SIX+ PAR S 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+ Par S (60°, Full Output- No UV)

Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 2554 lm

Peak Intensity: 2601 cd

Beam

Beam Angle (50%): 52.8°

Field Angle (10%): 101.6°

Cutoff Angle (2.5%): 129.9°

Color

Color Temperature: 7327 K

CRI: 68.2

TLCI: 79

TM30 R_F: 78.3

TM30 R_g: 119.6

Power Details

Efficacy: 42 Lumen/Watt

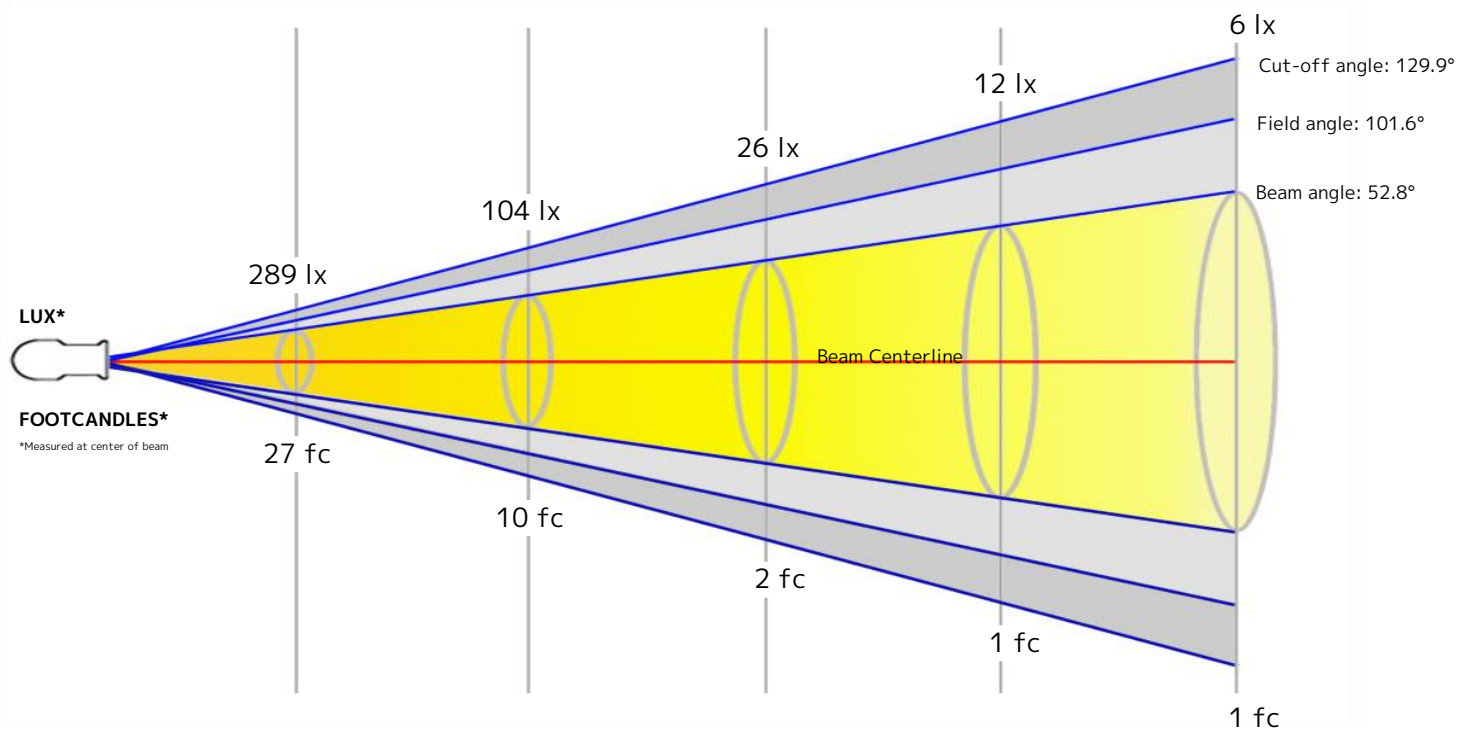
Power: 60.4 W

Supply Voltage: 121 V

Current: 0.509 A

Beam Details

Distance	3 m 3	5 m	10 m	15 m	20 m
Beam Width	m	5 m	9.9 m	14.9 m	19.9 m



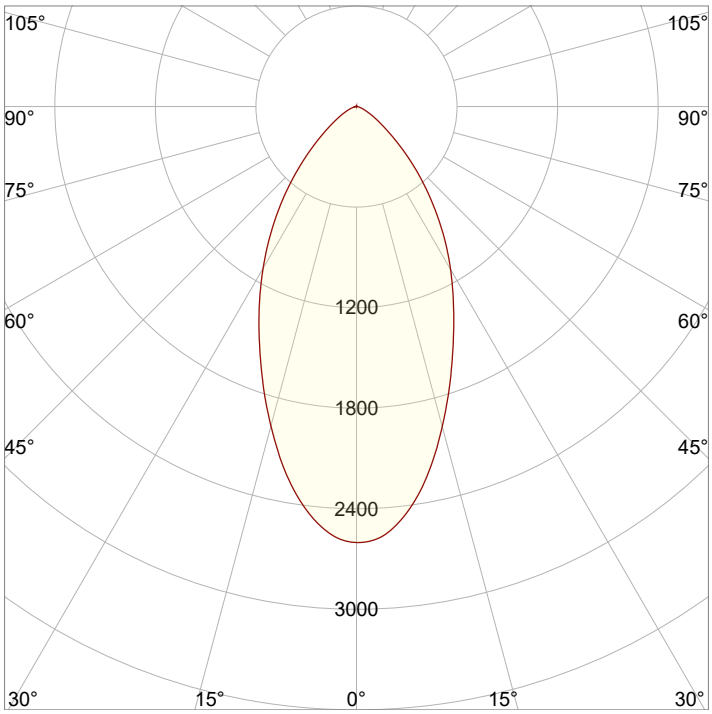
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	9.7 ft	16.3 ft	32.6 ft	48.9 ft	65.2 ft

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	2598	649	289	162	104	72	53	41	32	26	21	18	15	13	12	10	9	8	7	6
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	241.3	60.3	26.8	15.1	9.7	6.7	4.9	3.8	3	2.4	2	1.7	1.4	1.2	1.1	0.9	0.8	0.7	0.7	0.6

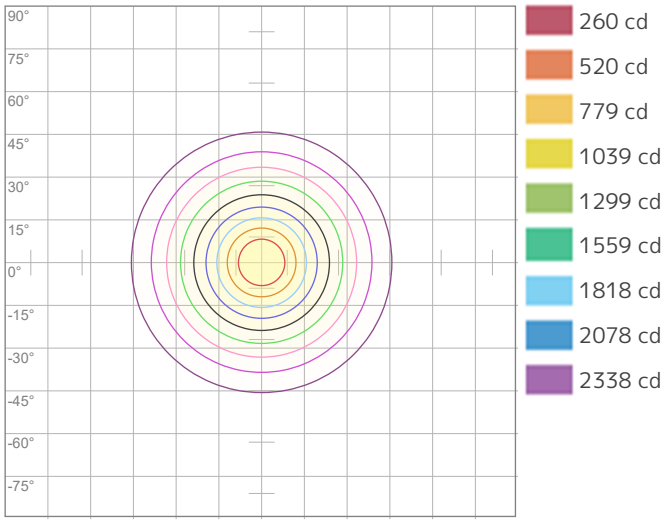
Measurement Date: 6/18/2024

Angular Distribution



Beam Angle - 50%
52.8°
Field Angle - 10%
101.6°
Cutoff Angle - 2.5%
129.9°

ISO Diagrams

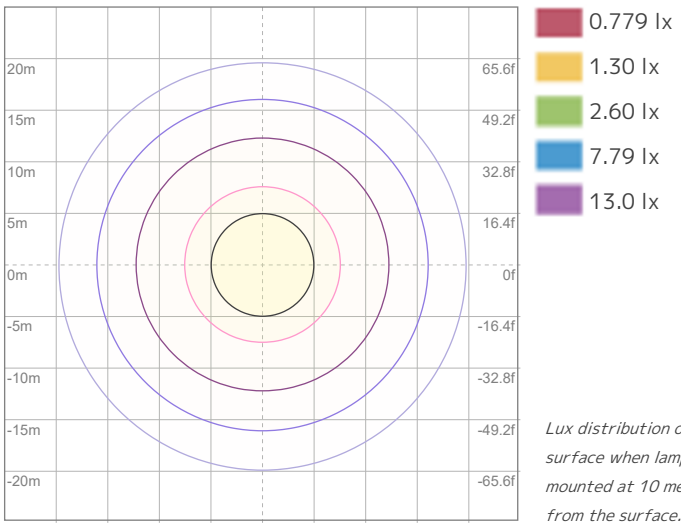


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2598 cd



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

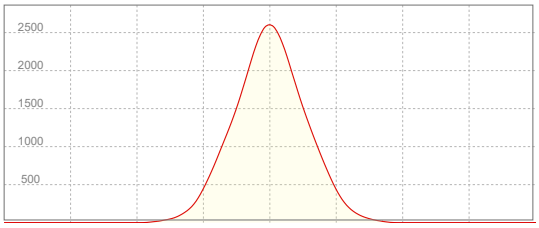
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 26.0 lx

Linear Distribution



Peak Candela

2601 cd

Calculate Center Beam Intensities

lux = 2601 / distance(m)^2

fc = 2601 / distance(ft)^2

Measurement Date: 6/18/2024

Six+ Par S (60°, Full Output)

Key Measurements

Output

Total Lumen Output: 2231 lm

Peak Intensity: 2273 cd

Beam

Beam Angle (50%): 52.8°

Field Angle (10%): 101.7°

Cutoff Angle (2.5%): 129.7°

Color

Color Temperature: 7827 K

CRI: 66.3

TLCI: 77

TM30 R_F: 76.6

TM30 R_g: 120.2

Power Details

Efficacy: 37 Lumen/Watt

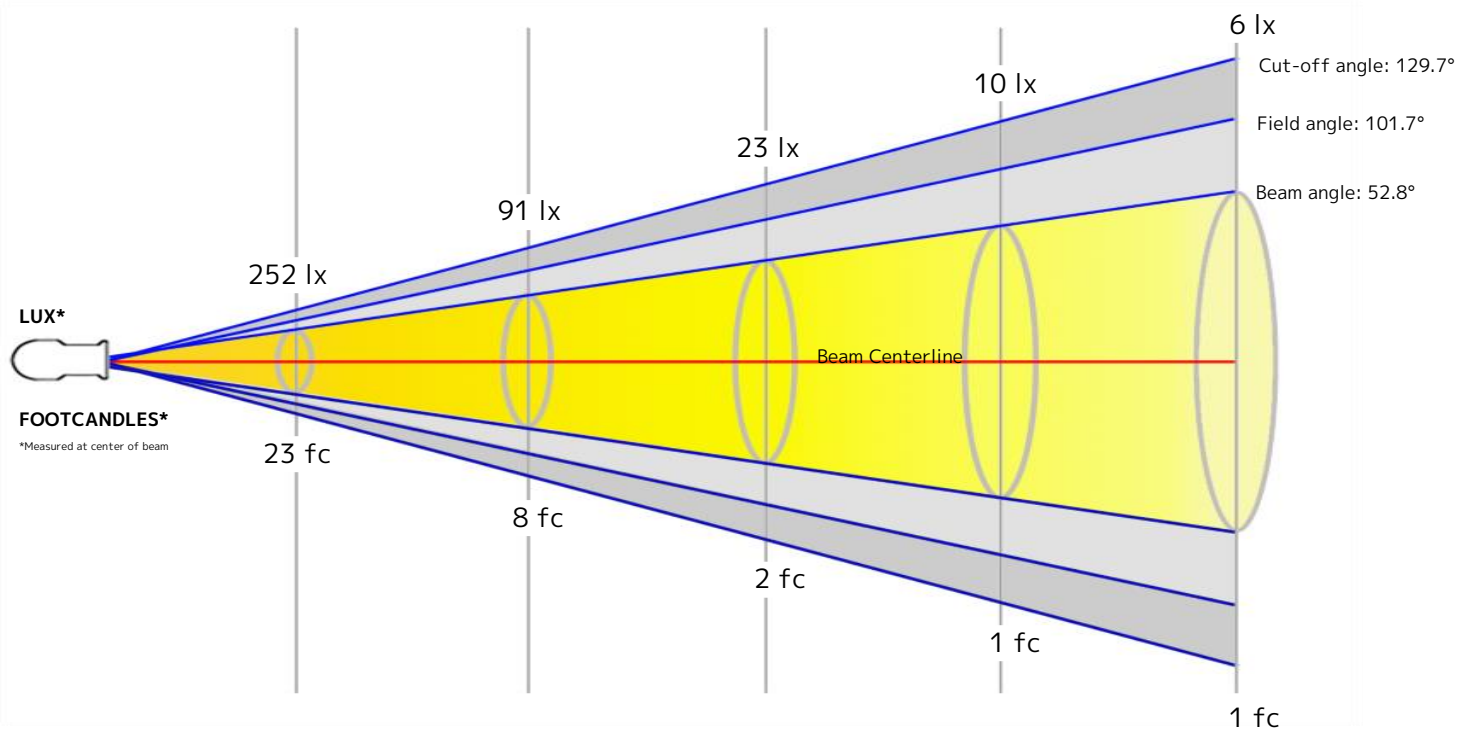
Power: 60.6 W

Supply Voltage: 121 V

Current: 0.511 A

Beam Details

Distance	3 m 3	5 m	10 m	15 m	20 m
Beam Width	m	5 m	9.9 m	14.9 m	19.9 m



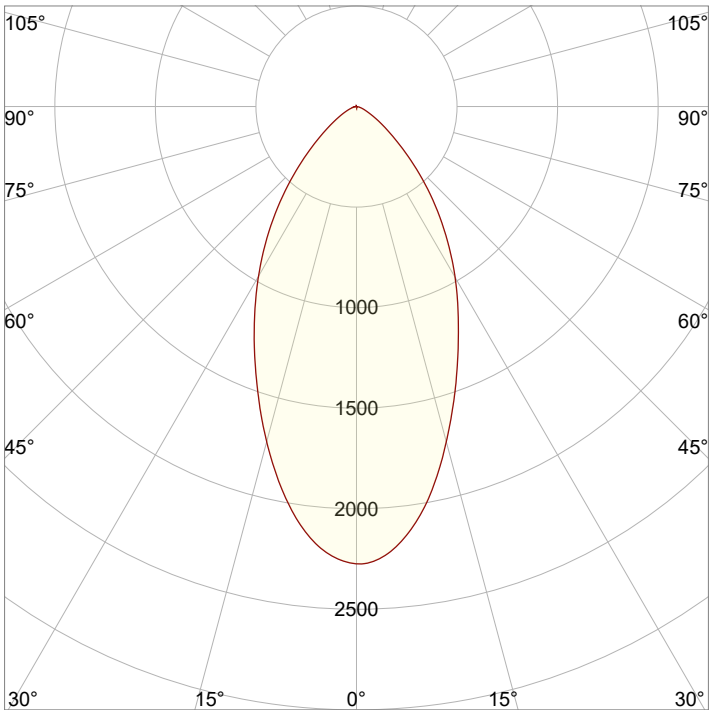
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	9.7 ft	16.3 ft	32.6 ft	48.9 ft	65.1 ft

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	2267	567	252	142	91	63	46	35	28	23	19	16	13	12	10	9	8	7	6	6
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	210.7	52.7	23.4	13.2	8.4	5.9	4.3	3.3	2.6	2.1	1.7	1.5	1.2	1.1	0.9	0.8	0.7	0.7	0.6	0.5

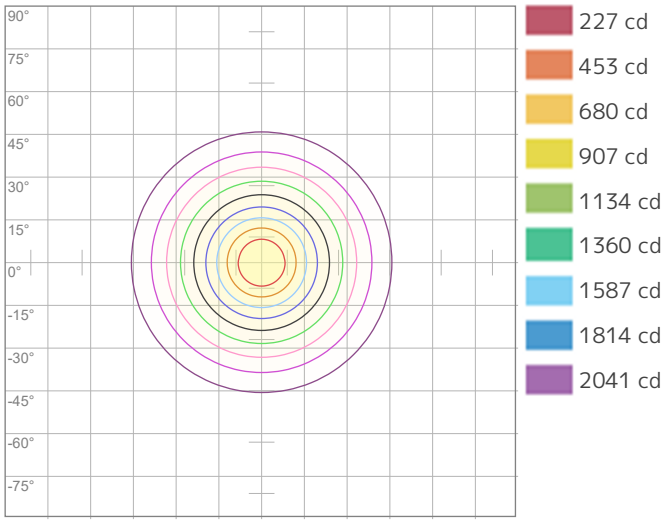
Measurement Date: 6/18/2024

Angular Distribution



Beam Angle - 50%
52.8°
Field Angle - 10%
101.7°
Cutoff Angle - 2.5%
129.7°

ISO Diagrams

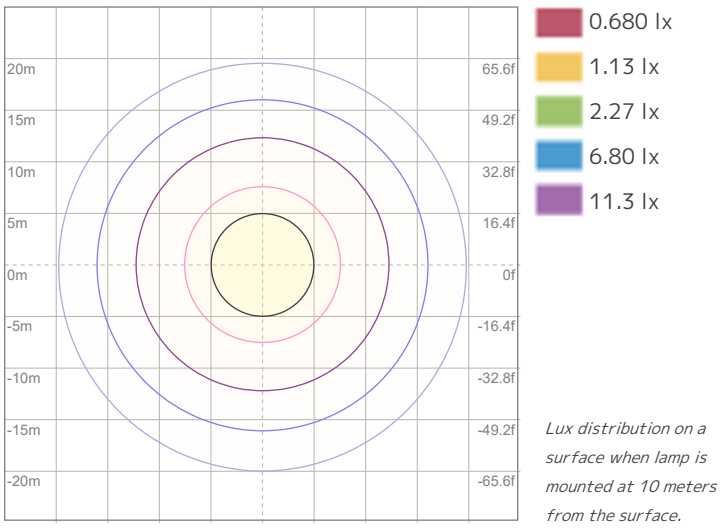


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2267 cd



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

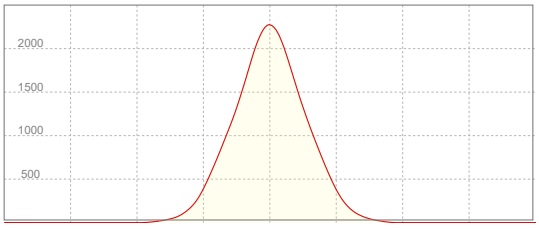
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 22.7 lx

Linear Distribution



Peak Candela

2273 cd

Calculate Center Beam Intensities

lux = 2273 / distance(m)^2

fc = 2273 / distance(ft)^2

Measurement Date: 6/18/2024

Key Measurements

Output

Total Lumen Output: 2665 lm

Peak Intensity: 2731 cd

Beam

Beam Angle (50%): 52.8°

Field Angle (10%): 101.5°

Cutoff Angle (2.5%): 128.5°

Color

Color Temperature: 2458 K

CRI: 85.2

TLCI: 73

TM30 R_F: 88.4

TM30 R_g: 103.8

Power Details

Efficacy: 49 Lumen/Watt

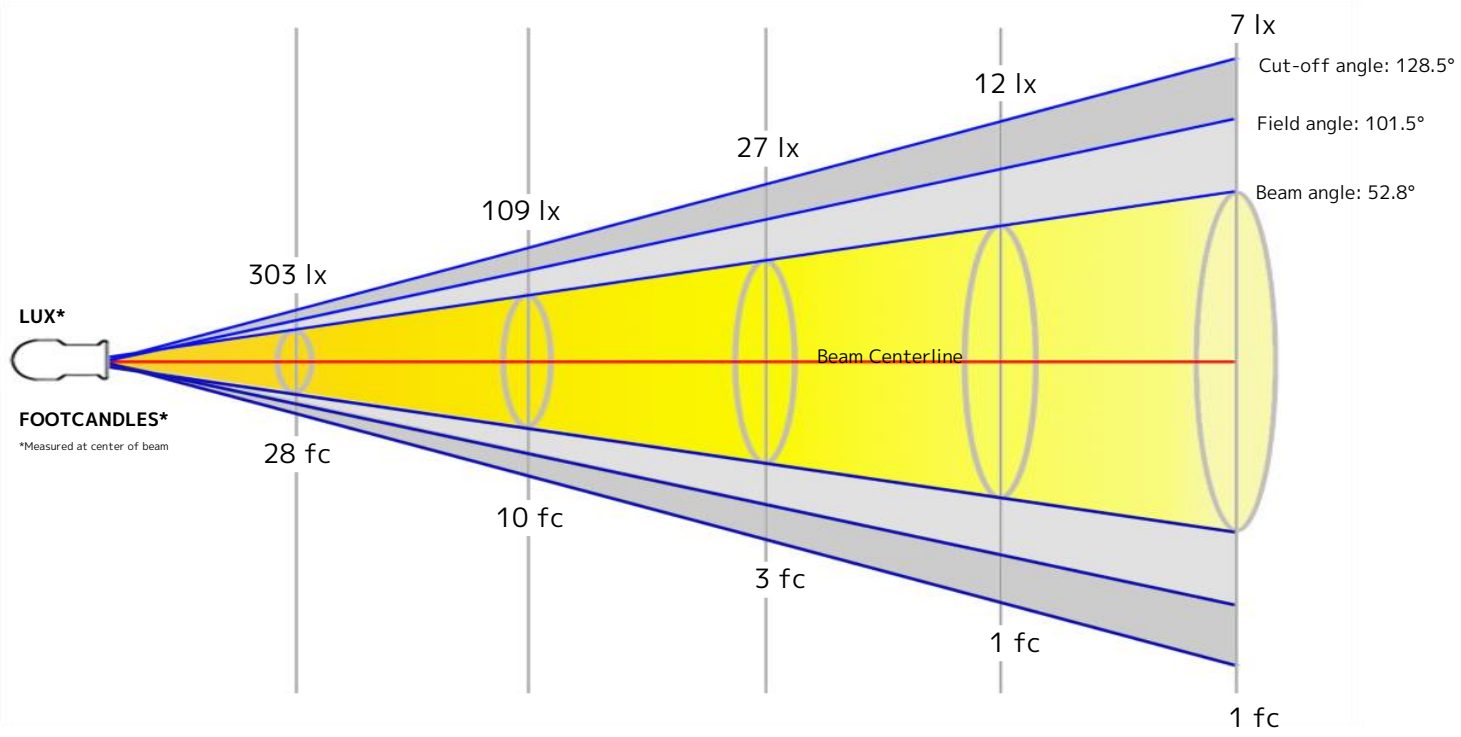
Power: 54.6 W

Supply Voltage: 119 V

Current: 0.468 A

Beam Details

Distance	3 m 3	5 m	10 m	15 m	20 m
Beam Width	m	5 m	9.9 m	14.9 m	19.9 m



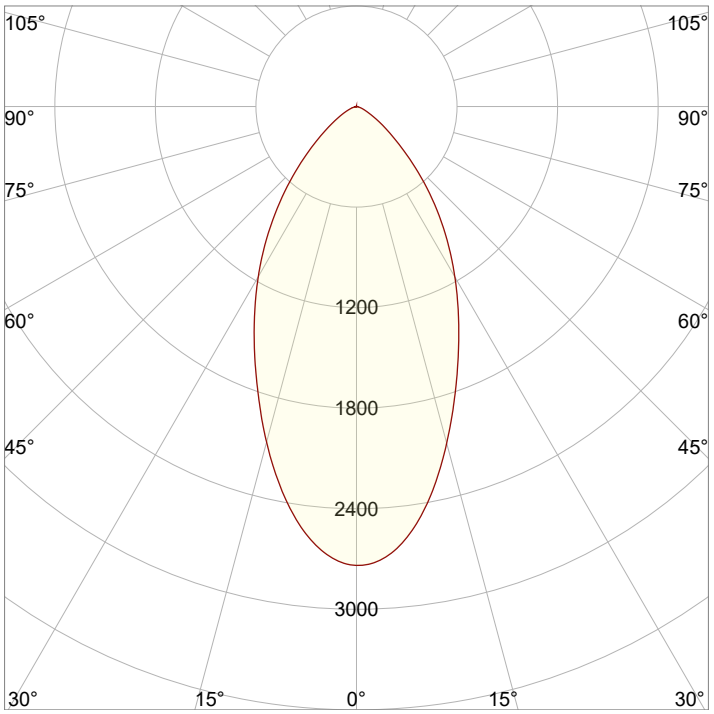
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	9.7 ft	16.3 ft	32.6 ft	48.9 ft	65.2 ft

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	2730	683	303	171	109	76	56	43	34	27	23	19	16	14	12	11	9	8	8	7
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	253.6	63.4	28.2	15.9	10.1	7	5.2	4	3.1	2.5	2.1	1.8	1.5	1.3	1.1	1	0.9	0.8	0.7	0.6

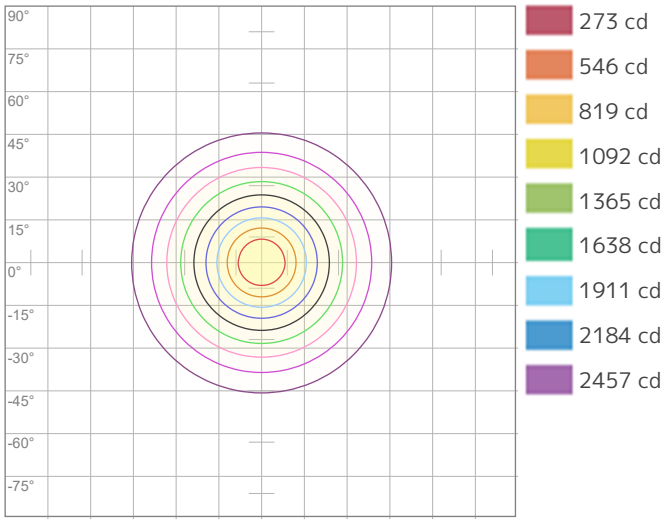
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
52.8°
Field Angle - 10%
101.5°
Cutoff Angle - 2.5%
128.5°

ISO Diagrams

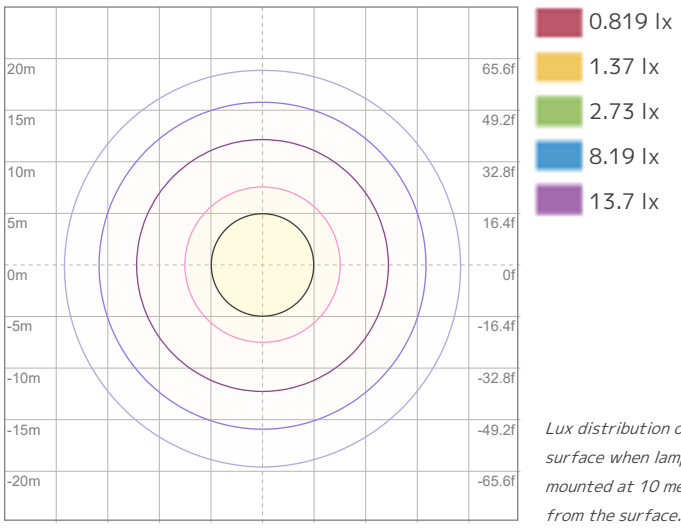


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2730 cd



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

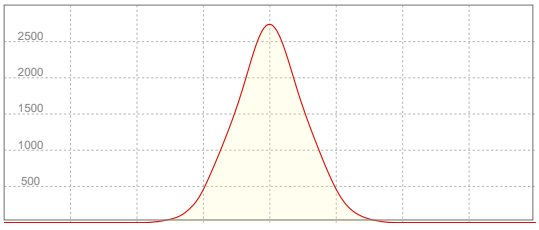
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 27.3 lx

Linear Distribution



Peak Candela

2731 cd

Calculate Center Beam Intensities

lux = 2731 / distance(m)^2

fc = 2731 / distance(ft)^2

Measurement Date: 6/19/2024

Six+ Par S (60°, 3200K)

Key Measurements

Output

Total Lumen Output: 3409 lm

Peak Intensity: 3451 cd

Beam

Beam Angle (50%): 53°

Field Angle (10%): 102.1°

Cutoff Angle (2.5%): 130.1°

Color

Color Temperature: 3250 K

CRI: 90.1

TLCI: 79

TM30 R_F: 91.4

TM30 R_g: 106.8

Power Details

Efficacy: 52 Lumen/Watt

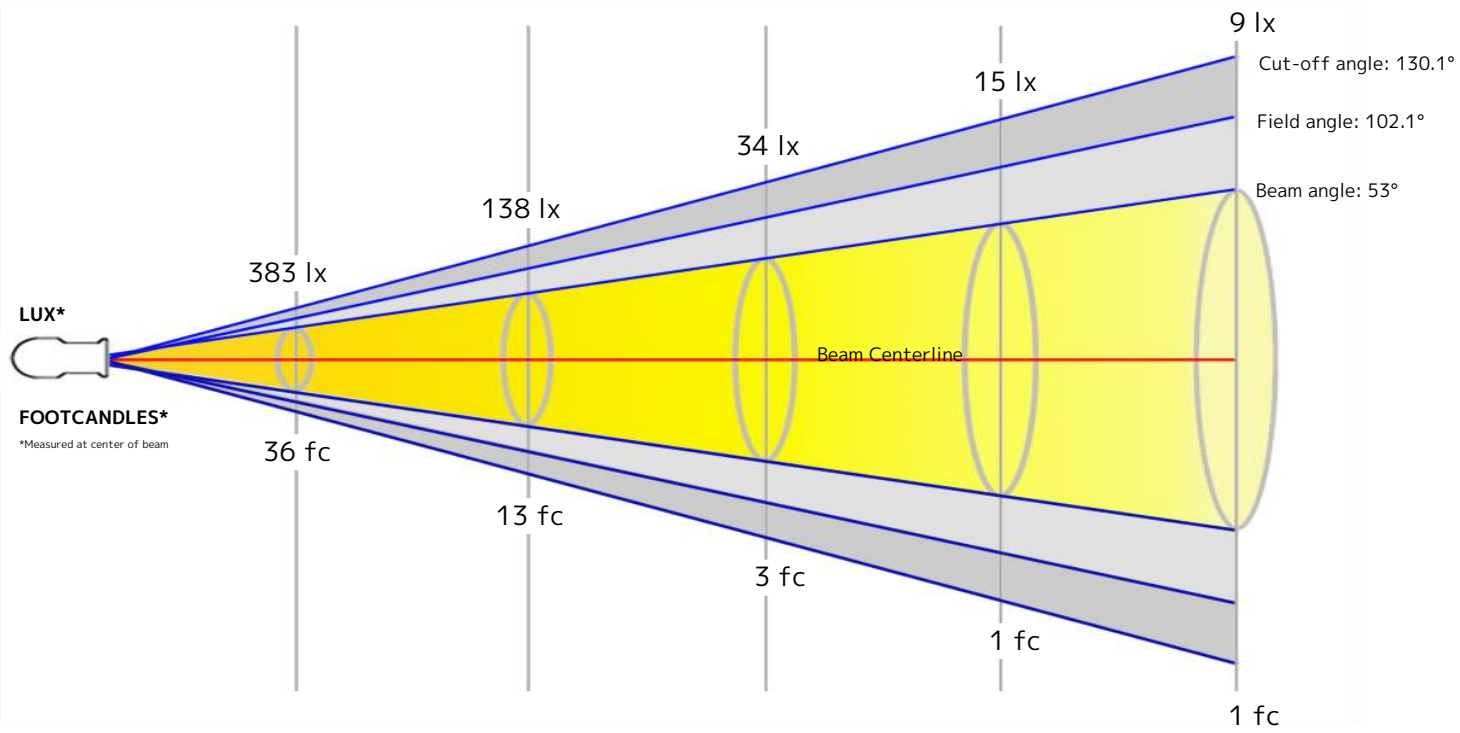
Power: 65.2 W

Supply Voltage: 119 V

Current: 0.556 A

Beam Details

Distance	3 m 3	5 m	10 m	15 m	20 m
Beam Width	m	5 m	10 m	15 m	20 m



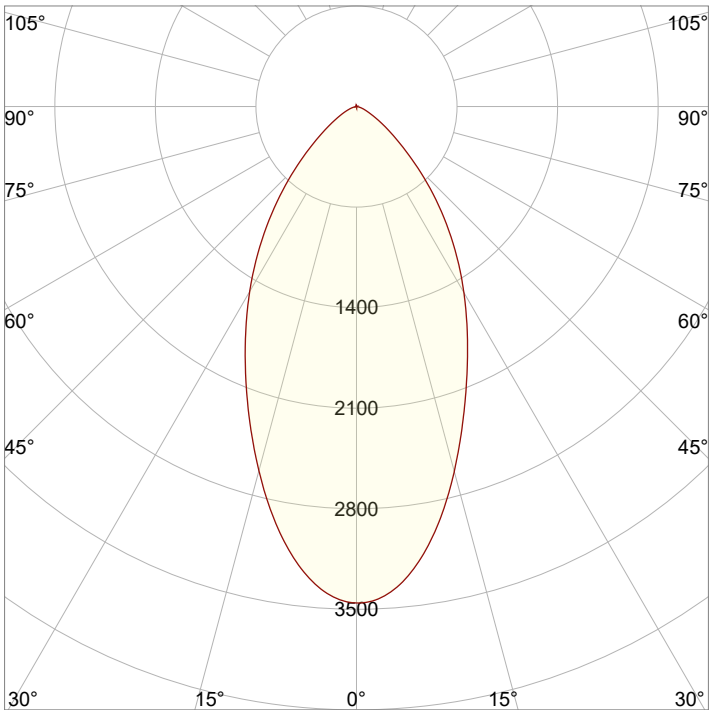
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	9.8 ft	16.4 ft	32.7 ft	49.1 ft	65.4 ft

