

ELATION[®]



FUZE PENDANT

85° Photometric &
Chromaticity Test Reports

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Elation Professional USA | 6122 S. Eastern Ave. | Los Angeles, CA. 90040

323-582-3322 | www.elationlighting.com | info@elationlighting.com

Elation Professional B.V. | Junostraat 2 | 6468 EW Kerkrade, The Netherlands

+31 45 546 85 66 | +31 45 546 85 96 fax | www.elationlighting.eu | info@elationlighting.eu

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

+52 (728) 282-7070

Testing Process

Total Lumen Measurements

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

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

Test Lab Equipment and Process

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

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

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

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

[Asenstek Lighting Passport](#) | [Konica Minolta T-10](#) | [Sekonic C800U](#)

Key Measurements

Output

Total Lumen Output: 5298 lm
Peak Intensity: 3034 cd

Beam

Beam Angle (50%): 82.9°
Field Angle (10%): 124.5°
Cutoff Angle (2.5%): 139.9°

Color

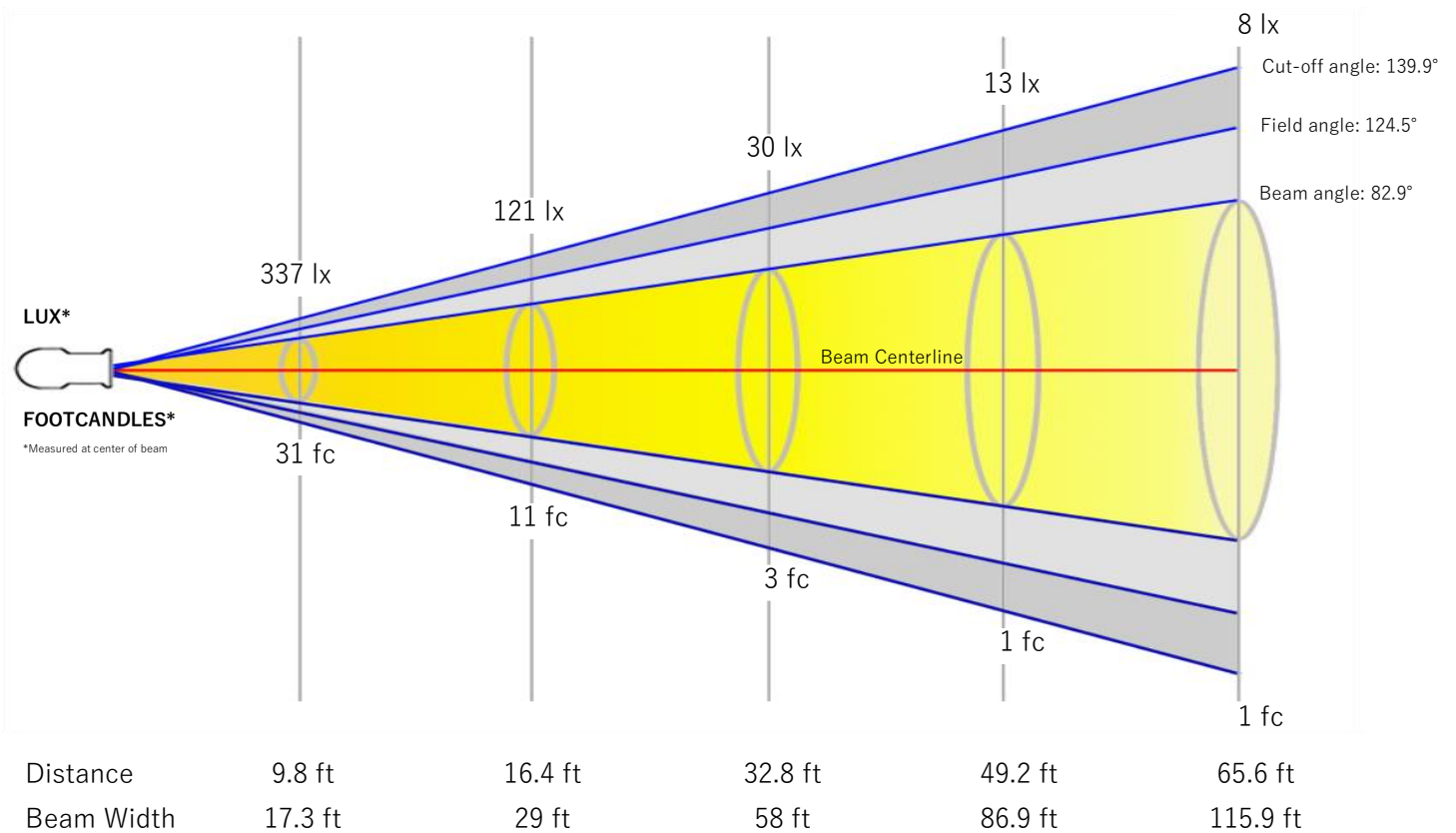
Color Temperature: 2327 K
CRI: 78.7
TLCI: 78
TM30 R_F: 86.8
TM30 R_g: 110.9

Power Details

Efficacy: 51 Lumen/Watt
Power: 104.7 W
Supply Voltage: 117 V
Current: 0.915 A

Beam Details

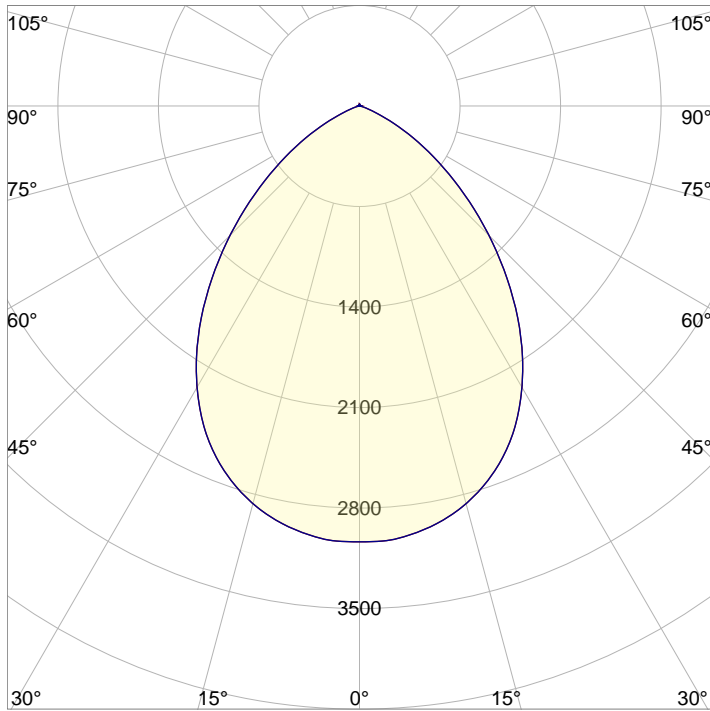
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.7 m	26.5 m	35.3 m



Beam Intensities from 1-20m

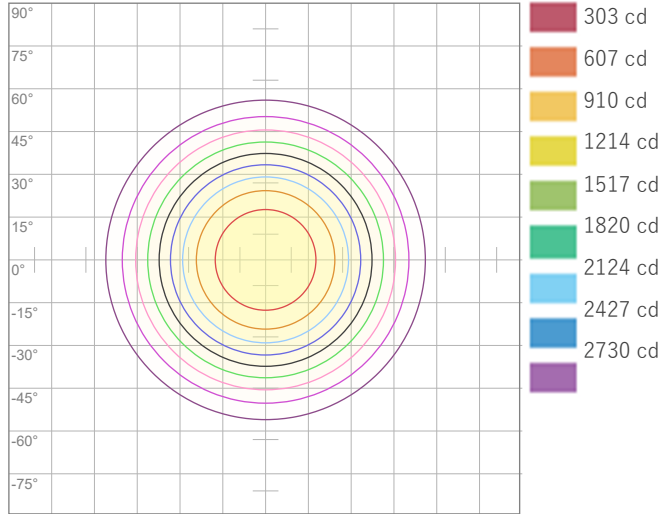
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	3034	758	337	190	121	84	62	47	37	30	25	21	18	15	13	12	10	9	8	8
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	281.9	70.5	31.3	17.6	11.3	7.8	5.8	4.4	3.5	2.8	2.3	2	1.7	1.4	1.3	1.1	1	0.9	0.8	0.7

Angular Distribution



Beam Angle - 50%
82.9°
Field Angle - 10%
124.5°
Cutoff Angle - 2.5%
139.9°

ISO Diagrams

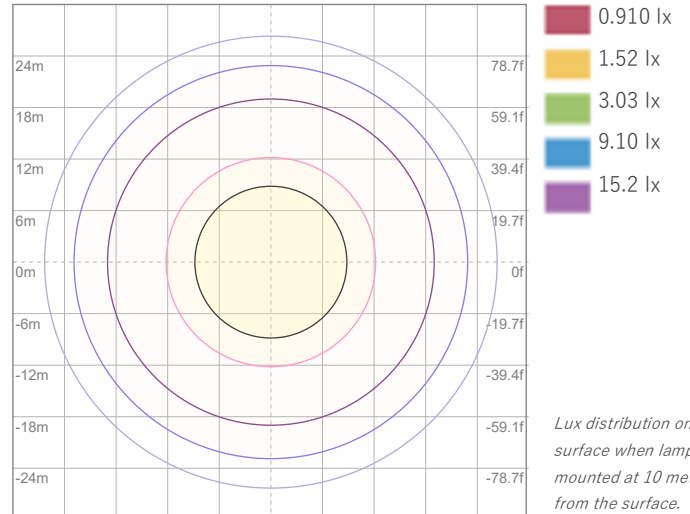


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 3034 cd



ISO LUX Diagram

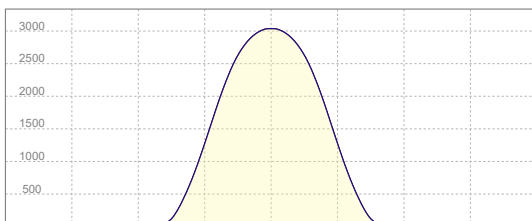
Conditions:

Number of c-planes: 8

LUX at center: 30.3 lx

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

Linear Distribution



Peak Candela
3034 cd

Calculate Center Beam Intensities

$$\text{lux} = 3034 / \text{distance(m)}^2$$

$$\text{fc} = 3034 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 8570 lm
Peak Intensity: 4959 cd

