SIX+ BAR S Optional Lenses

Photometric &

Chromaticity Test Reports

CONTENTS

Testing Process

Total Lumen Measurements

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

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

Test Lab Equipment and Process

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

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

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

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

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

Six+ Bar S (20°, Full Output, No UV)

ELATION — **VISO SYSTEMS** — Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 3763 lm

Peak Intensity: 18729 cd

Beam
Beam Angle (50%): 23°

Field Angle (10%): 43°

Cutoff Angle (2.5%): 60.1°

Color
Color Temperature: 6826 K

CRI: 68.7

TLCI: 77

TM30 R_F: 78.8

TM30 R_g: 120.1

Power Details
Efficacy: 42 Lumen/Watt

Power: 88.8 W

Supply Voltage: 119 V

Current: 0.749 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	8.1 m

LUX*

FOOTCANDLES*

*Measured at center of beam

Beam Centerline

2080 lx — 749 lx — 187 lx — 83 lx — 47 lx

193 fc — 70 fc — 17 fc — 8 fc — 4 fc

Cut-off angle: 60.1°

Field angle: 43°

Beam angle: 23°

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.3 ft	20 ft	26.7 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	18724	4681	2080	1170	749	520	382	293	231	187	155	130	111	96	83	73	65	58	52	47
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	1739.5	434.9	193.3	108.7	69.6	48.3	35.5	27.2	21.5	17.4	14.4	12.1	10.3	8.9	7.7	6.8	6	5.4	4.8	4.3

Measurement Date: 8/19/2024

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution

Beam Angle - 50%		
23°		
Field Angle - 10%		
43°		
Cutoff Angle - 2.5%		
60.1°		

ISO Diagrams

■	1872 cd
■	3745 cd
■	5617 cd
■	7490 cd
■	9362 cd
■	11234 cd
■	13107 cd
■	14979 cd
■	16852 cd
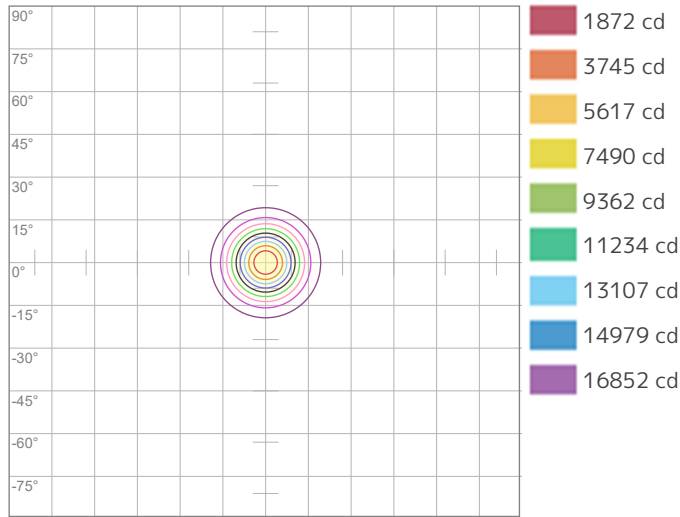
ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 18724 cd

■	5.62 lx
■	9.36 lx
■	18.7 lx
■	56.2 lx
■	93.6 lx
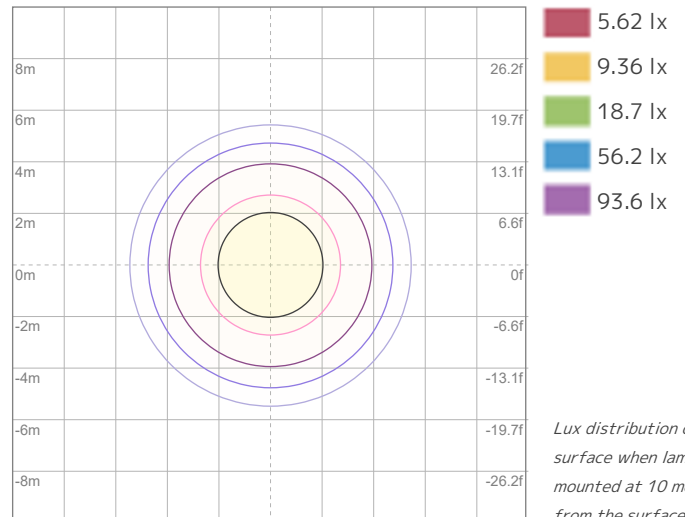
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 187 lx