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	3448	862	383	215	138	96	70	54	43	34	28	24	20	18	15	13	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	320.3	80.1	35.6	20	12.8	8.9	6.5	5	4	3.2	2.6	2.2	1.9	1.6	1.4	1.3	1.1	1	0.9	0.8

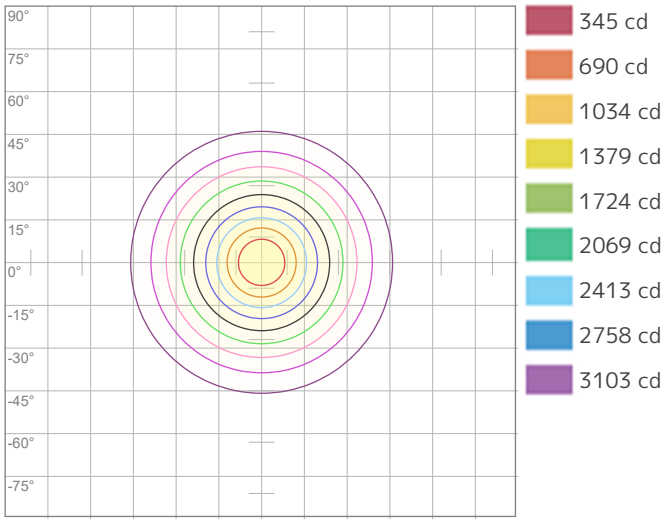
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
53°
Field Angle - 10%
102.1°
Cutoff Angle - 2.5%
130.1°

ISO Diagrams

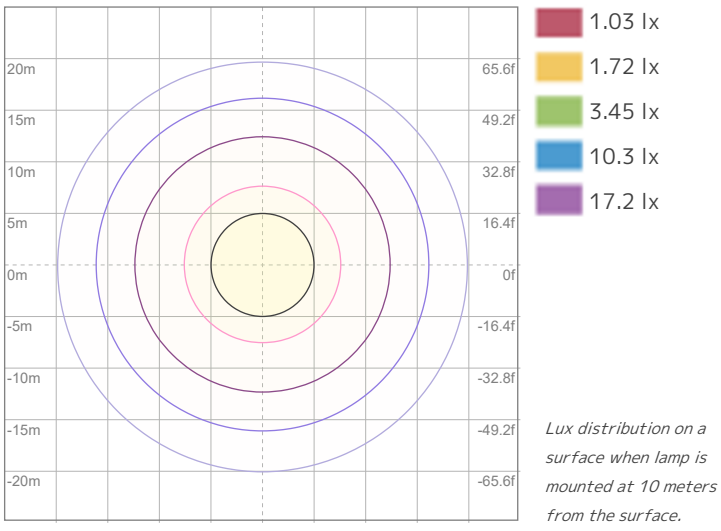


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 3448 cd



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

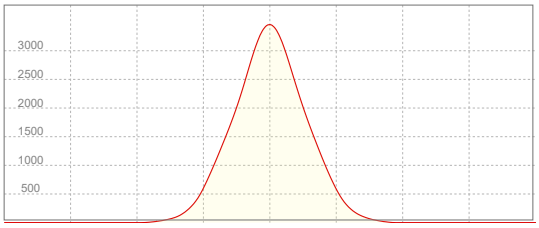
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 34.5 lx

Linear Distribution



Peak Candela

3451 cd

Calculate Center Beam Intensities

$lux = 3451 / distance(m)^2$

$fc = 3451 / distance(ft)^2$

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 2838 lm

Peak Intensity: 2888 cd

Beam

Beam Angle (50%): 52.8°

Field Angle (10%): 101.7°

Cutoff Angle (2.5%): 130°

Color

Color Temperature: 4558 K

CRI: 89.9

TLCI: 83

TM30 R_F: 90.7

TM30 R_g: 107.6

Power Details

Efficacy: 49 Lumen/Watt

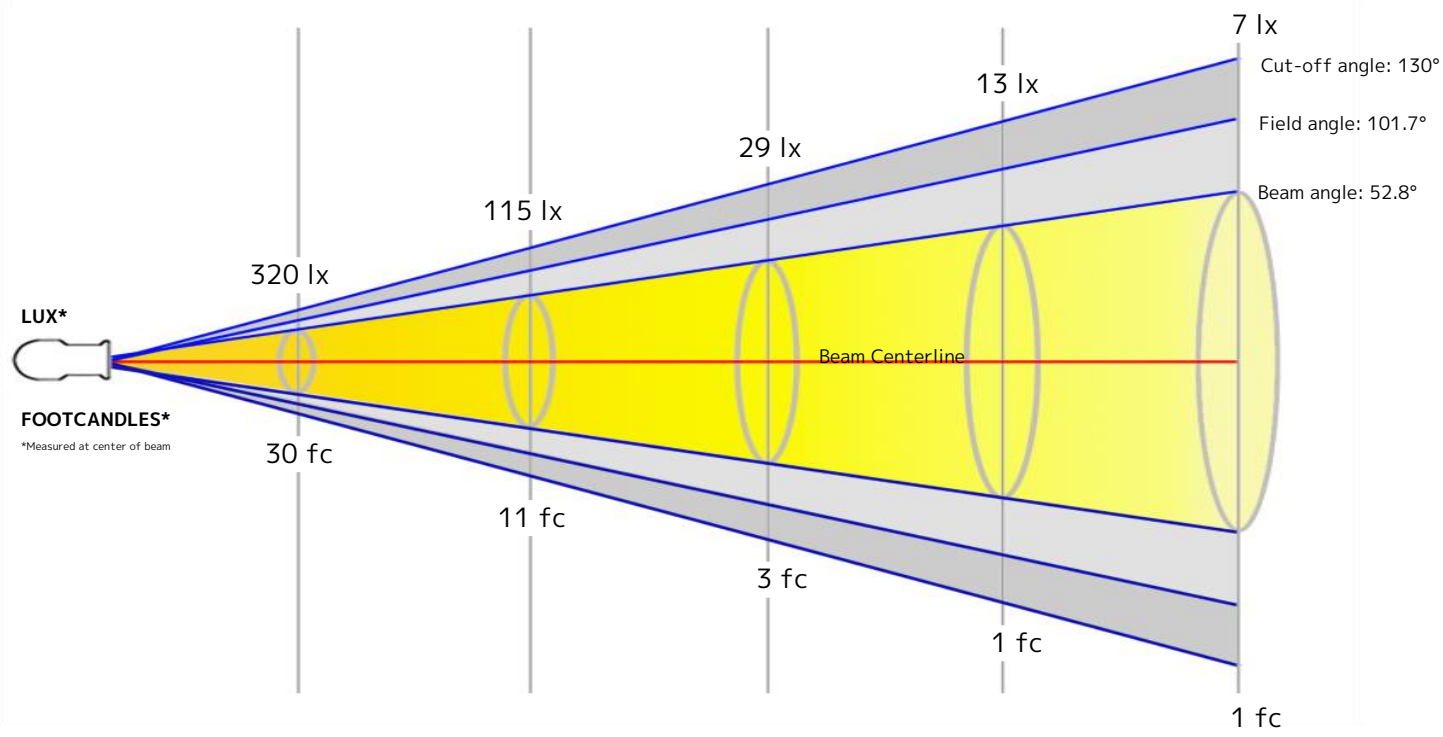
Power: 58.2 W

Supply Voltage: 121 V

Current: 0.490 A

Beam Details

Distance	3 m 3	5 m	10 m	15 m	20 m
Beam Width	m	5 m	9.9 m	14.9 m	19.9 m



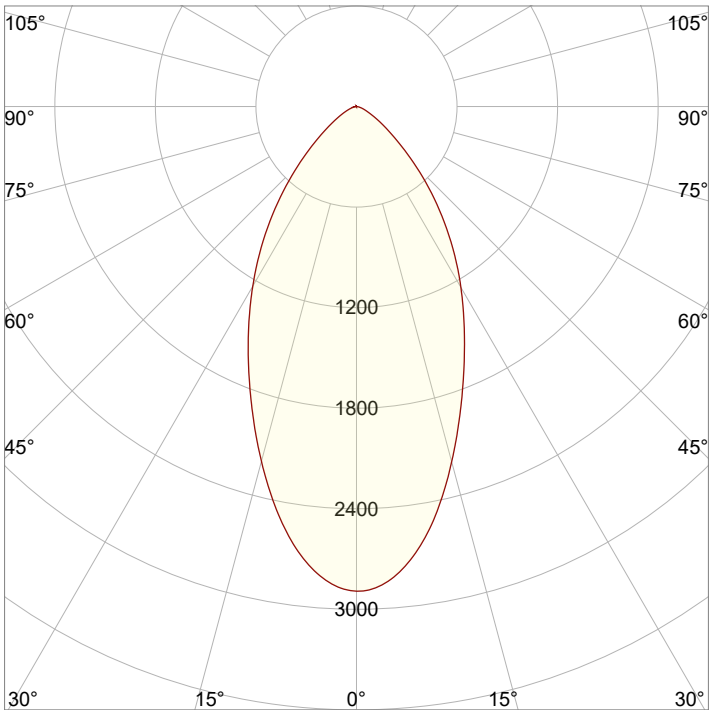
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	9.7 ft	16.3 ft	32.6 ft	48.9 ft	65.2 ft

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	2883	721	320	180	115	80	59	45	36	29	24	20	17	15	13	11	10	9	8	7
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	267.9	67	29.8	16.7	10.7	7.4	5.5	4.2	3.3	2.7	2.2	1.9	1.6	1.4	1.2	1	0.9	0.8	0.7	0.7

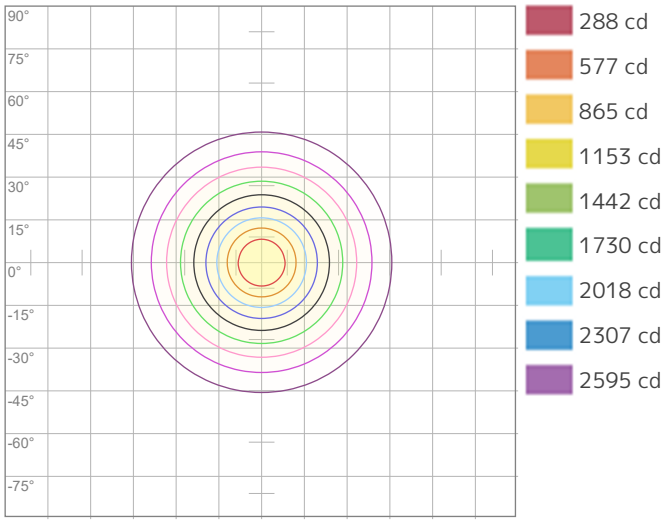
Measurement Date: 6/18/2024

Angular Distribution



Beam Angle - 50%
52.8°
Field Angle - 10%
101.7°
Cutoff Angle - 2.5%
130°

ISO Diagrams

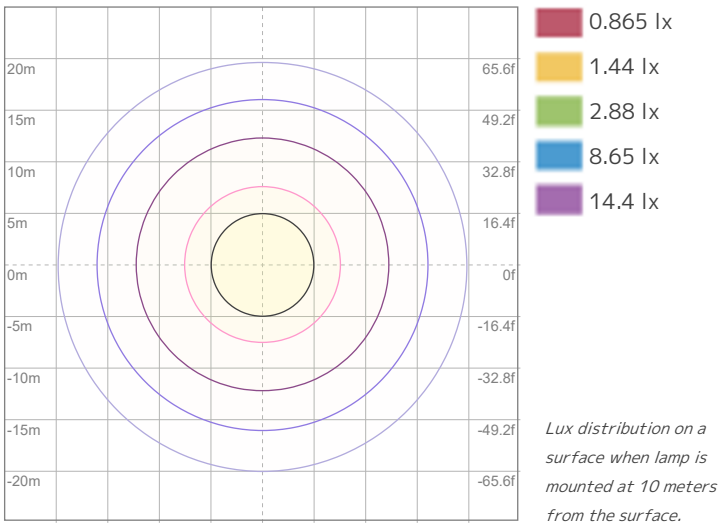


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2883 cd



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

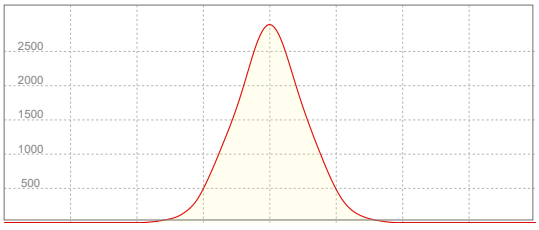
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 28.8 lx

Linear Distribution



Peak Candela

2888 cd

Calculate Center Beam Intensities

lux = 2888 / distance(m)^2

fc = 2888 / distance(ft)^2

Measurement Date: 6/18/2024

Key Measurements

Output

Total Lumen Output: 2806 lm

Peak Intensity: 2851 cd

Beam

Beam Angle (50%): 52.9°

Field Angle (10%): 101.7°

Cutoff Angle (2.5%): 130.3°

Color

Color Temperature: 6484 K

CRI: 89.1

TLCI: 86

TM30 R_F: 88.9

TM30 R_g: 106.9

Power Details

Efficacy: 47 Lumen/Watt

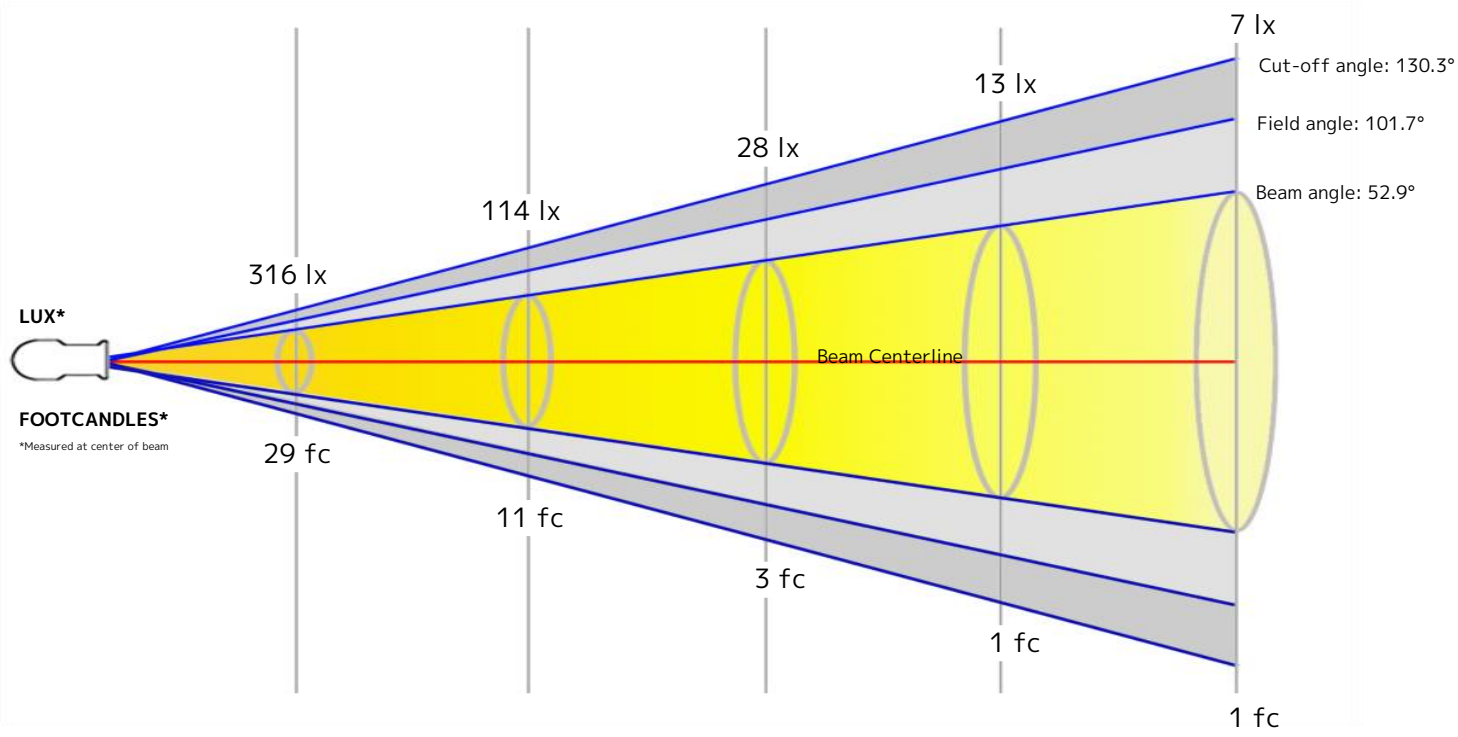
Power: 59.4 W

Supply Voltage: 121 V

Current: 0.501 A

Beam Details

Distance	3 m 3	5 m	10 m	15 m	20 m
Beam Width	m	5 m	9.9 m	14.9 m	19.9 m



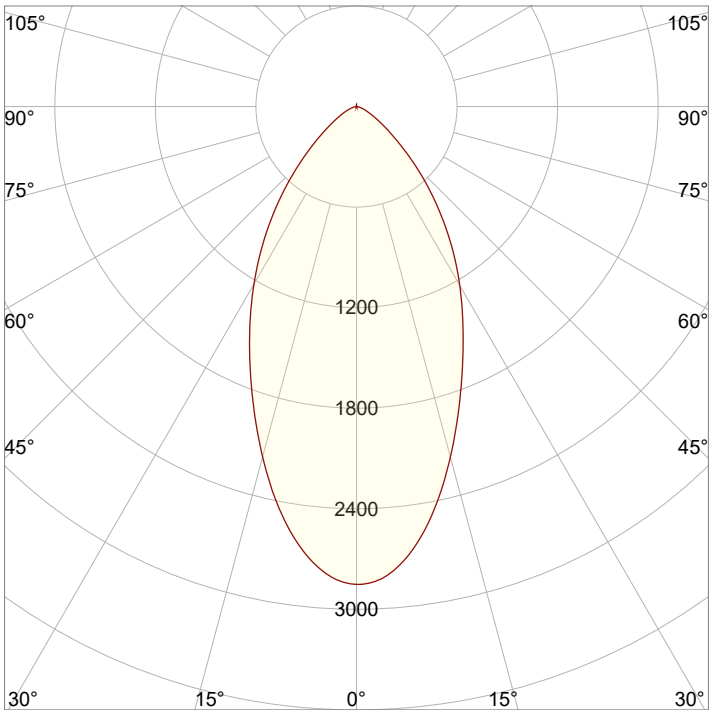
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	9.7 ft	16.3 ft	32.6 ft	48.9 ft	65.2 ft

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	2848	712	316	178	114	79	58	44	35	28	24	20	17	15	13	11	10	9	8	7
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	264.5	66.1	29.4	16.5	10.6	7.3	5.4	4.1	3.3	2.6	2.2	1.8	1.6	1.3	1.2	1	0.9	0.8	0.7	0.7

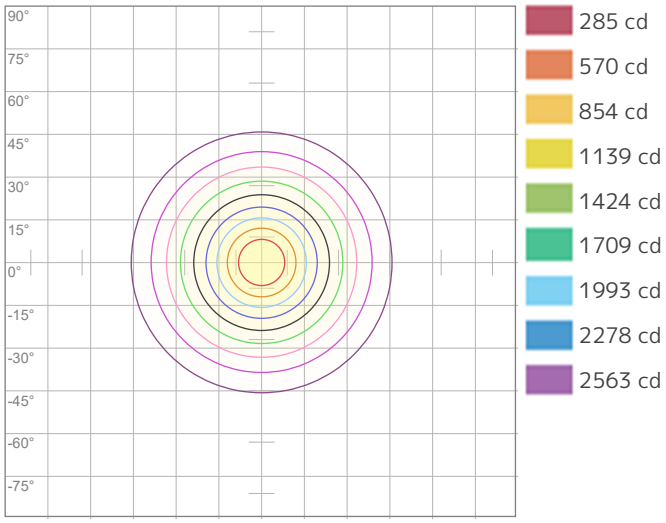
Measurement Date: 6/18/2024

Angular Distribution



Beam Angle - 50%
52.9°
Field Angle - 10%
101.7°
Cutoff Angle - 2.5%
130.3°

ISO Diagrams

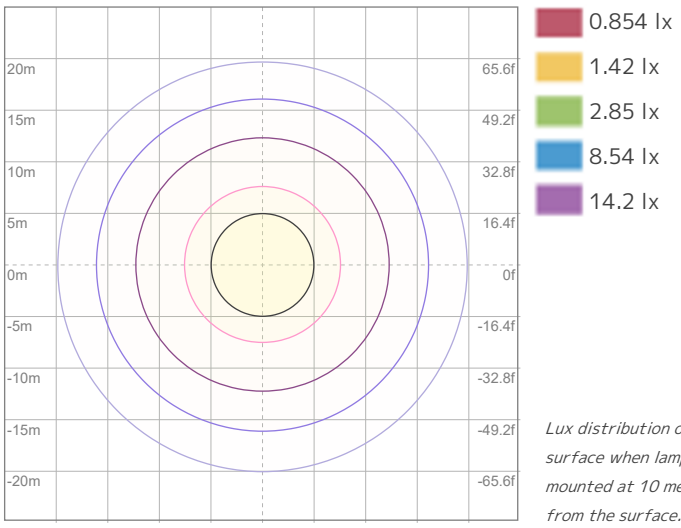


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2848 cd



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

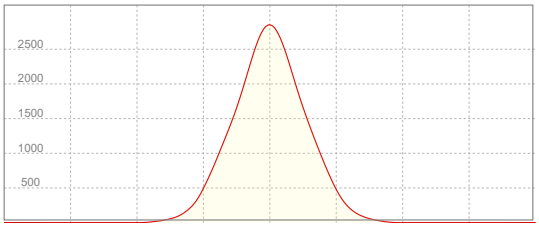
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 28.5 lx

Linear Distribution



Peak Candela

2851 cd

Calculate Center Beam Intensities

$lux = 2851 / distance(m)^2$

$fc = 2851 / distance(ft)^2$

Measurement Date: 6/18/2024

Key Measurements

Output

Total Lumen Output: 2995 lm

Peak Intensity: 3042 cd

Beam

Beam Angle (50%): 52.9°

Field Angle (10%): 101.8°

Cutoff Angle (2.5%): 129.8°

Color

Color Temperature: 8505 K

CRI: 88.4

TLCI: 88

TM30 R_F: 87.6

TM30 R_g: 105.2

Power Details

Efficacy: 46 Lumen/Watt

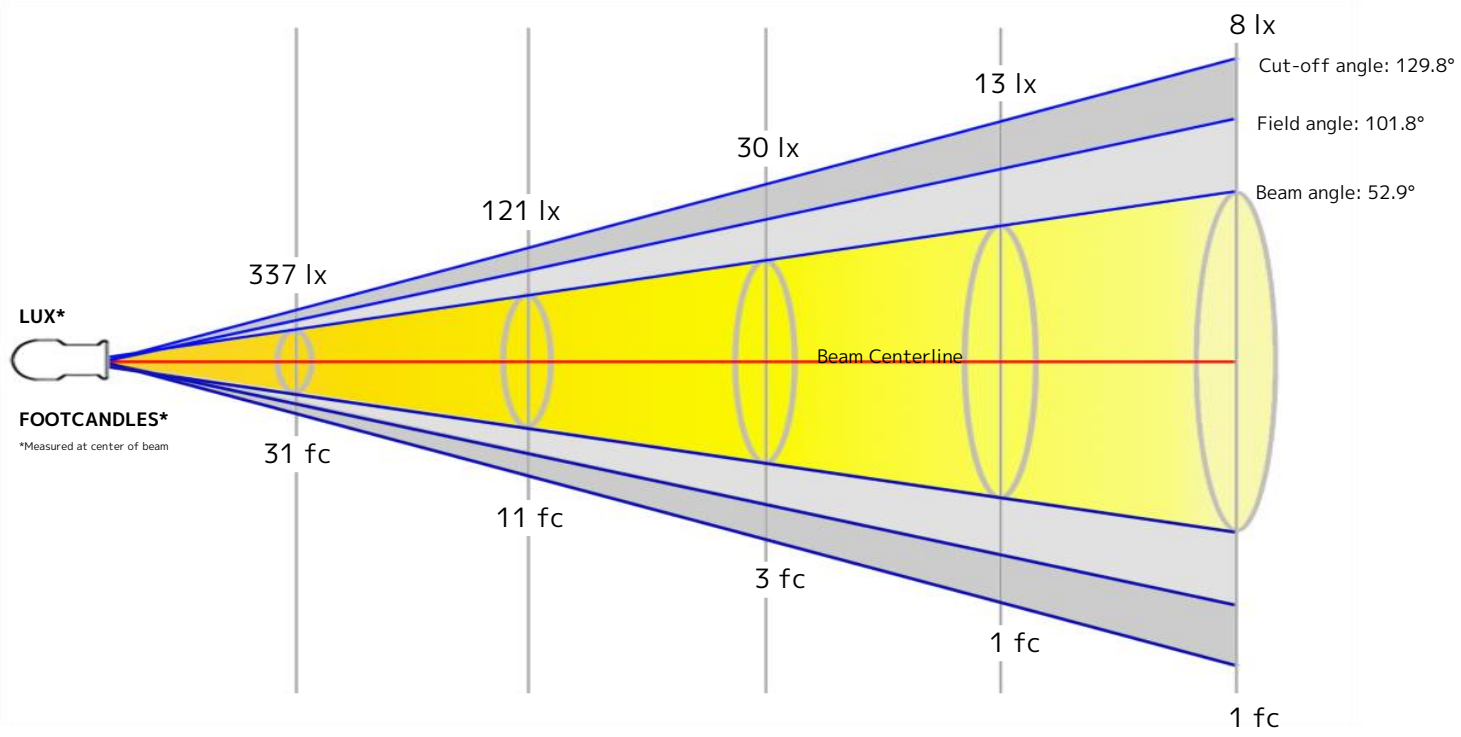
Power: 64.6 W

Supply Voltage: 121 V

Current: 0.546 A

Beam Details

Distance	3 m 3	5 m	10 m	15 m	20 m
Beam Width	m	5 m	10 m	14.9 m	19.9 m



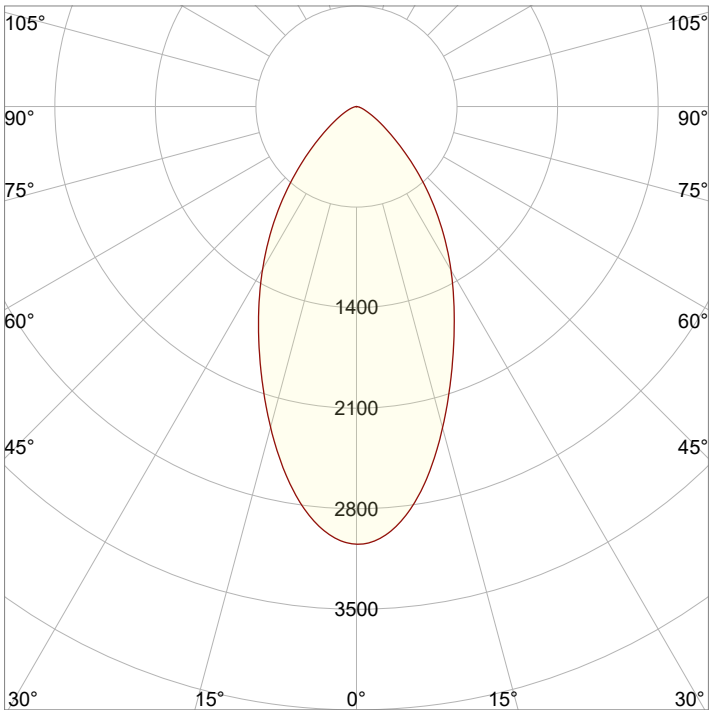
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	9.8 ft	16.3 ft	32.7 ft	49 ft	65.3 ft

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	3037	759	337	190	121	84	62	47	37	30	25	21	18	15	13	12	11	9	8	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	282.2	70.5	31.4	17.6	11.3	7.8	5.8	4.4	3.5	2.8	2.3	2	1.7	1.4	1.3	1.1	1	0.9	0.8	0.7

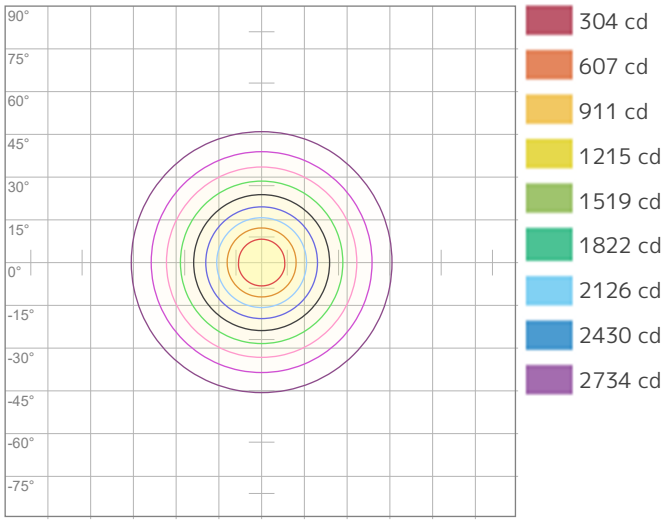
Measurement Date: 6/18/2024

Angular Distribution



Beam Angle - 50%
52.9°
Field Angle - 10%
101.8°
Cutoff Angle - 2.5%
129.8°

ISO Diagrams

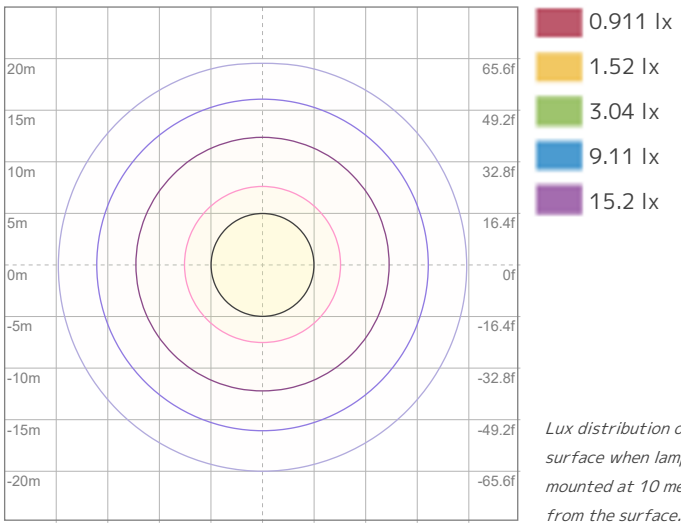


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 3037 cd



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

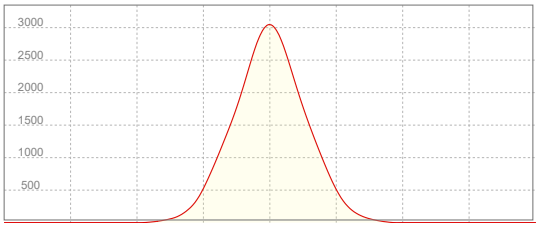
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 30.4 lx

