SIX+ BAR L Optional Lenses

Photometric &

Chromaticity Test Reports

CONTENTS

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Testing Process

Total Lumen Measurements

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

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

Test Lab Equipment and Process

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

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

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

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

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

Six+ Bar L (20°, Full Output, No UV)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 6960 lm

Peak Intensity: 31556 cd

Beam

Beam Angle (50%): 24.2°

Field Angle (10%): 45°

Cutoff Angle (2.5%): 62.8°

Color

Color Temperature: 6752 K

CRI: 66.4

TLCI: 73

TM30 R_F: 77.9

TM30 R_g: 120.9

Power Details

Efficacy: 40 Lumen/Watt

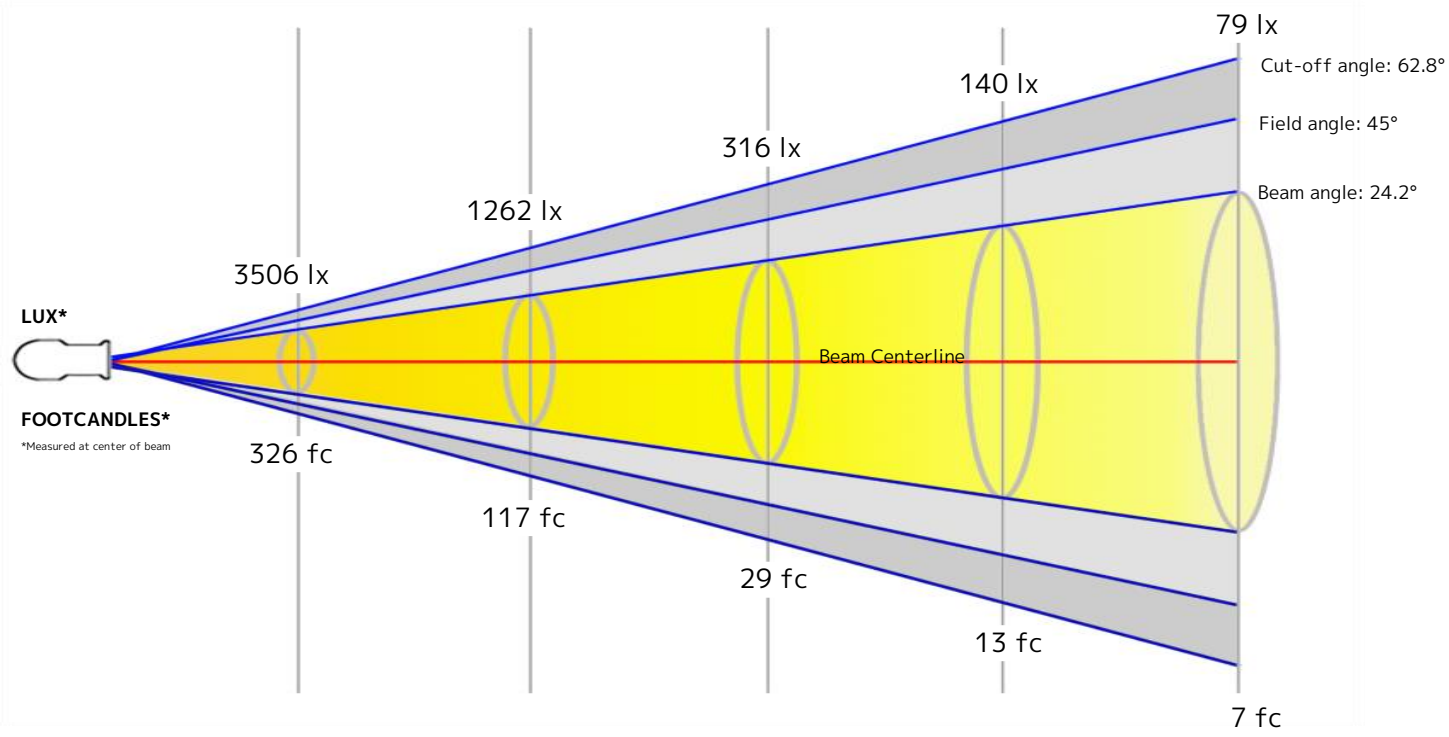
Power: 172.9 W

Supply Voltage: 118 V

Current: 1.47 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.3 m	2.1 m	4.3 m	6.4 m	8.6 m



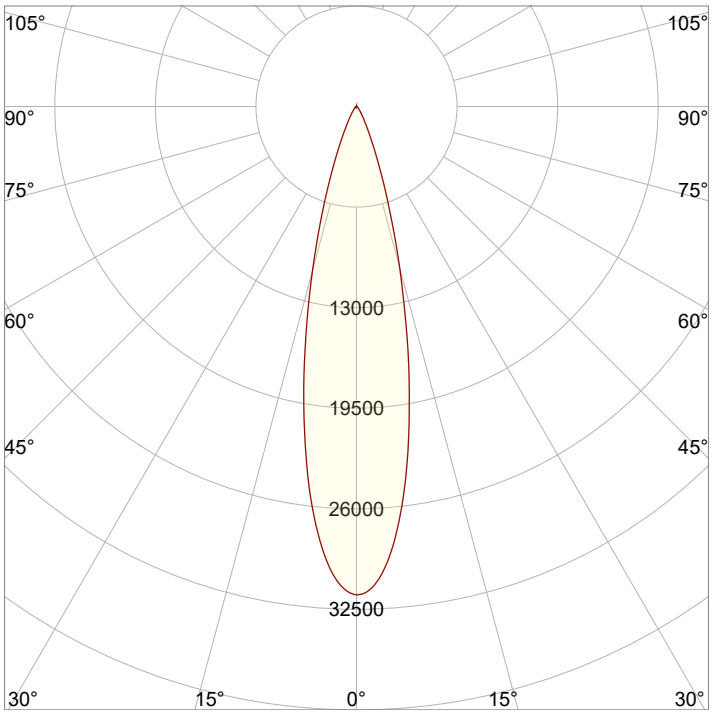
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4.2 ft	7 ft	14.1 ft	21.1 ft	28.1 ft

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	31551	7888	3506	1972	1262	876	644	493	390	316	261	219	187	161	140	123	109	97	87	79
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	2931.2	732.8	325.7	183.2	117.2	81.4	59.8	45.8	36.2	29.3	24.2	20.4	17.3	15	13	11.5	10.1	9	8.1	7.3

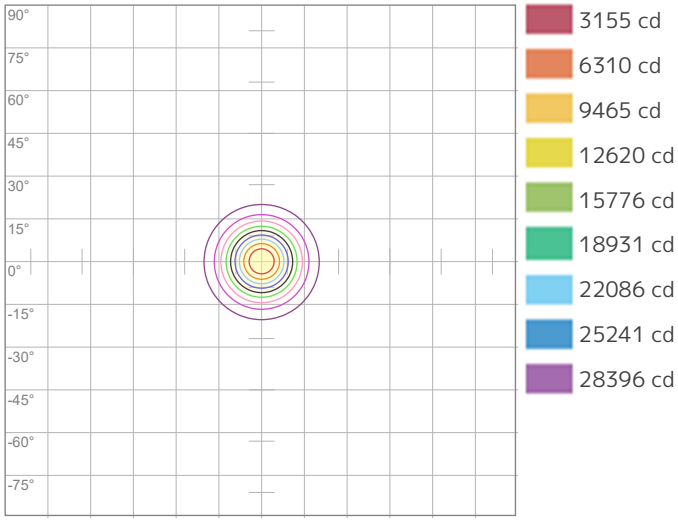
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
24.2°
Field Angle - 10%
45°
Cutoff Angle - 2.5%
62.8°

ISO Diagrams

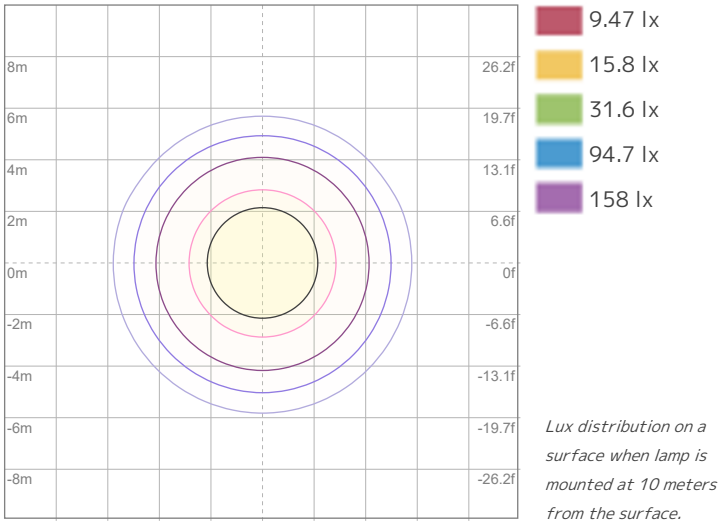


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 31551 cd



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

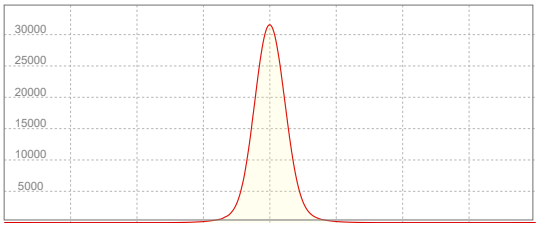
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 316 lx

Linear Distribution



Peak Candela

31556 cd

Calculate Center Beam Intensities

lux = 31556 / distance(m)^2

fc = 31556 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (20°, Full Output)

Key Measurements

Output

Total Lumen Output: 6379 lm

Peak Intensity: 29368 cd

Beam

Beam Angle (50%): 24.2°

Field Angle (10%): 45°

Cutoff Angle (2.5%): 61.9°

Color

Color Temperature: 7148 K

CRI: 64.0

TLCI: 71

TM30 R_F: 76.1

TM30 R_g: 122.2

Power Details

Efficacy: 33 Lumen/Watt

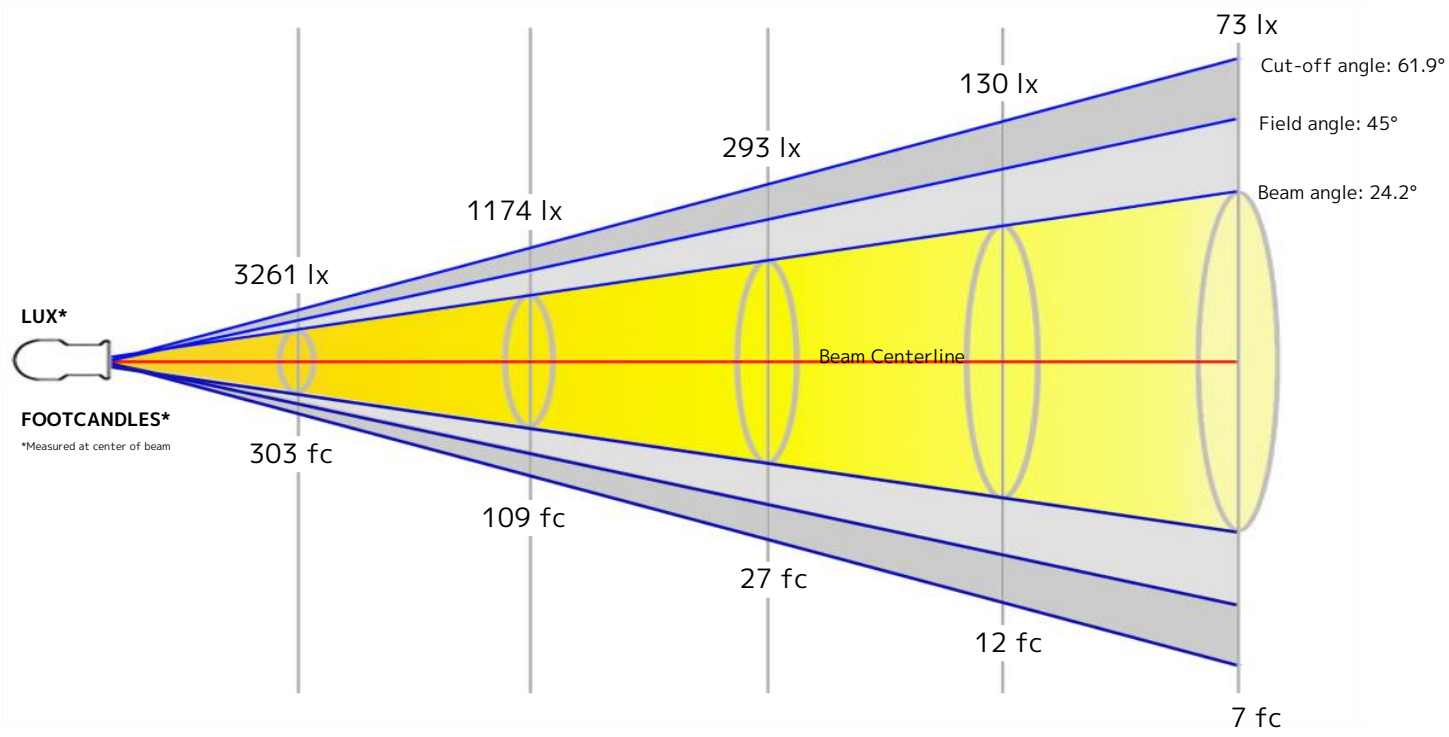
Power: 194 W

Supply Voltage: 118 V

Current: 1.64 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.3 m	2.1 m	4.3 m	6.4 m	8.6 m



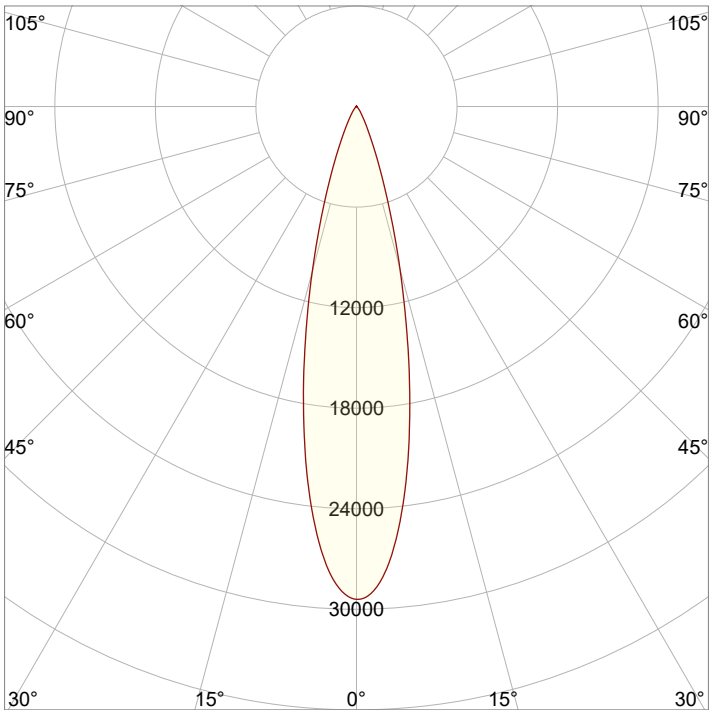
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4.2 ft	7 ft	14 ft	21.1 ft	28.1 ft

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	29345	7336	3261	1834	1174	815	599	459	362	293	243	204	174	150	130	115	102	91	81	73
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	2726.2	681.6	302.9	170.4	109	75.7	55.6	42.6	33.7	27.3	22.5	18.9	16.1	13.9	12.1	10.6	9.4	8.4	7.6	6.8

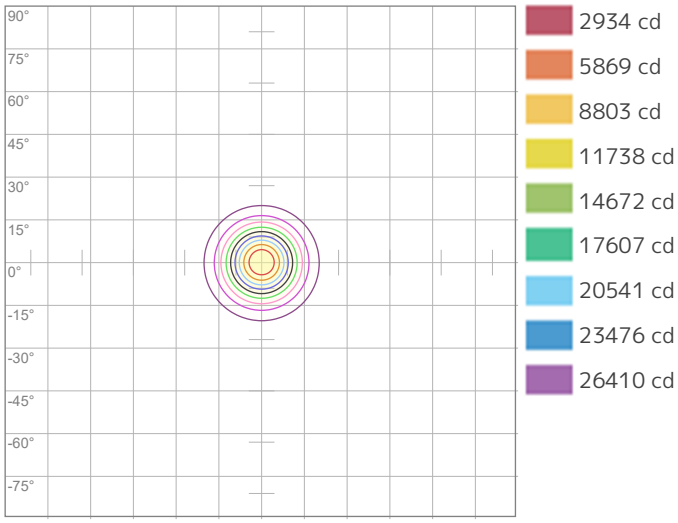
Measurement Date: 8/13/2024

Angular Distribution



Beam Angle - 50%
24.2°
Field Angle - 10%
45°
Cutoff Angle - 2.5%
61.9°

ISO Diagrams

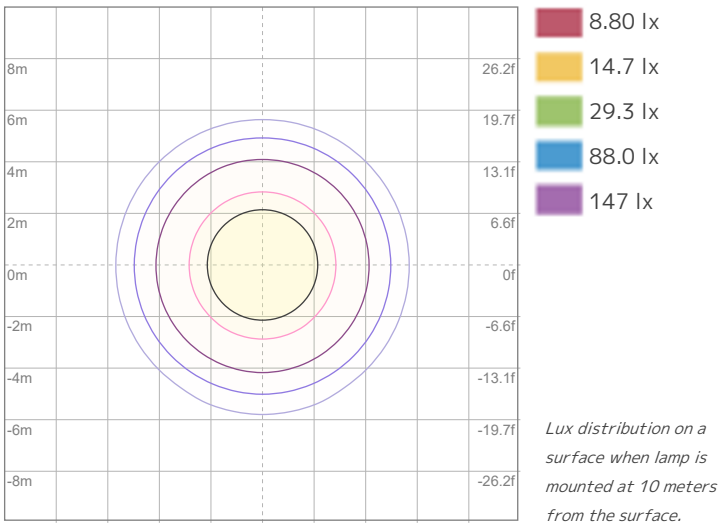


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 29345 cd



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

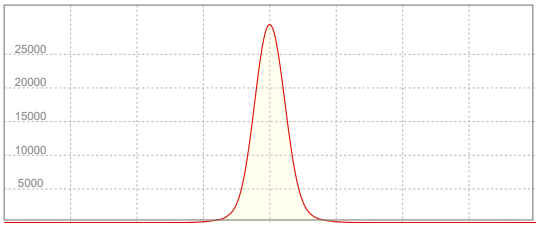
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 293 lx

Linear Distribution



Peak Candela

29368 cd

Calculate Center Beam Intensities

lux = 29368 / distance(m)^2

fc = 29368 / distance(ft)^2

Measurement Date: 8/13/2024

Key Measurements

Output

Total Lumen Output: 4937 lm

Peak Intensity: 22766 cd

Beam

Beam Angle (50%): 24.1°

Field Angle (10%): 44.8°

Cutoff Angle (2.5%): 62°

Color

Color Temperature: 2419 K

CRI: 85.7

TLCI: 78

TM30 R_F: 89.2

TM30 R_g: 107.5

Power Details

Efficacy: 46 Lumen/Watt

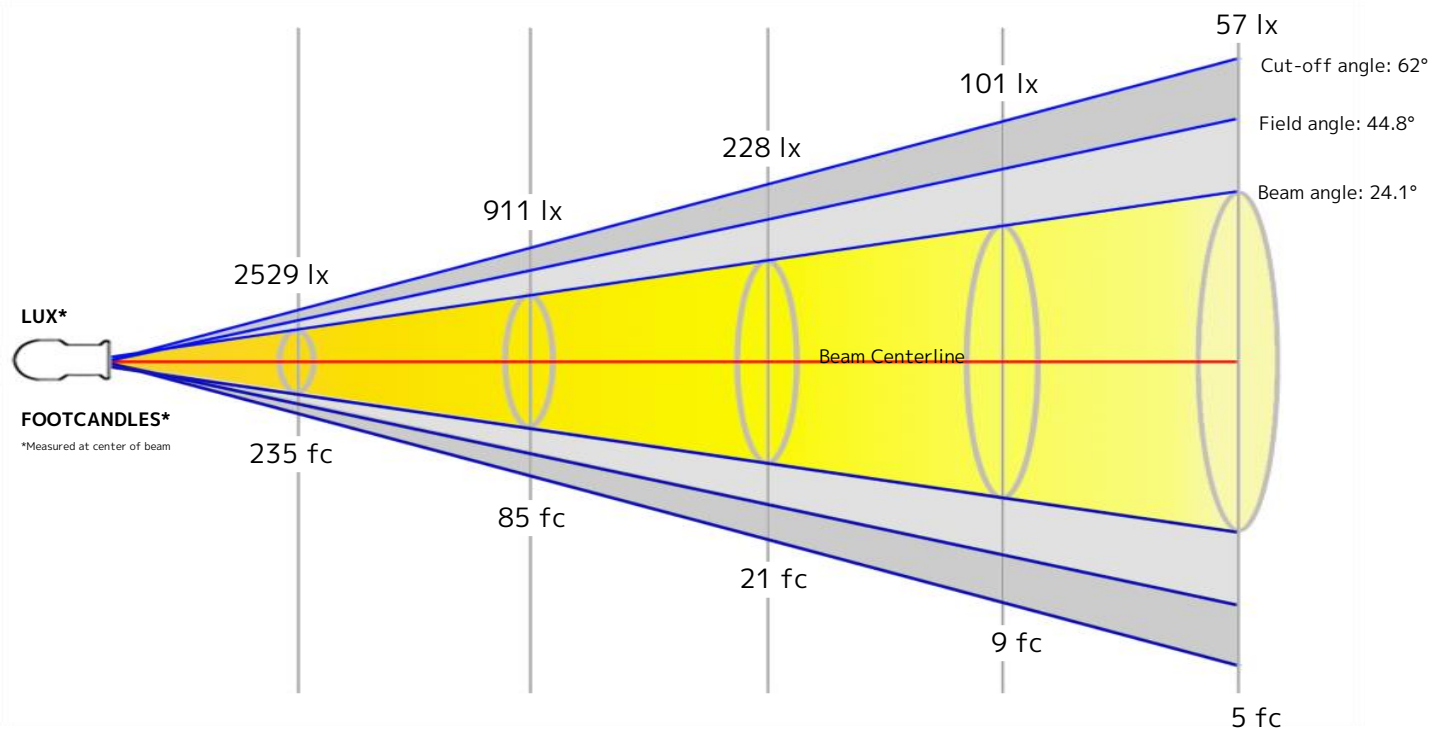
Power: 108.3 W

Supply Voltage: 119 V

Current: 0.912 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.3 m	2.1 m	4.3 m	6.4 m	8.5 m



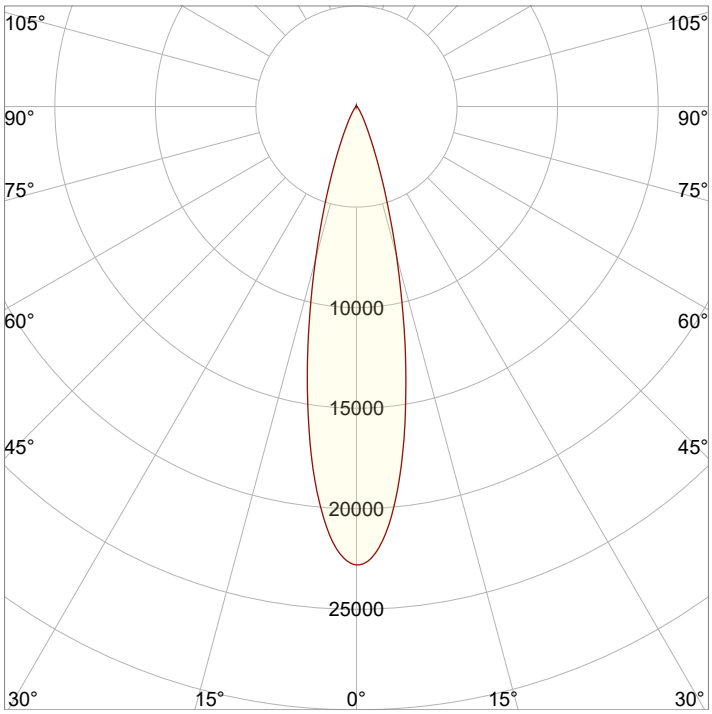
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4.2 ft	7 ft	14 ft	21 ft	28 ft

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	22765	5691	2529	1423	911	632	465	356	281	228	188	158	135	116	101	89	79	70	63	57
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	2114.9	528.7	235	132.2	84.6	58.7	43.2	33	26.1	21.1	17.5	14.7	12.5	10.8	9.4	8.3	7.3	6.5	5.9	5.3

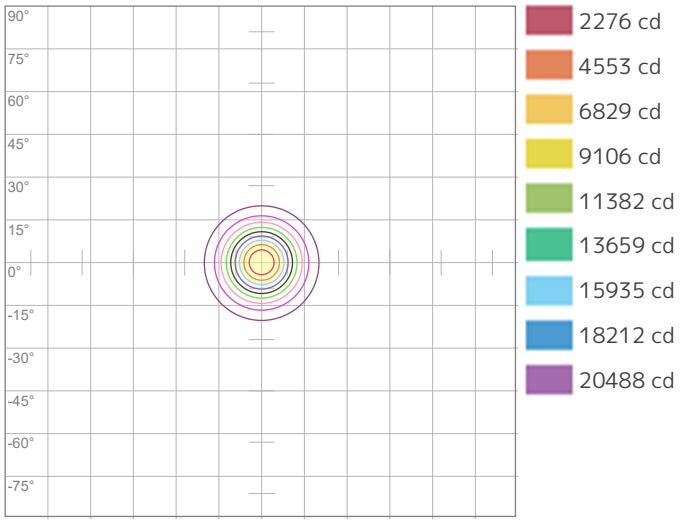
Measurement Date: 8/9/2024

Angular Distribution



Beam Angle - 50%
24.1°
Field Angle - 10%
44.8°
Cutoff Angle - 2.5%
62°

ISO Diagrams

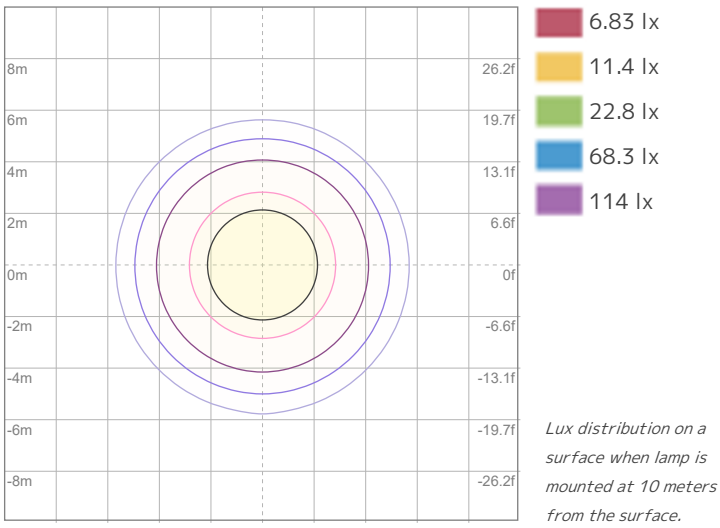


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 22765 cd



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

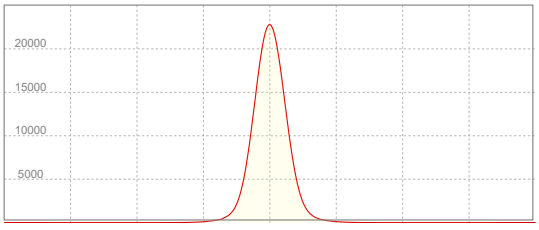
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 228 lx

Linear Distribution



Peak Candela

22766 cd

Calculate Center Beam Intensities

lux = 22766 / distance(m)^2

fc = 22766 / distance(ft)^2

Measurement Date: 8/9/2024

Key Measurements

Output

Total Lumen Output: 5572 lm

Peak Intensity: 25258 cd

Beam

Beam Angle (50%): 24.2°

Field Angle (10%): 45°

Cutoff Angle (2.5%): 62.8°

Color

Color Temperature: 3255 K

CRI: 91.7

TLCI: 83

TM30 R_F: 91.9

TM30 R_g: 107.0

Power Details

Efficacy: 48 Lumen/Watt

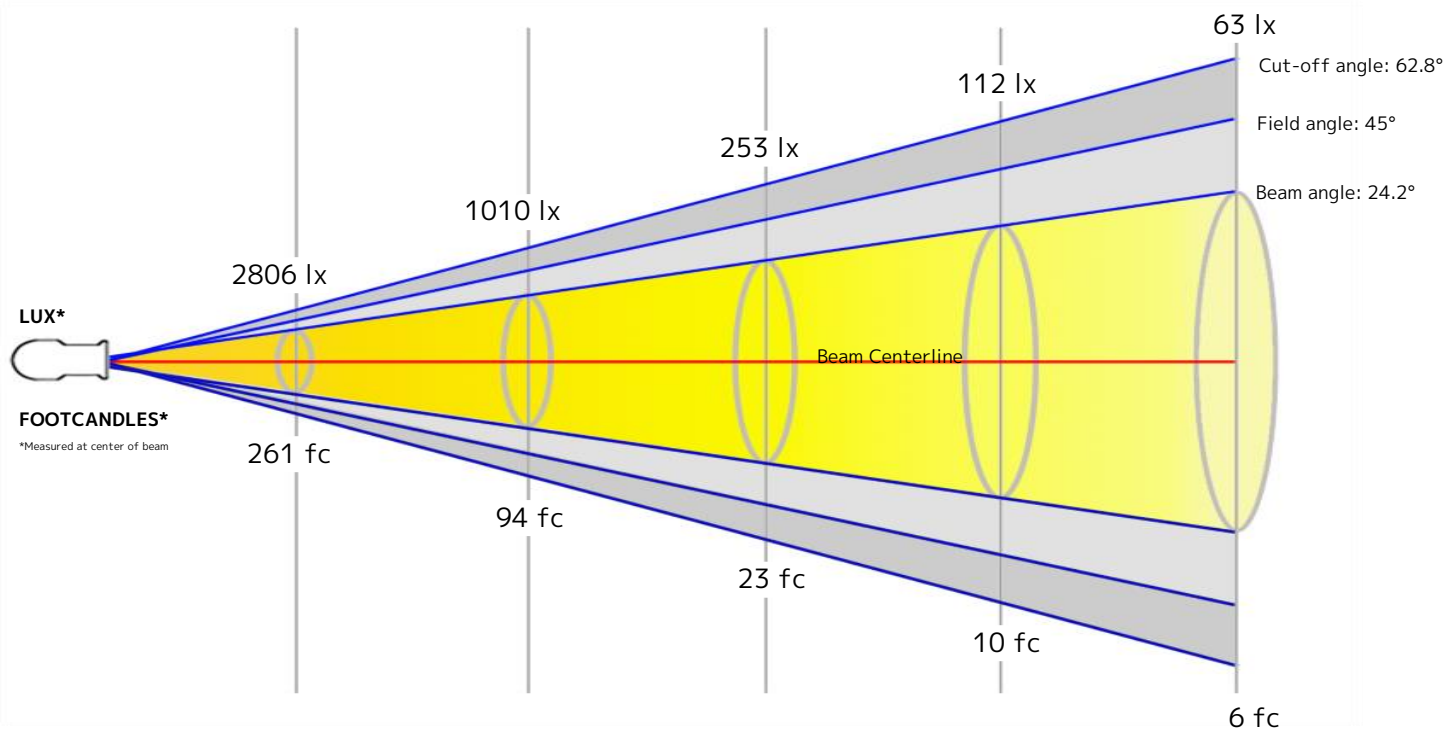
Power: 115.5 W

Supply Voltage: 119 V

Current: 0.974 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.3 m	2.1 m	4.3 m	6.4 m	8.6 m



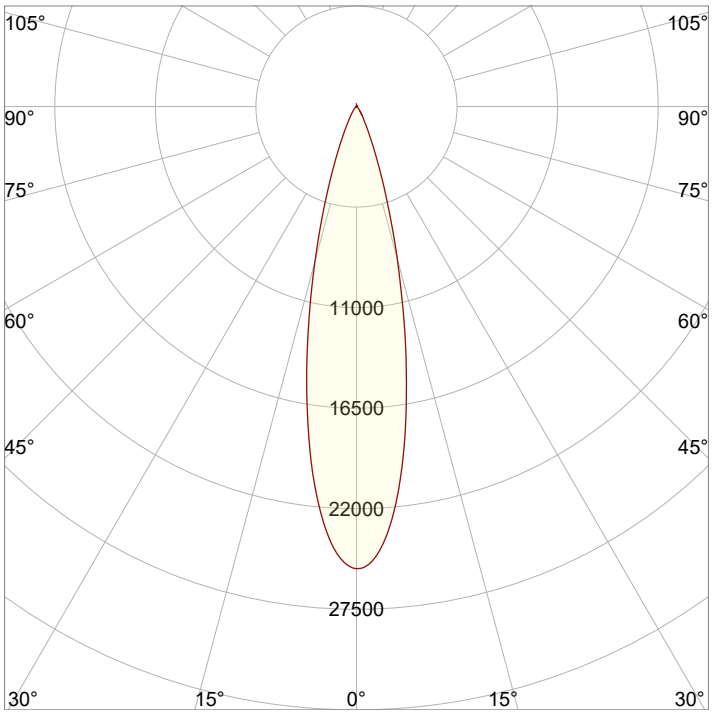
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4.2 ft	7 ft	14 ft	21.1 ft	28.1 ft

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	25252	6313	2806	1578	1010	701	515	395	312	253	209	175	149	129	112	99	87	78	70	63
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	2346	586.5	260.7	146.6	93.8	65.2	47.9	36.7	29	23.5	19.4	16.3	13.9	12	10.4	9.2	8.1	7.2	6.5	5.9

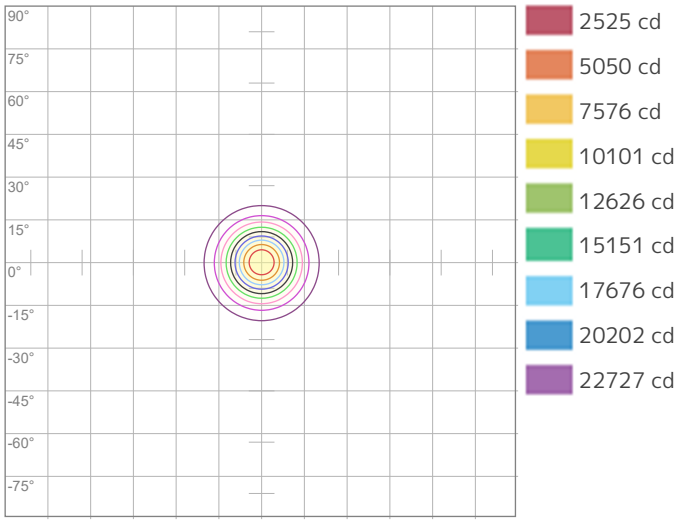
Measurement Date: 8/9/2024

Angular Distribution



Beam Angle - 50%
24.2°
Field Angle - 10%
45°
Cutoff Angle - 2.5%
62.8°

ISO Diagrams

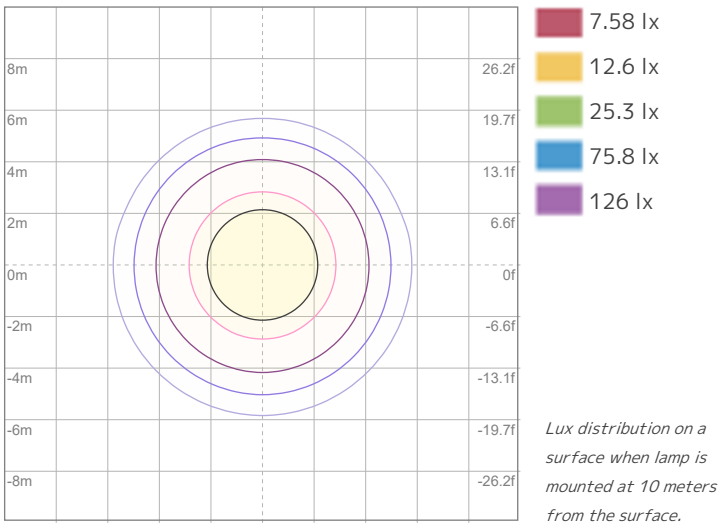


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 25252 cd



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

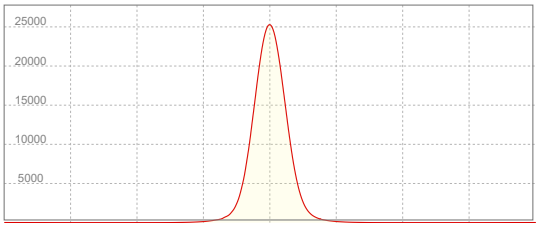
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 253 lx

Linear Distribution



Peak Candela

25258 cd

Calculate Center Beam Intensities

lux = 25258 / distance(m)^2

fc = 25258 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (20°, 4500K)

Key Measurements

Output

Total Lumen Output: 5983 lm

Peak Intensity: 26768 cd

Beam

Beam Angle (50%): 24.3°

Field Angle (10%): 45.2°

Cutoff Angle (2.5%): 63.2°

Color

Color Temperature: 4513 K

CRI: 91.9

TLCI: 82

TM30 R_F: 90.2

TM30 R_g: 106.8

Power Details

Efficacy: 48 Lumen/Watt

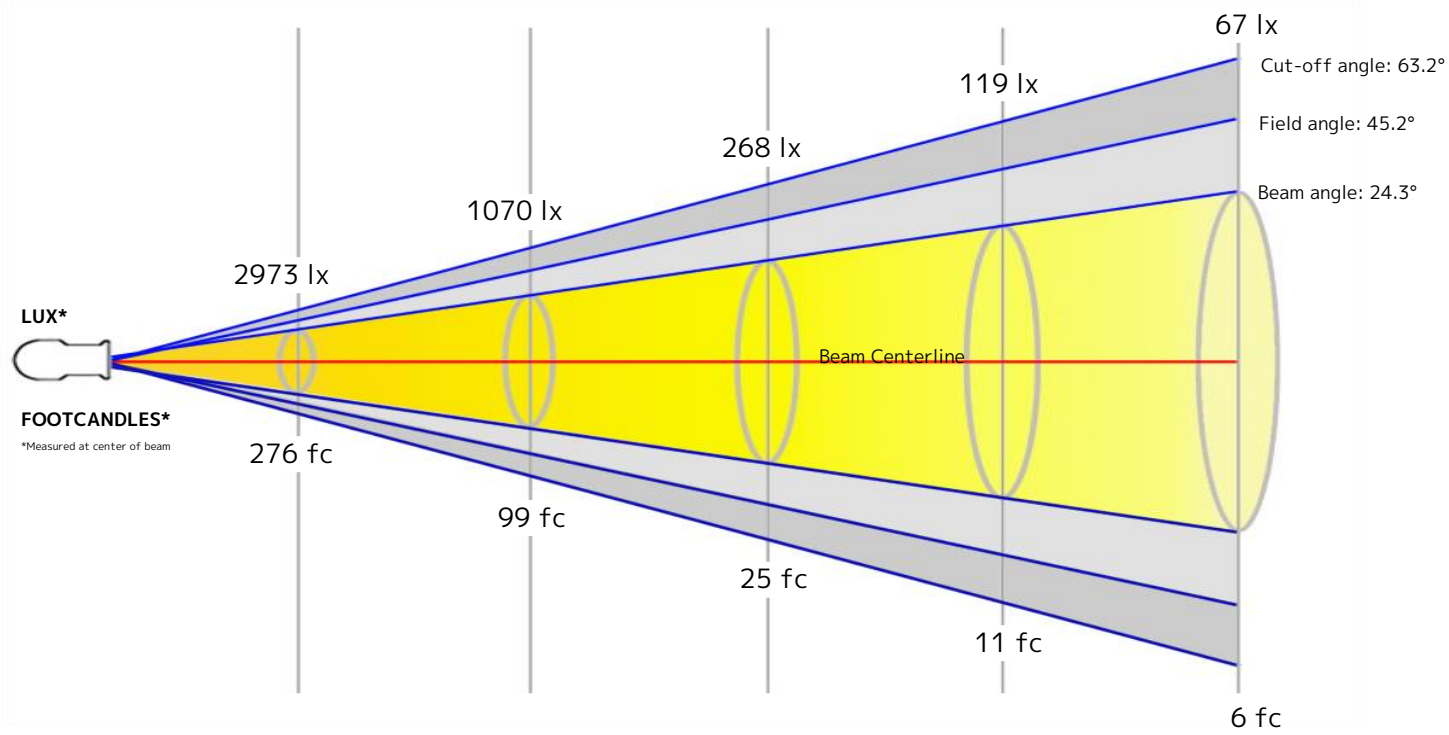
Power: 123.7 W

Supply Voltage: 119 V

Current: 1.04 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.3 m	2.1 m	4.3 m	6.4 m	8.6 m



