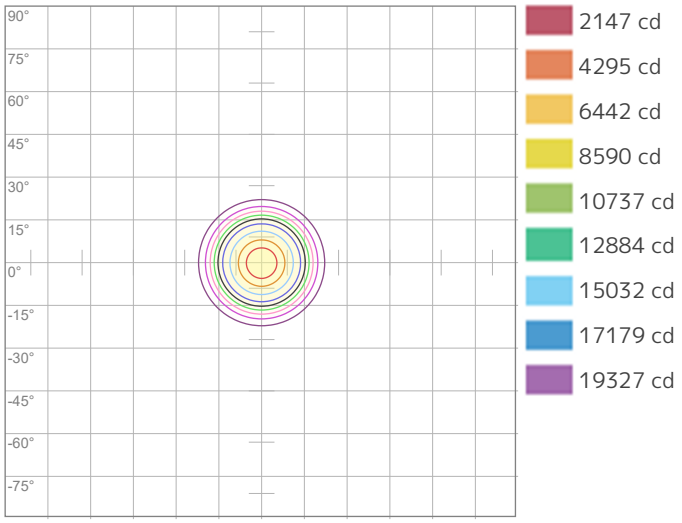
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
33.6°
Field Angle - 10%
49.9°
Cutoff Angle - 2.5%
67.2°

ISO Diagrams

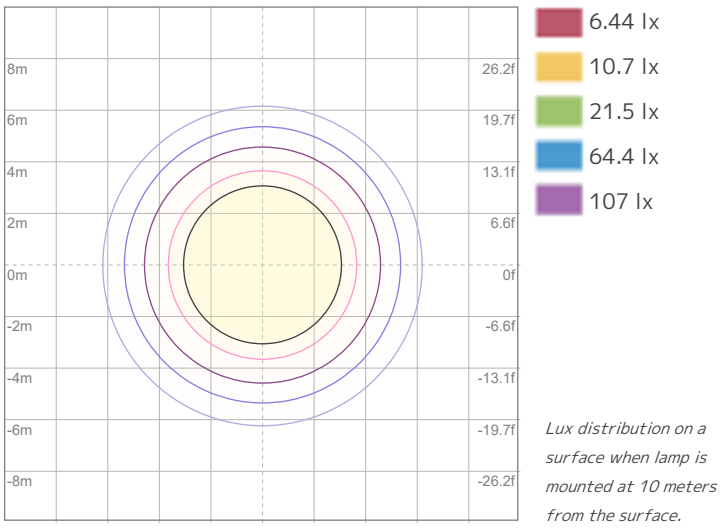


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 21474 cd



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

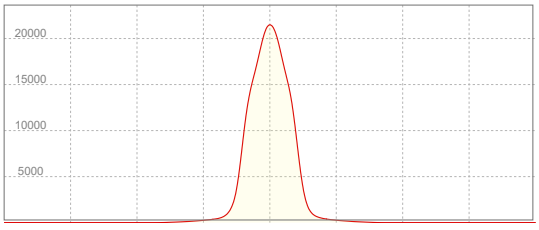
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 215 lx

Linear Distribution



Peak Candela

21482 cd

Calculate Center Beam Intensities

lux = 21482 / distance(m)^2

fc = 21482 / distance(ft)^2

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Flood, 4000K)

Key Measurements

Output

Total Lumen Output: 7113 lm

Peak Intensity: 21829 cd

Beam

Beam Angle (50%): 33.6°

Field Angle (10%): 50°

Cutoff Angle (2.5%): 67.6°

Color

Color Temperature: 4048 K

CRI: 92.5

TLCI: 91

TM30 R_F: 91.8

TM30 R_g: 103.2

Power Details

Efficacy: 36 Lumen/Watt

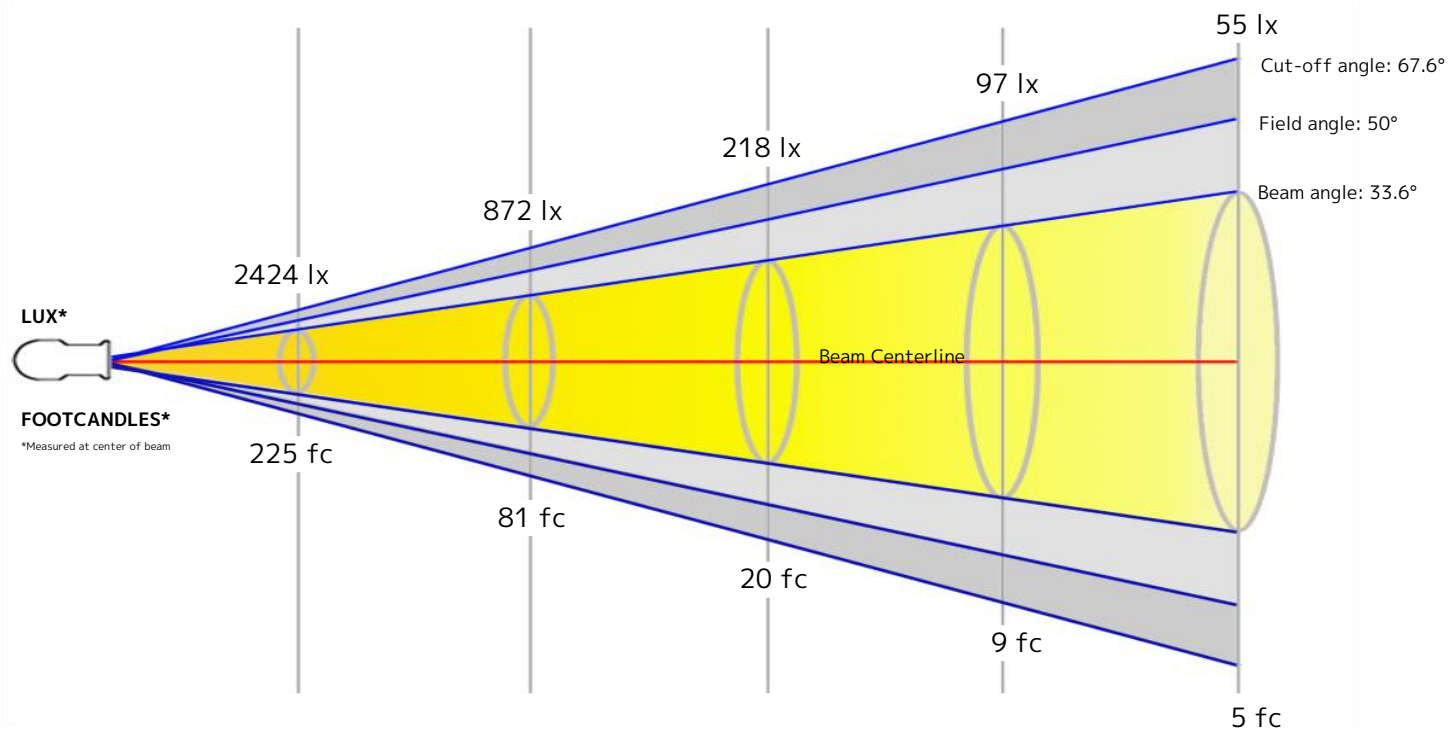
Power: 200.3 W

Supply Voltage: 119 V

Current: 1.74 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6 m	9.1 m	12.1 m



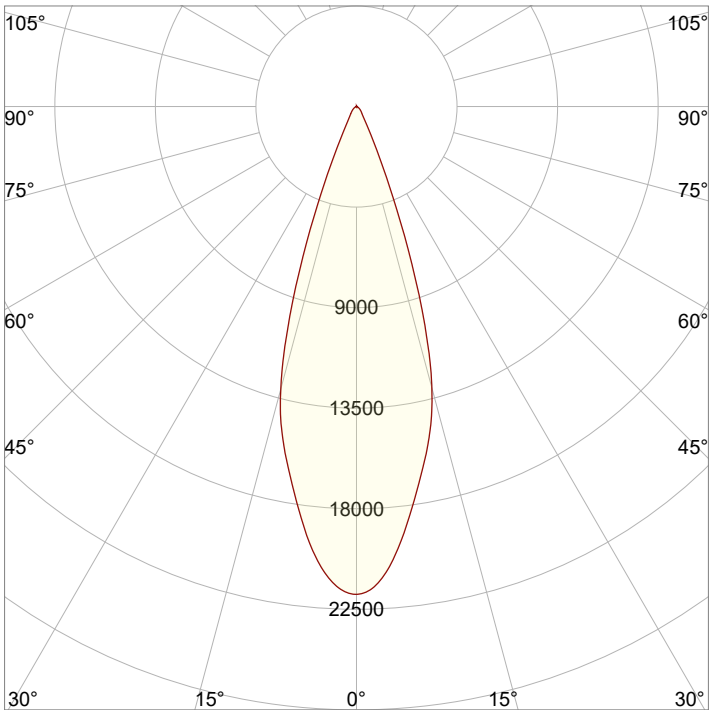
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	9.9 ft	19.8 ft	29.7 ft	39.6 ft

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	21812	5453	2424	1363	872	606	445	341	269	218	180	151	129	111	97	85	75	67	60	55
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	2026.4	506.6	225.2	126.7	81.1	56.3	41.4	31.7	25	20.3	16.7	14.1	12	10.3	9	7.9	7	6.3	5.6	5.1

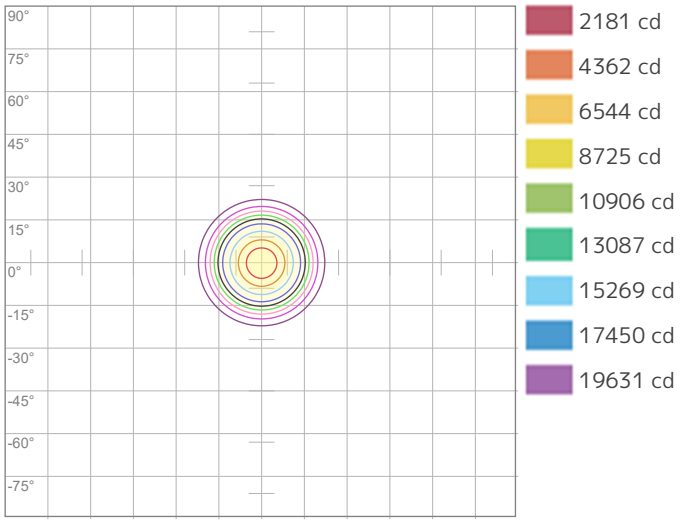
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
33.6°
Field Angle - 10%
50°
Cutoff Angle - 2.5%
67.6°

ISO Diagrams

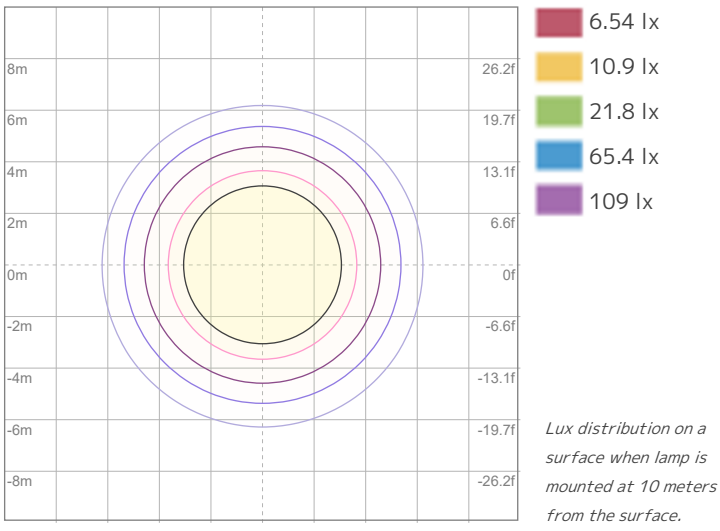


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 21812 cd



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

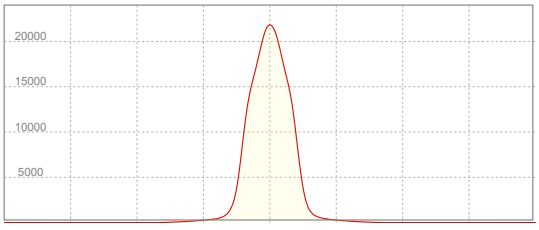
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 218 lx

Linear Distribution



Peak Candela

21829 cd

Calculate Center Beam Intensities

lux = 21829 / distance(m)^2

fc = 21829 / distance(ft)^2

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Flood, 4500K)

Key Measurements

Output

Total Lumen Output: 7062 lm

Peak Intensity: 21537 cd

Beam

Beam Angle (50%): 33.6°

Field Angle (10%): 50°

Cutoff Angle (2.5%): 68.1°

Color

Color Temperature: 4558 K

CRI: 92.3

TLCI: 91

TM30 R_F: 90.8

TM30 R_g: 103.5

Power Details

Efficacy: 35 Lumen/Watt

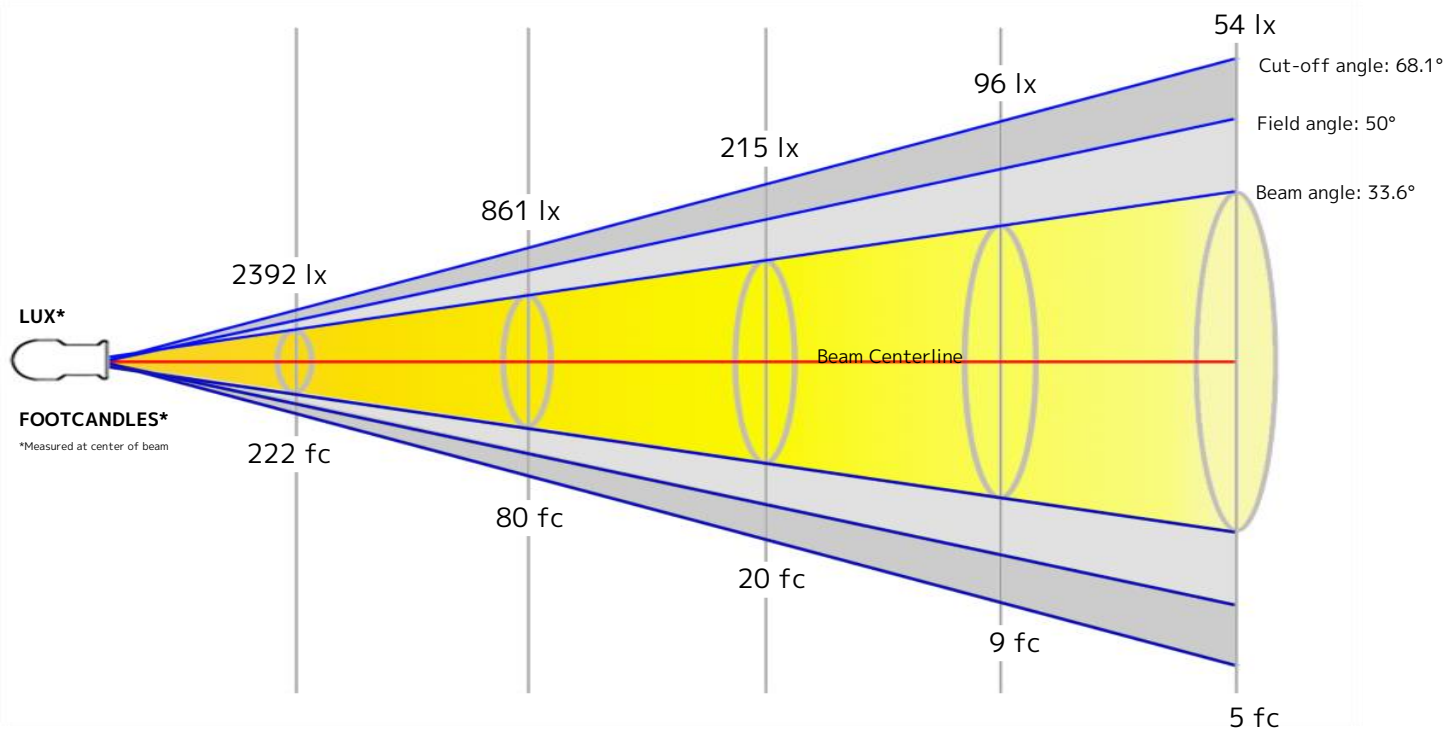
Power: 200.1 W

Supply Voltage: 119 V

Current: 1.75 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6 m	9.1 m	12.1 m



Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	9.9 ft	19.8 ft	29.7 ft	39.7 ft

Beam Intensities from 1-20m

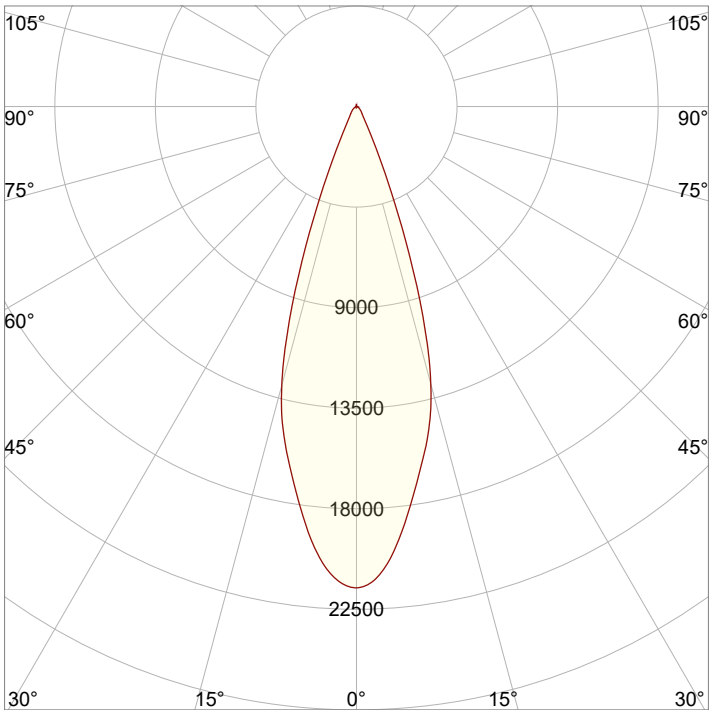
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	21528	5382	2392	1346	861	598	439	336	266	215	178	150	127	110	96	84	74	66	60	54
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	2000.1	500	222.2	125	80	55.6	40.8	31.3	24.7	20	16.5	13.9	11.8	10.2	8.9	7.8	6.9	6.2	5.5	5

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Flood, 4500K)

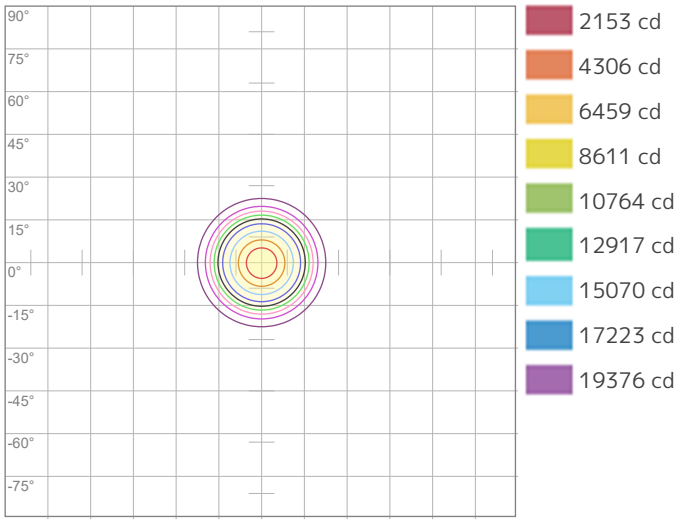
Prepared For ELATION PROFESSIONAL

Angular Distribution



Beam Angle - 50%
33.6°
Field Angle - 10%
50°
Cutoff Angle - 2.5%
68.1°

ISO Diagrams

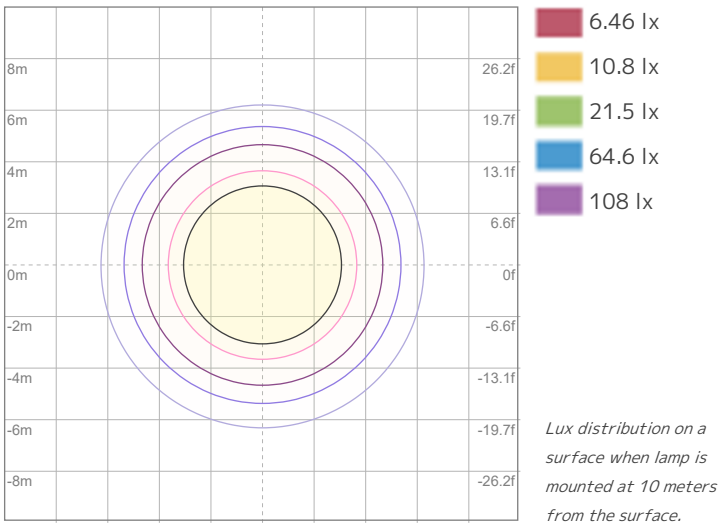


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 21528 cd



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

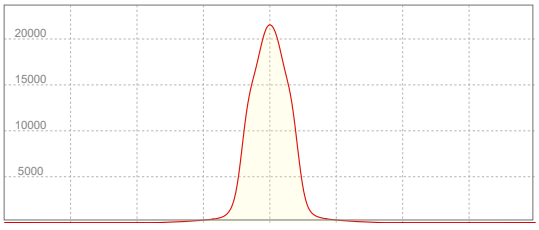
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 215 lx

Linear Distribution



Peak Candela

21537 cd

Calculate Center Beam Intensities

lux = 21537 / distance(m)^2

fc = 21537 / distance(ft)^2

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Flood, 5600K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 6778 lm