Linear Distribution



Peak Candela

3042 cd

Calculate Center Beam Intensities

lux = 3042 / distance(m)^2

fc = 3042 / distance(ft)^2

Measurement Date: 6/18/2024

Six+ Par S (100°, Full Output- No UV)

Key Measurements

Output

Total Lumen Output: 2472 lm

Peak Intensity: 1591 cd

Beam

Beam Angle (50%): 78.7°

Field Angle (10%): 110.3°

Cutoff Angle (2.5%): 143.3°

Color

Color Temperature: 7348 K

CRI: 68.1

TLCI: 79

TM30 R_F: 78.3

TM30 R_g: 119.7

Power Details

Efficacy: 41 Lumen/Watt

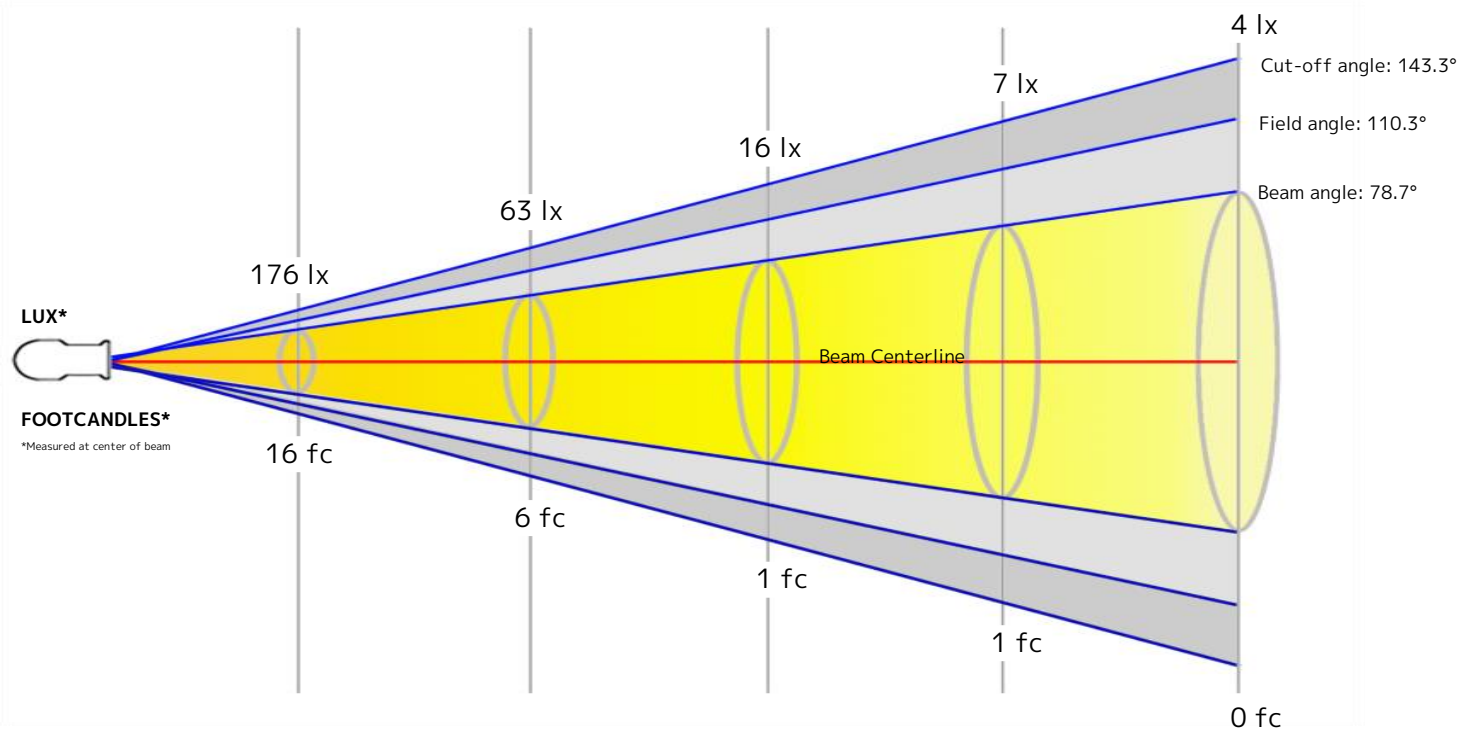
Power: 59.7 W

Supply Voltage: 120 V

Current: 0.511 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	4.9 m	8.2 m	16.4	24.6 m	32.8 m



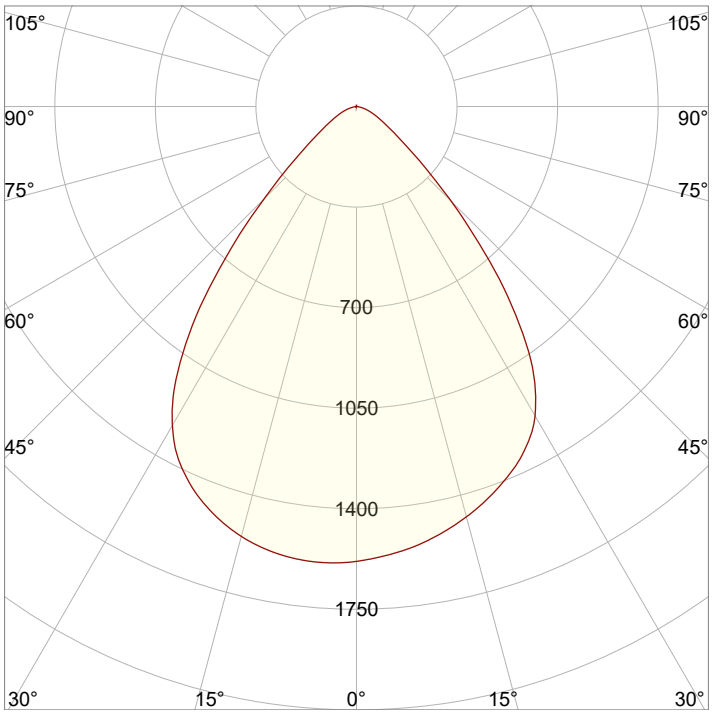
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	16.1 ft	26.9 ft	53.8 ft	80.7 ft	107.6 ft

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	1582	395	176	99	63	44	32	25	20	16	13	11	9	8	7	6	5	5	4	4
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	147	36.7	16.3	9.2	5.9	4.1	3	2.3	1.8	1.5	1.2	1	0.9	0.7	0.7	0.6	0.5	0.5	0.4	0.4

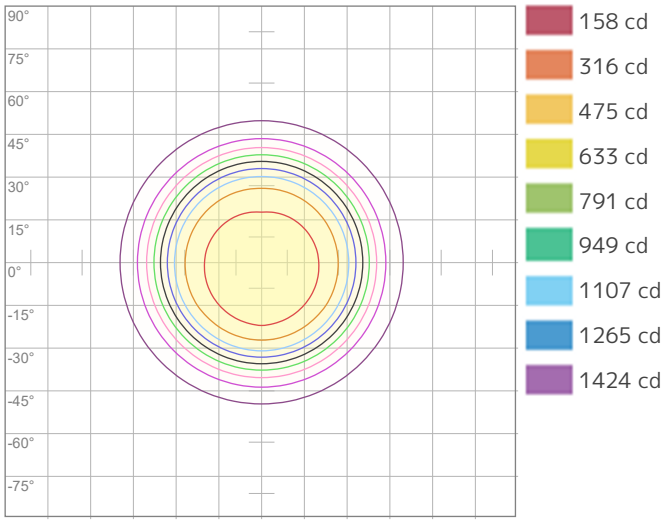
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
78.7°
Field Angle - 10%
110.3°
Cutoff Angle - 2.5%
143.3°

ISO Diagrams

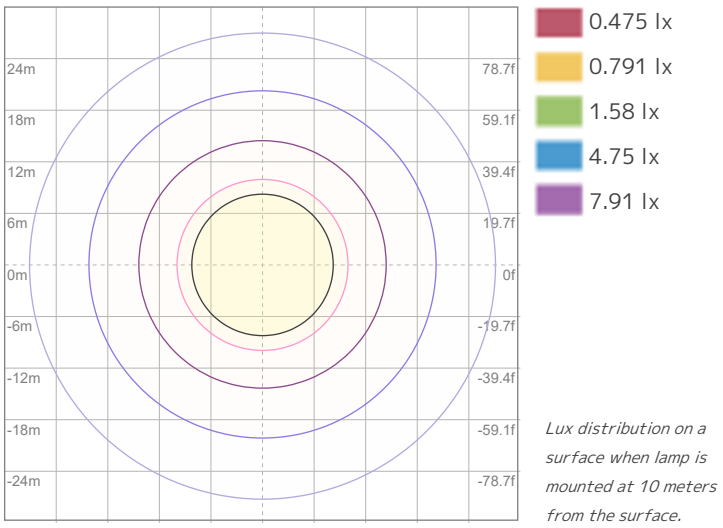


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1582 cd



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

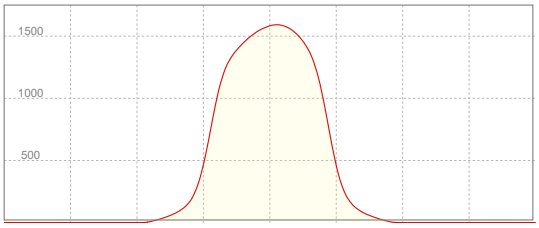
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 15.8 lx

Linear Distribution



Peak Candela

1591 cd

Calculate Center Beam Intensities

lux = 1591 / distance(m)^2

fc = 1591 / distance(ft)^2

Measurement Date: 6/19/2024

Six+ Par S (100°, Full Output)

Key Measurements

Output

Total Lumen Output: 2283 lm

Peak Intensity: 1470 cd

Beam

Beam Angle (50%): 78.8°

Field Angle (10%): 110.4°

Cutoff Angle (2.5%): 143.7°

Color

Color Temperature: 7867 K

CRI: 66.3

TLCI: 77

TM30 R_F: 76.6

TM30 R_g: 120.2

Power Details

Efficacy: 36 Lumen/Watt

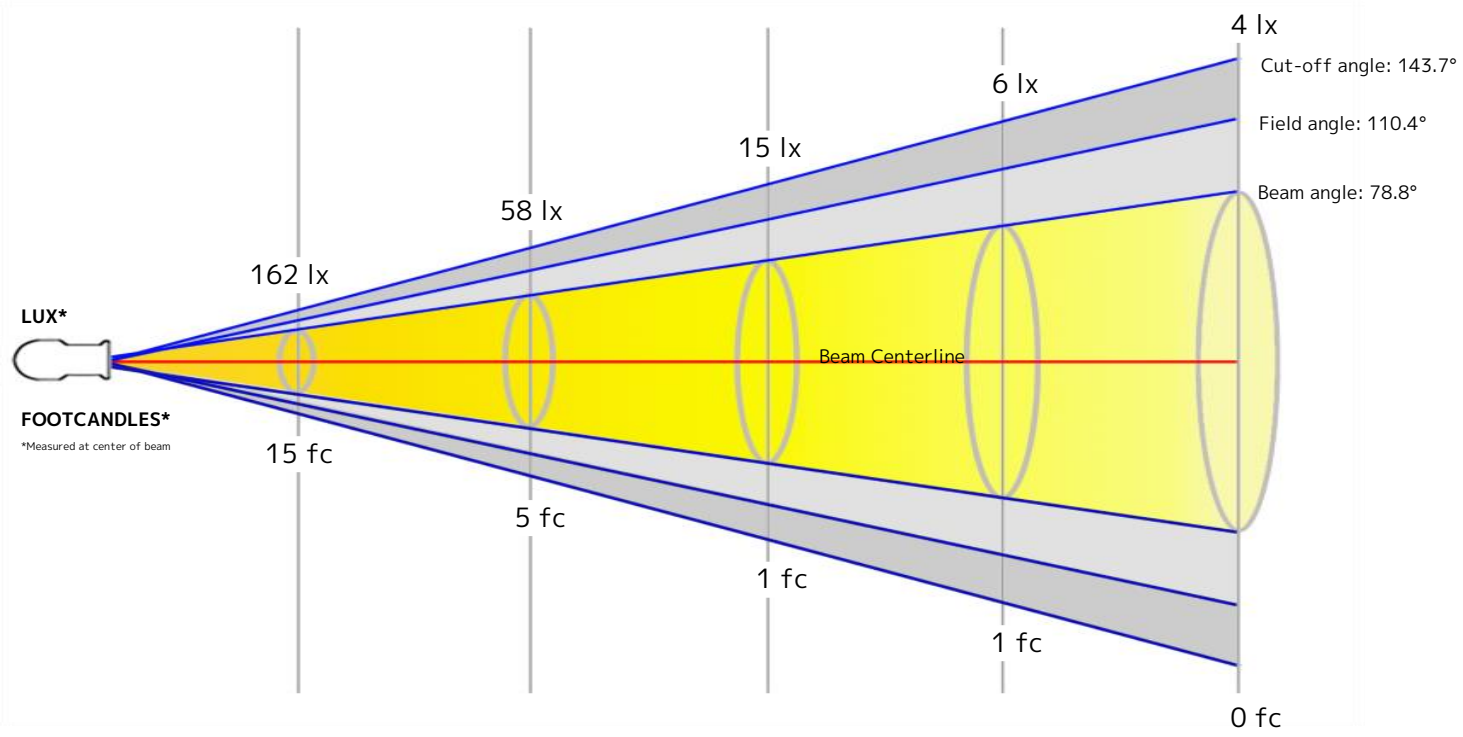
Power: 63.1 W

Supply Voltage: 120 V

Current: 0.537 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	4.9 m	8.2 m	16.4	24.6 m	32.9 m



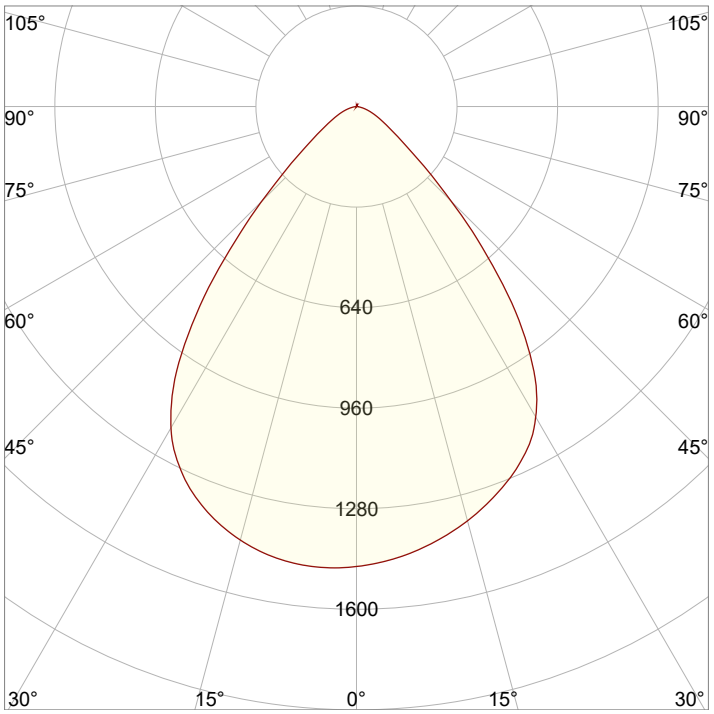
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	16.1 ft	26.9 ft	53.9 ft	80.8 ft	107.8 ft

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	1462	366	162	91	58	41	30	23	18	15	12	10	9	7	6	6	5	5	4	4
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	135.9	34	15.1	8.5	5.4	3.8	2.8	2.1	1.7	1.4	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3

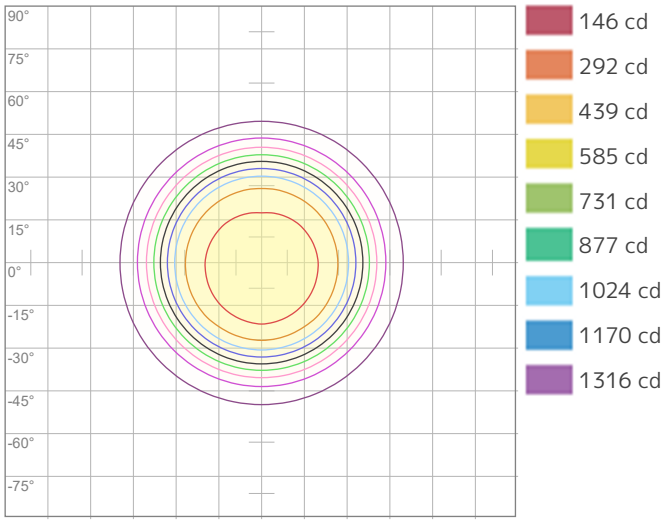
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
78.8°
Field Angle - 10%
110.4°
Cutoff Angle - 2.5%
143.7°

ISO Diagrams

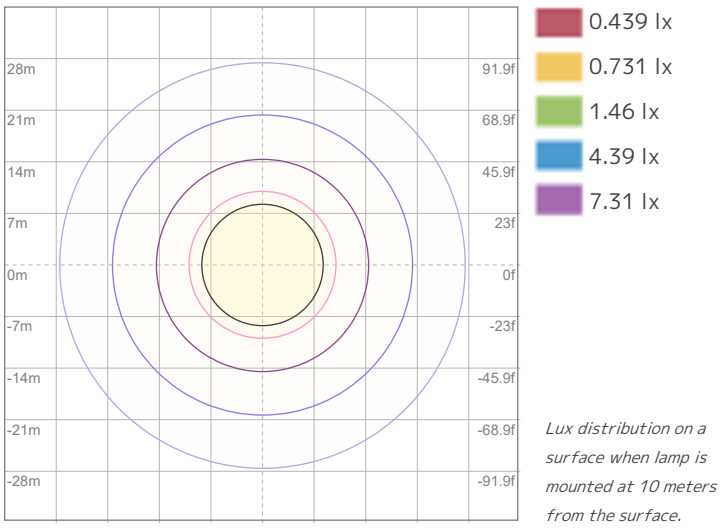


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1462 cd



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

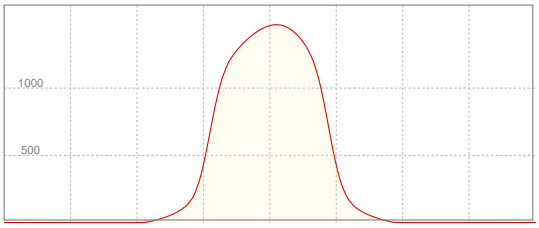
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 14.6 lx

Linear Distribution



Peak Candela

1470 cd

Calculate Center Beam Intensities

lux = 1470 / distance(m)^2

fc = 1470 / distance(ft)^2

Key Measurements

Output

Total Lumen Output: 2554 lm

Peak Intensity: 1649 cd

Beam

Beam Angle (50%): 78.8°

Field Angle (10%): 110.1°

Cutoff Angle (2.5%): 142.7°

Color

Color Temperature: 2480 K

CRI: 84.5

TLCI: 74

TM30 R_F: 88.4

TM30 R_g: 104.8

Power Details

Efficacy: 48 Lumen/Watt

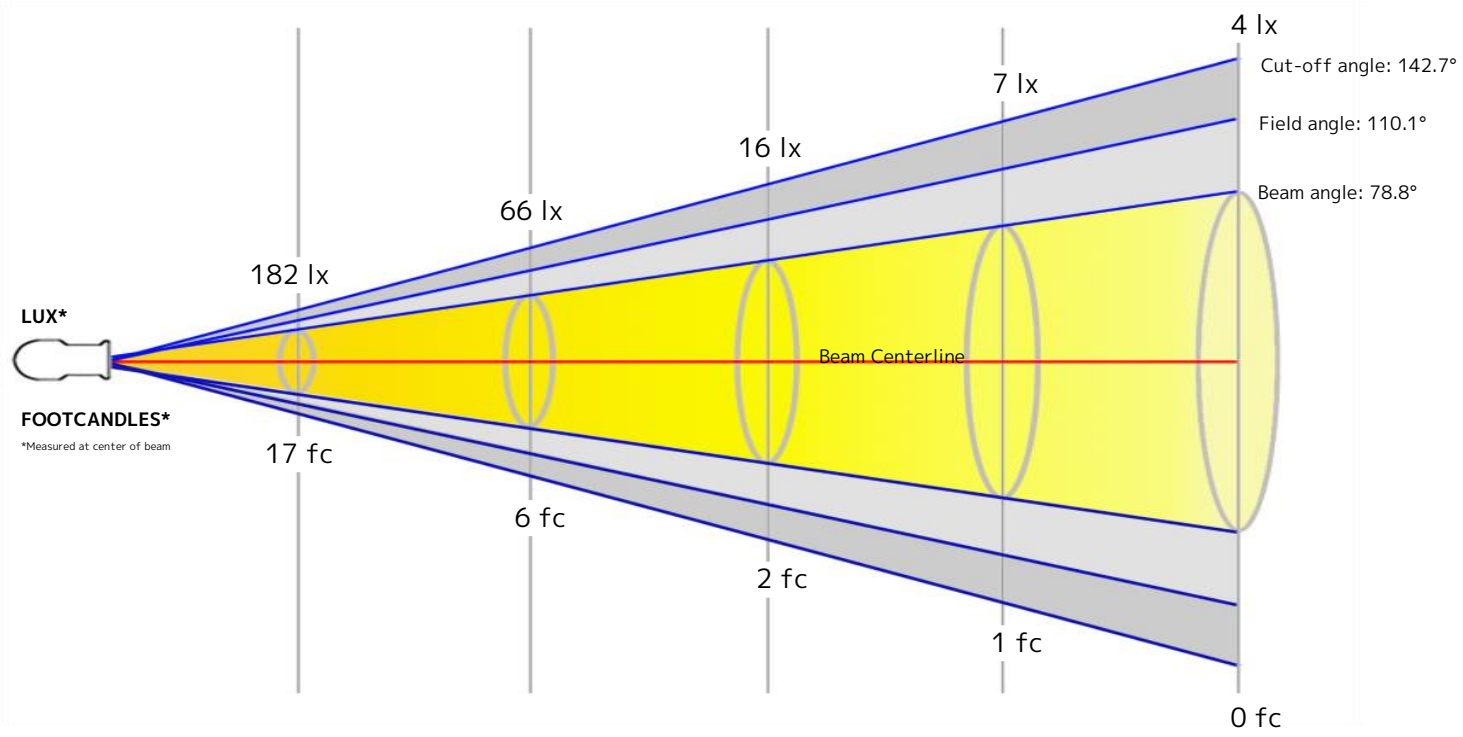
Power: 52.8 W

Supply Voltage: 119 V

Current: 0.456 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	4.9 m	8.2 m	16.4	24.6 m	32.8 m



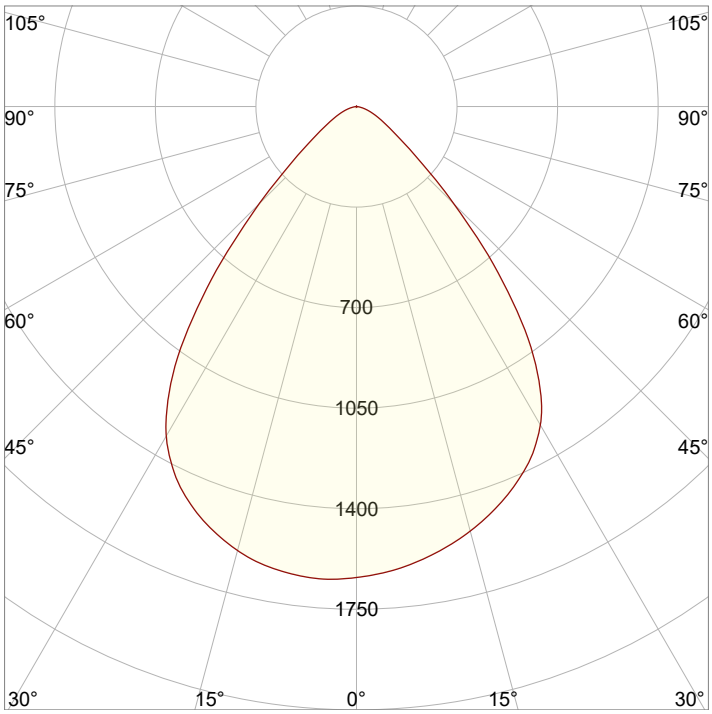
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	16.1 ft	26.9 ft	53.9 ft	80.8 ft	107.7 ft

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	1639	410	182	102	66	46	33	26	20	16	14	11	10	8	7	6	6	5	5	4
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	152.2	38.1	16.9	9.5	6.1	4.2	3.1	2.4	1.9	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4

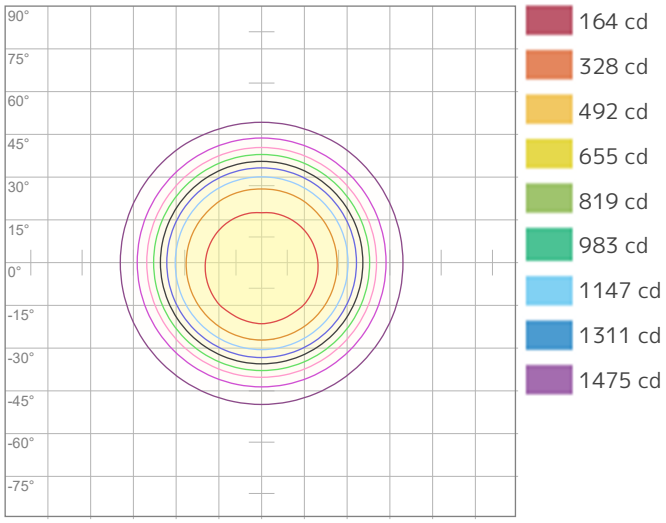
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
78.8°
Field Angle - 10%
110.1°
Cutoff Angle - 2.5%
142.7°

ISO Diagrams

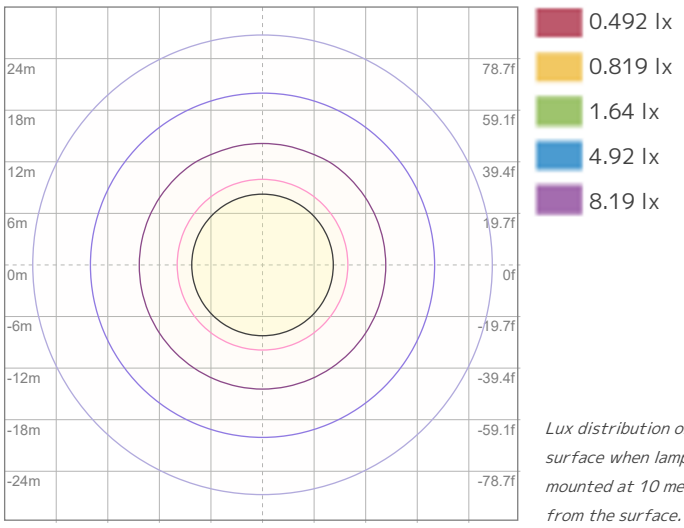


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1639 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: 16.4 lx

Linear Distribution

Peak Candela

1649 cd

Calculate Center Beam Intensities

lux = 1649 / distance(m)^2

fc = 1649 / distance(ft)^2

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 3160 lm

Peak Intensity: 2043 cd

Beam

Beam Angle (50%): 78.6°

Field Angle (10%): 110°

Cutoff Angle (2.5%): 143.5°

Color

Color Temperature: 3157 K

CRI: 89.1

TLCI: 82

TM30 R_F: 91.6

TM30 R_g: 106.8

Power Details

Efficacy: 48 Lumen/Watt

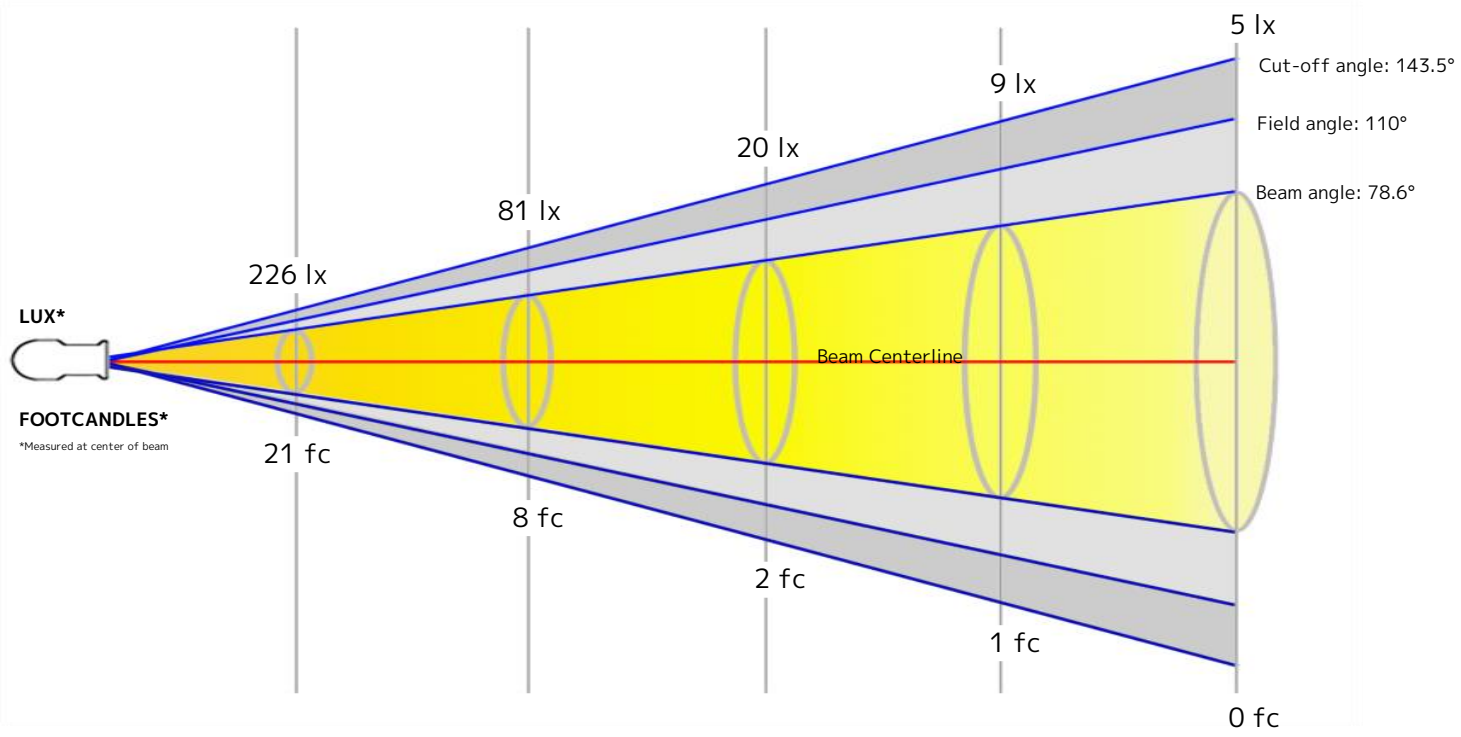
Power: 65.3 W

Supply Voltage: 119 V

Current: 0.555 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	4.9 m	8.2 m	16.4	24.5 m	32.7 m