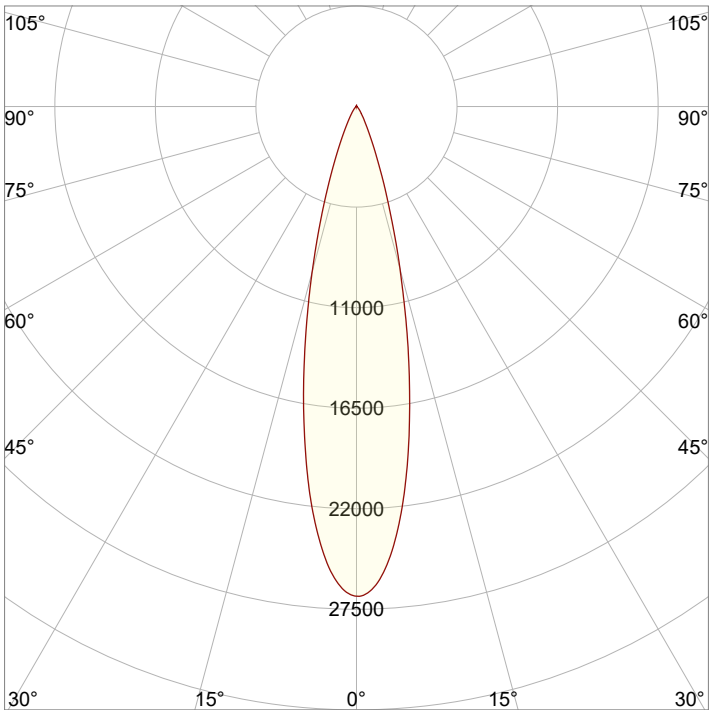
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4.2 ft	7 ft	14.1 ft	21.1 ft	28.2 ft

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	26753	6688	2973	1672	1070	743	546	418	330	268	221	186	158	136	119	105	93	83	74	67
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	2485.5	621.4	276.2	155.3	99.4	69	50.7	38.8	30.7	24.9	20.5	17.3	14.7	12.7	11	9.7	8.6	7.7	6.9	6.2

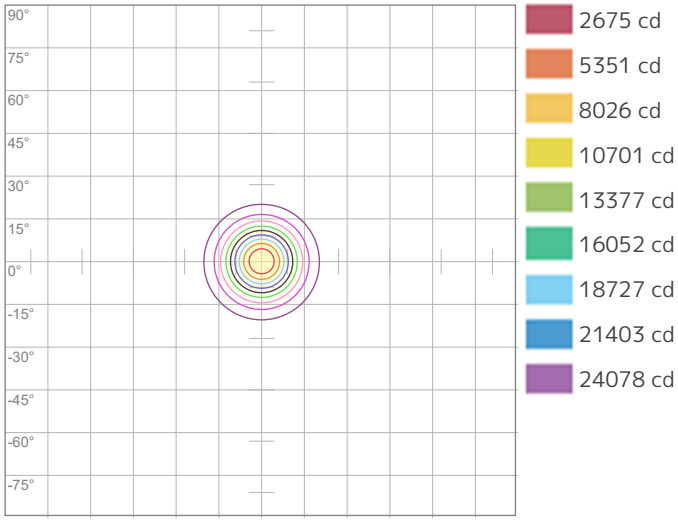
Measurement Date: 8/9/2024

Angular Distribution



Beam Angle - 50%
24.3°
Field Angle - 10%
45.2°
Cutoff Angle - 2.5%
63.2°

ISO Diagrams

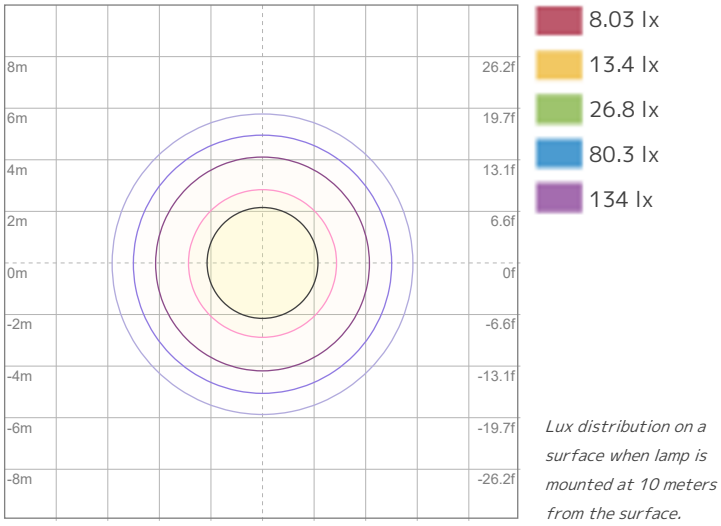


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 26753 cd



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

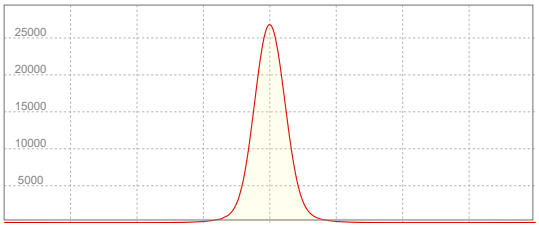
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 268 lx

Linear Distribution



Peak Candela

26768 cd

Calculate Center Beam Intensities

lux = 26768 / distance(m)^2

fc = 26768 / distance(ft)^2

Measurement Date: 8/9/2024

Key Measurements

Output

Total Lumen Output: 6798 lm

Peak Intensity: 30069 cd

Beam

Beam Angle (50%): 24.3°

Field Angle (10%): 45.4°

Cutoff Angle (2.5%): 63.7°

Color

Color Temperature: 6457 K

CRI: 89.3

TLCI: 84

TM30 R_F: 88.4

TM30 R_g: 106.9

Power Details

Efficacy: 47 Lumen/Watt

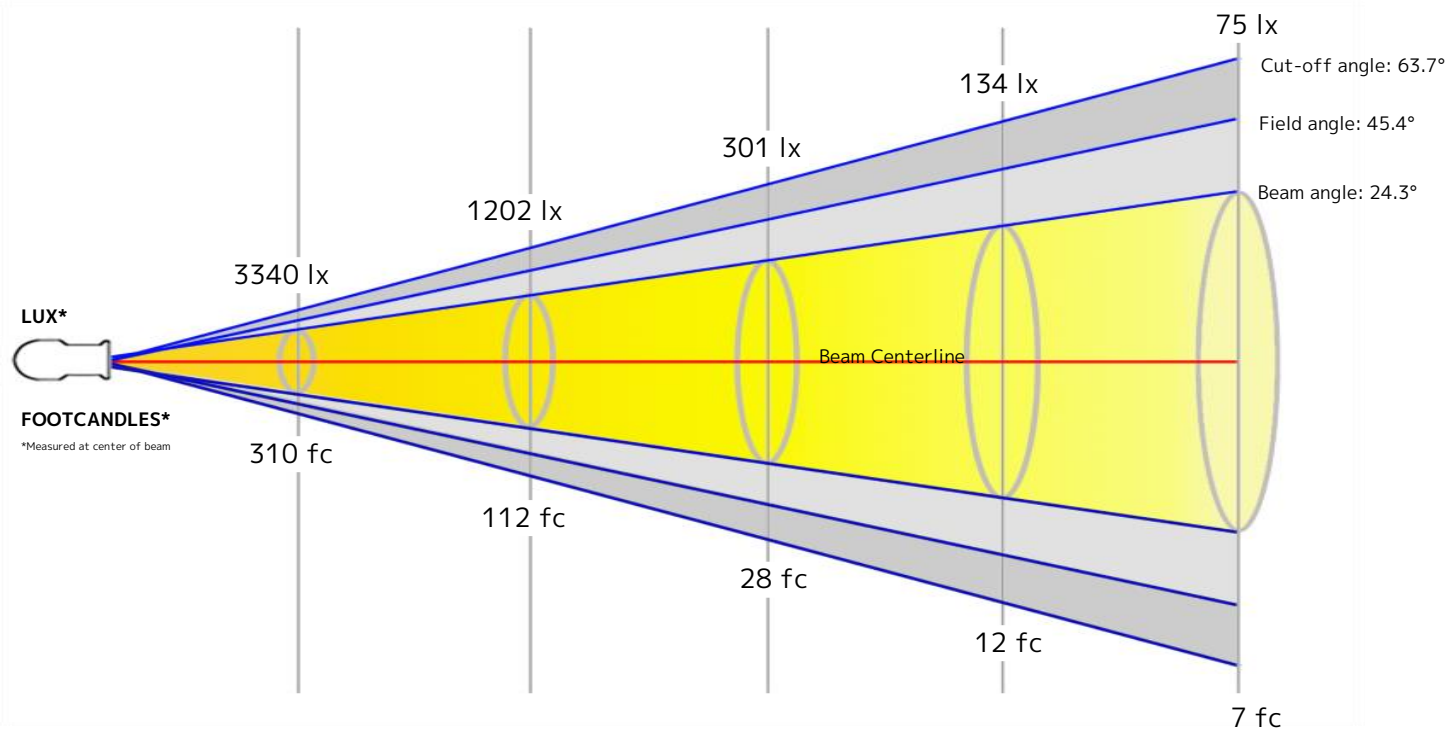
Power: 144.2 W

Supply Voltage: 118 V

Current: 1.22 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.3 m	2.2 m	4.3 m	6.5 m	8.6 m



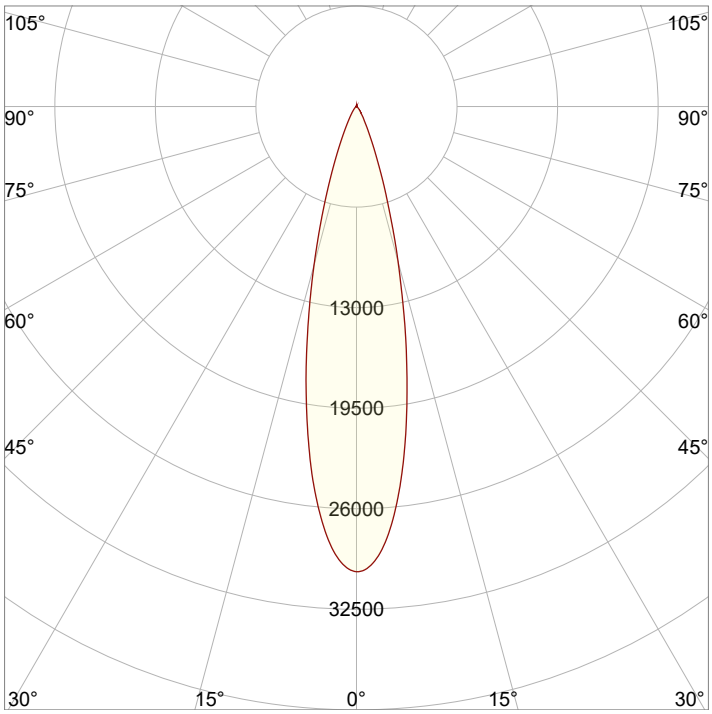
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4.2 ft	7.1 ft	14.1 ft	21.2 ft	28.2 ft

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	30061	7515	3340	1879	1202	835	613	470	371	301	248	209	178	153	134	117	104	93	83	75
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	2792.8	698.2	310.3	174.5	111.7	77.6	57	43.6	34.5	27.9	23.1	19.4	16.5	14.2	12.4	10.9	9.7	8.6	7.7	7

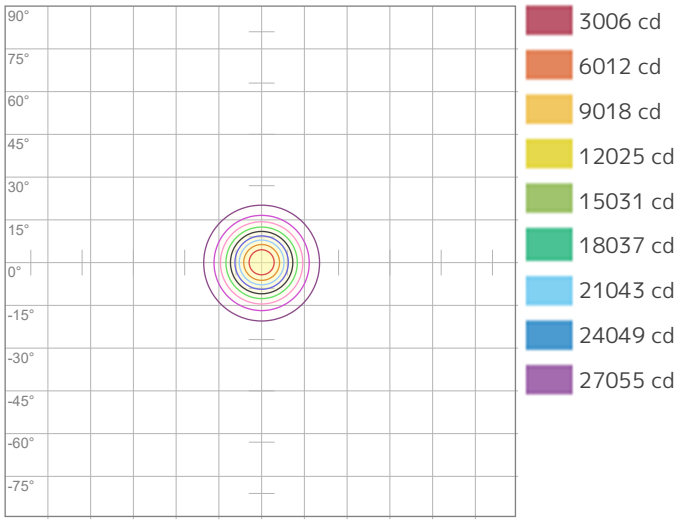
Measurement Date: 8/9/2024

Angular Distribution



Beam Angle - 50%
24.3°
Field Angle - 10%
45.4°
Cutoff Angle - 2.5%
63.7°

ISO Diagrams

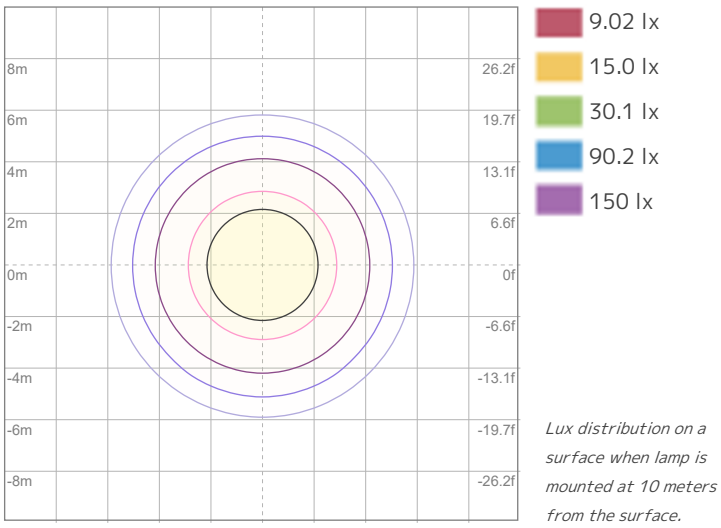


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 30061 cd



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

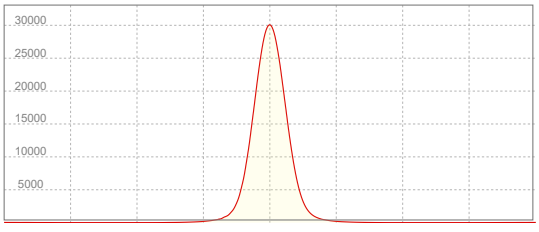
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 301 lx

Linear Distribution



Peak Candela

30069 cd

Calculate Center Beam Intensities

lux = 30069 / distance(m)^2

fc = 30069 / distance(ft)^2

Measurement Date: 8/9/2024

Key Measurements

Output

Total Lumen Output: 6350 lm

Peak Intensity: 27959 cd

Beam

Beam Angle (50%): 24.3°

Field Angle (10%): 45.5°

Cutoff Angle (2.5%): 63.8°

Color

Color Temperature: 8478 K

CRI: 88.4

TLCI: 84

TM30 R_F: 87.1

TM30 R_g: 105.9

Power Details

Efficacy: 46 Lumen/Watt

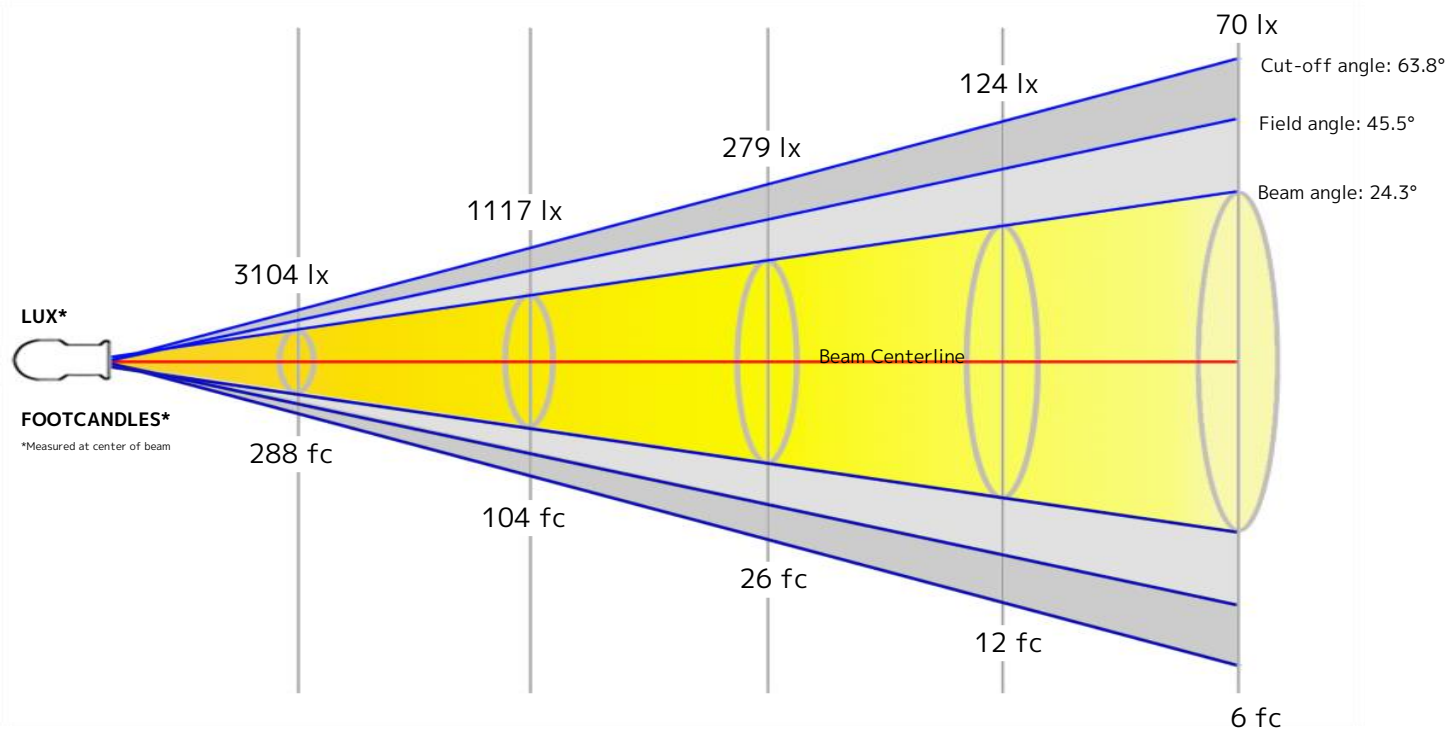
Power: 139.1 W

Supply Voltage: 119 V

Current: 1.17 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.3 m	2.2 m	4.3 m	6.5 m	8.6 m



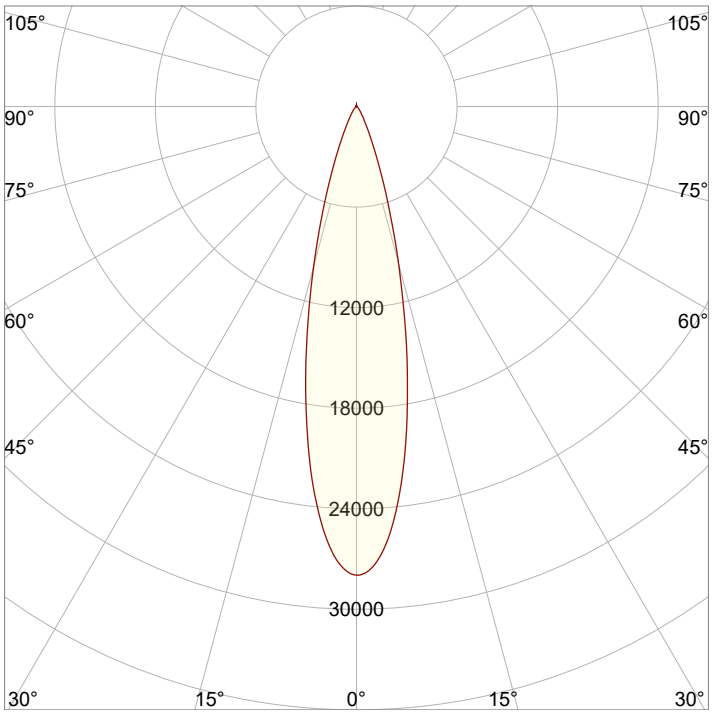
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4.2 ft	7.1 ft	14.1 ft	21.2 ft	28.3 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	27934	6983	3104	1746	1117	776	570	436	345	279	231	194	165	143	124	109	97	86	77	70
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	2595.1	648.8	288.3	162.2	103.8	72.1	53	40.5	32	26	21.4	18	15.4	13.2	11.5	10.1	9	8	7.2	6.5

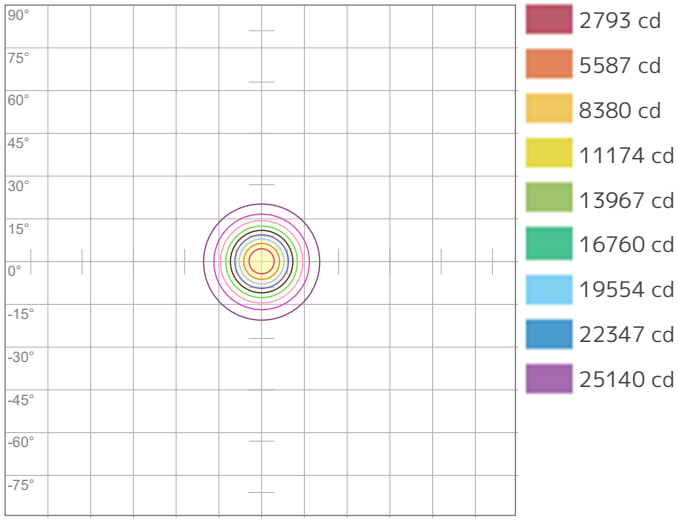
Measurement Date: 8/9/2024

Angular Distribution



Beam Angle - 50%
24.3°
Field Angle - 10%
45.5°
Cutoff Angle - 2.5%
63.8°

ISO Diagrams

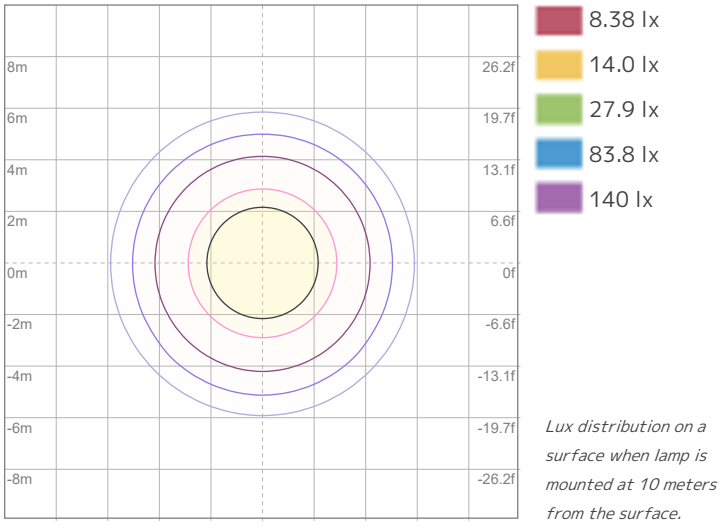


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 27934 cd



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

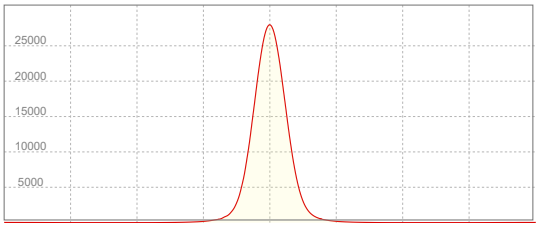
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 279 lx

Linear Distribution



Peak Candela

27959 cd

Calculate Center Beam Intensities

lux = 27959 / distance(m)^2

fc = 27959 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (60°, Full Output, No UV)

Key Measurements

Output

Total Lumen Output: 7515 lm

Peak Intensity: 5939 cd

Beam

Beam Angle (50%): 63.2°

Field Angle (10%): 113.7°

Cutoff Angle (2.5%): 142.2°

Color

Color Temperature: 6832 K

CRI: 65.2

TLCI: 72

TM30 R_F: 77.3

TM30 R_g: 121.5

Power Details

Efficacy: 43 Lumen/Watt

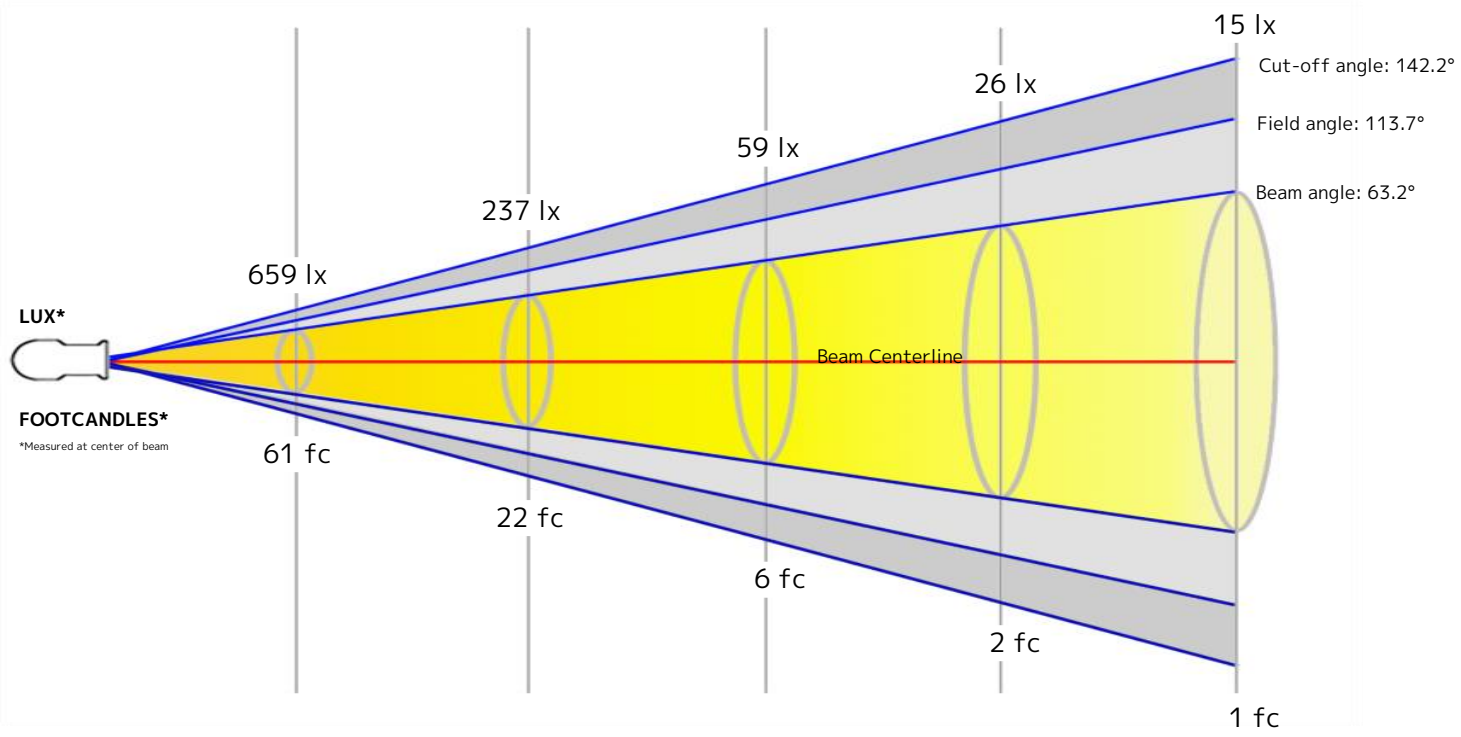
Power: 173.9 W

Supply Voltage: 118 V

Current: 1.48 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.7 m	6.1 m	12.3	18.4 m	24.6 m



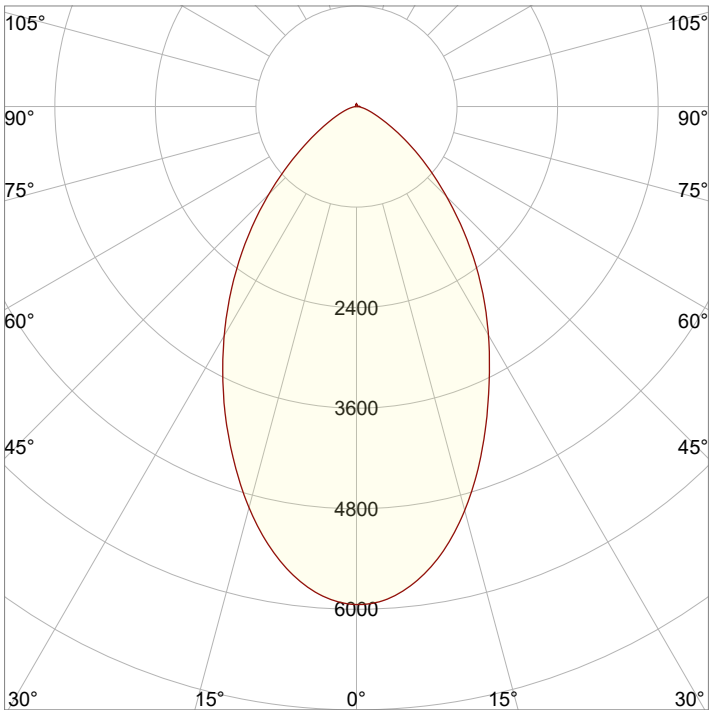
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12.1 ft	20.2 ft	40.3 ft	60.5 ft	80.7 ft

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	5933	1483	659	371	237	165	121	93	73	59	49	41	35	30	26	23	21	18	16	15
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	551.2	137.8	61.2	34.5	22	15.3	11.2	8.6	6.8	5.5	4.6	3.8	3.3	2.8	2.4	2.2	1.9	1.7	1.5	1.4

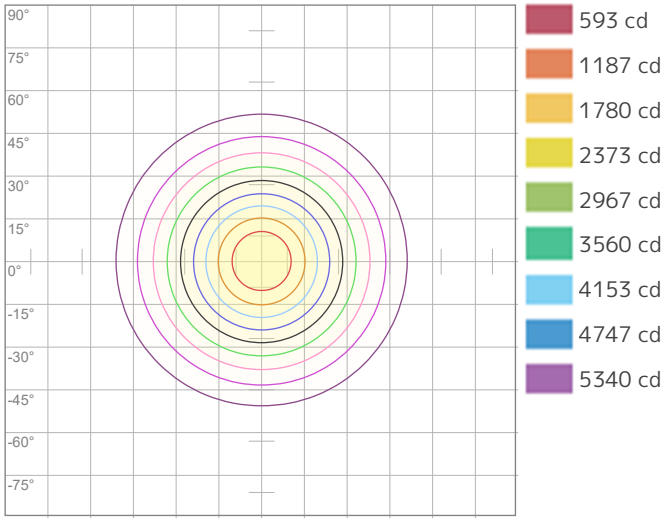
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
63.2°
Field Angle - 10%
113.7°
Cutoff Angle - 2.5%
142.2°

ISO Diagrams

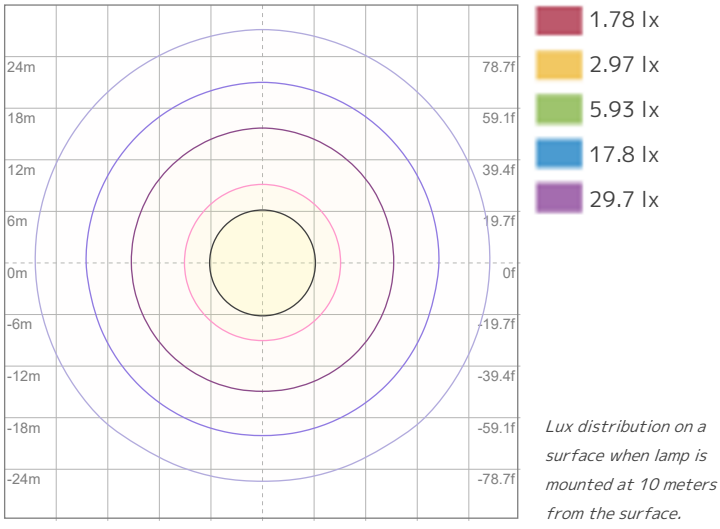


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 5933 cd



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

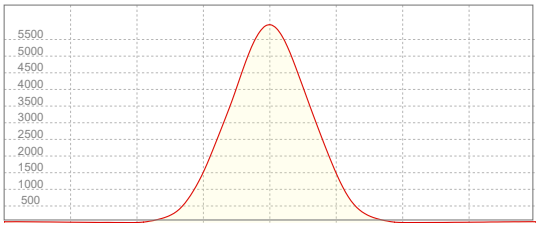
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 59.3 lx

Linear Distribution



Peak Candela

5939 cd

Calculate Center Beam Intensities

lux = 5939 / distance(m)^2

fc = 5939 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (60°, Full Output)

Key Measurements

Output

Total Lumen Output: 6124 lm

Peak Intensity: 4831 cd

Beam

Beam Angle (50%): 63.1°

Field Angle (10%): 113.6°

Cutoff Angle (2.5%): 142.5°

Color

Color Temperature: 7710 K

CRI: 64.0

TLCI: 73

TM30 R_F: 75.7

TM30 R_g: 122.1

Power Details

Efficacy: 36 Lumen/Watt

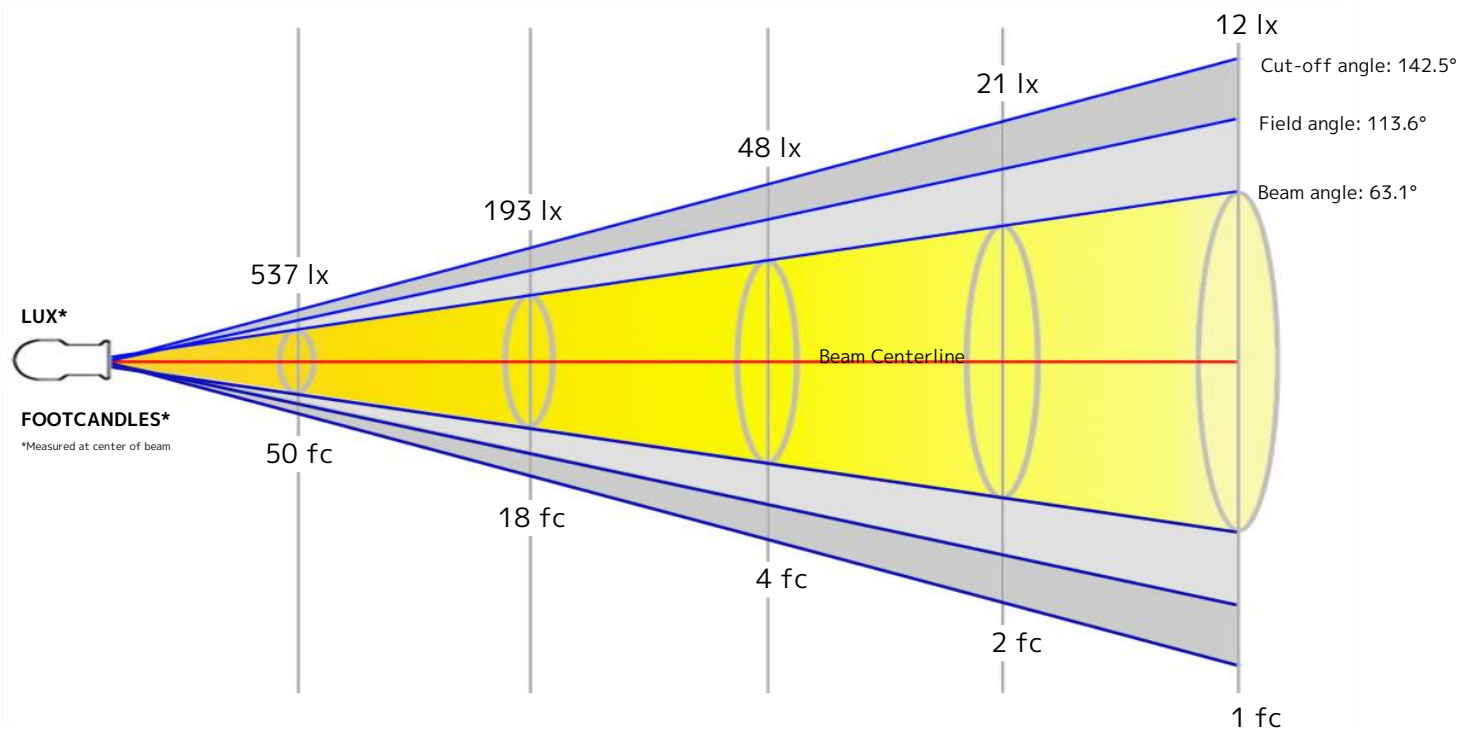
Power: 172.4 W

Supply Voltage: 119 V

Current: 1.46 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.7 m	6.1 m	12.3	18.4 m	24.6 m



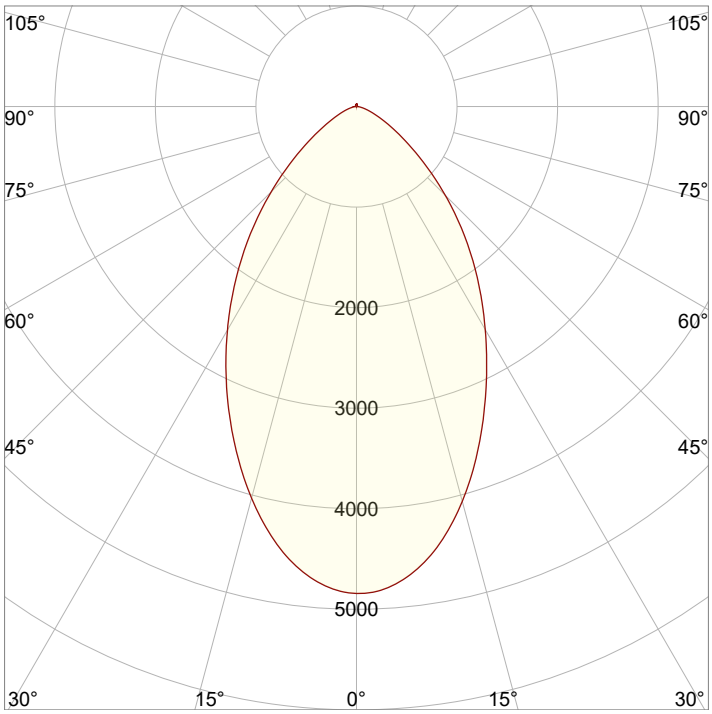
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12 ft	20.2 ft	40.3 ft	60.5 ft	80.6 ft

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	4829	1207	537	302	193	134	99	75	60	48	40	34	29	25	21	19	17	15	13	12
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	448.6	112.2	49.8	28	17.9	12.5	9.2	7	5.5	4.5	3.7	3.1	2.7	2.3	2	1.8	1.6	1.4	1.2	1.1

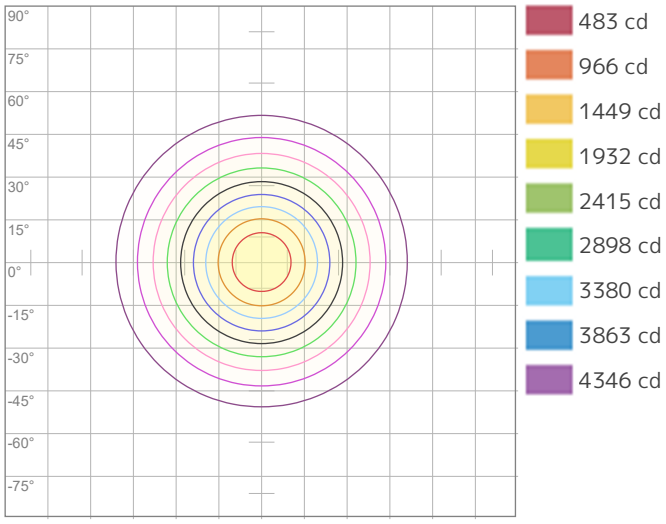
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
63.1°
Field Angle - 10%
113.6°
Cutoff Angle - 2.5%
142.5°