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

Linear Distribution
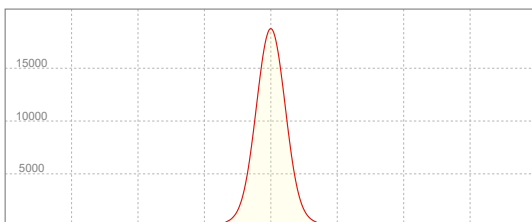
Peak Candela

18729 cd

Calculate Center Beam Intensities

$$lux = 18729 / distance(m)^2$$

$$fc = 18729 / distance(ft)^2$$

Measurement Date: 8/19/2024

Key Measurements

Output

Total Lumen Output: 3598 lm

Peak Intensity: 17873 cd

Beam

Beam Angle (50%): 23°

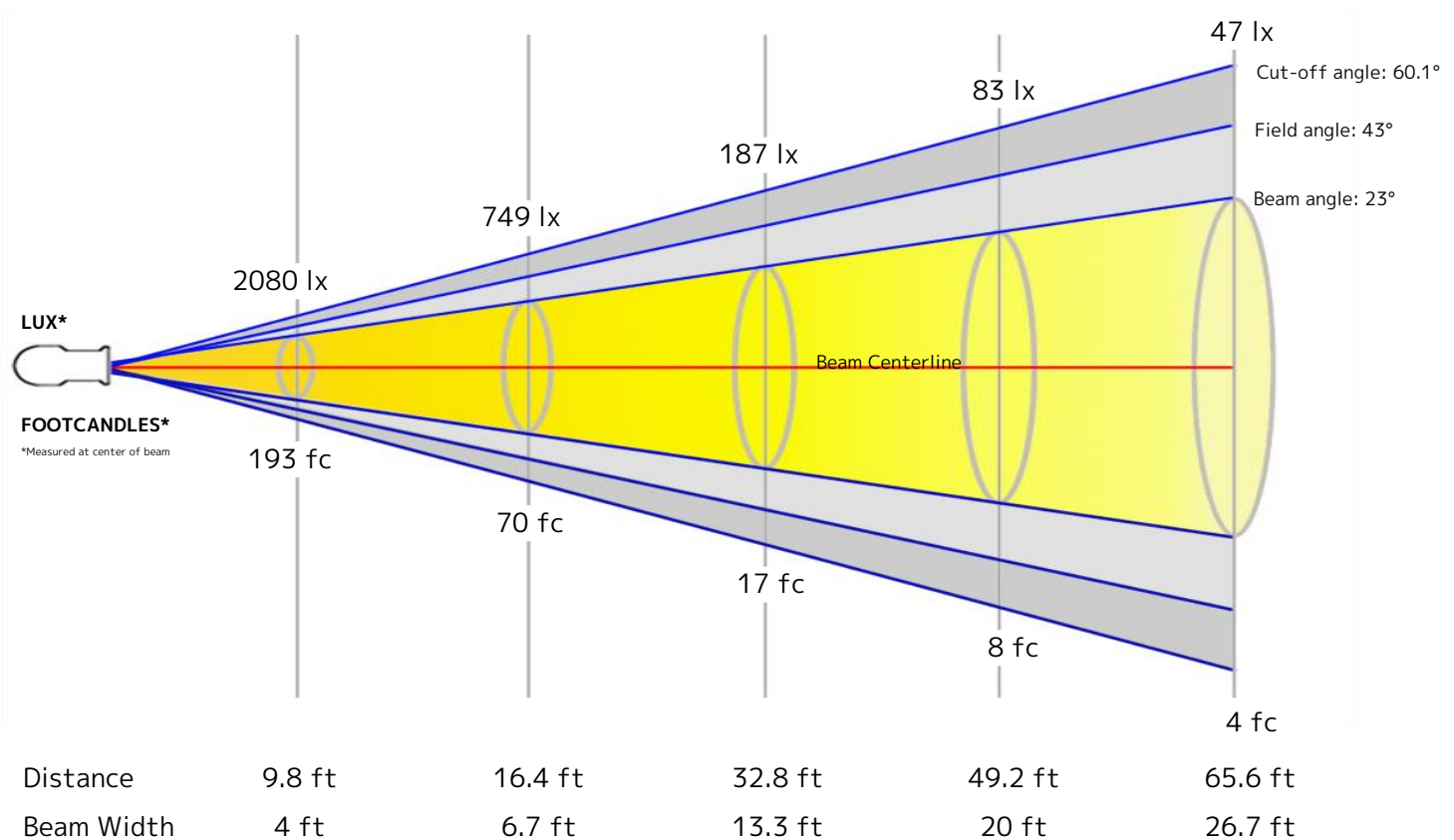Field Angle (10%): 43°

Cutoff Angle (2.5%): 60.2°

Color

Color Temperature: 7334 K

CRI: 68.0

TLCI: 76

TM30 R_F: 77.7

TM30 R_g: 120.1

Power Details

Efficacy: 37 Lumen/Watt

Power: 98.3 W

Supply Voltage: 118 V

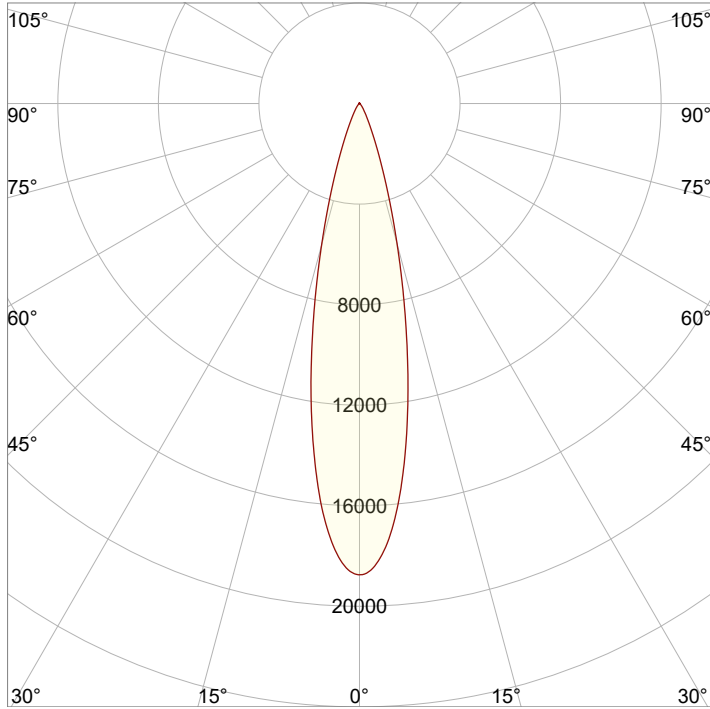Current: 0.835 A

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	8.1 m

LUX*

FOOTCANDLES*

*Measured at center of beam

45 lx

Cut-off angle: 60.2°

79 lx

Field angle: 43°

179 lx

Beam angle: 23°

715 lx