Beam

Beam Angle (50%): 82.5°
Field Angle (10%): 124.1°
Cutoff Angle (2.5%): 139.5°

Color

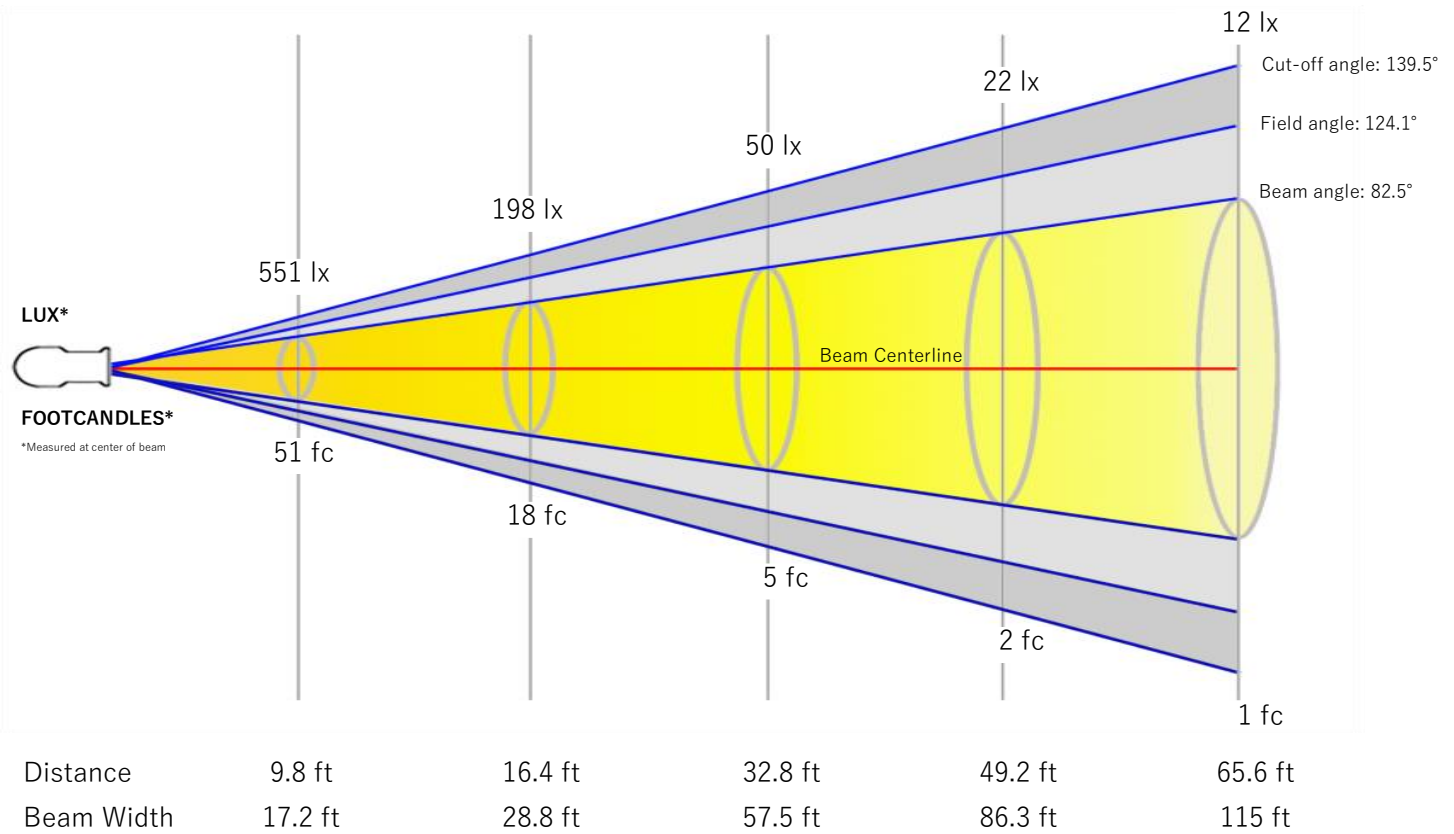
Color Temperature: 3223 K
CRI: 89.5
TLCI: 92
TM30 R_F: 92.0
TM30 R_g: 106.3

Power Details

Efficacy: 48 Lumen/Watt
Power: 179 W
Supply Voltage: 116 V
Current: 1.57 A

Beam Details

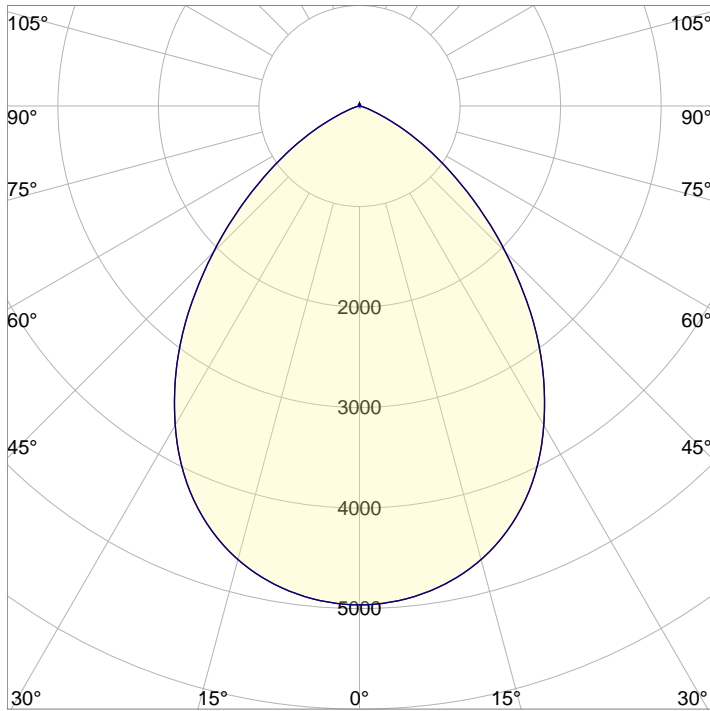
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.5 m	26.3 m	35.1 m



Beam Intensities from 1-20m

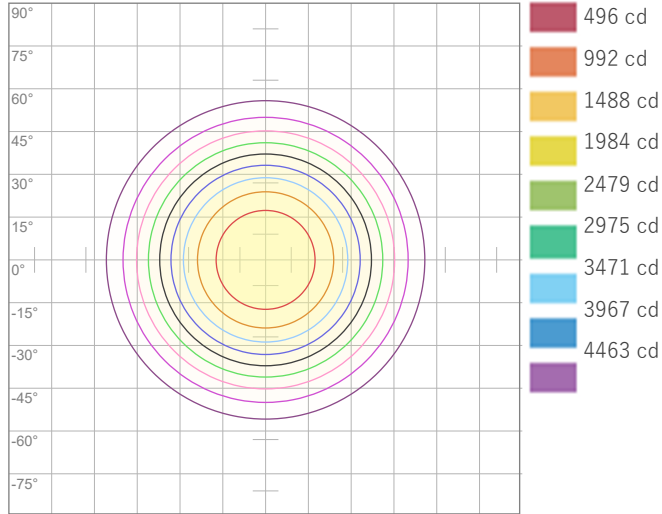
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	4959	1240	551	310	198	138	101	77	61	50	41	34	29	25	22	19	17	15	14	12
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	460.7	115.2	51.2	28.8	18.4	12.8	9.4	7.2	5.7	4.6	3.8	3.2	2.7	2.4	2	1.8	1.6	1.4	1.3	1.2

Angular Distribution



Beam Angle - 50%
82.5°
Field Angle - 10%
124.1°
Cutoff Angle - 2.5%
139.5°

ISO Diagrams

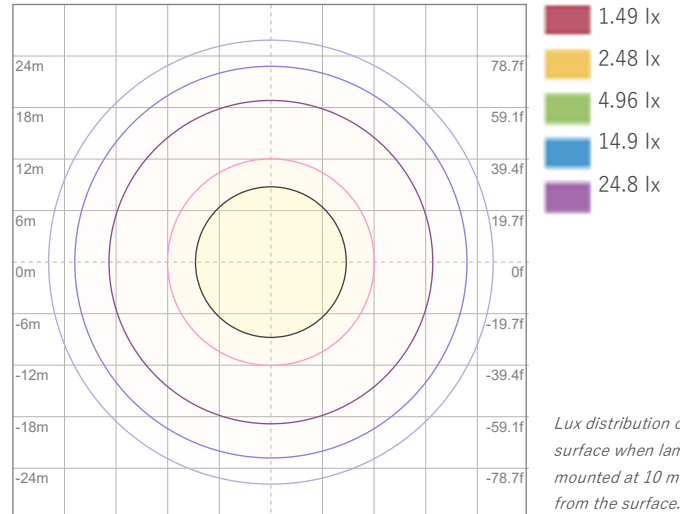


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 4959 cd



ISO LUX Diagram

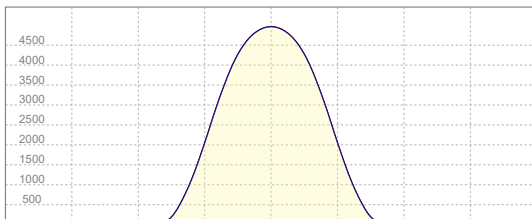
Conditions:

Number of c-planes: 4

LUX at center: 49.6 lx

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

Linear Distribution



Peak Candela
4959 cd

Calculate Center Beam Intensities

$$\text{lux} = 4959 / \text{distance(m)}^2$$

$$\text{fc} = 4959 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 9557 lm
Peak Intensity: 5490 cd

Beam

Beam Angle (50%): 83°
Field Angle (10%): 124.2°
Cutoff Angle (2.5%): 140°

Color

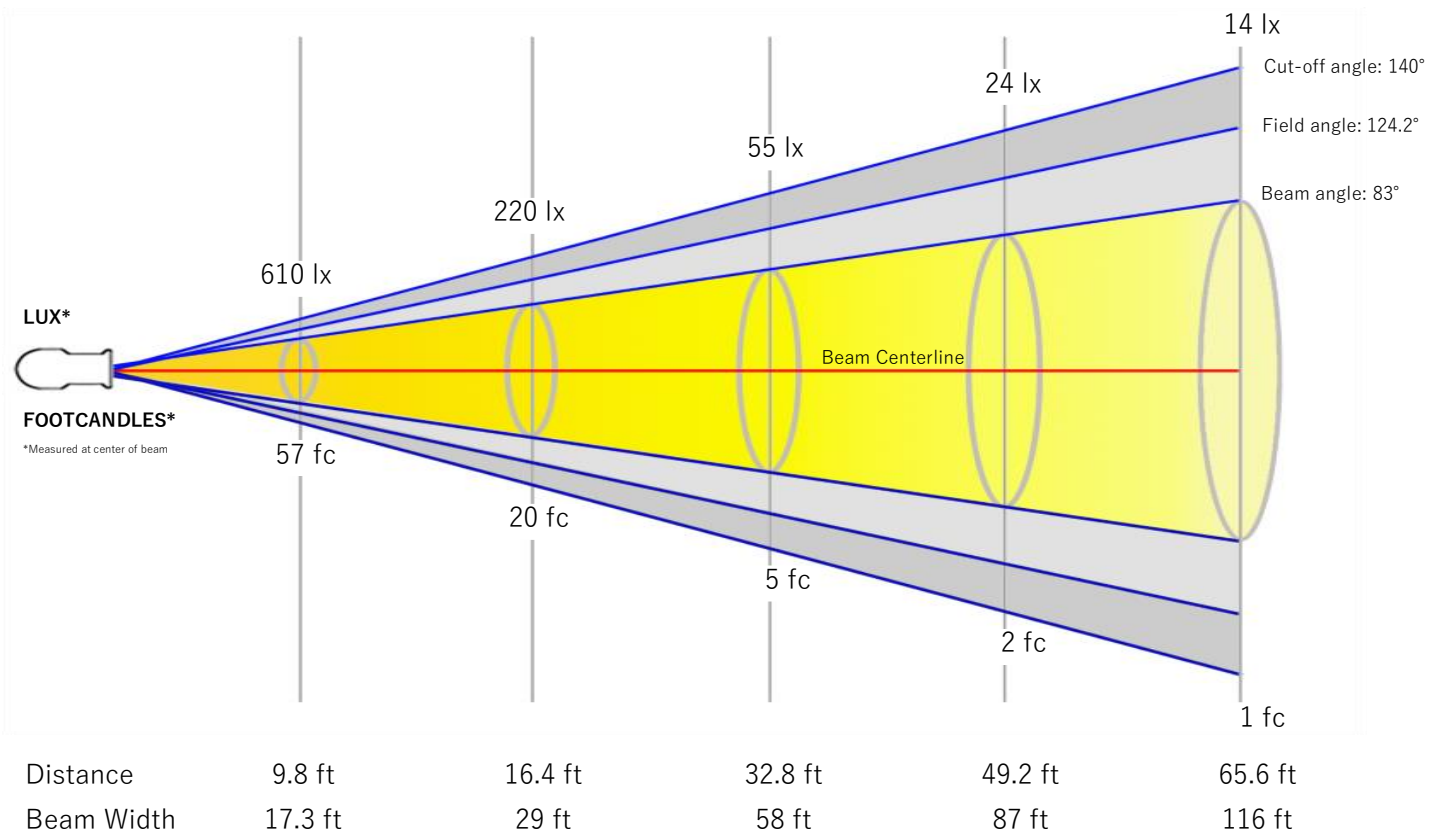
Color Temperature: 4158 K
CRI: 88.2
TLCI: 88
TM30 R_F: 90.3
TM30 R_g: 107.5