ISO Diagrams

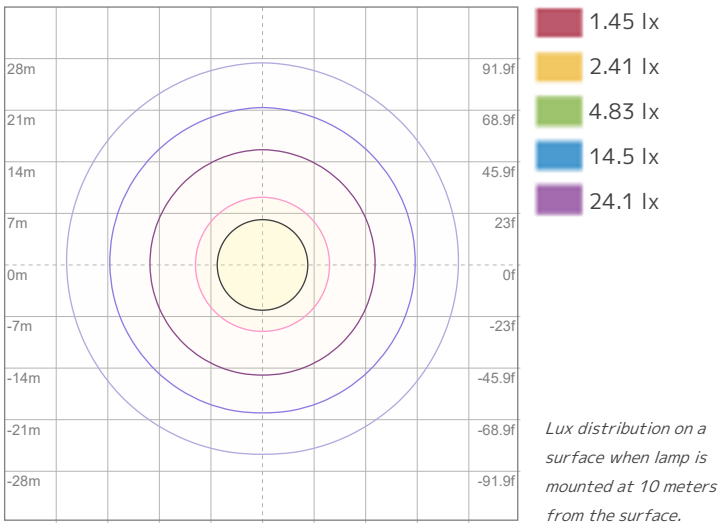


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 4829 cd



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

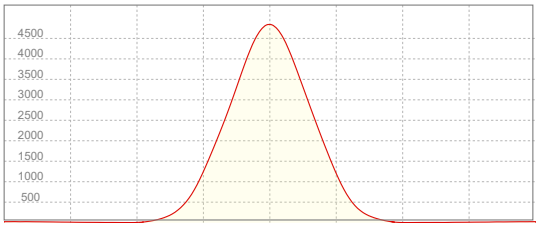
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 48.3 lx

Linear Distribution



Peak Candela

4831 cd

Calculate Center Beam Intensities

$lux = 4831 / distance(m)^2$

$fc = 4831 / distance(ft)^2$

Measurement Date: 8/12/2024

Key Measurements

Output

Total Lumen Output: 5026 lm

Peak Intensity: 4017 cd

Beam

Beam Angle (50%): 62.7°

Field Angle (10%): 113°

Cutoff Angle (2.5%): 141.4°

Color

Color Temperature: 2469 K

CRI: 86.2

TLCI: 81

TM30 R_F: 89.7

TM30 R_g: 107.6

Power Details

Efficacy: 47 Lumen/Watt

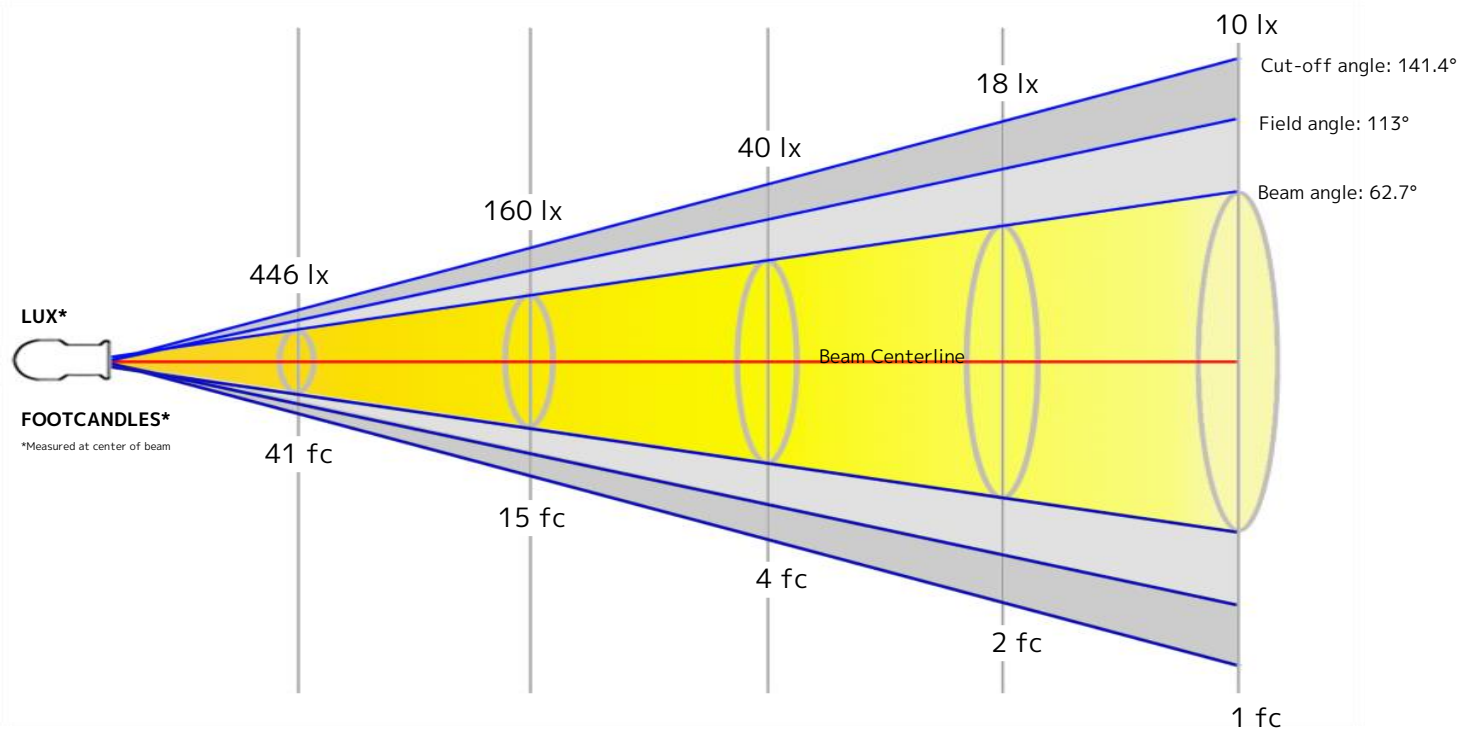
Power: 106.9 W

Supply Voltage: 119 V

Current: 0.903 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.7 m	6.1 m	12.2	18.3 m	24.4 m



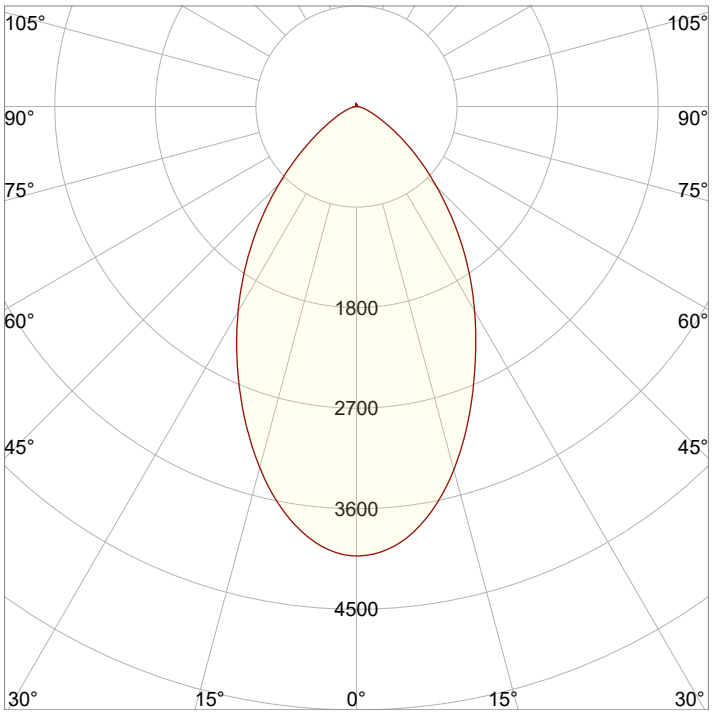
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12 ft	20 ft	40 ft	60 ft	80 ft

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	4012	1003	446	251	160	111	82	63	50	40	33	28	24	20	18	16	14	12	11	10
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	372.8	93.2	41.4	23.3	14.9	10.4	7.6	5.8	4.6	3.7	3.1	2.6	2.2	1.9	1.7	1.5	1.3	1.2	1	0.9

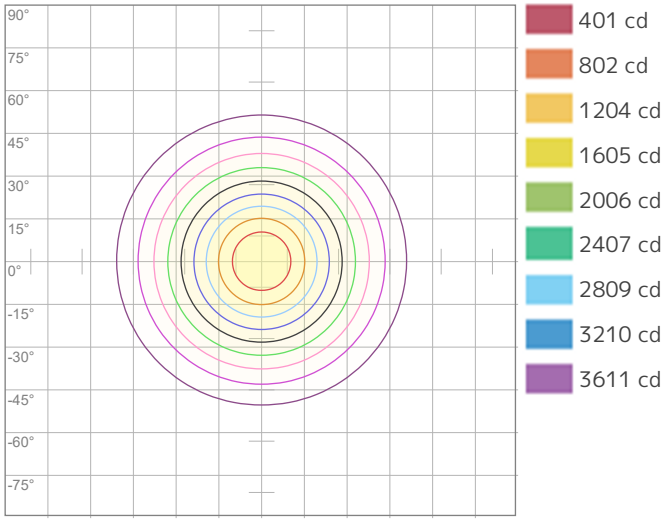
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
62.7°
Field Angle - 10%
113°
Cutoff Angle - 2.5%
141.4°

ISO Diagrams

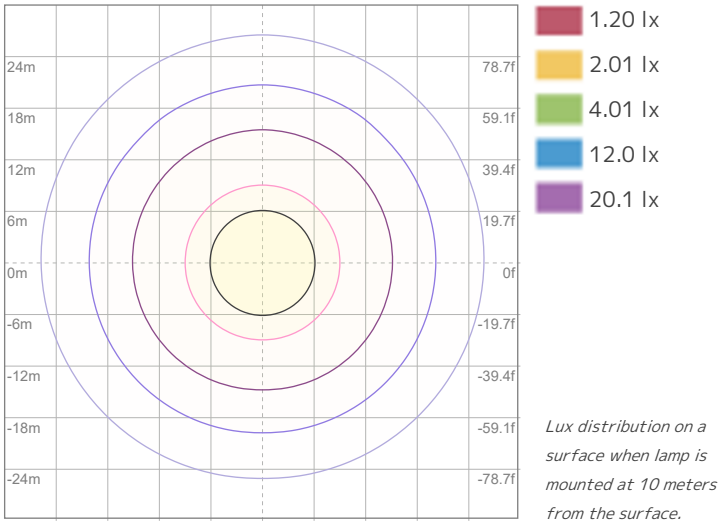


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 4012 cd



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

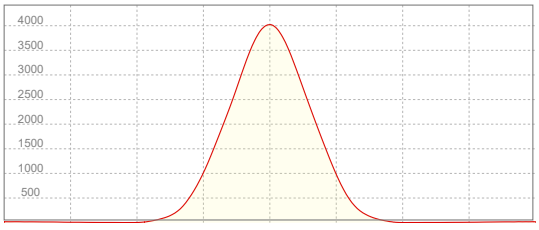
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 40.1 lx

Linear Distribution



Peak Candela
4017 cd

Calculate Center Beam Intensities

lux = 4017 / distance(m)^2

fc = 4017 / distance(ft)^2

Measurement Date: 8/12/2024

Key Measurements

Output

Total Lumen Output: 5594 lm

Peak Intensity: 4446 cd

Beam

Beam Angle (50%): 62.8°

Field Angle (10%): 113.2°

Cutoff Angle (2.5%): 142°

Color

Color Temperature: 3171 K

CRI: 92.7

TLCI: 85

TM30 R_F: 92.2

TM30 R_g: 106.6

Power Details

Efficacy: 50 Lumen/Watt

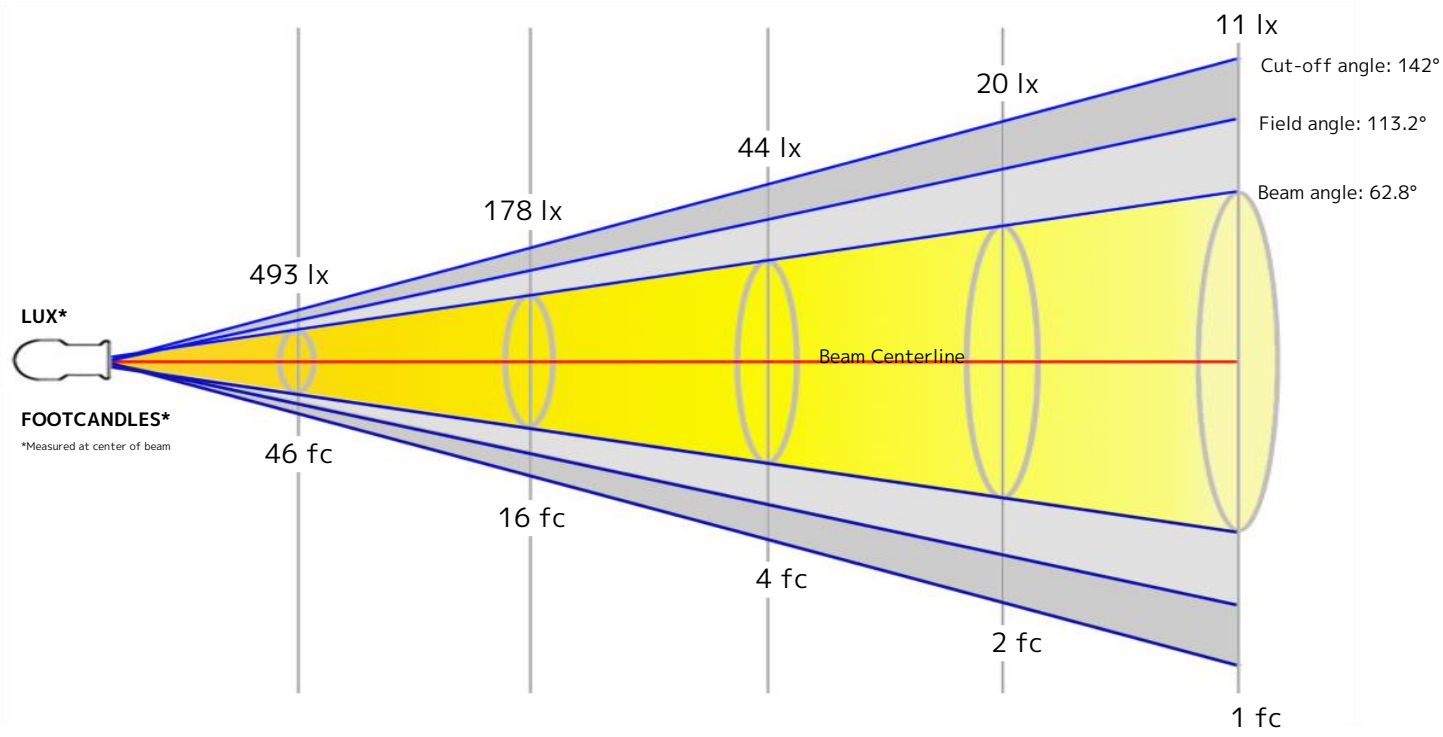
Power: 111.9 W

Supply Voltage: 119 V

Current: 0.943 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.7 m	6.1 m	12.2	18.3 m	24.4 m



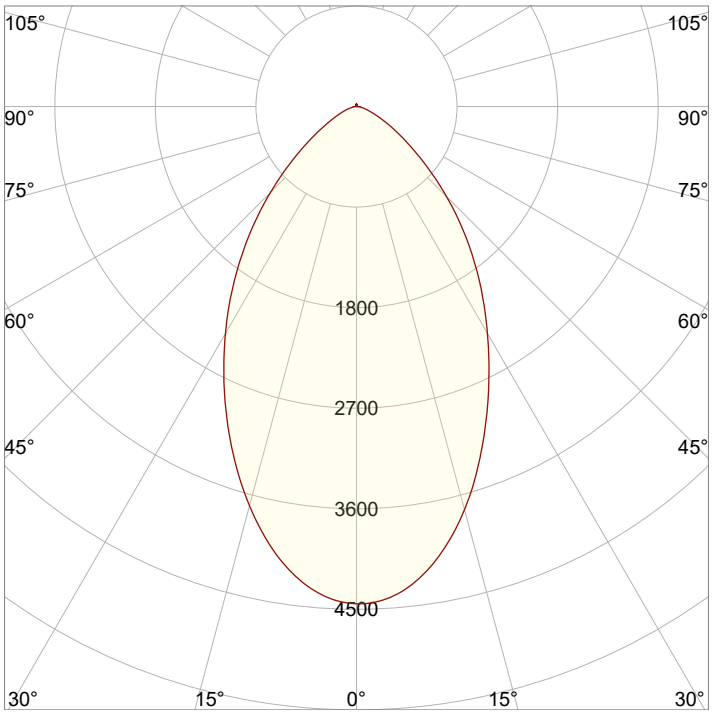
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12 ft	20 ft	40 ft	60.1 ft	80.1 ft

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	4439	1110	493	277	178	123	91	69	55	44	37	31	26	23	20	17	15	14	12	11
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	412.4	103.1	45.8	25.8	16.5	11.5	8.4	6.4	5.1	4.1	3.4	2.9	2.4	2.1	1.8	1.6	1.4	1.3	1.1	1

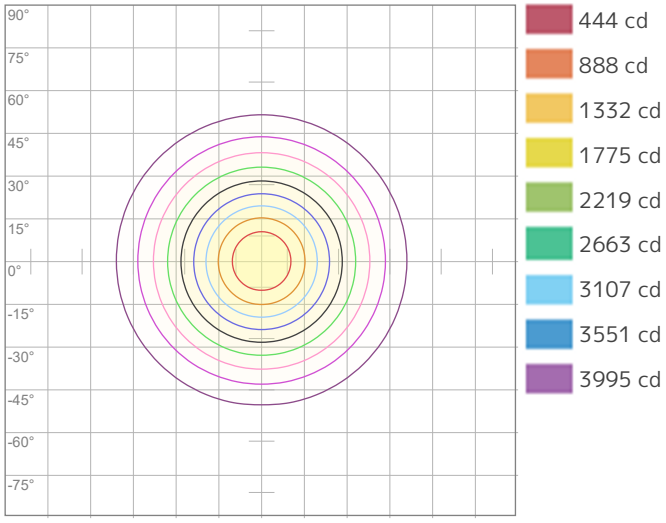
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
62.8°
Field Angle - 10%
113.2°
Cutoff Angle - 2.5%
142°

ISO Diagrams

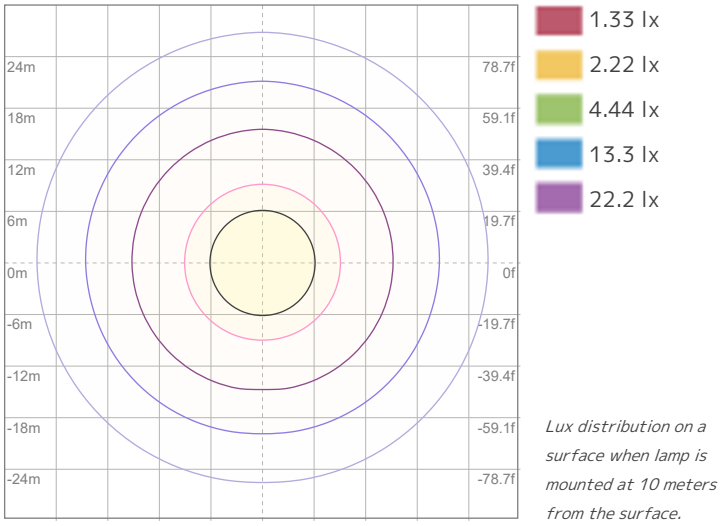


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 4439 cd



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

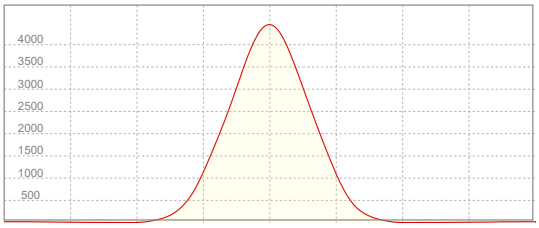
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 44.4 lx

Linear Distribution



Peak Candela
4446 cd

Calculate Center Beam Intensities

lux = 4446 / distance(m)^2

fc = 4446 / distance(ft)^2

Measurement Date: 8/12/2024

Key Measurements

Output

Total Lumen Output: 6389 lm

Peak Intensity: 5048 cd

Beam

Beam Angle (50%): 63.3°

Field Angle (10%): 113.9°

Cutoff Angle (2.5%): 142.1°

Color

Color Temperature: 4471 K

CRI: 92.1

TLCI: 79

TM30 R_F: 89.9

TM30 R_g: 106.8

Power Details

Efficacy: 52 Lumen/Watt

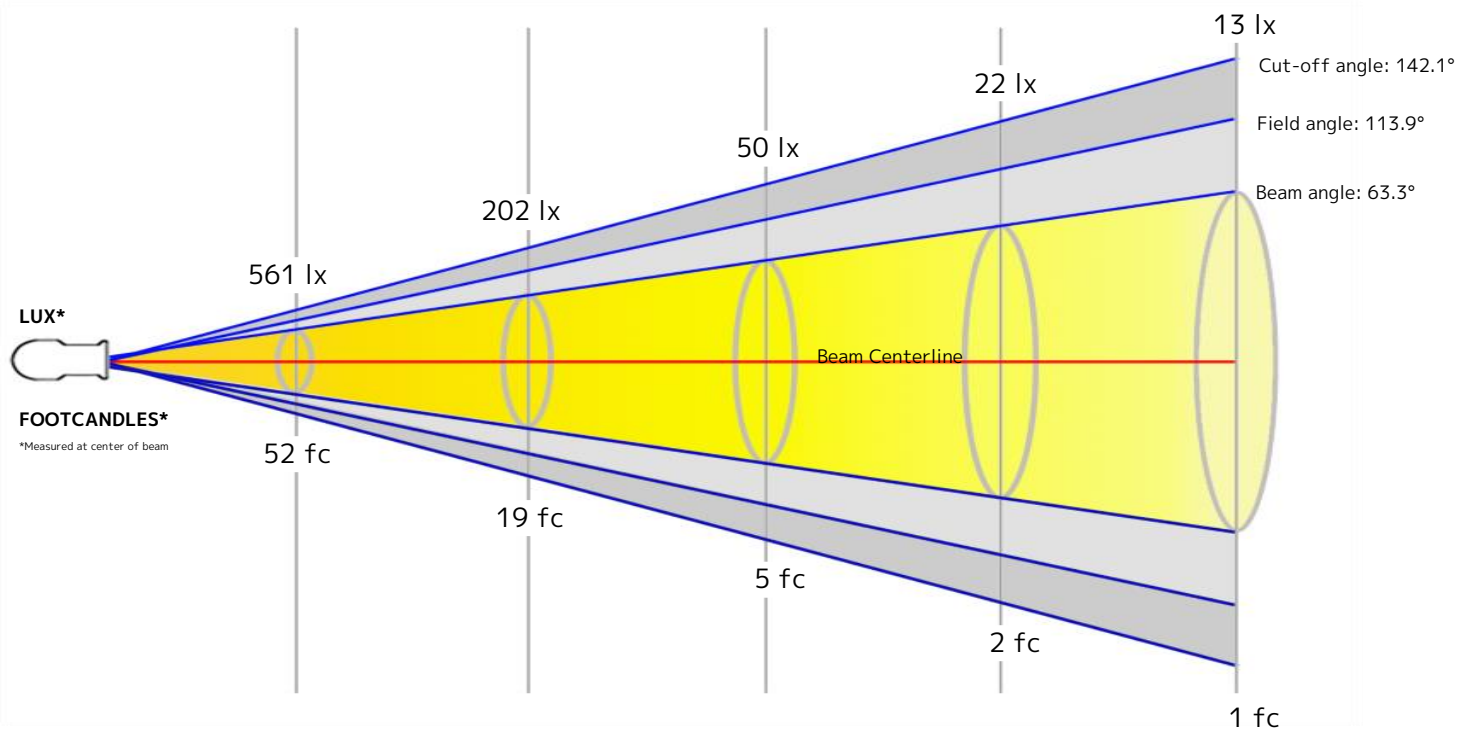
Power: 123.9 W

Supply Voltage: 118 V

Current: 1.05 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.7 m	6.2 m	12.3	18.5 m	24.7 m



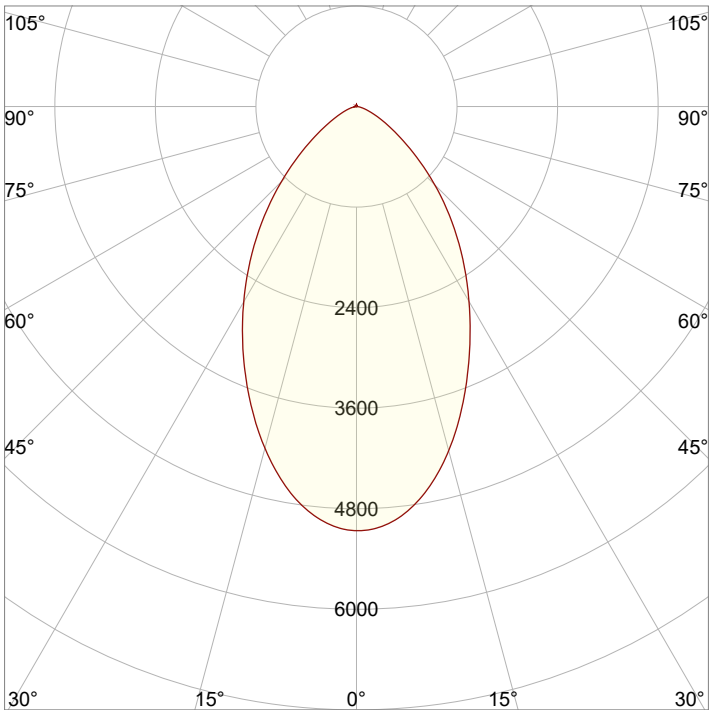
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12.1 ft	20.2 ft	40.4 ft	60.7 ft	80.9 ft

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	5047	1262	561	315	202	140	103	79	62	50	42	35	30	26	22	20	17	16	14	13
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	468.9	117.2	52.1	29.3	18.8	13	9.6	7.3	5.8	4.7	3.9	3.3	2.8	2.4	2.1	1.8	1.6	1.4	1.3	1.2

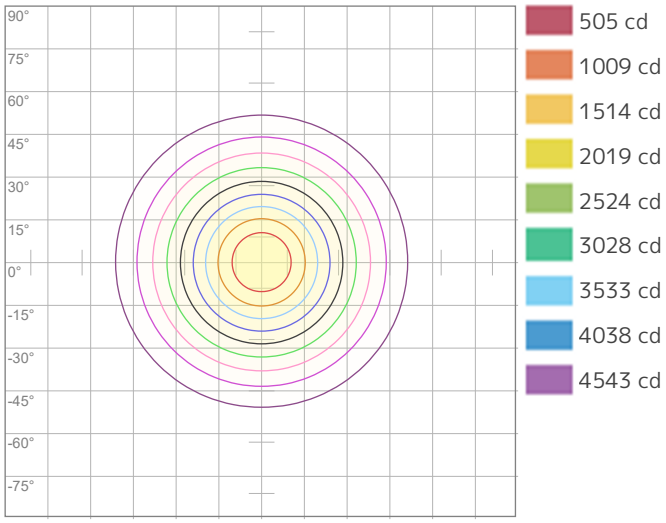
Measurement Date: 8/13/2024

Angular Distribution



Beam Angle - 50%
63.3°
Field Angle - 10%
113.9°
Cutoff Angle - 2.5%
142.1°

ISO Diagrams

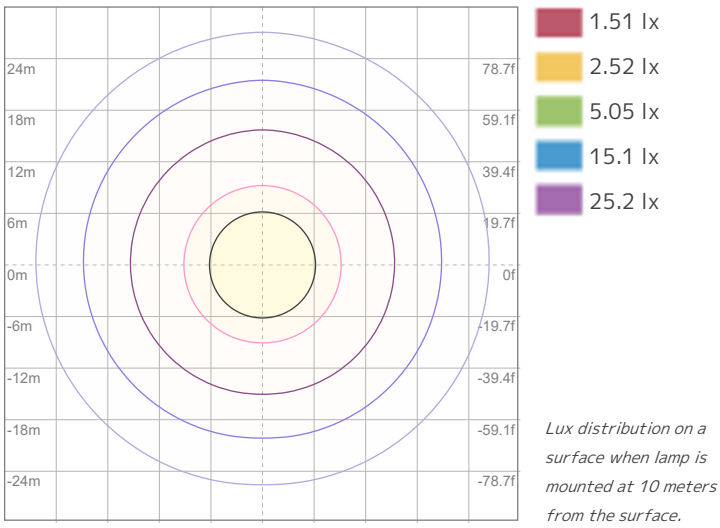


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 5047 cd



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

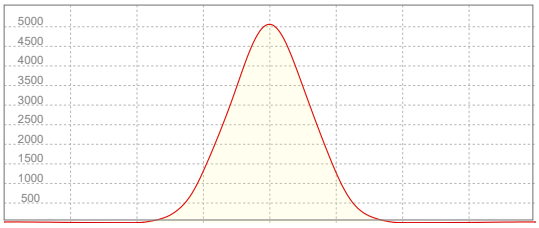
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 50.5 lx

Linear Distribution



Peak Candela

5048 cd

Calculate Center Beam Intensities

lux = 5048 / distance(m)^2

fc = 5048 / distance(ft)^2

Measurement Date: 8/13/2024

Key Measurements

Output

Total Lumen Output: 6925 lm

Peak Intensity: 5469 cd

Beam

Beam Angle (50%): 63.3°

Field Angle (10%): 113.9°

Cutoff Angle (2.5%): 142.2°

Color

Color Temperature: 6495 K

CRI: 89.2

TLCI: 84

TM30 R_F: 88.3

TM30 R_g: 107.1

Power Details

Efficacy: 48 Lumen/Watt

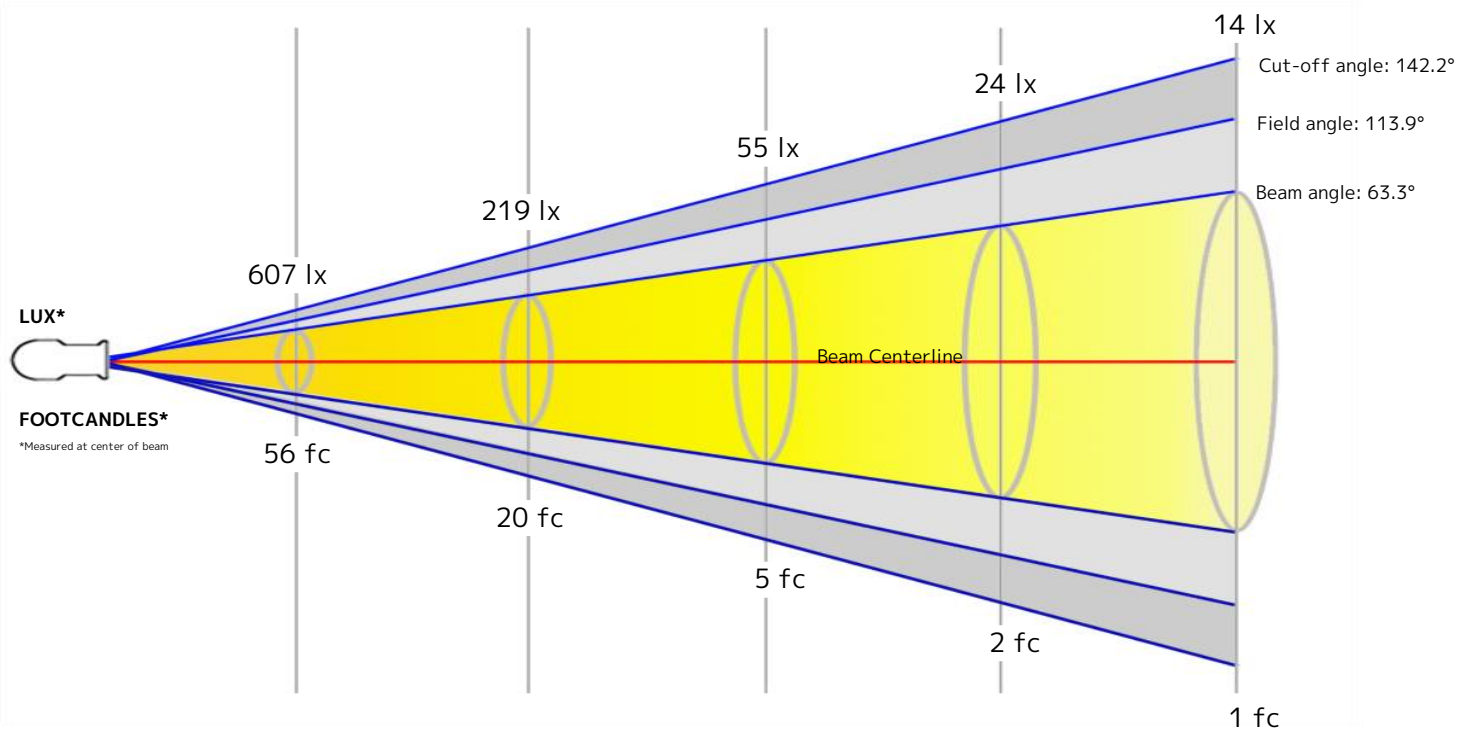
Power: 143.2 W

Supply Voltage: 118 V

Current: 1.21 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.7 m	6.2 m	12.3	18.5 m	24.7 m



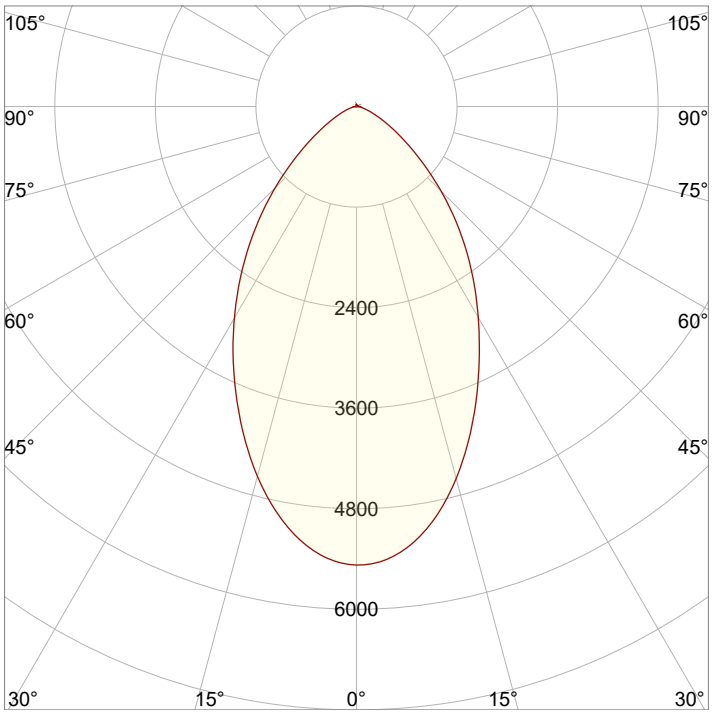
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12.1 ft	20.2 ft	40.4 ft	60.7 ft	80.9 ft

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	5465	1366	607	342	219	152	112	85	67	55	45	38	32	28	24	21	19	17	15	14
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	507.7	126.9	56.4	31.7	20.3	14.1	10.4	7.9	6.3	5.1	4.2	3.5	3	2.6	2.3	2	1.8	1.6	1.4	1.3

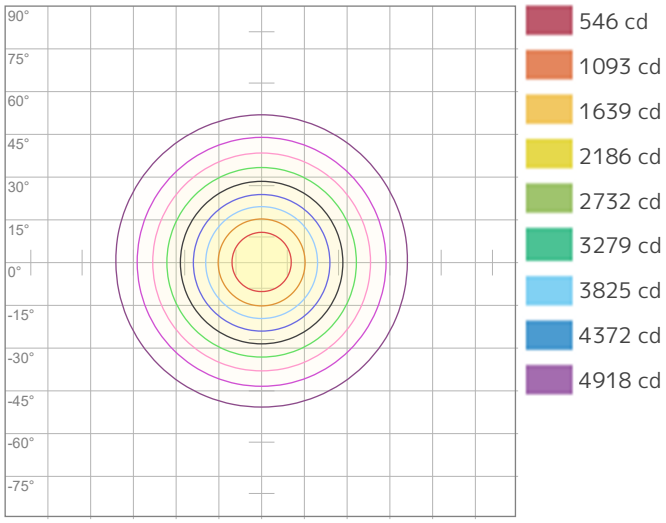
Measurement Date: 8/13/2024

Angular Distribution



Beam Angle - 50%
63.3°
Field Angle - 10%
113.9°
Cutoff Angle - 2.5%
142.2°

ISO Diagrams

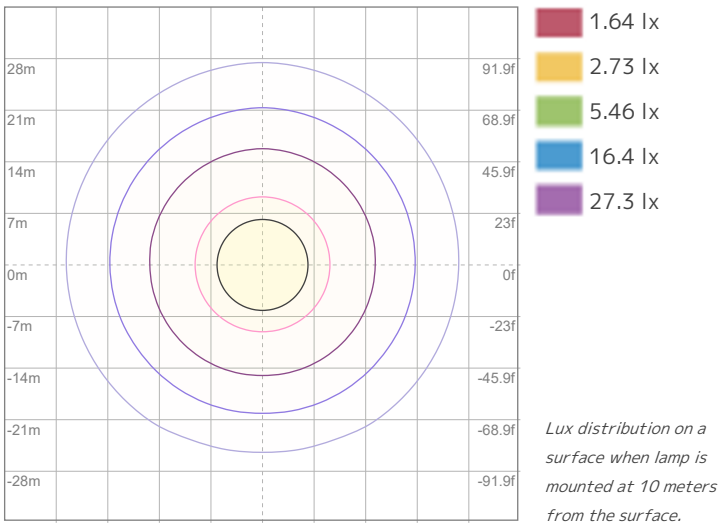


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 5465 cd



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

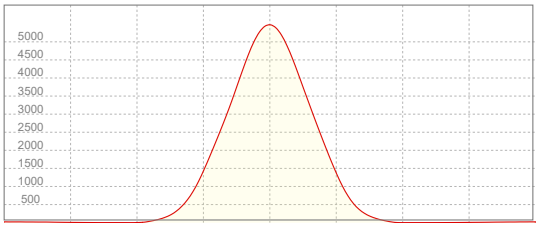
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 54.6 lx