1986 lx

Beam Centerline

184 fc

66 fc

17 fc

7 fc

4 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.3 ft	20 ft	26.7 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	17871	4468	1986	1117	715	496	365	279	221	179	148	124	106	91	79	70	62	55	50	45
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	1660.3	415.1	184.5	103.8	66.4	46.1	33.9	25.9	20.5	16.6	13.7	11.5	9.8	8.5	7.4	6.5	5.7	5.1	4.6	4.2

Measurement Date: 8/19/2024

Angular Distribution

Beam Angle - 50%
23°
Field Angle - 10%
43°
Cutoff Angle - 2.5%
60.2°

ISO Diagrams
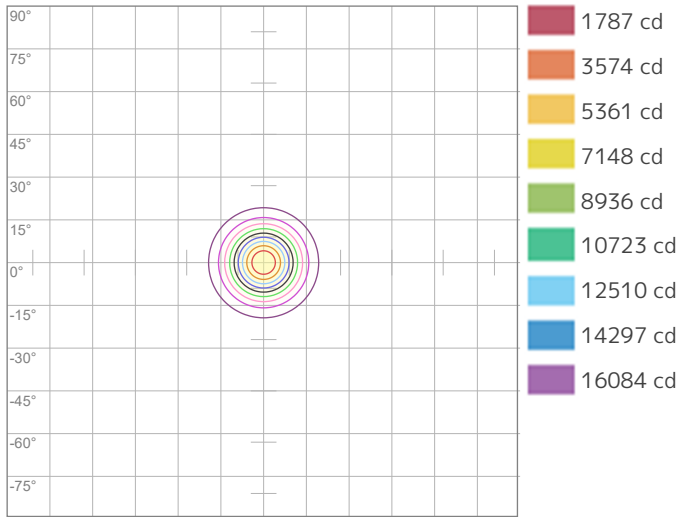
■	1787 cd
■	3574 cd
■	5361 cd
■	7148 cd
■	8936 cd
■	10723 cd
■	12510 cd
■	14297 cd
■	16084 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 17871 cd

|	
■	5.36 lx
■	8.94 lx
■	17.9 lx
■	53.6 lx
■	89.4 lx
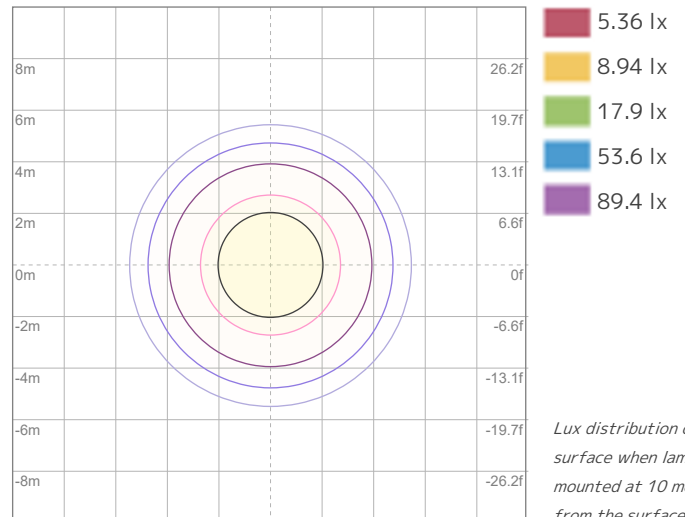
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 179 lx