Power Details

Efficacy: 47 Lumen/Watt
Power: 202.9 W
Supply Voltage: 116 V
Current: 1.79 A

Beam Details

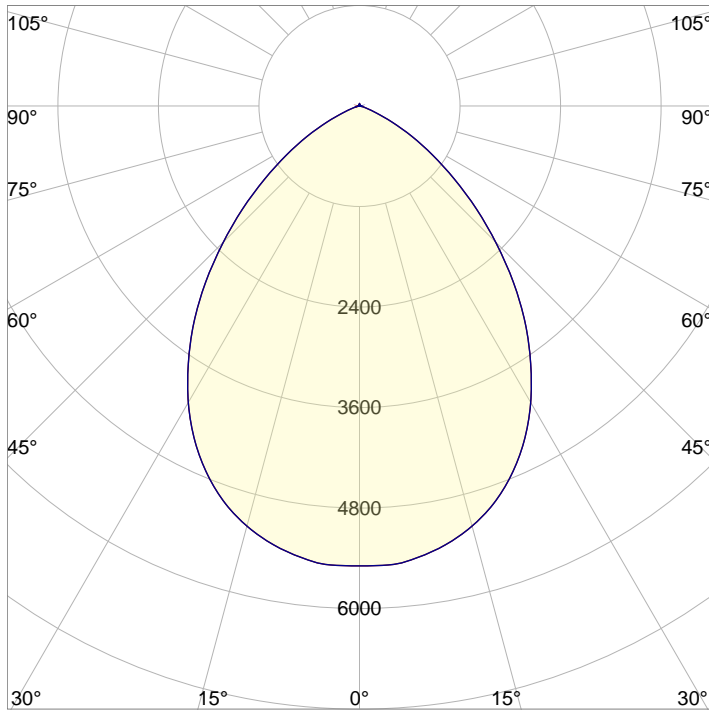
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.7 m	26.5 m	35.4 m



Beam Intensities from 1-20m

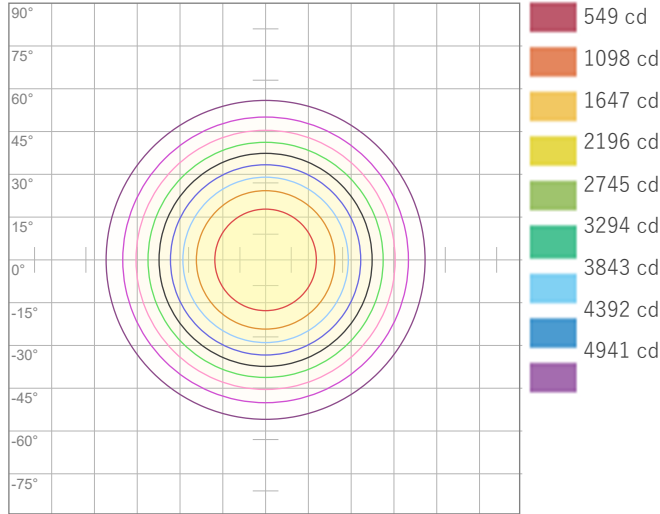
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	5490	1373	610	343	220	153	112	86	68	55	45	38	32	28	24	21	19	17	15	14
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	510	127.5	56.7	31.9	20.4	14.2	10.4	8	6.3	5.1	4.2	3.5	3	2.6	2.3	2	1.8	1.6	1.4	1.3

Angular Distribution



Beam Angle - 50%
83°
Field Angle - 10%
124.2°
Cutoff Angle - 2.5%
140°

ISO Diagrams

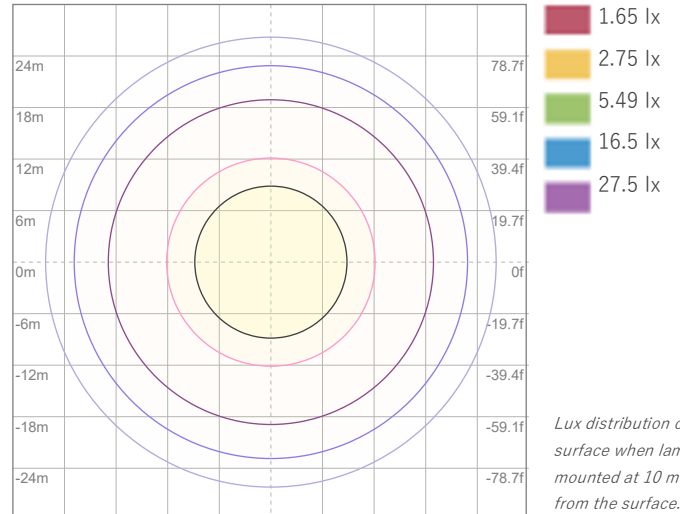


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 5490 cd



ISO LUX Diagram

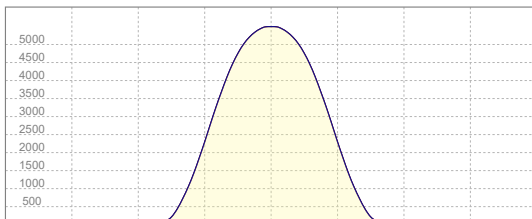
Conditions:

Number of c-planes: 4

LUX at center: 54.9 lx

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

Linear Distribution



Peak Candela
5490 cd

Calculate Center Beam Intensities

$$\text{lux} = 5490 / \text{distance(m)}^2$$

$$\text{fc} = 5490 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 9398 lm
Peak Intensity: 5427 cd

Beam

Beam Angle (50%): 82.7°
Field Angle (10%): 123.8°
Cutoff Angle (2.5%): 139.4°

Color

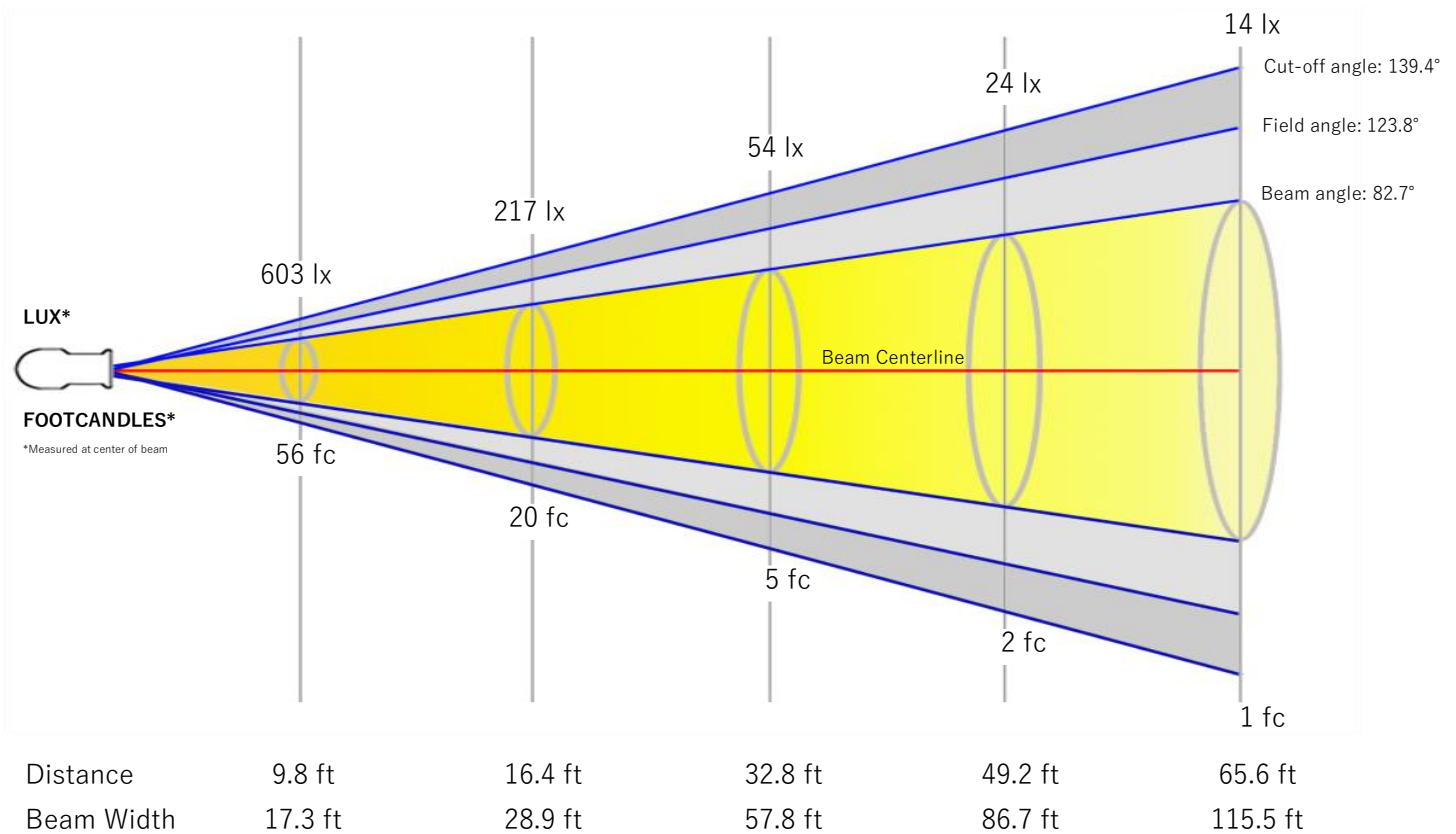
Color Temperature: 4541 K
CRI: 89.2
TLCI: 90
TM30 R_F: 90.0
TM30 R_g: 106.9

Power Details

Efficacy: 46 Lumen/Watt
Power: 203.8 W
Supply Voltage: 116 V
Current: 1.79 A

Beam Details

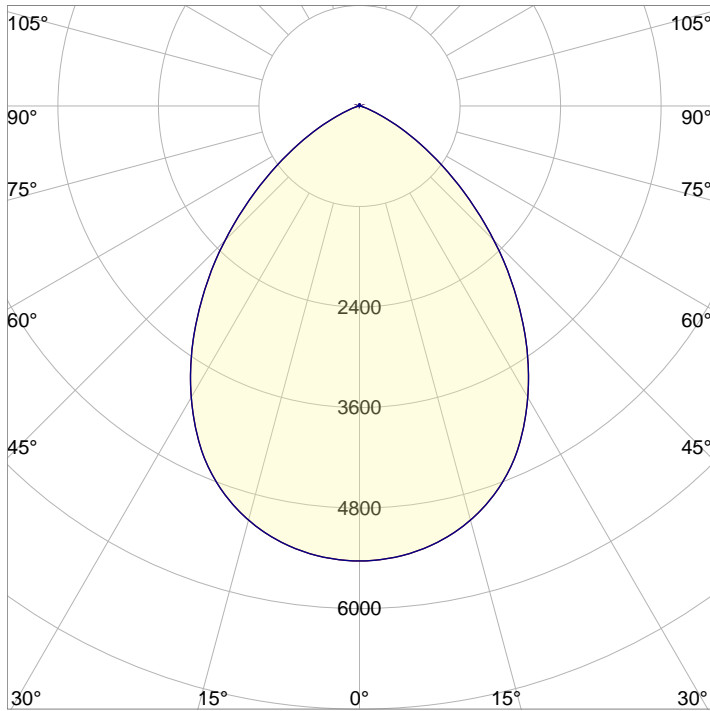
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6 m	26.4 m	35.2 m