Peak Intensity: 20620 cd

Beam

Beam Angle (50%): 33.7°

Field Angle (10%): 50°

Cutoff Angle (2.5%): 68.2°

Color

Color Temperature: 5588 K

CRI: 91.8

TLCI: 92

TM30 R_F: 90.3

TM30 R_g: 104.1

Power Details

Efficacy: 34 Lumen/Watt

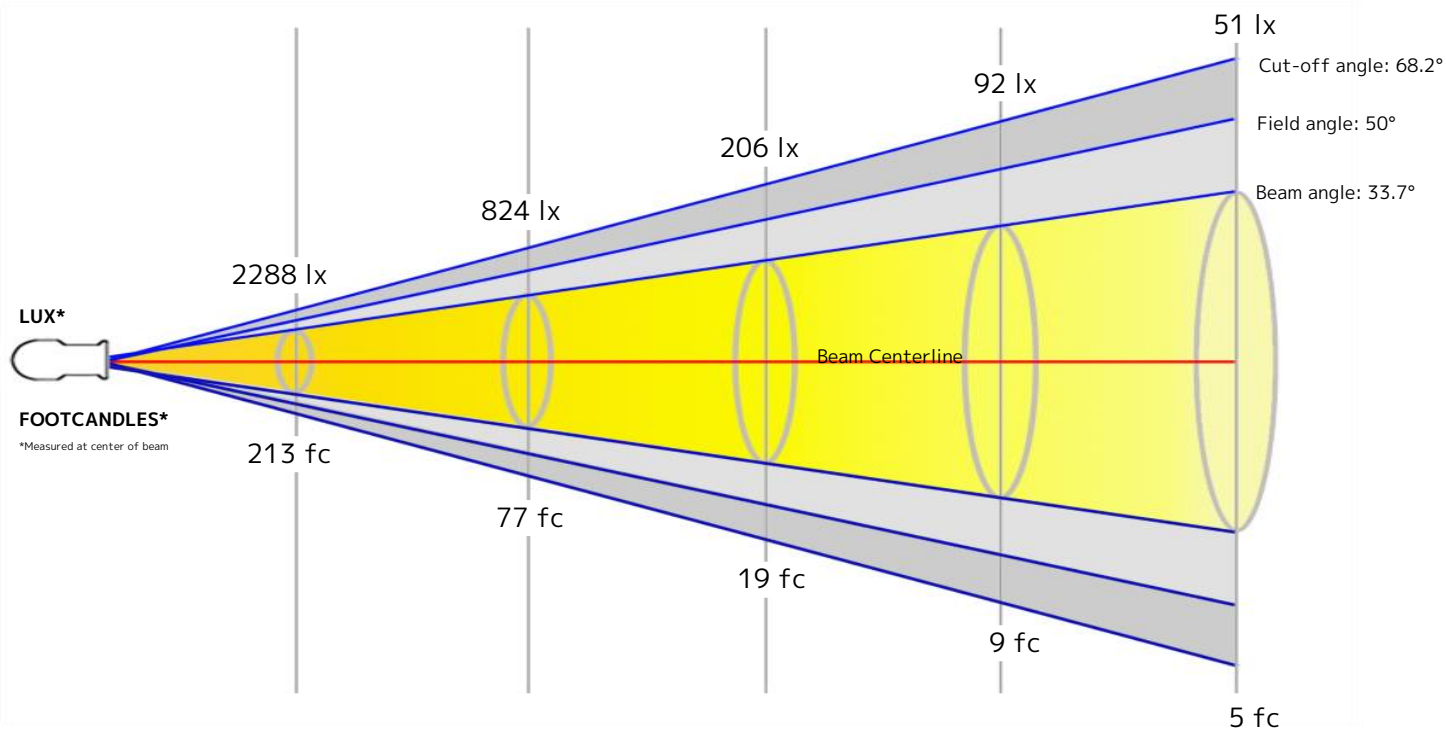
Power: 198.3 W

Supply Voltage: 119 V

Current: 1.73 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6.1 m	9.1 m	12.1 m



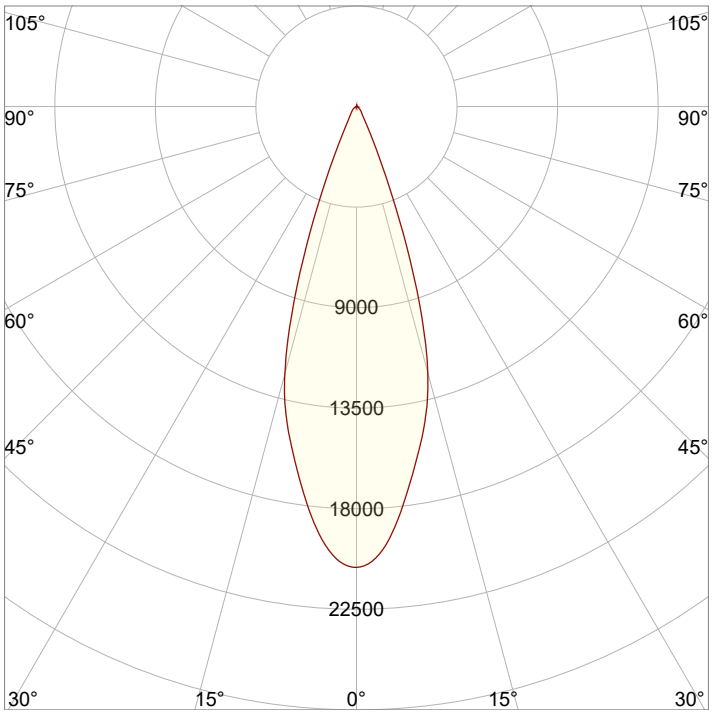
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	9.9 ft	19.8 ft	29.8 ft	39.7 ft

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	20591	5148	2288	1287	824	572	420	322	254	206	170	143	122	105	92	80	71	64	57	51
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	1913	478.2	212.6	119.6	76.5	53.1	39	29.9	23.6	19.1	15.8	13.3	11.3	9.8	8.5	7.5	6.6	5.9	5.3	4.8

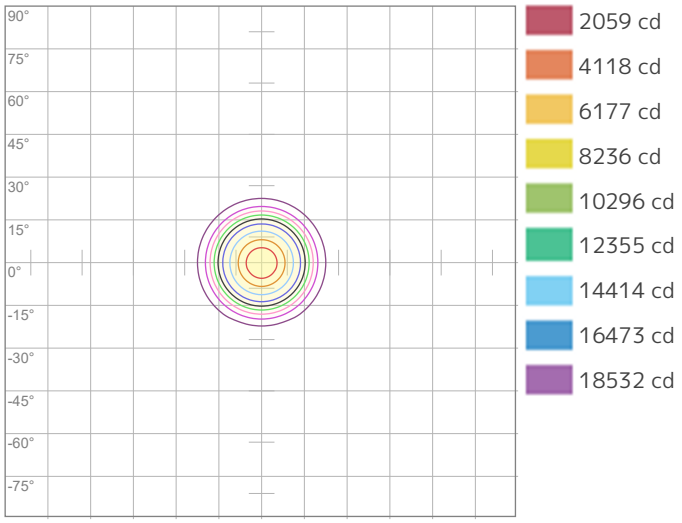
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
33.7°
Field Angle - 10%
50°
Cutoff Angle - 2.5%
68.2°

ISO Diagrams

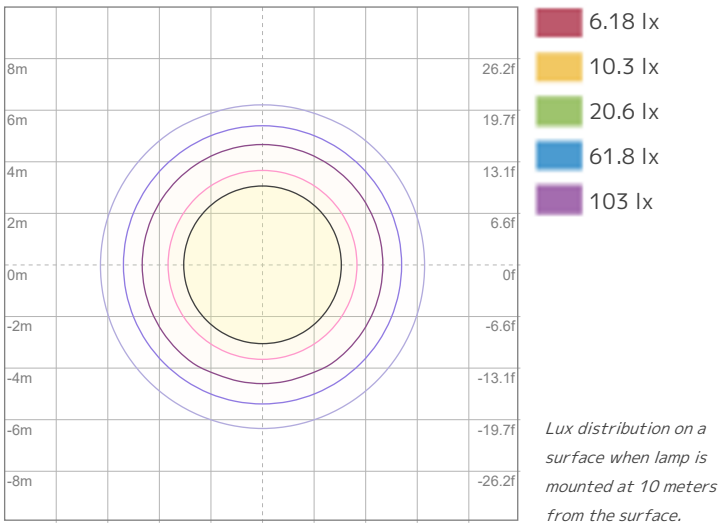


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 20591 cd



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

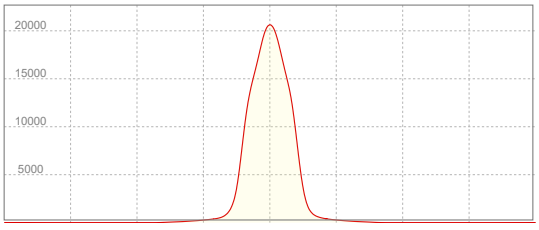
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 206 lx

Linear Distribution



Peak Candela

20620 cd

Calculate Center Beam Intensities

lux = 20620 / distance(m)^2

fc = 20620 / distance(ft)^2

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Flood, 6000K)

Key Measurements

Output

Total Lumen Output: 6957 lm

Peak Intensity: 21148 cd

Beam

Beam Angle (50%): 33.7°

Field Angle (10%): 50°

Cutoff Angle (2.5%): 68.4°

Color

Color Temperature: 6000 K

CRI: 91.6

TLCI: 92

TM30 R_F: 89.9

TM30 R_g: 103.6

Power Details

Efficacy: 34 Lumen/Watt

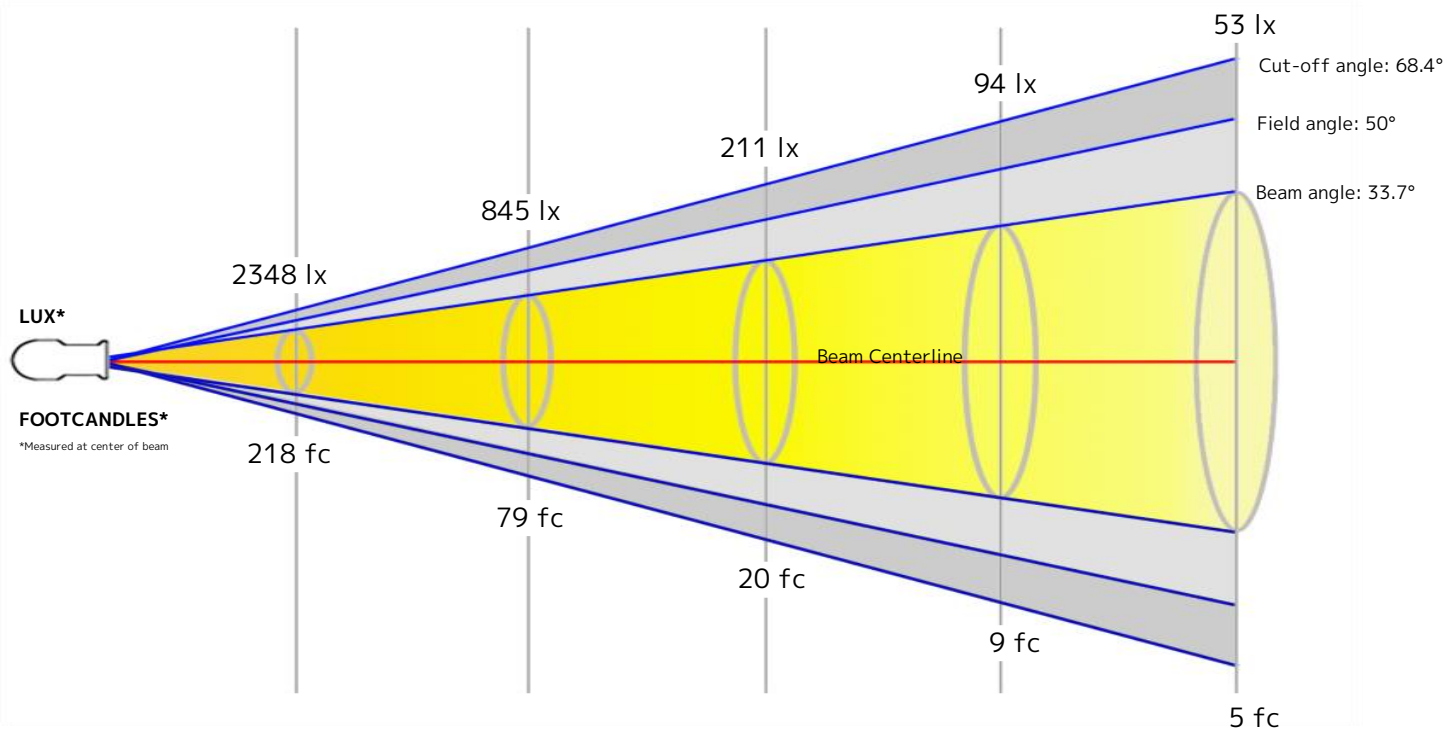
Power: 205.2 W

Supply Voltage: 118 V

Current: 1.79 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6 m	9.1 m	12.1 m



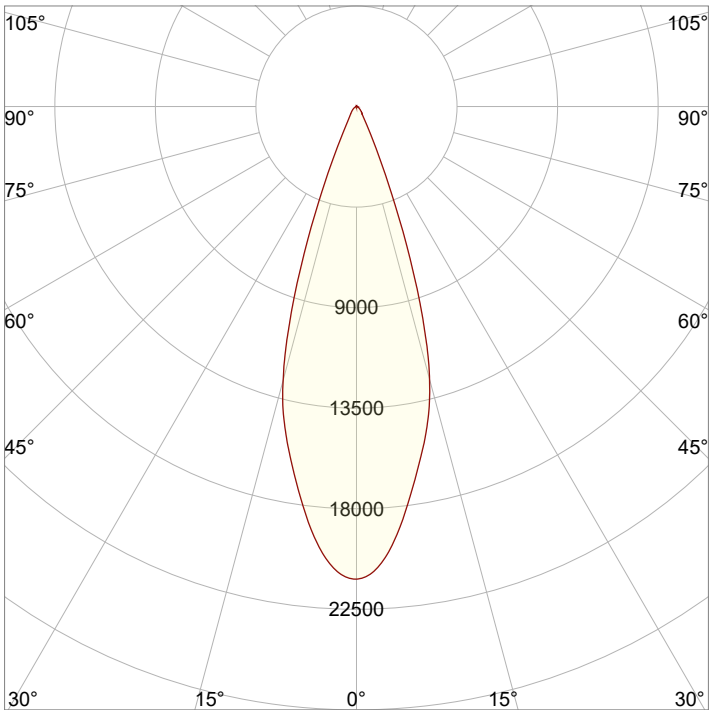
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	9.9 ft	19.8 ft	29.8 ft	39.7 ft

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	21135	5284	2348	1321	845	587	431	330	261	211	175	147	125	108	94	83	73	65	59	53
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	1963.5	490.9	218.2	122.7	78.5	54.5	40.1	30.7	24.2	19.6	16.2	13.6	11.6	10	8.7	7.7	6.8	6.1	5.4	4.9

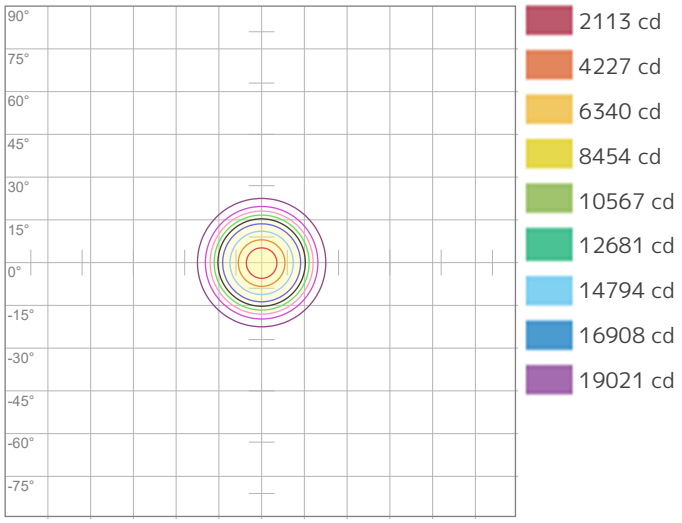
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
33.7°
Field Angle - 10%
50°
Cutoff Angle - 2.5%
68.4°

ISO Diagrams

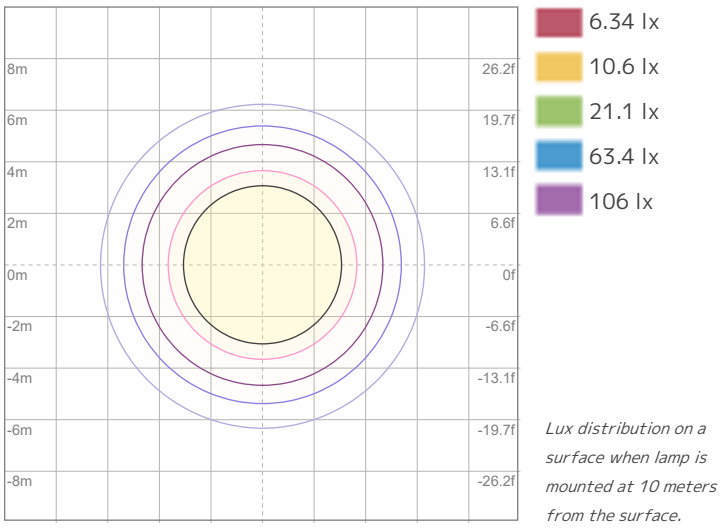


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 21135 cd



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

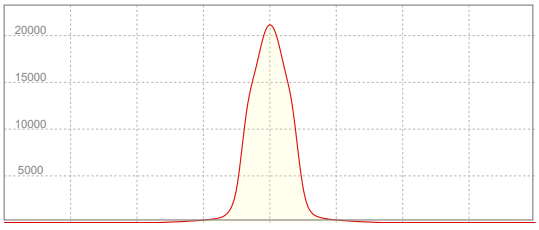
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 211 lx

Linear Distribution



Peak Candela

21148 cd

Calculate Center Beam Intensities

lux = 21148 / distance(m)^2

fc = 21148 / distance(ft)^2

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Flood, 6500K)

Key Measurements

Output

Total Lumen Output: 6968 lm

Peak Intensity: 21124 cd

Beam

Beam Angle (50%): 33.7°

Field Angle (10%): 50.1°

Cutoff Angle (2.5%): 68.3°

Color

Color Temperature: 6491 K

CRI: 91.0

TLCI: 92

TM30 R_F: 89.0

TM30 R_g: 102.6

Power Details

Efficacy: 34 Lumen/Watt

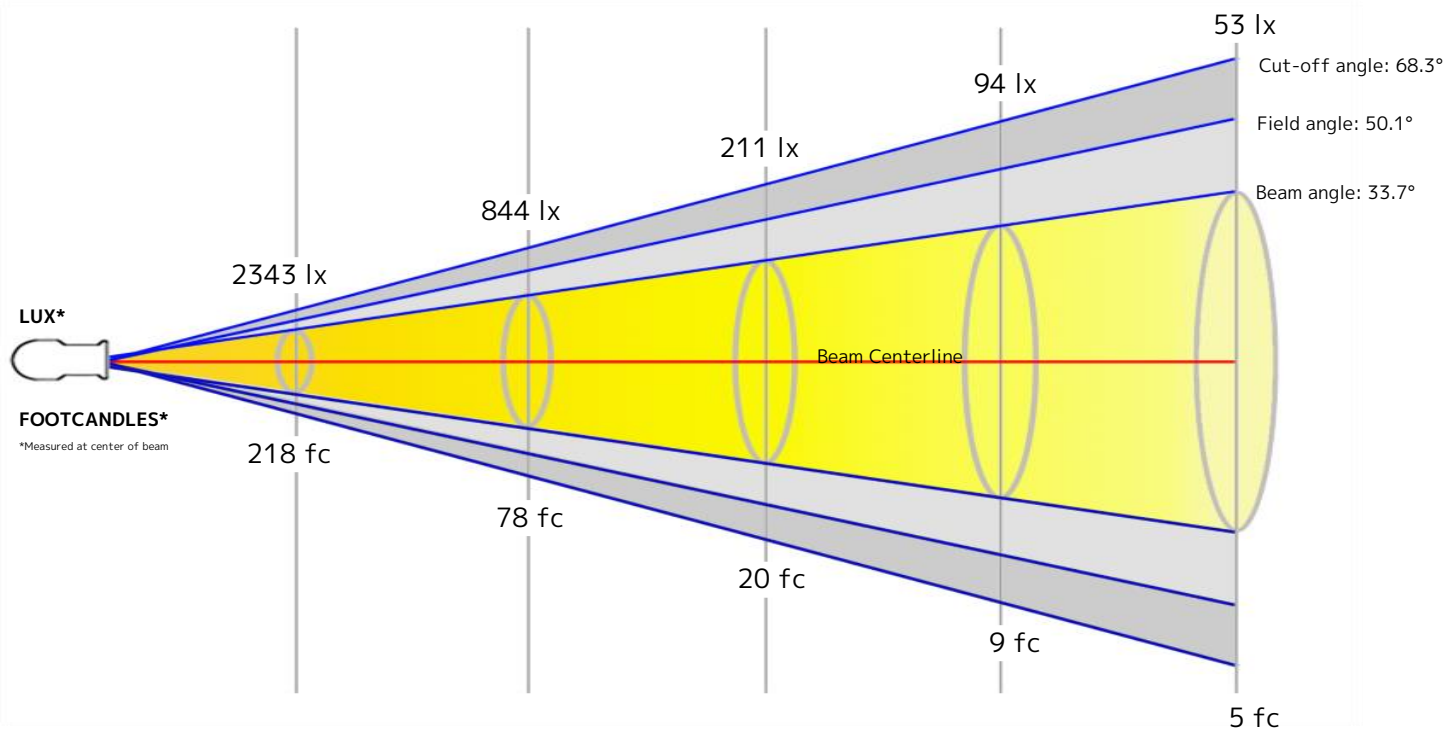
Power: 205.5 W

Supply Voltage: 119 V

Current: 1.79 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6 m	9.1 m	12.1 m



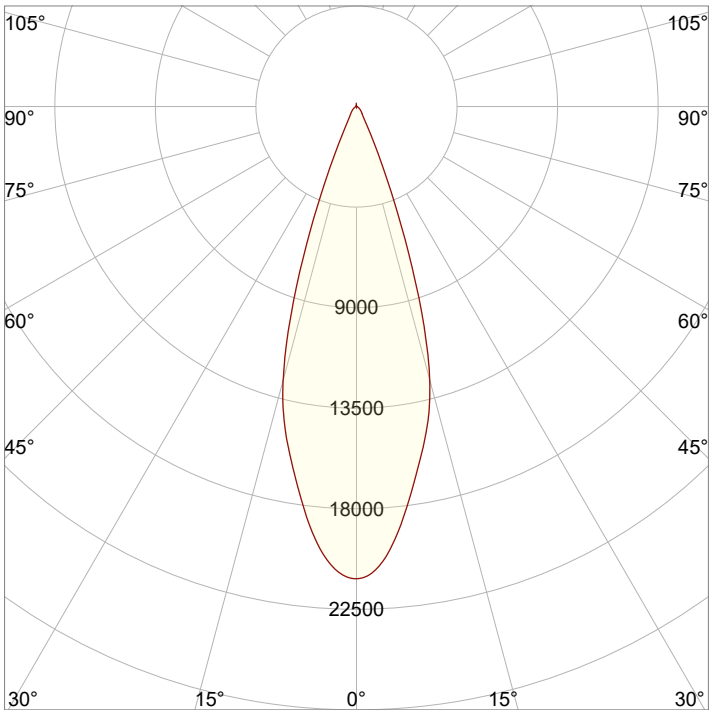
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	9.9 ft	19.8 ft	29.8 ft	39.7 ft

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	21090	5272	2343	1318	844	586	430	330	260	211	174	146	125	108	94	82	73	65	58	53
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	1959.3	489.8	217.7	122.5	78.4	54.4	40	30.6	24.2	19.6	16.2	13.6	11.6	10	8.7	7.7	6.8	6	5.4	4.9