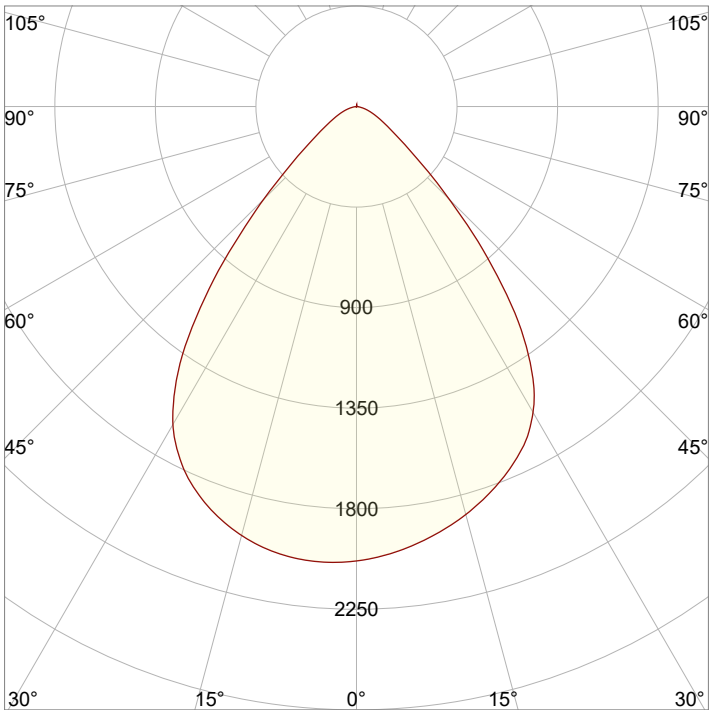
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	16 ft	26.8 ft	53.7 ft	80.5 ft	107.3 ft

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	2032	508	226	127	81	56	41	32	25	20	17	14	12	10	9	8	7	6	6	5
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	188.8	47.2	21	11.8	7.6	5.2	3.9	2.9	2.3	1.9	1.6	1.3	1.1	1	0.8	0.7	0.7	0.6	0.5	0.5

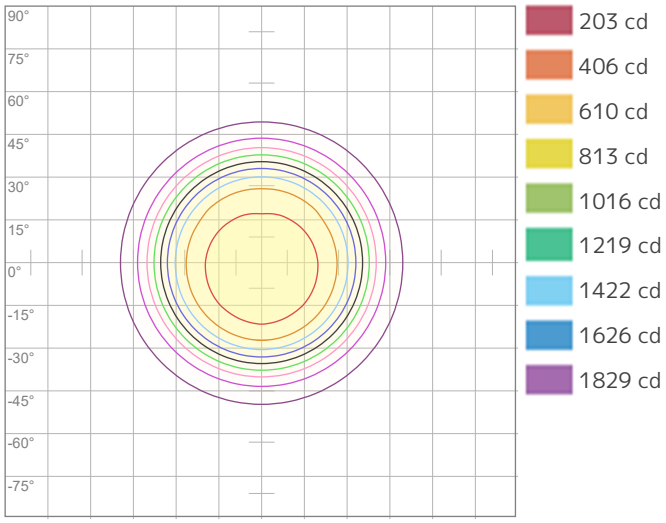
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
78.6°
Field Angle - 10%
110°
Cutoff Angle - 2.5%
143.5°

ISO Diagrams

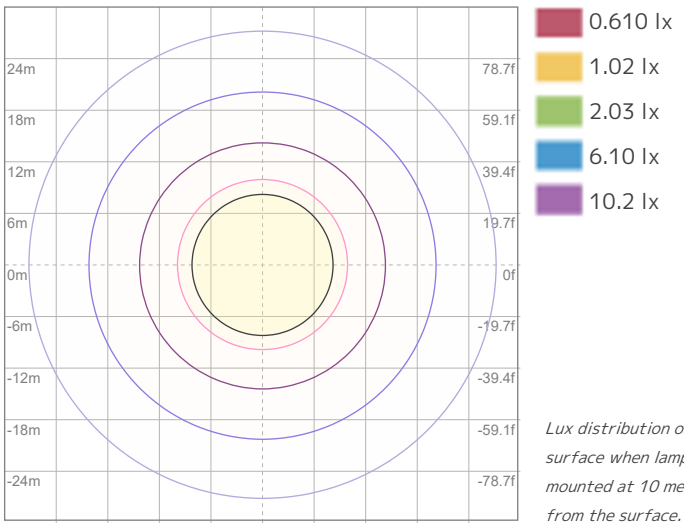


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2032 cd



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

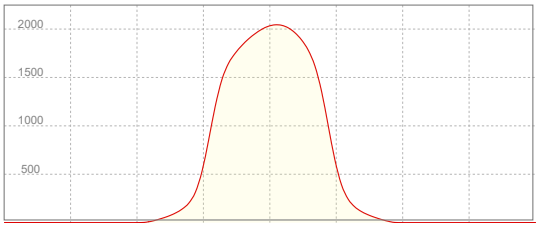
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 20.3 lx

Linear Distribution



Peak Candela
2043 cd

Calculate Center Beam Intensities

lux = 2043 / distance(m)^2

fc = 2043 / distance(ft)^2

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 2937 lm

Peak Intensity: 1891 cd

Beam

Beam Angle (50%): 78.6°

Field Angle (10%): 110.7°

Cutoff Angle (2.5%): 143.9°

Color

Color Temperature: 4472 K

CRI: 89.7

TLCI: 82

TM30 R_F: 90.8

TM30 R_g: 107.7

Power Details

Efficacy: 48 Lumen/Watt

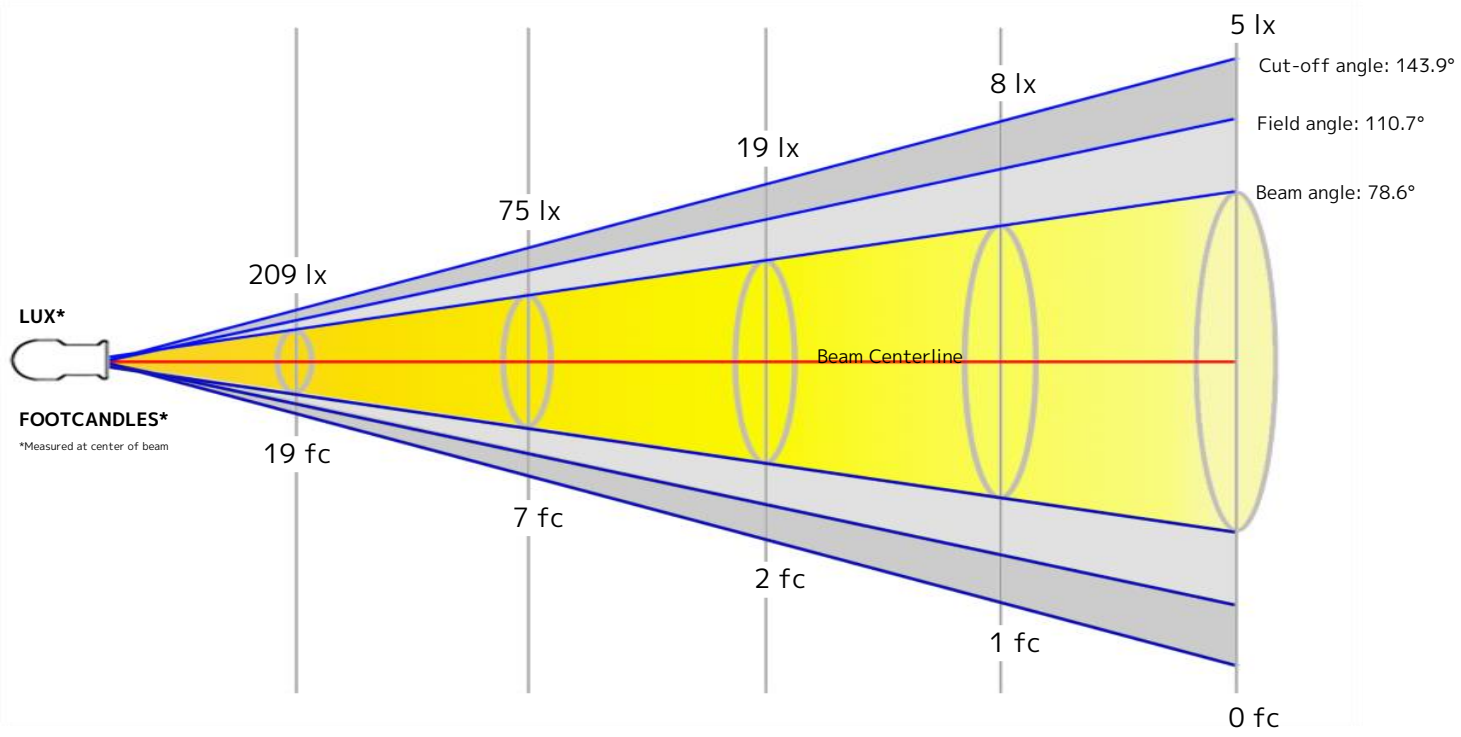
Power: 61.6 W

Supply Voltage: 120 V

Current: 0.523 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	4.9 m	8.2 m	16.4	24.6 m	32.7 m



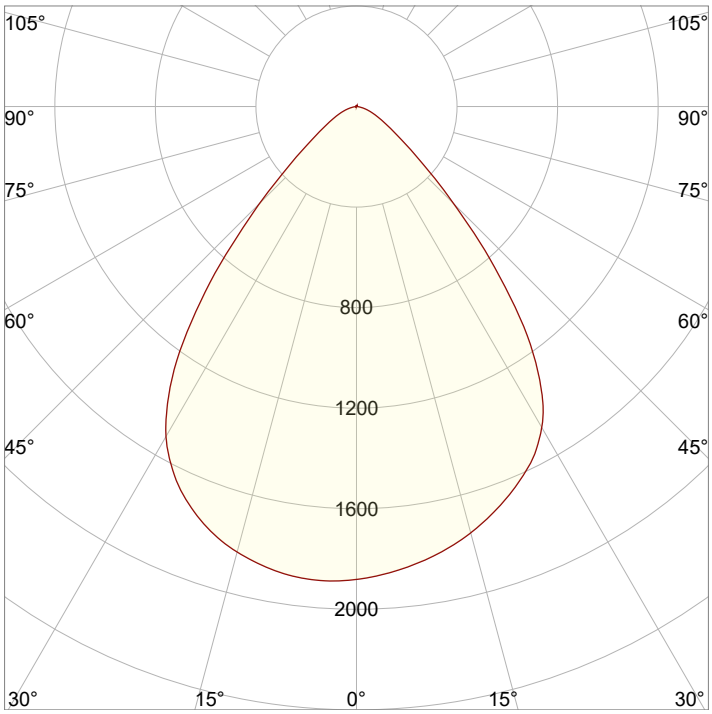
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	16 ft	26.8 ft	53.7 ft	80.5 ft	107.4 ft

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	1880	470	209	118	75	52	38	29	23	19	16	13	11	10	8	7	7	6	5	5
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	174.7	43.7	19.4	10.9	7	4.9	3.6	2.7	2.2	1.7	1.4	1.2	1	0.9	0.8	0.7	0.6	0.5	0.5	0.4

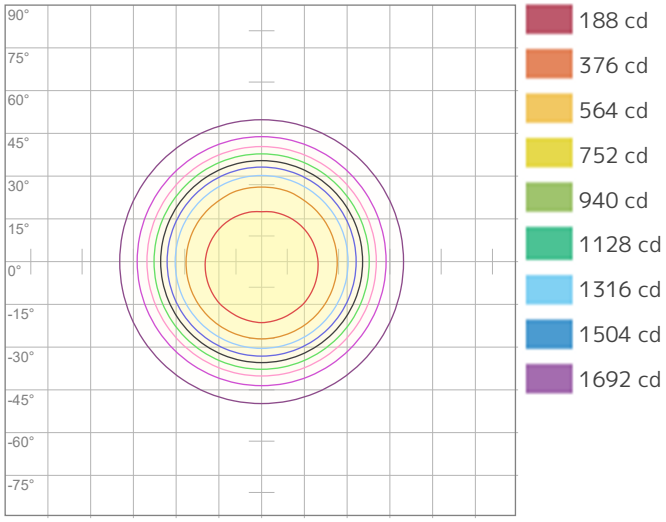
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
78.6°
Field Angle - 10%
110.7°
Cutoff Angle - 2.5%
143.9°

ISO Diagrams

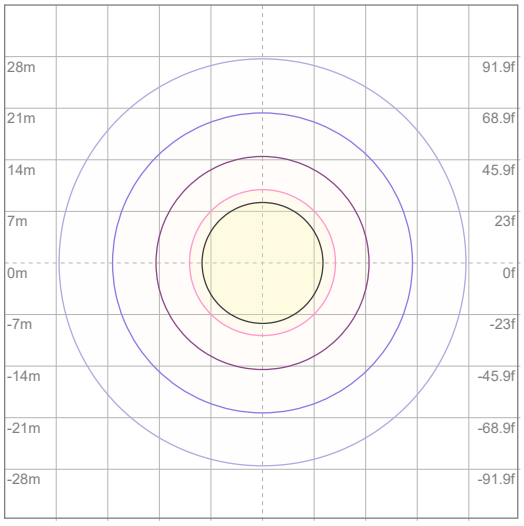


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1880 cd



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

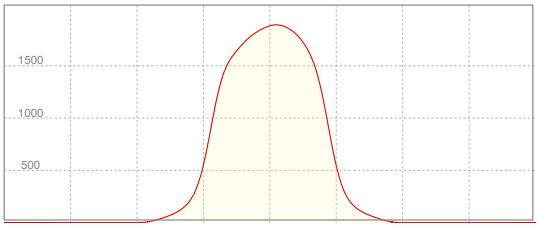
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 18.8 lx

Linear Distribution



Peak Candela

1891 cd

Calculate Center Beam Intensities

lux = 1891 / distance(m)^2

fc = 1891 / distance(ft)^2

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 2789 lm

Peak Intensity: 1789 cd

Beam

Beam Angle (50%): 78.8°

Field Angle (10%): 110.5°

Cutoff Angle (2.5%): 144.3°

Color

Color Temperature: 6518 K

CRI: 89.1

TLCI: 86

TM30 R_F: 88.9

TM30 R_g: 106.7

Power Details

Efficacy: 46 Lumen/Watt

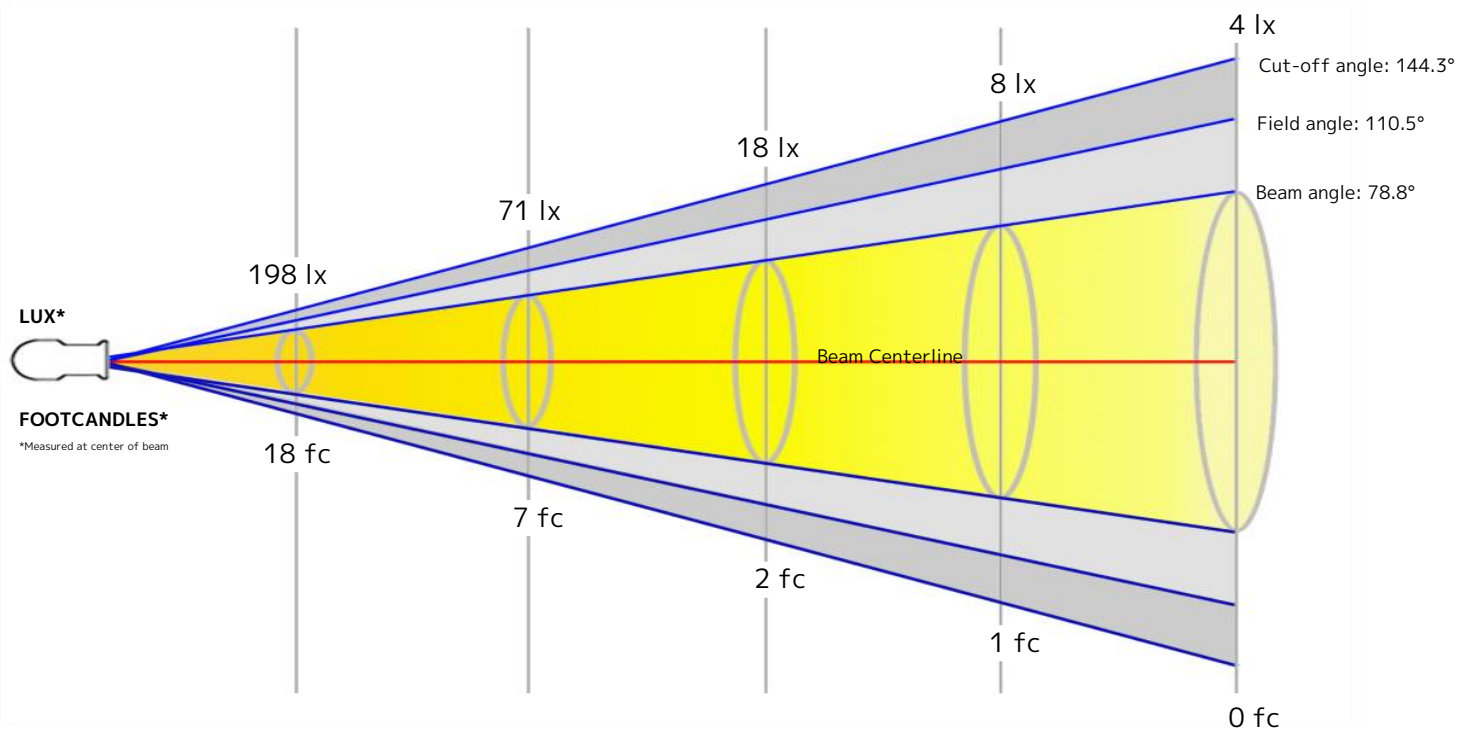
Power: 60.2 W

Supply Voltage: 120 V

Current: 0.515 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	4.9 m	8.2 m	16.4	24.7 m	32.9 m



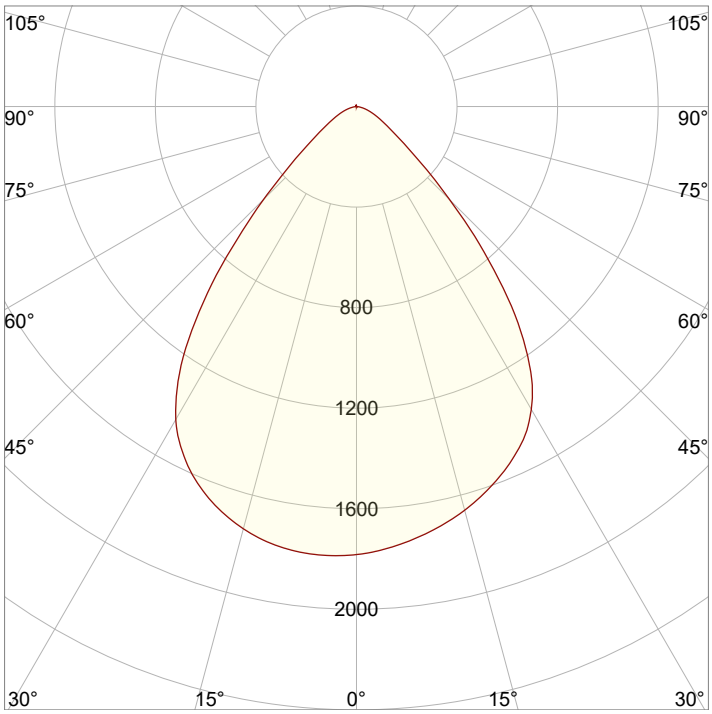
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	16.1 ft	27 ft	53.9 ft	80.9 ft	107.8 ft

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	1781	445	198	111	71	49	36	28	22	18	15	12	11	9	8	7	6	5	5	4
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	165.4	41.4	18.4	10.3	6.6	4.6	3.4	2.6	2	1.7	1.4	1.1	1	0.8	0.7	0.6	0.6	0.5	0.5	0.4

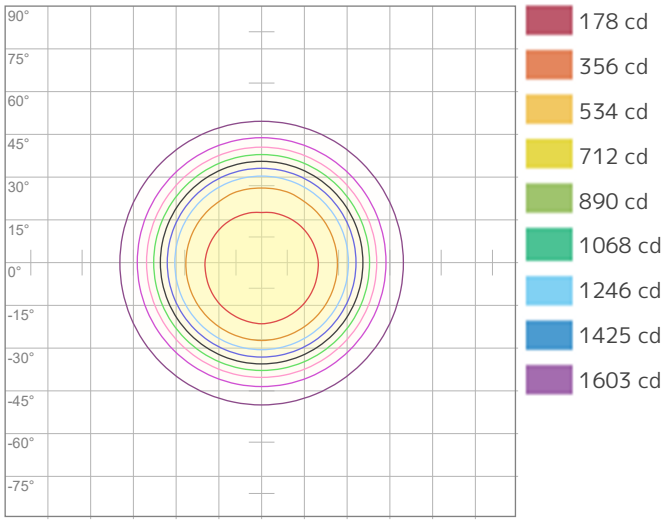
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
78.8°
Field Angle - 10%
110.5°
Cutoff Angle - 2.5%
144.3°

ISO Diagrams

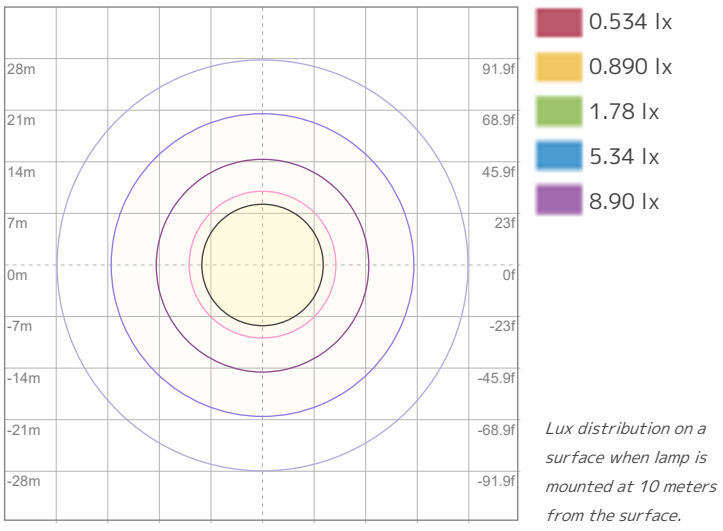


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1781 cd



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

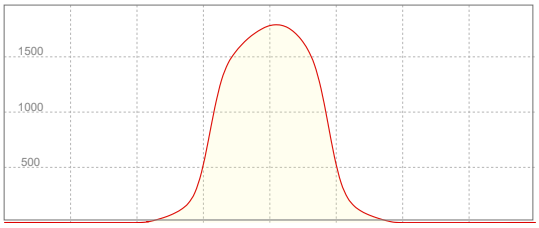
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 17.8 lx

Linear Distribution



Peak Candela

1789 cd

Calculate Center Beam Intensities

lux = 1789 / distance(m)^2

fc = 1789 / distance(ft)^2

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 2755 lm

Peak Intensity: 1766 cd

Beam

Beam Angle (50%): 78.9°

Field Angle (10%): 110.6°

Cutoff Angle (2.5%): 144.3°

Color

Color Temperature: 8471 K

CRI: 88.4

TLCI: 88

TM30 R_F: 87.7

TM30 R_g: 105.2

Power Details

Efficacy: 46 Lumen/Watt

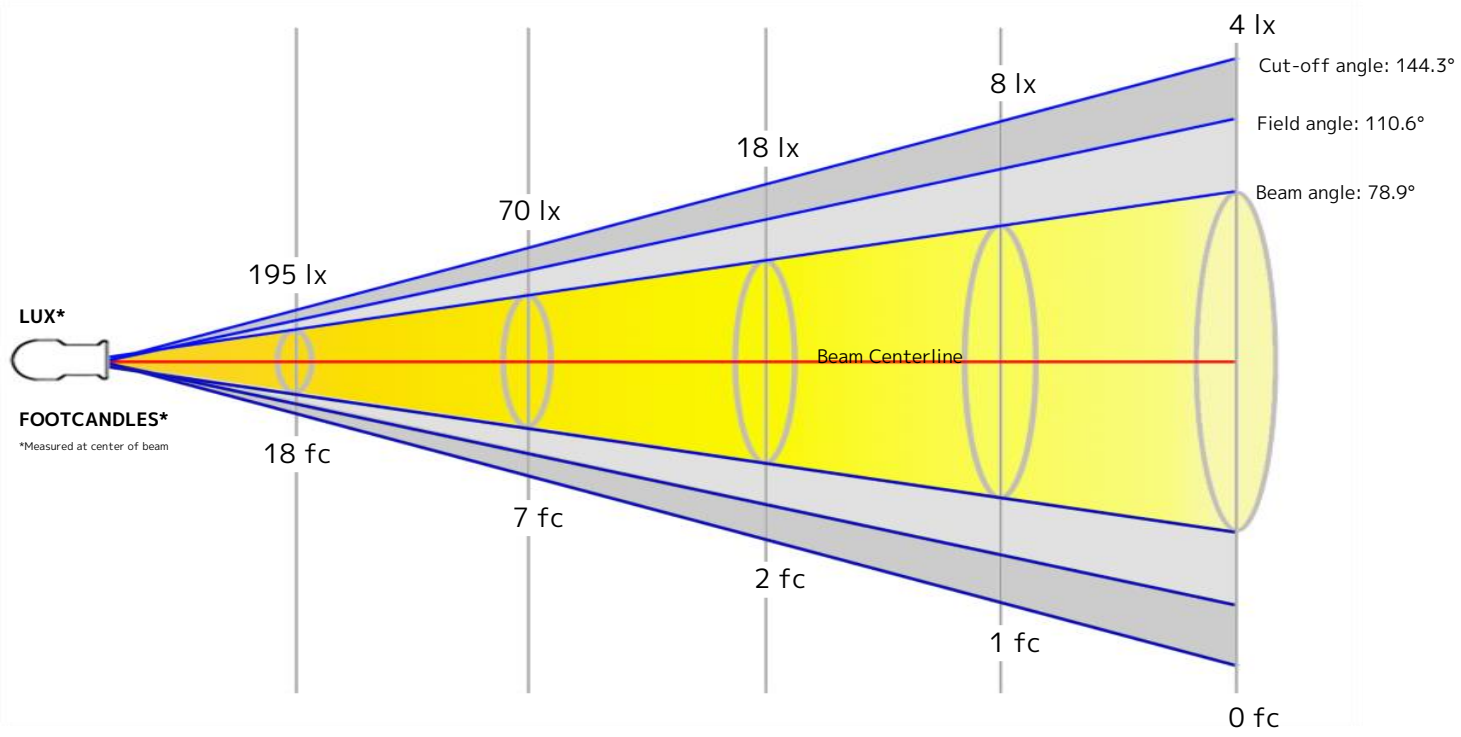
Power: 60.5 W

Supply Voltage: 119 V

Current: 0.519 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	4.9 m	8.2 m	16.5	24.7 m	32.9 m



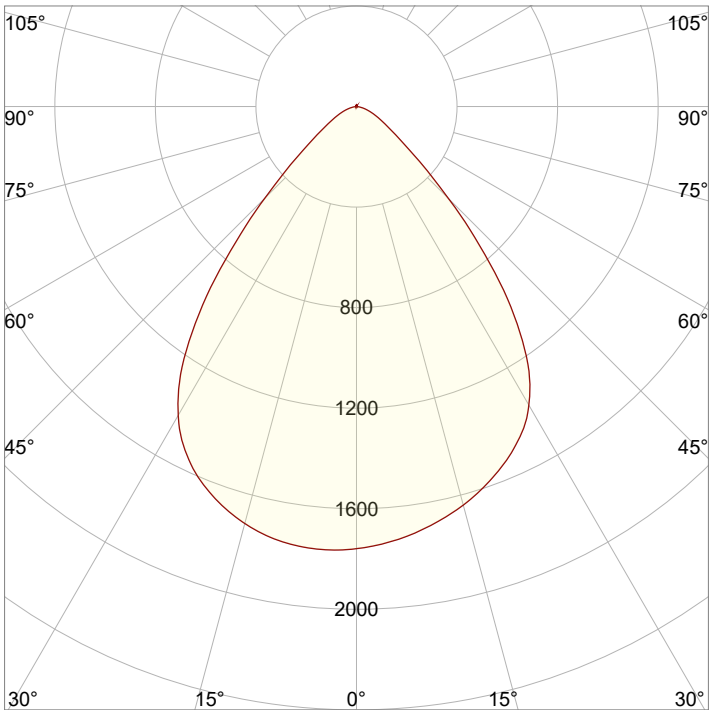
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	16.1 ft	27 ft	54 ft	81 ft	108 ft

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	1757	439	195	110	70	49	36	27	22	18	15	12	10	9	8	7	6	5	5	4
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	163.2	40.8	18.1	10.2	6.5	4.5	3.3	2.6	2	1.6	1.3	1.1	1	0.8	0.7	0.6	0.6	0.5	0.5	0.4

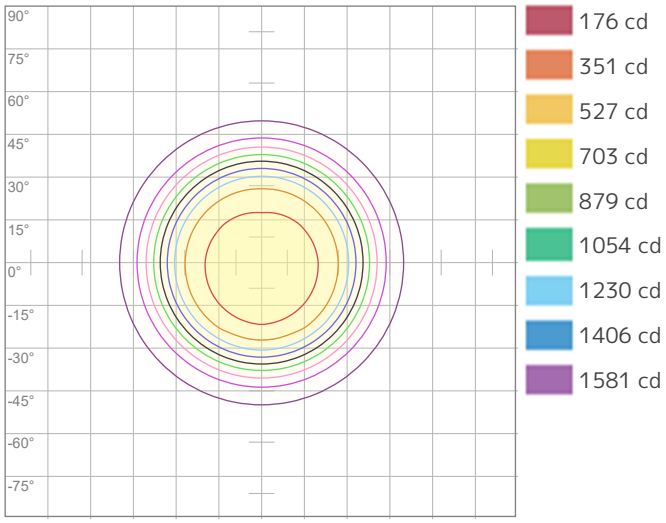
Measurement Date: 6/19/2024

Angular Distribution



Beam Angle - 50%
78.9°
Field Angle - 10%
110.6°
Cutoff Angle - 2.5%
144.3°

ISO Diagrams

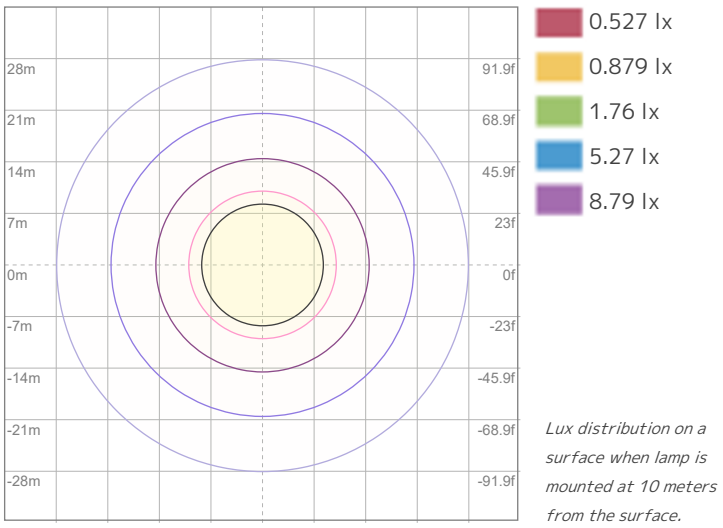


ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1757 cd



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

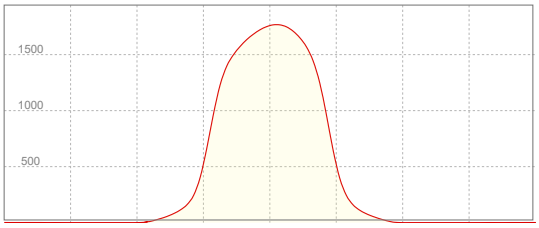
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 17.6 lx

Linear Distribution



Peak Candela

1766 cd

Calculate Center Beam Intensities

lux = 1766 / distance(m)^2

fc = 1766 / distance(ft)^2

Measurement Date: 6/19/2024

ELATION Six+ Par S (10°x 60°, Full Output- No UV)