Beam Intensities from 1-20m

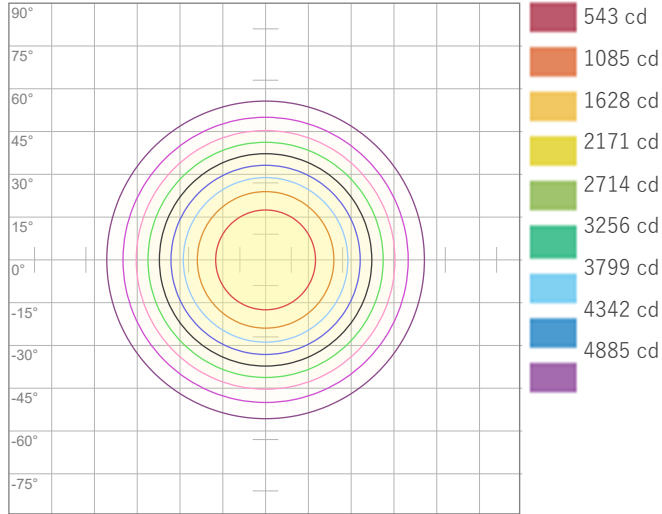
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	5427	1357	603	339	217	151	111	85	67	54	45	38	32	28	24	21	19	17	15	14
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	504.2	126.1	56	31.5	20.2	14	10.3	7.9	6.2	5	4.2	3.5	3	2.6	2.2	2	1.7	1.6	1.4	1.3

Angular Distribution



Beam Angle - 50%
82.7°
Field Angle - 10%
123.8°
Cutoff Angle - 2.5%
139.4°

ISO Diagrams

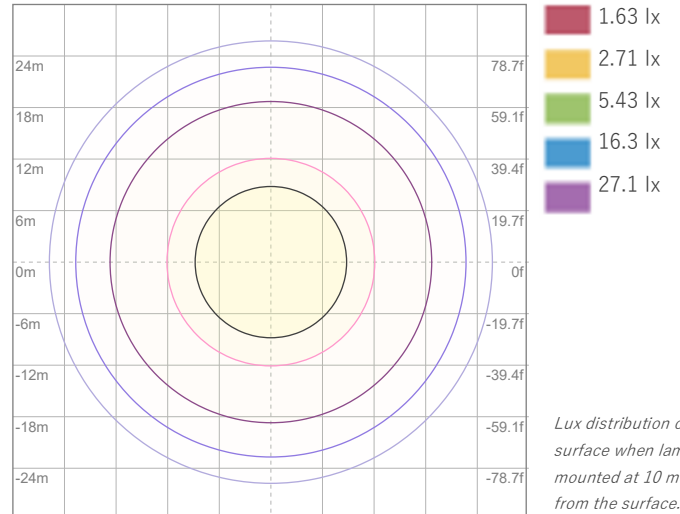


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 5427 cd



ISO LUX Diagram

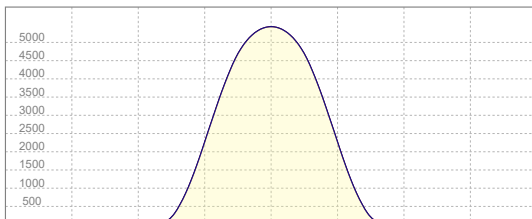
Conditions:

Number of c-planes: 4

LUX at center: 54.3 lx

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

Linear Distribution



Peak Candela
5427 cd

Calculate Center Beam Intensities

$$\text{lux} = 5427 / \text{distance(m)}^2$$

$$\text{fc} = 5427 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 9345 lm
Peak Intensity: 5394 cd

Beam

Beam Angle (50%): 82.7°
Field Angle (10%): 123.9°
Cutoff Angle (2.5%): 139.8°

Color

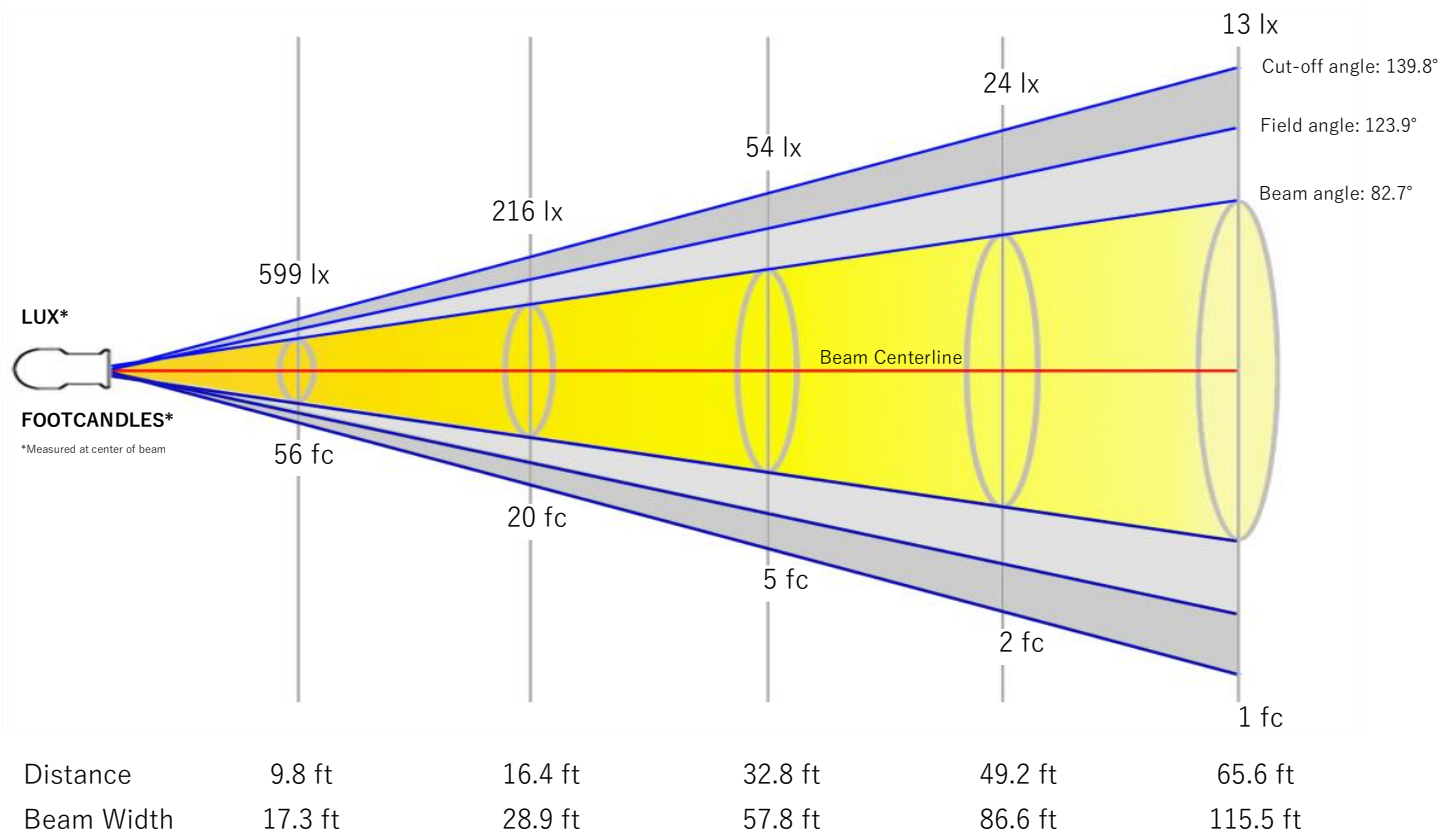
Color Temperature: 5061 K
CRI: 89.4
TLCI: 90
TM30 R_F: 89.2
TM30 R_g: 106.3

Power Details

Efficacy: 46 Lumen/Watt
Power: 204.4 W
Supply Voltage: 116 V
Current: 1.80 A

Beam Details

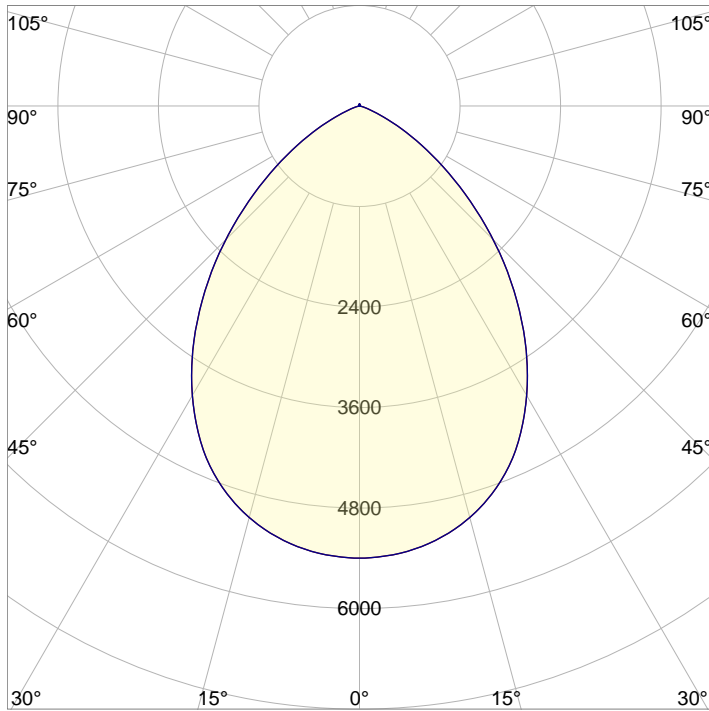
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6 m	26.4 m	35.2 m



Beam Intensities from 1-20m

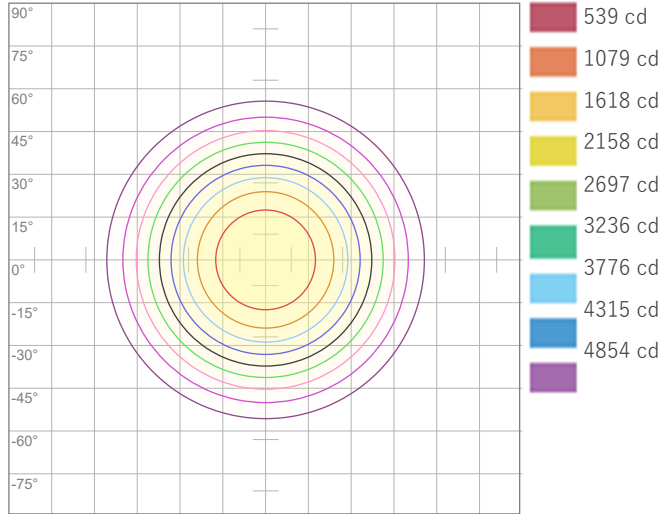
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	5394	1348	599	337	216	150	110	84	67	54	45	37	32	28	24	21	19	17	15	13
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	501.1	125.3	55.7	31.3	20	13.9	10.2	7.8	6.2	5	4.1	3.5	3	2.6	2.2	2	1.7	1.5	1.4	1.3

Angular Distribution



Beam Angle - 50%
82.7°
Field Angle - 10%
123.9°
Cutoff Angle - 2.5%
139.8°

ISO Diagrams

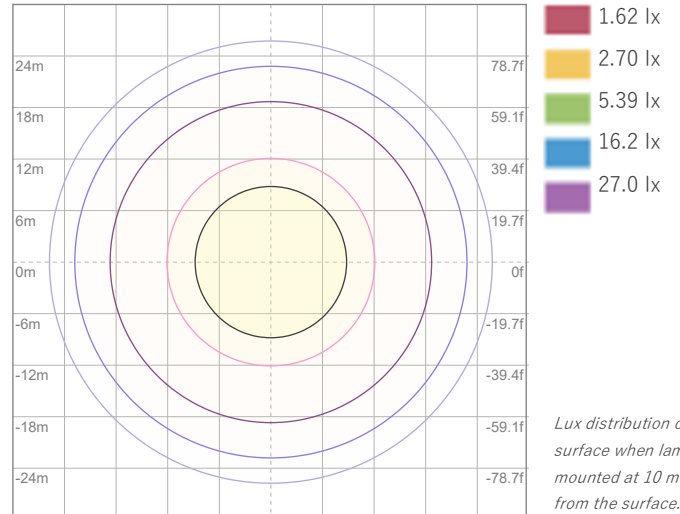


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 5394 cd



ISO LUX Diagram

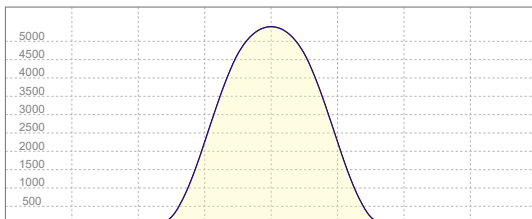
Conditions:

Number of c-planes: 4

LUX at center: 53.9 lx

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

Linear Distribution



Peak Candela
5394 cd

Calculate Center Beam Intensities

$$\text{lux} = 5394 / \text{distance(m)}^2$$

$$\text{fc} = 5394 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 9130 lm
Peak Intensity: 5276 cd

Beam

Beam Angle (50%): 82.6°
Field Angle (10%): 124°
Cutoff Angle (2.5%): 138.9°

Color

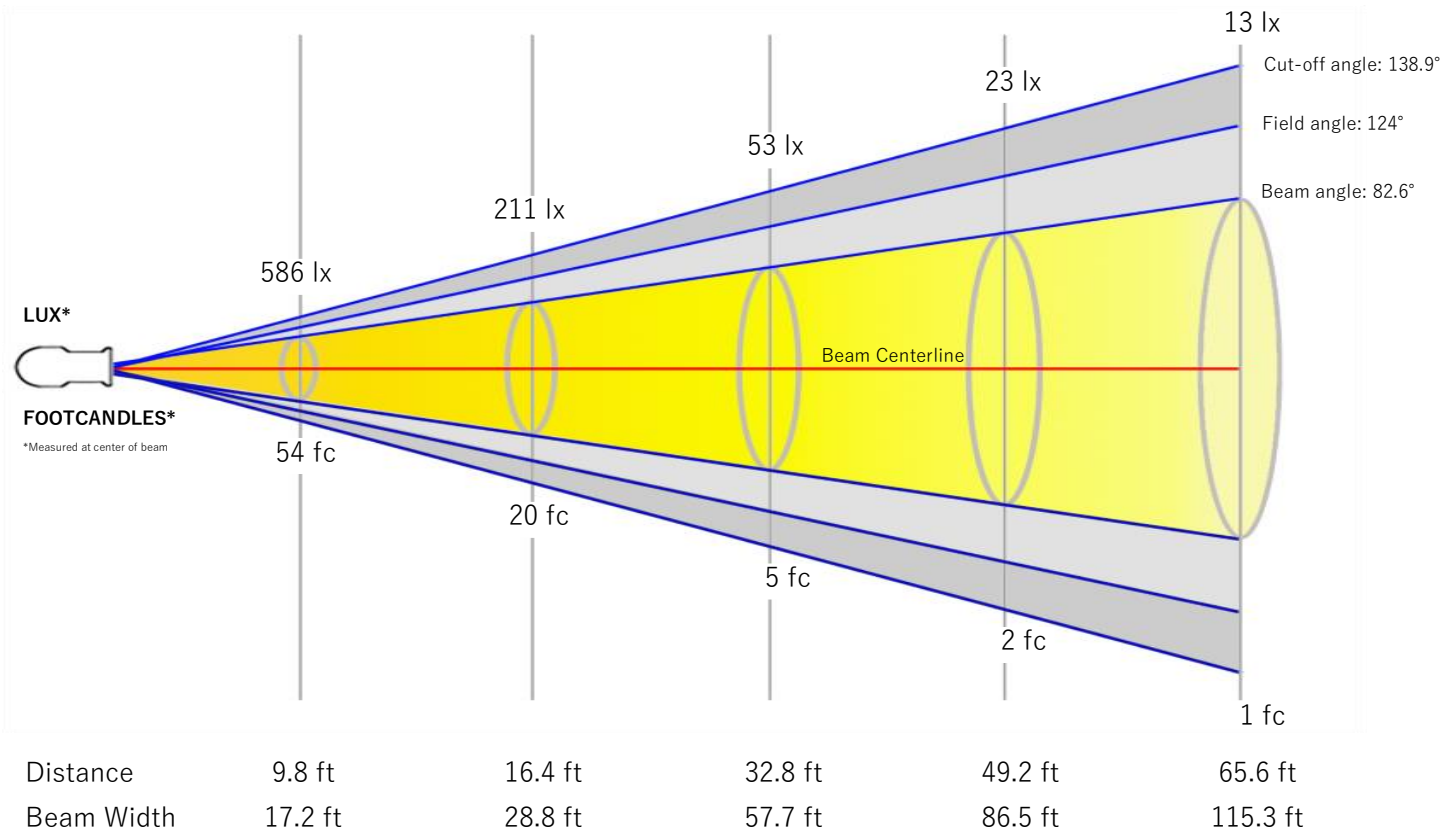
Color Temperature: 5662 K
CRI: 89.3
TLCI: 91
TM30 R_F: 88.9
TM30 R_g: 105.4

Power Details

Efficacy: 45 Lumen/Watt
Power: 203.1 W
Supply Voltage: 116 V
Current: 1.79 A

Beam Details

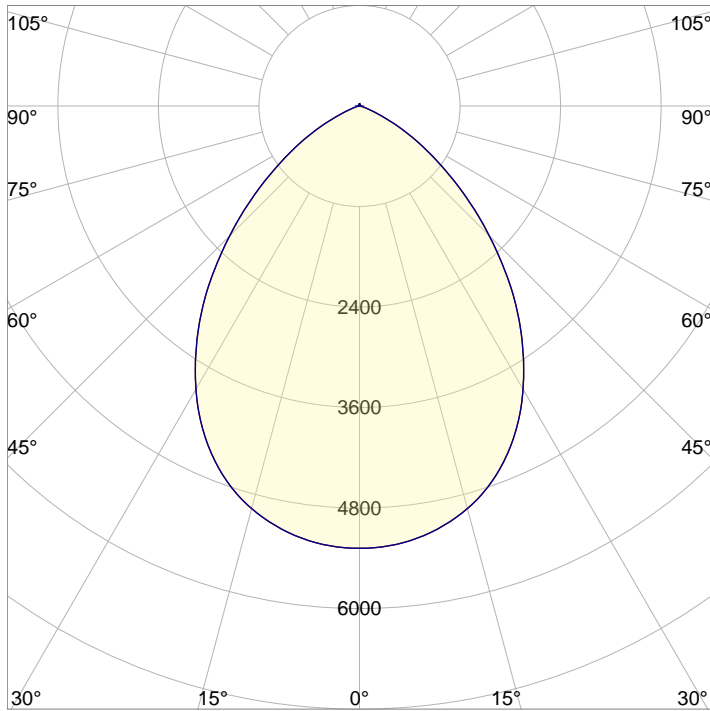
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6 m	26.4 m	35.2 m



Beam Intensities from 1-20m

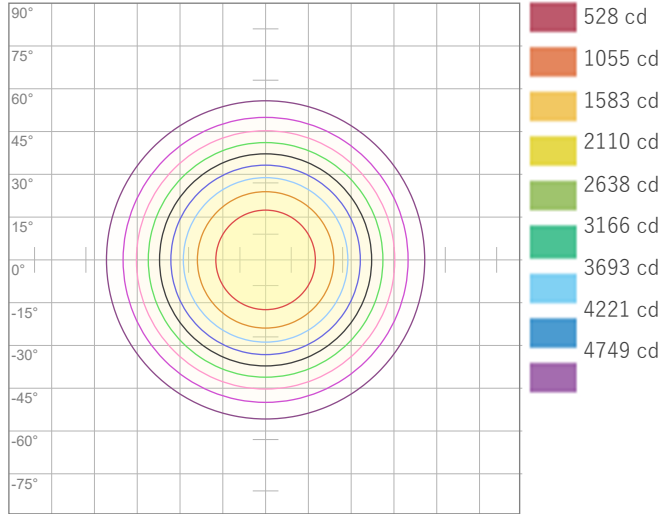
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	5276	1319	586	330	211	147	108	82	65	53	44	37	31	27	23	21	18	16	15	13
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	490.2	122.5	54.5	30.6	19.6	13.6	10	7.7	6.1	4.9	4.1	3.4	2.9	2.5	2.2	1.9	1.7	1.5	1.4	1.2

Angular Distribution



Beam Angle - 50%
82.6°
Field Angle - 10%
124°
Cutoff Angle - 2.5%
138.9°

ISO Diagrams

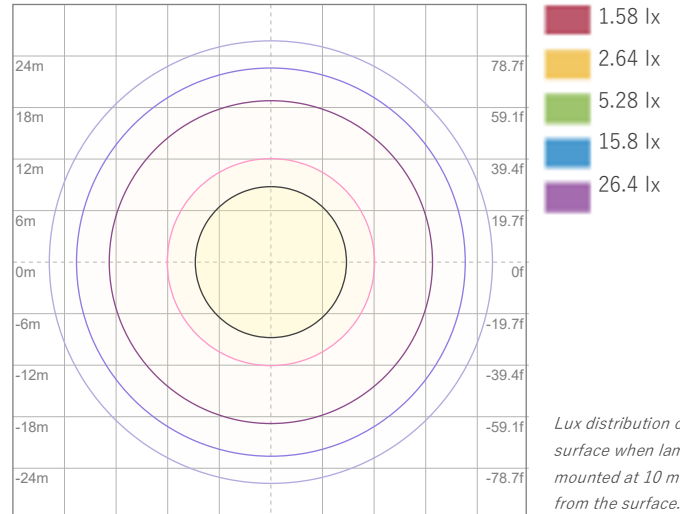


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 5276 cd



ISO LUX Diagram

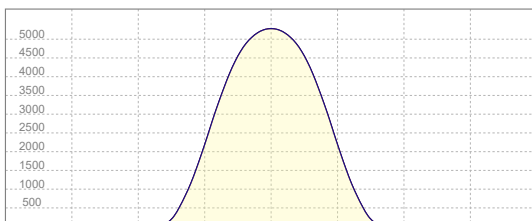
Conditions:

Number of c-planes: 4

LUX at center: 52.8 lx

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

Linear Distribution



Peak Candela
5276 cd

Calculate Center Beam Intensities

$$\text{lux} = 5276 / \text{distance(m)}^2$$

$$\text{fc} = 5276 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 8790 lm
Peak Intensity: 5127 cd

Beam

Beam Angle (50%): 82.7°
Field Angle (10%): 123.9°
Cutoff Angle (2.5%): 139.6°

Color

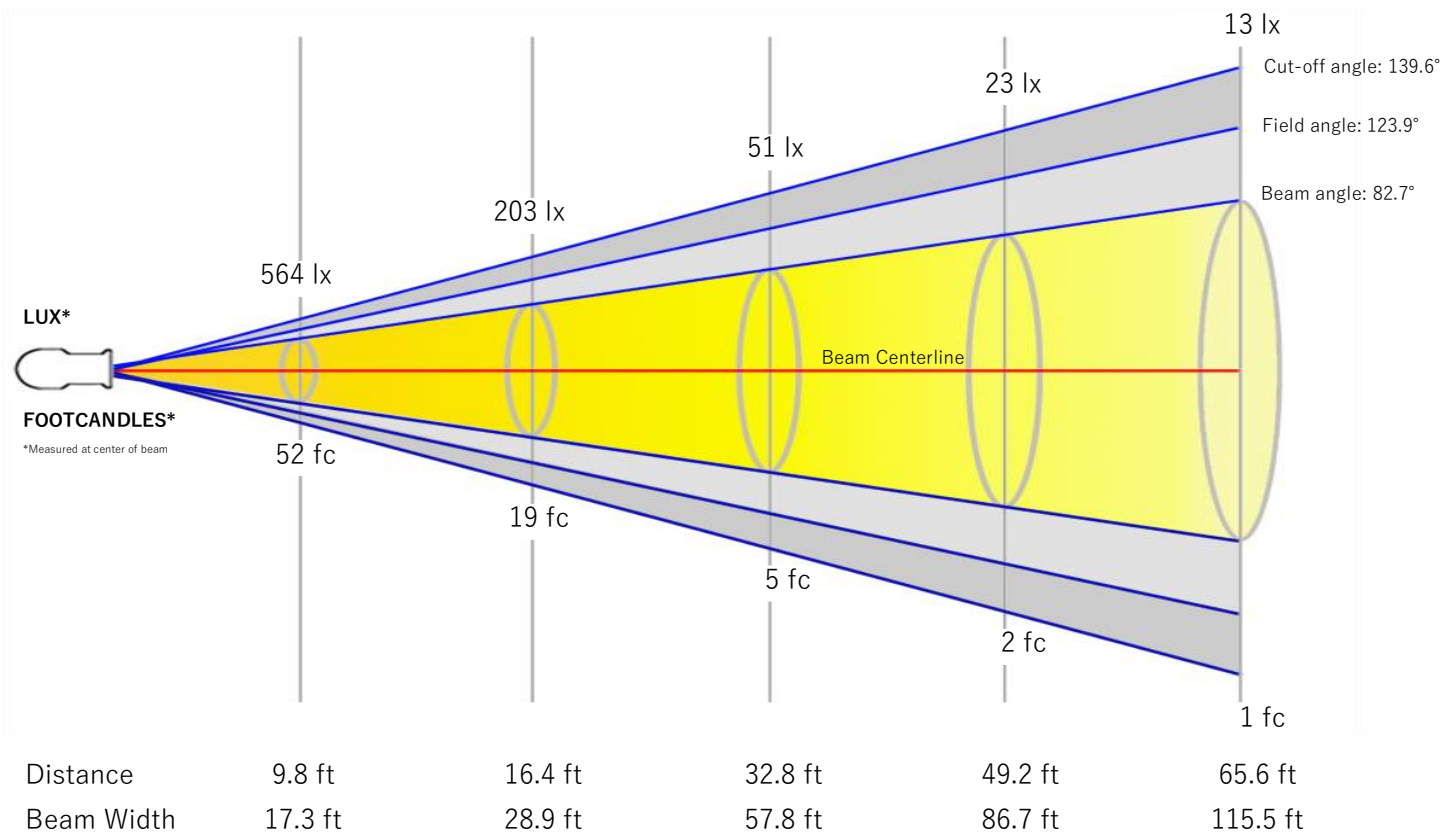
Color Temperature: 6118 K
CRI: 89.3
TLCI: 91
TM30 R_F: 89.0
TM30 R_g: 105.9