Linear Distribution



Peak Candela

5469 cd

Calculate Center Beam Intensities

lux = 5469 / distance(m)^2

fc = 5469 / distance(ft)^2

Measurement Date: 8/13/2024

Key Measurements

Output

Total Lumen Output: 6638 lm

Peak Intensity: 5239 cd

Beam

Beam Angle (50%): 63.3°

Field Angle (10%): 113.9°

Cutoff Angle (2.5%): 142.3°

Color

Color Temperature: 8486 K

CRI: 88.8

TLCI: 86

TM30 R_F: 87.1

TM30 R_g: 105.6

Power Details

Efficacy: 46 Lumen/Watt

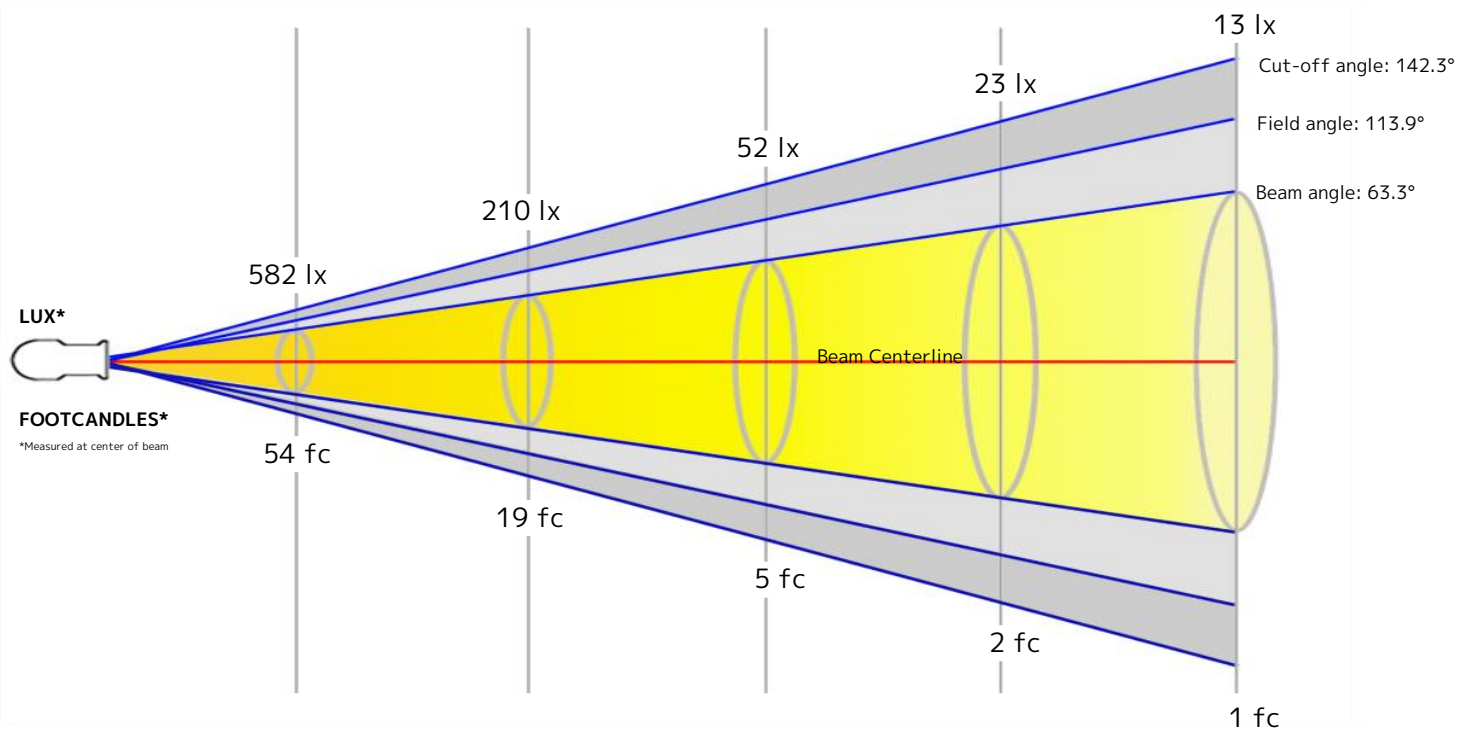
Power: 142.9 W

Supply Voltage: 118 V

Current: 1.21 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.7 m	6.2 m	12.3	18.5 m	24.6 m



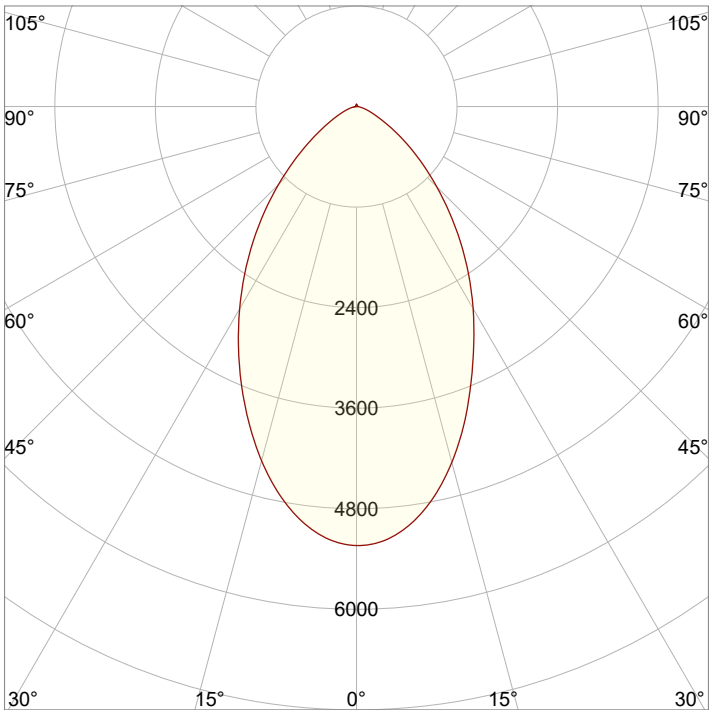
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12.1 ft	20.2 ft	40.4 ft	60.6 ft	80.8 ft

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	5238	1310	582	327	210	146	107	82	65	52	43	36	31	27	23	20	18	16	15	13
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	486.6	121.7	54.1	30.4	19.5	13.5	9.9	7.6	6	4.9	4	3.4	2.9	2.5	2.2	1.9	1.7	1.5	1.3	1.2

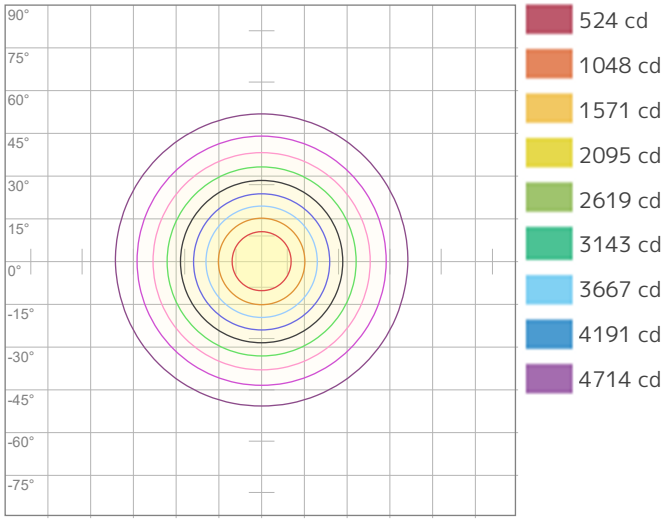
Measurement Date: 8/13/2024

Angular Distribution



Beam Angle - 50%
63.3°
Field Angle - 10%
113.9°
Cutoff Angle - 2.5%
142.3°

ISO Diagrams

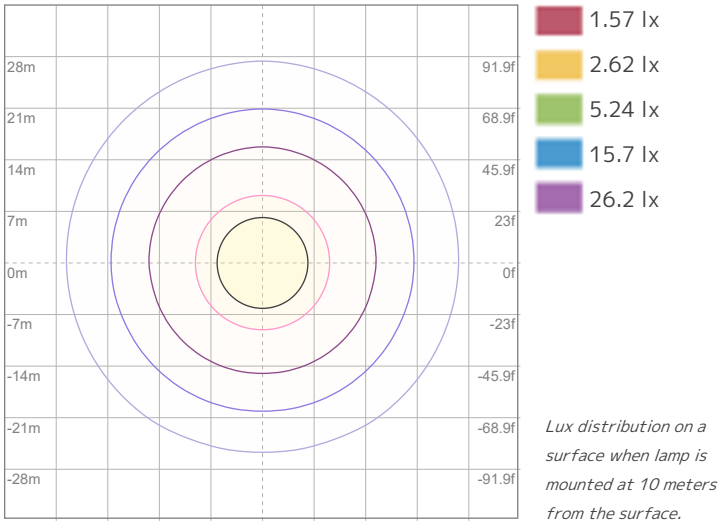


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 5238 cd



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

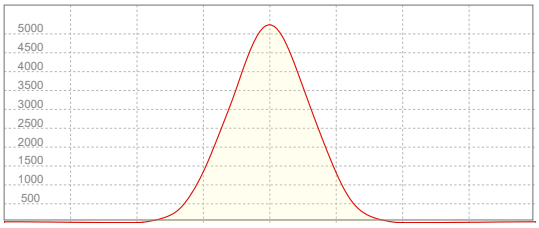
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 52.4 lx

Linear Distribution



Peak Candela

5239 cd

Calculate Center Beam Intensities

$lux = 5239 / distance(m)^2$

$fc = 5239 / distance(ft)^2$

Measurement Date: 8/13/2024

Key Measurements

Output

Total Lumen Output: 6926 lm

Peak Intensity: 4031 cd

Beam

Beam Angle (50%): 82.3°

Field Angle (10%): 118°

Cutoff Angle (2.5%): 149.3°

Color

Color Temperature: 6987 K

CRI: 65.7

TLCI: 73

TM30 R_F: 77.5

TM30 R_g: 121.1

Power Details

Efficacy: 40 Lumen/Watt

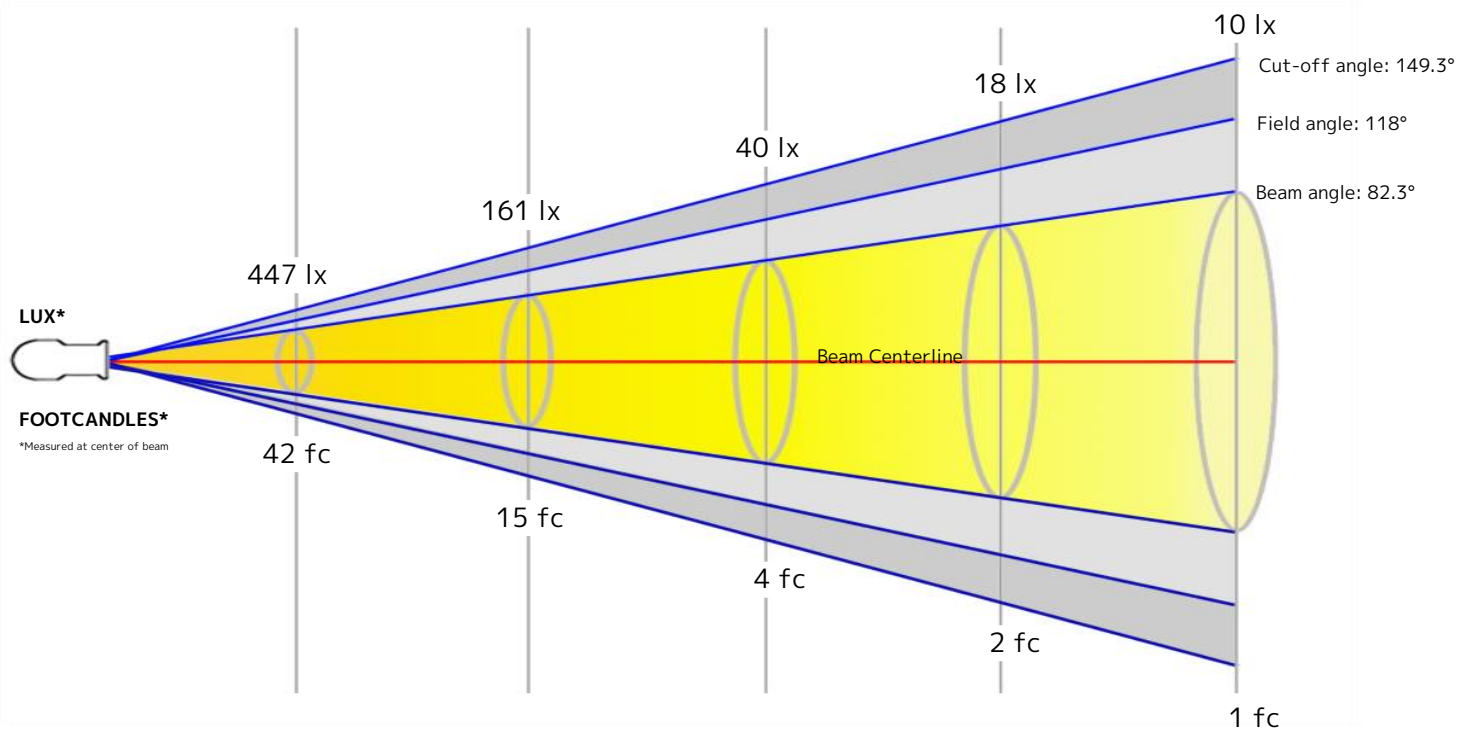
Power: 173.5 W

Supply Voltage: 118 V

Current: 1.47 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.2 m	8.7 m	17.5	26.2 m	35 m



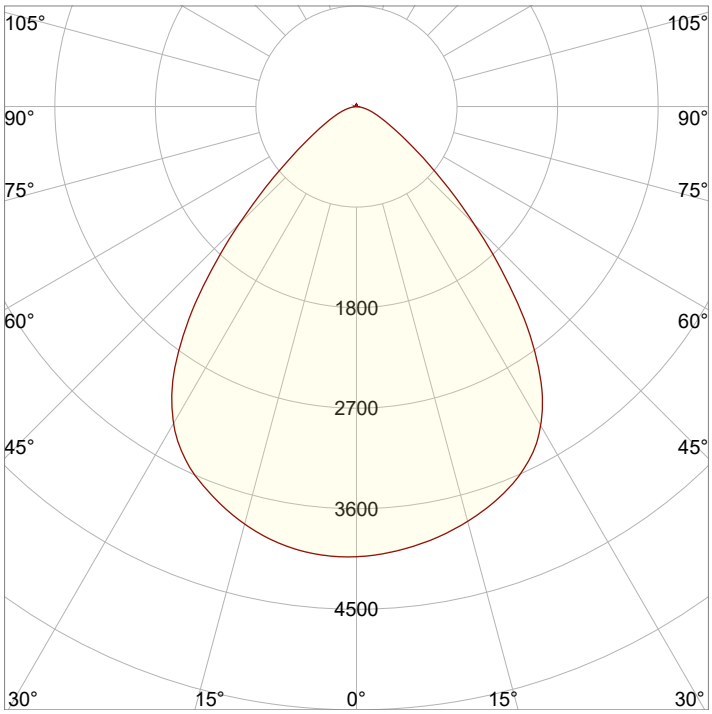
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.1 ft	28.7 ft	57.3 ft	86 ft	114.7 ft

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	4025	1006	447	252	161	112	82	63	50	40	33	28	24	21	18	16	14	12	11	10
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	374	93.5	41.6	23.4	15	10.4	7.6	5.8	4.6	3.7	3.1	2.6	2.2	1.9	1.7	1.5	1.3	1.2	1	0.9

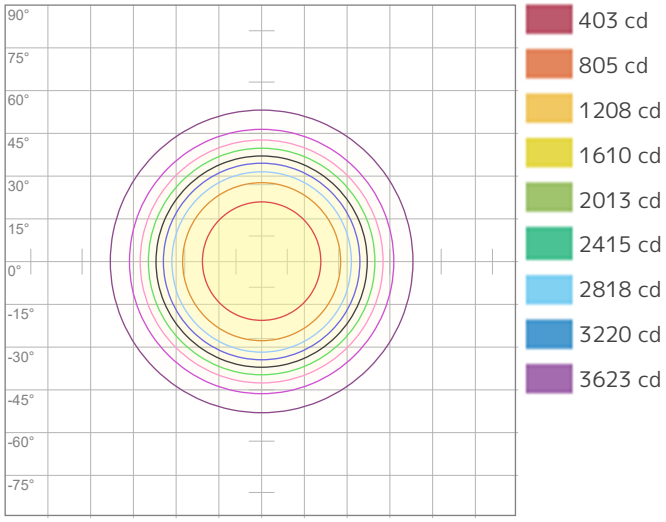
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
82.3°
Field Angle - 10%
118°
Cutoff Angle - 2.5%
149.3°

ISO Diagrams

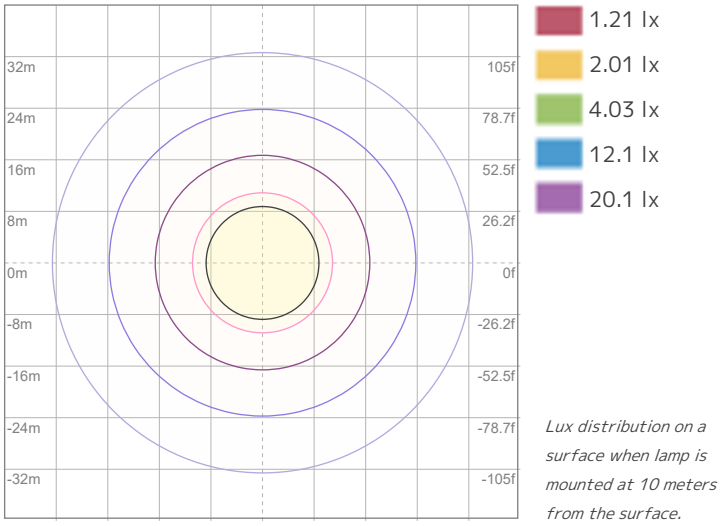


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 4025 cd



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

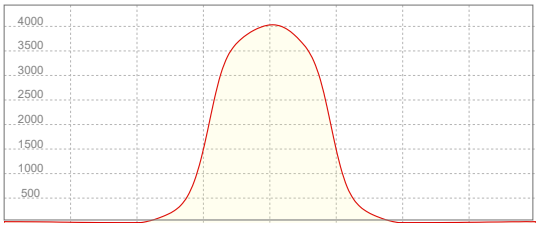
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 40.3 lx

Linear Distribution



Peak Candela

4031 cd

Calculate Center Beam Intensities

lux = 4031 / distance(m)^2

fc = 4031 / distance(ft)^2

Measurement Date: 8/12/2024

Key Measurements

Output

Total Lumen Output: 7200 lm

Peak Intensity: 4184 cd

Beam

Beam Angle (50%): 82.6°

Field Angle (10%): 117.7°

Cutoff Angle (2.5%): 149.4°

Color

Color Temperature: 7087 K

CRI: 62.4

TLCI: 69

TM30 R_F: 75.4

TM30 R_g: 123.0

Power Details

Efficacy: 35 Lumen/Watt

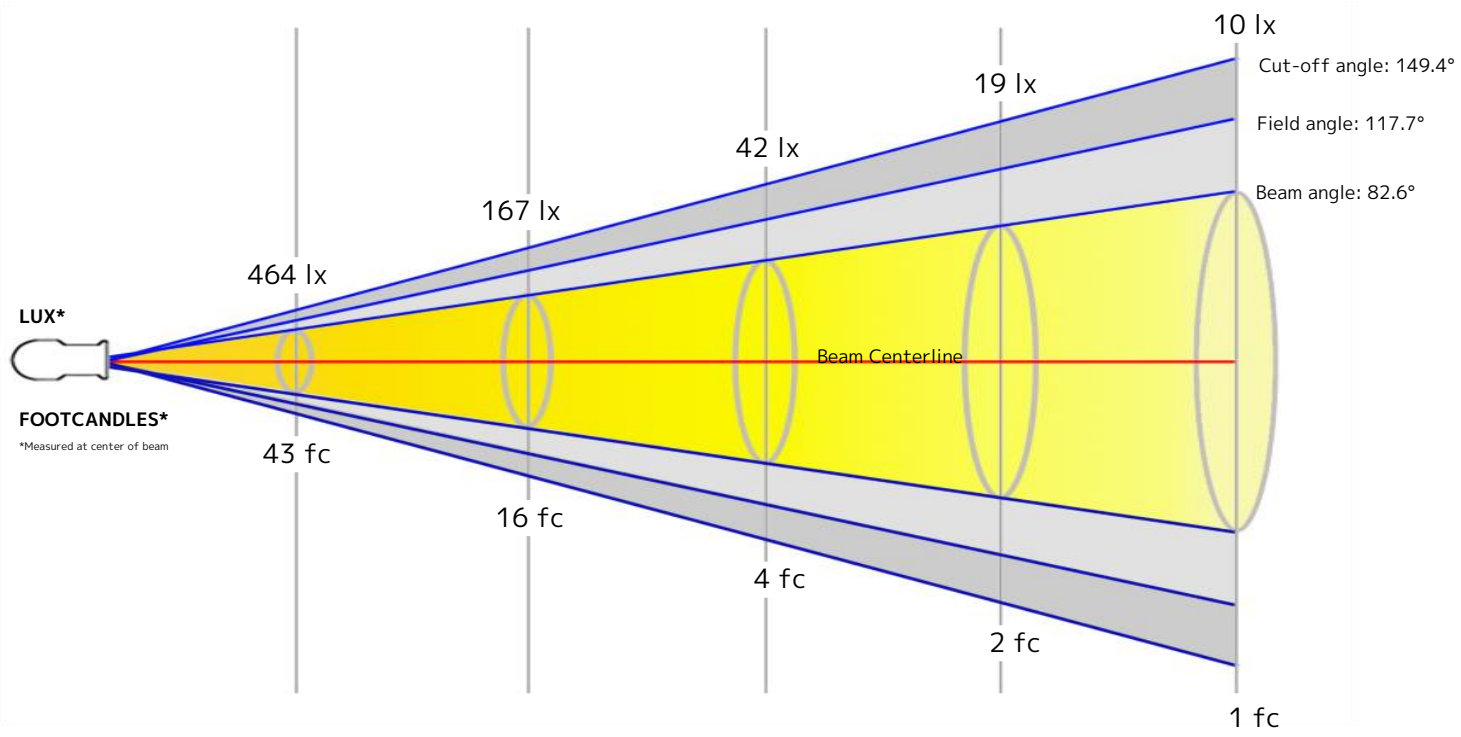
Power: 204.2 W

Supply Voltage: 117 V

Current: 1.74 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6	26.3 m	35.1 m



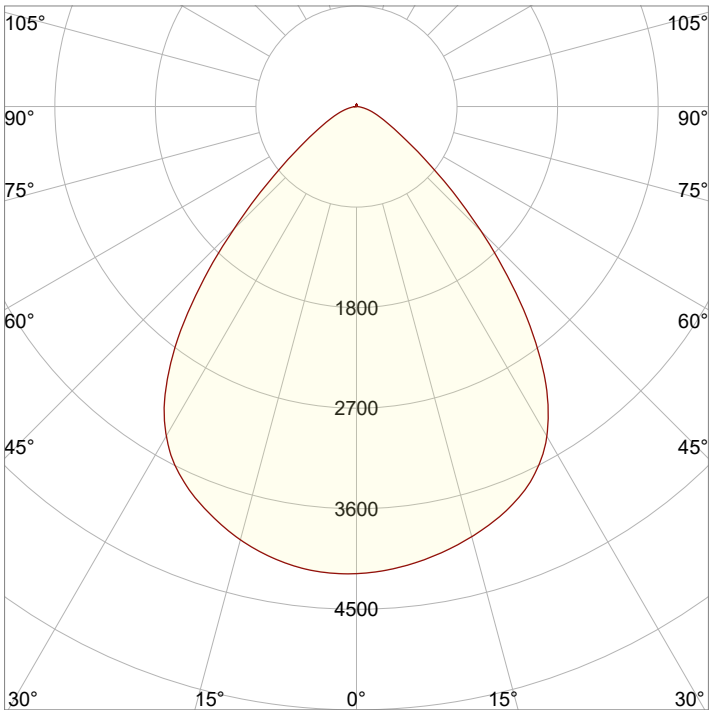
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.2 ft	28.8 ft	57.6 ft	86.4 ft	115.2 ft

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	4177	1044	464	261	167	116	85	65	52	42	35	29	25	21	19	16	14	13	12	10
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	388	97	43.1	24.3	15.5	10.8	7.9	6.1	4.8	3.9	3.2	2.7	2.3	2	1.7	1.5	1.3	1.2	1.1	1

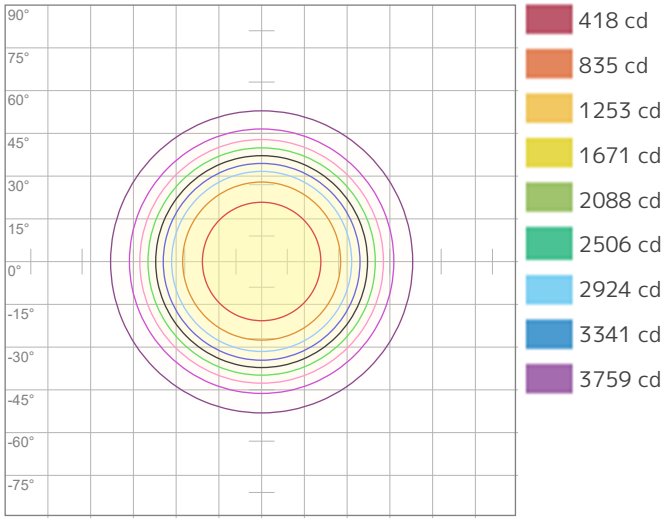
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
82.6°
Field Angle - 10%
117.7°
Cutoff Angle - 2.5%
149.4°

ISO Diagrams

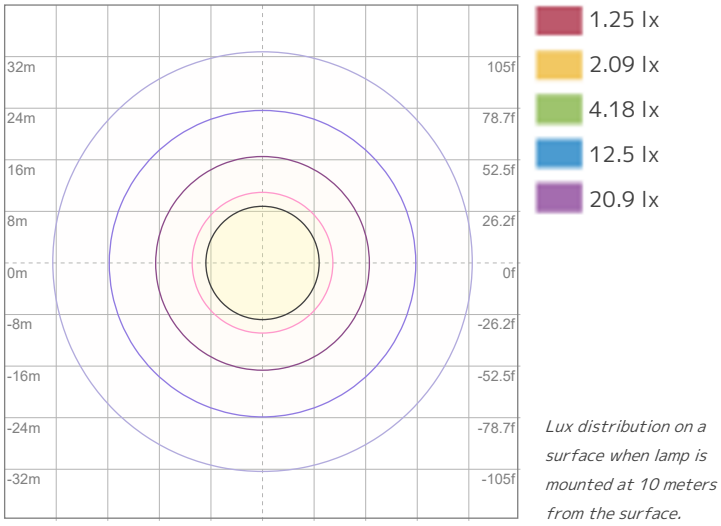


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 4177 cd



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

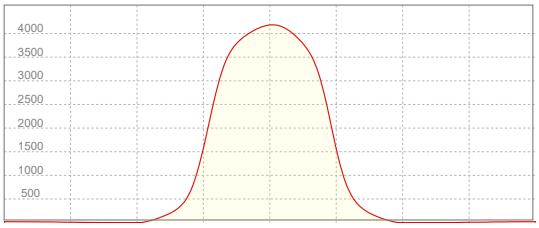
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 41.8 lx

Linear Distribution



Peak Candela

4184 cd

Calculate Center Beam Intensities

$lux = 4184 / distance(m)^2$

$fc = 4184 / distance(ft)^2$

Measurement Date: 8/12/2024

Six+ Bar L (100°, 2400K)

Key Measurements

Output

Total Lumen Output: 5495 lm

Peak Intensity: 3211 cd

Beam

Beam Angle (50%): 82.3°

Field Angle (10%): 117.4°

Cutoff Angle (2.5%): 148.7°

Color

Color Temperature: 2473 K

CRI: 86.7

TLCI: 78

TM30 R_F: 89.5

TM30 R_g: 107.2

Power Details

Efficacy: 47 Lumen/Watt

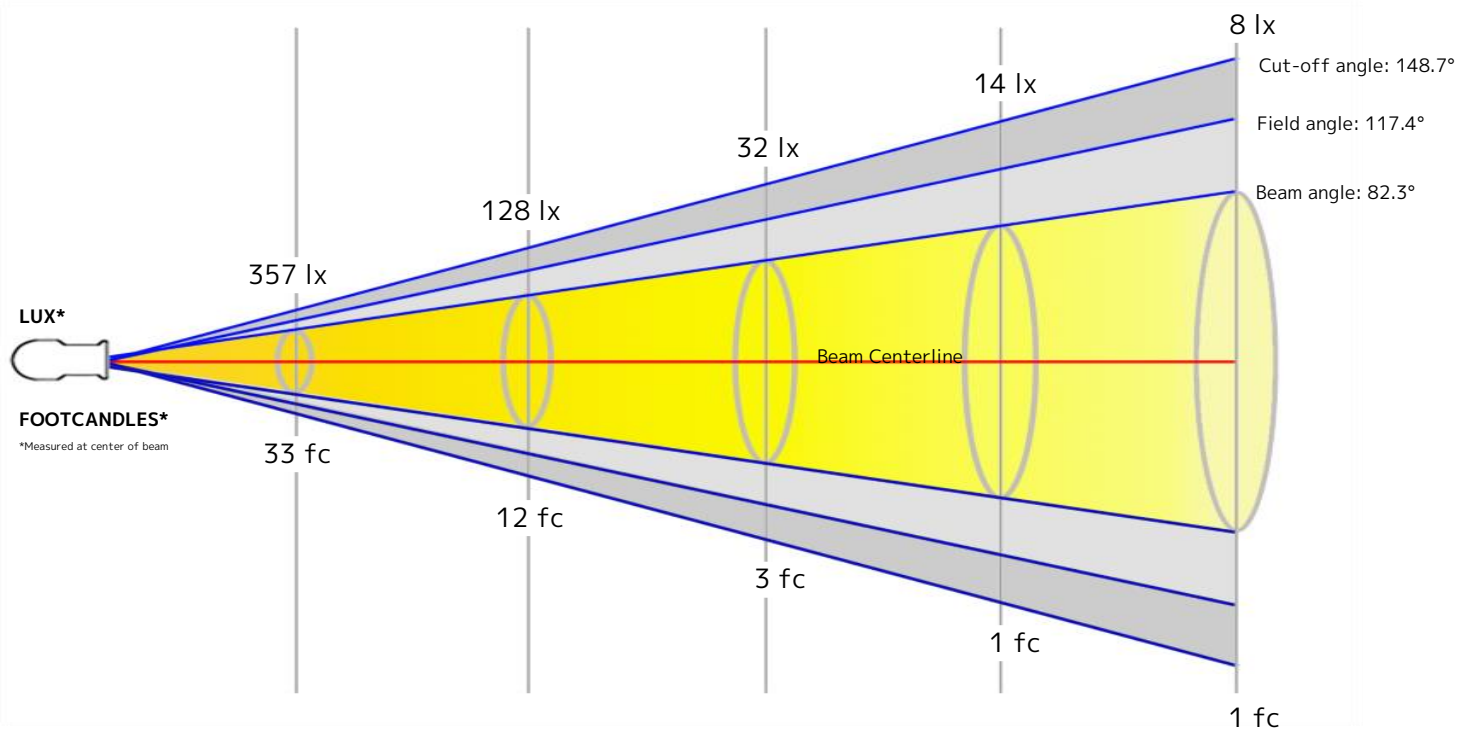
Power: 116.3 W

Supply Voltage: 119 V

Current: 0.984 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.2 m	8.7 m	17.5	26.2 m	35 m



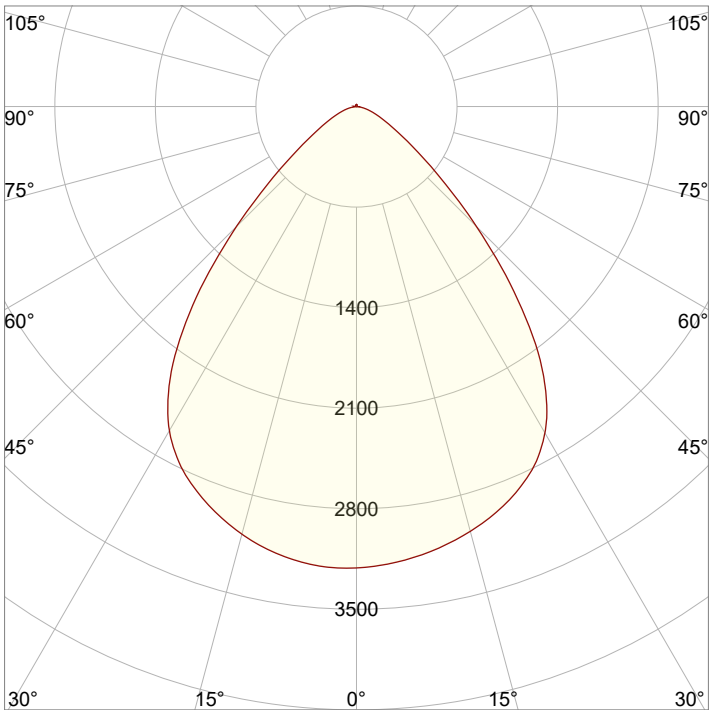
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.1 ft	28.7 ft	57.4 ft	86 ft	114.7 ft

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	3210	803	357	201	128	89	66	50	40	32	27	22	19	16	14	13	11	10	9	8
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	298.3	74.6	33.1	18.6	11.9	8.3	6.1	4.7	3.7	3	2.5	2.1	1.8	1.5	1.3	1.2	1	0.9	0.8	0.7

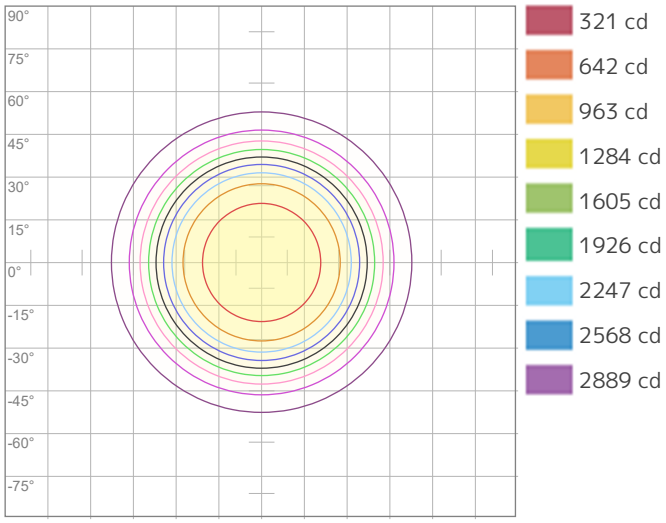
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
82.3°
Field Angle - 10%
117.4°
Cutoff Angle - 2.5%
148.7°

ISO Diagrams

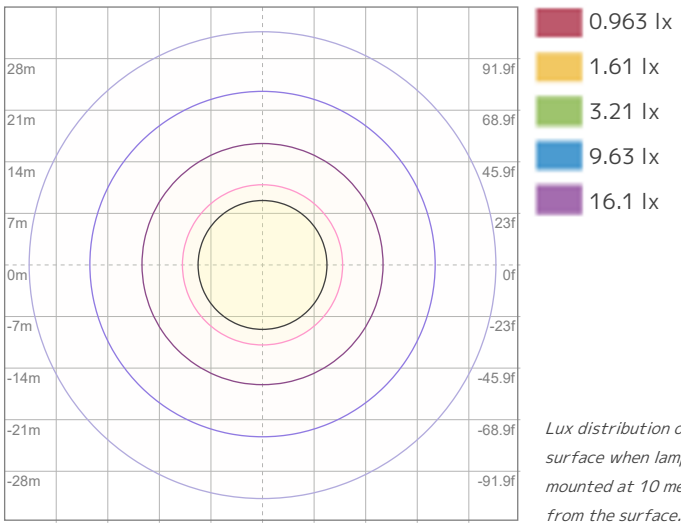


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 3210 cd



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

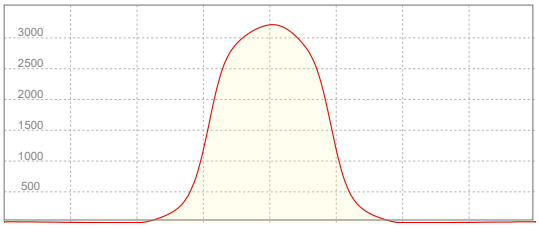
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 32.1 lx

Linear Distribution



Peak Candela

3211 cd

Calculate Center Beam Intensities

lux = 3211 / distance(m)^2

fc = 3211 / distance(ft)^2

Measurement Date: 8/12/2024

Key Measurements

Output

Total Lumen Output: 5566 lm

Peak Intensity: 3240 cd

Beam

Beam Angle (50%): 82.5°

Field Angle (10%): 118°

Cutoff Angle (2.5%): 149°

Color

Color Temperature: 3187 K

CRI: 92.6

TLCI: 82

TM30 R_F: 91.8

TM30 R_g: 106.6

Power Details

Efficacy: 49 Lumen/Watt

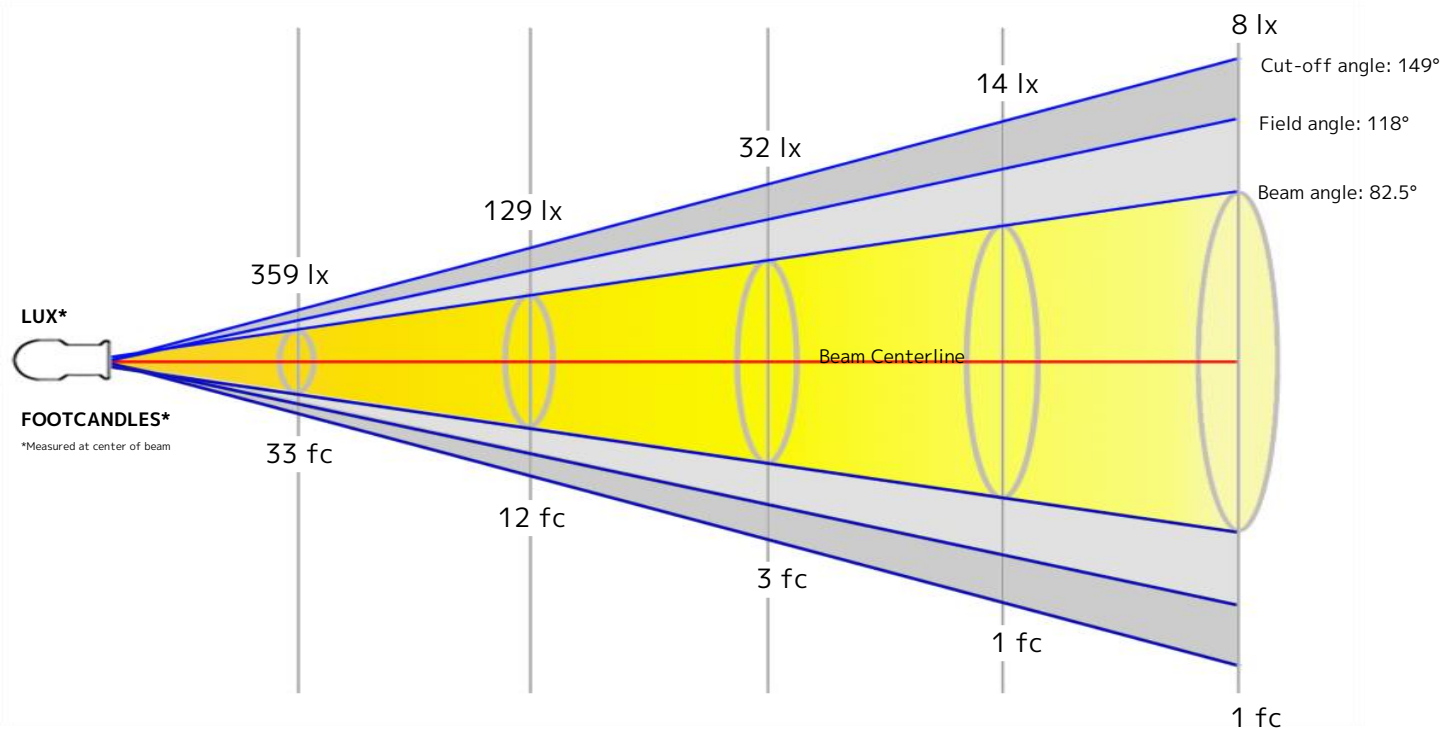
Power: 114 W

Supply Voltage: 118 V

Current: 0.967 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.5	26.3 m	35.1 m