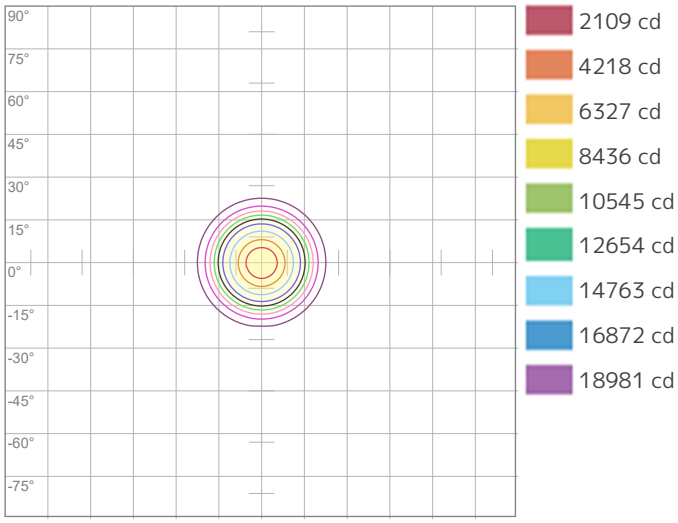
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
33.7°
Field Angle - 10%
50.1°
Cutoff Angle - 2.5%
68.3°

ISO Diagrams

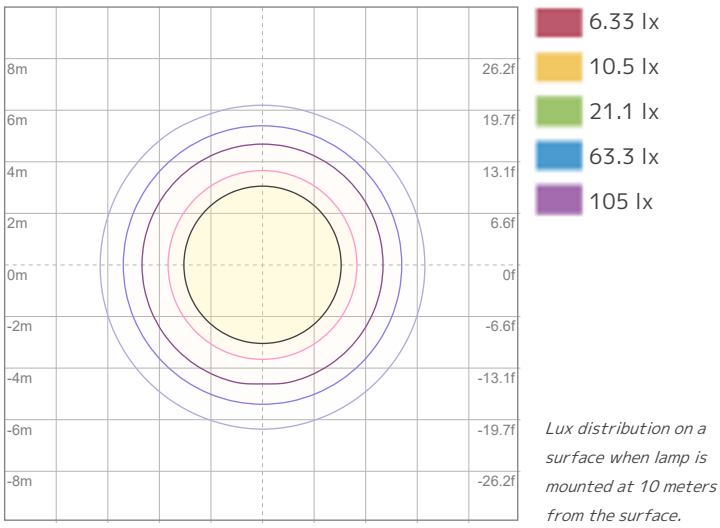


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 21090 cd



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

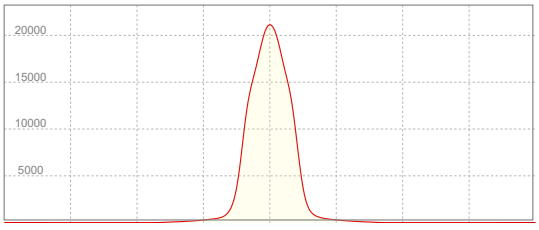
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 211 lx

Linear Distribution



Peak Candela

21124 cd

Calculate Center Beam Intensities

lux = 21124 / distance(m)^2

fc = 21124 / distance(ft)^2

Measurement Date: 11/15/2023

KL Fresnel 6 FC (Flood, 8000K)

Key Measurements

Output

Total Lumen Output: 7267 lm

Peak Intensity: 22052 cd

Beam

Beam Angle (50%): 33.6°

Field Angle (10%): 50°

Cutoff Angle (2.5%): 68.6°

Color

Color Temperature: 8018 K

CRI: 90.0

TLCI: 91

TM30 R_F: 87.8

TM30 R_g: 100.9

Power Details

Efficacy: 34 Lumen/Watt

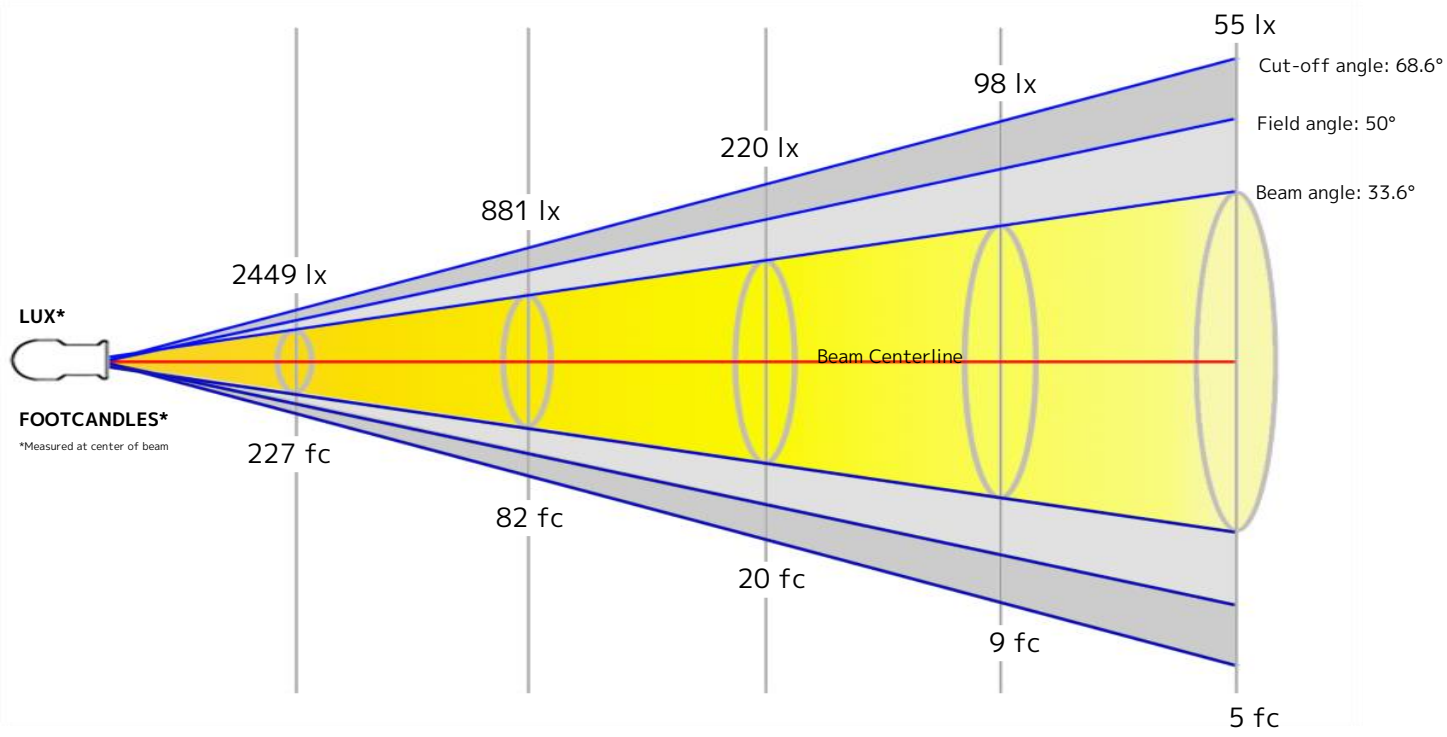
Power: 214 W

Supply Voltage: 118 V

Current: 1.87 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.8 m	3 m	6 m	9.1 m	12.1 m



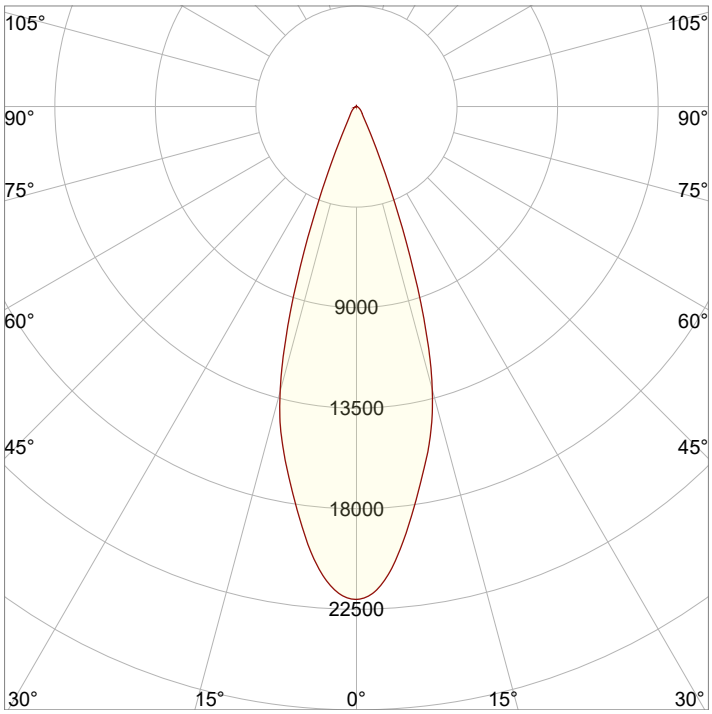
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.9 ft	9.9 ft	19.8 ft	29.7 ft	39.6 ft

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	22037	5509	2449	1377	881	612	450	344	272	220	182	153	130	112	98	86	76	68	61	55
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	2047.3	511.8	227.5	128	81.9	56.9	41.8	32	25.3	20.5	16.9	14.2	12.1	10.4	9.1	8	7.1	6.3	5.7	5.1

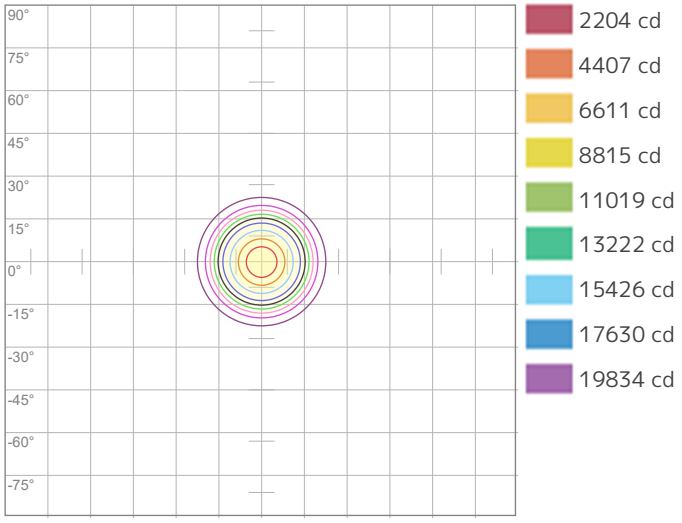
Measurement Date: 11/15/2023

Angular Distribution



Beam Angle - 50%
33.6°
Field Angle - 10%
50°
Cutoff Angle - 2.5%
68.6°

ISO Diagrams

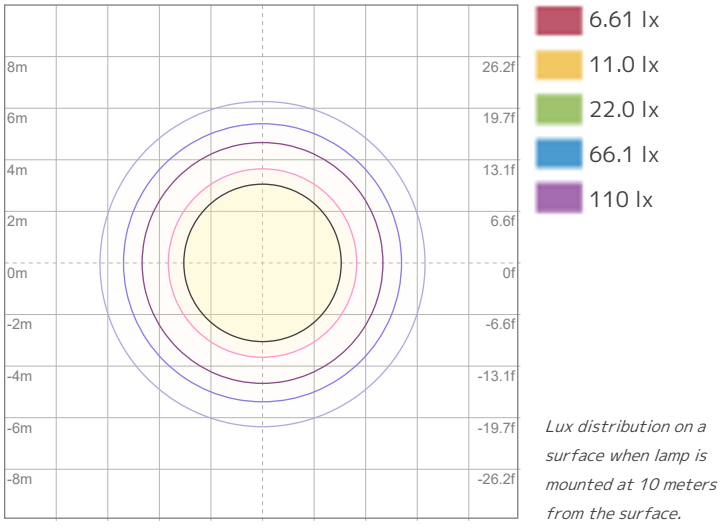


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 22037 cd



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

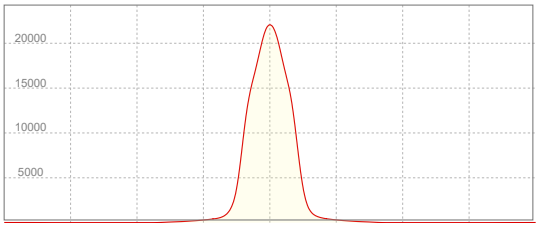
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 220 lx

Linear Distribution



Peak Candela

22052 cd

Calculate Center Beam Intensities

lux = 22052 / distance(m)^2

fc = 22052 / distance(ft)^2

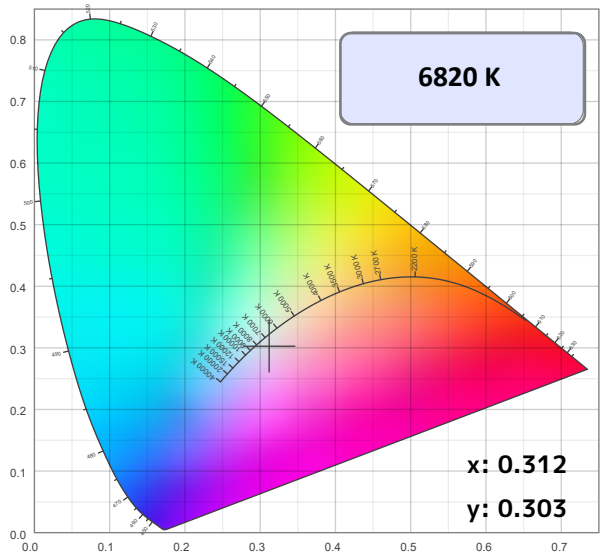
Measurement Date: 11/15/2023

Color Temperature: 6820K

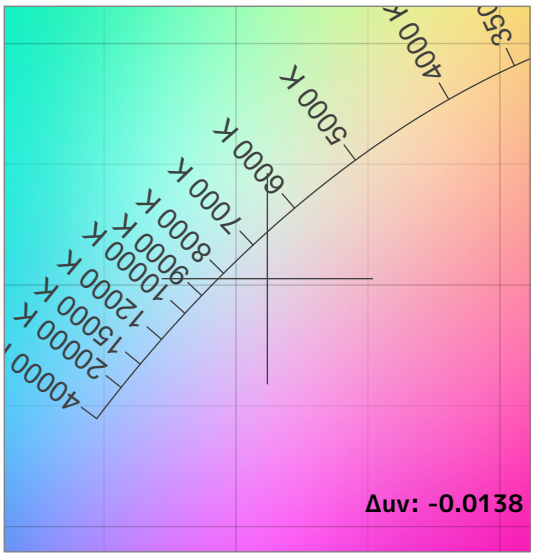
Accuracy Metric Overview

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 Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
85.8	34.5	86.1	109.8	92	89.7	0.312	0.303	-0.0138	18	52

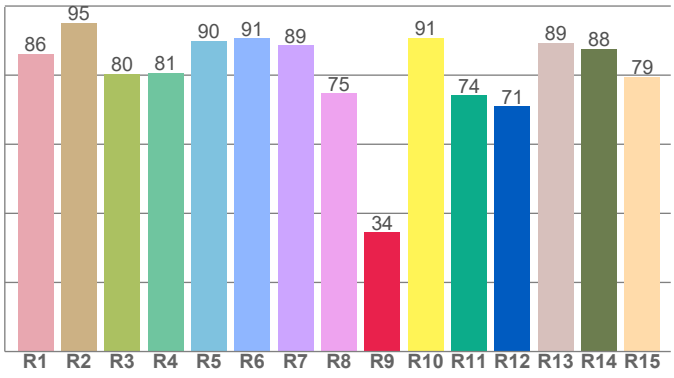
CIE 1931



CIE 1931 ZOOMED

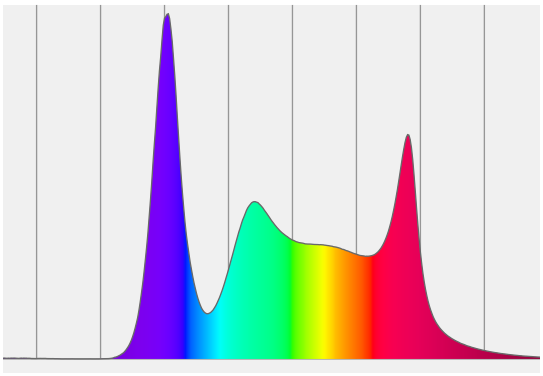


CRI: 85.8 (R1-R8)



Spectral Power Distribution (SPD)

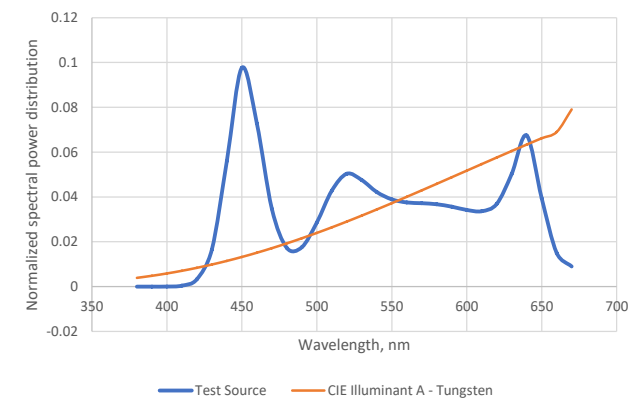
Dominant Wavelength 360 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 18

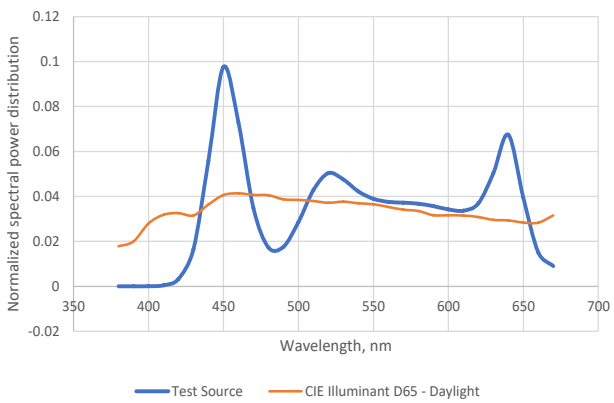
Spectral variance



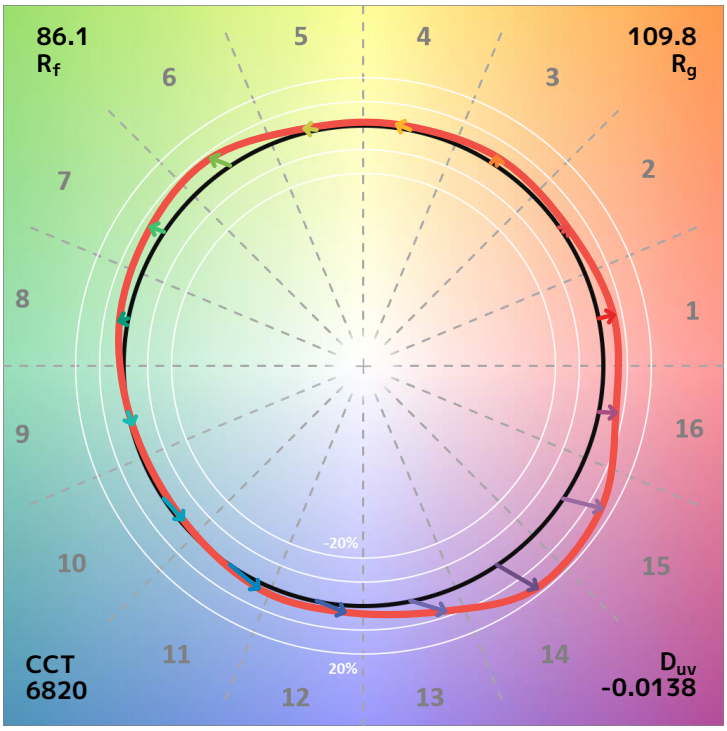
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 52

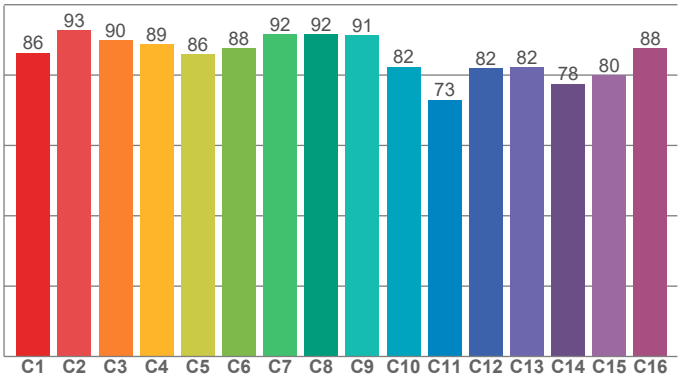
Spectral variance



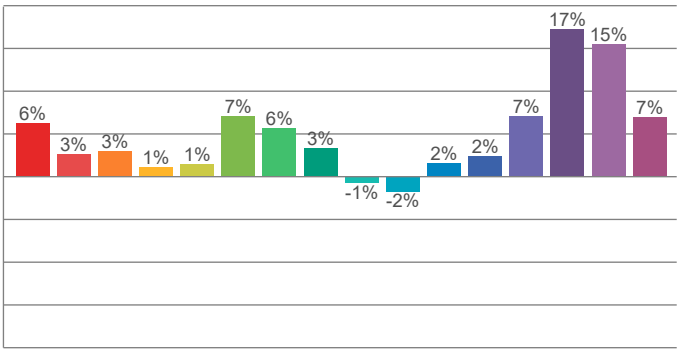
Measurement Date: 11/15/2023



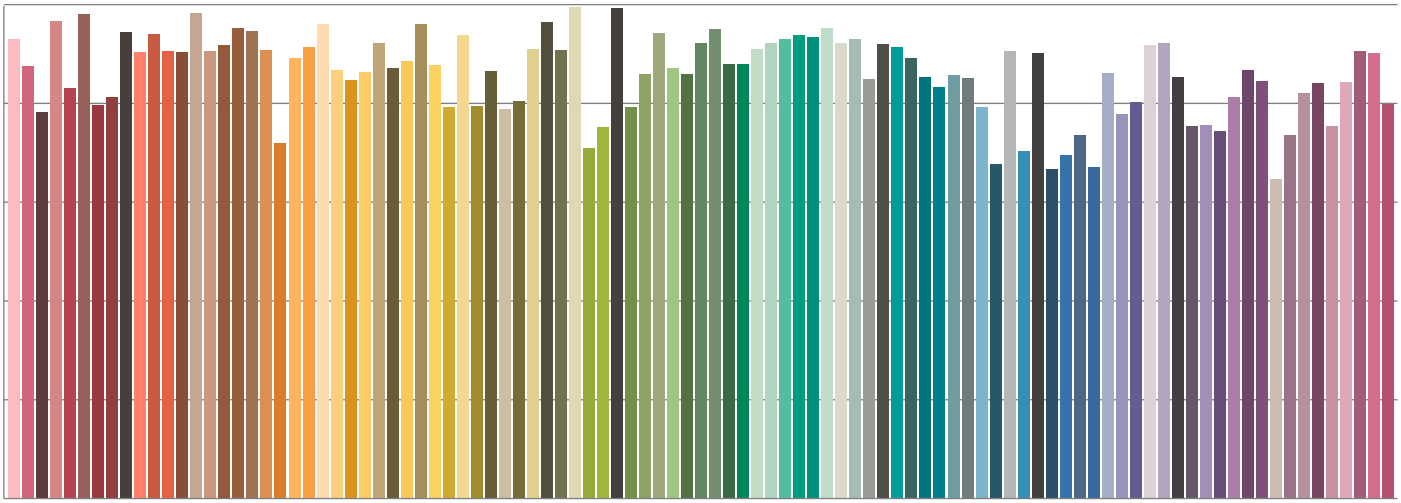
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