Power Details

Efficacy: 44 Lumen/Watt
Power: 201.4 W
Supply Voltage: 116 V
Current: 1.77 A

Beam Details

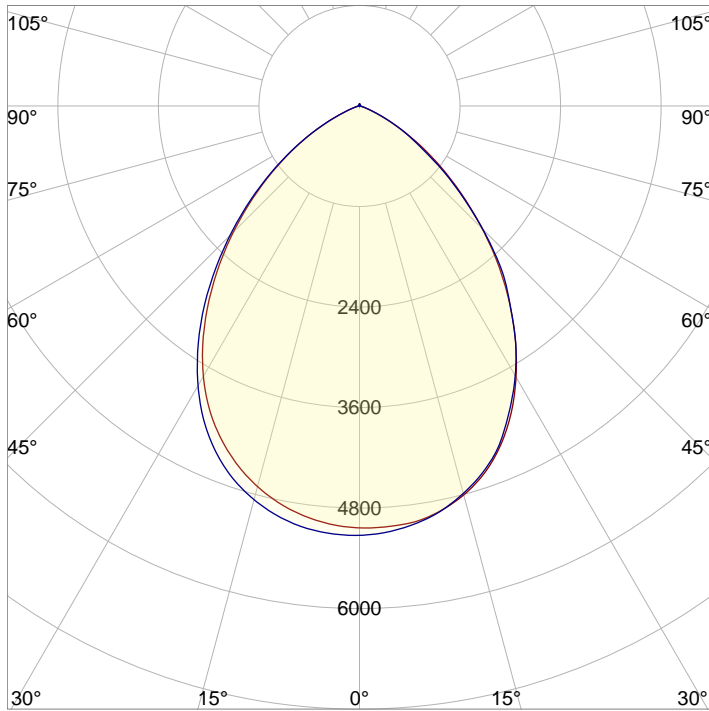
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6 m	26.4 m	35.2 m



Beam Intensities from 1-20m

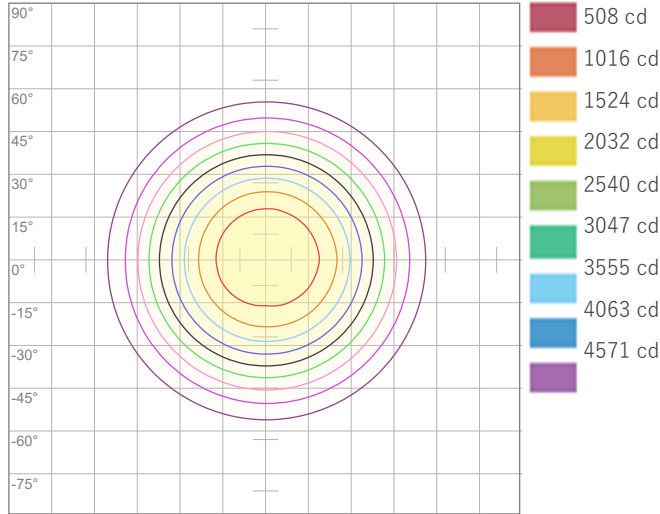
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	5079	1270	564	317	203	141	104	79	63	51	42	35	30	26	23	20	18	16	14	13
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	471.9	118	52.4	29.5	18.9	13.1	9.6	7.4	5.8	4.7	3.9	3.3	2.8	2.4	2.1	1.8	1.6	1.5	1.3	1.2

Angular Distribution



Beam Angle - 50%
82.7°
Field Angle - 10%
123.9°
Cutoff Angle - 2.5%
139.6°

ISO Diagrams

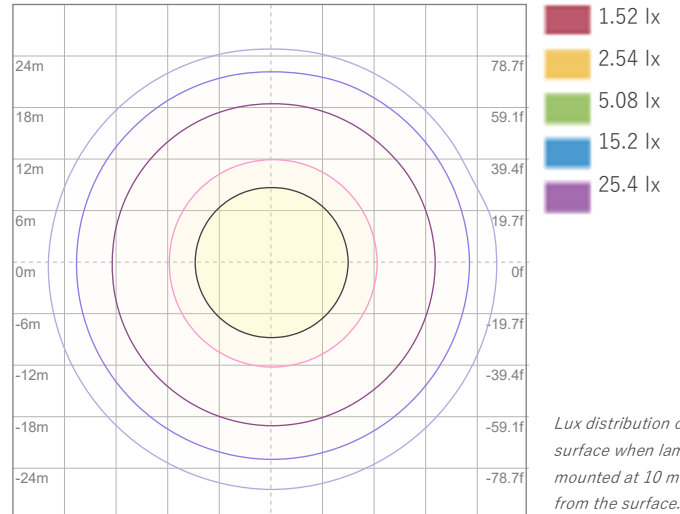


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 5079 cd



ISO LUX Diagram

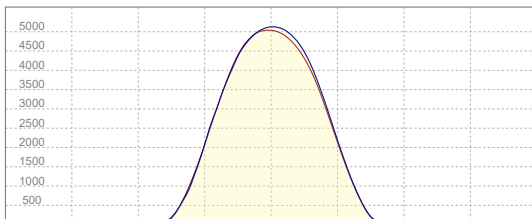
Conditions:

Number of c-planes: 4

LUX at center: 50.8 lx

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

Linear Distribution



Peak Candela
5127 cd

Calculate Center Beam Intensities

$$\text{lux} = 5127 / \text{distance(m)}^2$$

$$\text{fc} = 5127 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 8181 lm
Peak Intensity: 4723 cd

Beam

Beam Angle (50%): 82.7°
Field Angle (10%): 123.9°
Cutoff Angle (2.5%): 139.8°

Color

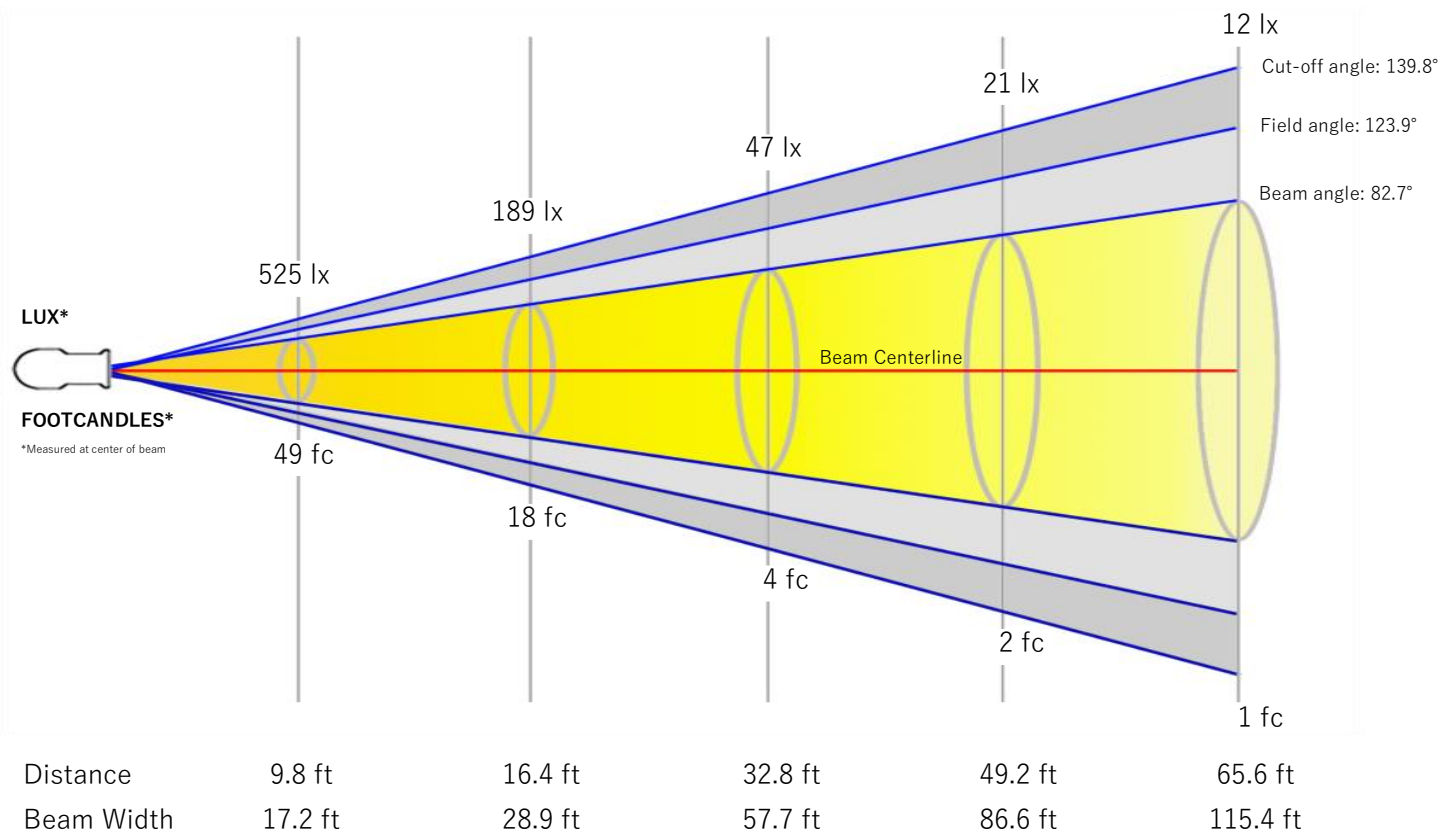
Color Temperature: 6638 K
CRI: 89.1
TLCI: 91
TM30 R_F: 88.7
TM30 R_g: 105.5