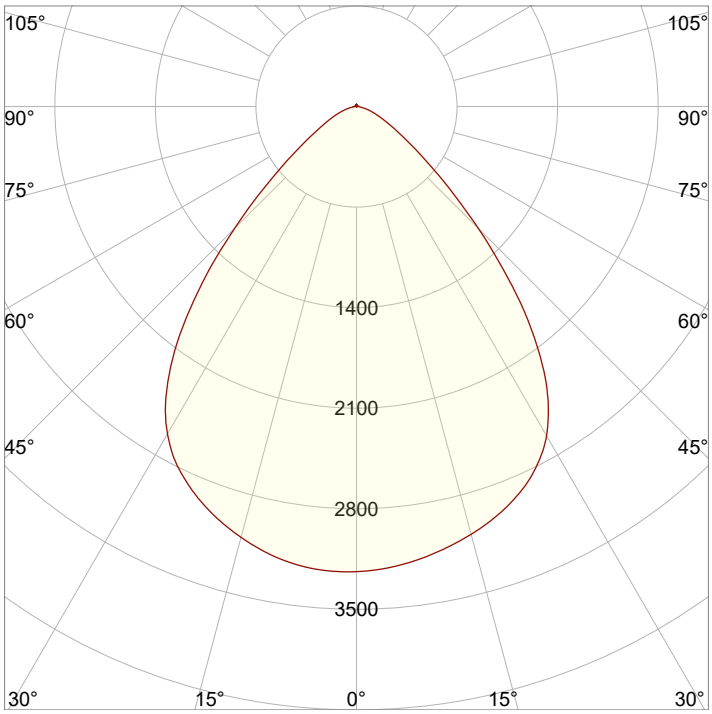
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.2 ft	28.8 ft	57.5 ft	86.3 ft	115.1 ft

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	3235	809	359	202	129	90	66	51	40	32	27	22	19	17	14	13	11	10	9	8
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	300.6	75.1	33.4	18.8	12	8.3	6.1	4.7	3.7	3	2.5	2.1	1.8	1.5	1.3	1.2	1	0.9	0.8	0.8

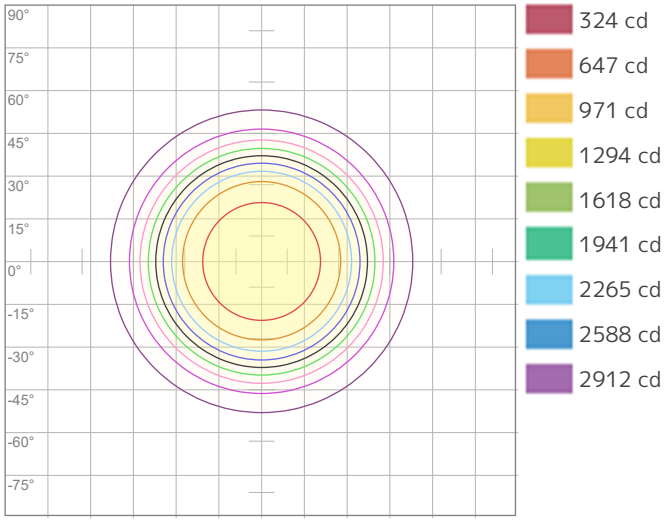
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
82.5°
Field Angle - 10%
118°
Cutoff Angle - 2.5%
149°

ISO Diagrams

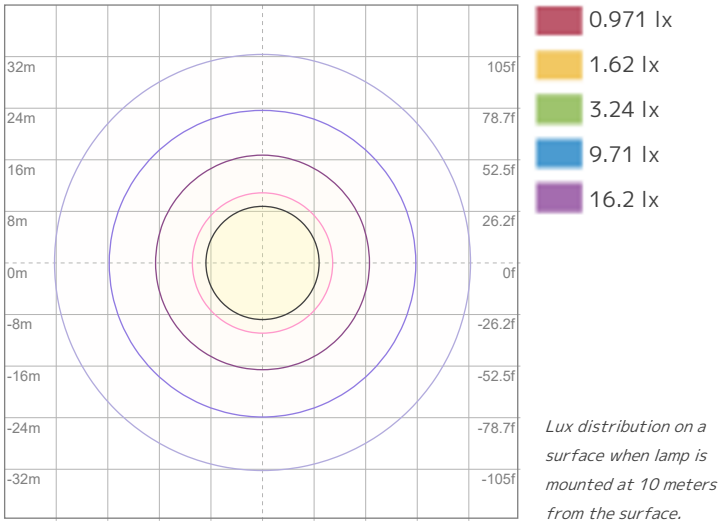


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 3235 cd



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

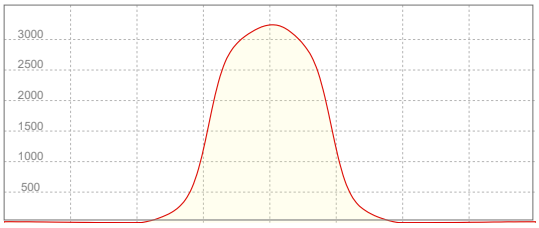
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 32.4 lx

Linear Distribution



Peak Candela

3240 cd

Calculate Center Beam Intensities

$lux = 3240 / distance(m)^2$

$fc = 3240 / distance(ft)^2$

Measurement Date: 8/12/2024

Six+ Bar L (100°, 4500K)

Key Measurements

Output

Total Lumen Output: 5598 lm

Peak Intensity: 3255 cd

Beam

Beam Angle (50%): 82.4°

Field Angle (10%): 117.7°

Cutoff Angle (2.5%): 149.7°

Color

Color Temperature: 4479 K

CRI: 92.3

TLCI: 83

TM30 R_F: 90.2

TM30 R_g: 106.6

Power Details

Efficacy: 47 Lumen/Watt

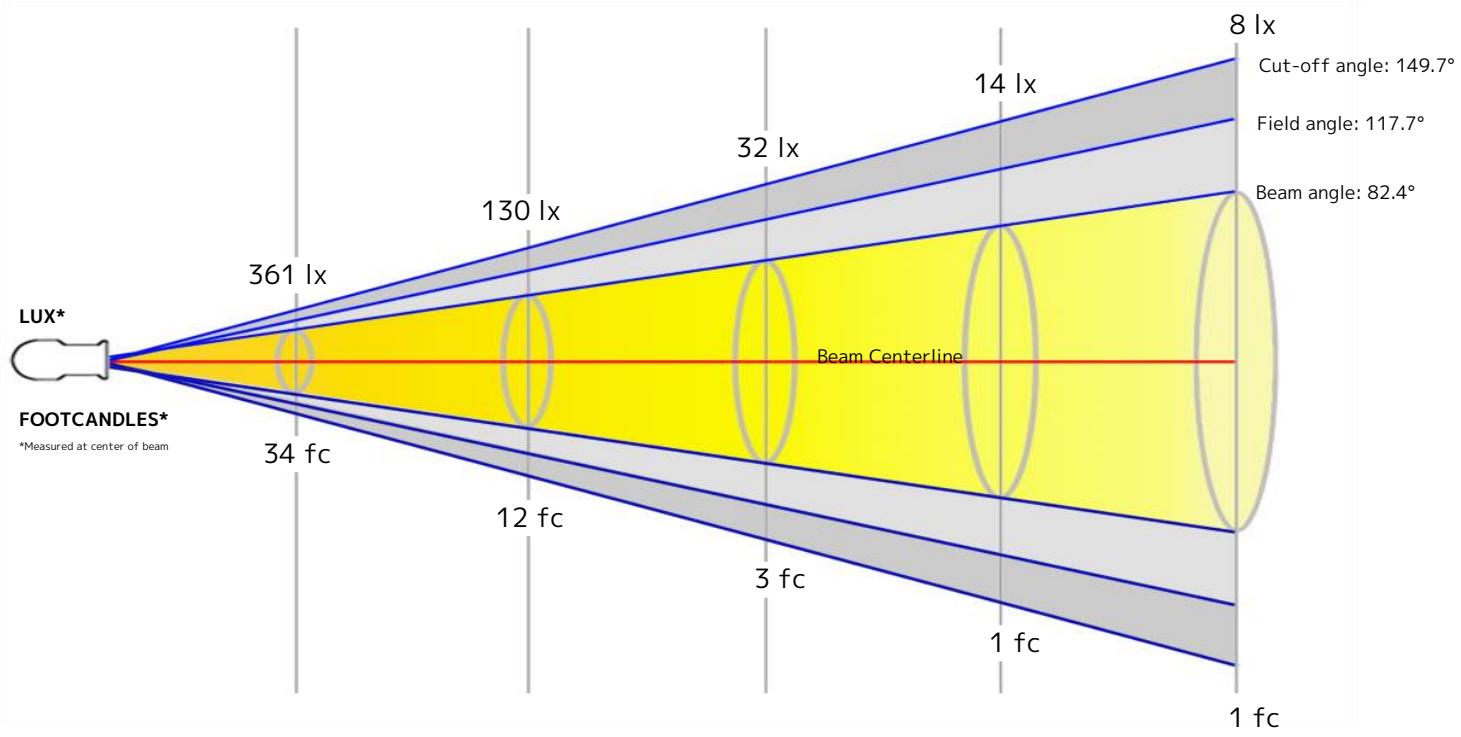
Power: 120.2 W

Supply Voltage: 118 V

Current: 1.03 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.5	26.3 m	35 m



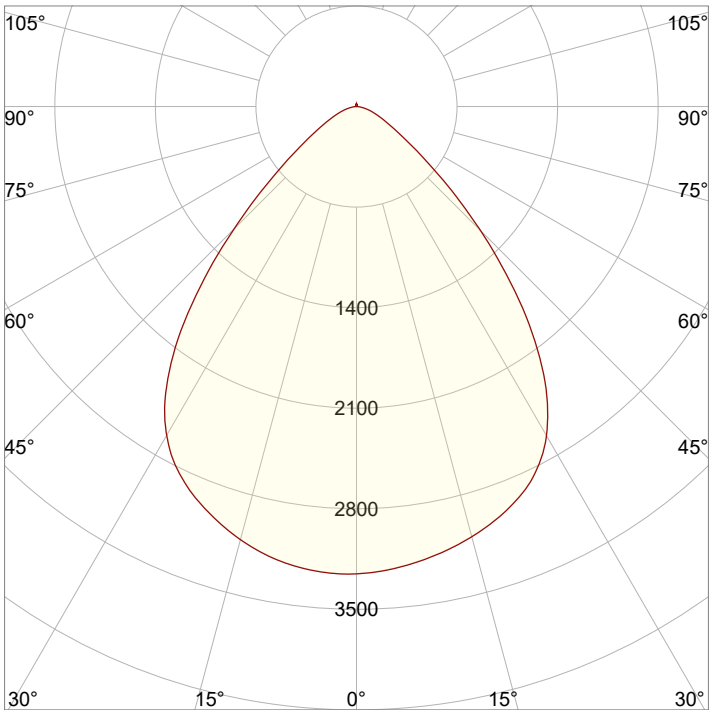
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.2 ft	28.7 ft	57.5 ft	86.2 ft	114.9 ft

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	3250	812	361	203	130	90	66	51	40	32	27	23	19	17	14	13	11	10	9	8
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	301.9	75.5	33.5	18.9	12.1	8.4	6.2	4.7	3.7	3	2.5	2.1	1.8	1.5	1.3	1.2	1	0.9	0.8	0.8

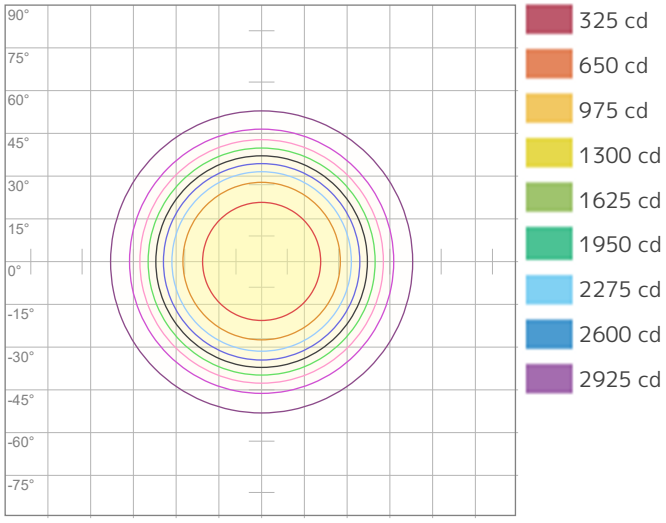
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
82.4°
Field Angle - 10%
117.7°
Cutoff Angle - 2.5%
149.7°

ISO Diagrams

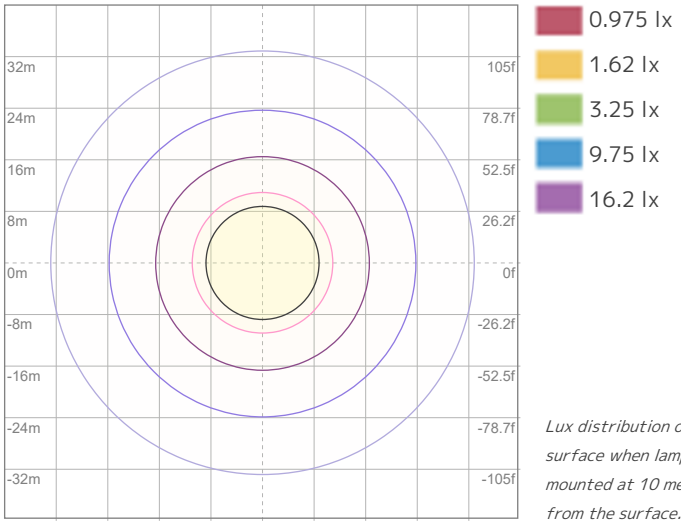


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 3250 cd



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

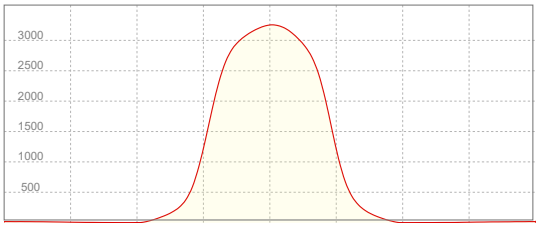
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 32.5 lx

Linear Distribution



Peak Candela

3255 cd

Calculate Center Beam Intensities

lux = 3255 / distance(m)^2

fc = 3255 / distance(ft)^2

Measurement Date: 8/12/2024

Key Measurements

Output

Total Lumen Output: 6116 lm

Peak Intensity: 3544 cd

Beam

Beam Angle (50%): 82.6°

Field Angle (10%): 117.8°

Cutoff Angle (2.5%): 149.8°

Color

Color Temperature: 6441 K

CRI: 89.8

TLCI: 86

TM30 R_F: 88.2

TM30 R_g: 106.9

Power Details

Efficacy: 45 Lumen/Watt

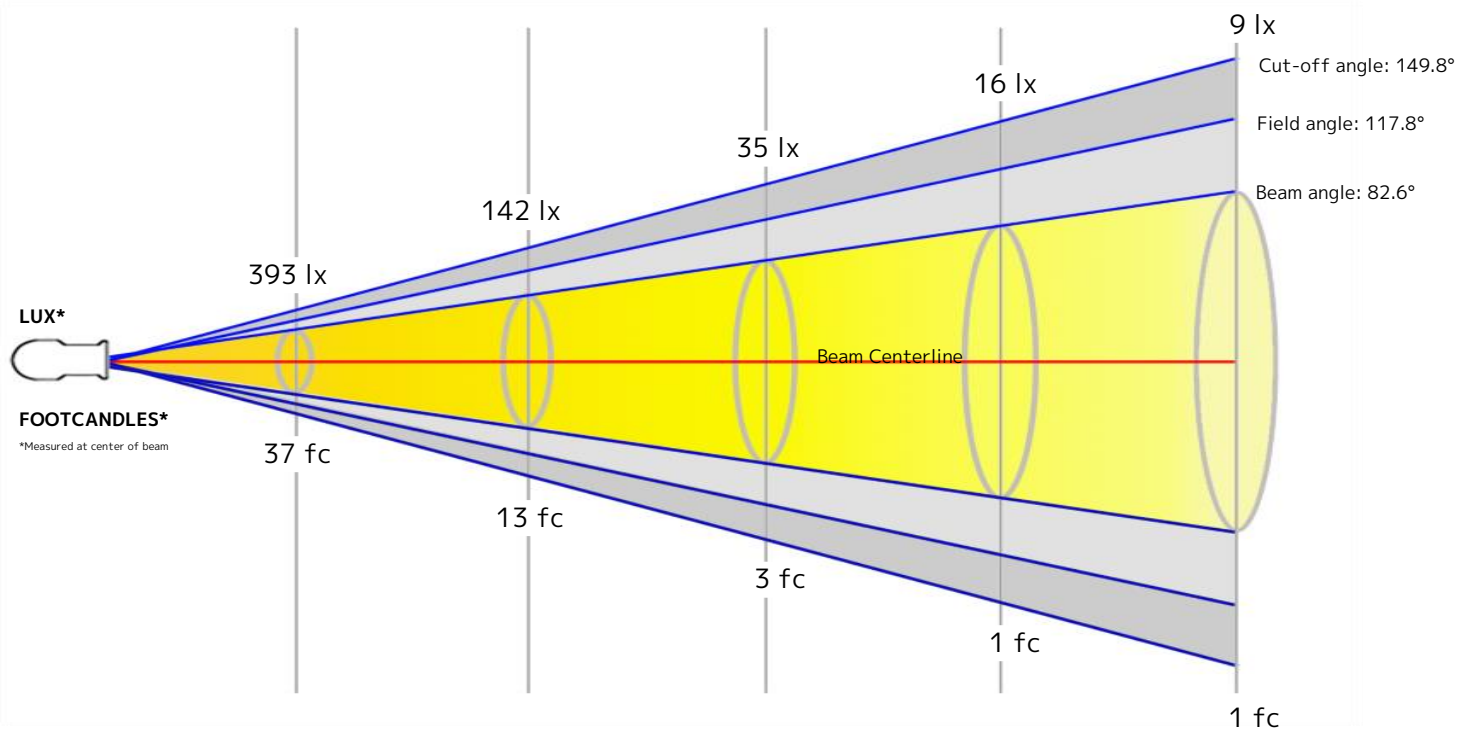
Power: 136.8 W

Supply Voltage: 118 V

Current: 1.17 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6	26.4 m	35.1 m



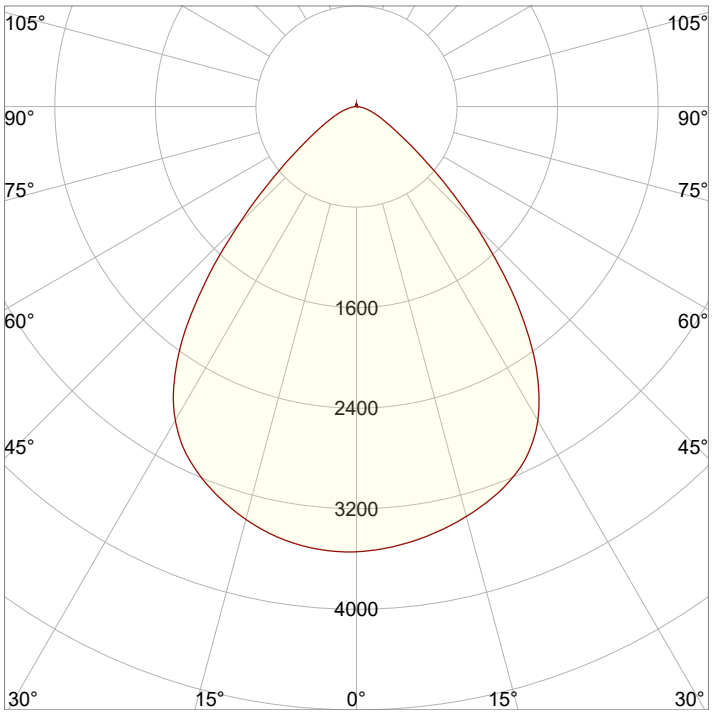
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.2 ft	28.8 ft	57.6 ft	86.4 ft	115.2 ft

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	3540	885	393	221	142	98	72	55	44	35	29	25	21	18	16	14	12	11	10	9
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	328.9	82.2	36.5	20.6	13.2	9.1	6.7	5.1	4.1	3.3	2.7	2.3	1.9	1.7	1.5	1.3	1.1	1	0.9	0.8

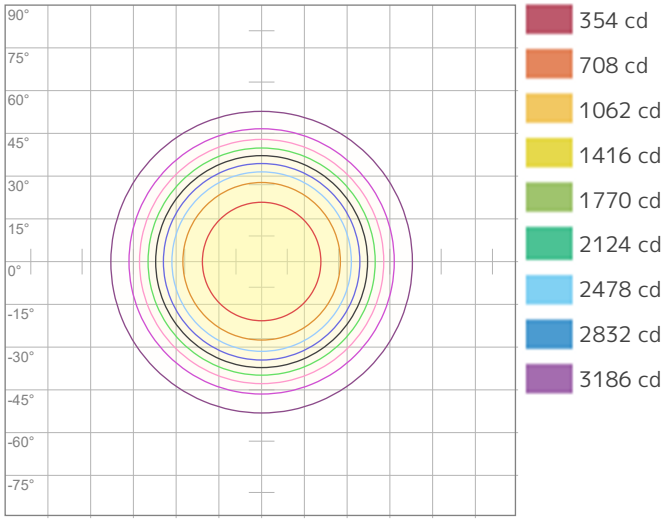
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
82.6°
Field Angle - 10%
117.8°
Cutoff Angle - 2.5%
149.8°

ISO Diagrams

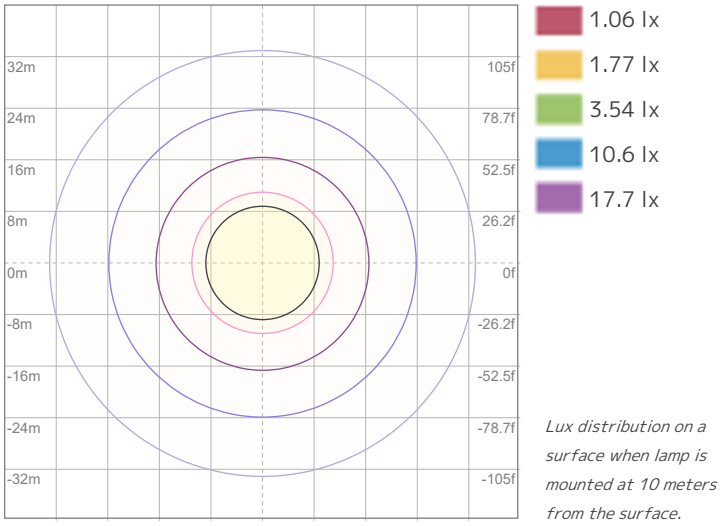


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 3540 cd



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

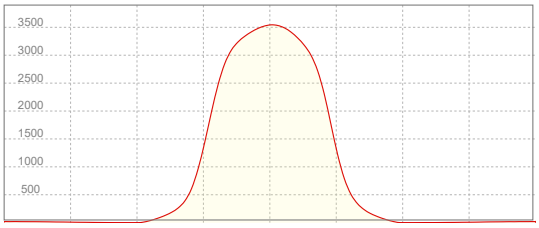
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 35.4 lx

Linear Distribution



Peak Candela

3544 cd

Calculate Center Beam Intensities

lux = 3544 / distance(m)^2

fc = 3544 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (100°, 8500K)

Key Measurements

Output

Total Lumen Output: 6422 lm

Peak Intensity: 3715 cd

Beam

Beam Angle (50%): 82.6°

Field Angle (10%): 118°

Cutoff Angle (2.5%): 149.9°

Color

Color Temperature: 8461 K

CRI: 89.1

TLCI: 87

TM30 R_F: 87.0

TM30 R_g: 105.2

Power Details

Efficacy: 43 Lumen/Watt

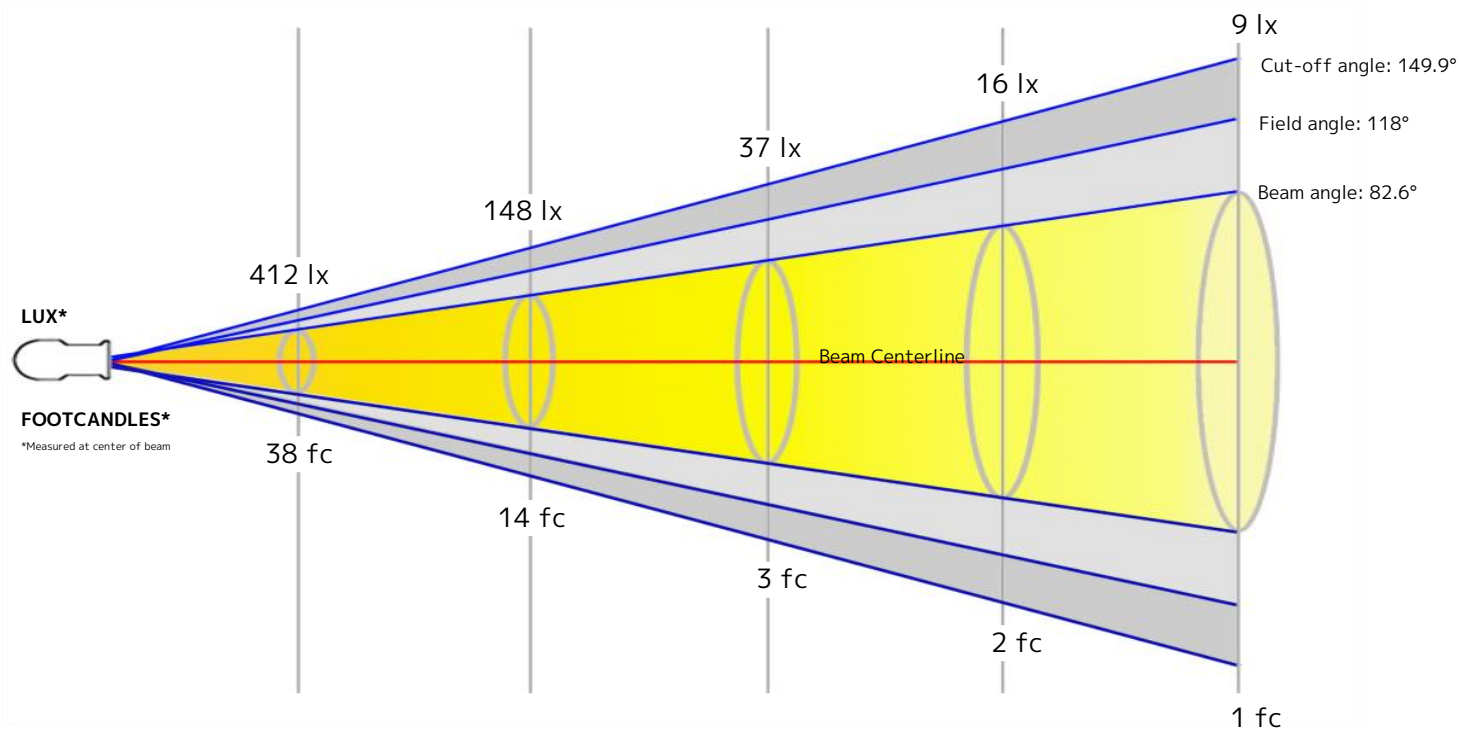
Power: 147.9 W

Supply Voltage: 118 V

Current: 1.26 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6	26.4 m	35.2 m



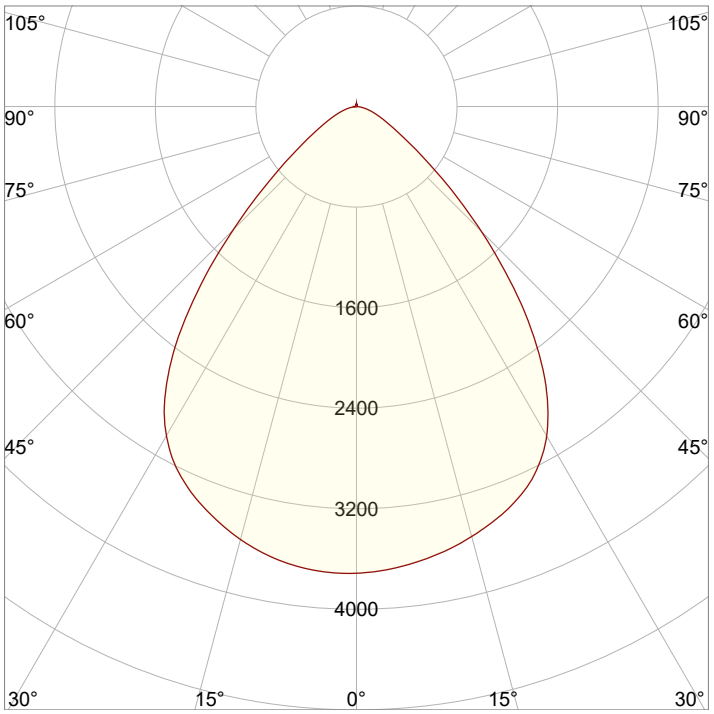
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.2 ft	28.8 ft	57.7 ft	86.5 ft	115.4 ft

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	3710	928	412	232	148	103	76	58	46	37	31	26	22	19	16	14	13	11	10	9
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	344.7	86.2	38.3	21.5	13.8	9.6	7	5.4	4.3	3.4	2.8	2.4	2	1.8	1.5	1.3	1.2	1.1	1	0.9

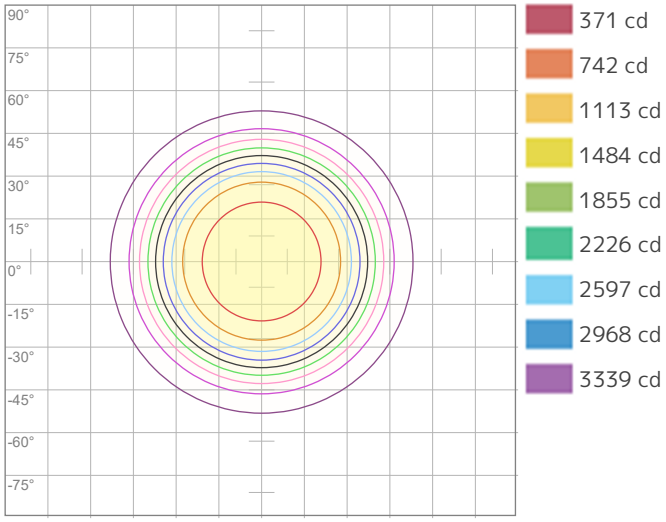
Measurement Date: 8/12/2024

Angular Distribution



Beam Angle - 50%
82.6°
Field Angle - 10%
118°
Cutoff Angle - 2.5%
149.9°

ISO Diagrams

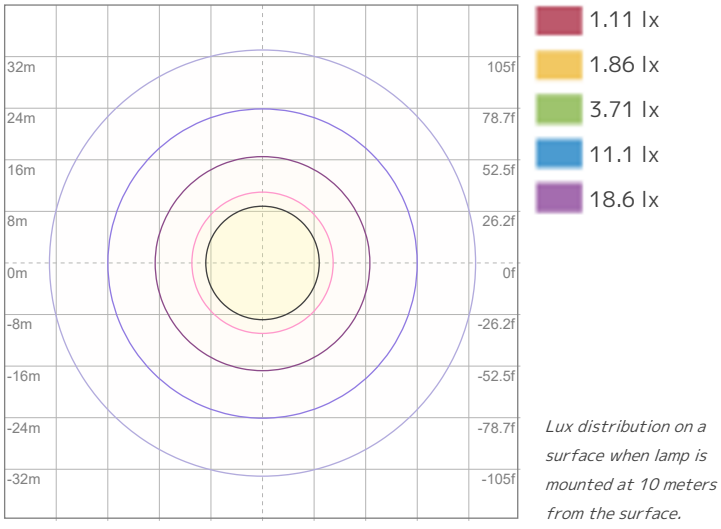


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 3710 cd



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

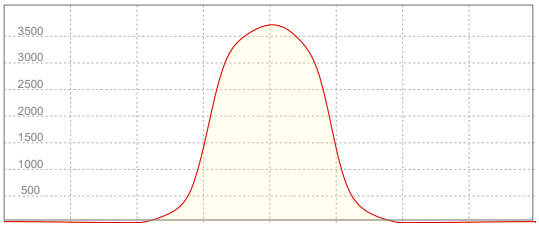
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 37.1 lx

Linear Distribution



Peak Candela

3715 cd

Calculate Center Beam Intensities

$lux = 3715 / distance(m)^2$

$fc = 3715 / distance(ft)^2$

Measurement Date: 8/12/2024

Six+ Bar L (60°x10°, Full Output, No UV)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 9325 lm

Peak Intensity: 17582 cd

Beam

Beam Angle (50%): 38.9°x 20.2°

Field Angle (10%): 66°x 40.1°

Cutoff Angle (2.5%): 86.5°x 60.9°

Color

Color Temperature: 6788 K

CRI: 65.8

TLCI: 73

TM30 R_F: 77.7

TM30 R_g: 121.3

Power Details

Efficacy: 54 Lumen/Watt

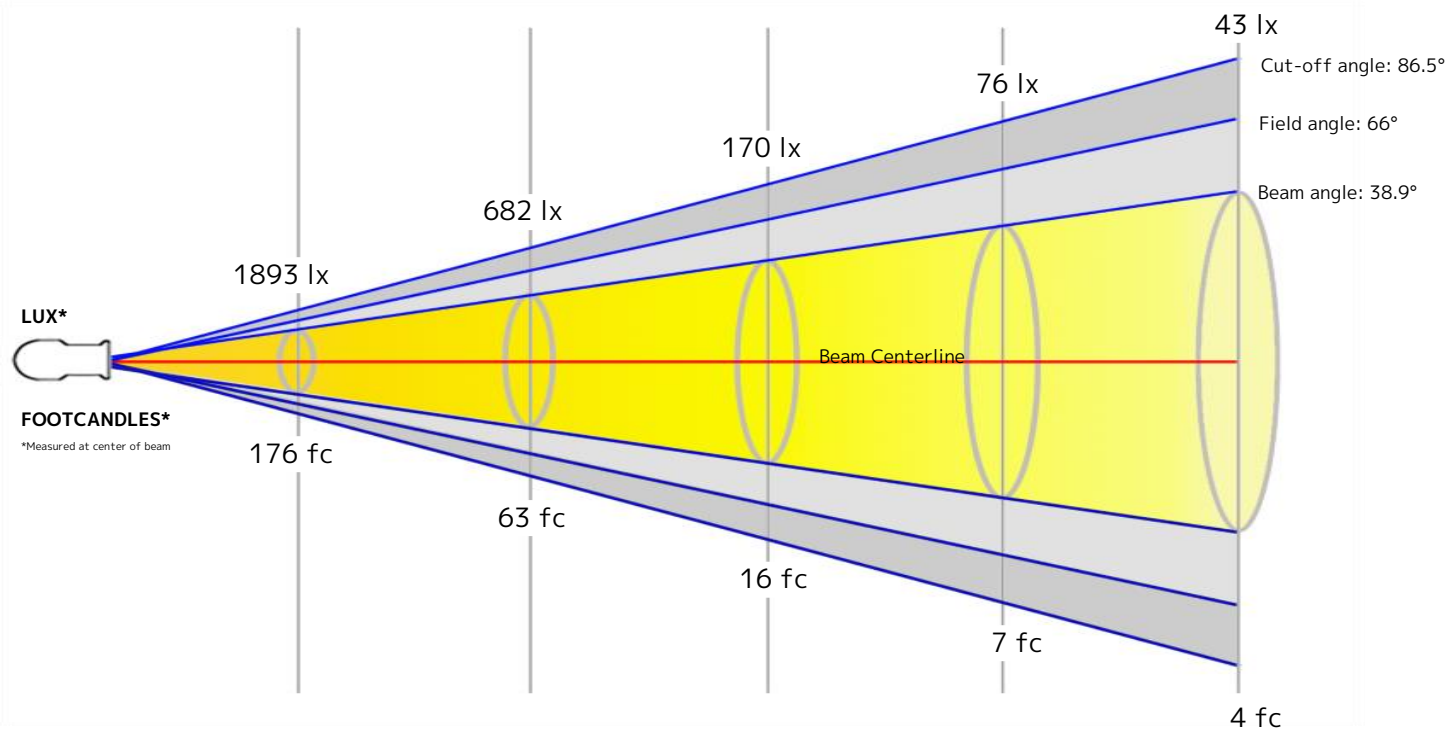
Power: 173.5 W

Supply Voltage: 120 V

Current: 1.45 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7.1 m	10.6 m	14.1 m



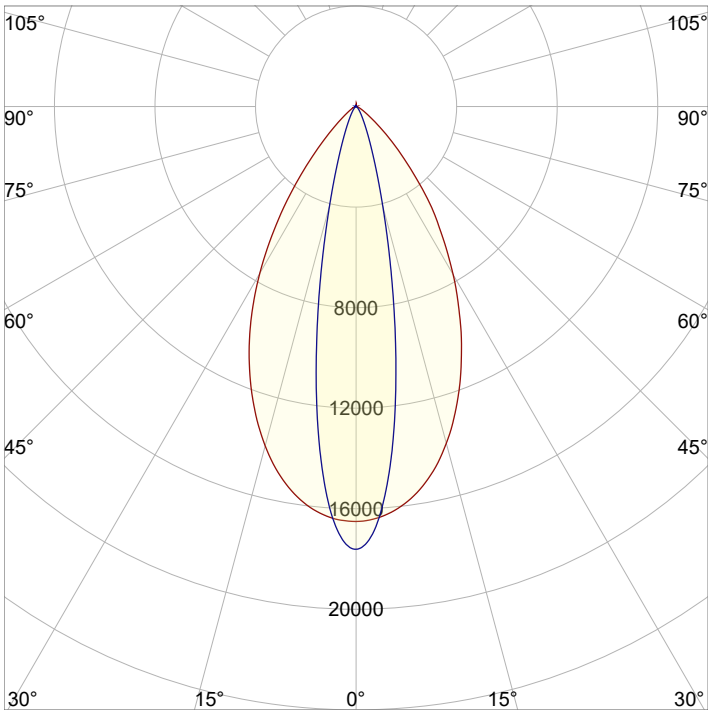
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	6.9 ft	11.6 ft	23.1 ft	34.7 ft	46.3 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	17041	4260	1893	1065	682	473	348	266	210	170	141	118	101	87	76	67	59	53	47	43
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	1583.2	395.8	175.9	98.9	63.3	44	32.3	24.7	19.5	15.8	13.1	11	9.4	8.1	7	6.2	5.5	4.9	4.4	4

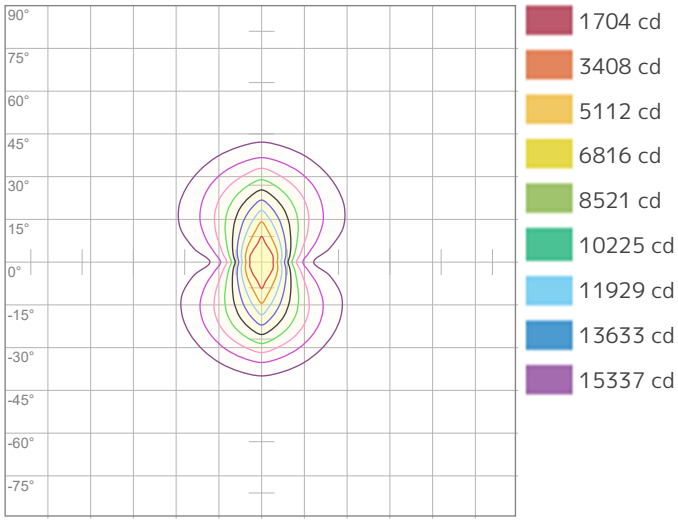
Measurement Date: 8/9/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
38.9°	20.2°
Field Angle - 10%	Field Angle - 10%
66°	40.1°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
86.5°	60.9°

ISO Diagrams

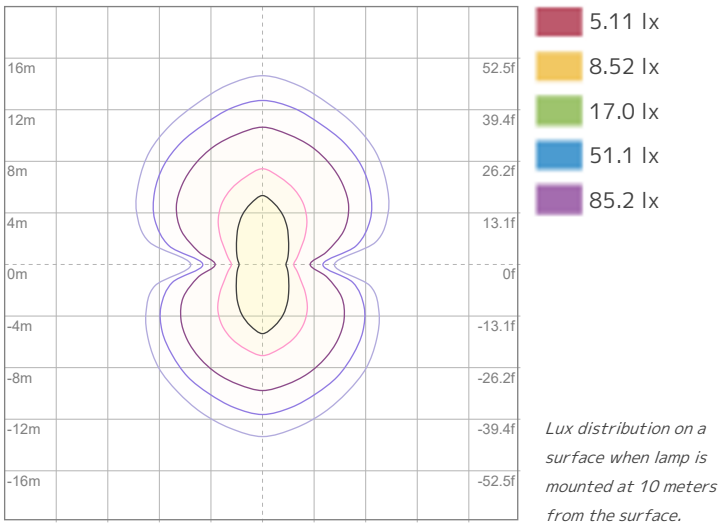


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 17041 cd



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

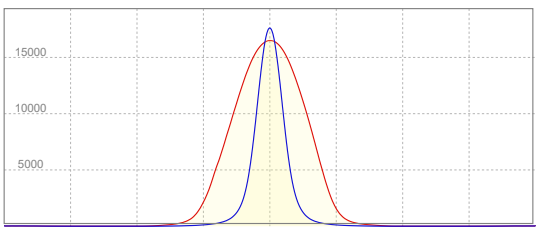
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 170 lx