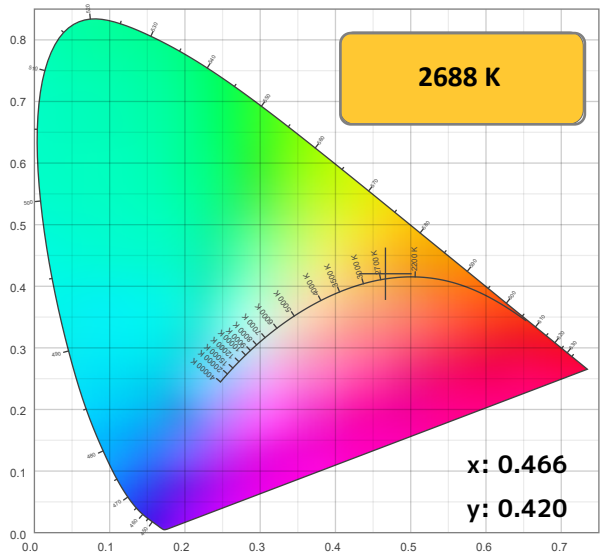
Measurement Date: 11/15/2023

Color Temperature: 2688K

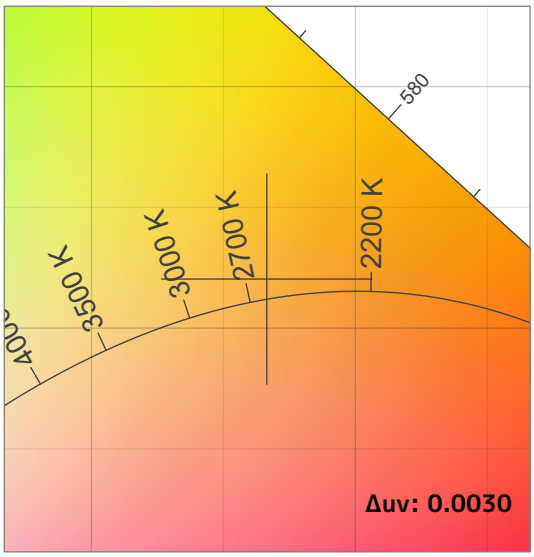
Accuracy Metric Overview

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 Locus	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	69.4	93.5	104.4	90	90.5	0.466	0.420	0.0030	65	13

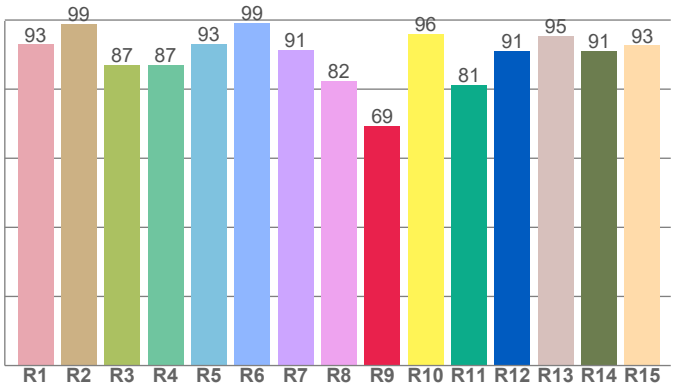
CIE 1931



CIE 1931 ZOOMED

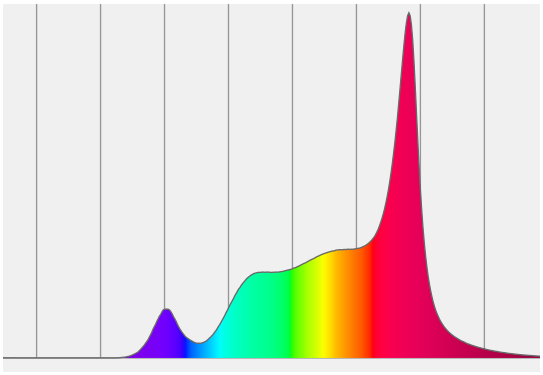


CRI: 91.5 (R1-R8)



Spectral Power Distribution (SPD)

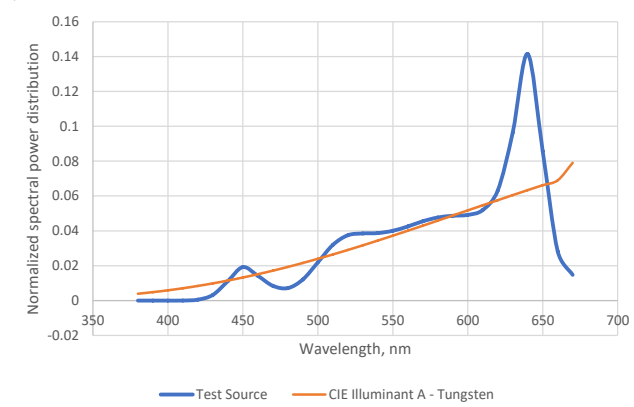
Dominant Wavelength 584 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 65

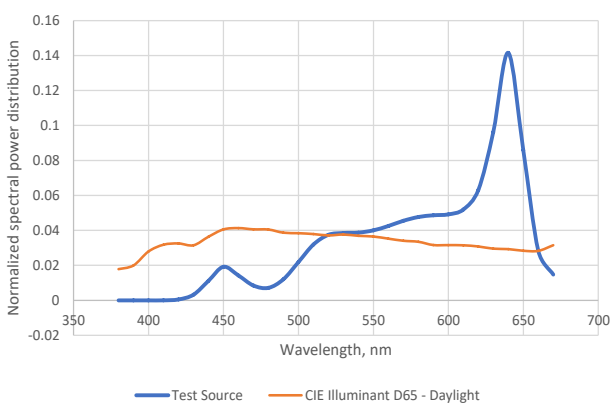
Spectral variance



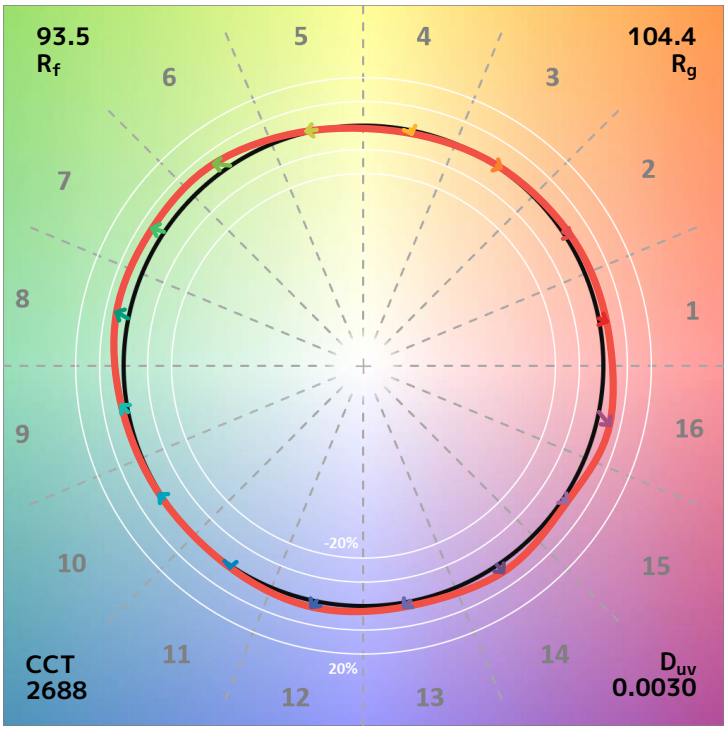
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 13

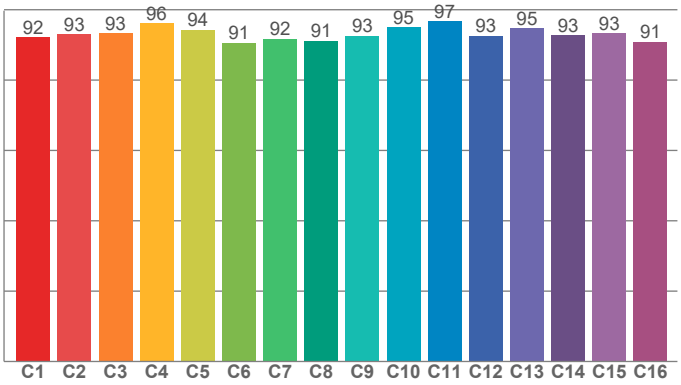
Spectral variance



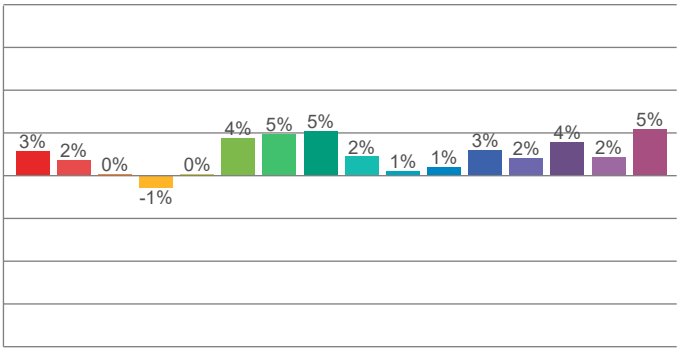
Measurement Date: 11/16/2023



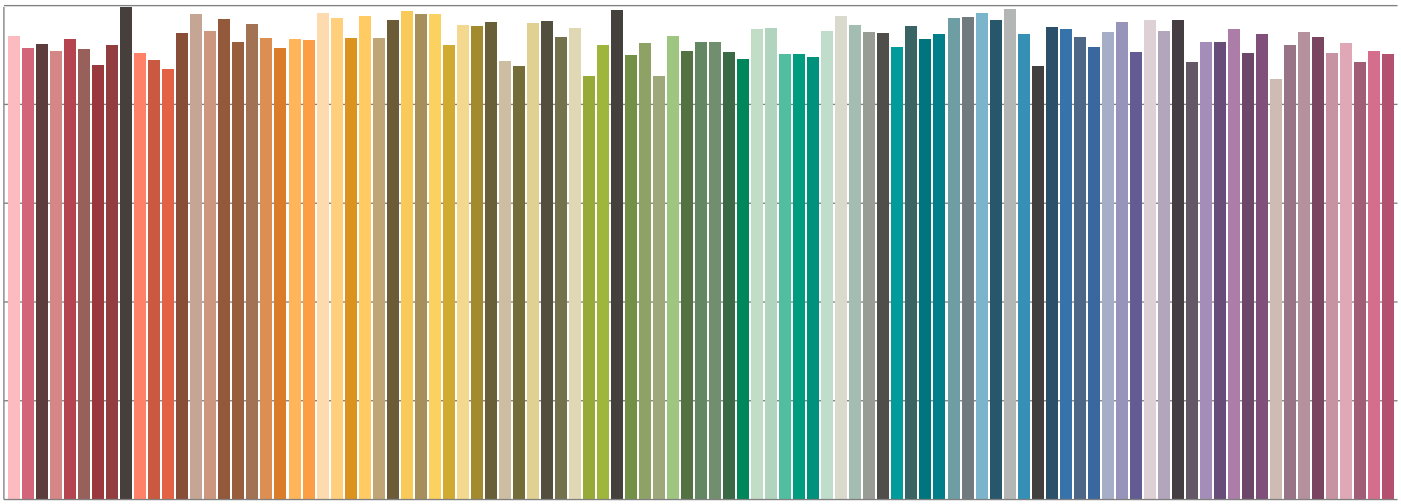
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



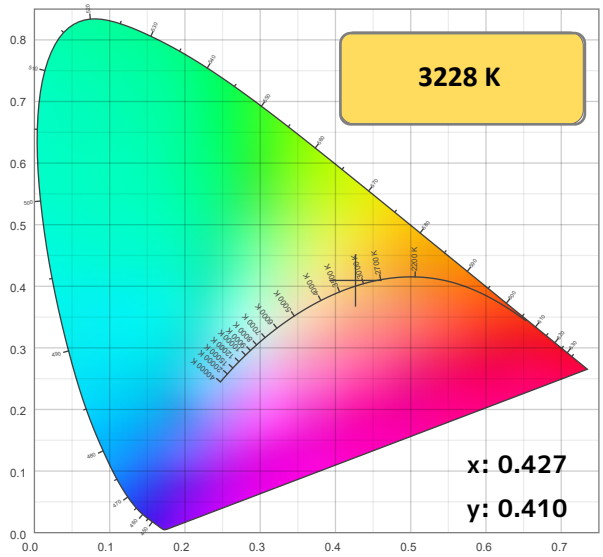
Measurement Date: 11/16/2023

Color Temperature: 3228K

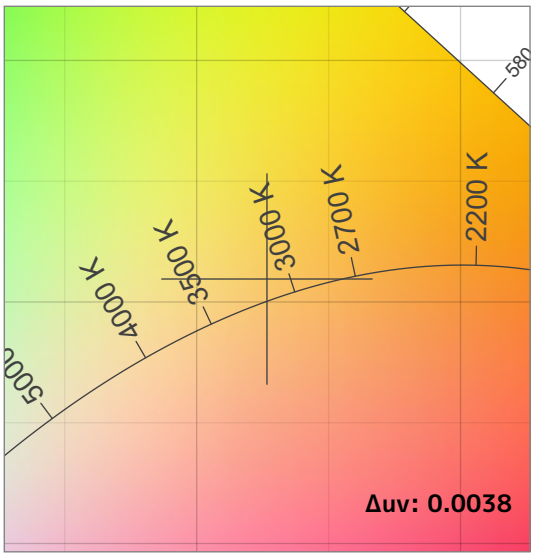
Accuracy Metric Overview

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 Locus	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	78.6	93.4	104.4	92	93.4	0.427	0.410	0.0038	69	29

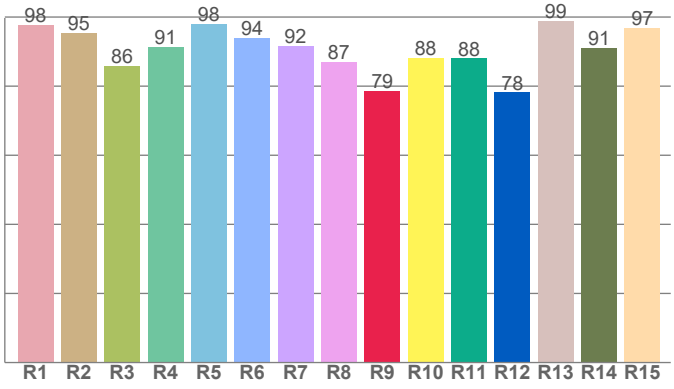
CIE 1931



CIE 1931 ZOOMED

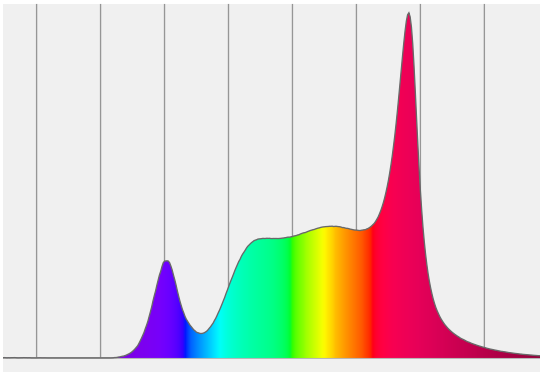


CRI: 92.6 (R1-R8)



Spectral Power Distribution (SPD)

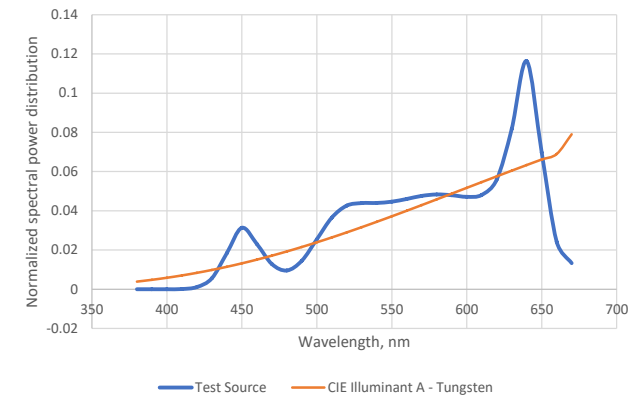
Dominant Wavelength 581 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 69

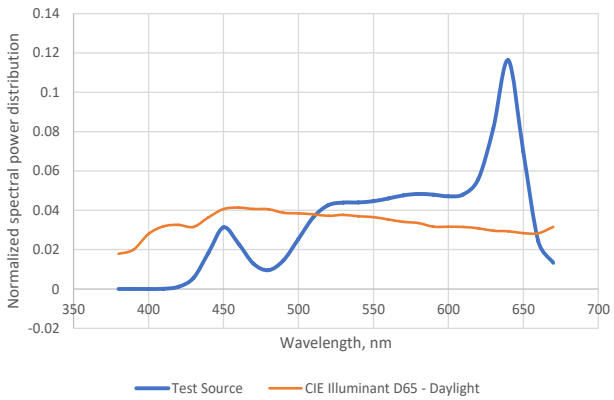
Spectral variance



SSI Spectral Variance Graph- Daylight

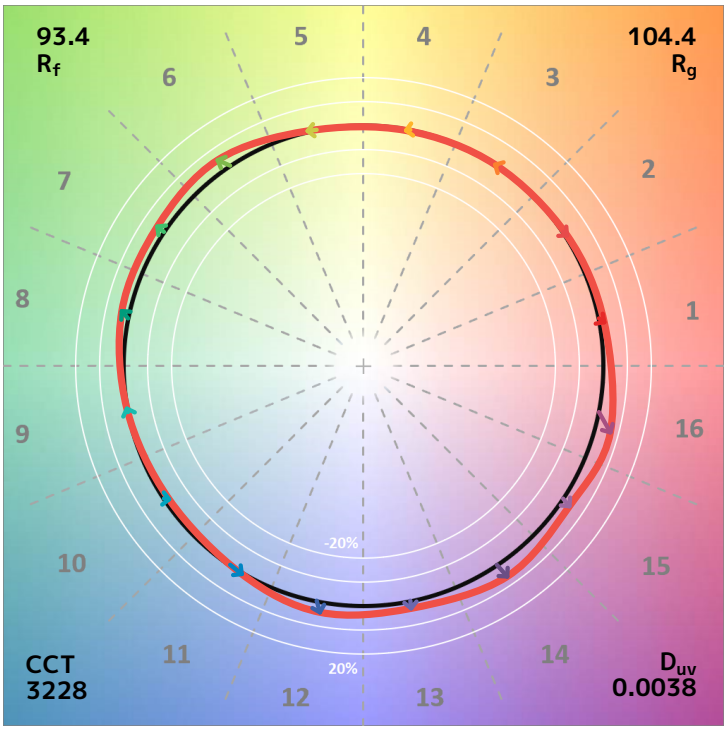
SSI [CIE D65] 29

Spectral variance

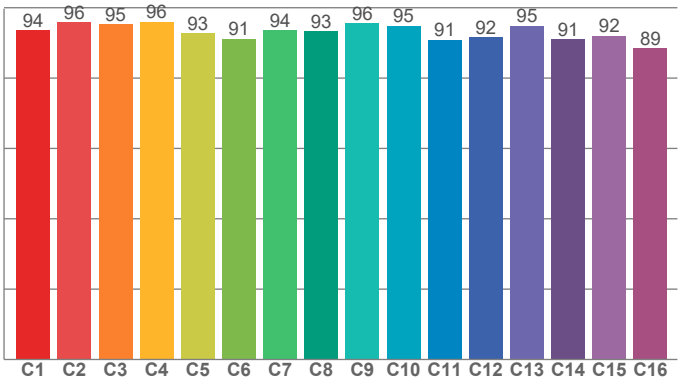


SSI [CIE D65] - Daylight **29**

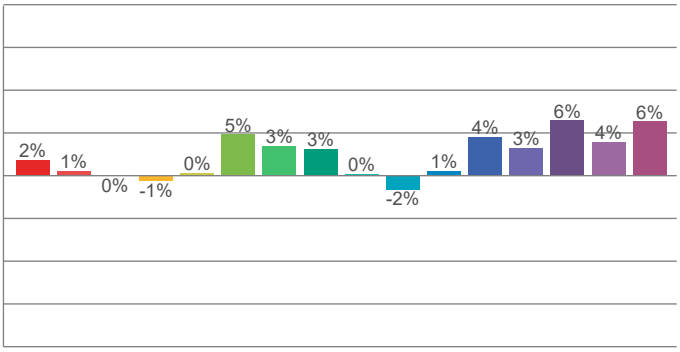
Measurement Date: 11/15/2023



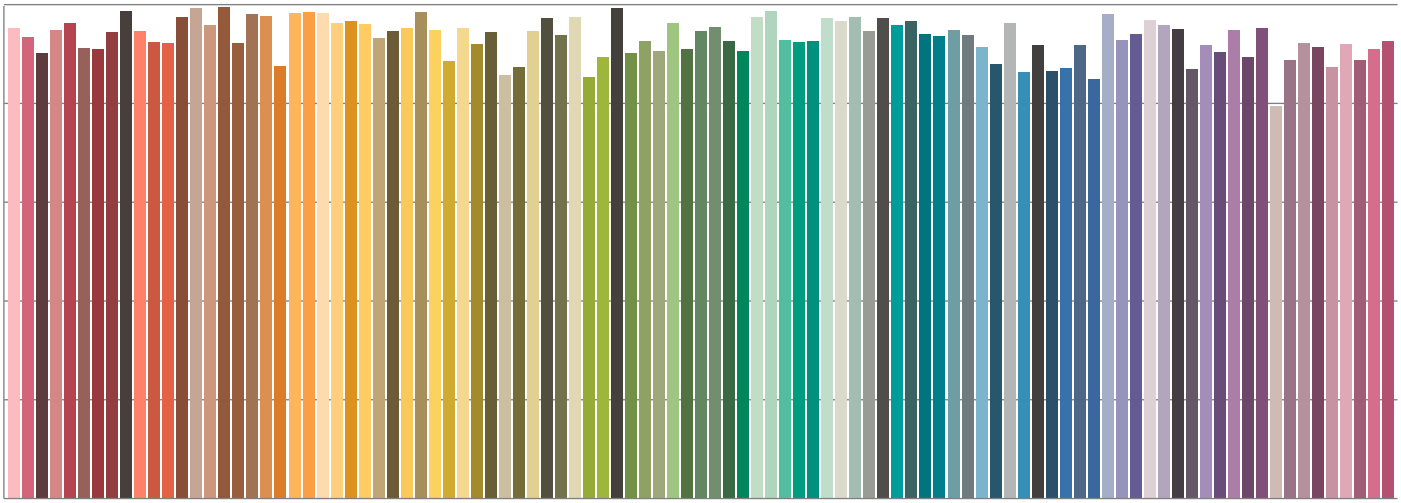
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