Power Details

Efficacy: 43 Lumen/Watt
Power: 188.6 W
Supply Voltage: 116 V
Current: 1.66 A

Beam Details

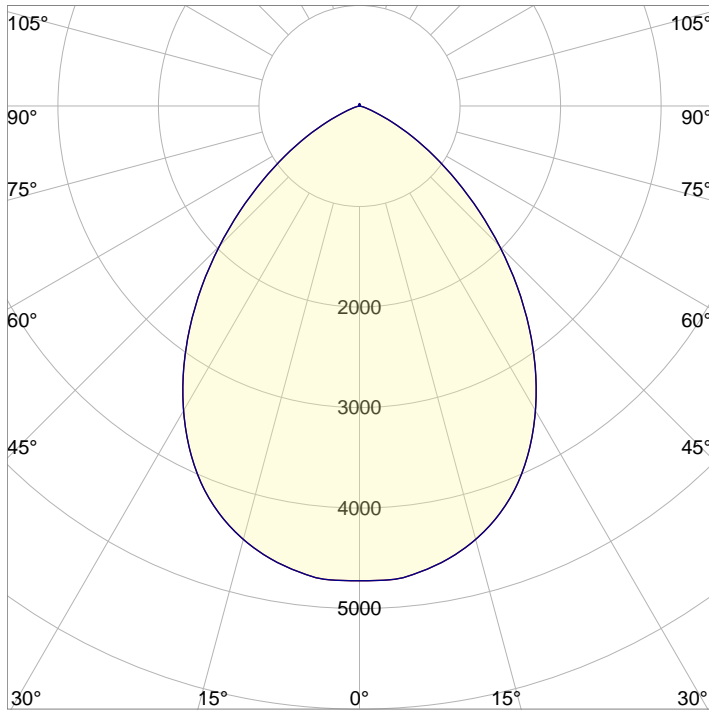
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6 m	26.4 m	35.2 m



Beam Intensities from 1-20m

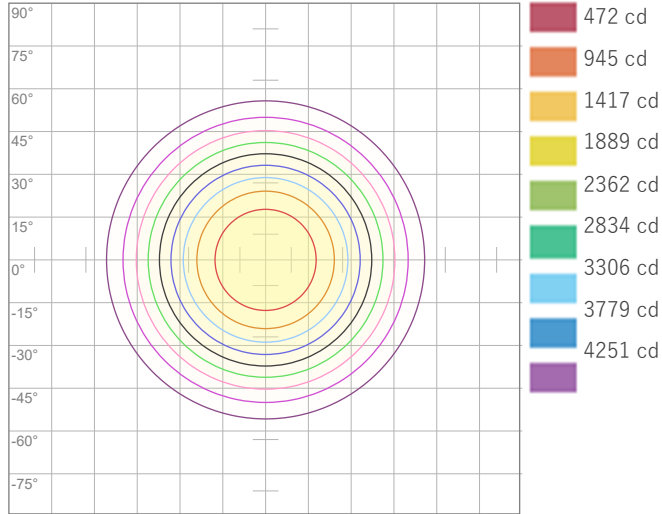
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	4723	1181	525	295	189	131	96	74	58	47	39	33	28	24	21	18	16	15	13	12
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	438.8	109.7	48.8	27.4	17.6	12.2	9	6.9	5.4	4.4	3.6	3	2.6	2.2	2	1.7	1.5	1.4	1.2	1.1

Angular Distribution



Beam Angle - 50%
82.7°
Field Angle - 10%
123.9°
Cutoff Angle - 2.5%
139.8°

ISO Diagrams

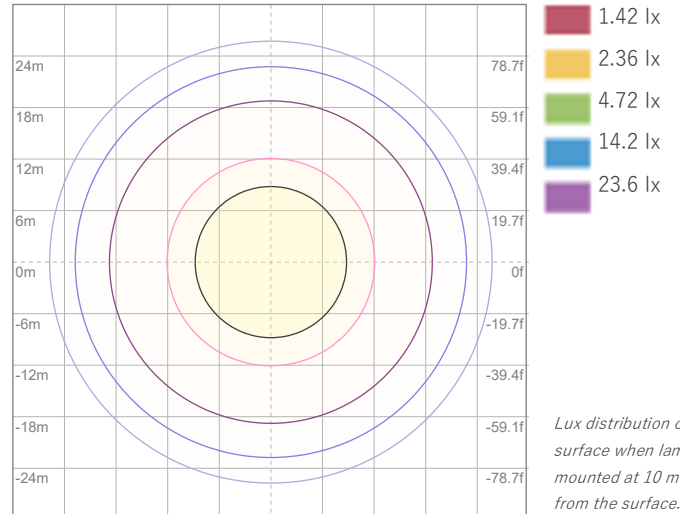


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 4723 cd



ISO LUX Diagram

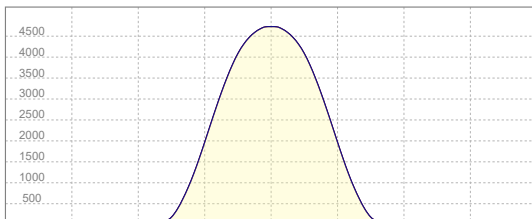
Conditions:

Number of c-planes: 4

LUX at center: 47.2 lx

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

Linear Distribution



Peak Candela
4723 cd

Calculate Center Beam Intensities

$$\text{lux} = 4723 / \text{distance(m)}^2$$

$$\text{fc} = 4723 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 9002 lm
Peak Intensity: 5204 cd

Beam

Beam Angle (50%): 82.6°
Field Angle (10%): 123.9°
Cutoff Angle (2.5%): 139.7°

Color

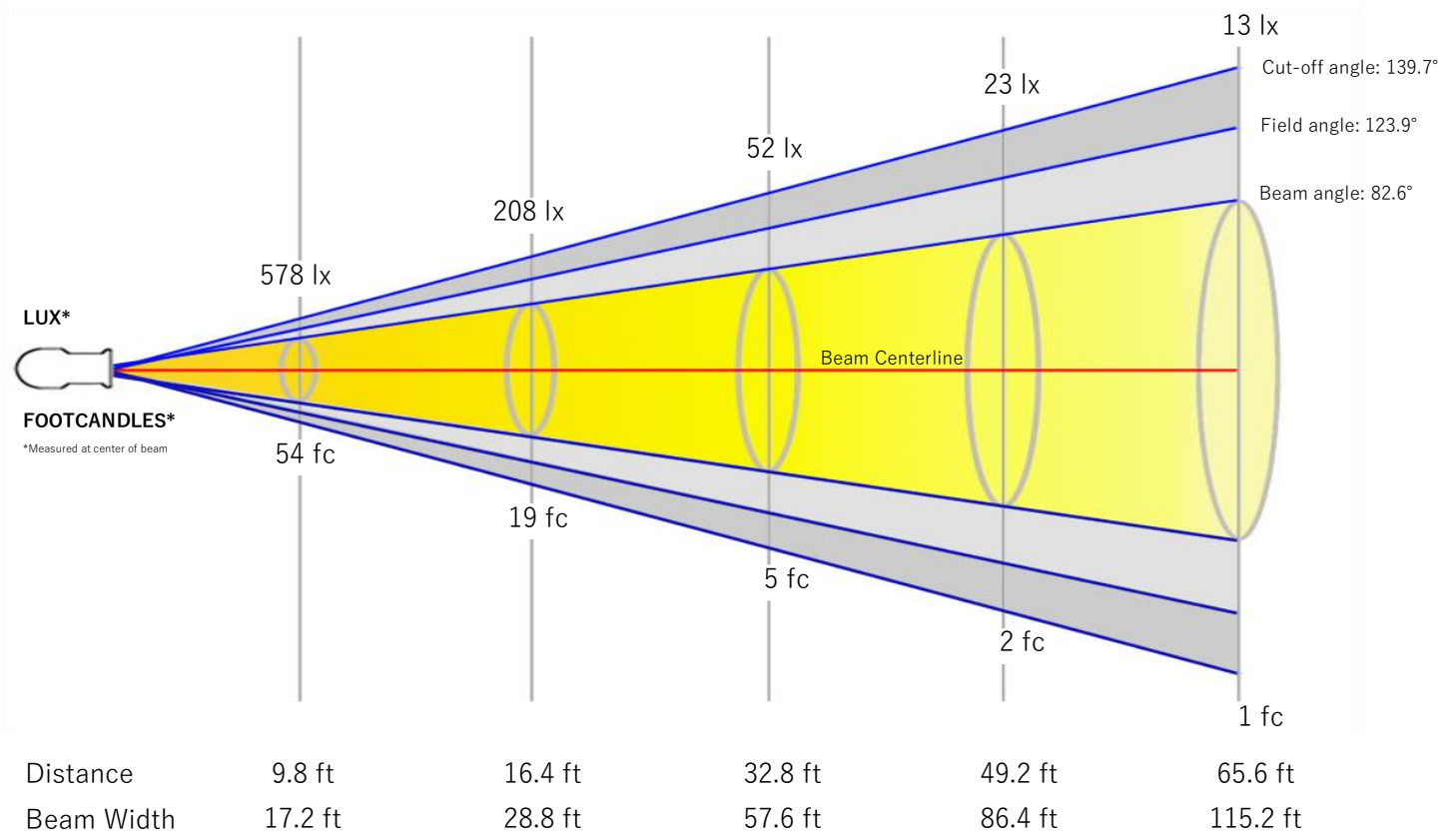
Color Temperature: 7052 K
CRI: 76.4
TLCI: 81
TM30 R_F: 81.1
TM30 R_g: 115.2

Power Details

Efficacy: 41 Lumen/Watt
Power: 220.6 W
Supply Voltage: 115 V
Current: 1.94 A

Beam Details

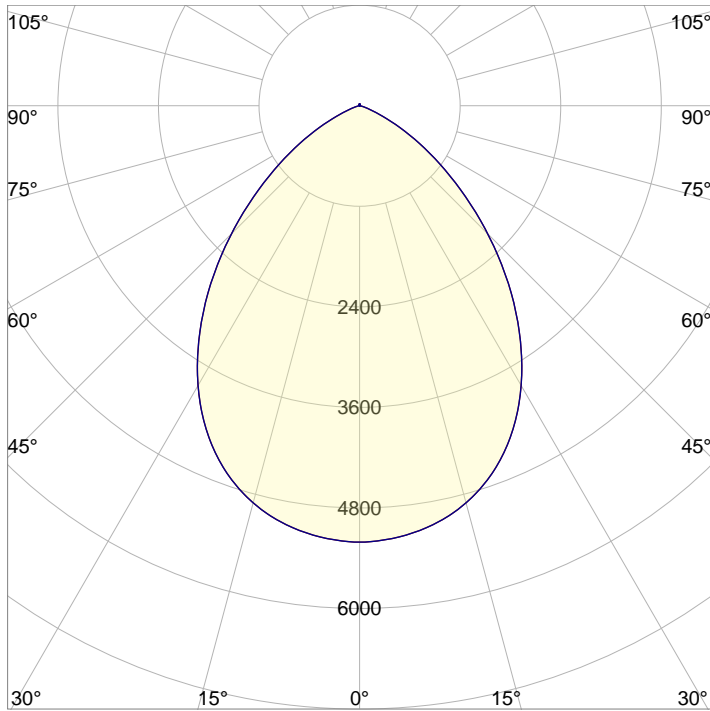
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6 m	26.3 m	35.1 m



Beam Intensities from 1-20m

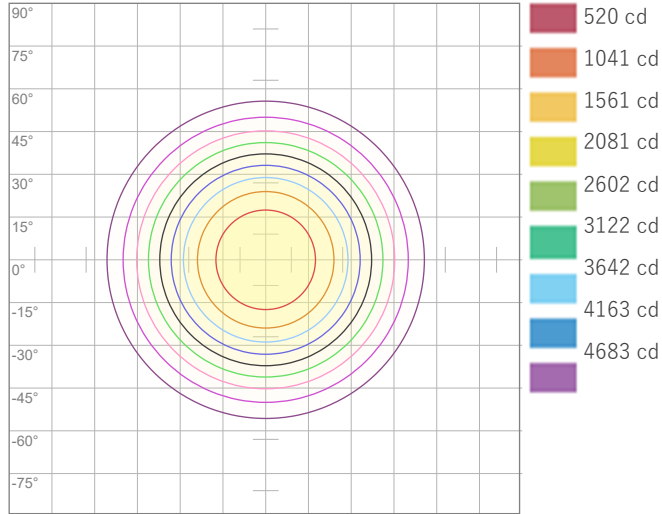
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	5204	1301	578	325	208	145	106	81	64	52	43	36	31	27	23	20	18	16	14	13
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	483.4	120.9	53.7	30.2	19.3	13.4	9.9	7.6	6	4.8	4	3.4	2.9	2.5	2.1	1.9	1.7	1.5	1.3	1.2