Linear Distribution



Peak Candela

17582 cd

Calculate Center Beam Intensities

lux = 17582 / distance(m)^2

fc = 17582 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (60°x10°, Full Output)

Key Measurements

Output

Total Lumen Output: 7858 lm

Peak Intensity: 15027 cd

Beam

Beam Angle (50%): 38.5°x 20.2°

Field Angle (10%): 65.7°x 40.1°

Cutoff Angle (2.5%): 86.3°x 60.9°

Color

Color Temperature: 7519 K

CRI: 64.1

TLCI: 72

TM30 R_F: 75.9

TM30 R_g: 121.7

Power Details

Efficacy: 46 Lumen/Watt

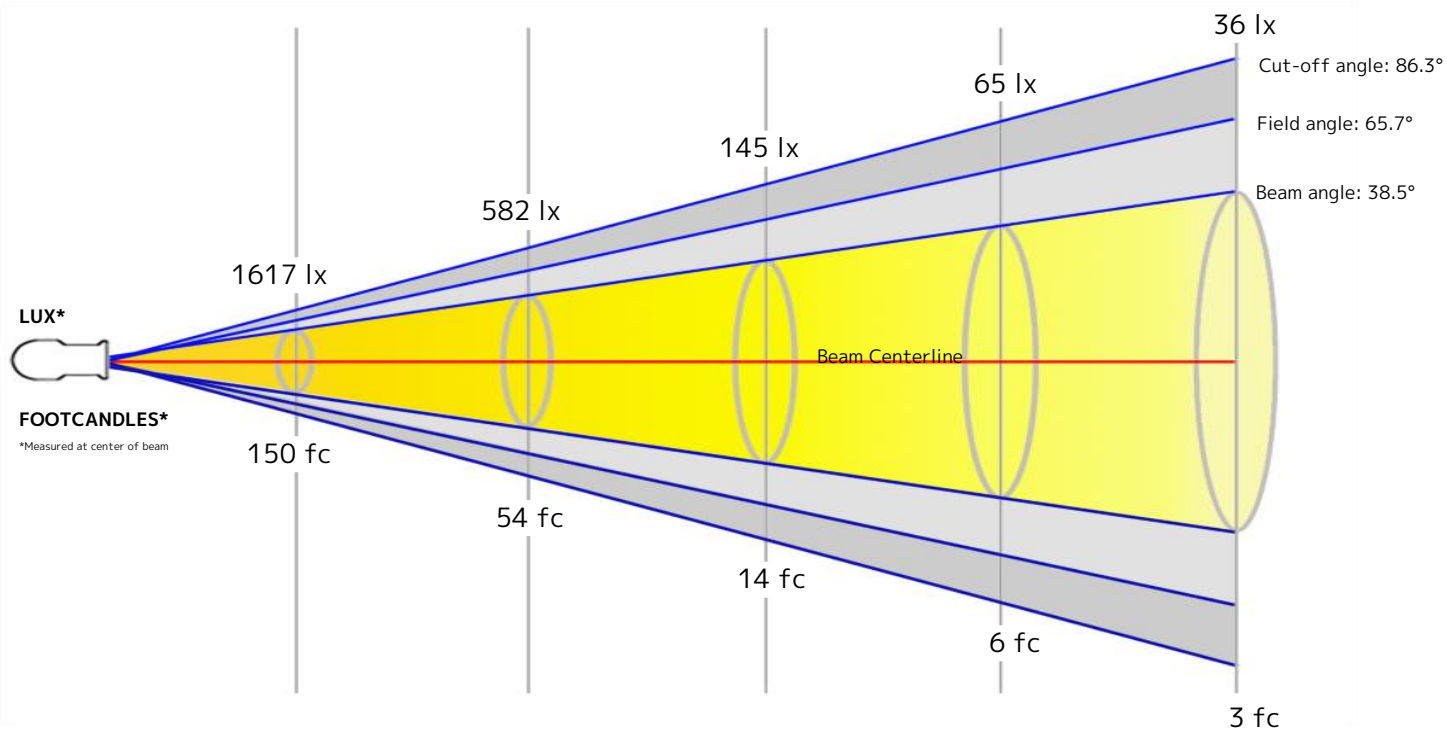
Power: 172.7 W

Supply Voltage: 119 V

Current: 1.45 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7 m	10.5 m	14 m



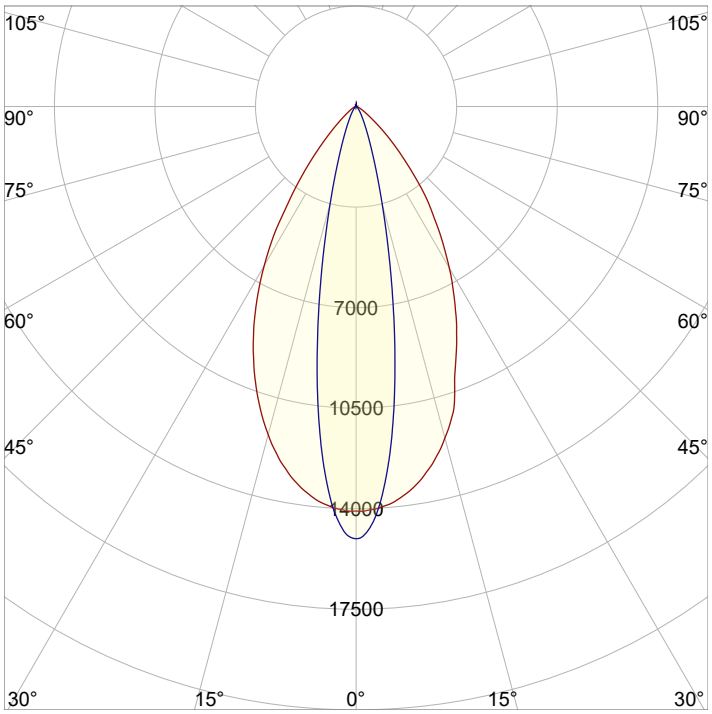
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	6.8 ft	11.5 ft	22.9 ft	34.4 ft	45.8 ft

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	14549	3637	1617	909	582	404	297	227	180	145	120	101	86	74	65	57	50	45	40	36
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	1351.6	337.9	150.2	84.5	54.1	37.5	27.6	21.1	16.7	13.5	11.2	9.4	8	6.9	6	5.3	4.7	4.2	3.7	3.4

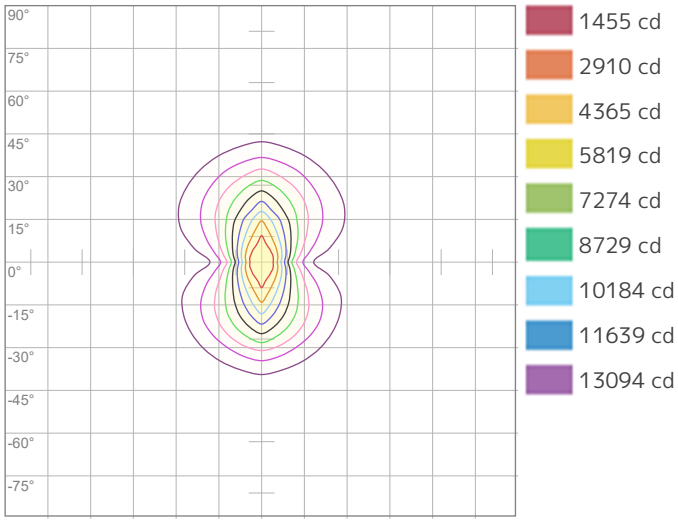
Measurement Date: 8/9/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
38.5°	20.2°
Field Angle - 10%	Field Angle - 10%
65.7°	40.1°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
86.3°	60.9°

ISO Diagrams

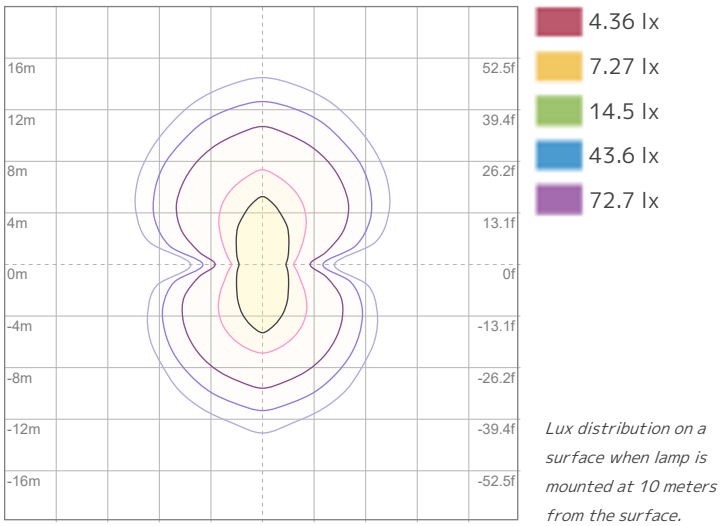


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 14549 cd



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

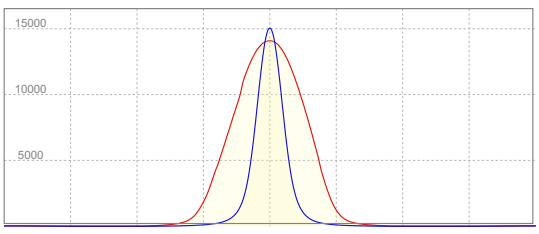
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 145 lx

Linear Distribution



Peak Candela

15027 cd

Calculate Center Beam Intensities

lux = 15027 / distance(m)^2

fc = 15027 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (60°x10°, 2400K)

Key Measurements

Output

Total Lumen Output: 6456 lm

Peak Intensity: 12301 cd

Beam

Beam Angle (50%): 38.7°x 20.2°

Field Angle (10%): 65.7°x 40.1°

Cutoff Angle (2.5%): 85.9°x 60.7°

Color

Color Temperature: 2423 K

CRI: 85.4

TLCI: 78

TM30 R_F: 89.0

TM30 R_g: 107.9

Power Details

Efficacy: 60 Lumen/Watt

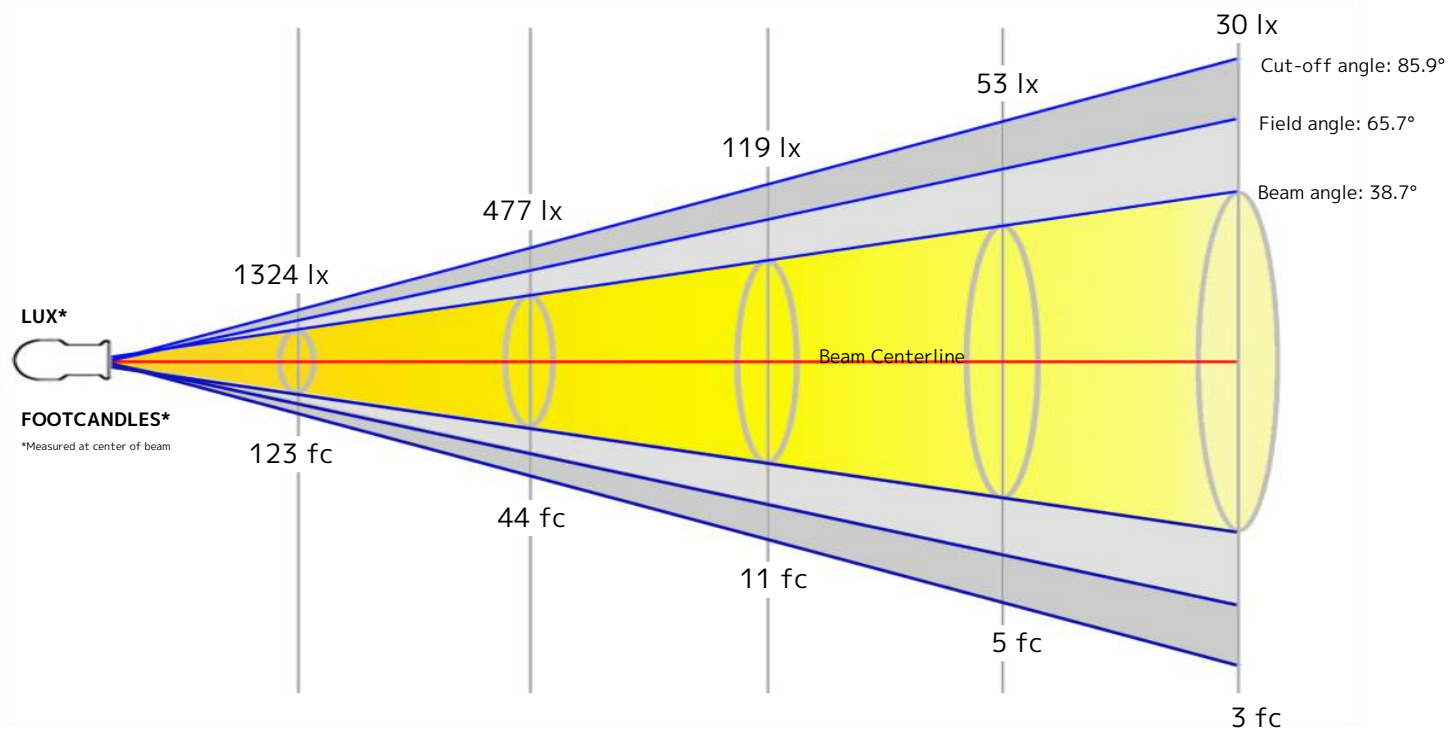
Power: 107.8 W

Supply Voltage: 120 V

Current: 0.907 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7 m	10.5 m	14.1 m



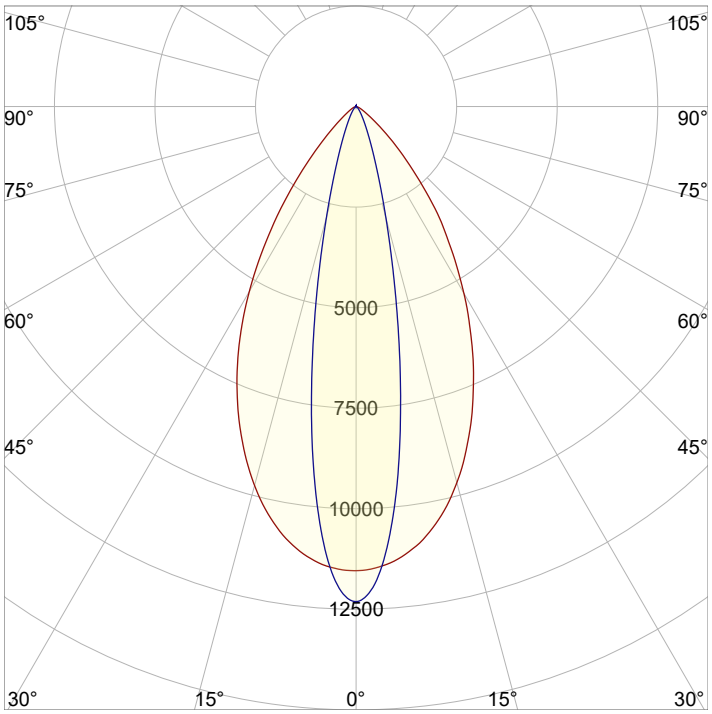
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	6.9 ft	11.5 ft	23.1 ft	34.6 ft	46.1 ft

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	11914	2979	1324	745	477	331	243	186	147	119	98	83	70	61	53	47	41	37	33	30
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	1106.9	276.7	123	69.2	44.3	30.7	22.6	17.3	13.7	11.1	9.1	7.7	6.5	5.6	4.9	4.3	3.8	3.4	3.1	2.8

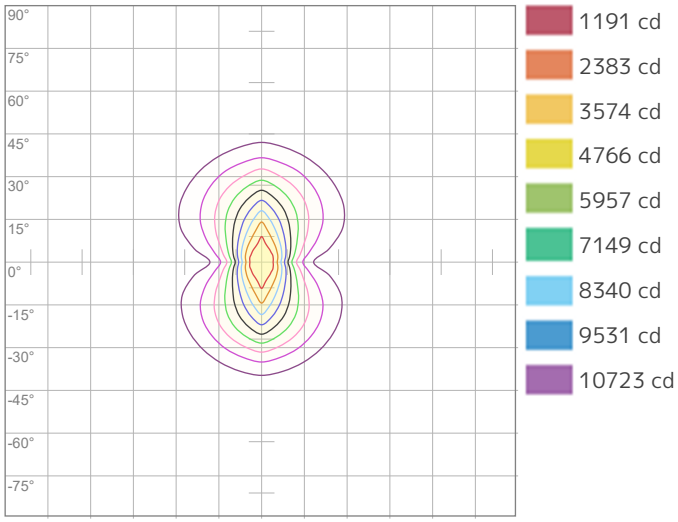
Measurement Date: 8/9/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
38.7°	20.2°
Field Angle - 10%	Field Angle - 10%
65.7°	40.1°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
85.9°	60.7°

ISO Diagrams

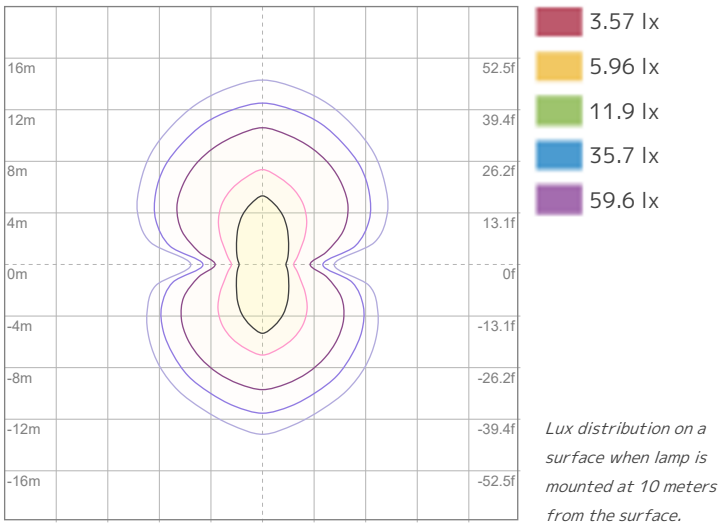


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 11914 cd



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

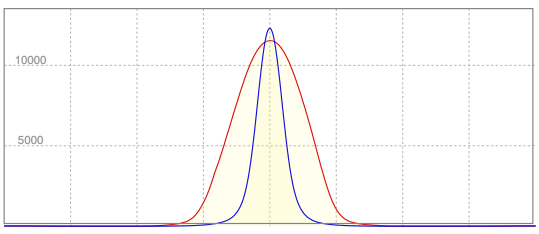
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 119 lx

Linear Distribution



Peak Candela

12301 cd

Calculate Center Beam Intensities

lux = 12301 / distance(m)^2

fc = 12301 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (60°x10°, 3200K)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 7334 lm

Peak Intensity: 13844 cd

Beam

Beam Angle (50%): 38.8°x 20.2°

Field Angle (10%): 65.9°x 40.2°

Cutoff Angle (2.5%): 86.6°x 61.2°

Color

Color Temperature: 3253 K

CRI: 91.4

TLCI: 83

TM30 R_F: 91.8

TM30 R_g: 107.2

Power Details

Efficacy: 65 Lumen/Watt

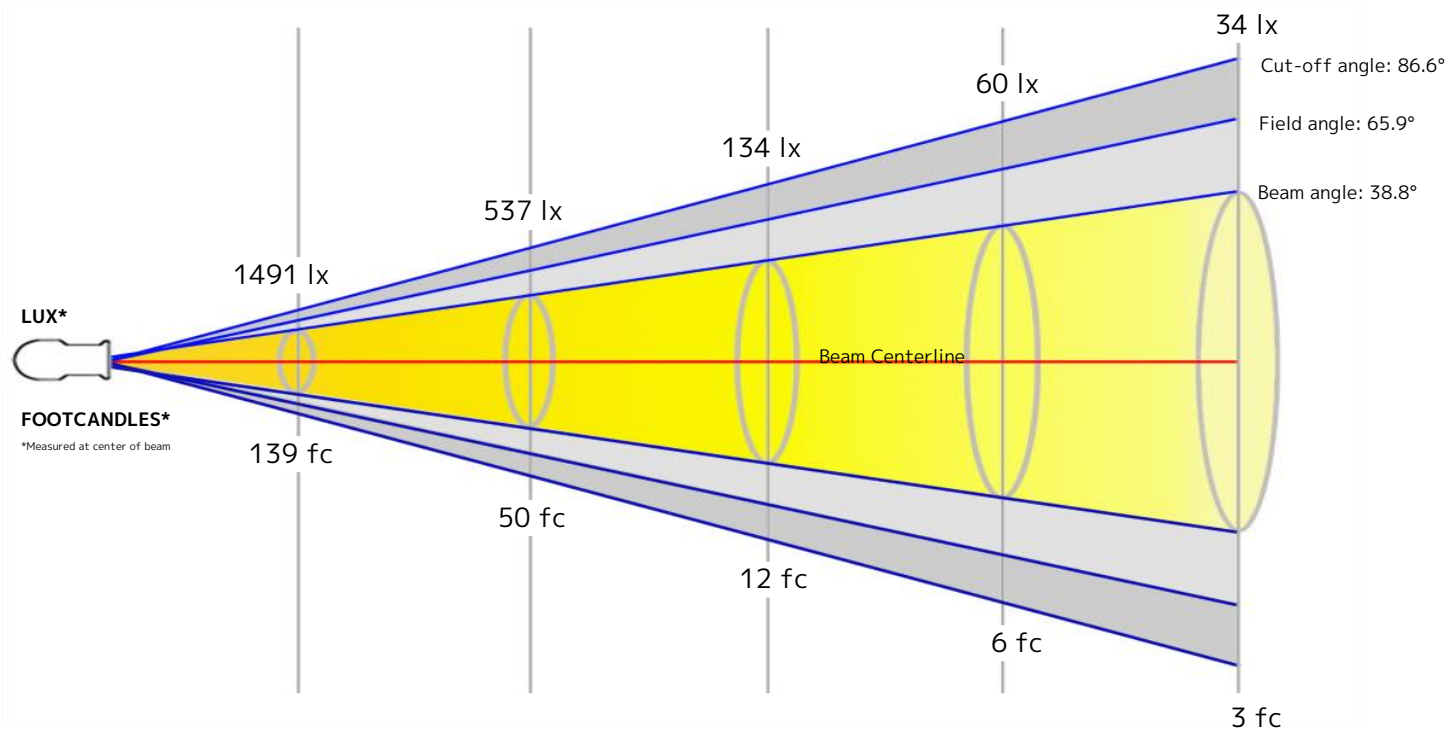
Power: 113.4 W

Supply Voltage: 119 V

Current: 0.955 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7 m	10.6 m	14.1 m



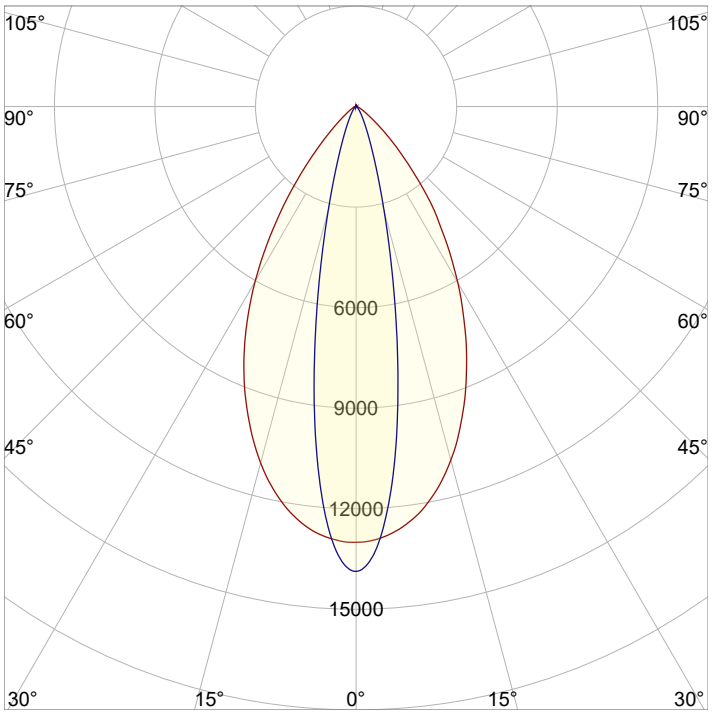
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	6.9 ft	11.6 ft	23.1 ft	34.7 ft	46.2 ft

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	13421	3355	1491	839	537	373	274	210	166	134	111	93	79	68	60	52	46	41	37	34
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	1246.9	311.7	138.5	77.9	49.9	34.6	25.4	19.5	15.4	12.5	10.3	8.7	7.4	6.4	5.5	4.9	4.3	3.8	3.5	3.1

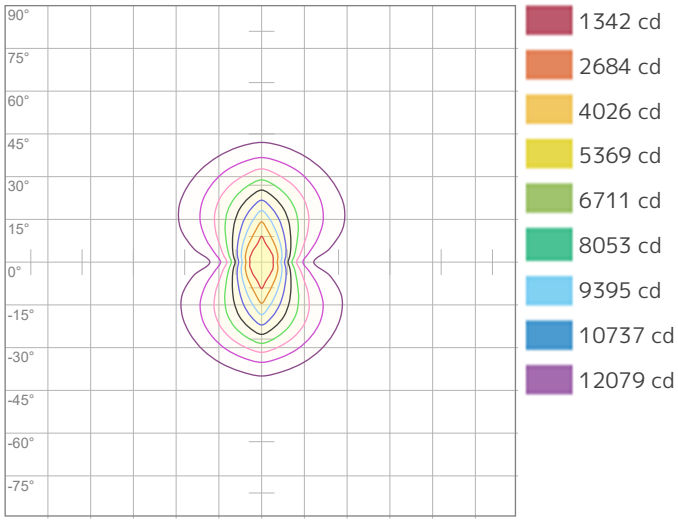
Measurement Date: 8/9/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
38.8°	20.2°
Field Angle - 10%	Field Angle - 10%
65.9°	40.2°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
86.6°	61.2°

ISO Diagrams

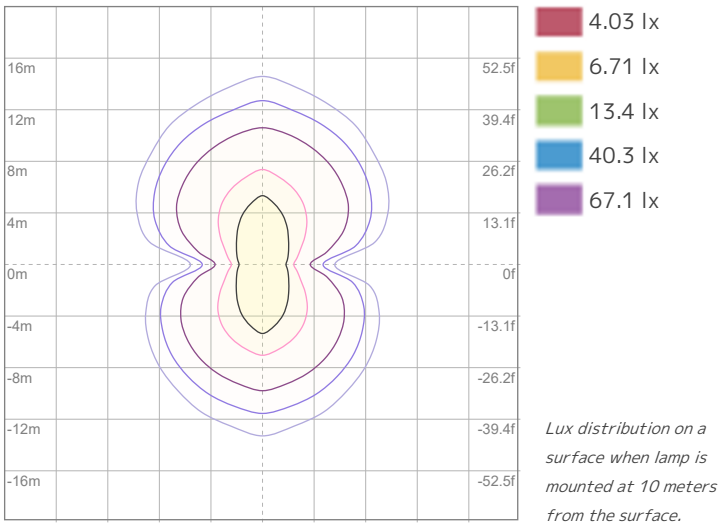


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 13421 cd



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

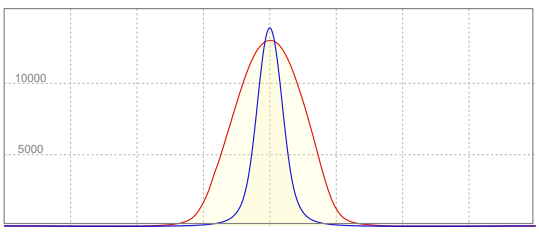
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 134 lx

Linear Distribution



Peak Candela

13844 cd

Calculate Center Beam Intensities

lux = 13844 / distance(m)^2

fc = 13844 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (60°x10°, 4500K)

Key Measurements

Output

Total Lumen Output: 7717 lm

Peak Intensity: 14485 cd

Beam

Beam Angle (50%): 38.9°x 20.2°

Field Angle (10%): 66.1°x 40.2°

Cutoff Angle (2.5%): 86.9°x 61.4°

Color

Color Temperature: 4522 K

CRI: 92.0

TLCI: 83

TM30 R_F: 90.2

TM30 R_g: 106.8

Power Details

Efficacy: 63 Lumen/Watt

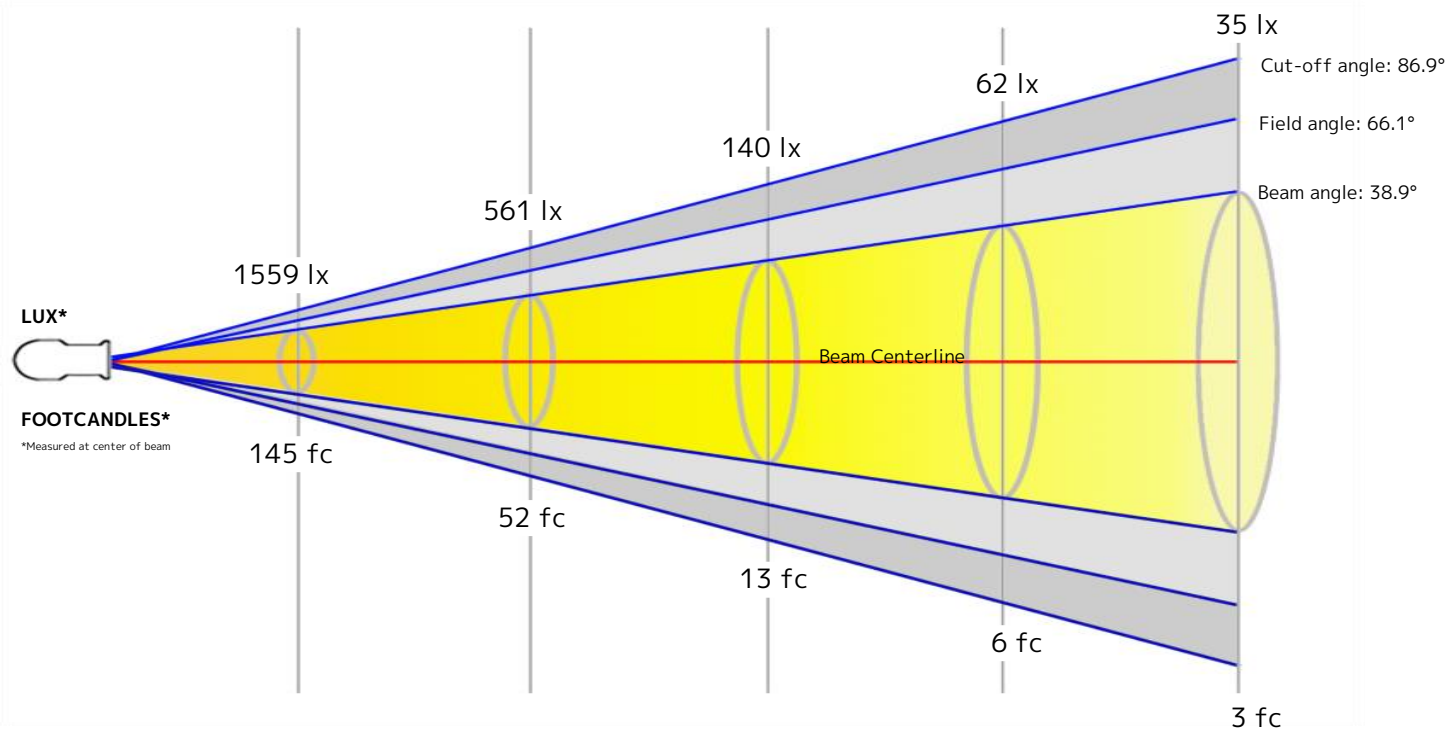
Power: 122.6 W

Supply Voltage: 119 V

Current: 1.03 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7.1 m	10.6 m	14.1 m



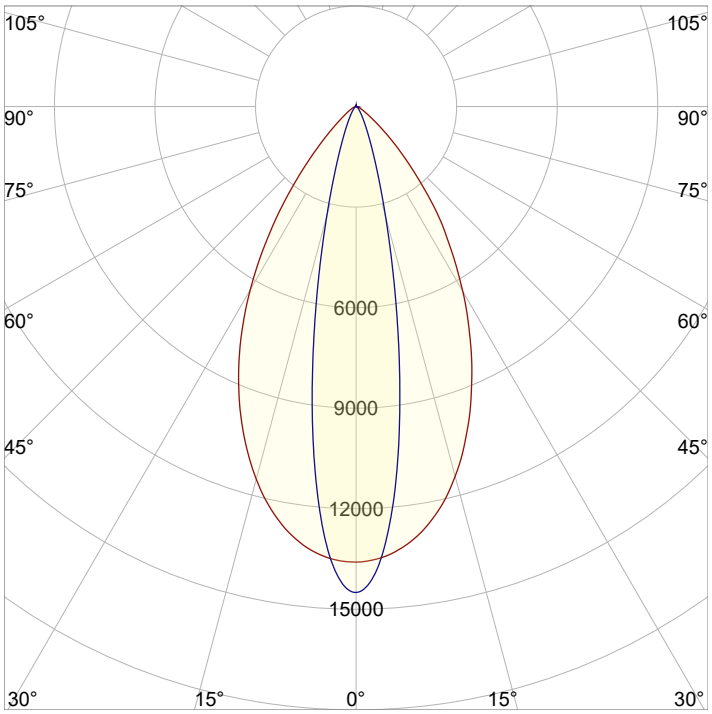
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	6.9 ft	11.6 ft	23.2 ft	34.8 ft	46.3 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	14030	3507	1559	877	561	390	286	219	173	140	116	97	83	72	62	55	49	43	39	35
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	1303.4	325.8	144.8	81.5	52.1	36.2	26.6	20.4	16.1	13	10.8	9.1	7.7	6.6	5.8	5.1	4.5	4	3.6	3.3

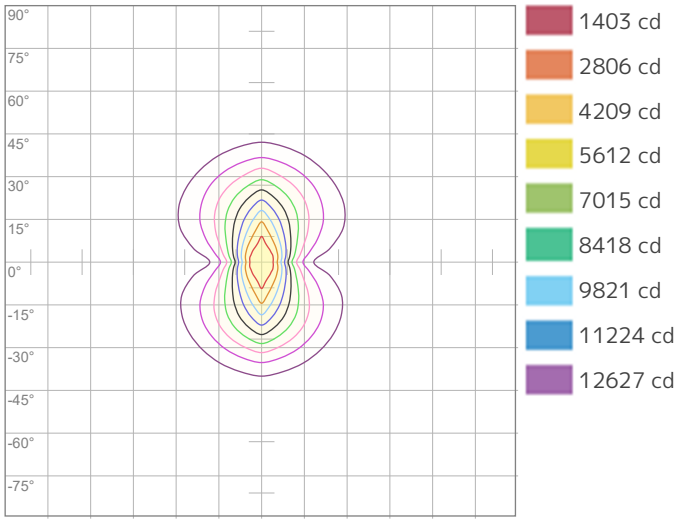
Measurement Date: 8/9/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
38.9°	20.2°
Field Angle - 10%	Field Angle - 10%
66.1°	40.2°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
86.9°	61.4°

ISO Diagrams

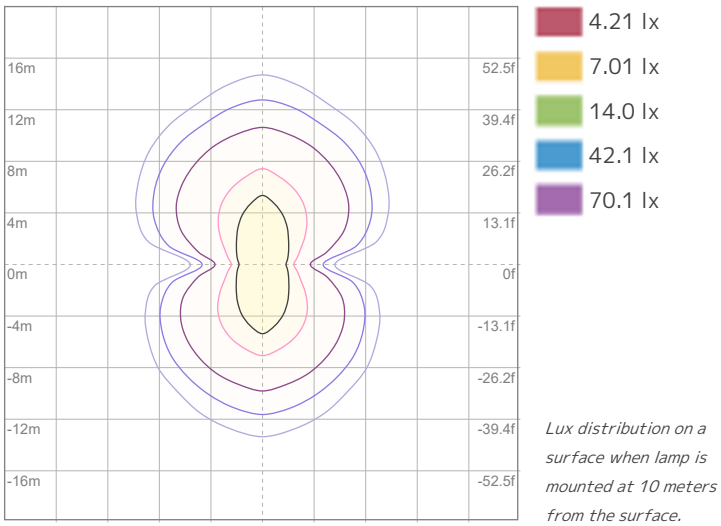


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 14030 cd



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

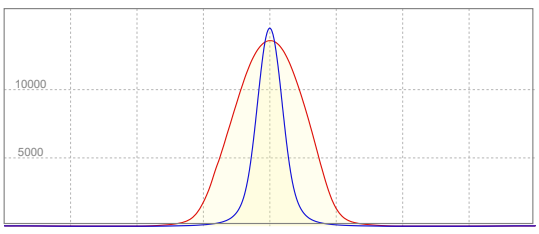
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 140 lx

Linear Distribution



Peak Candela

14485 cd

Calculate Center Beam Intensities

lux = 14485 / distance(m)^2

fc = 14485 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (60°x10°, 6500K)

Key Measurements

Output

Total Lumen Output: 8329 lm

Peak Intensity: 15583 cd

Beam

Beam Angle (50%): 38.9°x 20.2°

Field Angle (10%): 66.1°x 40.3°

Cutoff Angle (2.5%): 87.3°x 61.5°

Color

Color Temperature: 6548 K

CRI: 89.8

TLCI: 86

TM30 R_F: 88.2

TM30 R_g: 106.2

Power Details

Efficacy: 60 Lumen/Watt

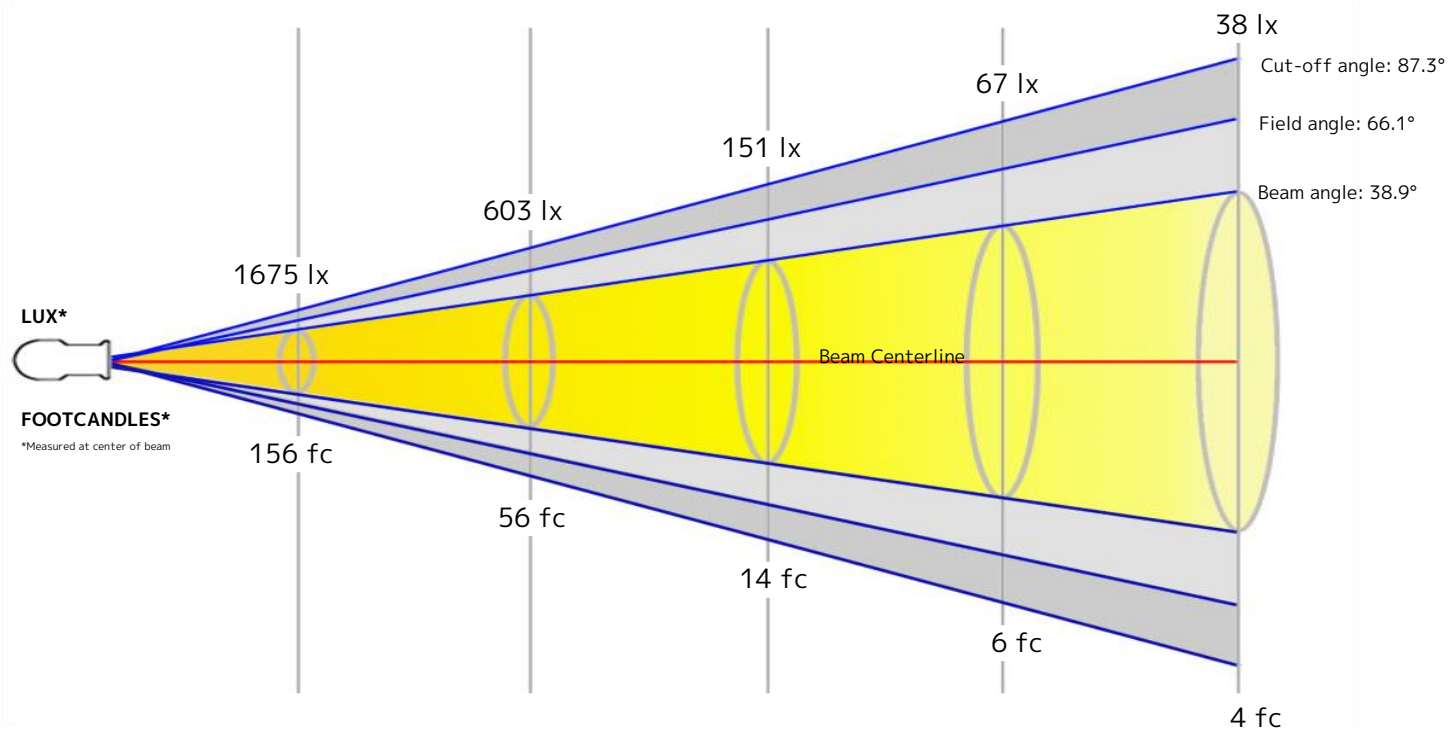
Power: 138.4 W

Supply Voltage: 118 V

Current: 1.17 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7.1 m	10.6 m	14.1 m