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

Linear Distribution
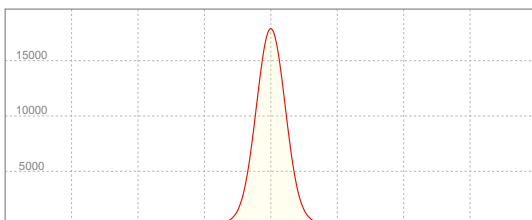
Peak Candela

17873 cd

Calculate Center Beam Intensities

$$lux = 17873 / distance(m)^2$$

$$fc = 17873 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (20°, 2400K)

ELATION

VISO SYSTEMS — Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 2297 lm
Peak Intensity: 11700 cd

Beam
Beam Angle (50%): 22.8°
Field Angle (10%): 42.6°
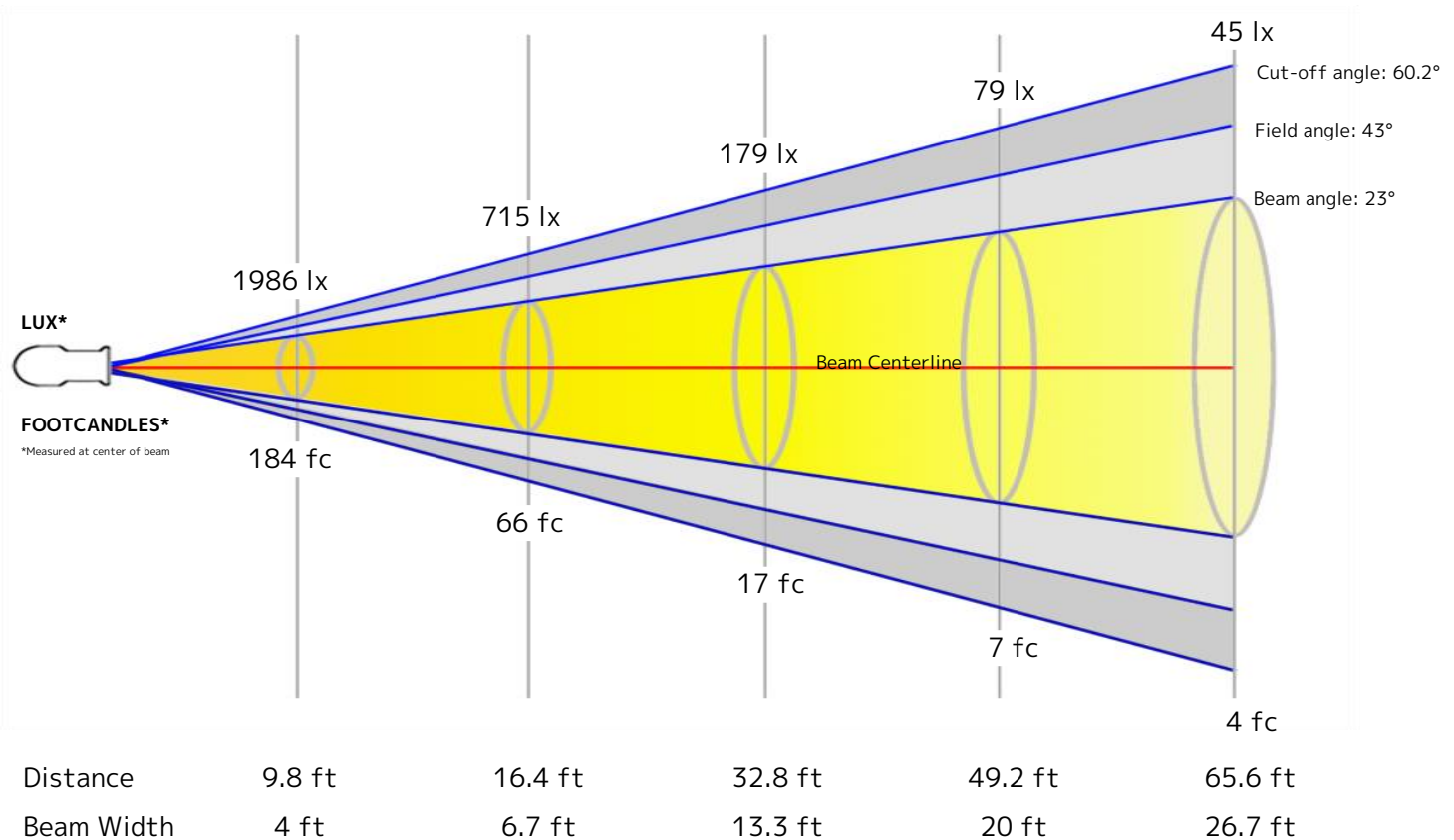Cutoff Angle (2.5%): 59.2°