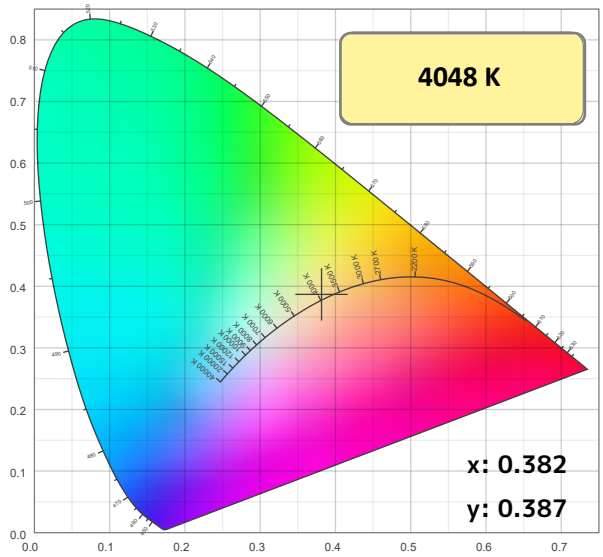
Measurement Date: 11/15/2023

Color Temperature: 4048K

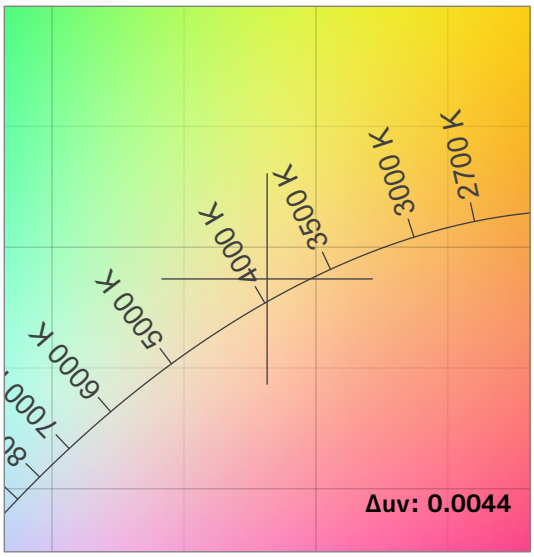
Accuracy Metric Overview

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 Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
92.5	94.4	91.8	103.2	91	93.7	0.382	0.387	0.0044	59	46

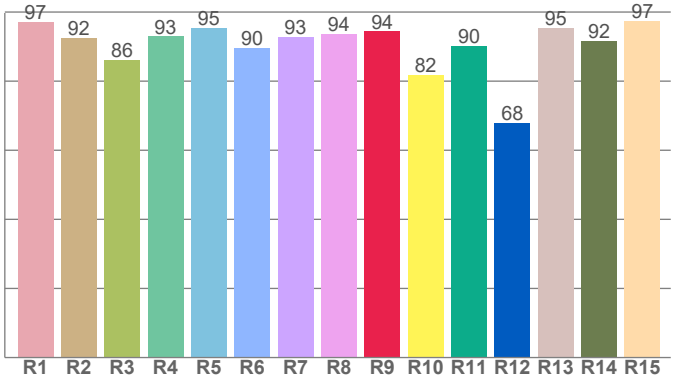
CIE 1931



CIE 1931 ZOOMED

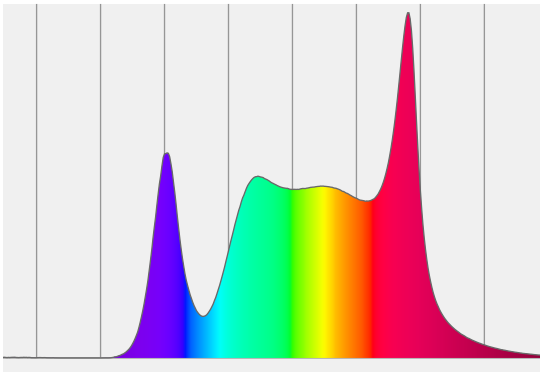


CRI: 92.5 (R1-R8)



Spectral Power Distribution (SPD)

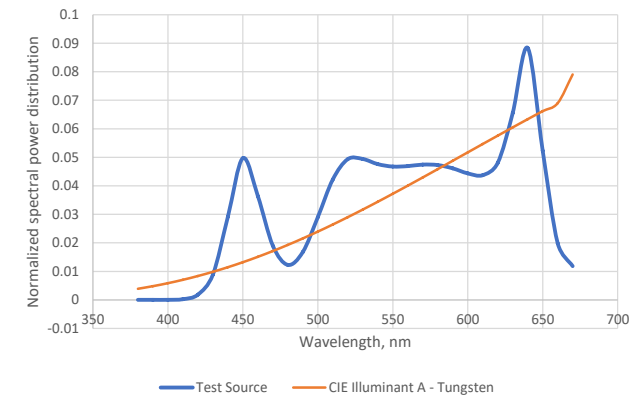
Dominant Wavelength 579 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 59

Spectral variance

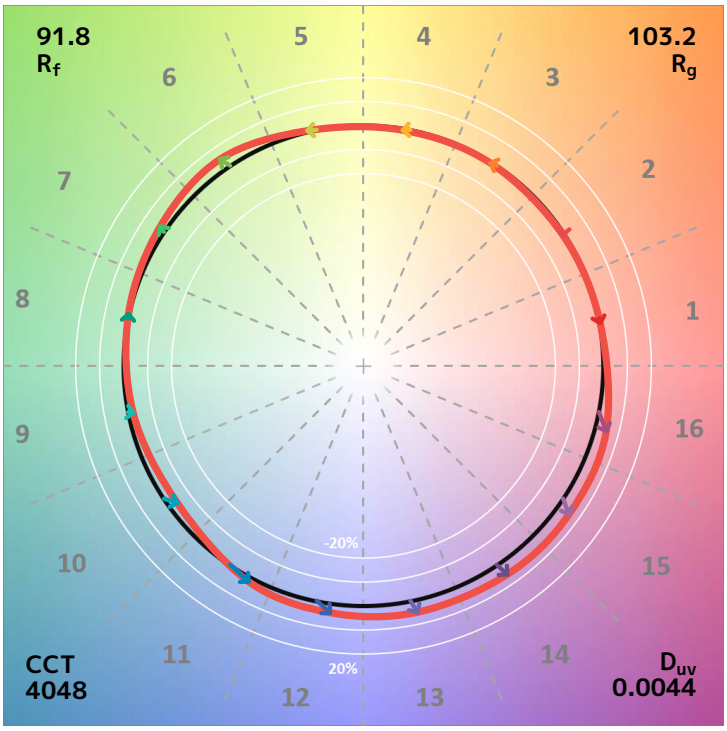


SSI Spectral Variance Graph- Daylight

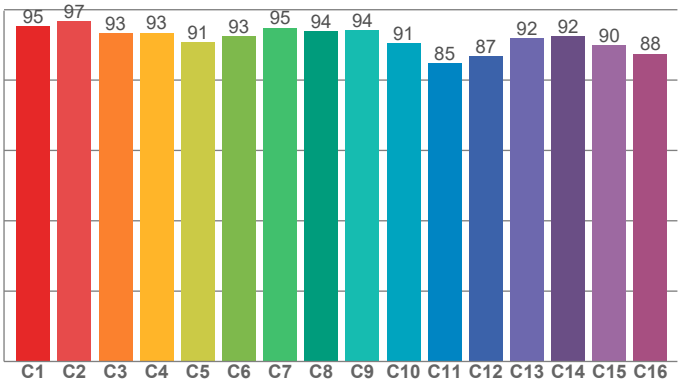
SSI [CIE D65] 46

Spectral variance

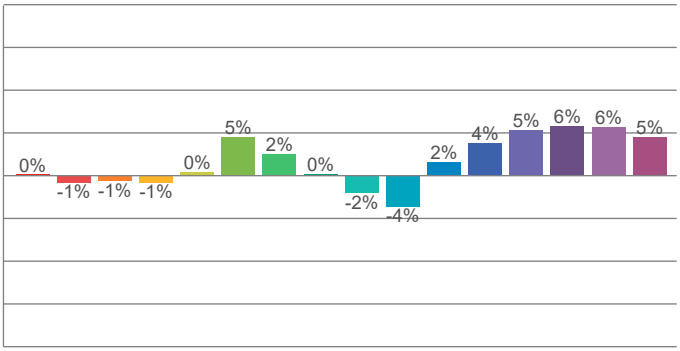
Measurement Date: 11/15/2023



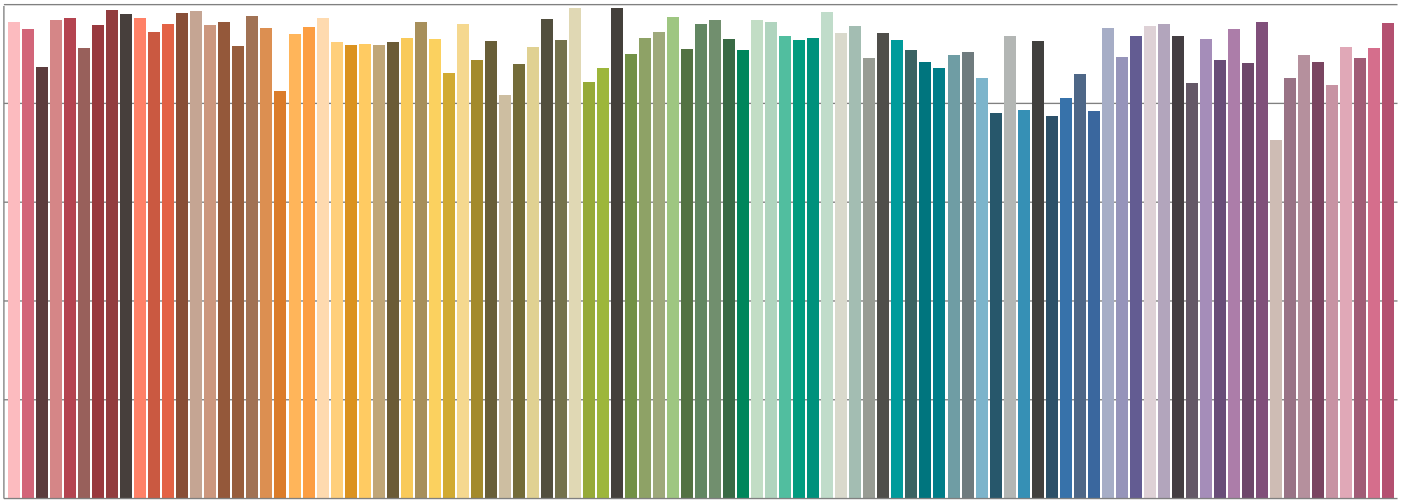
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



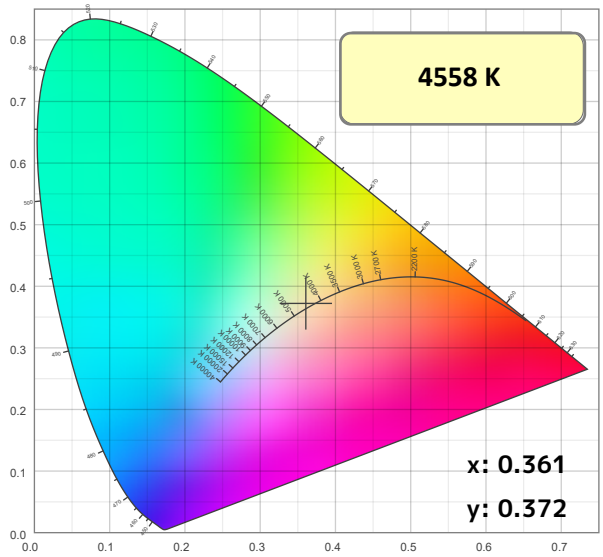
Measurement Date: 11/15/2023

Color Temperature: 4558K

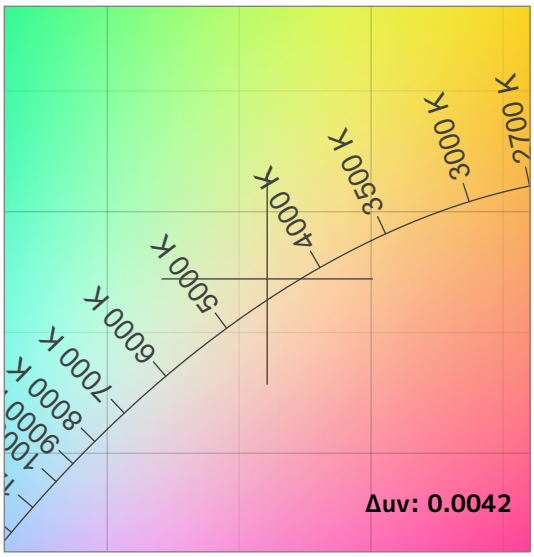
Accuracy Metric Overview

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 Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
92.3	98.0	90.8	103.5	91	93.1	0.361	0.372	0.0042	50	52

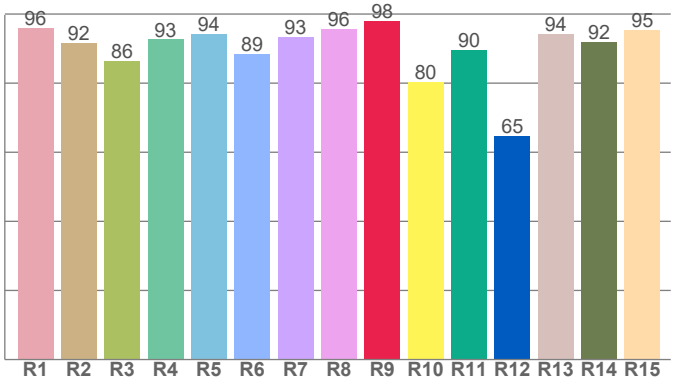
CIE 1931



CIE 1931 ZOOMED

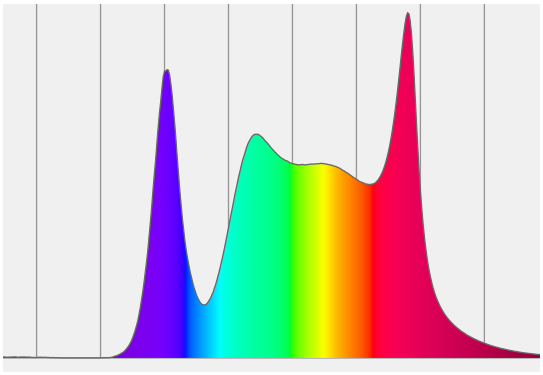


CRI: 92.3 (R1-R8)



Spectral Power Distribution (SPD)

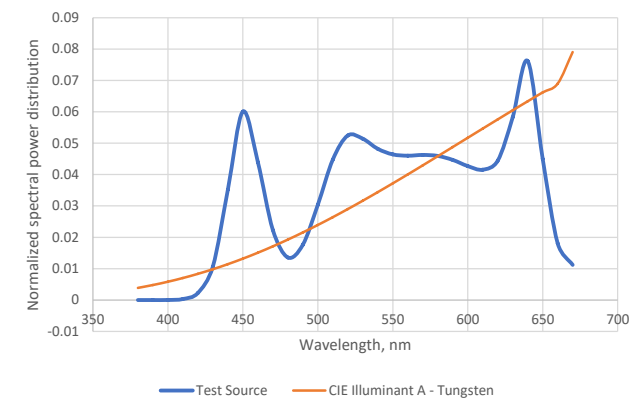
Dominant Wavelength 578 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 50

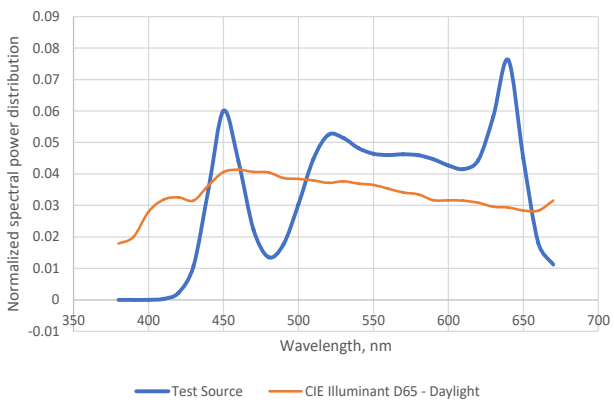
Spectral variance



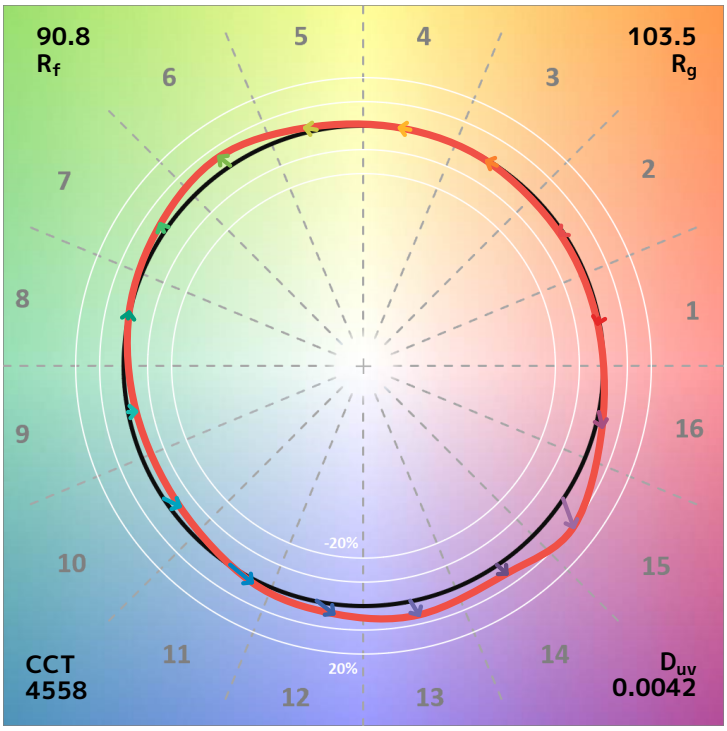
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 52

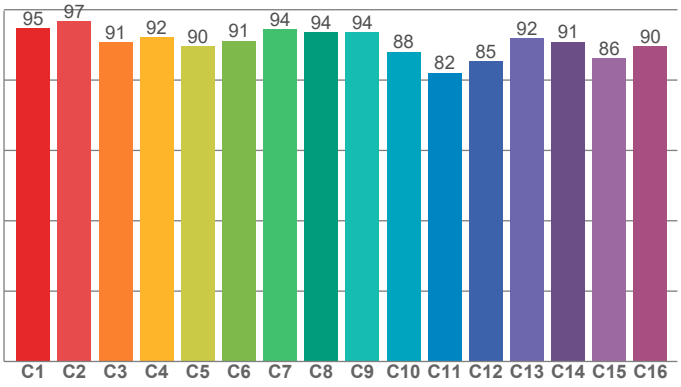
Spectral variance



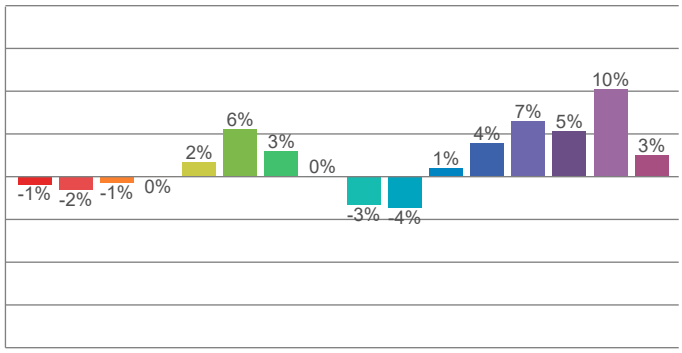
Measurement Date: 11/15/2023



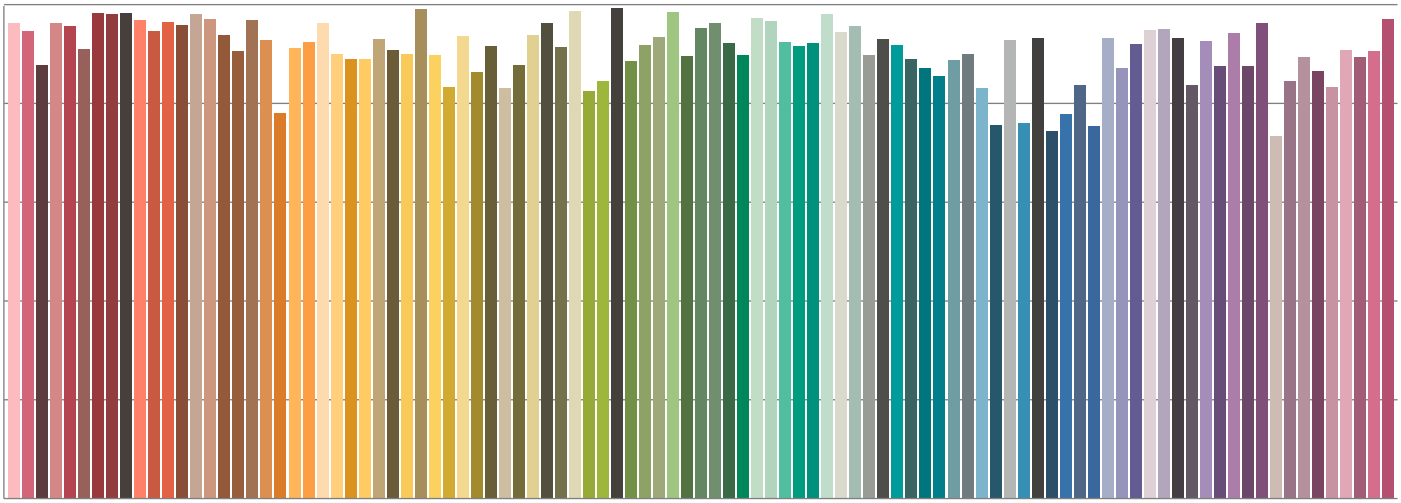
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