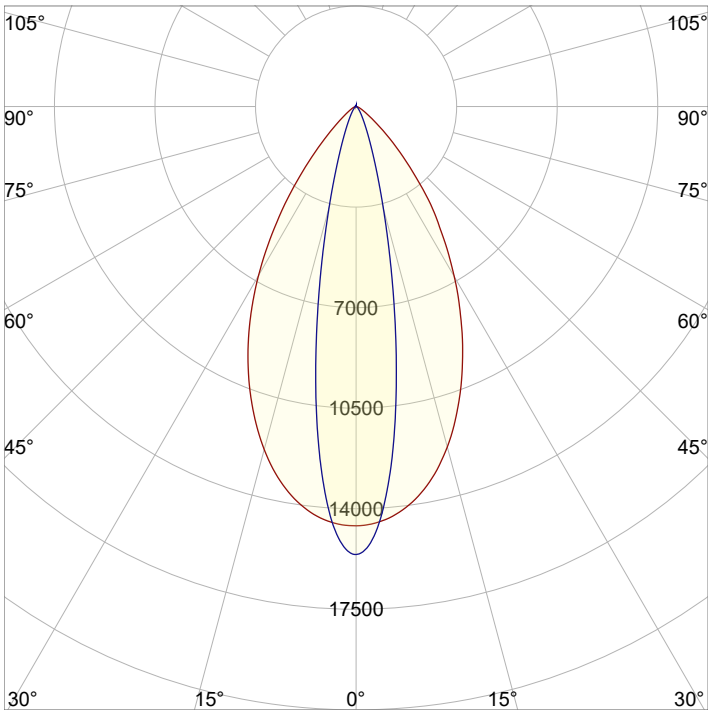
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	6.9 ft	11.6 ft	23.2 ft	34.7 ft	46.3 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	15078	3769	1675	942	603	419	308	236	186	151	125	105	89	77	67	59	52	47	42	38
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	1400.8	350.2	155.6	87.5	56	38.9	28.6	21.9	17.3	14	11.6	9.7	8.3	7.1	6.2	5.5	4.8	4.3	3.9	3.5

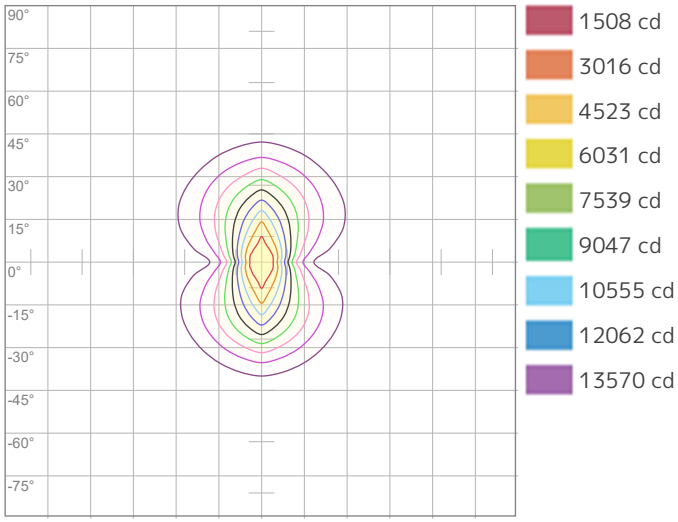
Measurement Date: 8/9/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
38.9°	20.2°
Field Angle - 10%	Field Angle - 10%
66.1°	40.3°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
87.3°	61.5°

ISO Diagrams

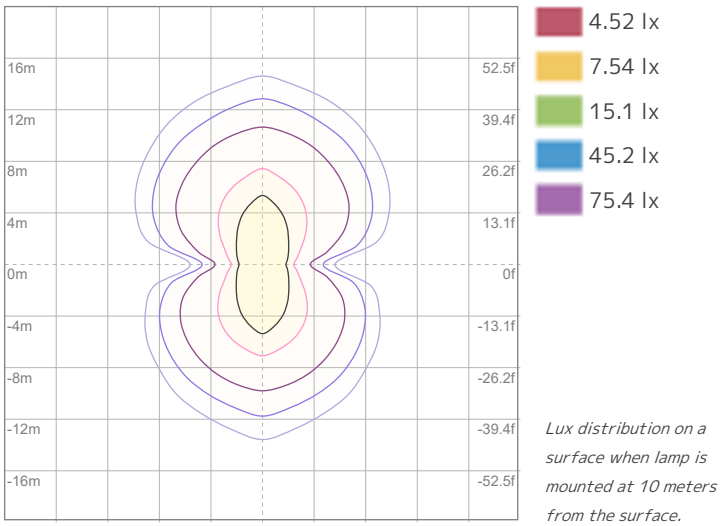


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 15078 cd



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

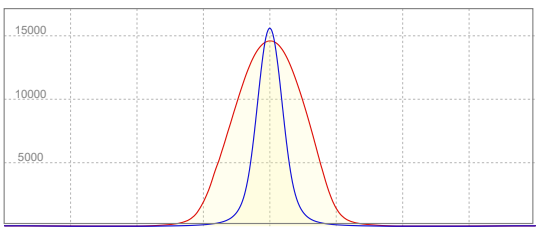
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 151 lx

Linear Distribution



Peak Candela

15583 cd

Calculate Center Beam Intensities

lux = 15583 / distance(m)^2

fc = 15583 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (60°x10°, 8500K)

Key Measurements

Output

Total Lumen Output: 8623 lm

Peak Intensity: 16114 cd

Beam

Beam Angle (50%): 38.9°x 20.2°

Field Angle (10%): 66.1°x 40.3°

Cutoff Angle (2.5%): 87.2°x 61.5°

Color

Color Temperature: 8550 K

CRI: 89.1

TLCI: 86

TM30 R_F: 87.0

TM30 R_g: 105.2

Power Details

Efficacy: 58 Lumen/Watt

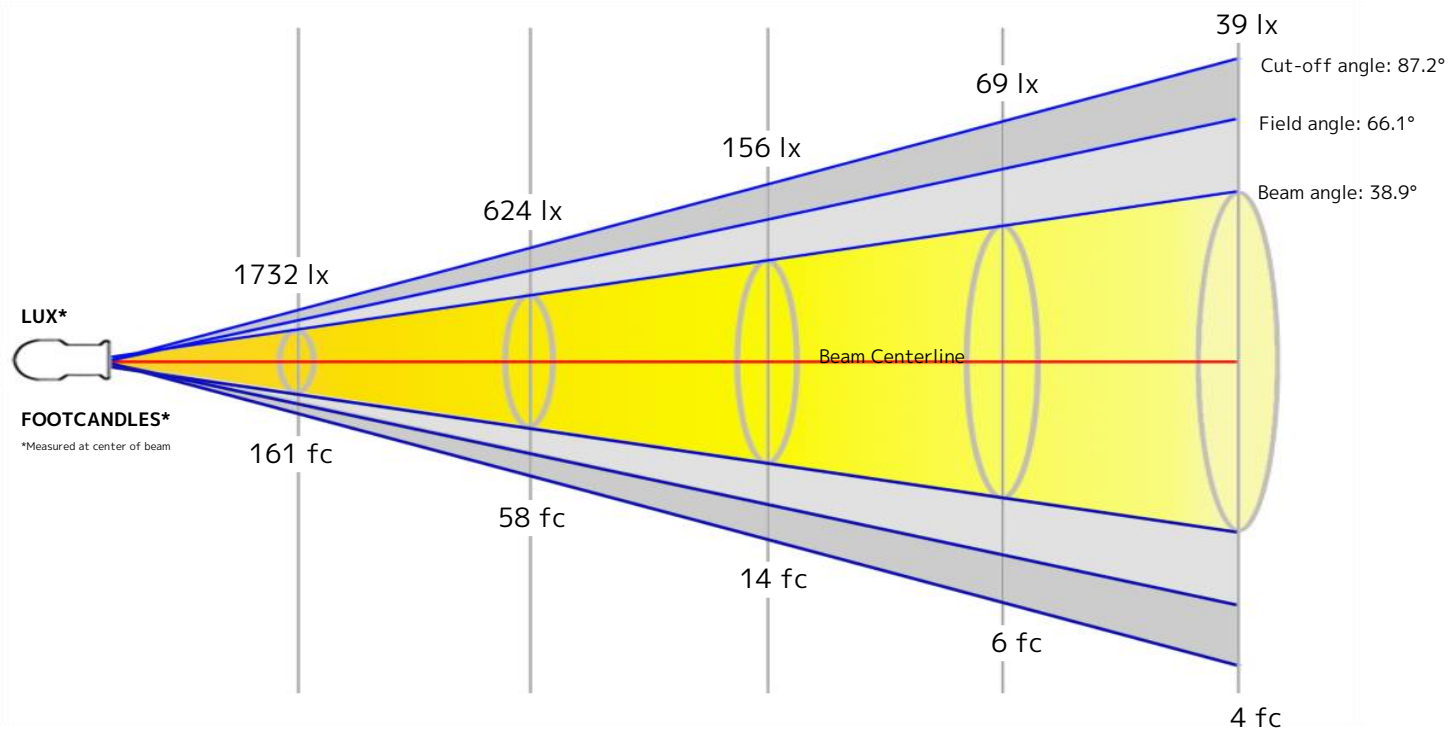
Power: 147.4 W

Supply Voltage: 119 V

Current: 1.24 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7.1 m	10.6 m	14.1 m



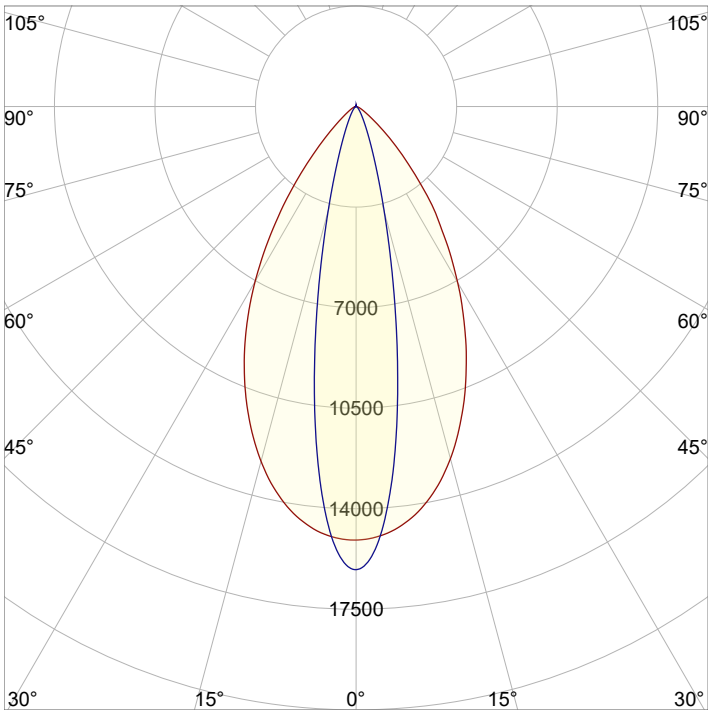
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	6.9 ft	11.6 ft	23.2 ft	34.7 ft	46.3 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	15592	3898	1732	974	624	433	318	244	192	156	129	108	92	80	69	61	54	48	43	39
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	1448.5	362.1	160.9	90.5	57.9	40.2	29.6	22.6	17.9	14.5	12	10.1	8.6	7.4	6.4	5.7	5	4.5	4	3.6

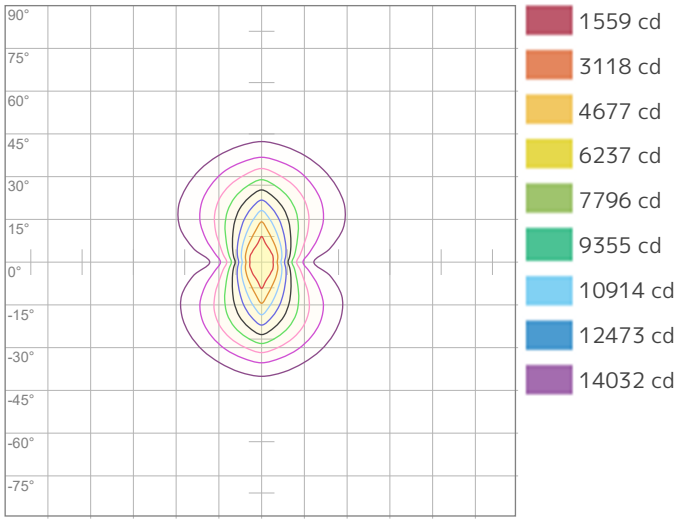
Measurement Date: 8/9/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
38.9°	20.2°
Field Angle - 10%	Field Angle - 10%
66.1°	40.3°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
87.2°	61.5°

ISO Diagrams

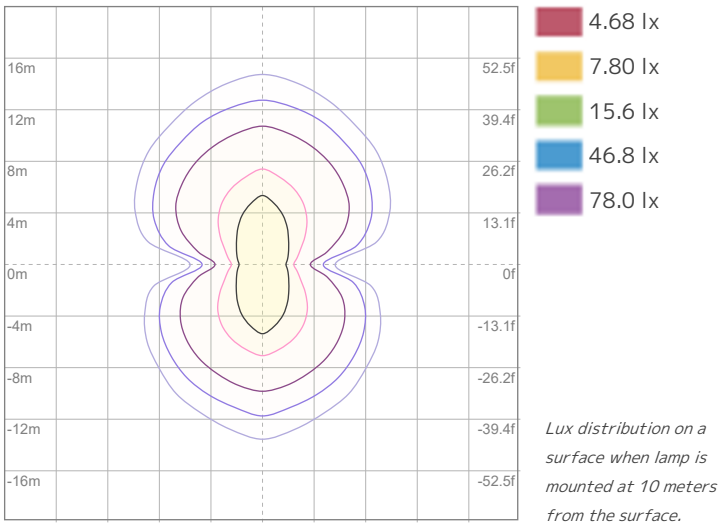


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 15592 cd



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

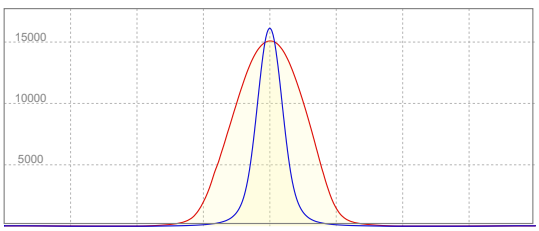
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 156 lx

Linear Distribution



Peak Candela

16114 cd

Calculate Center Beam Intensities

lux = 16114 / distance(m)^2

fc = 16114 / distance(ft)^2

Measurement Date: 8/9/2024

Six+ Bar L (1°x40°, Full Output, No UV)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 7647 lm

Peak Intensity: 23992 cd

Beam

Beam Angle (50%): 30°x 39.8°

Field Angle (10%): 51.4°x 65.1°

Cutoff Angle (2.5%): 69.6°x 82.6°

Color

Color Temperature: 7063 K

CRI: 64.9

TLCI: 72

TM30 R_F: 77.0

TM30 R_g: 121.4

Power Details

Efficacy: 44 Lumen/Watt

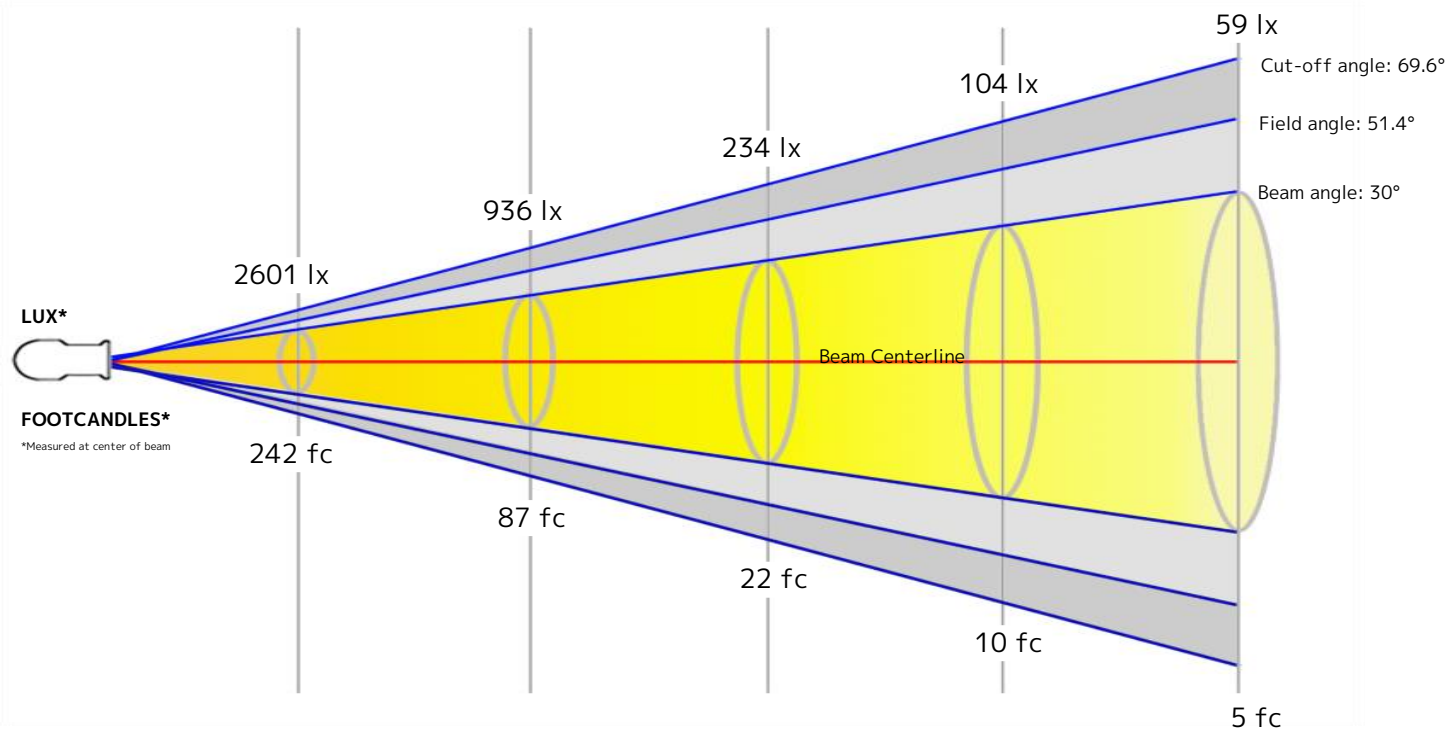
Power: 172.6 W

Supply Voltage: 119 V

Current: 1.46 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.7 m	5.4 m	8 m	10.7 m



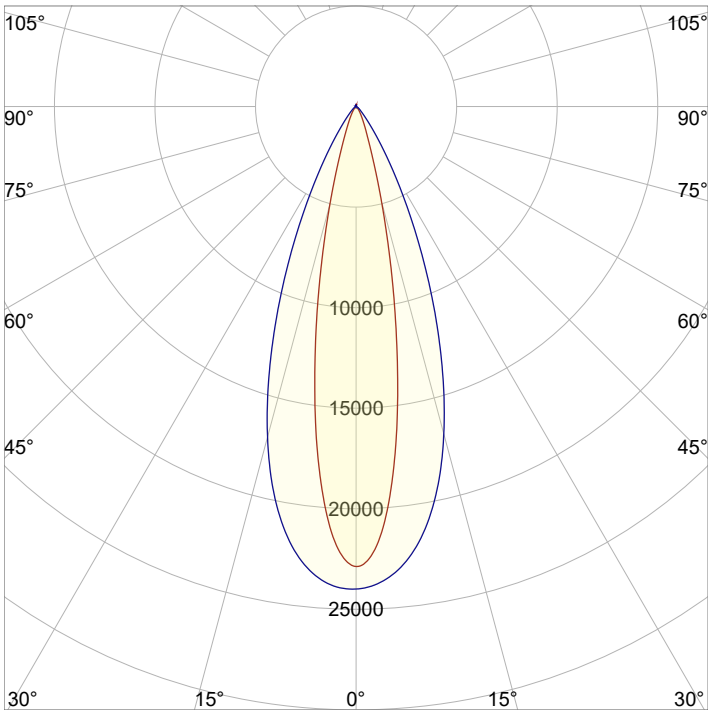
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.2 ft	8.8 ft	17.6 ft	26.3 ft	35.1 ft

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	23407	5852	2601	1463	936	650	478	366	289	234	193	163	139	119	104	91	81	72	65	59
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	2174.6	543.6	241.6	135.9	87	60.4	44.4	34	26.8	21.7	18	15.1	12.9	11.1	9.7	8.5	7.5	6.7	6	5.4

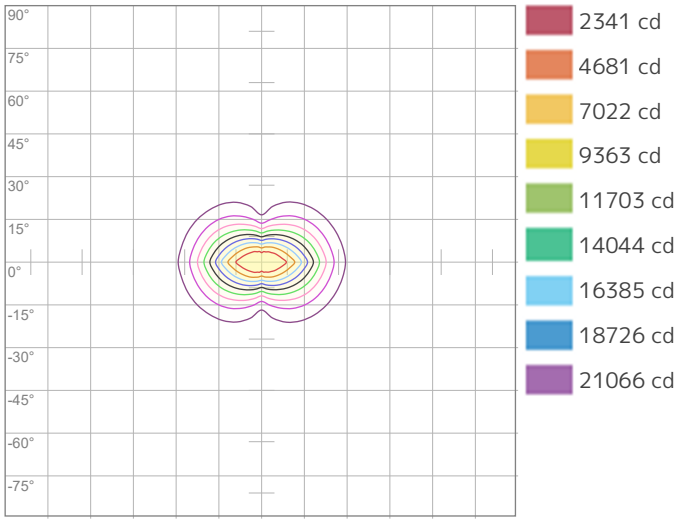
Measurement Date: 8/12/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30°	39.8°
Field Angle - 10%	Field Angle - 10%
51.4°	65.1°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
69.6°	82.6°

ISO Diagrams

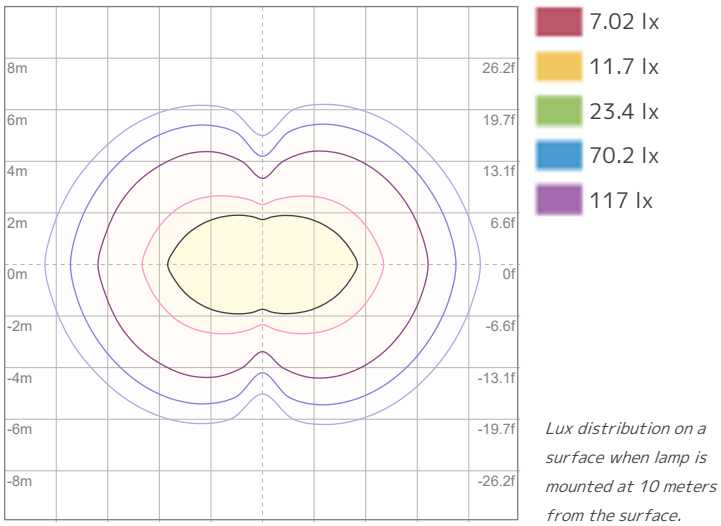


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 23407 cd



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

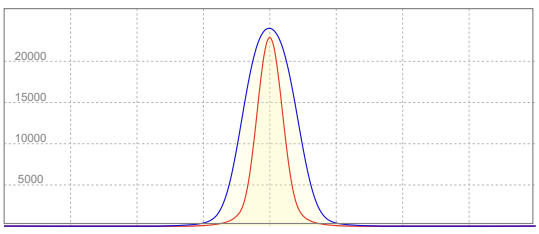
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 234 lx

Linear Distribution



Peak Candela

23992 cd

Calculate Center Beam Intensities

lux = 23992 / distance(m)^2

fc = 23992 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (1°x40°, Full Output)

Key Measurements

Output

Total Lumen Output: 5942 lm

Peak Intensity: 18276 cd

Beam

Beam Angle (50%): 30°x 39.9°

Field Angle (10%): 51.5°x 65.2°

Cutoff Angle (2.5%): 69.9°x 83.1°

Color

Color Temperature: 8086 K

CRI: 63.1

TLCI: 73

TM30 R_F: 75.1

TM30 R_g: 121.7

Power Details

Efficacy: 39 Lumen/Watt

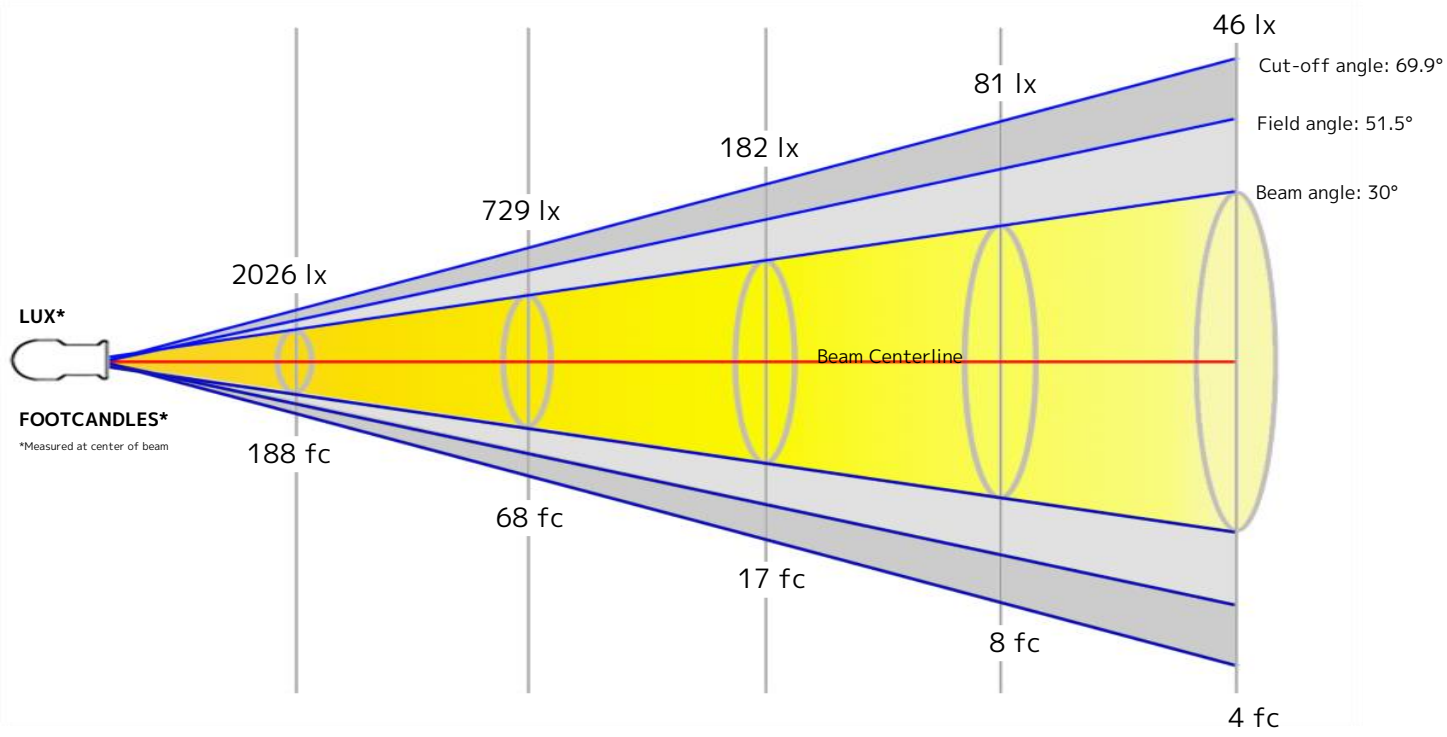
Power: 153.7 W

Supply Voltage: 118 V

Current: 1.31 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.7 m	5.4 m	8 m	10.7 m



Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.3 ft	8.8 ft	17.6 ft	26.4 ft	35.2 ft

Beam Intensities from 1-20m

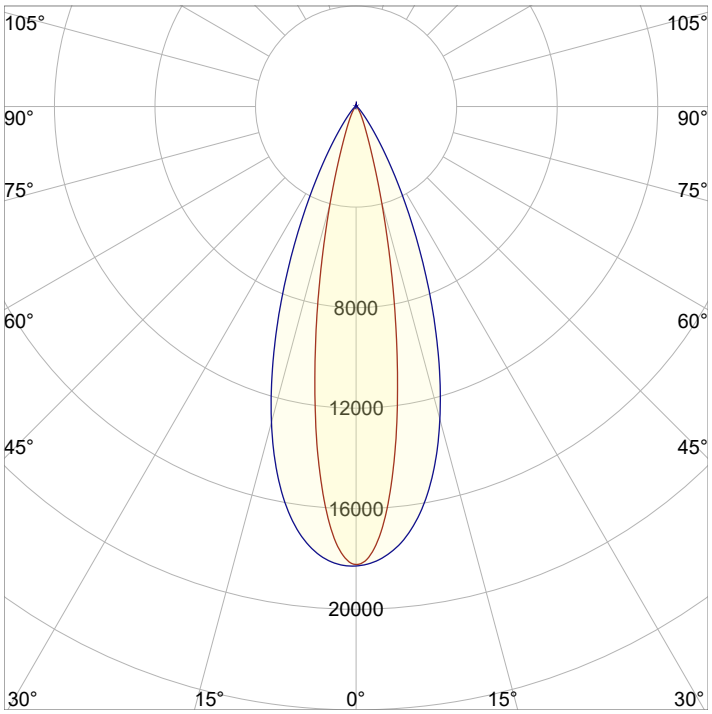
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	18231	4558	2026	1139	729	506	372	285	225	182	151	127	108	93	81	71	63	56	51	46
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1693.7	423.4	188.2	105.9	67.7	47	34.6	26.5	20.9	16.9	14	11.8	10	8.6	7.5	6.6	5.9	5.2	4.7	4.2

Measurement Date: 8/12/2024

Six+ Bar L (1°x40°, Full Output)

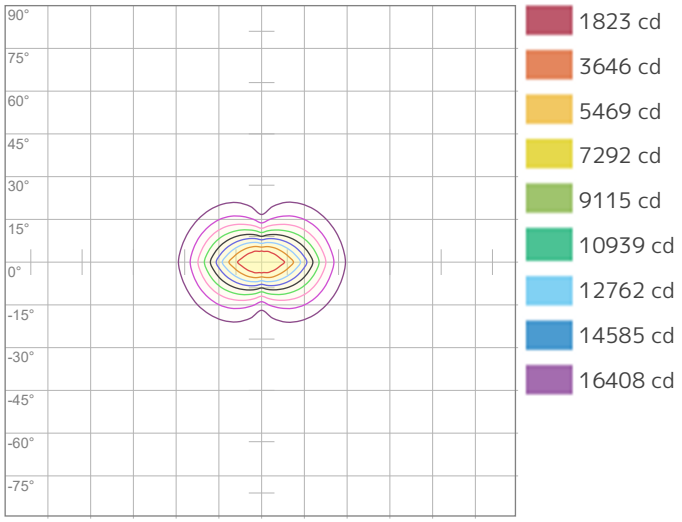
Prepared For ELATION PROFESSIONAL

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30°	39.9°
Field Angle - 10%	Field Angle - 10%
51.5°	65.2°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
69.9°	83.1°

ISO Diagrams

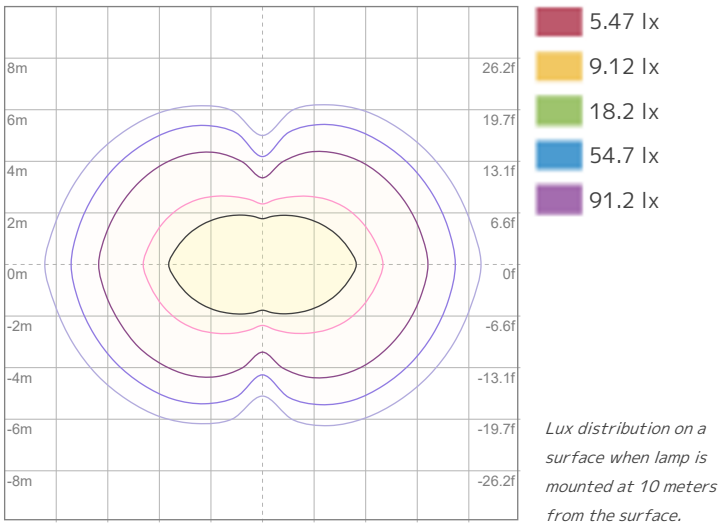


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 18231 cd



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

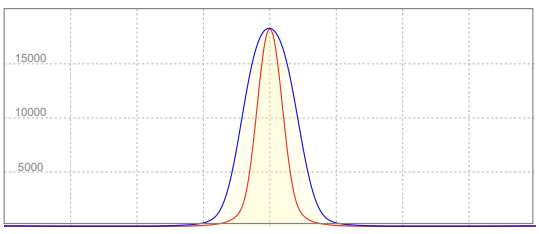
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 182 lx

Linear Distribution



Peak Candela

18276 cd

Calculate Center Beam Intensities

lux = 18276 / distance(m)^2

fc = 18276 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (1°x40°, 2400K)

Key Measurements

Output

Total Lumen Output: 5260 lm

Peak Intensity: 16498 cd

Beam

Beam Angle (50%): 29.9°x 39.7°

Field Angle (10%): 51.2°x 64.9°

Cutoff Angle (2.5%): 69°x 82.4°

Color

Color Temperature: 2444 K

CRI: 85.3

TLCI: 80

TM30 R_F: 89.3

TM30 R_g: 107.7

Power Details

Efficacy: 49 Lumen/Watt

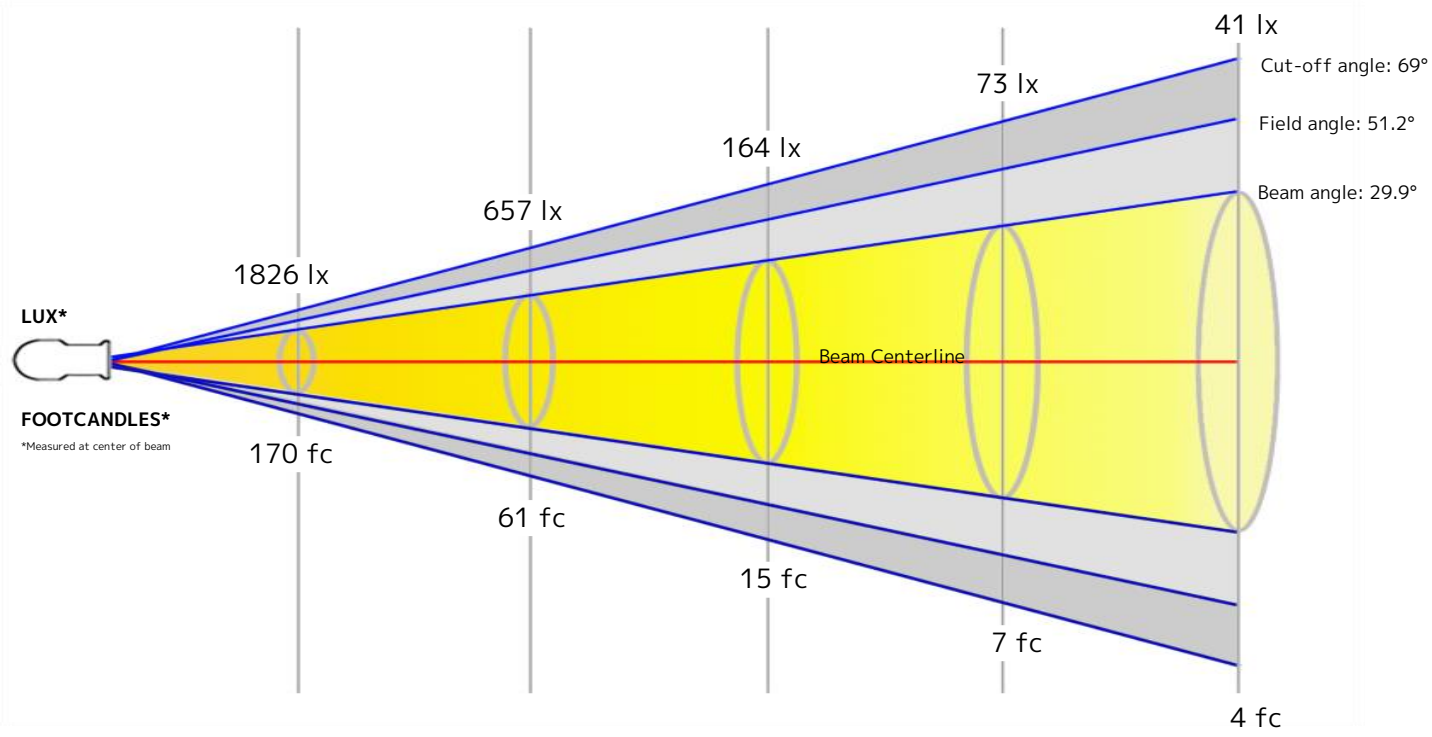
Power: 106.8 W

Supply Voltage: 119 V

Current: 0.904 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.7 m	5.3 m	8 m	10.7 m



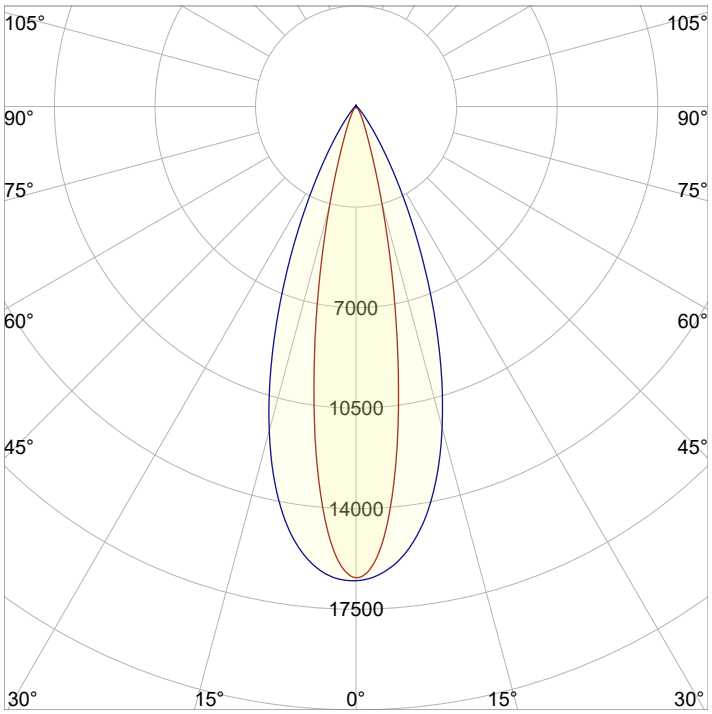
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.2 ft	8.8 ft	17.5 ft	26.3 ft	35 ft

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	16433	4108	1826	1027	657	456	335	257	203	164	136	114	97	84	73	64	57	51	46	41
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	1526.7	381.7	169.6	95.4	61.1	42.4	31.2	23.9	18.8	15.3	12.6	10.6	9	7.8	6.8	6	5.3	4.7	4.2	3.8