VISO SYSTEMS Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 4176 lm

Peak Intensity: 11209 cd

Beam

Beam Angle (50%): 30.1°x 17.6°

Field Angle (10%): 53.9°x 35.1°

Cutoff Angle (2.5%): 75.8°x 55.6°

Color

Color Temperature: 6805 K

CRI: 66.1

TLCI: 75

TM30 R_F: 77.7

TM30 R_g: 121.4

Power Details

Efficacy: 48 Lumen/Watt

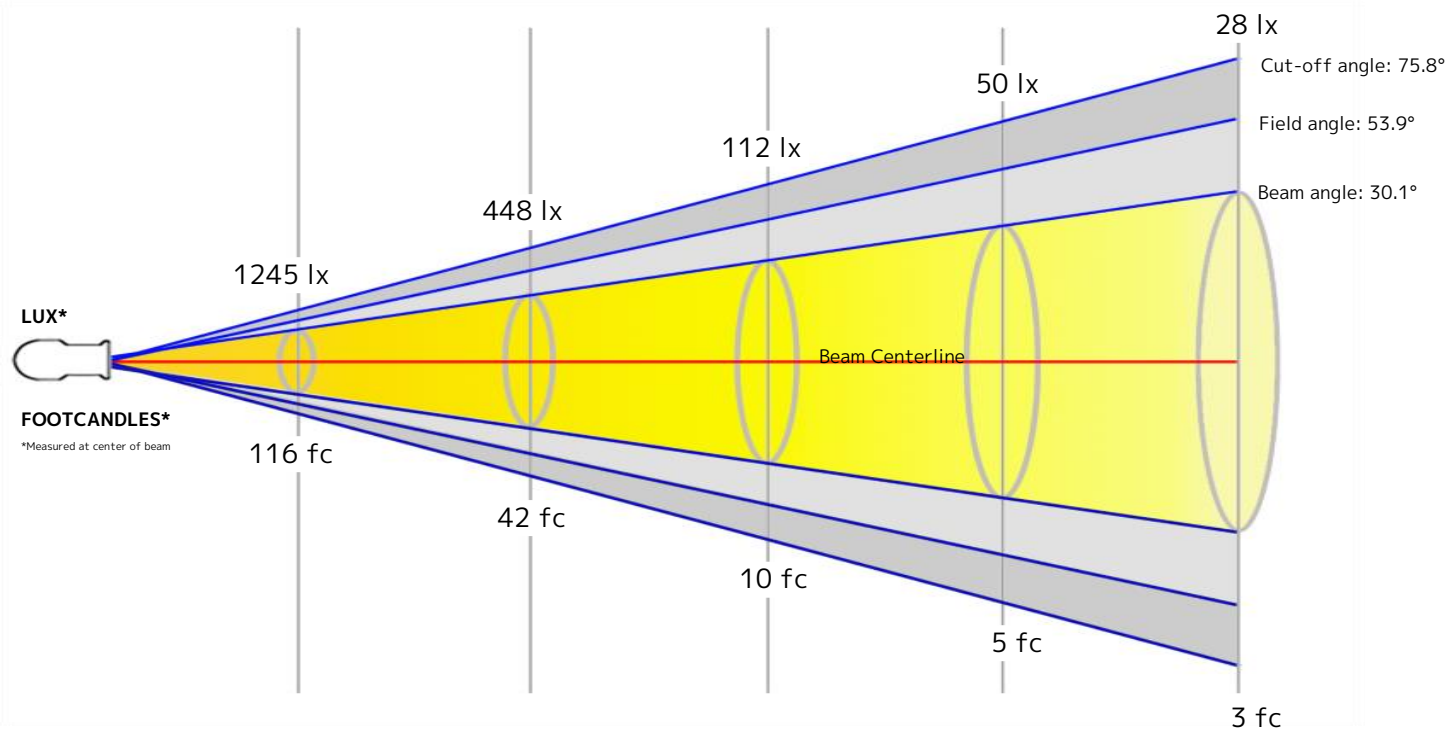
Power: 86.9 W

Supply Voltage: 120 V

Current: 0.732 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	10.8 m



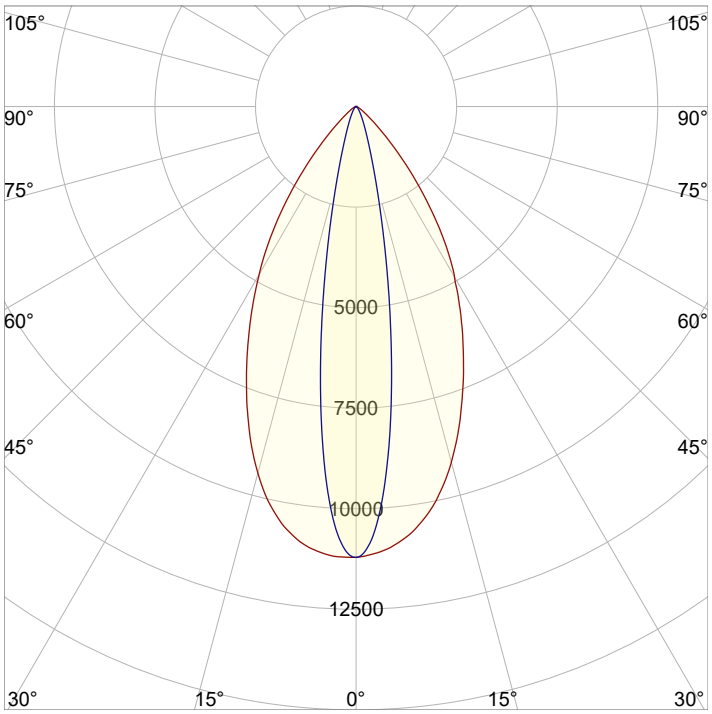
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.3 ft	8.8 ft	17.6 ft	26.5 ft	35.3 ft

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	11206	2801	1245	700	448	311	229	175	138	112	93	78	66	57	50	44	39	35	31	28
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	1041.1	260.3	115.7	65.1	41.6	28.9	21.2	16.3	12.9	10.4	8.6	7.2	6.2	5.3	4.6	4.1	3.6	3.2	2.9	2.6

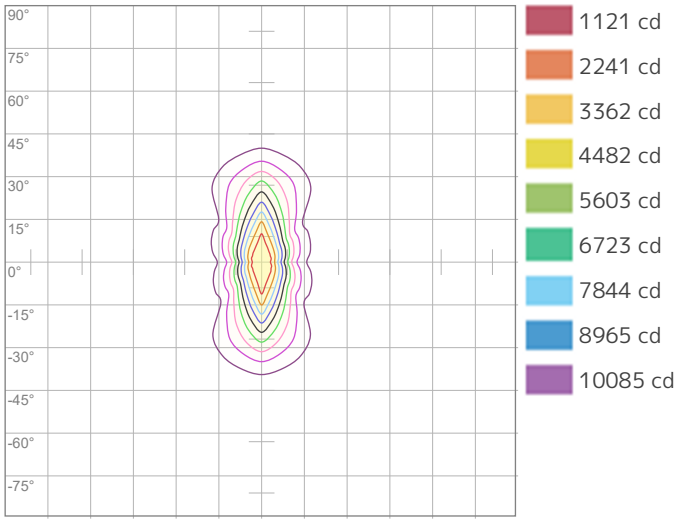
Measurement Date: 6/19/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30.1°	17.6°
Field Angle - 10%	Field Angle - 10%
53.9°	35.1°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
75.8°	55.6°

ISO Diagrams

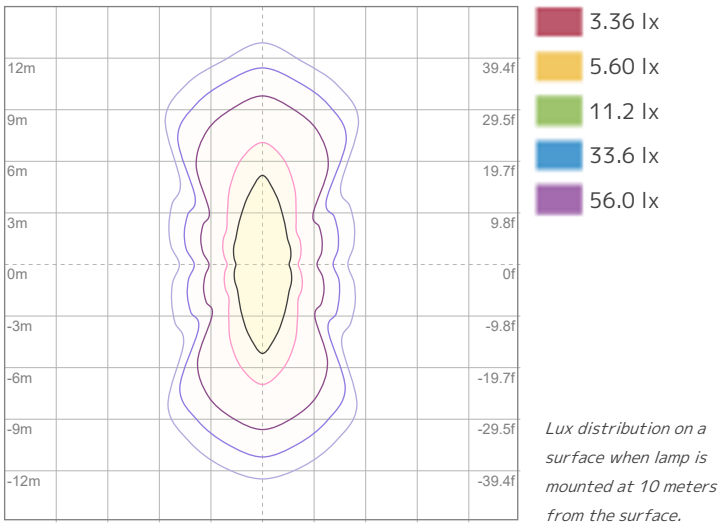


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 11206 cd



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

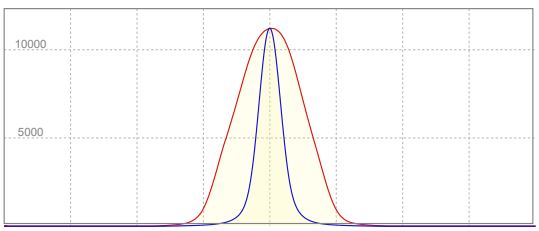
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 112 lx

Linear Distribution



Peak Candela

11209 cd

Calculate Center Beam Intensities

lux = 11209 / distance(m)^2

fc = 11209 / distance(ft)^2

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 3099 lm

Peak Intensity: 8610 cd

Beam

Beam Angle (50%): 29.8°x 17.1°

Field Angle (10%): 53.3°x 34.5°

Cutoff Angle (2.5%): 74°x 53.8°

Color

Color Temperature: 7460 K

CRI: 66.4

TLCI: 76

TM30 R_F: 76.8

TM30 R_g: 120.6

Power Details

Efficacy: 36 Lumen/Watt

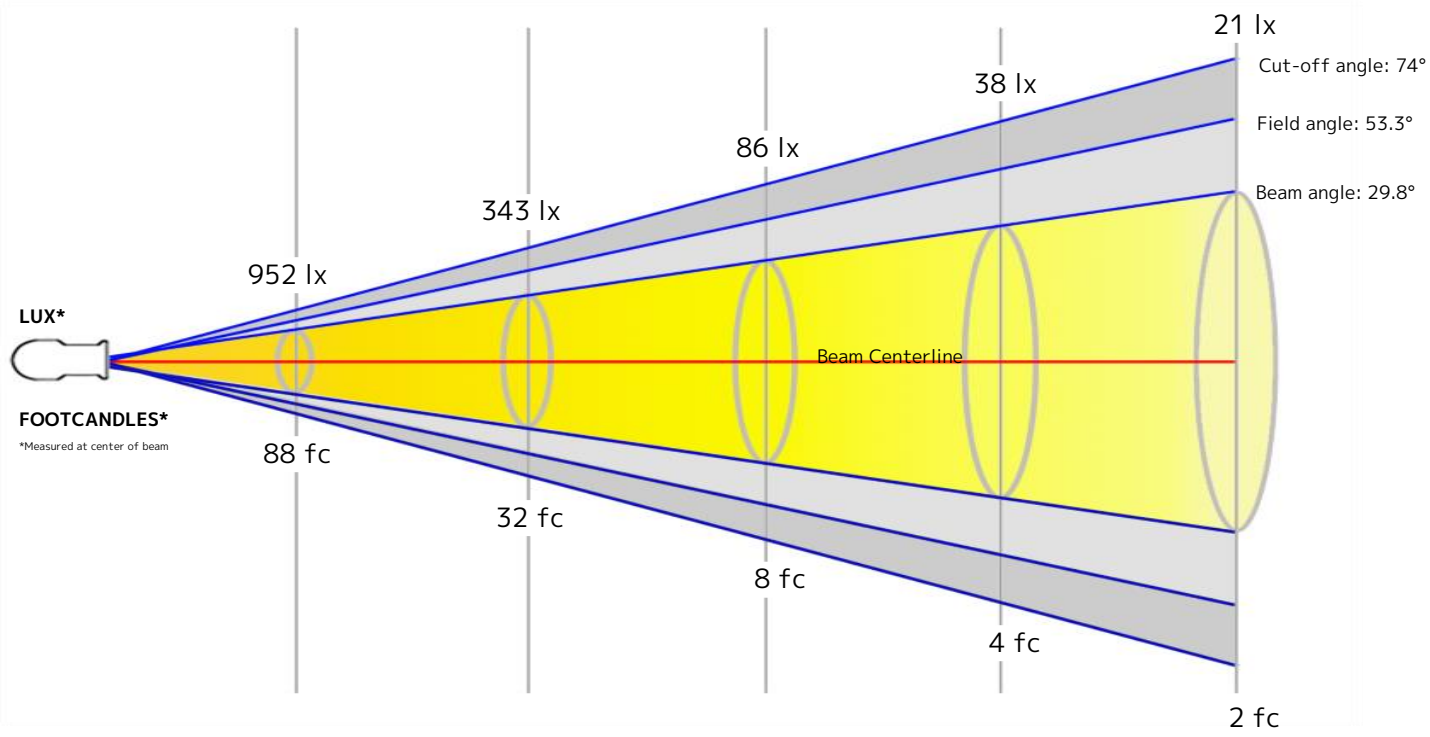
Power: 85.2 W

Supply Voltage: 120 V

Current: 0.718 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	10.6 m



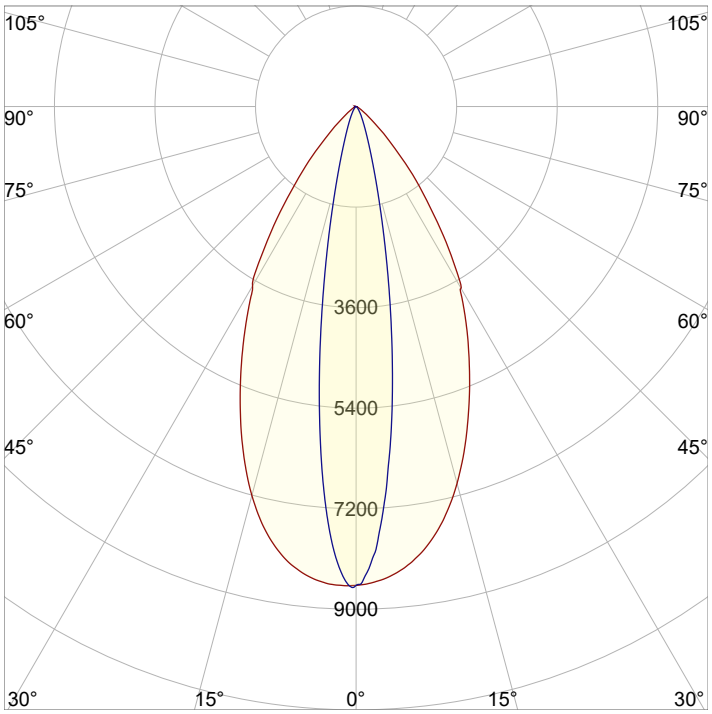
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.2 ft	8.7 ft	17.4 ft	26.1 ft	34.9 ft

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	8572	2143	952	536	343	238	175	134	106	86	71	60	51	44	38	33	30	26	24	21
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	796.3	199.1	88.5	49.8	31.9	22.1	16.3	12.4	9.8	8	6.6	5.5	4.7	4.1	3.5	3.1	2.8	2.5	2.2	2

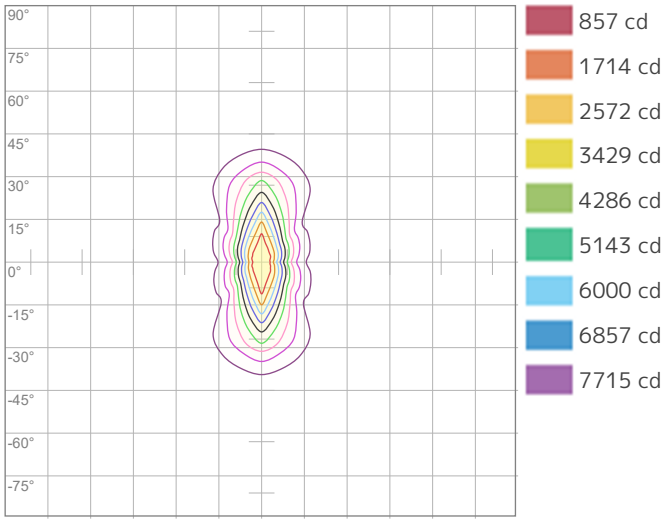
Measurement Date: 6/19/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
29.8°	17.1°
Field Angle - 10%	Field Angle - 10%
53.3°	34.5°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
74°	53.8°

ISO Diagrams

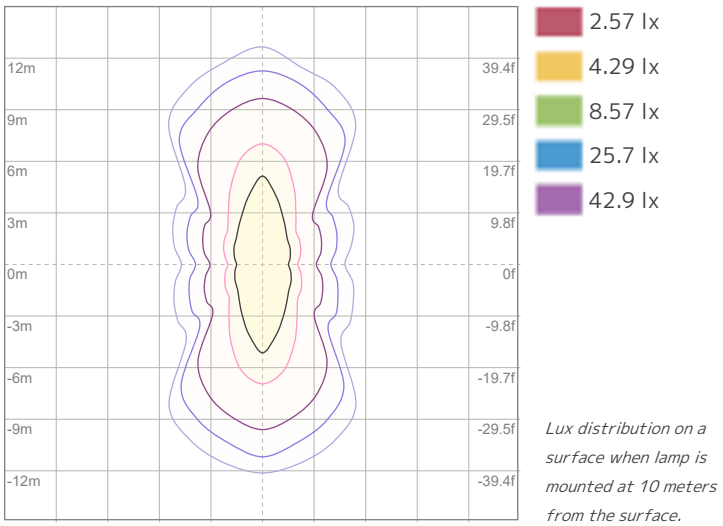


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 8572 cd



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

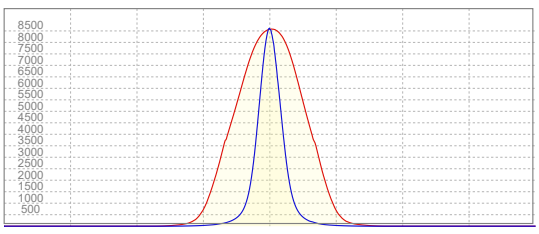
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 85.7 lx

Linear Distribution



Peak Candela

8610 cd

Calculate Center Beam Intensities

lux = 8610 / distance(m)^2

fc = 8610 / distance(ft)^2

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 2494 lm

Peak Intensity: 6946 cd

Beam

Beam Angle (50%): 29.7°x 17.4°

Field Angle (10%): 53.2°x 34.4°

Cutoff Angle (2.5%): 73.7°x 53.5°

Color

Color Temperature: 2470 K

CRI: 82.3

TLCI: 72

TM30 R_F: 87.4

TM30 R_g: 104.5

Power Details

Efficacy: 43 Lumen/Watt

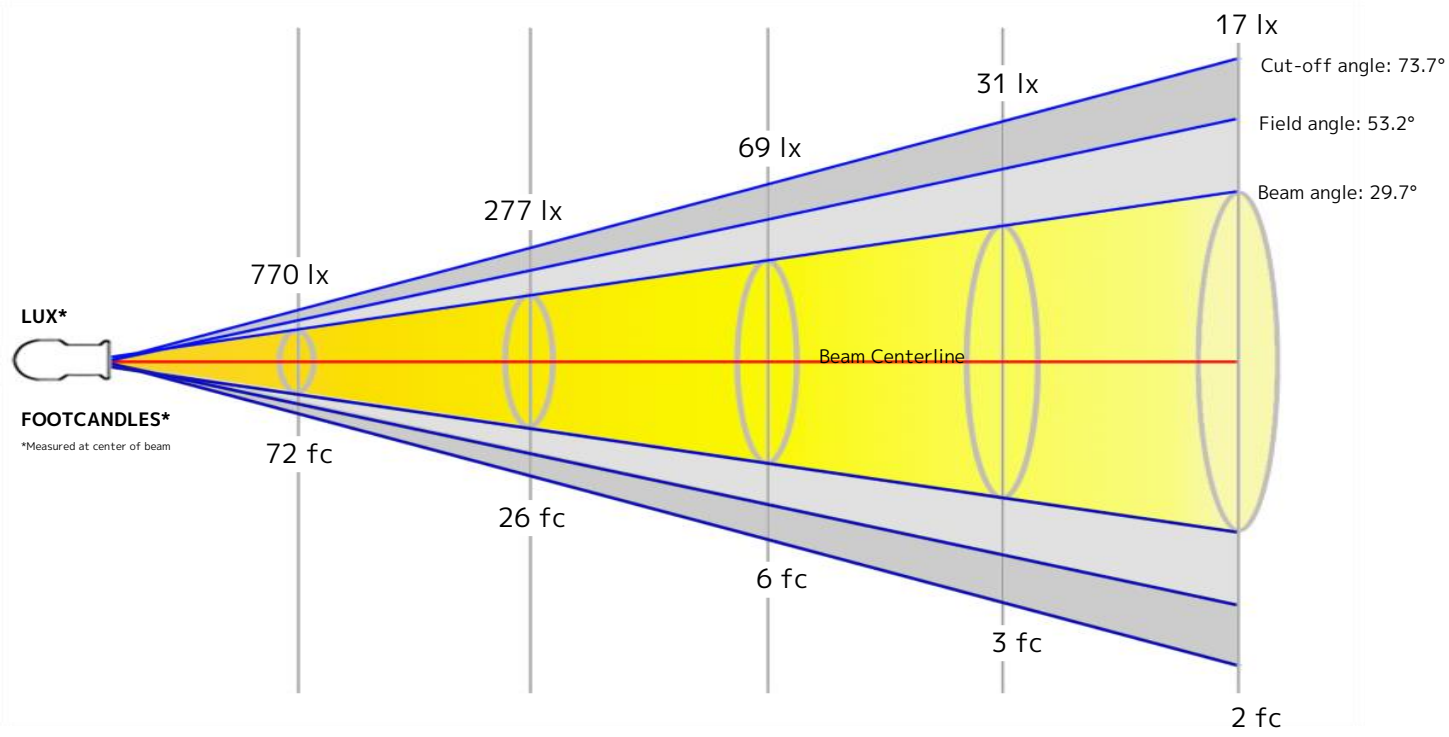
Power: 58.6 W

Supply Voltage: 120 V

Current: 0.497 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.6 m	5.3 m	7.9 m	10.6 m



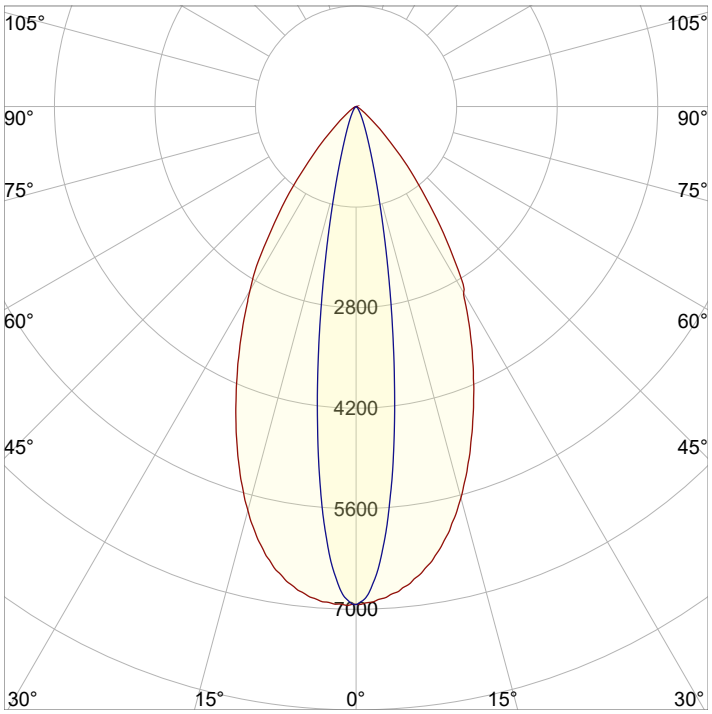
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.2 ft	8.7 ft	17.4 ft	26.1 ft	34.8 ft

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	6931	1733	770	433	277	193	141	108	86	69	57	48	41	35	31	27	24	21	19	17
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	643.9	161	71.5	40.2	25.8	17.9	13.1	10.1	7.9	6.4	5.3	4.5	3.8	3.3	2.9	2.5	2.2	2	1.8	1.6

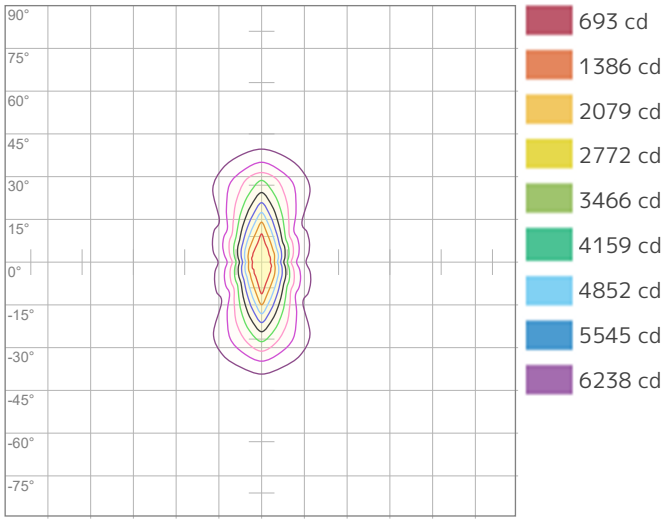
Measurement Date: 6/19/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
29.7°	17.4°
Field Angle - 10%	Field Angle - 10%
53.2°	34.4°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
73.7°	53.5°

ISO Diagrams

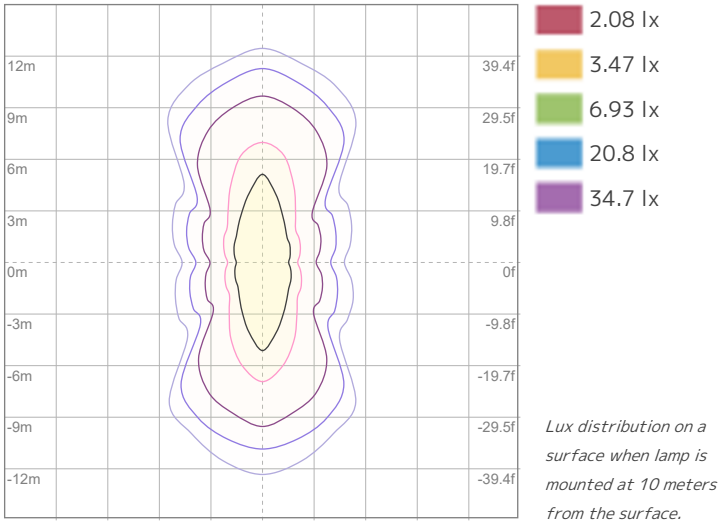


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 6931 cd



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

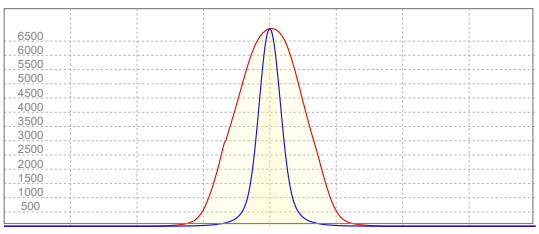
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 69.3 lx

Linear Distribution



Peak Candela

6946 cd

Calculate Center Beam Intensities

lux = 6946 / distance(m)^2

fc = 6946 / distance(ft)^2

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 3232 lm

Peak Intensity: 8841 cd

Beam

Beam Angle (50%): 29.8°x 17.4°

Field Angle (10%): 53.5°x 34.6°

Cutoff Angle (2.5%): 74.9°x 54.7°

Color

Color Temperature: 3240 K

CRI: 88.1

TLCI: 81

TM30 R_F: 91.2

TM30 R_g: 106.8

Power Details

Efficacy: 54 Lumen/Watt

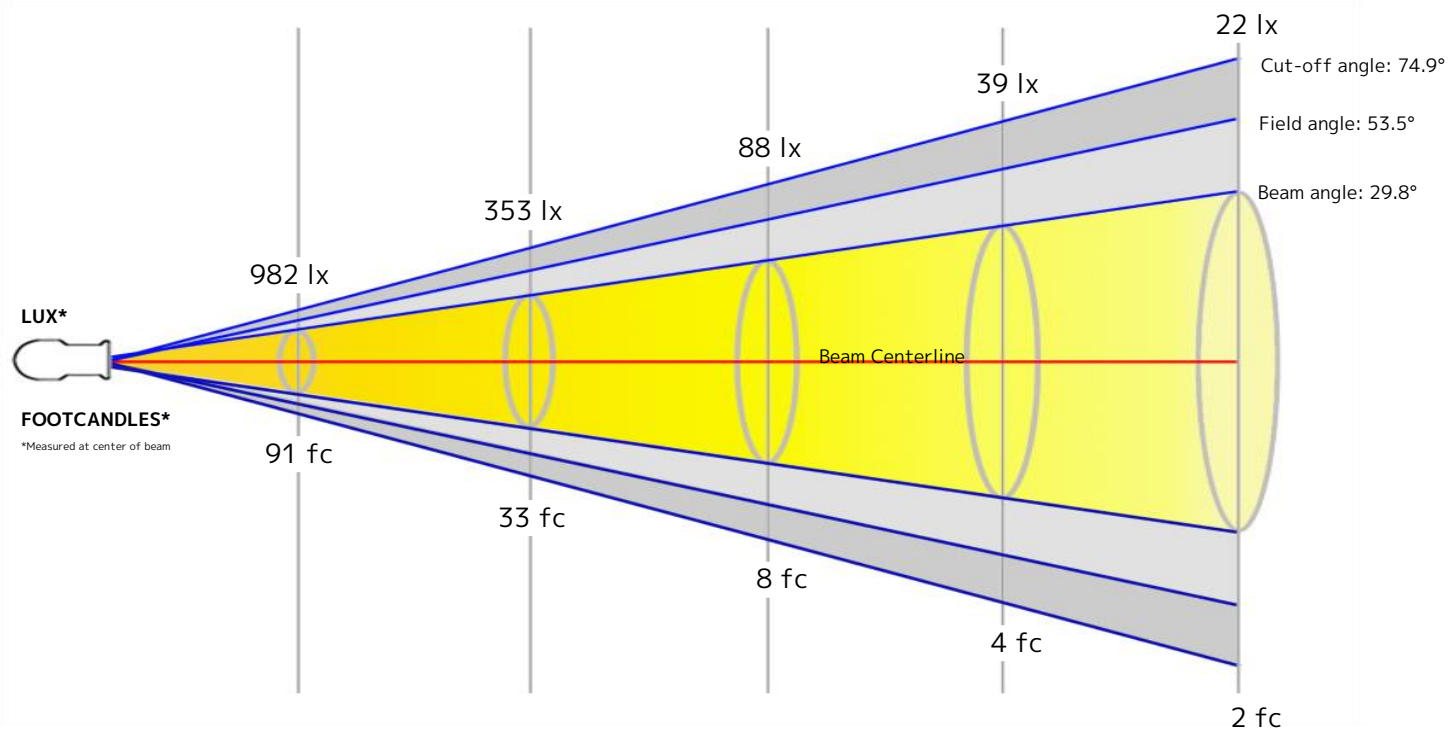
Power: 60.2 W

Supply Voltage: 121 V

Current: 0.510 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



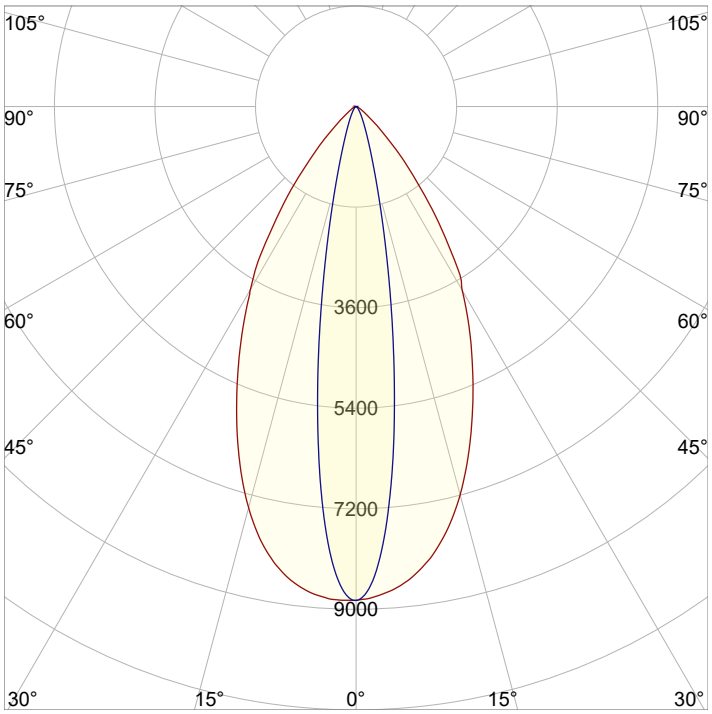
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.2 ft	8.7 ft	17.5 ft	26.2 ft	34.9 ft