Color
Color Temperature: 2379 K
CRI: 84.9
TLCI: 72
TM30 R_F: 87.9
TM30 R_g: 108.2

Power Details
Efficacy: 43 Lumen/Watt
Power: 53.2 W
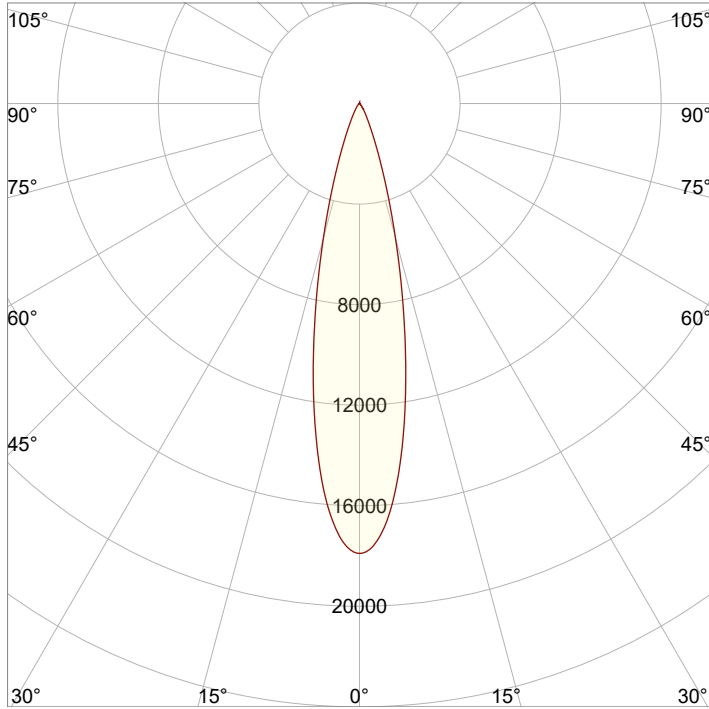Supply Voltage: 120 V
Current: 0.455 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.2 m	2 m	4 m	6.1 m	8.1 m

LUX*

FOOTCANDLES*
*Measured at center of beam

29 lx
52 lx
117 lx
468 lx
1300 lx

Cut-off angle: 59.2°
Field angle: 42.6°
Beam angle: 22.8°

Beam Centerline

121 fc
43 fc
11 fc
5 fc
3 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.6 ft	13.2 ft	19.9 ft	26.5 ft

Beam Intensities from 1-20m

| M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	11696	2924	1300	731	468	325	239	183	144	117	97	81	69	60	52	46	40	36	32	29
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	1086.6	271.6	120.7	67.9	43.5	30.2	22.2	17	13.4	10.9	9	7.5	6.4	5.5	4.8	4.2	3.8	3.4	3	2.7