Angular Distribution



Beam Angle - 50%
82.6°
Field Angle - 10%
123.9°
Cutoff Angle - 2.5%
139.7°

ISO Diagrams

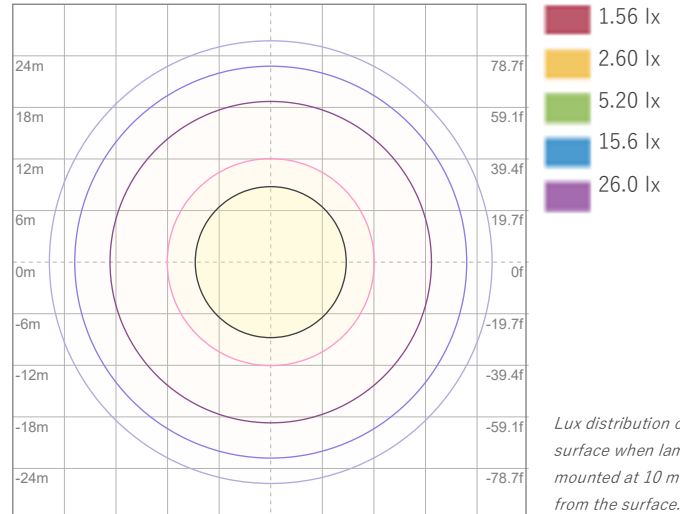


ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 5204 cd



ISO LUX Diagram

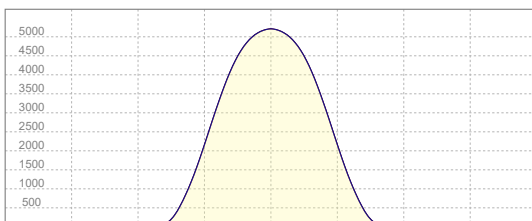
Conditions:

Number of c-planes: 4

LUX at center: 52.0 lx

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

Linear Distribution



Peak Candela
5204 cd

Calculate Center Beam Intensities

$$\text{lux} = 5204 / \text{distance(m)}^2$$

$$\text{fc} = 5204 / \text{distance(ft)}^2$$

Key Measurements

Output

Total Lumen Output: 3681 lm
Peak Intensity: 2112 cd

Beam

Beam Angle (50%): 82.6°
Field Angle (10%): 124.6°
Cutoff Angle (2.5%): 140.6°

Color

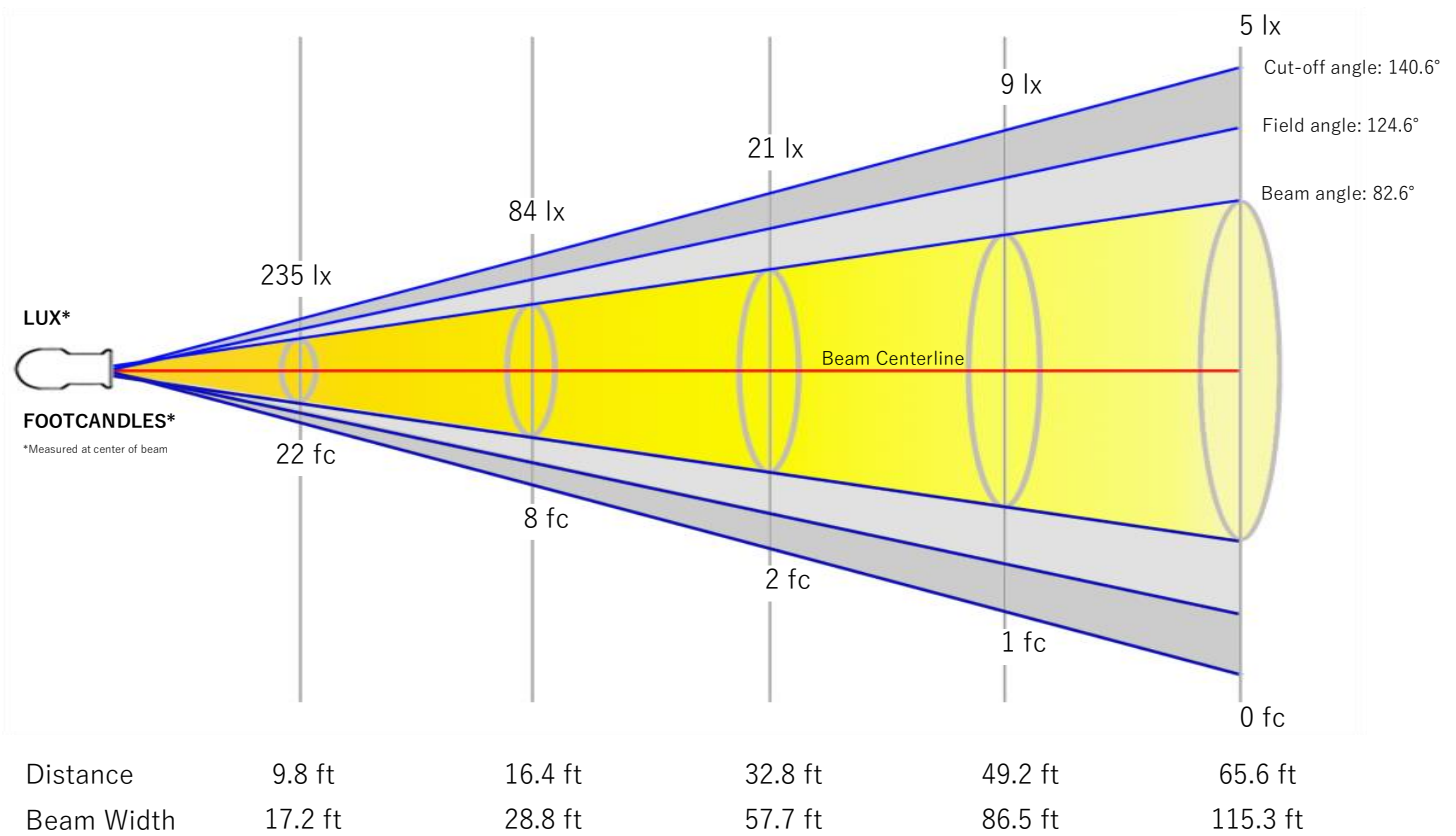
Color Temperature: 4449 K
CRI: 81.1
TLCI: 67
TM30 R_F: 82.3
TM30 R_g: 93.8

Power Details

Efficacy: n/a Lumen/Watt
Power: 0.00 W
Supply Voltage: 118 V
Current: 0.000 A

Beam Details

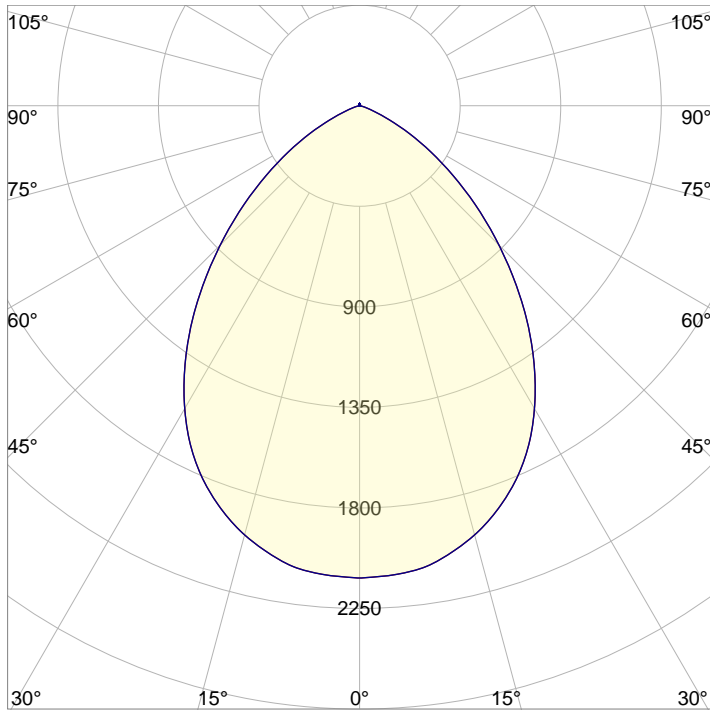
Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.3 m	8.8 m	17.6 m	26.4 m	35.2 m



Beam Intensities from 1-20m

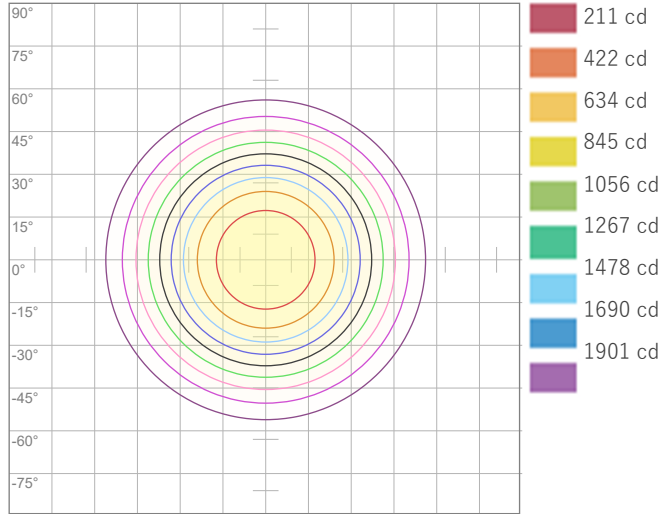
M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	2112	528	235	132	84	59	43	33	26	21	17	15	12	11	9	8	7	7	6	5
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	196.2	49.1	21.8	12.3	7.8	5.5	4	3.1	2.4	2	1.6	1.4	1.2	1	0.9	0.8	0.7	0.6	0.5	0.5

Angular Distribution



Beam Angle - 50%
82.6°
Field Angle - 10%
124.6°
Cutoff Angle - 2.5%
140.6°

ISO Diagrams

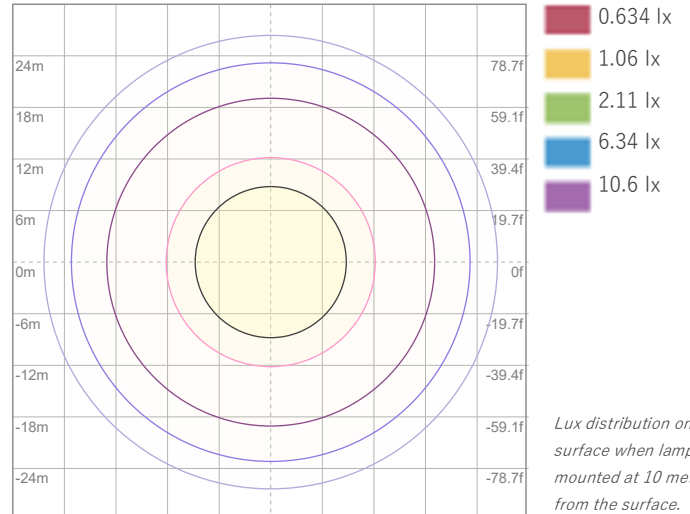


ISO Candela Diagram

Conditions:

Number of c-planes: 8

Candela at center: 2112 cd



ISO LUX Diagram

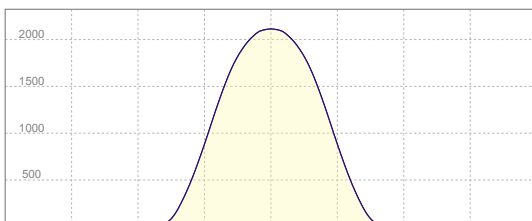
Conditions:

Number of c-planes: 8

LUX at center: 21.1 lx

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

Linear Distribution



Peak Candela
2112 cd

Calculate Center Beam Intensities

$$\text{lux} = 2112 / \text{distance(m)}^2$$

$$\text{fc} = 2112 / \text{distance(ft)}^2$$