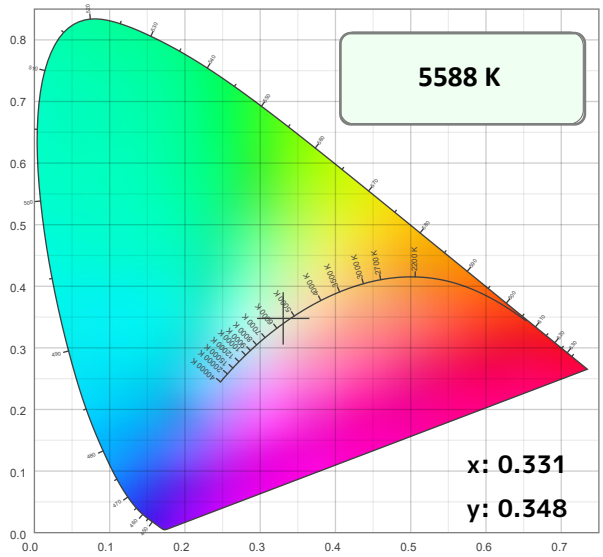
Measurement Date: 11/15/2023

Color Temperature: 5588K

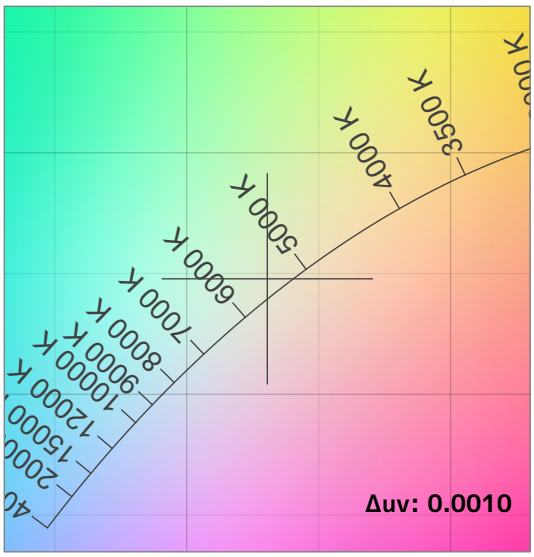
Accuracy Metric Overview

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 Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
91.8	98.9	90.3	104.1	92	92.2	0.331	0.348	0.0010	35	56

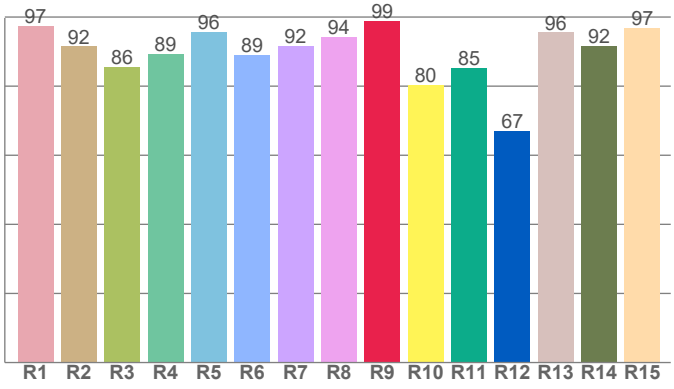
CIE 1931



CIE 1931 ZOOMED

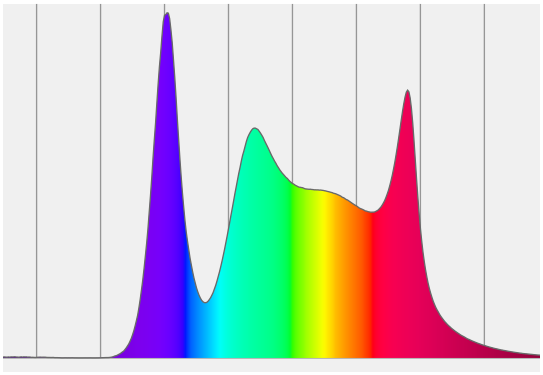


CRI: 91.8 (R1-R8)



Spectral Power Distribution (SPD)

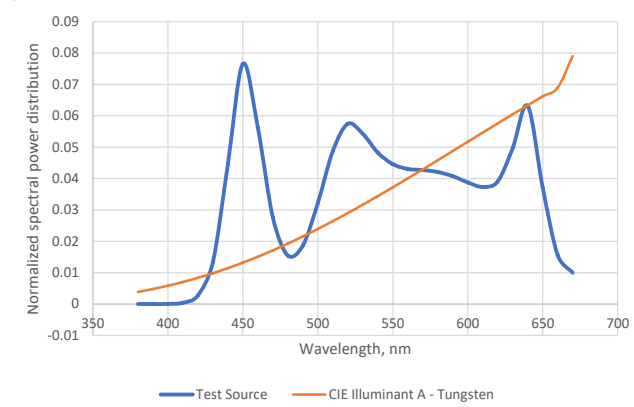
Dominant Wavelength 576 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 35

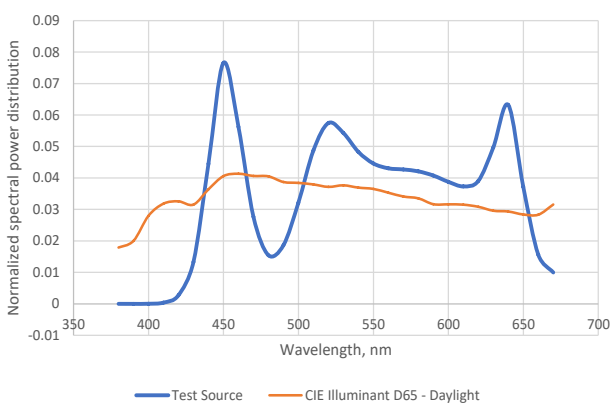
Spectral variance



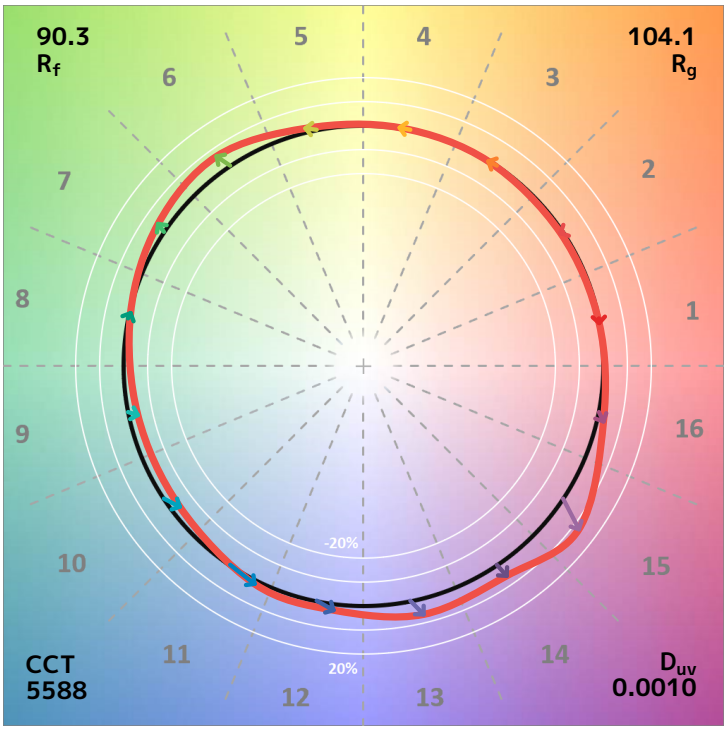
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 56

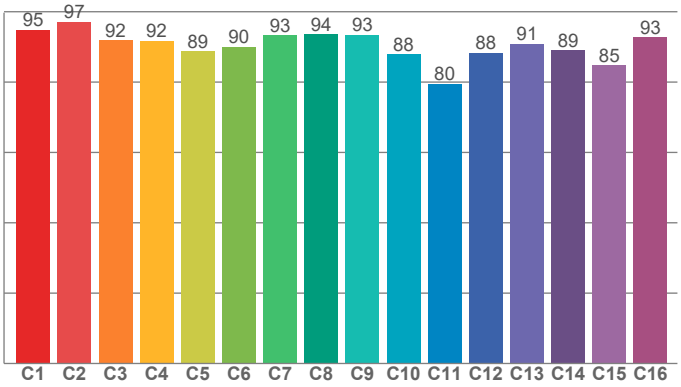
Spectral variance



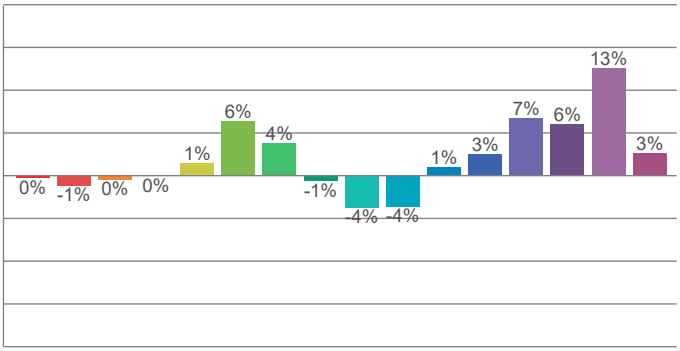
Measurement Date: 11/15/2023



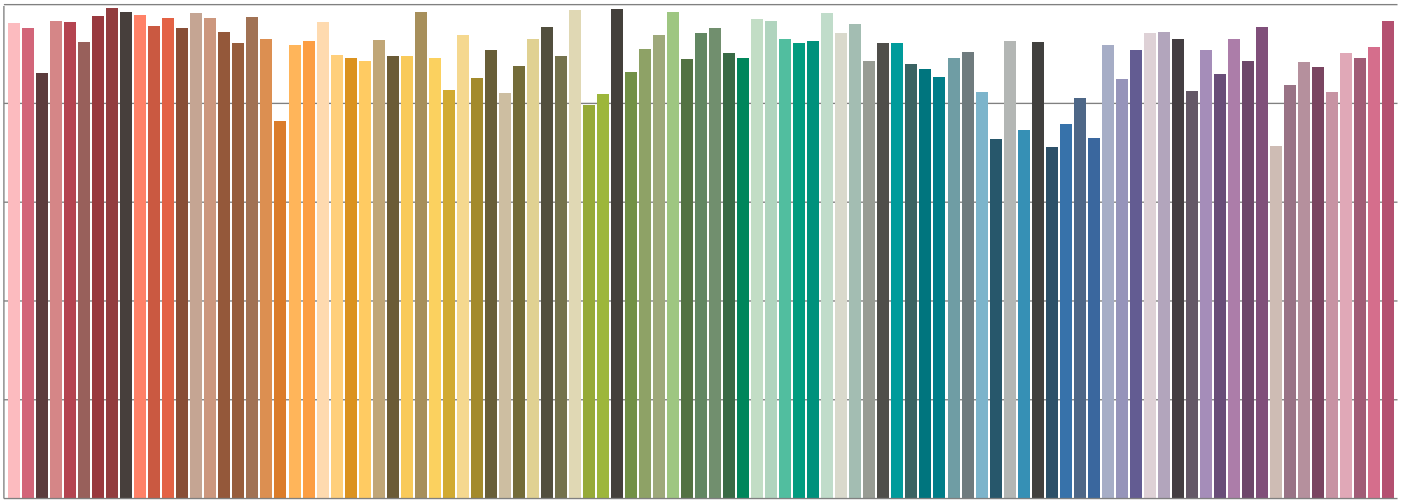
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



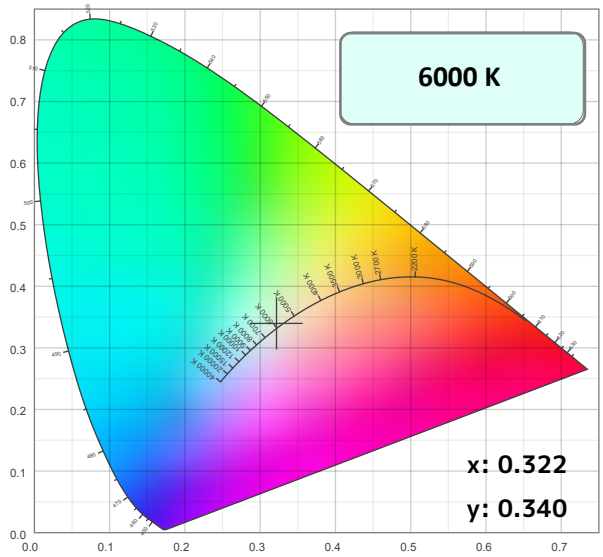
Measurement Date: 11/15/2023

Color Temperature: 6000K

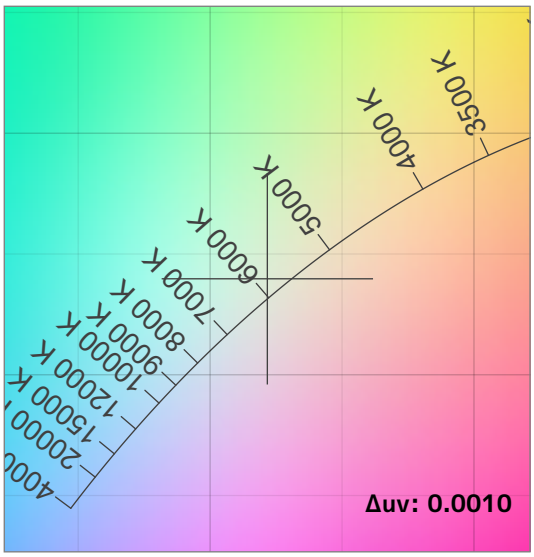
Accuracy Metric Overview

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 Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
91.6	95.5	89.9	103.6	92	91.9	0.322	0.340	0.0010	30	57

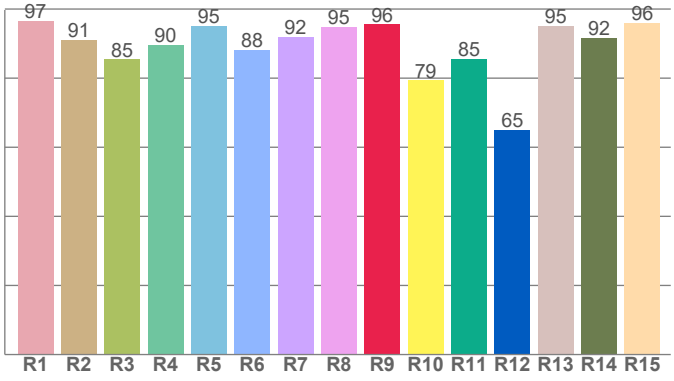
CIE 1931



CIE 1931 ZOOMED

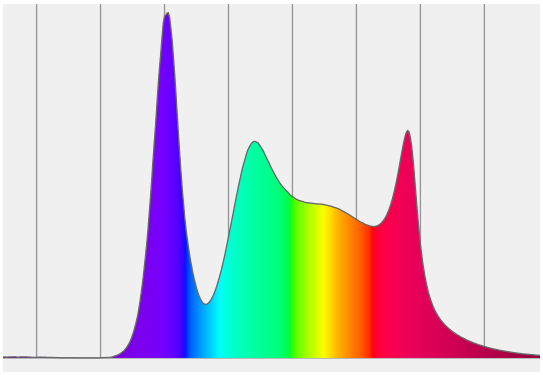


CRI: 91.6 (R1-R8)



Spectral Power Distribution (SPD)

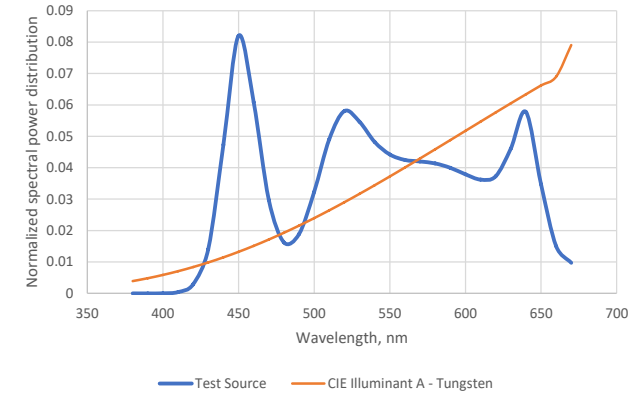
Dominant Wavelength 575 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 30

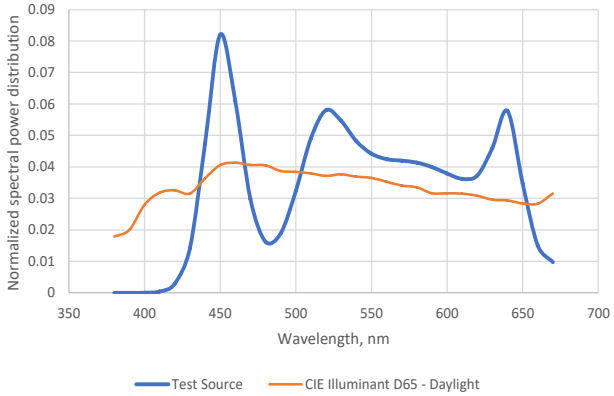
Spectral variance



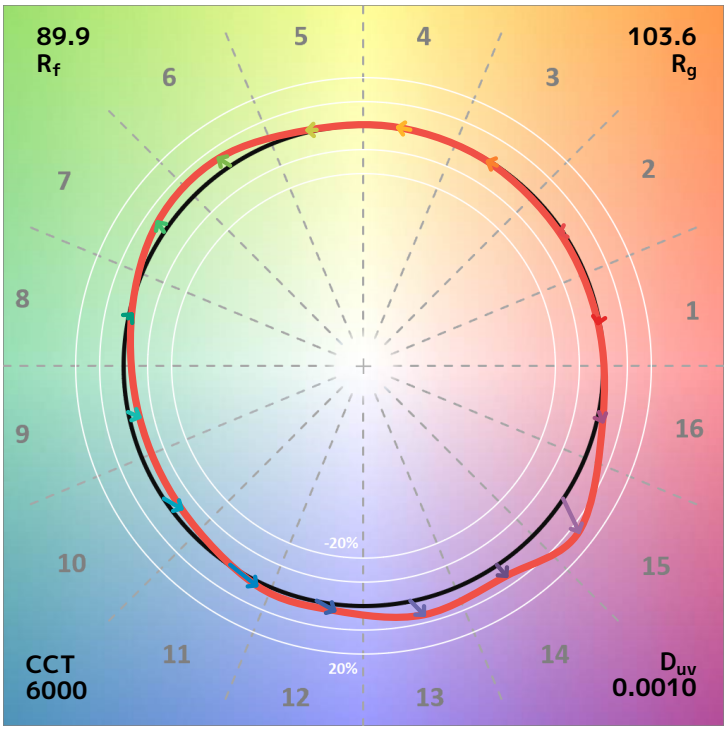
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 57

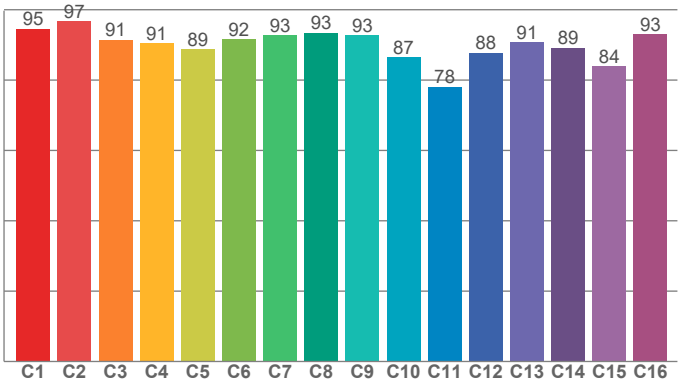
Spectral variance



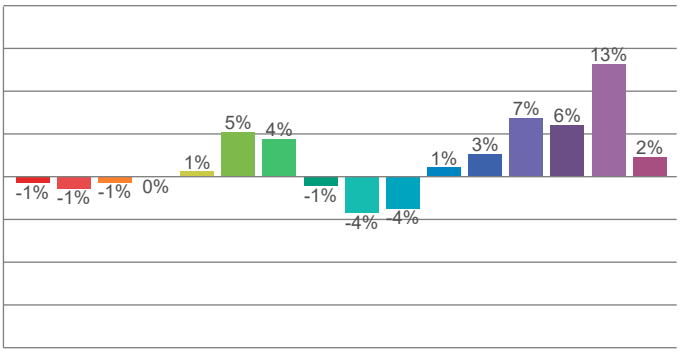
Measurement Date: 11/15/2023



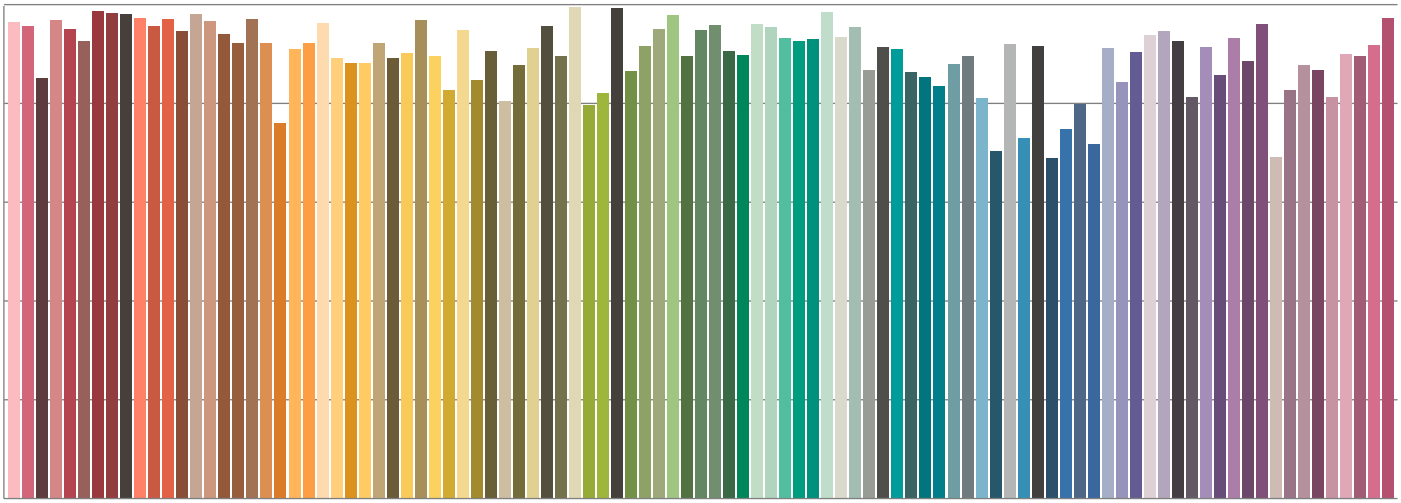
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



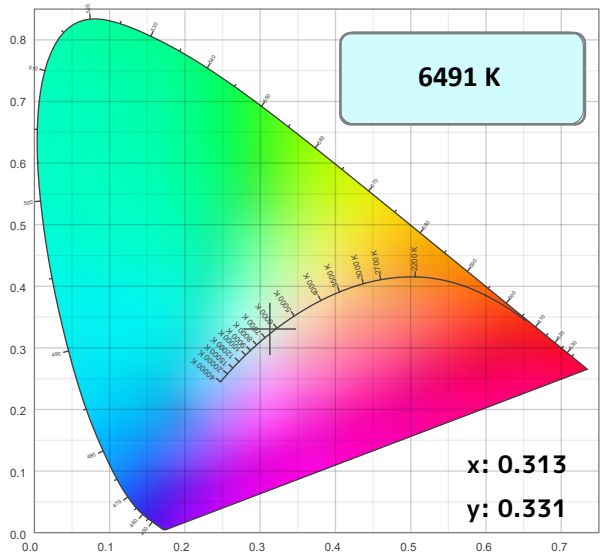
Measurement Date: 11/15/2023

Color Temperature: 6491K

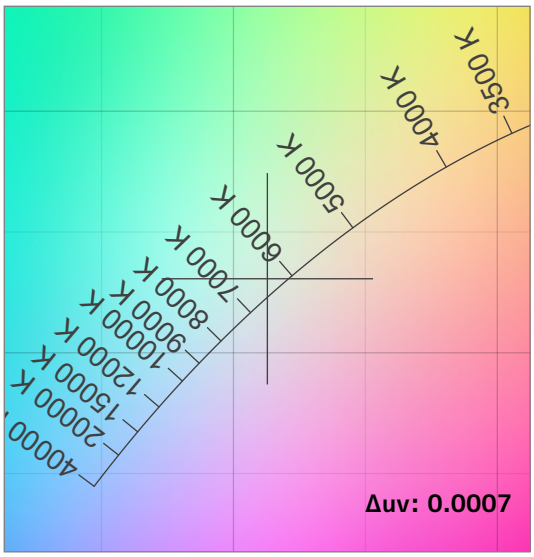
Accuracy Metric Overview

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 Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
91.0	85.0	89.0	102.6	92	90.8	0.313	0.331	0.0007	24	57