Measurement Date: 8/19/2024

Angular Distribution

Beam Angle - 50%
22.8°
Field Angle - 10%
42.6°
Cutoff Angle - 2.5%
59.2°

ISO Diagrams
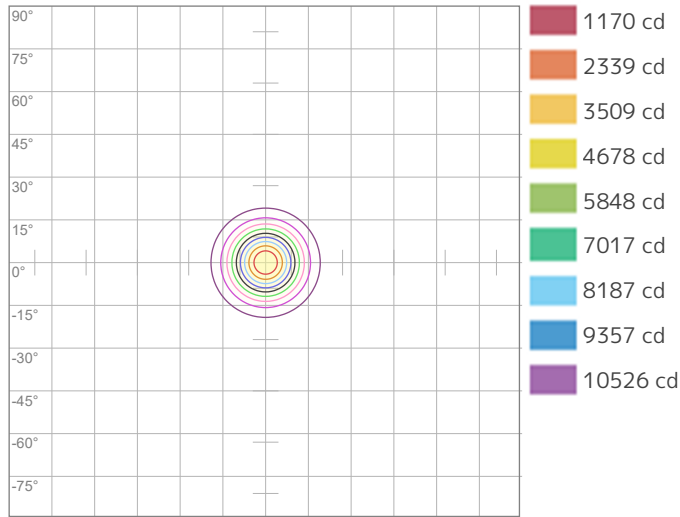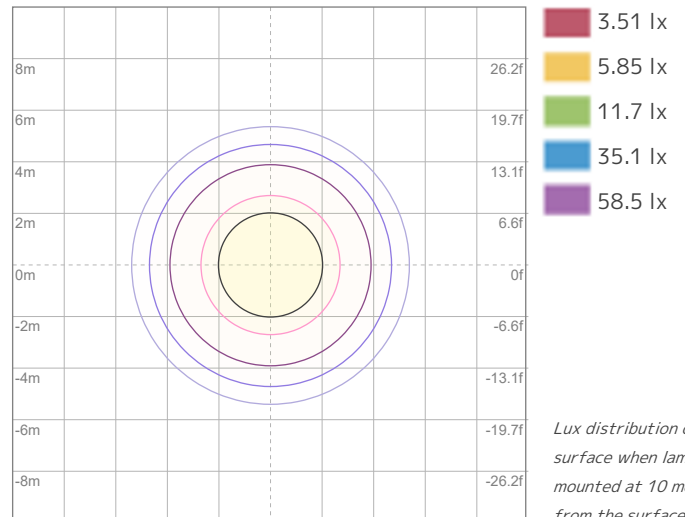
■	1170 cd
■	2339 cd
■	3509 cd
■	4678 cd
■	5848 cd
■	7017 cd
■	8187 cd
■	9357 cd
■	10526 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 11696 cd

■	3.51 lx
■	5.85 lx
■	11.7 lx
■	35.1 lx
■	58.5 lx

ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 117 lx

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

Linear Distribution
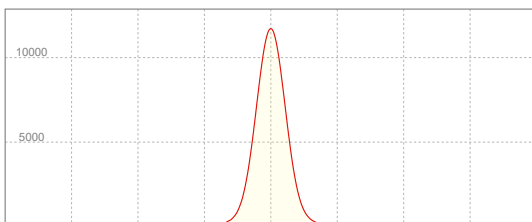
Peak Candela

11700 cd

Calculate Center Beam Intensities

$$lux = 11700 / distance(m)^2$$

$$fc = 11700 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (20°, 3200K)