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	8836	2209	982	552	353	245	180	138	109	88	73	61	52	45	39	35	31	27	24	22
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	820.9	205.2	91.2	51.3	32.8	22.8	16.8	12.8	10.1	8.2	6.8	5.7	4.9	4.2	3.6	3.2	2.8	2.5	2.3	2.1

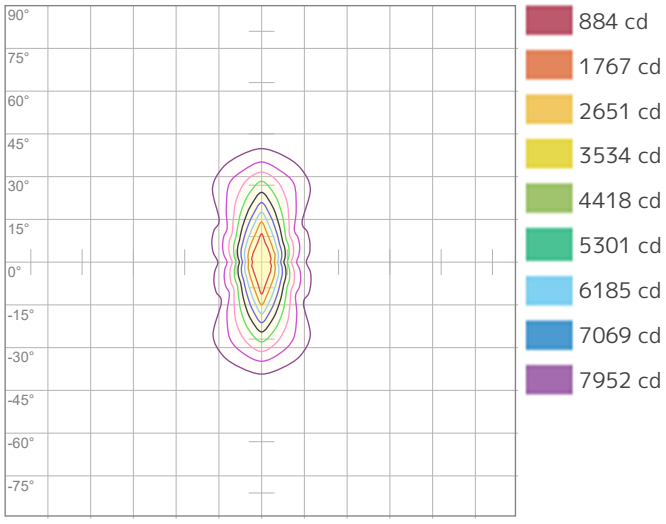
Measurement Date: 6/19/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
29.8°	17.4°
Field Angle - 10%	Field Angle - 10%
53.5°	34.6°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
74.9°	54.7°

ISO Diagrams

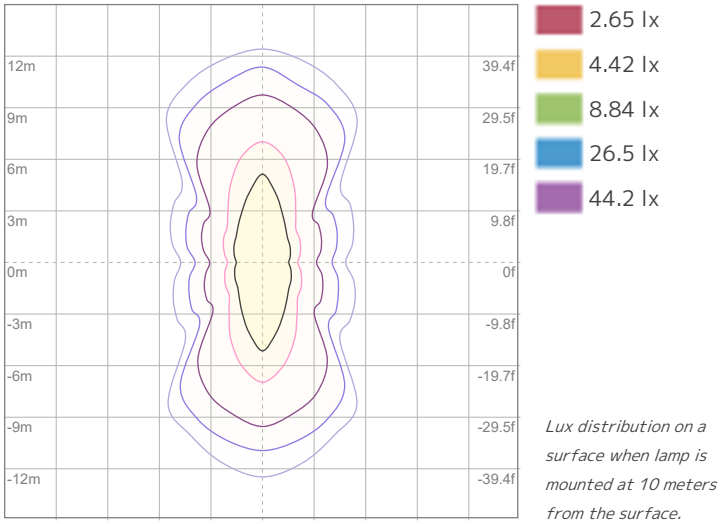


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 8836 cd



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

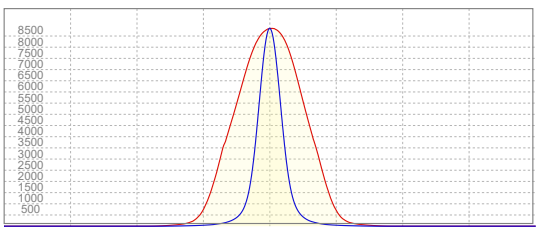
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 88.4 lx

Linear Distribution



Peak Candela

8841 cd

Calculate Center Beam Intensities

lux = 8841 / distance(m)^2

fc = 8841 / distance(ft)^2

Measurement Date: 6/19/2024

Key Measurements

Output

Total Lumen Output: 3241 lm

Peak Intensity: 8754 cd

Beam

Beam Angle (50%): 29.9°x 17.5°

Field Angle (10%): 53.7°x 34.9°

Cutoff Angle (2.5%): 75.6°x 55.4°

Color

Color Temperature: 4524 K

CRI: 90.0

TLCI: 83

TM30 R_F: 90.9

TM30 R_g: 107.4

Power Details

Efficacy: 54 Lumen/Watt

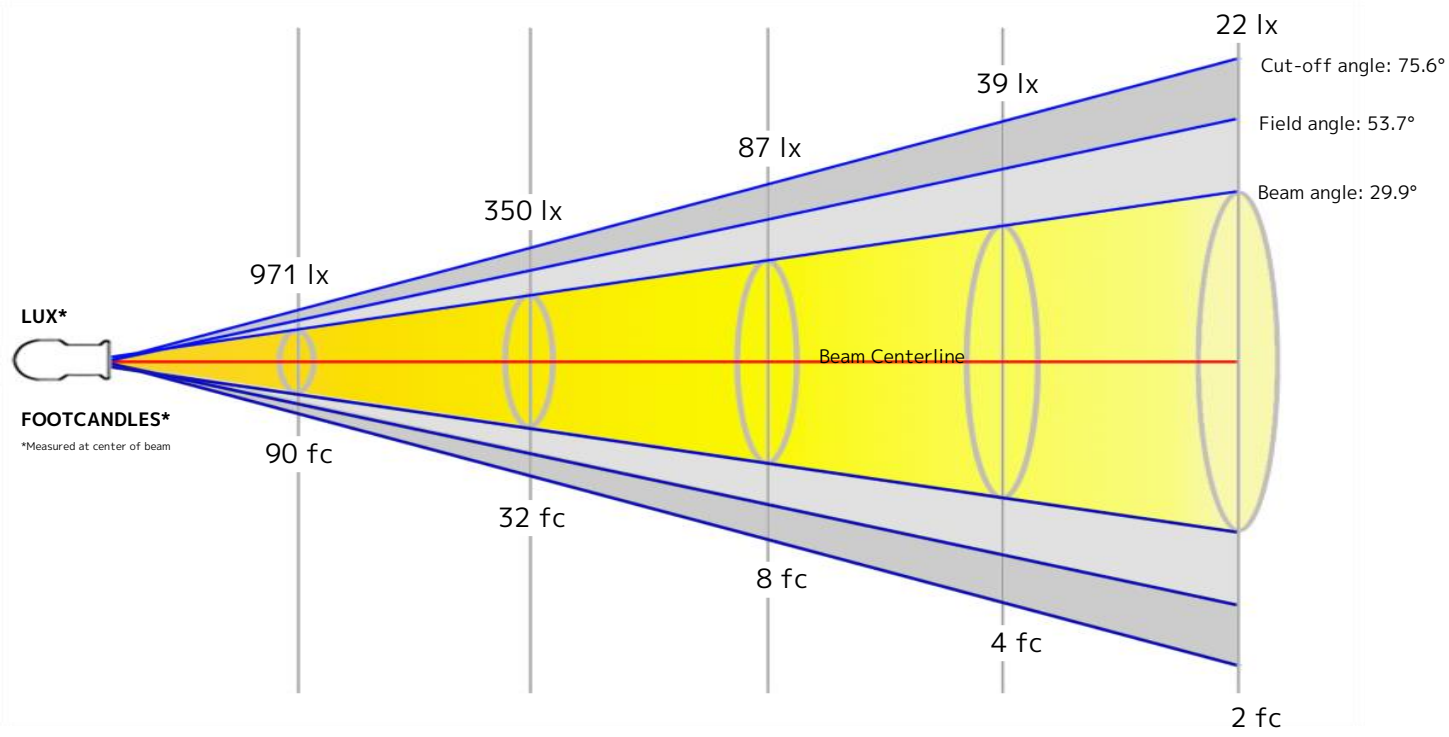
Power: 59.9 W

Supply Voltage: 121 V

Current: 0.507 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



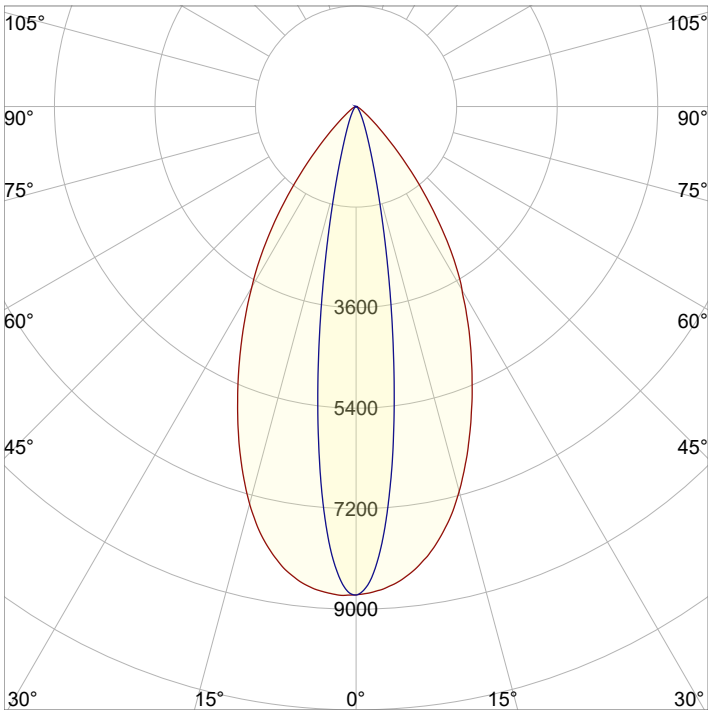
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.2 ft	8.8 ft	17.5 ft	26.3 ft	35.1 ft

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	8739	2185	971	546	350	243	178	137	108	87	72	61	52	45	39	34	30	27	24	22
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	811.9	203	90.2	50.7	32.5	22.6	16.6	12.7	10	8.1	6.7	5.6	4.8	4.1	3.6	3.2	2.8	2.5	2.2	2

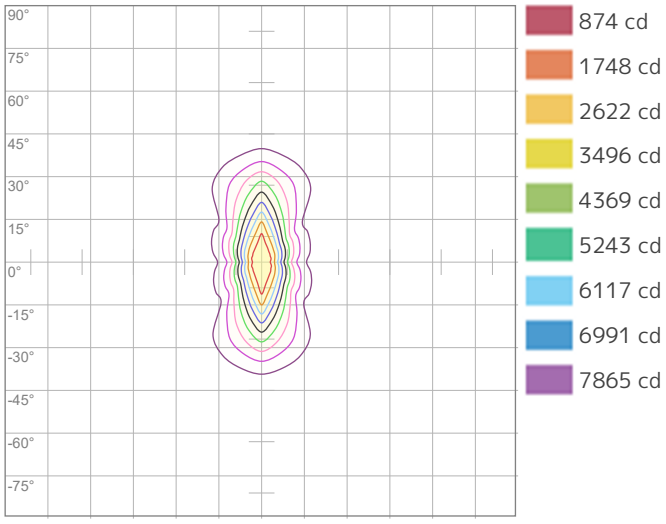
Measurement Date: 6/19/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
29.9°	17.5°
Field Angle - 10%	Field Angle - 10%
53.7°	34.9°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
75.6°	55.4°

ISO Diagrams

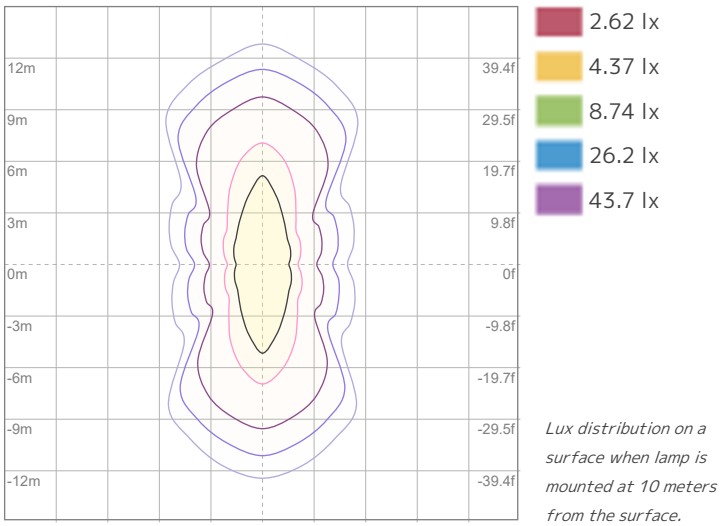


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 8739 cd



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

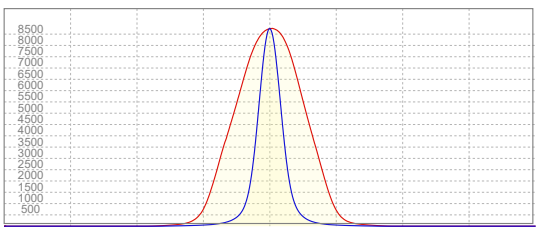
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 87.4 lx

Linear Distribution



Peak Candela

8754 cd

Calculate Center Beam Intensities

lux = 8754 / distance(m)^2

fc = 8754 / distance(ft)^2

Measurement Date: 6/19/2024

Six+ Par S (10°x 60°, 6500K)

Key Measurements

Output

Total Lumen Output: 3168 lm

Peak Intensity: 8483 cd

Beam

Beam Angle (50%): 30°x 17.6°

Field Angle (10%): 53.8°x 35°

Cutoff Angle (2.5%): 76.2°x 56°

Color

Color Temperature: 6493 K

CRI: 89.4

TLCI: 86

TM30 R_F: 89.0

TM30 R_g: 106.5

Power Details

Efficacy: 53 Lumen/Watt

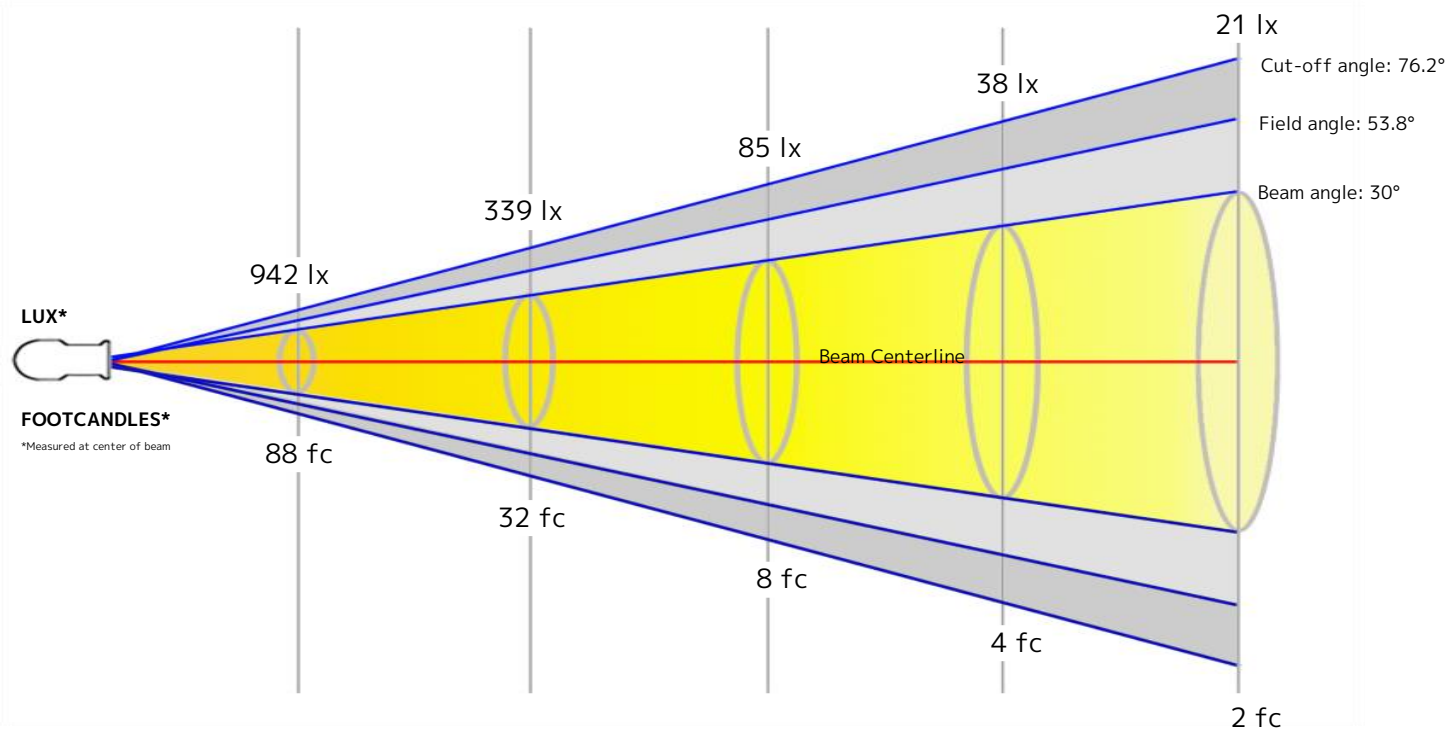
Power: 60.2 W

Supply Voltage: 121 V

Current: 0.512 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



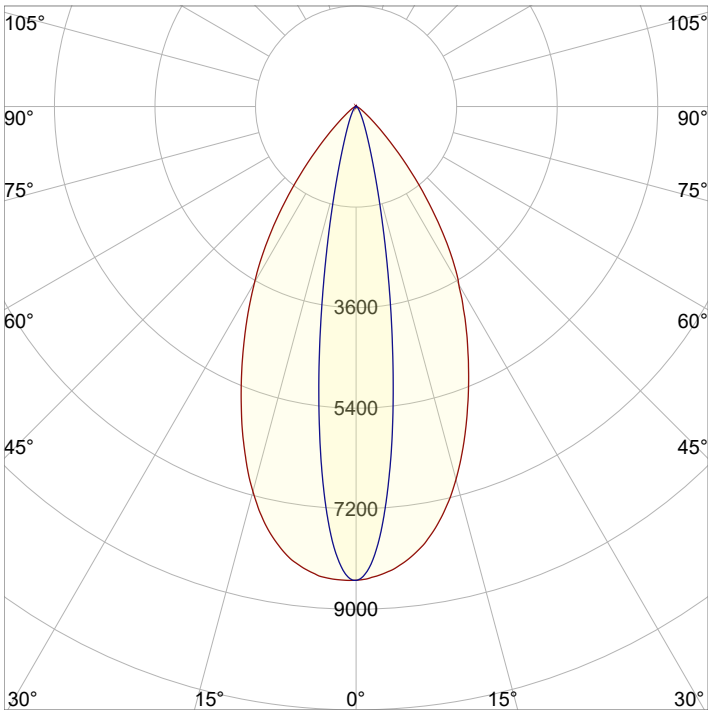
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.3 ft	8.8 ft	17.6 ft	26.4 ft	35.2 ft

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	8477	2119	942	530	339	235	173	132	105	85	70	59	50	43	38	33	29	26	23	21
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	787.6	196.9	87.5	49.2	31.5	21.9	16.1	12.3	9.7	7.9	6.5	5.5	4.7	4	3.5	3.1	2.7	2.4	2.2	2

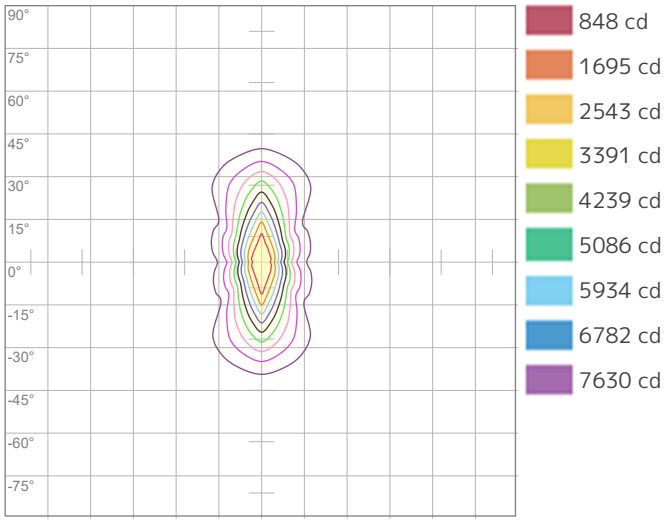
Measurement Date: 6/19/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30°	17.6°
Field Angle - 10%	Field Angle - 10%
53.8°	35°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
76.2°	56°

ISO Diagrams

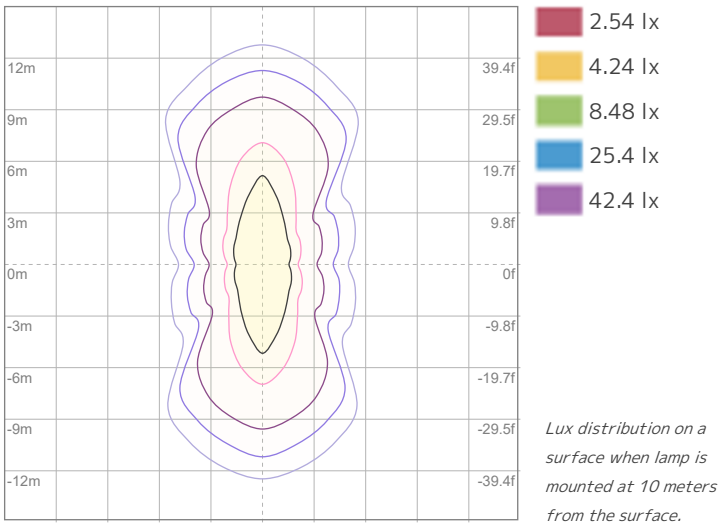


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 8477 cd



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

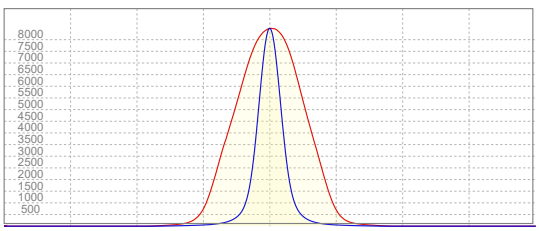
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 84.8 lx

Linear Distribution



Peak Candela

8483 cd

Calculate Center Beam Intensities

lux = 8483 / distance(m)^2

fc = 8483 / distance(ft)^2

Measurement Date: 6/19/2024

Six+ Par S (10°x 60°, 8500K)

Key Measurements

Output

Total Lumen Output: 3128 lm

Peak Intensity: 8346 cd

Beam

Beam Angle (50%): 30°x 17.6°

Field Angle (10%): 54°x 35.1°

Cutoff Angle (2.5%): 76.4°x 56.1°

Color

Color Temperature: 8467 K

CRI: 88.5

TLCI: 88

TM30 R_F: 87.7

TM30 R_g: 104.9

Power Details

Efficacy: 52 Lumen/Watt

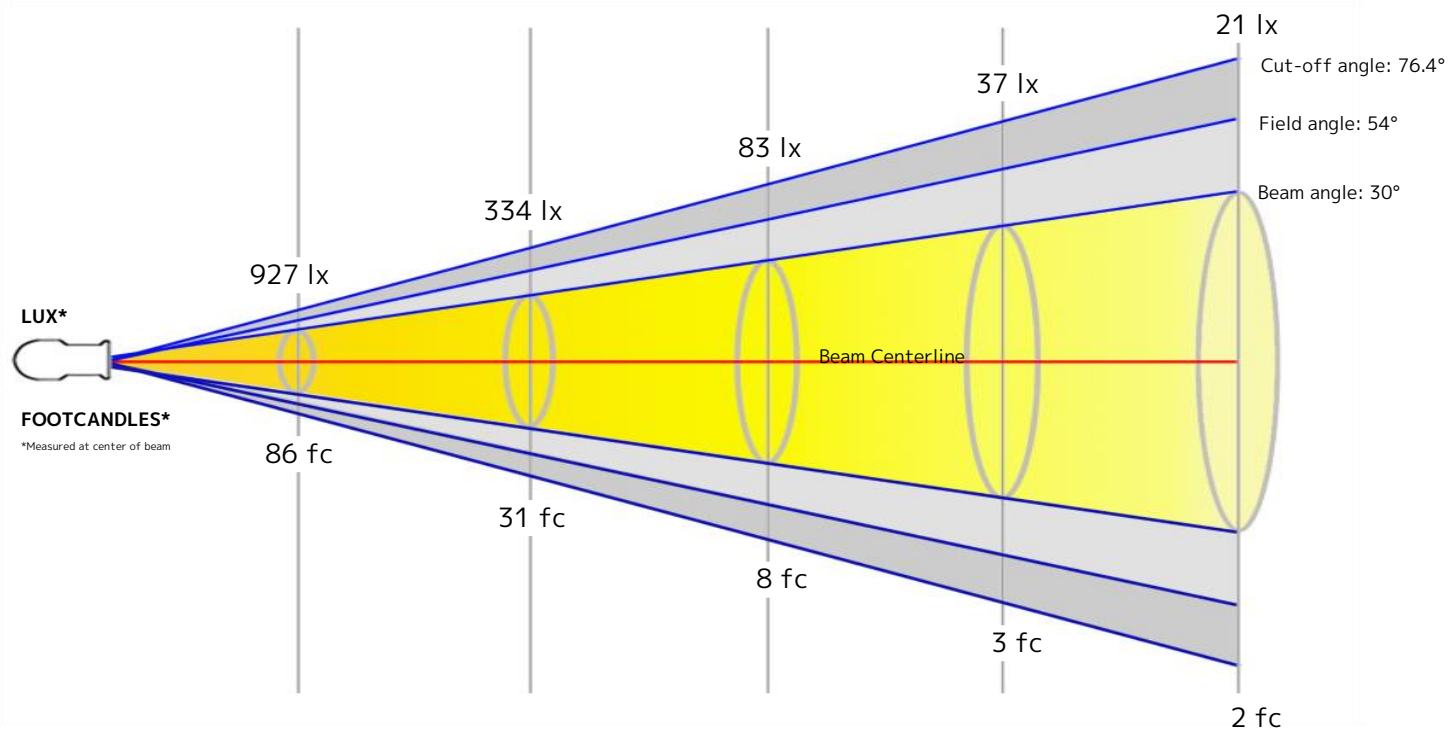
Power: 60.5 W

Supply Voltage: 121 V

Current: 0.514 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



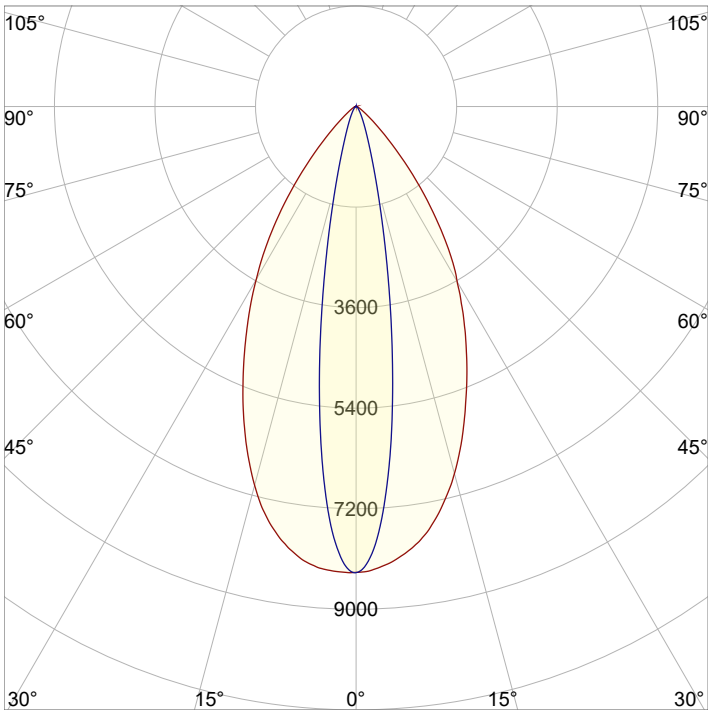
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.3 ft	8.8 ft	17.6 ft	26.4 ft	35.2 ft

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	8339	2085	927	521	334	232	170	130	103	83	69	58	49	43	37	33	29	26	23	21
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	774.7	193.7	86.1	48.4	31	21.5	15.8	12.1	9.6	7.7	6.4	5.4	4.6	4	3.4	3	2.7	2.4	2.1	1.9

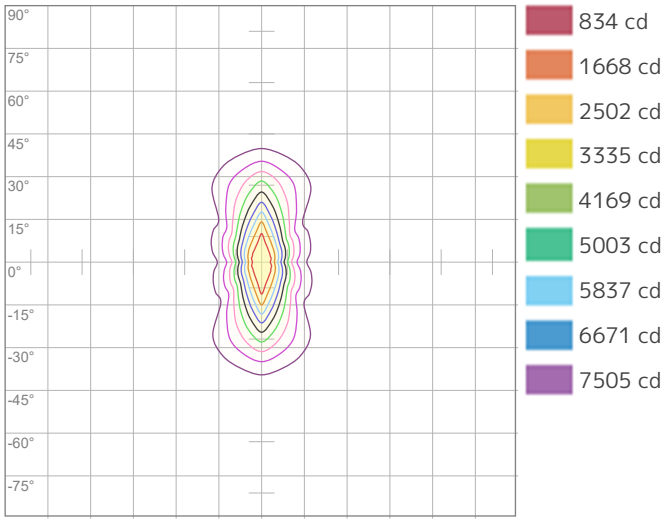
Measurement Date: 6/19/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
30°	17.6°
Field Angle - 10%	Field Angle - 10%
54°	35.1°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
76.4°	56.1°

ISO Diagrams

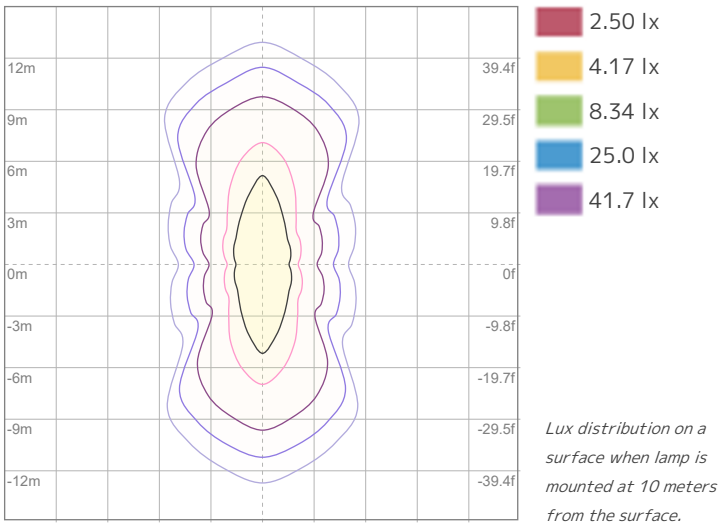


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 8339 cd



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

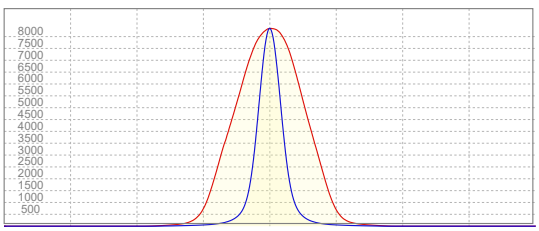
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 83.4 lx

Linear Distribution



Peak Candela

8346 cd

Calculate Center Beam Intensities

lux = 8346 / distance(m)^2

fc = 8346 / distance(ft)^2

Measurement Date: 6/19/2024

Six+ Par S (1°x 40°, Full Output- No UV)