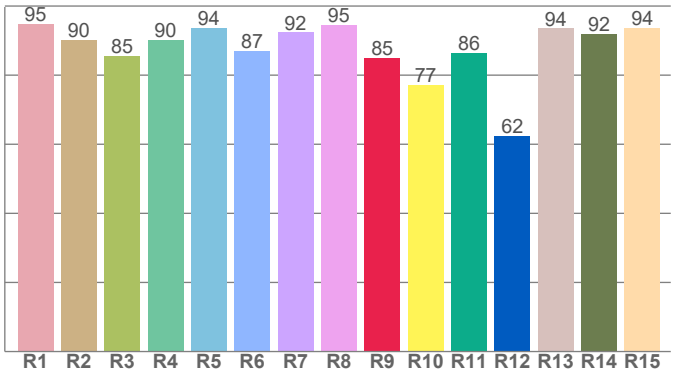
CIE 1931



CIE 1931 ZOOMED

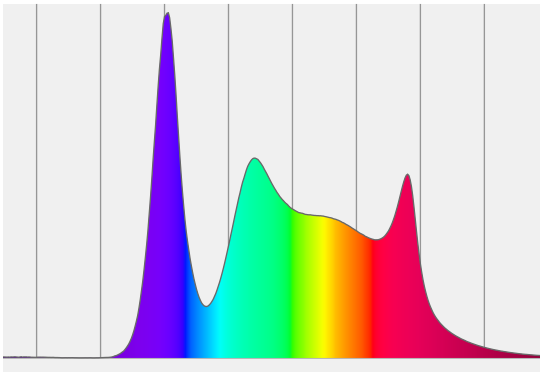


CRI: 91.0 (R1-R8)



Spectral Power Distribution (SPD)

Dominant Wavelength 555 nm



SSI Spectral Variance Graph- Tungsten

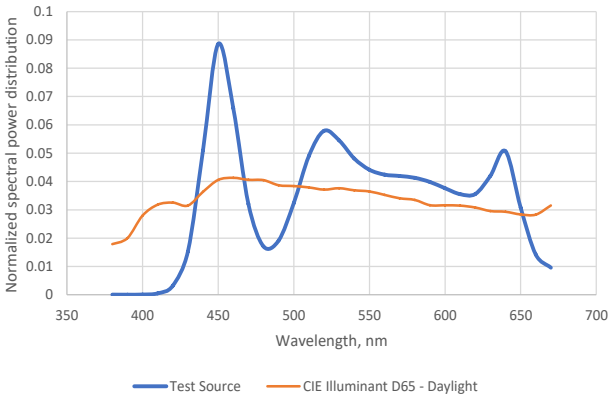
SSI [CIE A] 24

Spectral variance

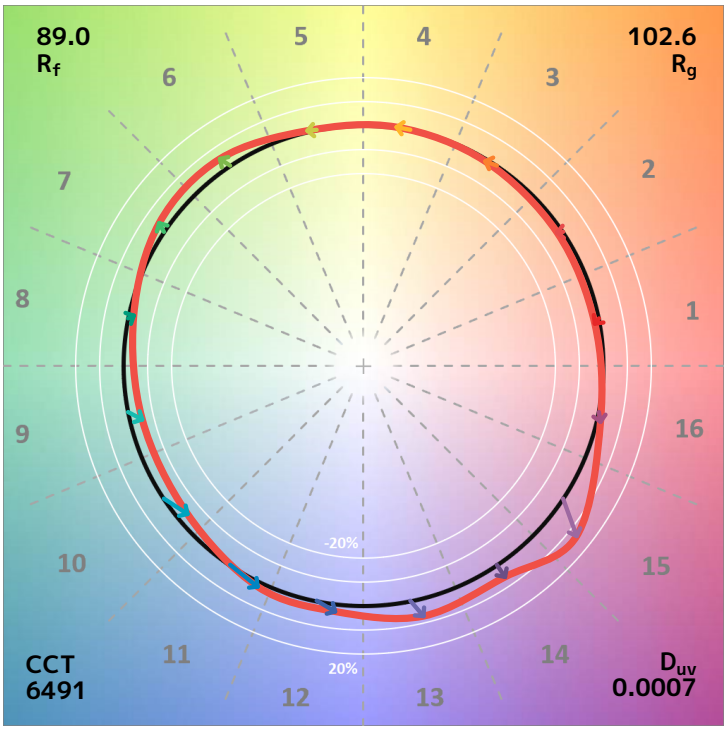
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 57

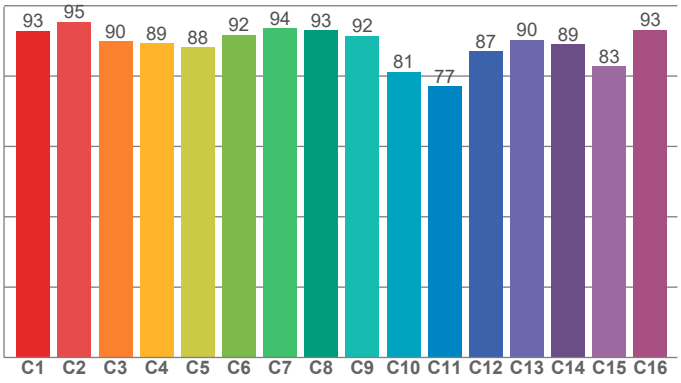
Spectral variance



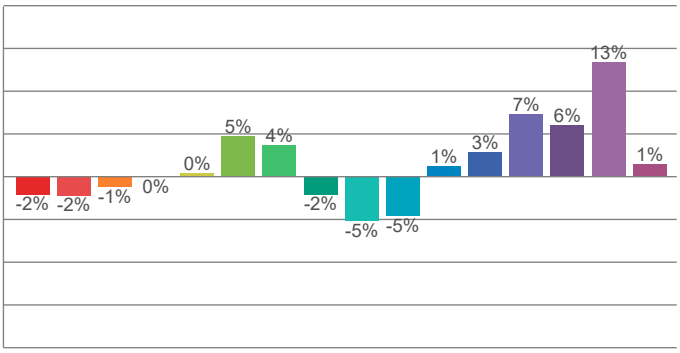
Measurement Date: 11/15/2023



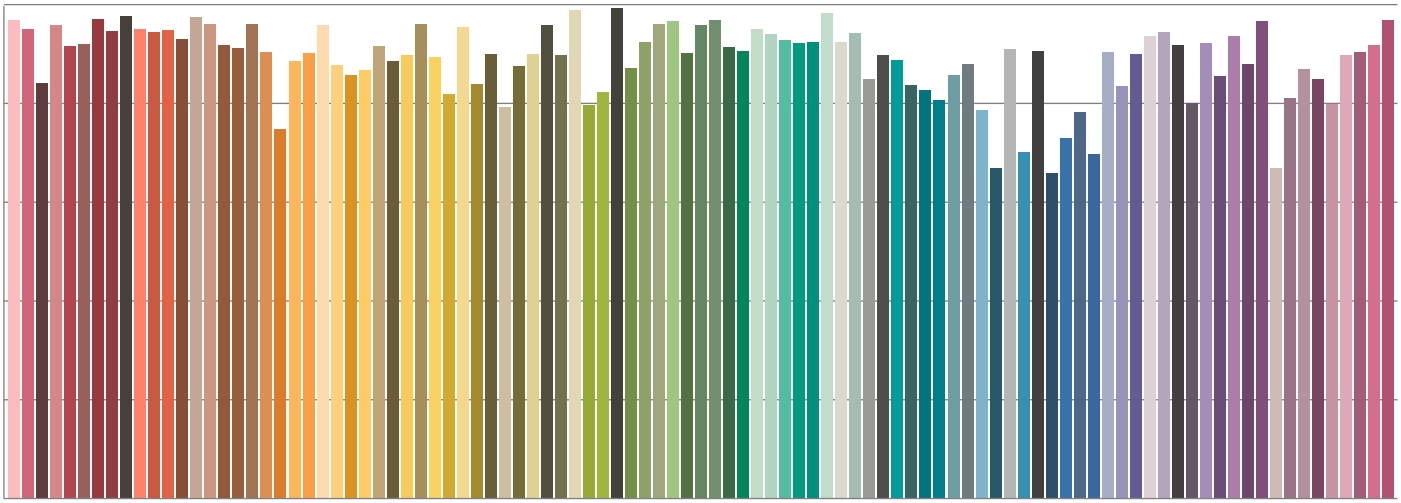
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



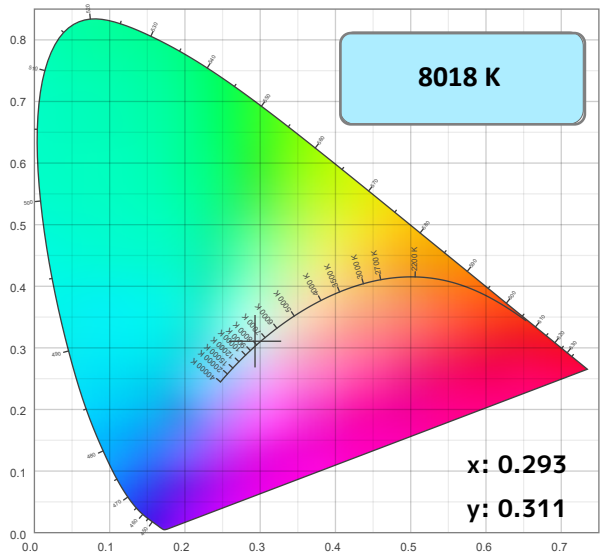
Measurement Date: 11/15/2023

Color Temperature: 8018K

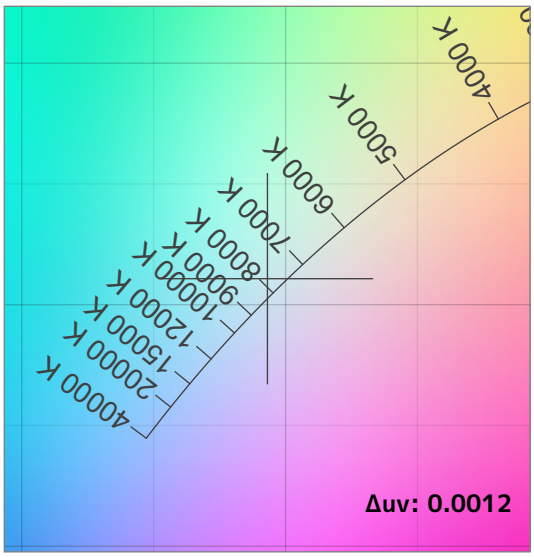
Accuracy Metric Overview

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 Locus	SSI [CIE A] Tungsten	SSI [CIE D65] Daylight
CRI	CRI R9	TM30 R_f	TM30 R_g	TLCI	CQS	x	Y	Δuv	SSIt	SSId
90.0	83.0	87.8	100.9	91	89.7	0.293	0.311	0.0012	11	54

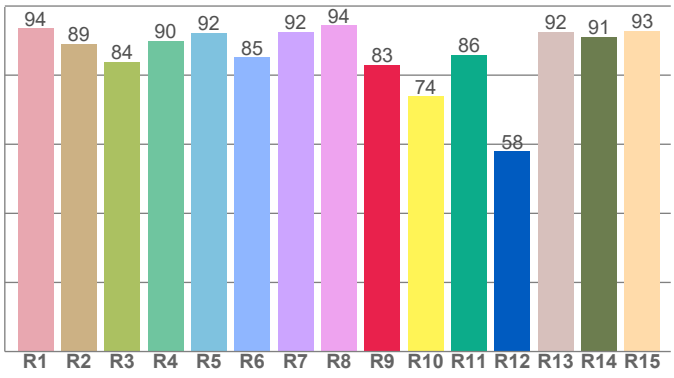
CIE 1931



CIE 1931 ZOOMED

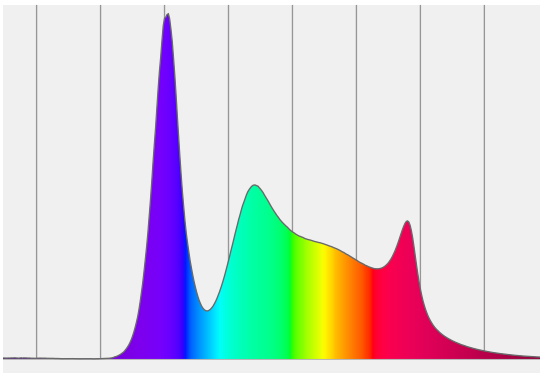


CRI: 90.0 (R1-R8)



Spectral Power Distribution (SPD)

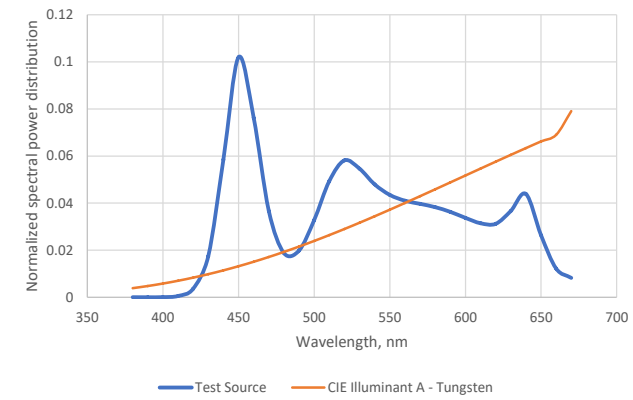
Dominant Wavelength 479 nm



SSI Spectral Variance Graph- Tungsten

SSI [CIE A] 11

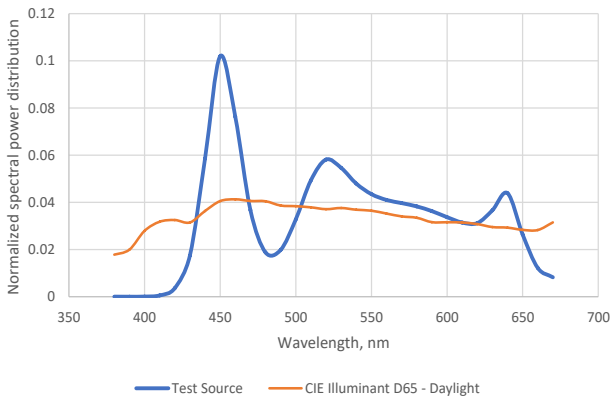
Spectral variance



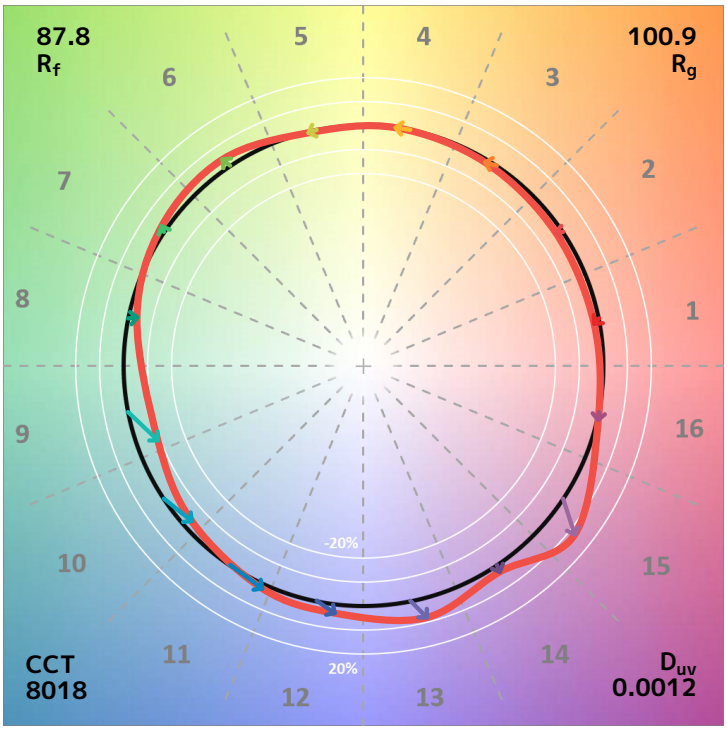
SSI Spectral Variance Graph- Daylight

SSI [CIE D65] 54

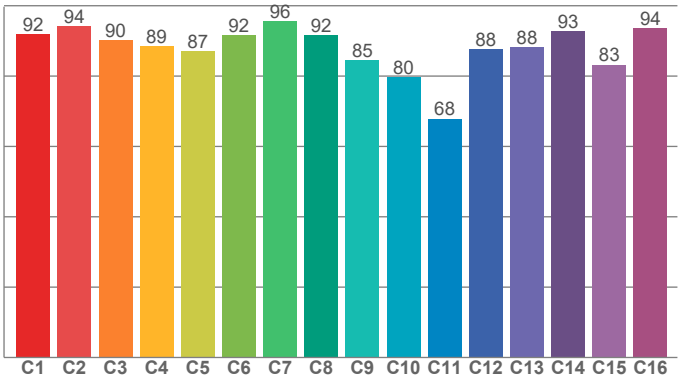
Spectral variance



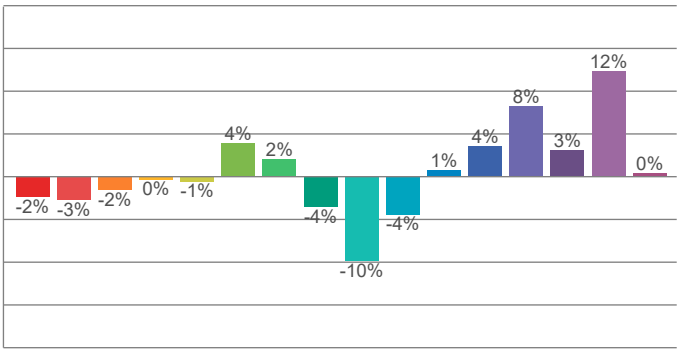
Measurement Date: 11/15/2023



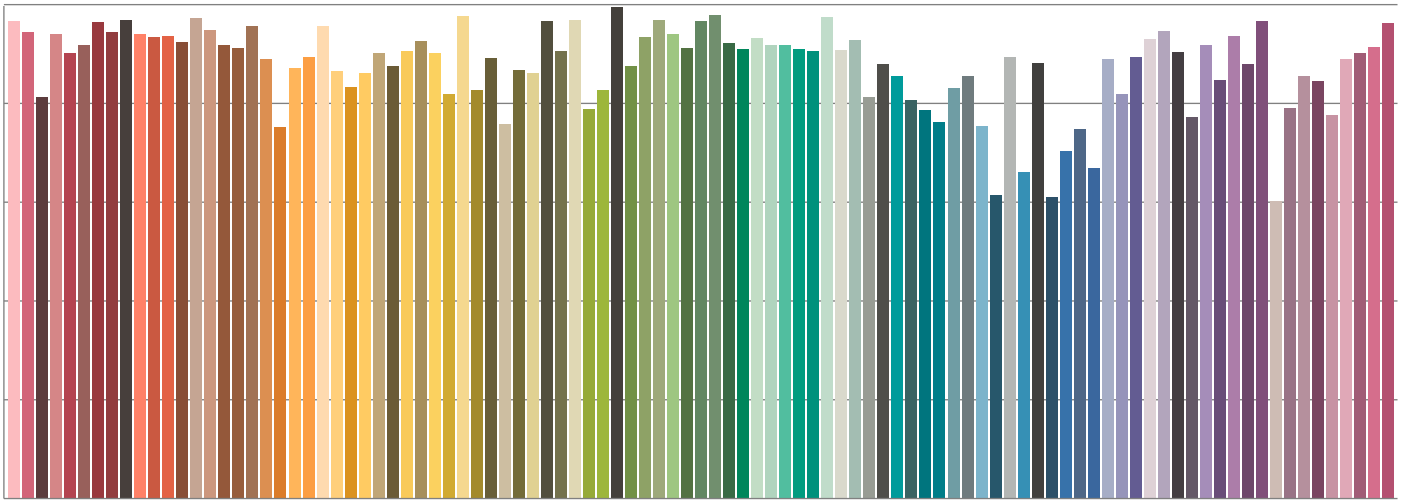
TM30-18 R_f Values per Hue Bin



TM30 Chroma Shift per Hue Bin



TM30-18 R_f Values per Reference Color (CES)