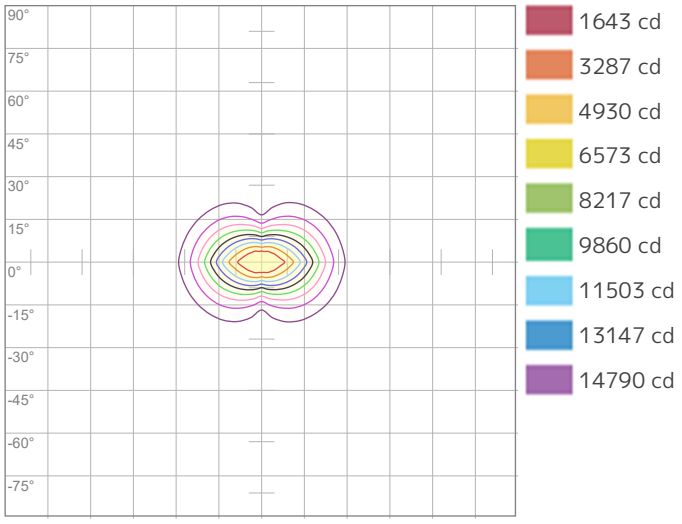
Measurement Date: 8/12/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
29.9°	39.7°
Field Angle - 10%	Field Angle - 10%
51.2°	64.9°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
69°	82.4°

ISO Diagrams

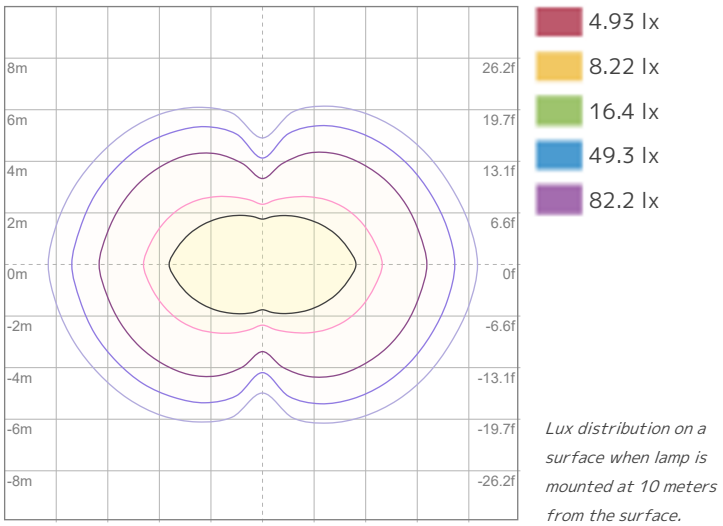


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 16433 cd



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

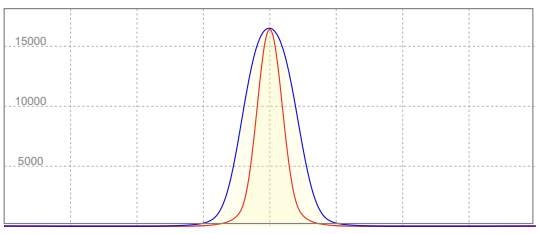
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 164 lx

Linear Distribution



Peak Candela

16498 cd

Calculate Center Beam Intensities

lux = 16498 / distance(m)^2

fc = 16498 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (1°x40°, 3200K)

Key Measurements

Output

Total Lumen Output: 5946 lm

Peak Intensity: 18352 cd

Beam

Beam Angle (50%): 30°x 39.8°

Field Angle (10%): 51.4°x 65.2°

Cutoff Angle (2.5%): 69.8°x 83.1°

Color

Color Temperature: 3169 K

CRI: 92.2

TLCI: 84

TM30 R_F: 92.1

TM30 R_g: 106.9

Power Details

Efficacy: 53 Lumen/Watt

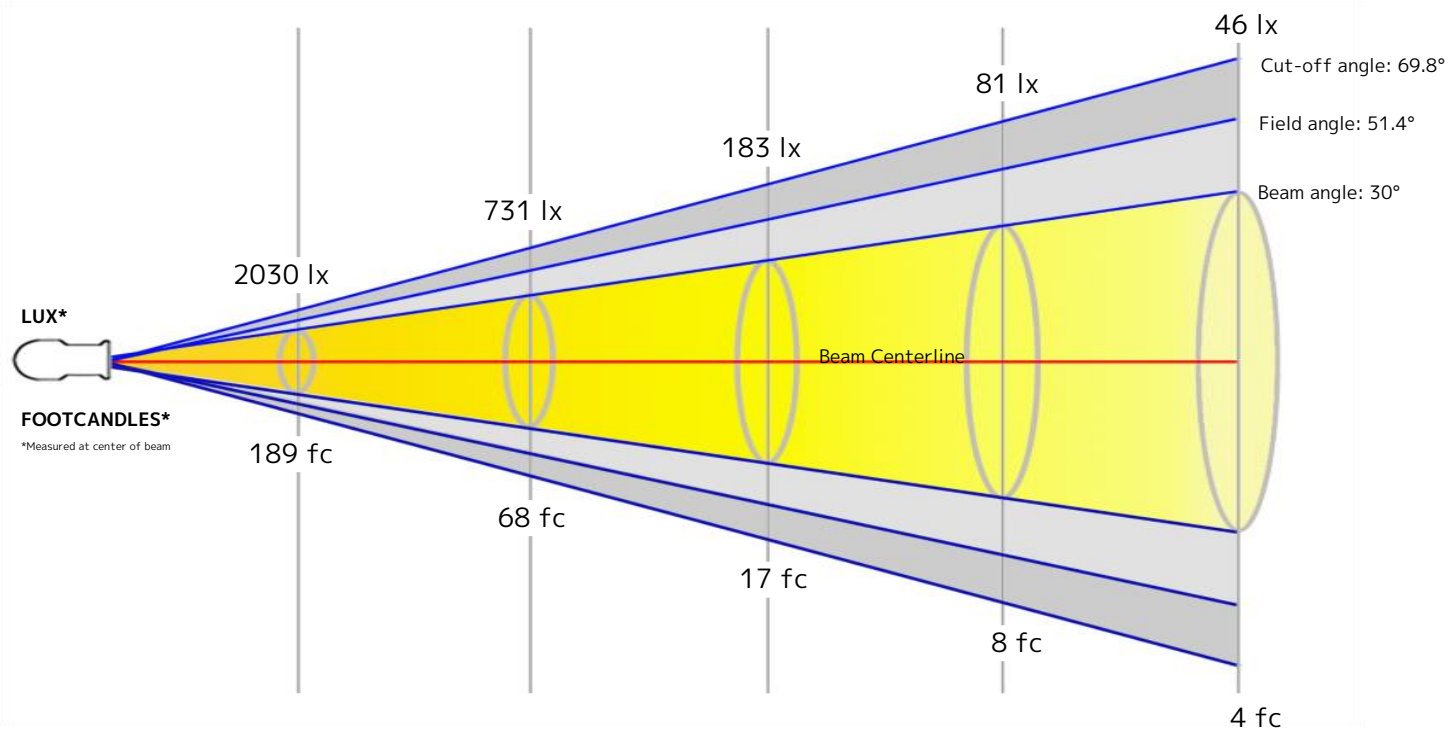
Power: 112.4 W

Supply Voltage: 118 V

Current: 0.958 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.7 m	5.4 m	8 m	10.7 m



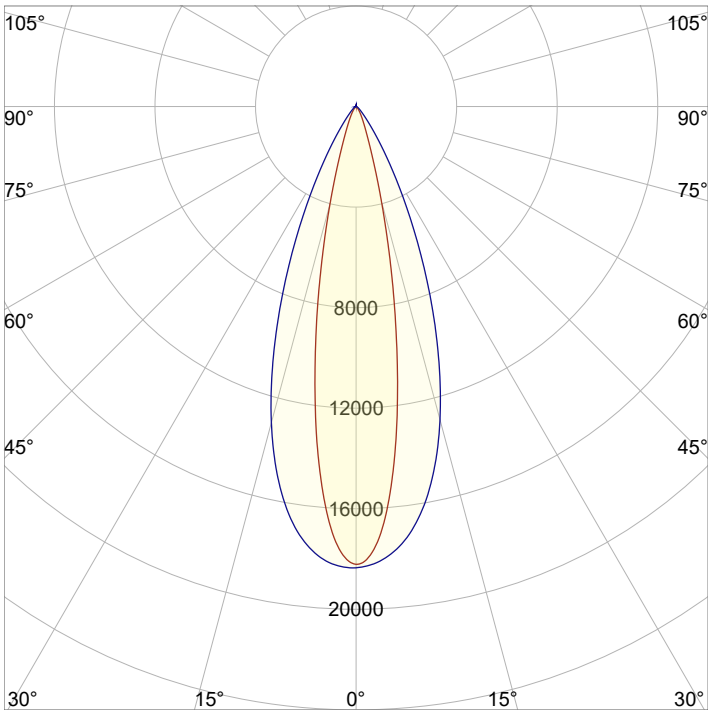
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.2 ft	8.8 ft	17.6 ft	26.3 ft	35.1 ft

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	18269	4567	2030	1142	731	507	373	285	226	183	151	127	108	93	81	71	63	56	51	46
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	1697.2	424.3	188.6	106.1	67.9	47.1	34.6	26.5	21	17	14	11.8	10	8.7	7.5	6.6	5.9	5.2	4.7	4.2

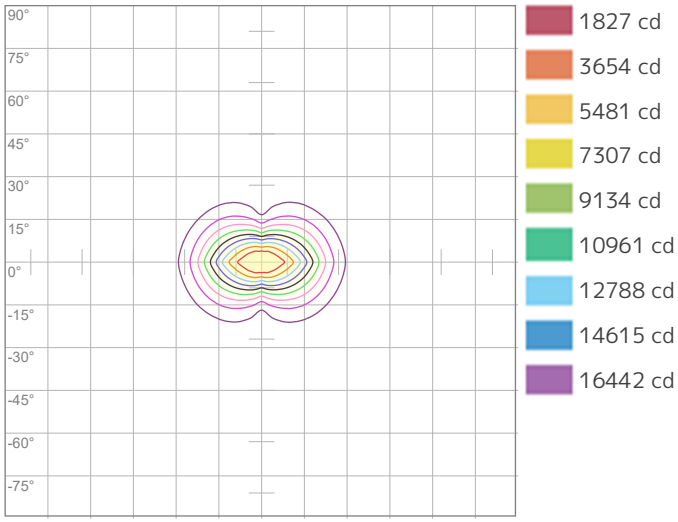
Measurement Date: 8/12/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30°	39.8°
Field Angle - 10%	Field Angle - 10%
51.4°	65.2°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
69.8°	83.1°

ISO Diagrams

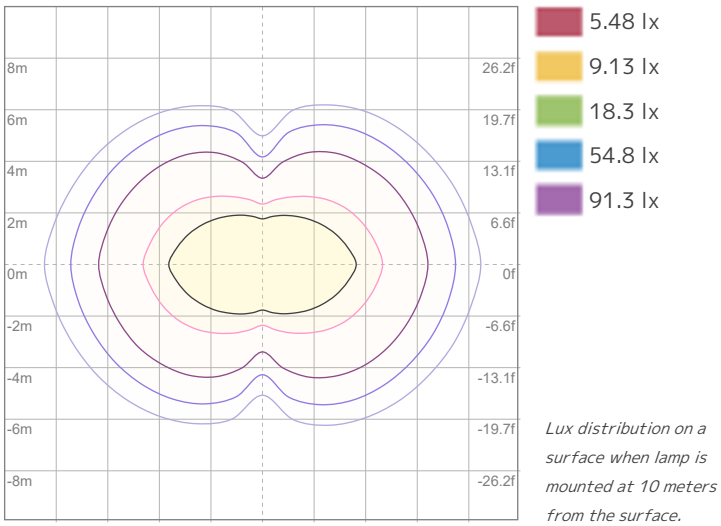


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 18269 cd



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

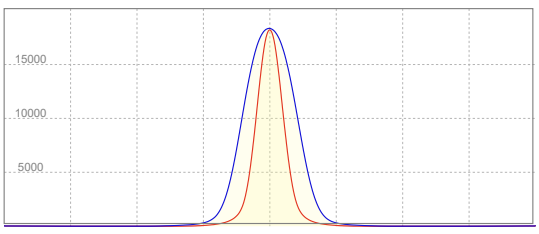
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 183 lx

Linear Distribution



Peak Candela

18352 cd

Calculate Center Beam Intensities

lux = 18352 / distance(m)^2

fc = 18352 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (1°x40°, 4500K)

Key Measurements

Output

Total Lumen Output: 6309 lm

Peak Intensity: 19422 cd

Beam

Beam Angle (50%): 30°x 39.9°

Field Angle (10%): 51.5°x 65.2°

Cutoff Angle (2.5%): 70°x 83.1°

Color

Color Temperature: 4472 K

CRI: 92.2

TLCI: 83

TM30 R_F: 90.1

TM30 R_g: 106.8

Power Details

Efficacy: 53 Lumen/Watt

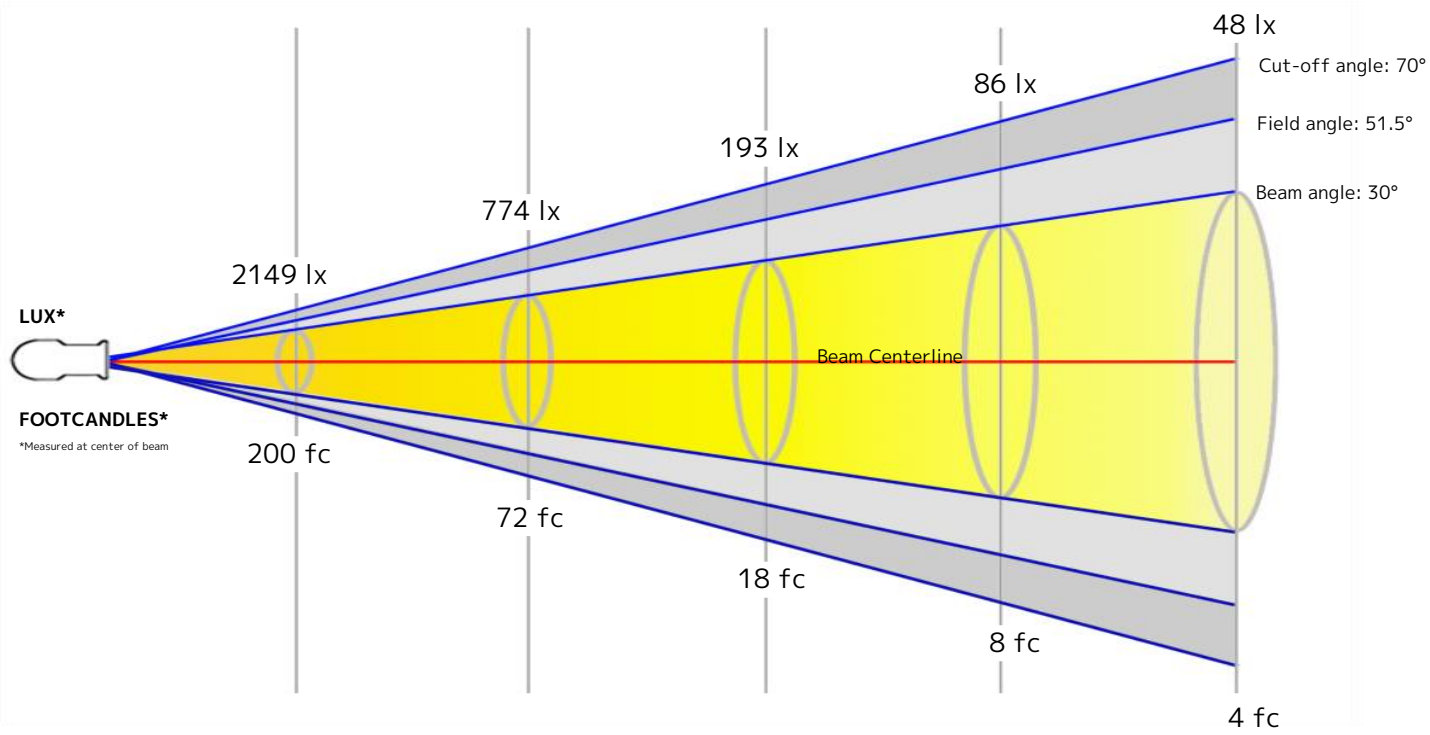
Power: 120 W

Supply Voltage: 119 V

Current: 1.01 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.7 m	5.4 m	8 m	10.7 m



Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.3 ft	8.8 ft	17.6 ft	26.4 ft	35.2 ft

Beam Intensities from 1-20m

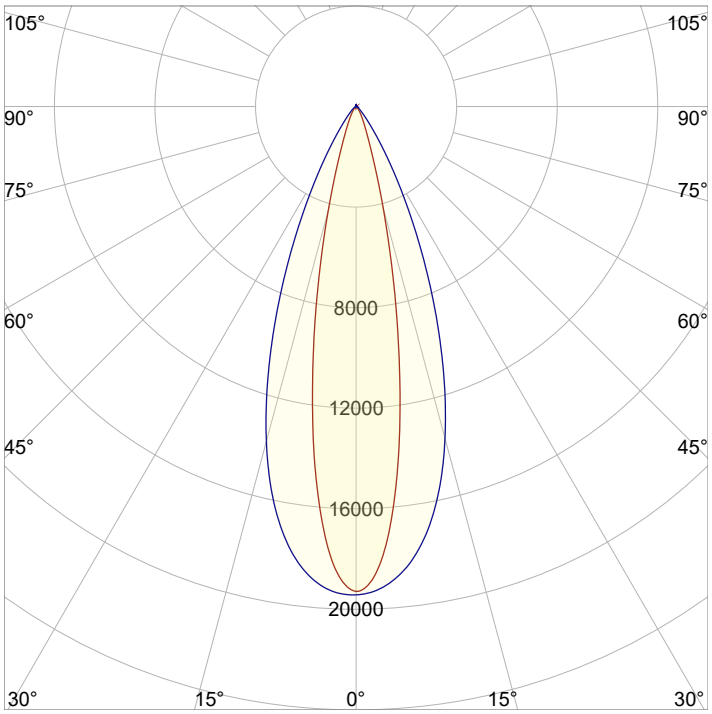
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	19340	4835	2149	1209	774	537	395	302	239	193	160	134	114	99	86	76	67	60	54	48
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1796.7	449.2	199.6	112.3	71.9	49.9	36.7	28.1	22.2	18	14.8	12.5	10.6	9.2	8	7	6.2	5.5	5	4.5

Measurement Date: 8/12/2024

Six+ Bar L (1°x40°, 4500K)

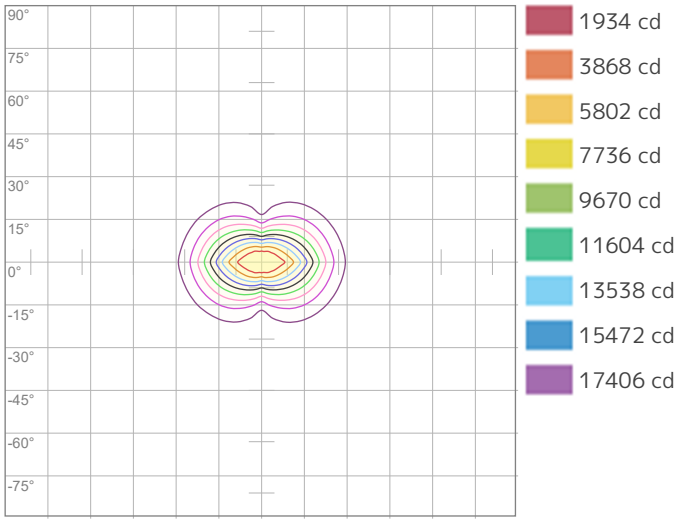
Prepared For ELATION PROFESSIONAL

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30°	39.9°
Field Angle - 10%	Field Angle - 10%
51.5°	65.2°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
70°	83.1°

ISO Diagrams

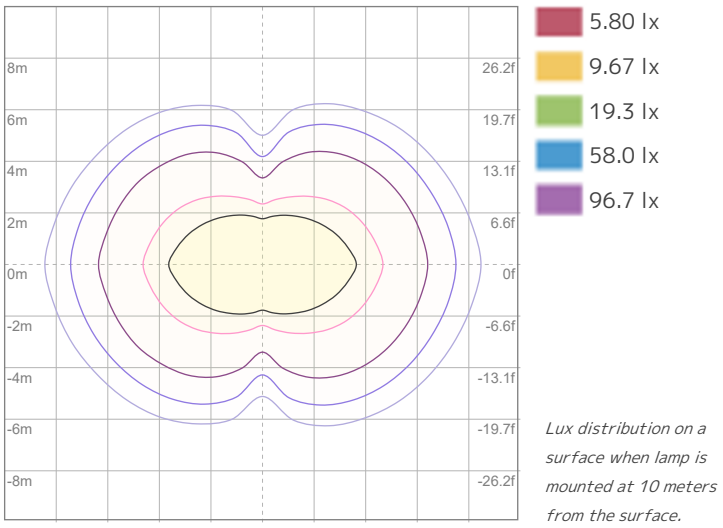


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 19340 cd



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

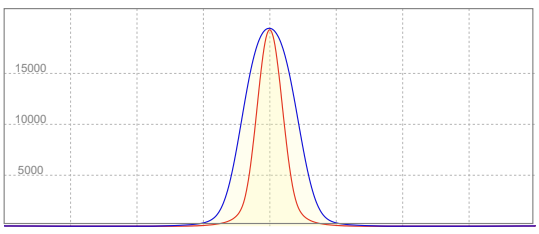
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 193 lx

Linear Distribution



Peak Candela

19422 cd

Calculate Center Beam Intensities

lux = 19422 / distance(m)^2

fc = 19422 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (1°x40°, 6500K)

Key Measurements

Output

Total Lumen Output: 6948 lm

Peak Intensity: 21146 cd

Beam

Beam Angle (50%): 30.1°x 39.9°

Field Angle (10%): 51.6°x 65.3°

Cutoff Angle (2.5%): 70.5°x 83.5°

Color

Color Temperature: 6471 K

CRI: 89.8

TLCI: 86

TM30 R_F: 88.2

TM30 R_g: 106.8

Power Details

Efficacy: 51 Lumen/Watt

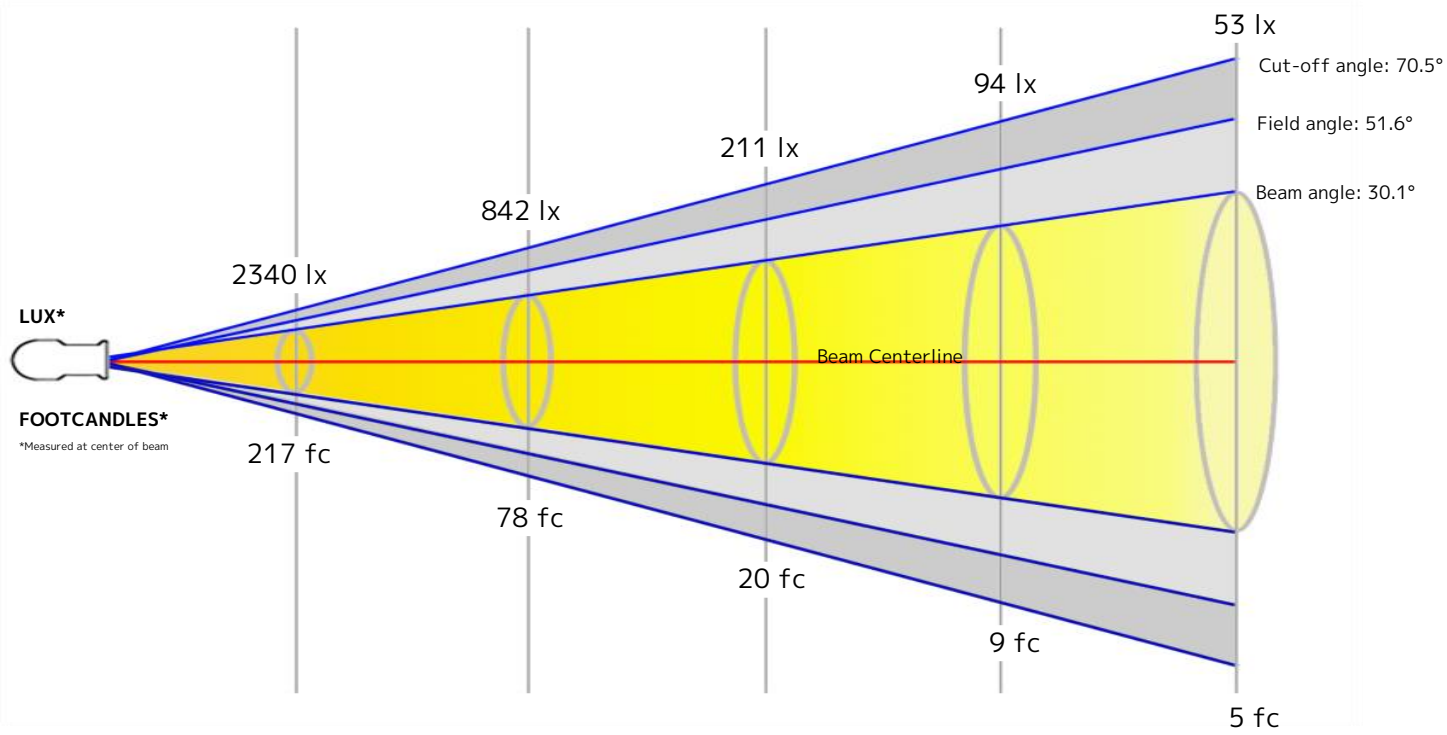
Power: 136.9 W

Supply Voltage: 119 V

Current: 1.16 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.7 m	5.4 m	8.1 m	10.7 m



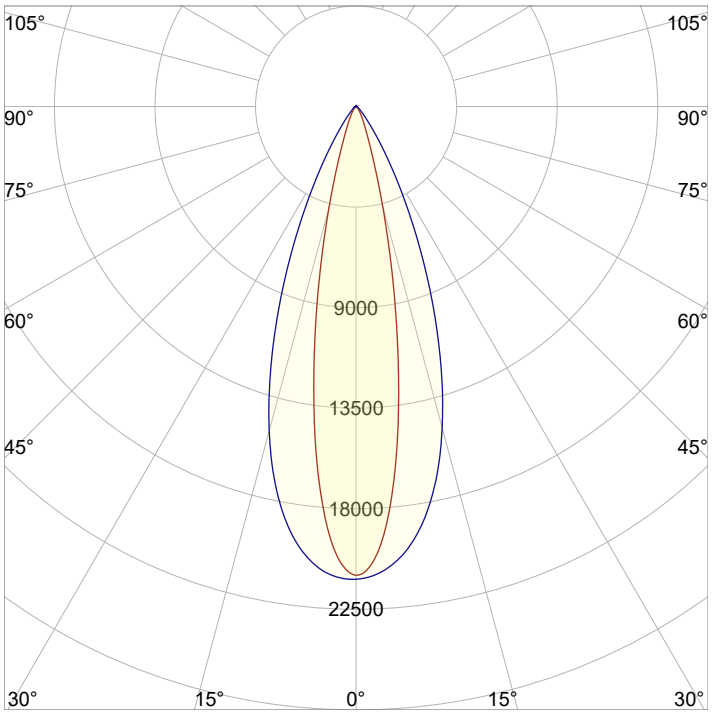
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.3 ft	8.8 ft	17.6 ft	26.4 ft	35.2 ft

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	21056	5264	2340	1316	842	585	430	329	260	211	174	146	125	107	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	1956.2	489	217.4	122.3	78.2	54.3	39.9	30.6	24.2	19.6	16.2	13.6	11.6	10	8.7	7.6	6.8	6	5.4	4.9

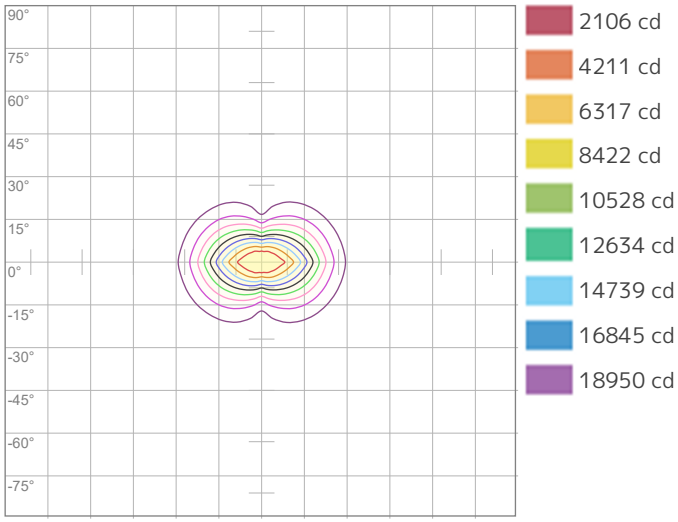
Measurement Date: 8/12/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30.1°	39.9°
Field Angle - 10%	Field Angle - 10%
51.6°	65.3°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
70.5°	83.5°

ISO Diagrams

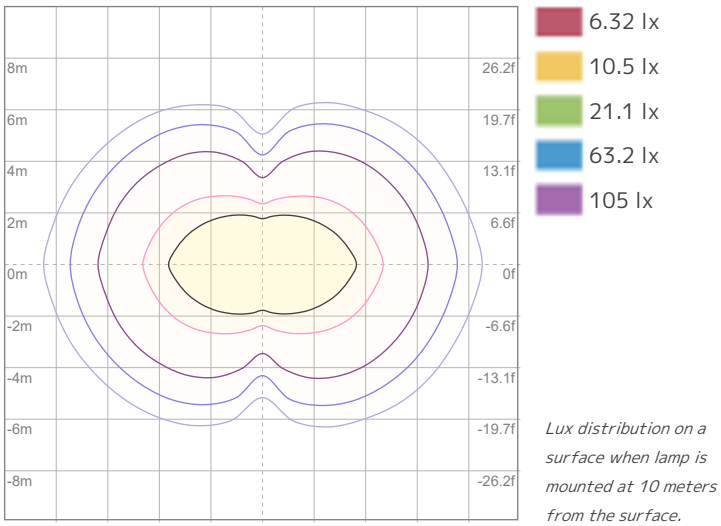


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 21056 cd



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

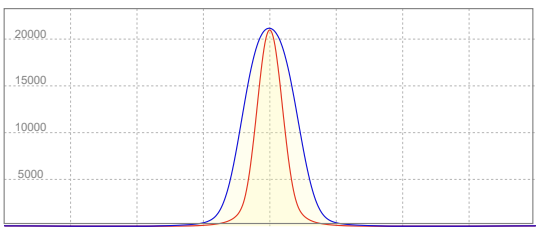
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 211 lx

Linear Distribution



Peak Candela

21146 cd

Calculate Center Beam Intensities

lux = 21146 / distance(m)^2

fc = 21146 / distance(ft)^2

Measurement Date: 8/12/2024

Six+ Bar L (1°x40°, 8500K)

Key Measurements

Output

Total Lumen Output: 7232 lm

Peak Intensity: 22023 cd

Beam

Beam Angle (50%): 30.1°x 39.9°

Field Angle (10%): 51.6°x 65.3°

Cutoff Angle (2.5%): 70.4°x 83.4°

Color

Color Temperature: 8547 K

CRI: 88.9

TLCI: 87

TM30 R_F: 86.9

TM30 R_g: 105.9

Power Details

Efficacy: 49 Lumen/Watt

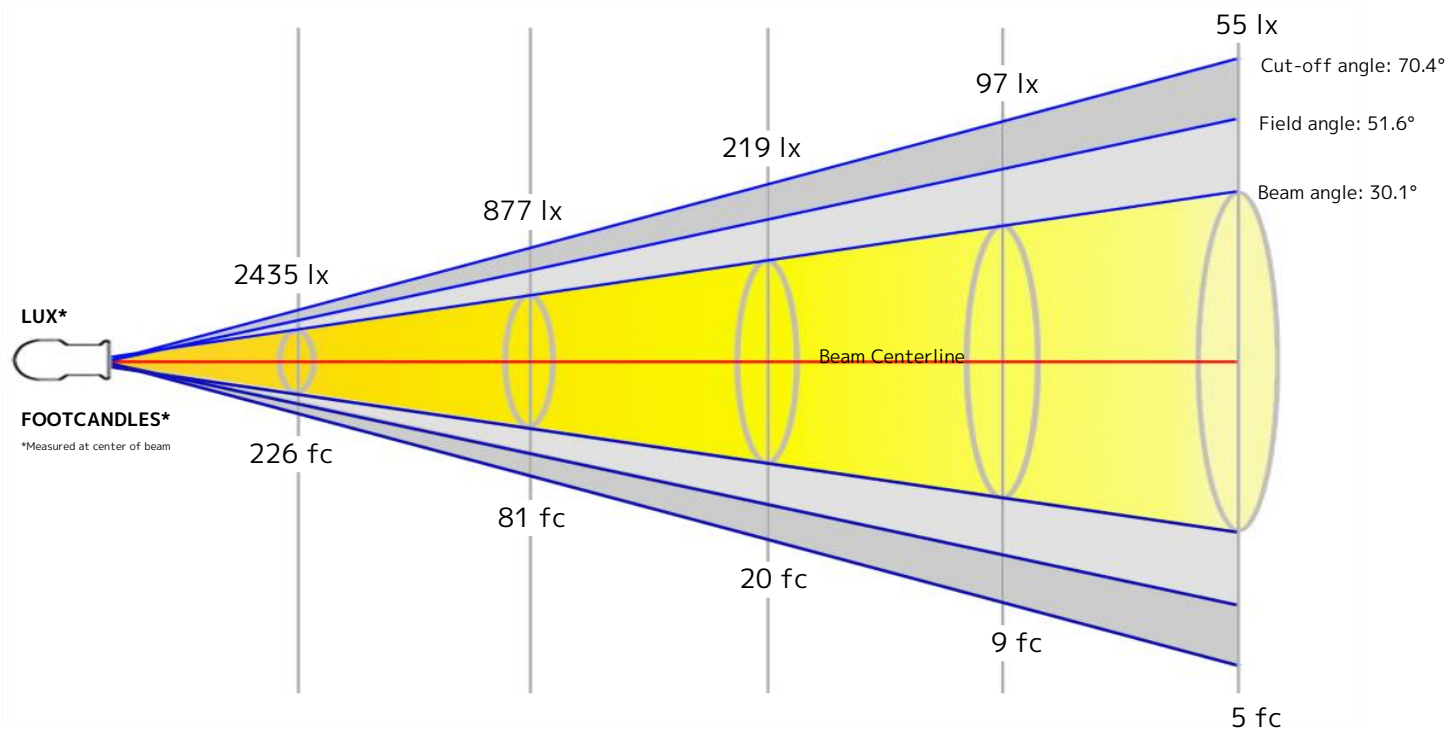
Power: 148.2 W

Supply Voltage: 117 V

Current: 1.27 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.7 m	5.4 m	8.1 m	10.7 m



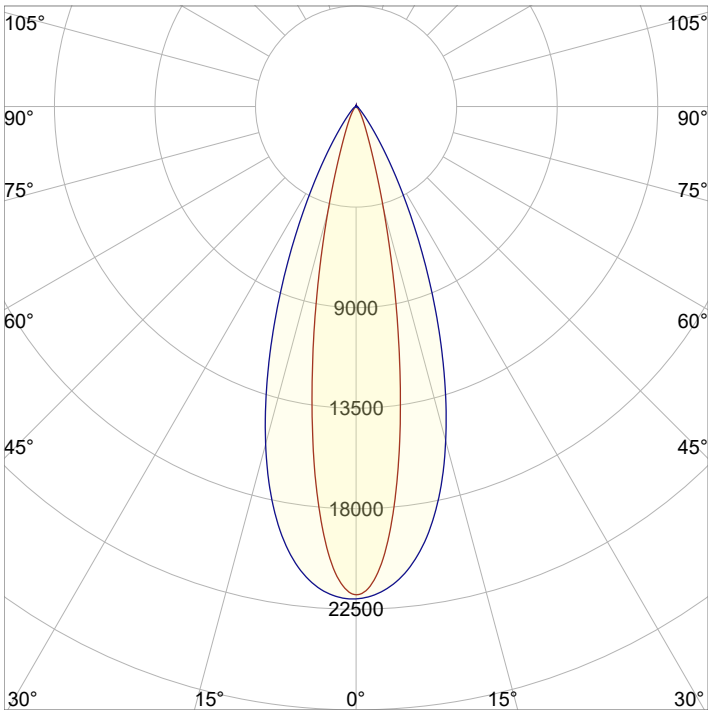
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.3 ft	8.8 ft	17.6 ft	26.4 ft	35.2 ft

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	21916	5479	2435	1370	877	609	447	342	271	219	181	152	130	112	97	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	2036.1	509	226.2	127.3	81.4	56.6	41.6	31.8	25.1	20.4	16.8	14.1	12	10.4	9	8	7	6.3	5.6	5.1

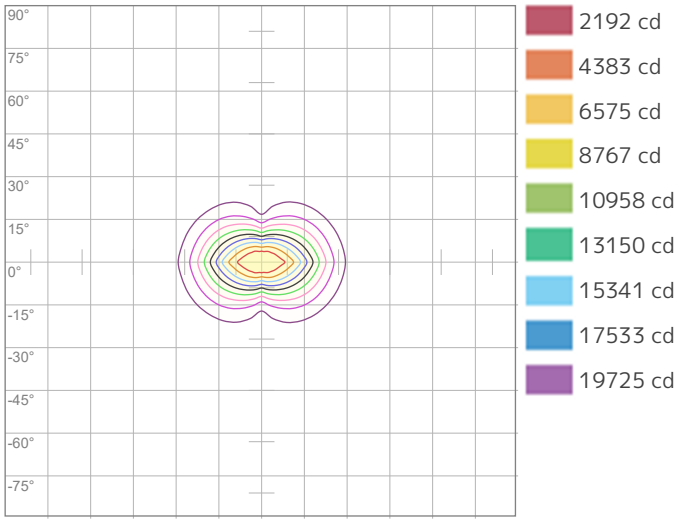
Measurement Date: 8/12/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30.1°	39.9°
Field Angle - 10%	Field Angle - 10%
51.6°	65.3°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
70.4°	83.4°

ISO Diagrams

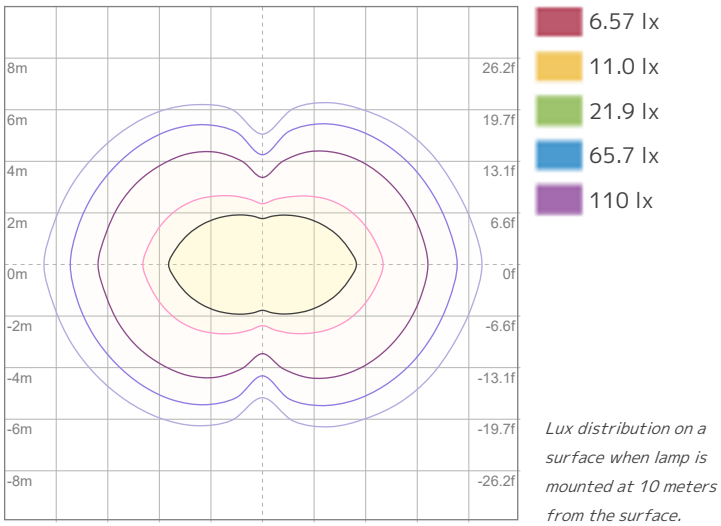


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 21916 cd



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

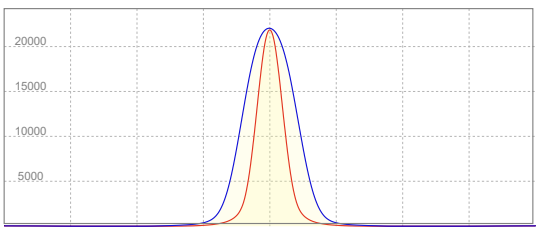
ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 219 lx

Linear Distribution



Peak Candela

22023 cd

Calculate Center Beam Intensities

lux = 22023 / distance(m)^2

fc = 22023 / distance(ft)^2

Measurement Date: 8/12/2024