Key Measurements

Output

Total Lumen Output: 2631 lm

Peak Intensity: 12732 cd

Beam

Beam Angle (50%): 23.2°x 14.4°

Field Angle (10%): 39.5°x 25.8°

Cutoff Angle (2.5%): 56.8°x 44.8°

Color

Color Temperature: 7053 K

CRI: 68.5

TLCI: 78

TM30 R_F: 78.7

TM30 R_g: 119.7

Power Details

Efficacy: 44 Lumen/Watt

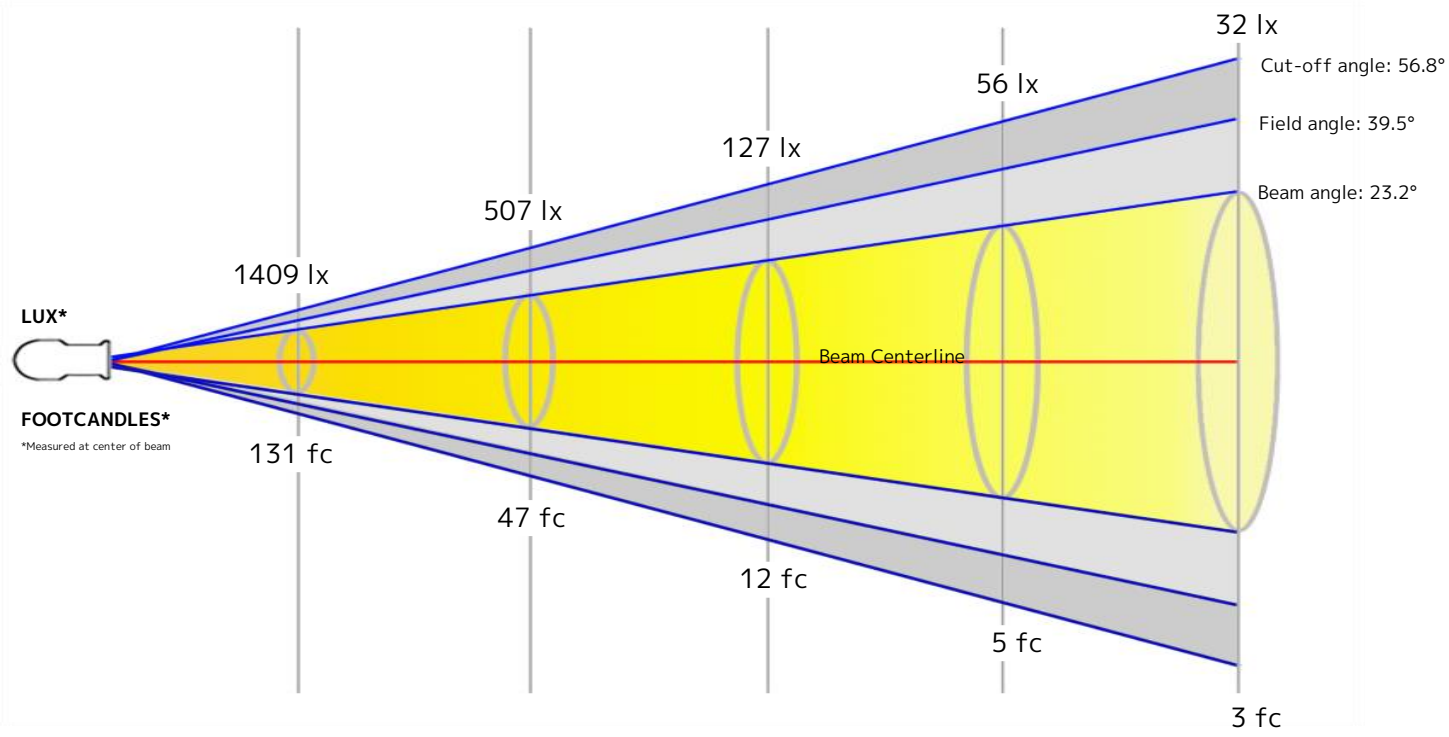
Power: 59.9 W

Supply Voltage: 122 V

Current: 0.501 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.2 m	2.1 m	4.1 m	6.2 m	8.2 m



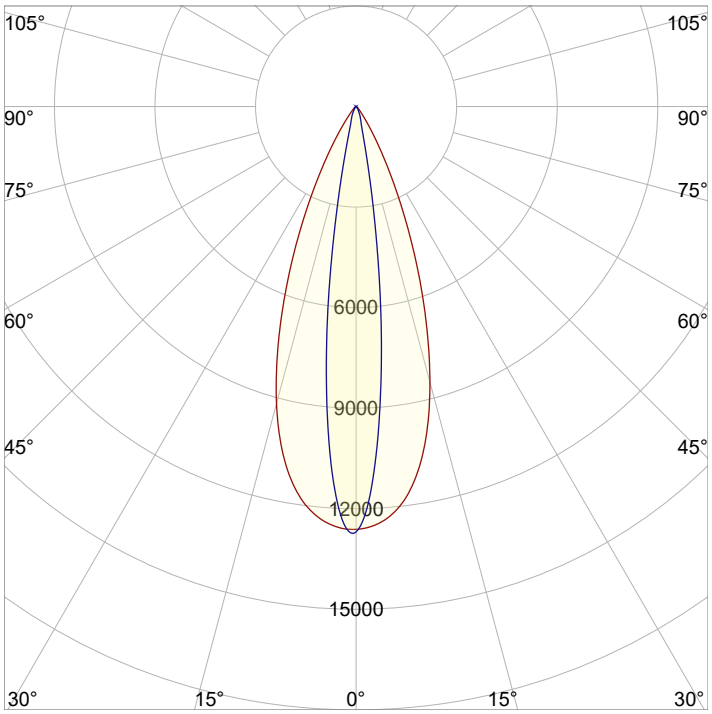
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.5 ft	20.2 ft	26.9 ft

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	12681	3170	1409	793	507	352	259	198	157	127	105	88	75	65	56	50	44	39	35	32
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	1178.1	294.5	130.9	73.6	47.1	32.7	24	18.4	14.5	11.8	9.7	8.2	7	6	5.2	4.6	4.1	3.6	3.3	2.9

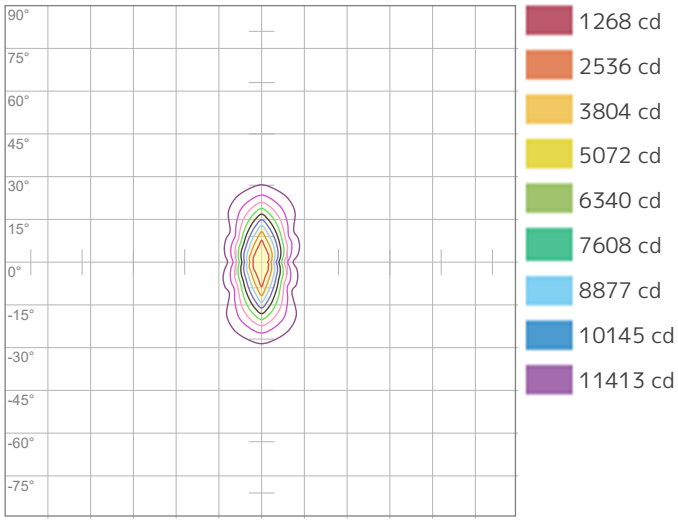
Measurement Date: 6/18/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
23.2°	14.4°
Field Angle - 10%	Field Angle - 10%
39.5°	25.8°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
56.8°	44.8°

ISO Diagrams

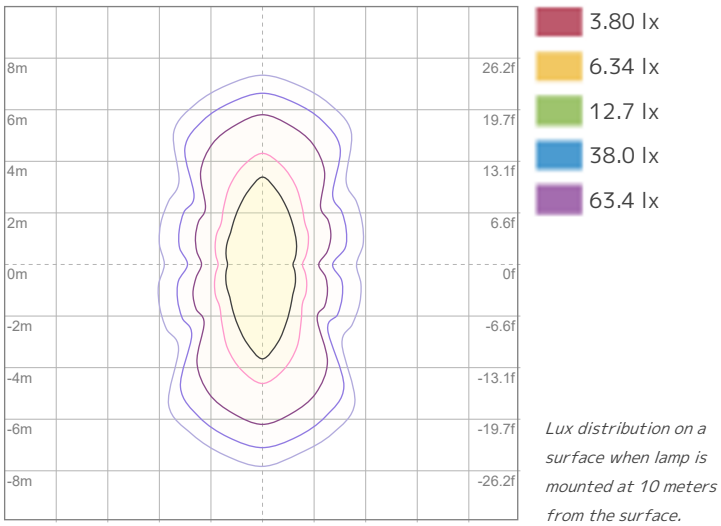


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 12681 cd



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

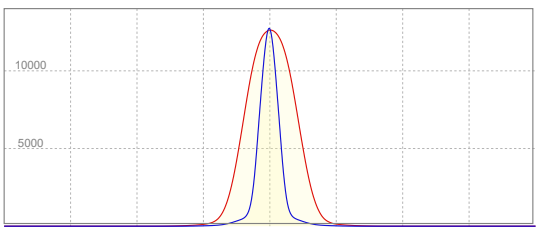
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 127 lx

Linear Distribution



Peak Candela

12732 cd

Calculate Center Beam Intensities

lux = 12732 / distance(m)^2

fc = 12732 / distance(ft)^2

Measurement Date: 6/18/2024

Key Measurements

Output

Total Lumen Output: 2301 lm

Peak Intensity: 11108 cd

Beam

Beam Angle (50%): 23.2°x 14.4°

Field Angle (10%): 39.5°x 25.8°

Cutoff Angle (2.5%): 56.9°x 44.9°

Color

Color Temperature: 7505 K

CRI: 66.6

TLCI: 76

TM30 R_F: 76.9

TM30 R_g: 120.6

Power Details

Efficacy: 39 Lumen/Watt

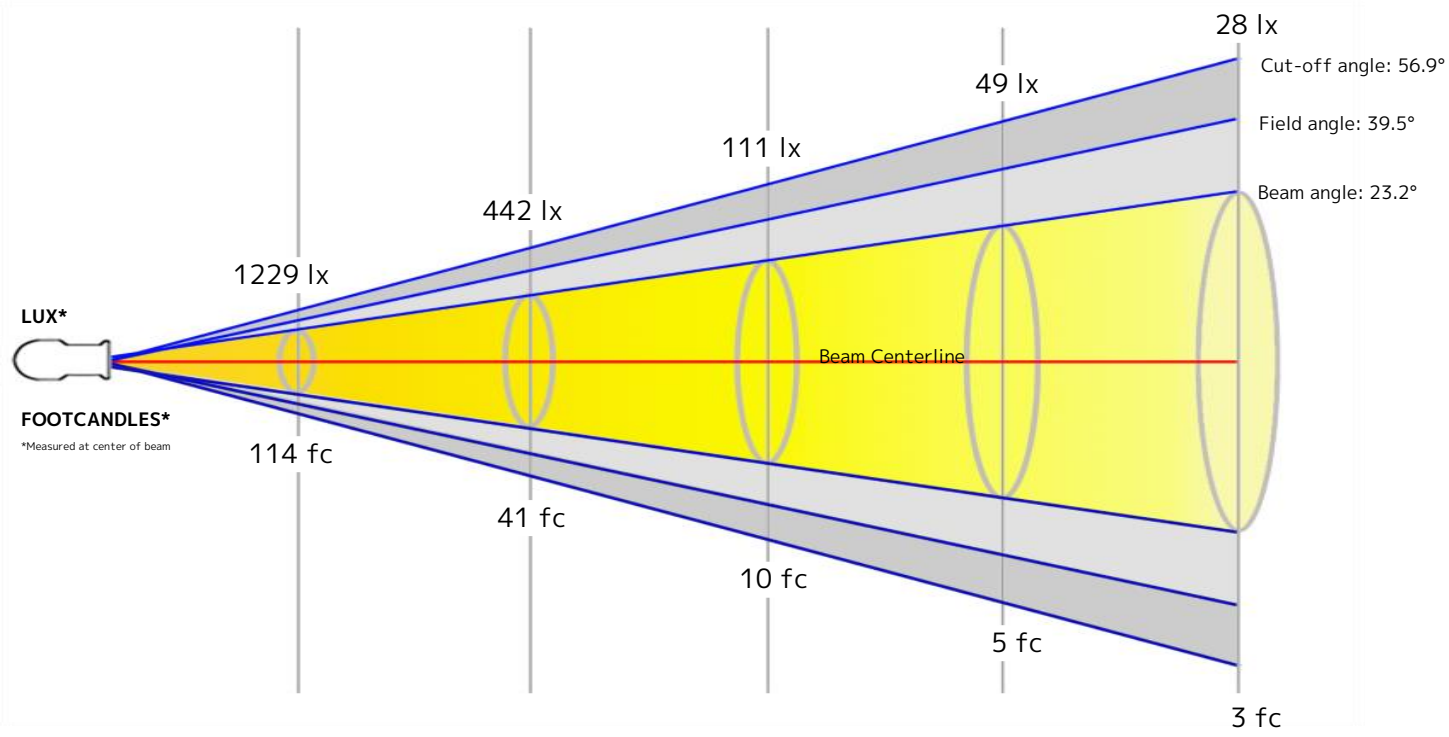
Power: 59.7 W

Supply Voltage: 121 V

Current: 0.503 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.2 m	2.1 m	4.1 m	6.2 m	8.2 m



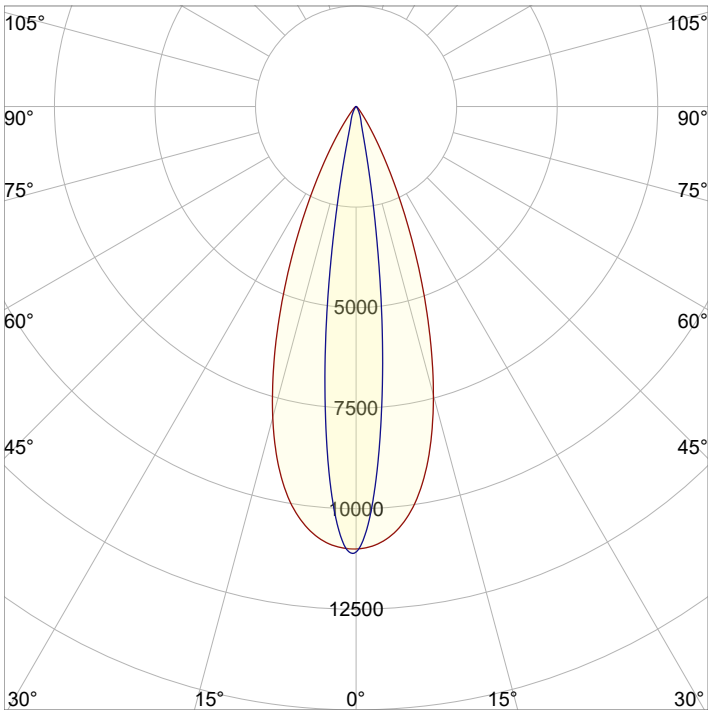
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.5 ft	20.2 ft	26.9 ft

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	11060	2765	1229	691	442	307	226	173	137	111	91	77	65	56	49	43	38	34	31	28
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	1027.5	256.9	114.2	64.2	41.1	28.5	21	16.1	12.7	10.3	8.5	7.1	6.1	5.2	4.6	4	3.6	3.2	2.8	2.6

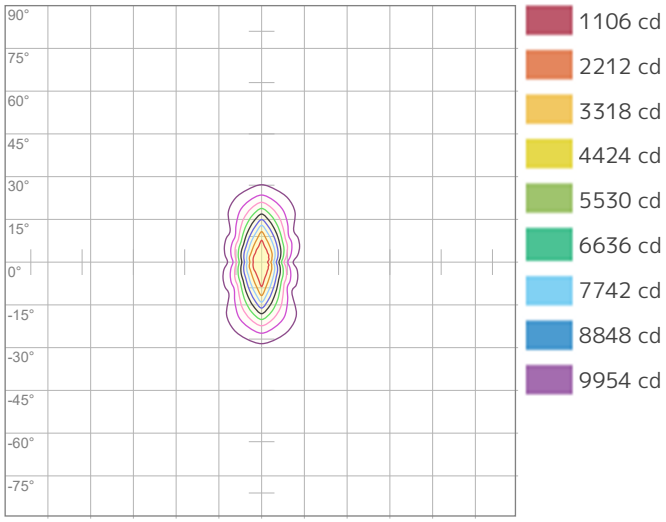
Measurement Date: 6/18/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
23.2°	14.4°
Field Angle - 10%	Field Angle - 10%
39.5°	25.8°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
56.9°	44.9°

ISO Diagrams

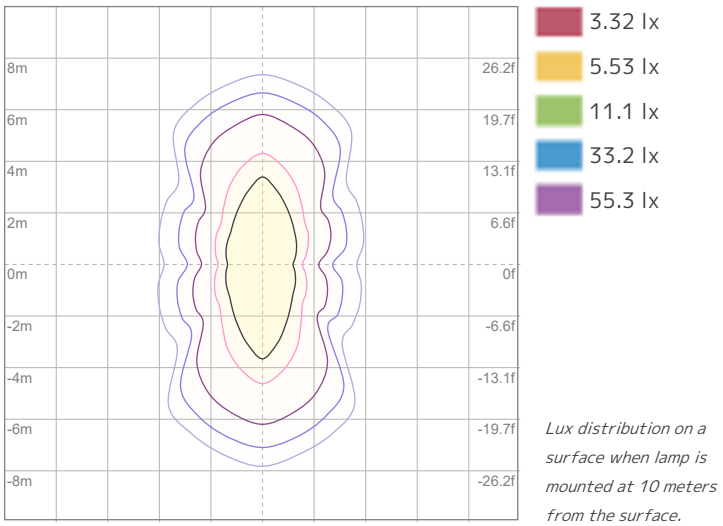


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 11060 cd



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

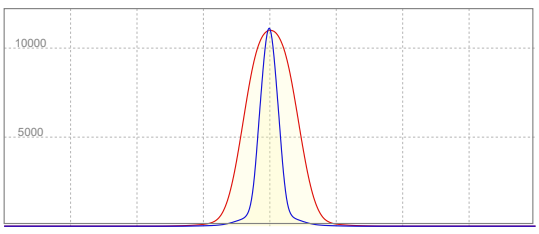
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 111 lx

Linear Distribution



Peak Candela

11108 cd

Calculate Center Beam Intensities

lux = 11108 / distance(m)^2

fc = 11108 / distance(ft)^2

Measurement Date: 6/18/2024

Six+ Par S (1°x 40°, 2400K)

Key Measurements

Output

Total Lumen Output: 2921 lm

Peak Intensity: 14219 cd

Beam

Beam Angle (50%): 23.1°x 14.3°

Field Angle (10%): 39.4°x 25.6°

Cutoff Angle (2.5%): 56.4°x 44.4°

Color

Color Temperature: 2465 K

CRI: 85.9

TLCI: 74

TM30 R_F: 88.6

TM30 R_g: 103.5

Power Details

Efficacy: 53 Lumen/Watt

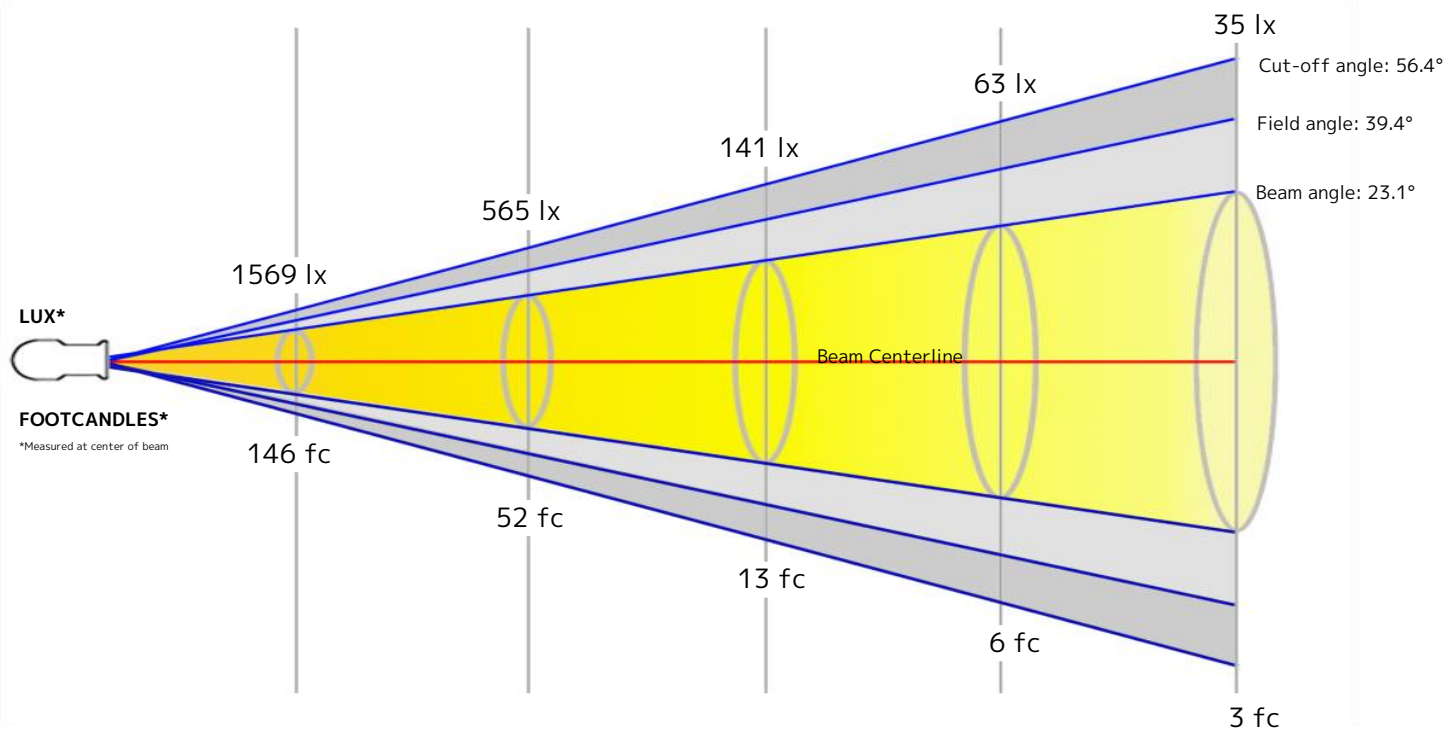
Power: 55.6 W

Supply Voltage: 120 V

Current: 0.473 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.2 m	2 m	4.1 m	6.1 m	8.2 m



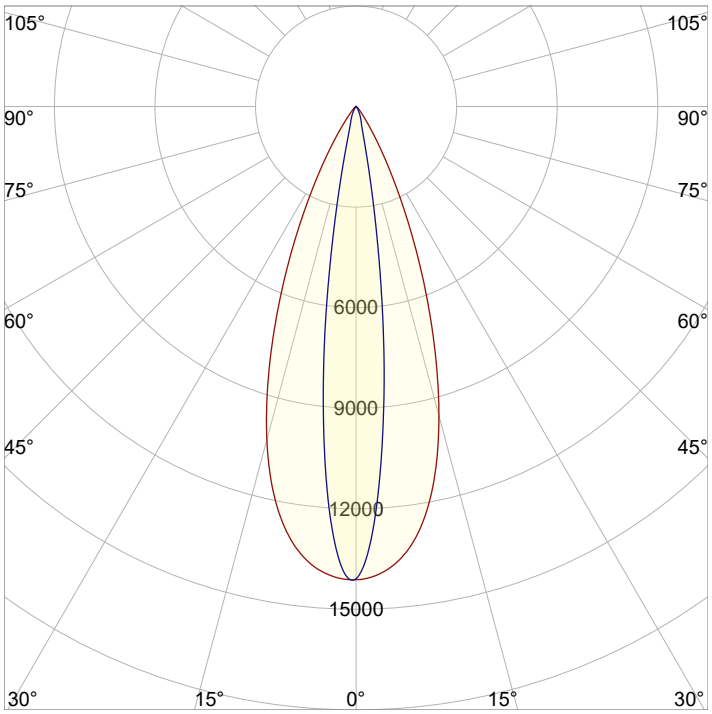
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.4 ft	20.1 ft	26.9 ft

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	14121	3530	1569	883	565	392	288	221	174	141	117	98	84	72	63	55	49	44	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	1311.9	328	145.8	82	52.5	36.4	26.8	20.5	16.2	13.1	10.8	9.1	7.8	6.7	5.8	5.1	4.5	4	3.6	3.3

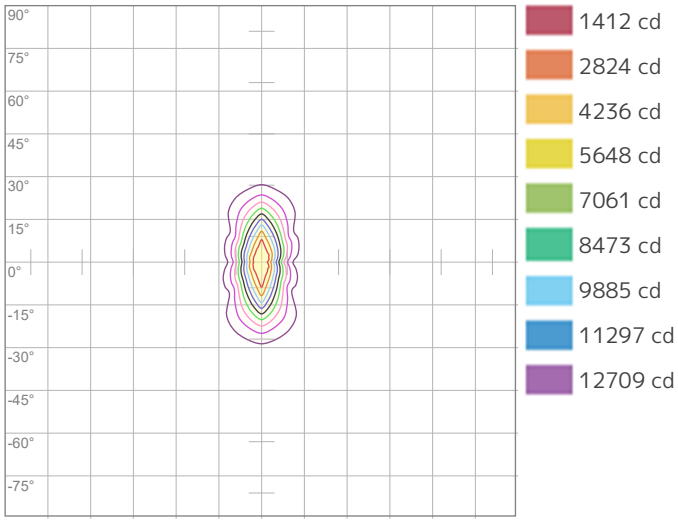
Measurement Date: 6/18/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
23.1°	14.3°
Field Angle - 10%	Field Angle - 10%
39.4°	25.6°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
56.4°	44.4°

ISO Diagrams

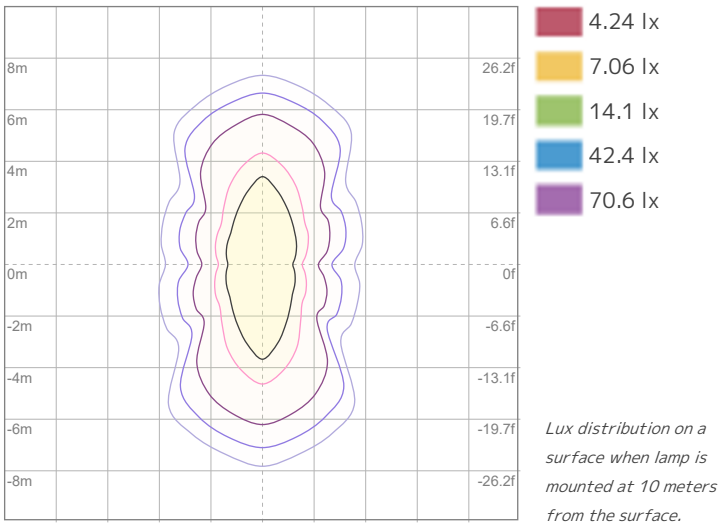


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 14121 cd



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

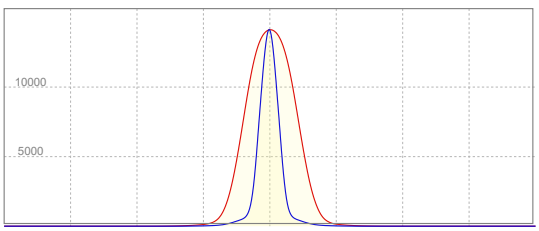
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 141 lx

Linear Distribution



Peak Candela

14219 cd

Calculate Center Beam Intensities

lux = 14219 / distance(m)^2

fc = 14219 / distance(ft)^2

Measurement Date: 6/18/2024

Six+ Par S (1°x 40°, 3200K)

Key Measurements

Output

Total Lumen Output: 3438 lm

Peak Intensity: 16773 cd

Beam

Beam Angle (50%): 23.1°x 14.3°

Field Angle (10%): 39.3°x 25.6°

Cutoff Angle (2.5%): 56.4°x 44.5°

Color

Color Temperature: 3236 K

CRI: 89.5

TLCI: 82

TM30 R_F: 91.6

TM30 R_g: 106.7

Power Details

Efficacy: 52 Lumen/Watt

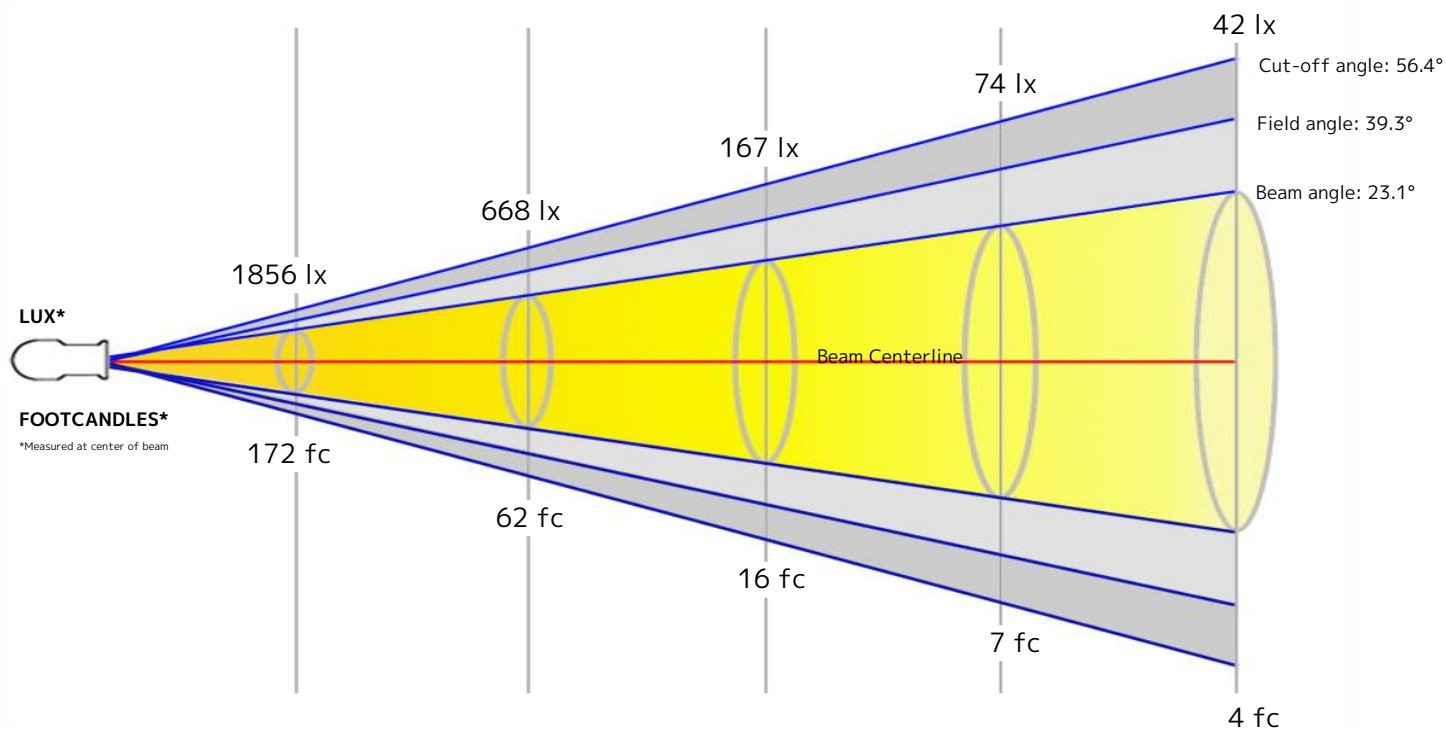
Power: 65.9 W

Supply Voltage: 120 V

Current: 0.558 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.2 m	2 m	4.1 m	6.1 m	8.2 m



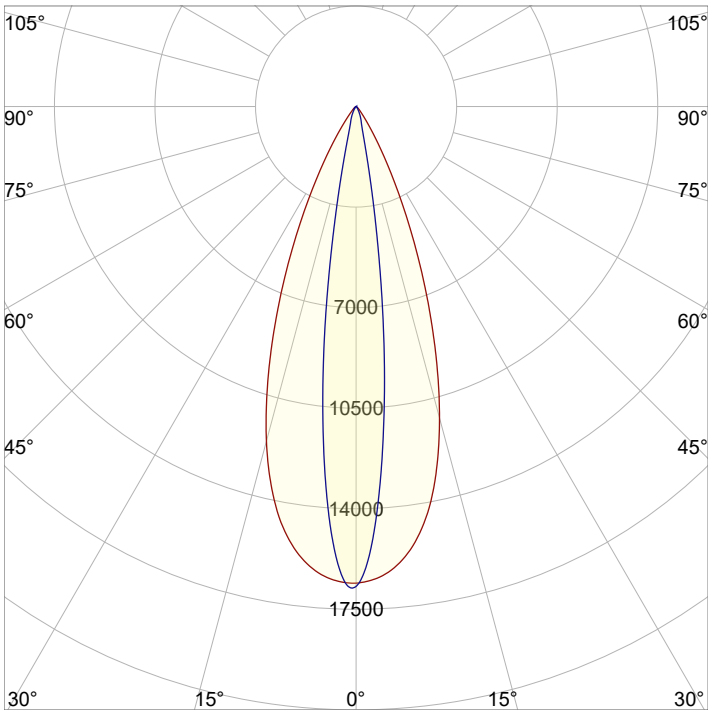
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.4 ft	20.1 ft	26.8 ft