Measurement Date: 11/15/2023

Measurements

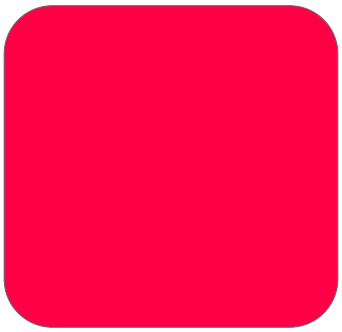
Total Lumen Output: 974 lm

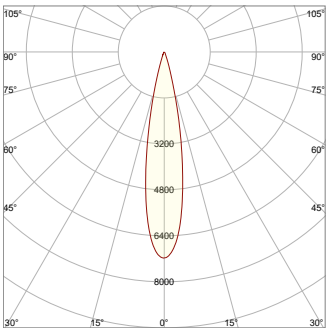
Peak Intensity: 7147 cd

Efficacy: 16 Lumen/Watt

Power: 62.5 W

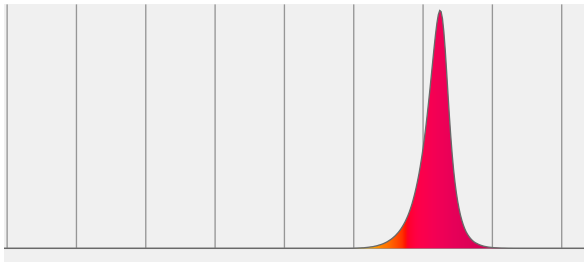
Voltage: 118 V, Current: 0.630 A

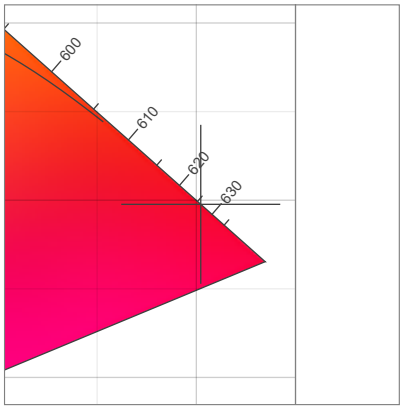




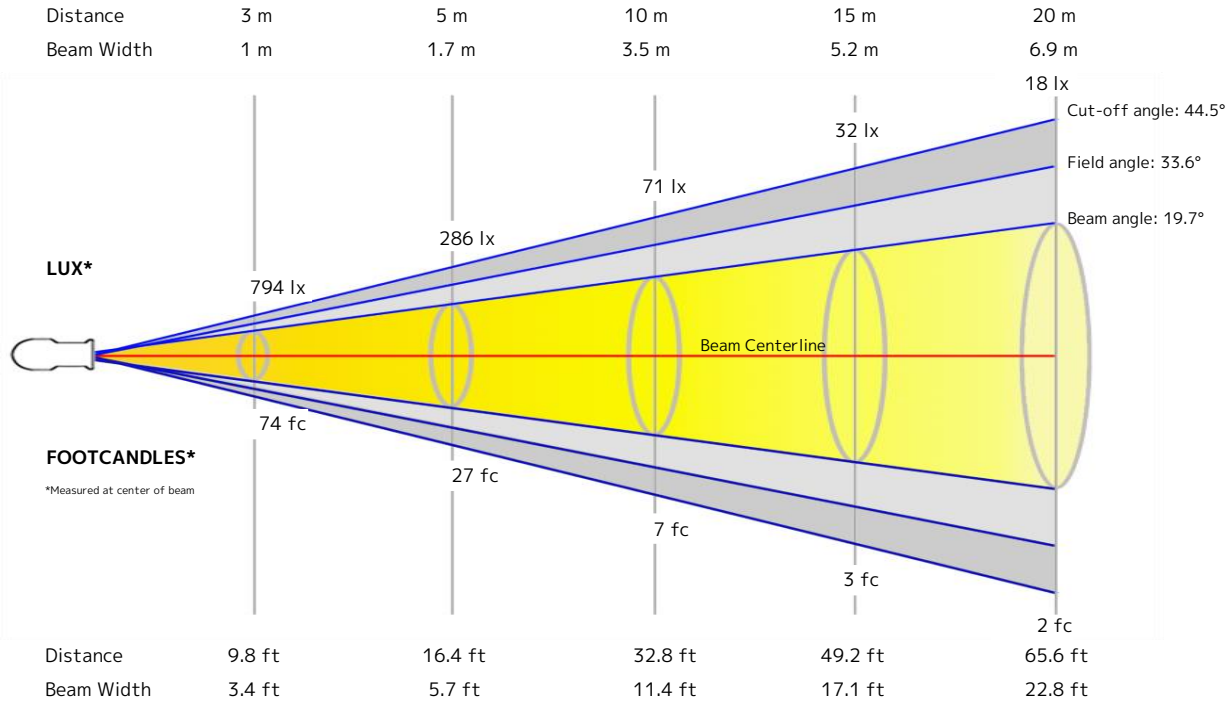
Spectral Power Distribution

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	0.544	0.346



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	7147	1787	794	447	286	199	146	112	88	71	59	50	42	36	32	28	25	22	20	18
FC	663.9	166	73.8	41.5	26.6	18.4	13.5	10.4	8.2	6.6	5.5	4.6	3.9	3.4	3	2.6	2.3	2	1.8	1.7

Measurement Date: 11/16/2023

Measurements

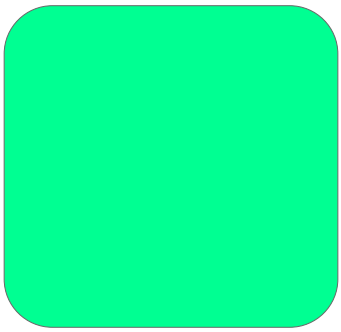
Total Lumen Output: 1480 lm

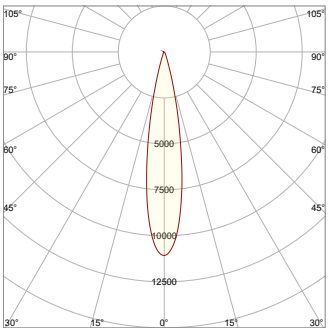
Peak Intensity: 11056 cd

Efficacy: 24 Lumen/Watt

Power: 62.2 W

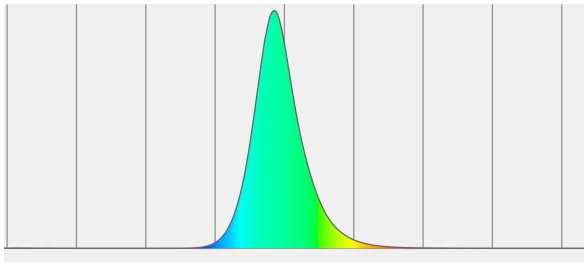
Voltage: 119 V, Current: 0.627 A

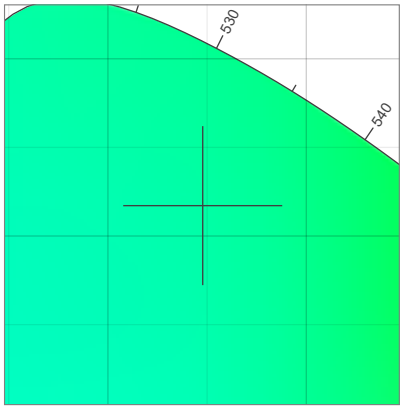




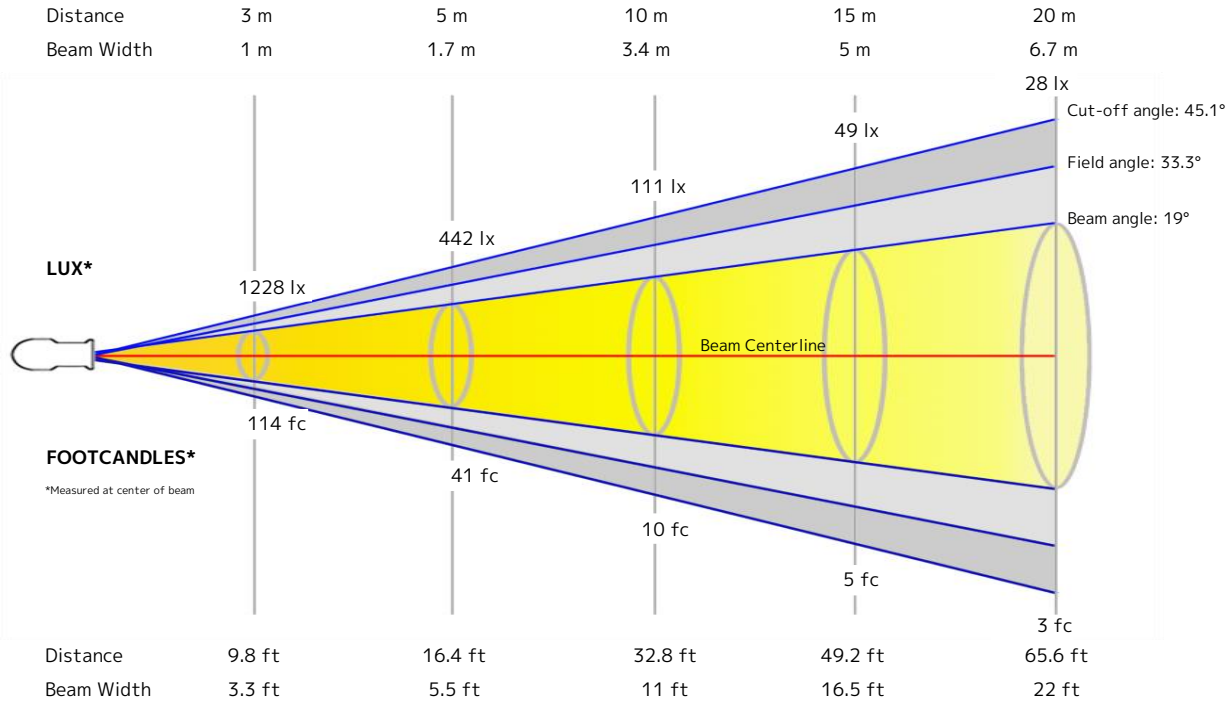
Spectral Power Distribution

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	0.148	0.717	0.052	0.380



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	11056	2764	1228	691	442	307	226	173	136	111	91	77	65	56	49	43	38	34	31	28
FC	1027.2	256.8	114.1	64.2	41.1	28.5	21	16	12.7	10.3	8.5	7.1	6.1	5.2	4.6	4	3.6	3.2	2.8	2.6

Measurement Date: 11/16/2023

Measurements

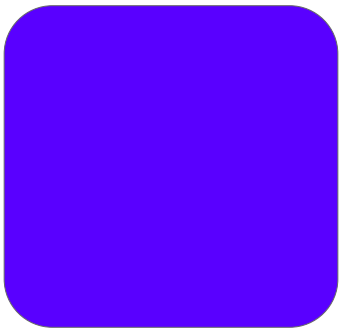
Total Lumen Output: 438 lm

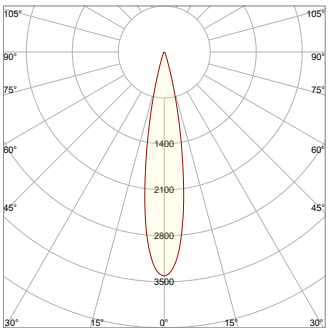
Peak Intensity: 3409 cd

Efficacy: 5 Lumen/Watt

Power: 88.0 W

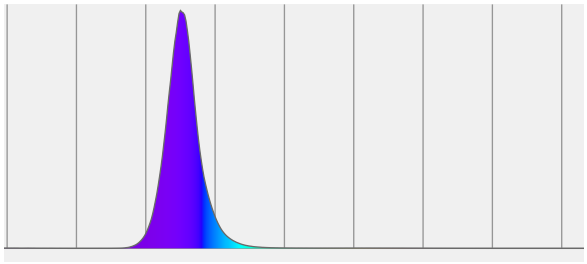
Voltage: 118 V, Current: 0.808 A

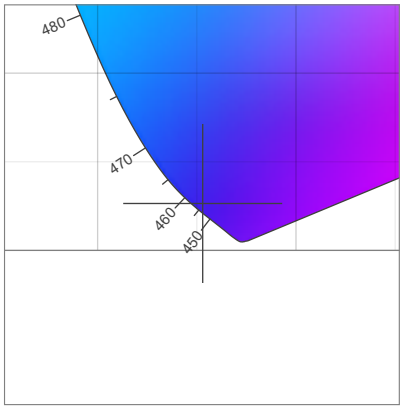




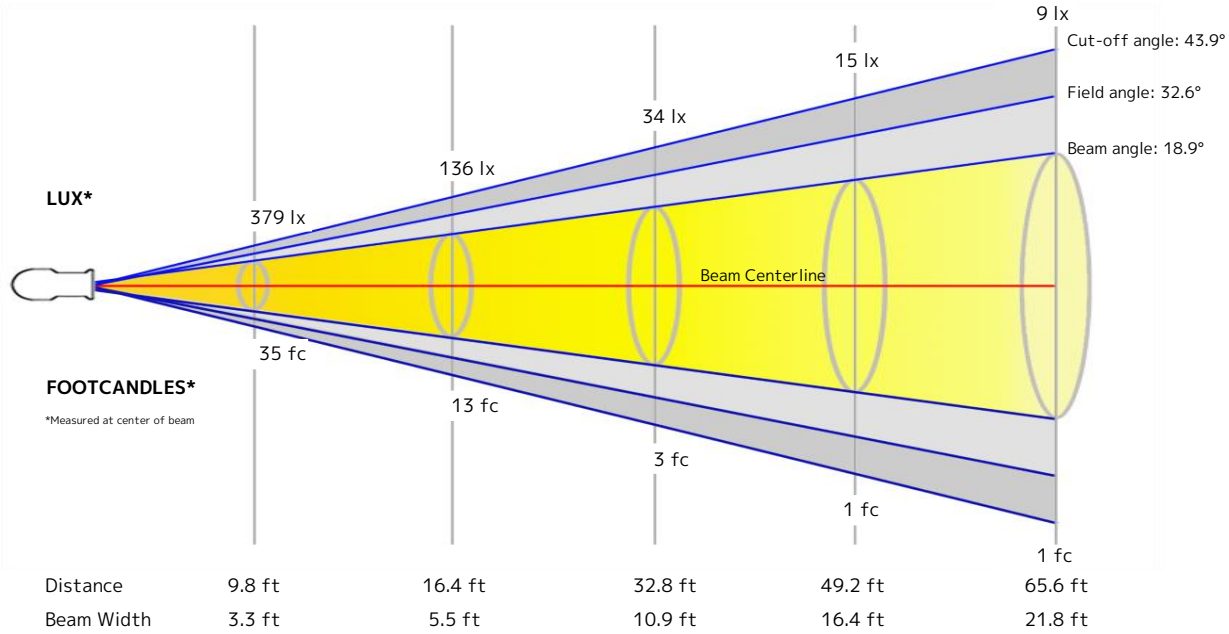
Spectral Power Distribution

Dominant Wavelength 455 nm





Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
455	0.153	0.026	0.203	0.053



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	3409	852	379	213	136	95	70	53	42	34	28	24	20	17	15	13	12	11	9	9
FC	316.7	79.2	35.2	19.8	12.7	8.8	6.5	4.9	3.9	3.2	2.6	2.2	1.9	1.6	1.4	1.2	1.1	1	0.9	0.8

Measurement Date: 11/16/2023

Measurements

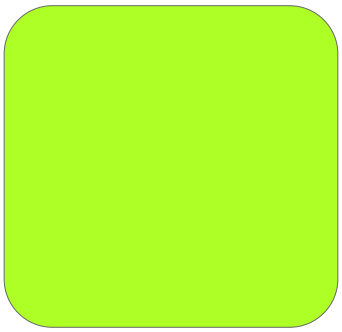
Total Lumen Output: 6770 lm

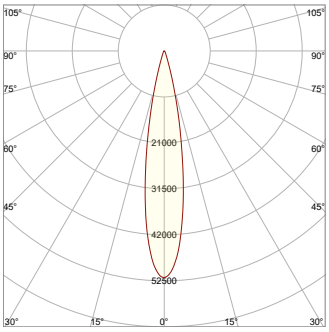
Peak Intensity: 51721 cd

Efficacy: 40 Lumen/Watt

Power: 169.2 W

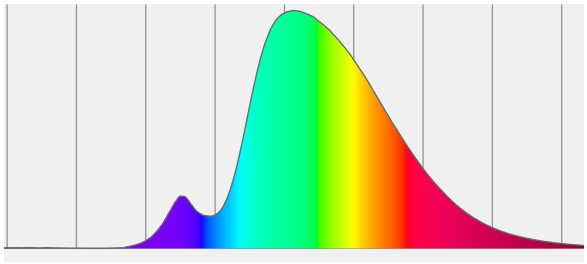
Voltage: 118 V, Current: 1.50 A

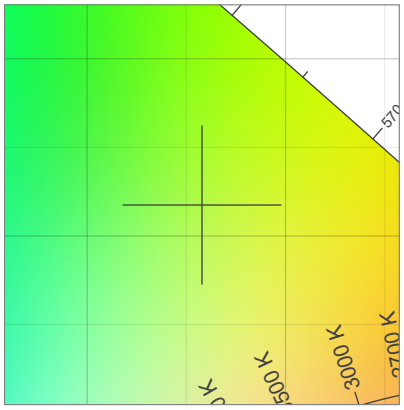




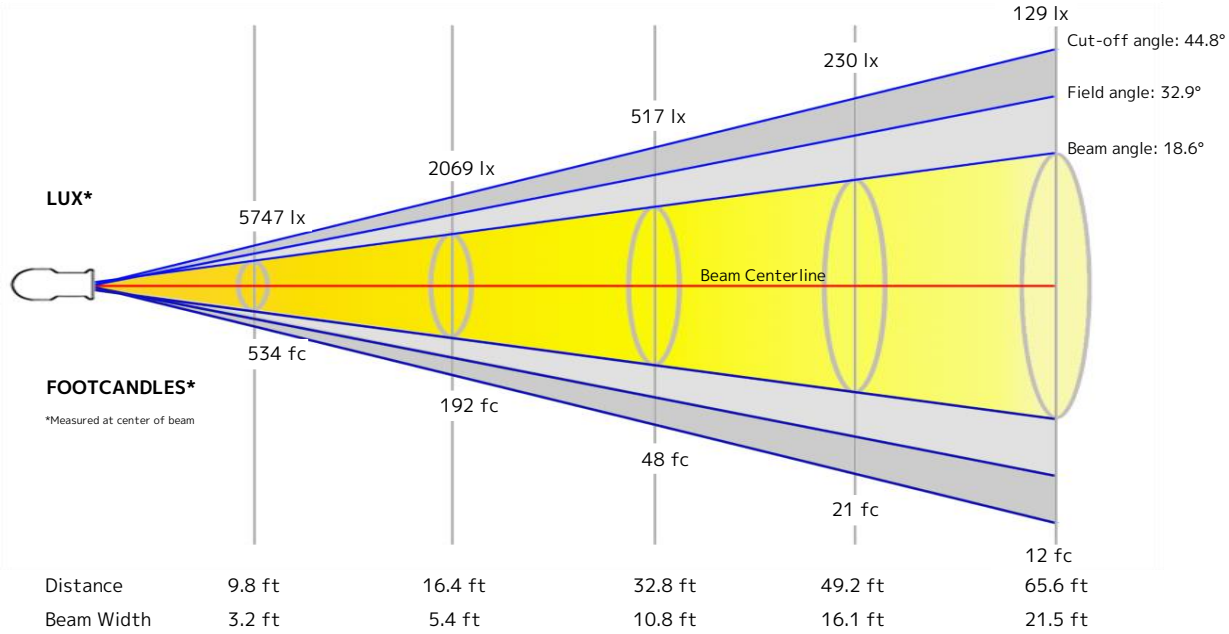
Spectral Power Distribution

Dominant Wavelength 561 nm





Dominant Wavelength	Color Coordinate CIE 1931	Color Coordinate CIE1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964
nm	x	y	u	v
561	0.358	0.517	0.169	0.366



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	51721	12930	5747	3233	2069	1437	1056	808	639	517	427	359	306	264	230	202	179	160	143	129
FC	4805	1201.3	533.9	300.3	192.2	133.5	98.1	75.1	59.3	48.1	39.7	33.4	28.4	24.5	21.4	18.8	16.6	14.8	13.3	12

Measurement Date: 11/16/2023

Measurements

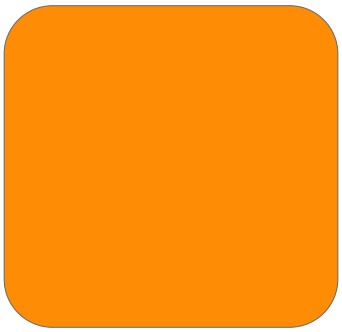
Total Lumen Output: 1886 lm

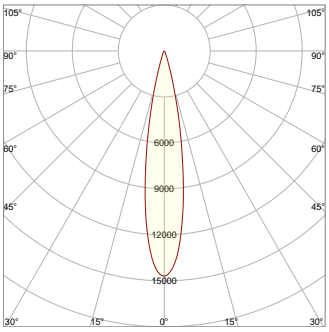
Peak Intensity: 14682 cd

Efficacy: 19 Lumen/Watt

Power: 101.3 W

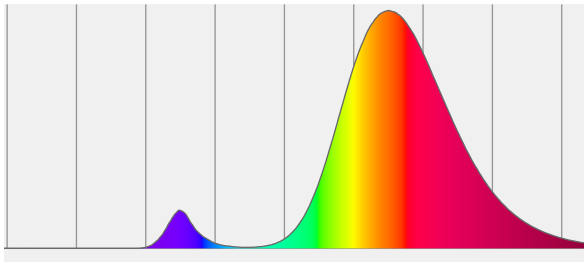
Voltage: 118 V, Current: 0.915 A

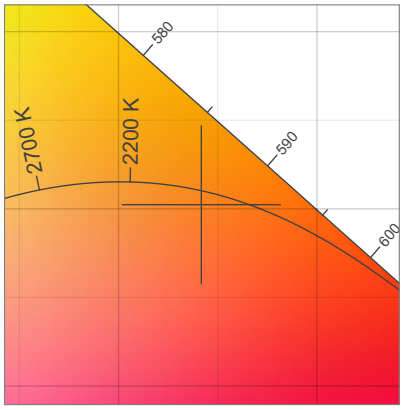




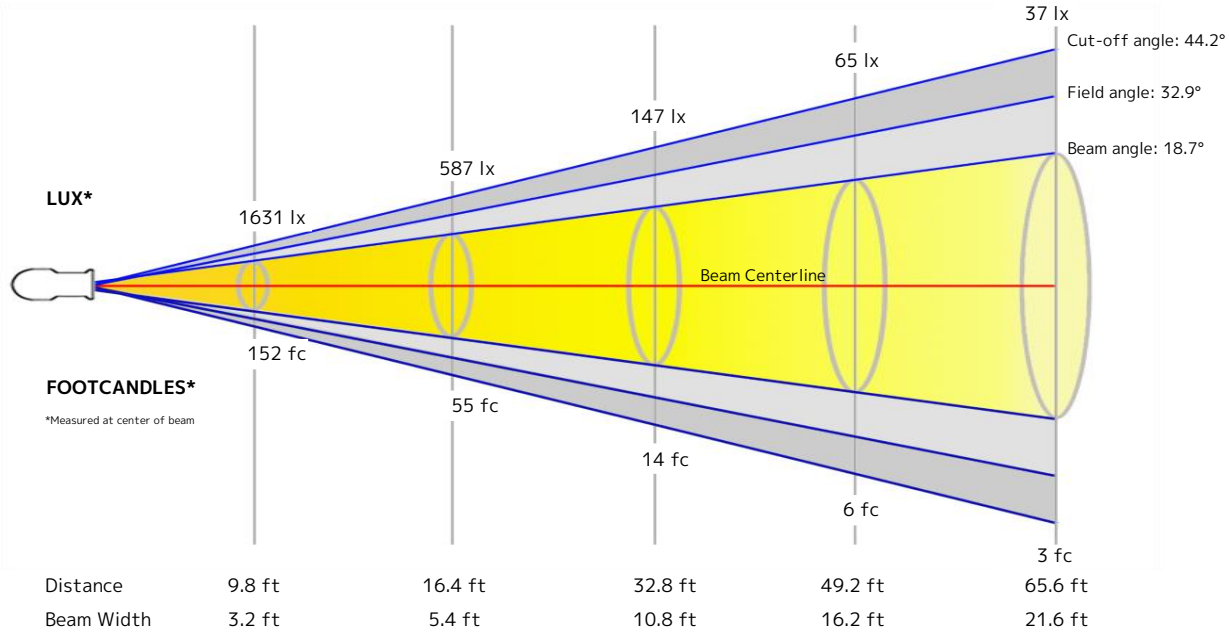
Spectral Power Distribution

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	0.542	0.402	0.321	0.358



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	14682	3671	1631	918	587	408	300	229	181	147	121	102	87	75	65	57	51	45	41	37
FC	1364	341	151.6	85.3	54.6	37.9	27.8	21.3	16.8	13.6	11.3	9.5	8.1	7	6.1	5.3	4.7	4.2	3.8	3.4

Measurement Date: 11/16/2023