Key Measurements

Output

Total Lumen Output: 3079 lm

Peak Intensity: 15410 cd

Beam

Beam Angle (50%): 23°

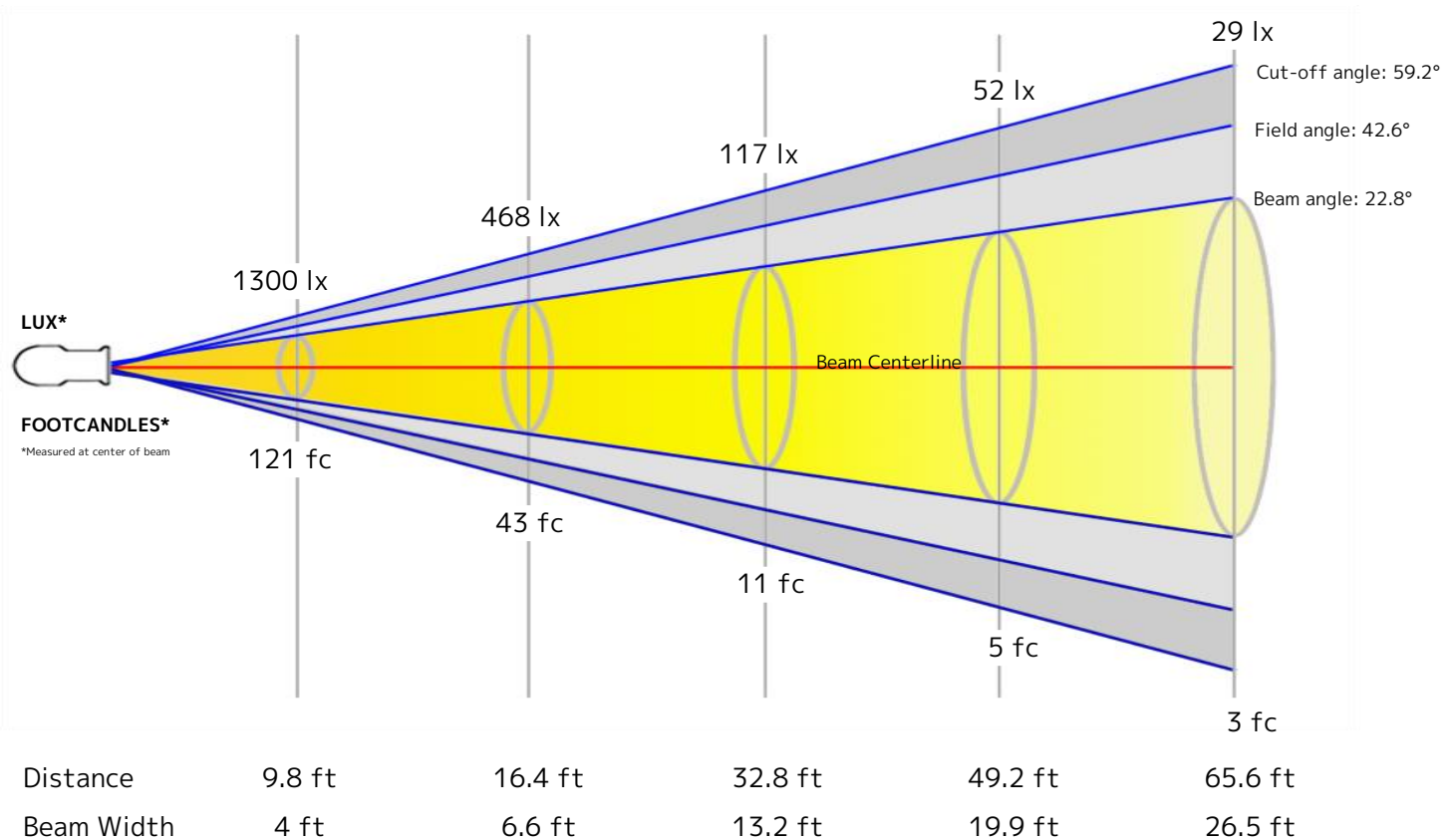Field Angle (10%): 42.9°

Cutoff Angle (2.5%): 59.9°

Color

Color Temperature: 3249 K

CRI: 89.6

TLCI: 79

TM30 R_F: 91.0

TM30 R_g: 107.9

Power Details

Efficacy: 47 Lumen/Watt

Power: 64.8 W

Supply Voltage: 119 V

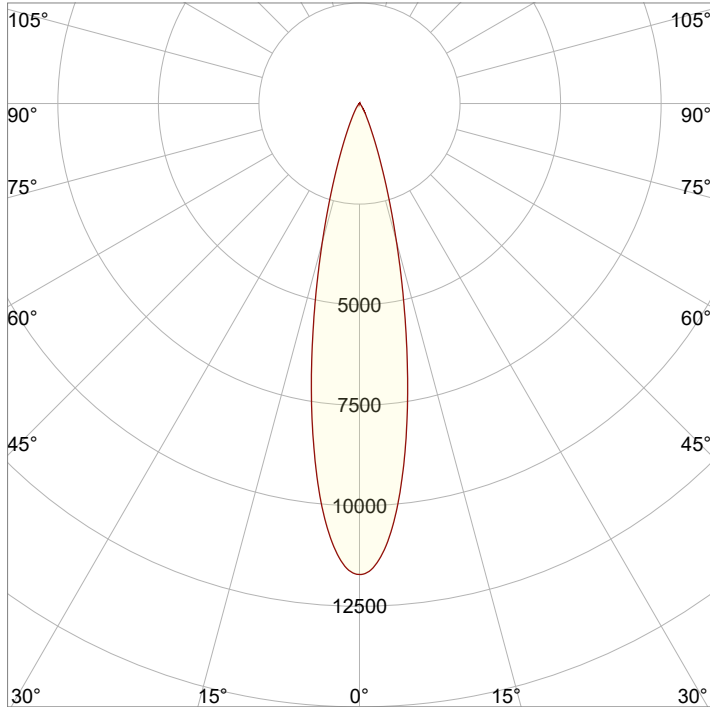Current: 0.551 A

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	8.1 m

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	4 ft	6.7 ft	13.3 ft	20 ft	26.6 ft