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	16700	4175	1856	1044	668	464	341	261	206	167	138	116	99	85	74	65	58	52	46	42
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	1551.5	387.9	172.4	97	62.1	43.1	31.7	24.2	19.2	15.5	12.8	10.8	9.2	7.9	6.9	6.1	5.4	4.8	4.3	3.9

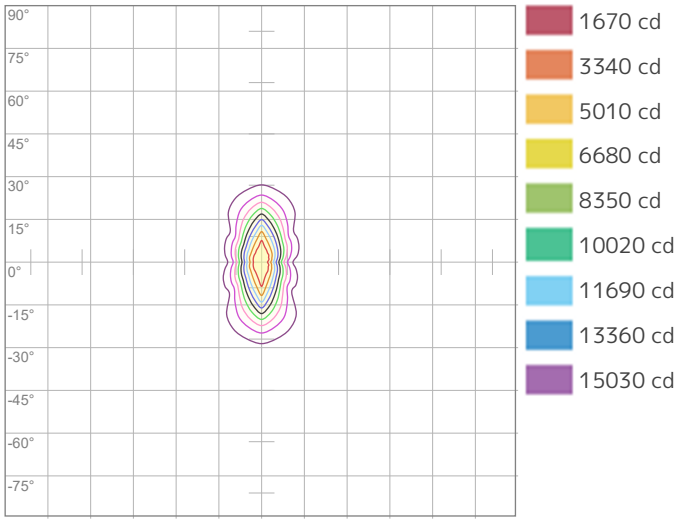
Measurement Date: 6/18/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
23.1°	14.3°
Field Angle - 10%	Field Angle - 10%
39.3°	25.6°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
56.4°	44.5°

ISO Diagrams

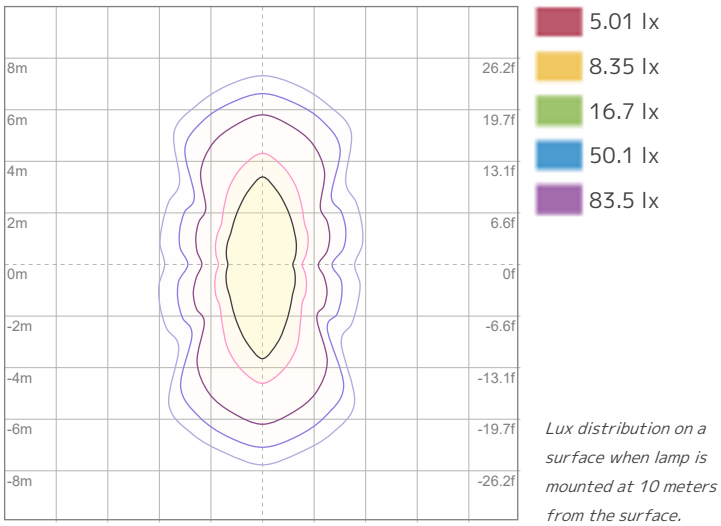


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 16700 cd



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

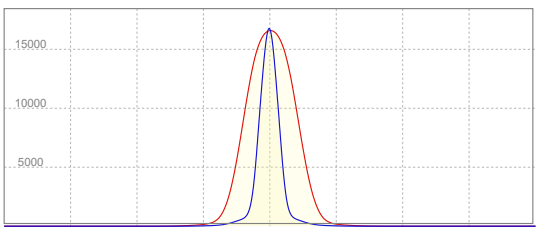
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 167 lx

Linear Distribution



Peak Candela

16773 cd

Calculate Center Beam Intensities

lux = 16773 / distance(m)^2

fc = 16773 / distance(ft)^2

Measurement Date: 6/18/2024

Key Measurements

Output

Total Lumen Output: 3064 lm

Peak Intensity: 14749 cd

Beam

Beam Angle (50%): 23.2°x 14.4°

Field Angle (10%): 39.4°x 25.7°

Cutoff Angle (2.5%): 57.1°x 45.2°

Color

Color Temperature: 4510 K

CRI: 90.0

TLCI: 82

TM30 R_F: 90.9

TM30 R_g: 107.4

Power Details

Efficacy: 51 Lumen/Watt

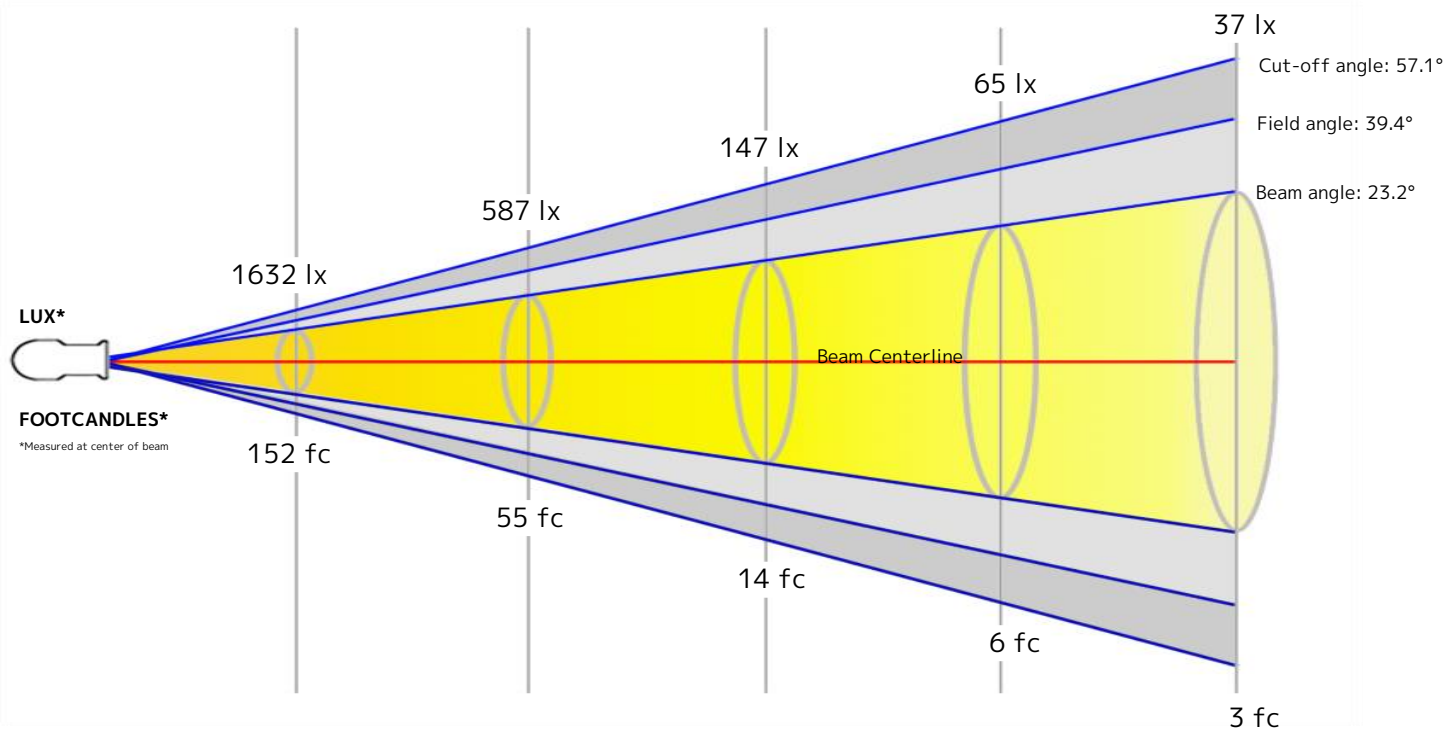
Power: 60.0 W

Supply Voltage: 121 V

Current: 0.508 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.2 m	2 m	4.1 m	6.1 m	8.2 m



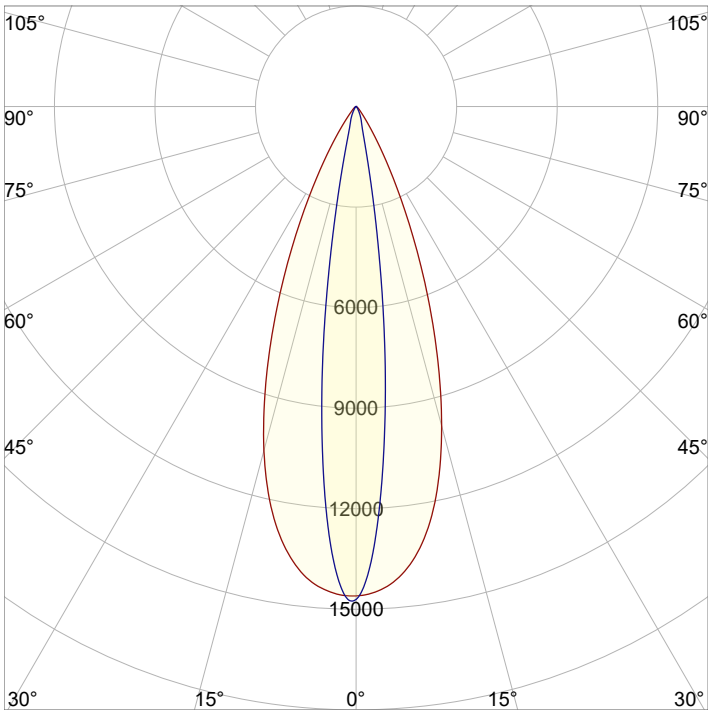
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.4 ft	20.2 ft	26.9 ft

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	14685	3671	1632	918	587	408	300	229	181	147	121	102	87	75	65	57	51	45	41	37
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	1364.3	341.1	151.6	85.3	54.6	37.9	27.8	21.3	16.8	13.6	11.3	9.5	8.1	7	6.1	5.3	4.7	4.2	3.8	3.4

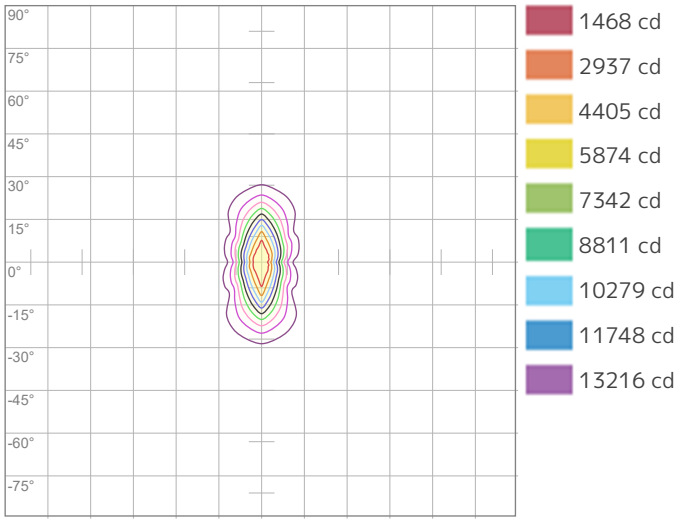
Measurement Date: 6/18/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
23.2°	14.4°
Field Angle - 10%	Field Angle - 10%
39.4°	25.7°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
57.1°	45.2°

ISO Diagrams

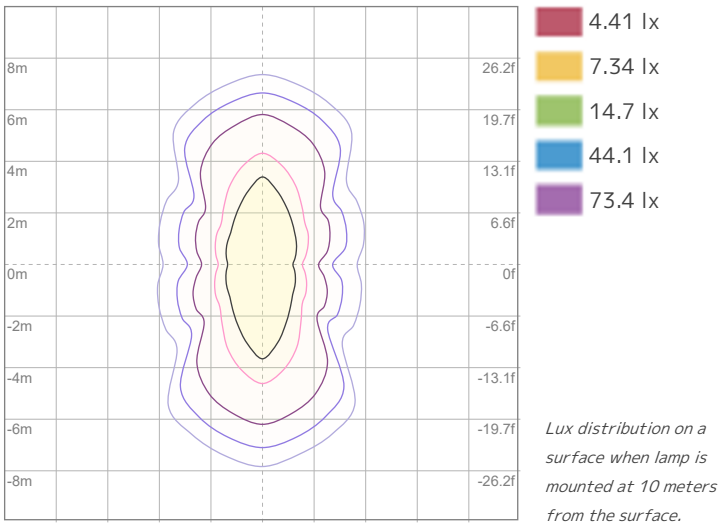


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 14685 cd



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

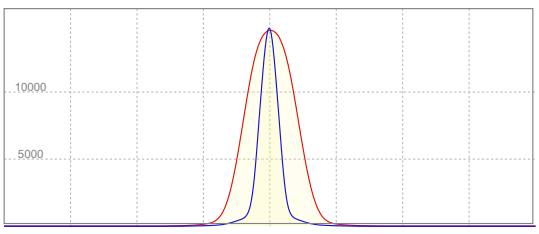
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 147 lx

Linear Distribution



Peak Candela

14749 cd

Calculate Center Beam Intensities

lux = 14749 / distance(m)^2

fc = 14749 / distance(ft)^2

Measurement Date: 6/18/2024

Key Measurements

Output

Total Lumen Output: 2892 lm

Peak Intensity: 14103 cd

Beam

Beam Angle (50%): 23.2°x 14.4°

Field Angle (10%): 39.5°x 25.7°

Cutoff Angle (2.5%): 56.5°x 44.4°

Color

Color Temperature: 6510 K

CRI: 89.4

TLCI: 86

TM30 R_F: 88.9

TM30 R_g: 106.3

Power Details

Efficacy: 49 Lumen/Watt

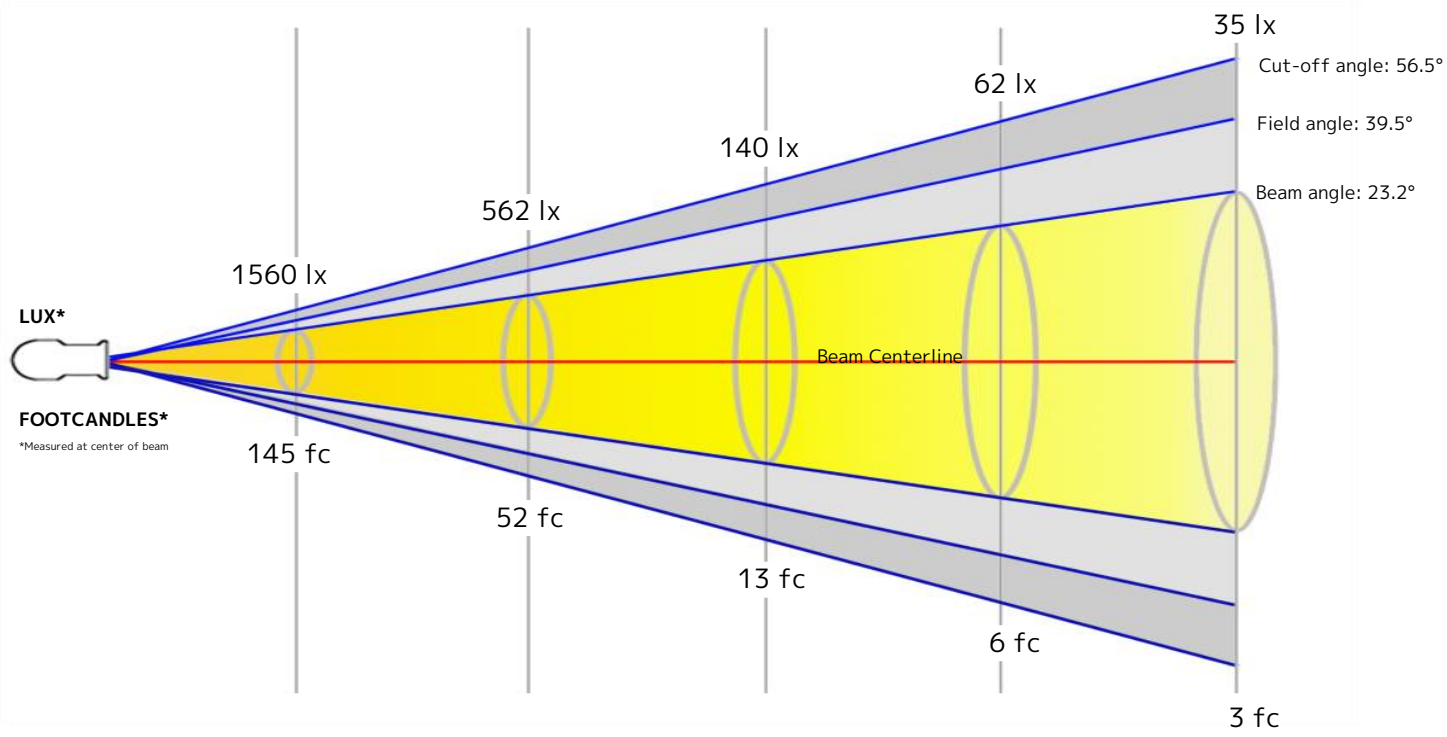
Power: 59.5 W

Supply Voltage: 121 V

Current: 0.504 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.2 m	2 m	4.1 m	6.1 m	8.2 m



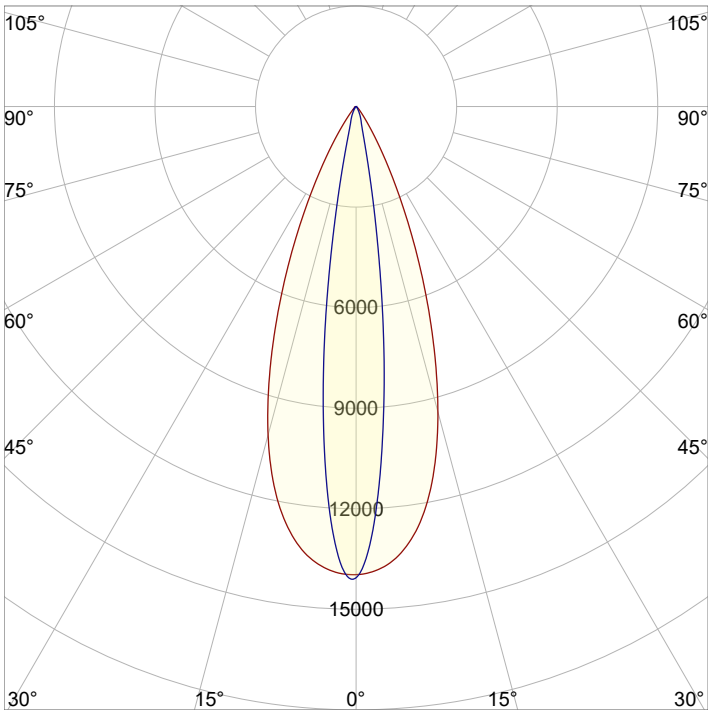
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.4 ft	20.2 ft	26.9 ft

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	14044	3511	1560	878	562	390	287	219	173	140	116	98	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	1304.7	326.2	145	81.5	52.2	36.2	26.6	20.4	16.1	13	10.8	9.1	7.7	6.7	5.8	5.1	4.5	4	3.6	3.3

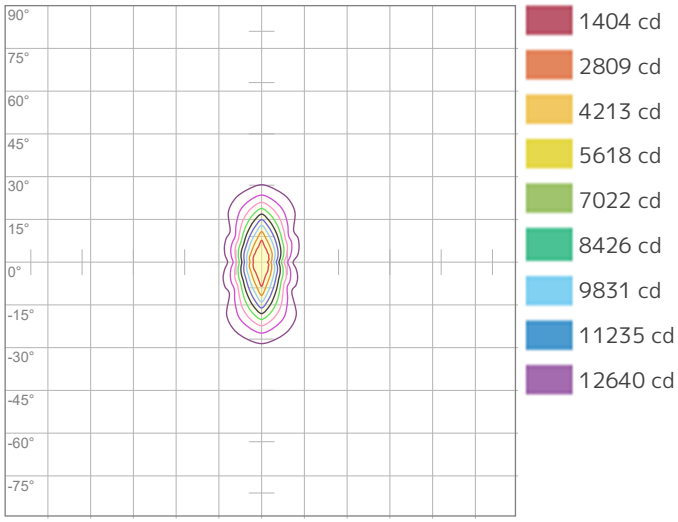
Measurement Date: 6/18/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
23.2°	14.4°
Field Angle - 10%	Field Angle - 10%
39.5°	25.7°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
56.5°	44.4°

ISO Diagrams

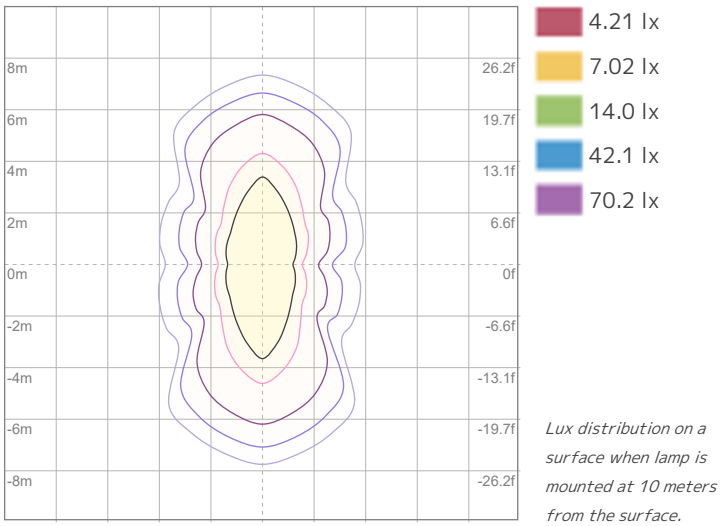


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 14044 cd



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

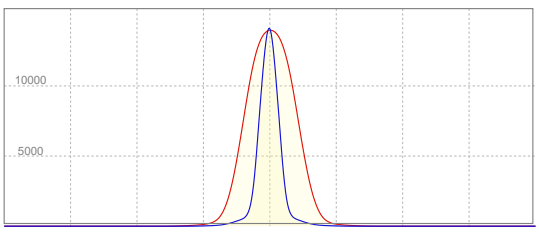
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 140 lx

Linear Distribution



Peak Candela

14103 cd

Calculate Center Beam Intensities

lux = 14103 / distance(m)^2

fc = 14103 / distance(ft)^2

Measurement Date: 6/18/2024

Key Measurements

Output

Total Lumen Output: 3012 lm

Peak Intensity: 14228 cd

Beam

Beam Angle (50%): 23.3°x 14.5°

Field Angle (10%): 39.7°x 26°

Cutoff Angle (2.5%): 58°x 45.9°

Color

Color Temperature: 8547 K

CRI: 88.4

TLCI: 88

TM30 R_F: 87.7

TM30 R_g: 105.0

Power Details

Efficacy: 49 Lumen/Watt

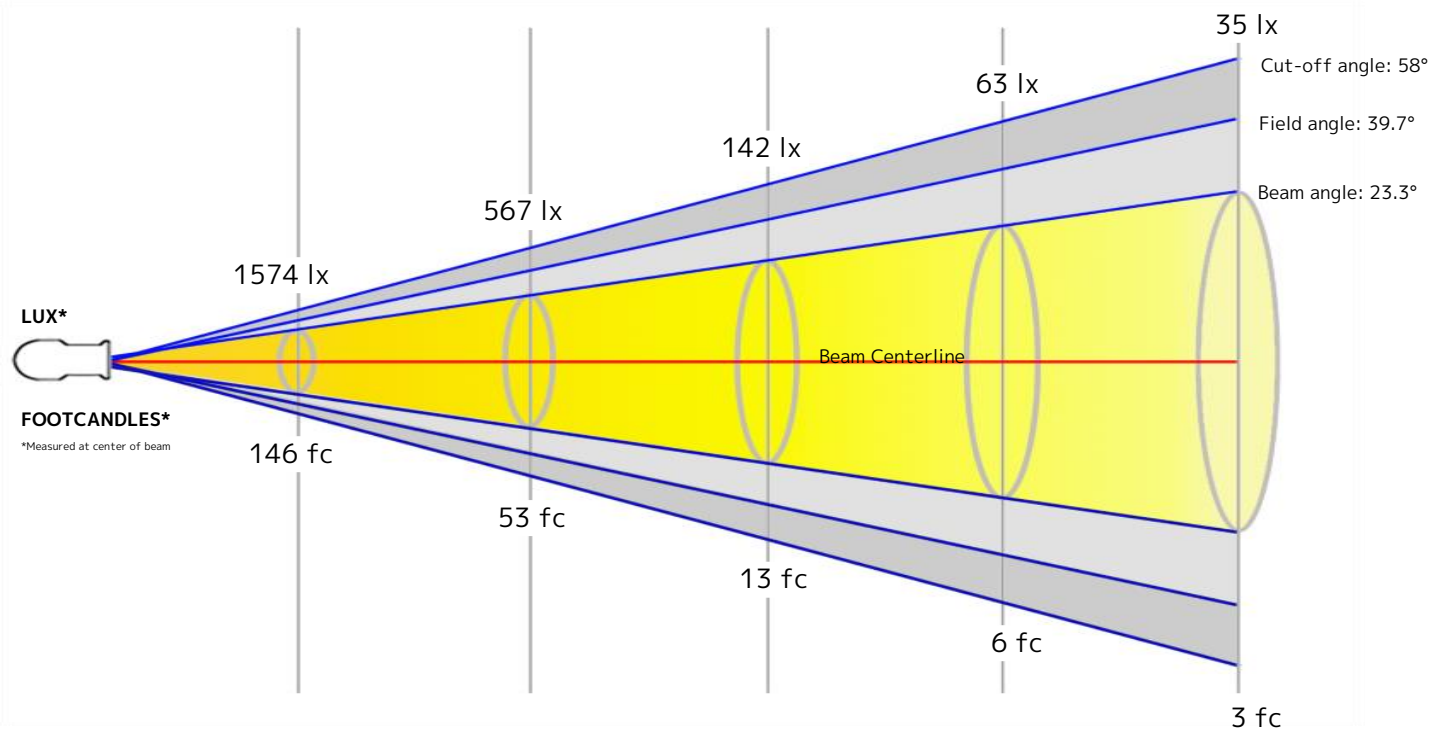
Power: 61.3 W

Supply Voltage: 121 V

Current: 0.516 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.2 m	2.1 m	4.1 m	6.2 m	8.2 m



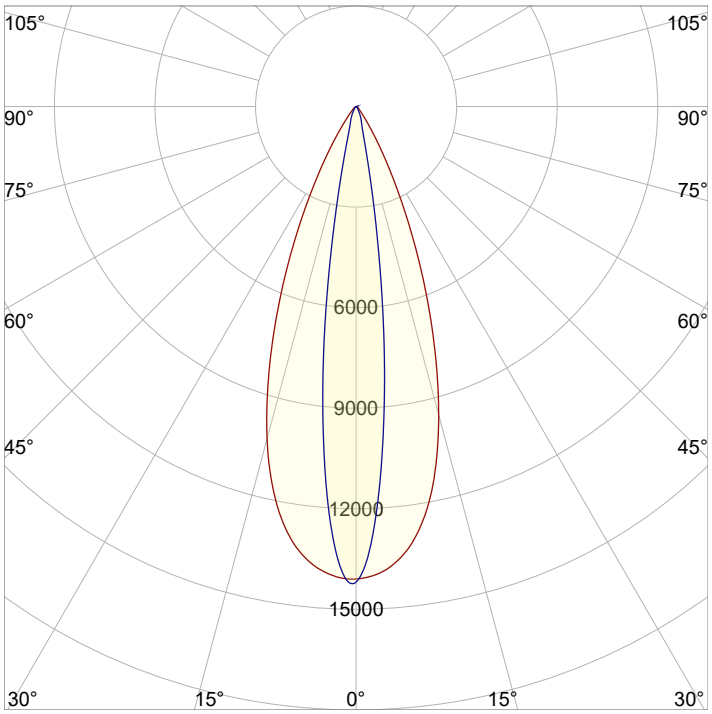
Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.5 ft	20.2 ft	27 ft

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	14170	3543	1574	886	567	394	289	221	175	142	117	98	84	72	63	55	49	44	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	1316.5	329.1	146.3	82.3	52.7	36.6	26.9	20.6	16.3	13.2	10.9	9.1	7.8	6.7	5.9	5.1	4.6	4.1	3.6	3.3

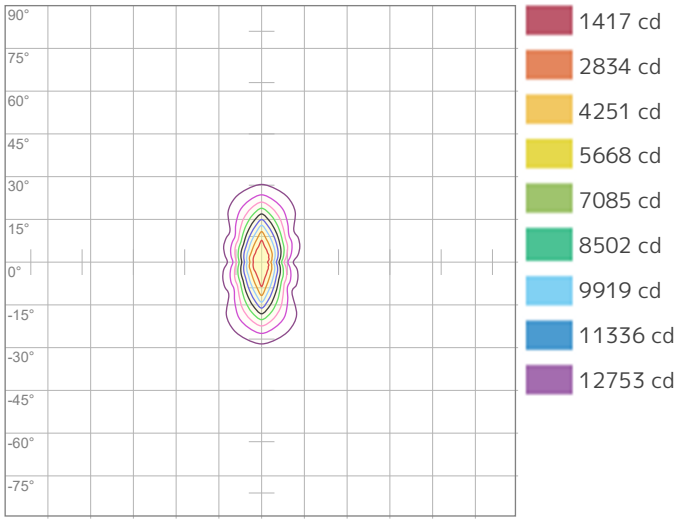
Measurement Date: 6/18/2024

Angular Distribution



Plane A	Plane B
Beam Angle - 50%	Beam Angle - 50%
23.3°	14.5°
Field Angle - 10%	Field Angle - 10%
39.7°	26°
Cutoff Angle - 2.5%	Cutoff Angle - 2.5%
58°	45.9°

ISO Diagrams

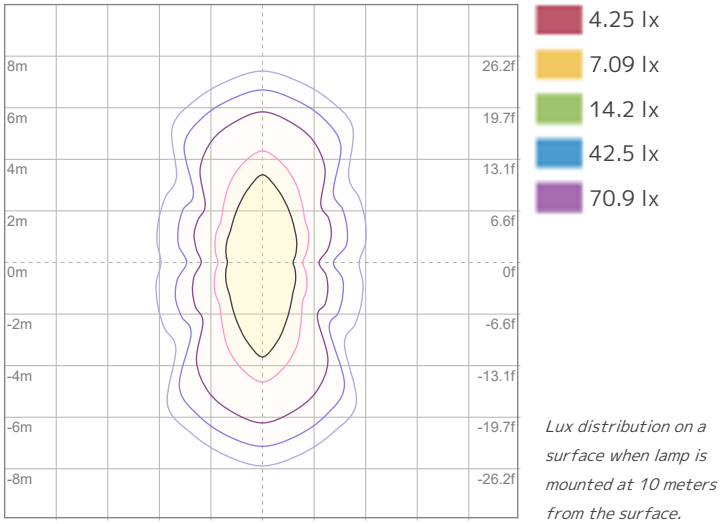


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 14170 cd



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

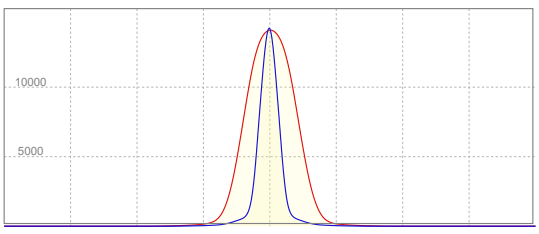
ISO LUX Diagram

Conditions:

Number of c-planes: 8

LUX at center: 142 lx

Linear Distribution



Peak Candela

14228 cd

Calculate Center Beam Intensities

lux = 14228 / distance(m)^2

fc = 14228 / distance(ft)^2

Measurement Date: 6/18/2024