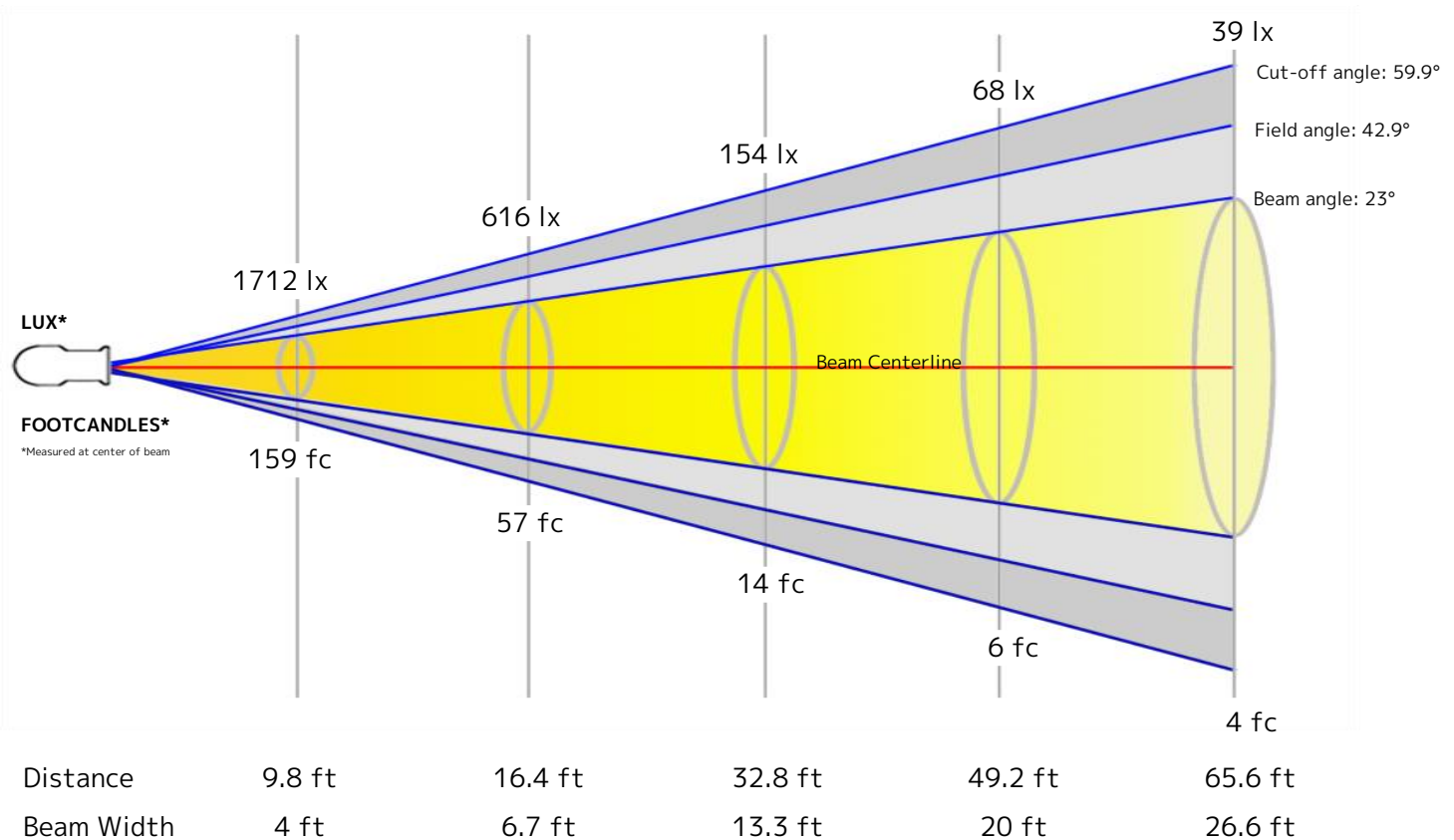
Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	15409	3852	1712	963	616	428	314	241	190	154	127	107	91	79	68	60	53	48	43	39
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1431.5	357.9	159.1	89.5	57.3	39.8	29.2	22.4	17.7	14.3	11.8	9.9	8.5	7.3	6.4	5.6	5	4.4	4	3.6

Measurement Date: 8/19/2024

Six+ Bar S (20°, 3200K)

Angular Distribution

Beam Angle - 50%
23°
Field Angle - 10%
42.9°
Cutoff Angle - 2.5%
59.9°

ISO Diagrams
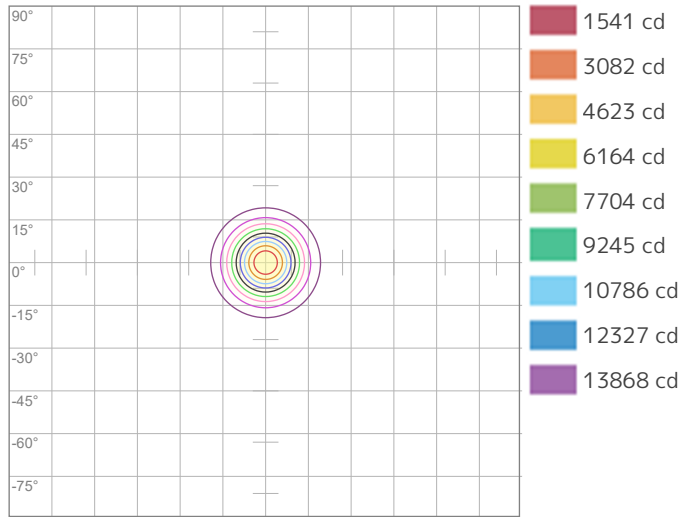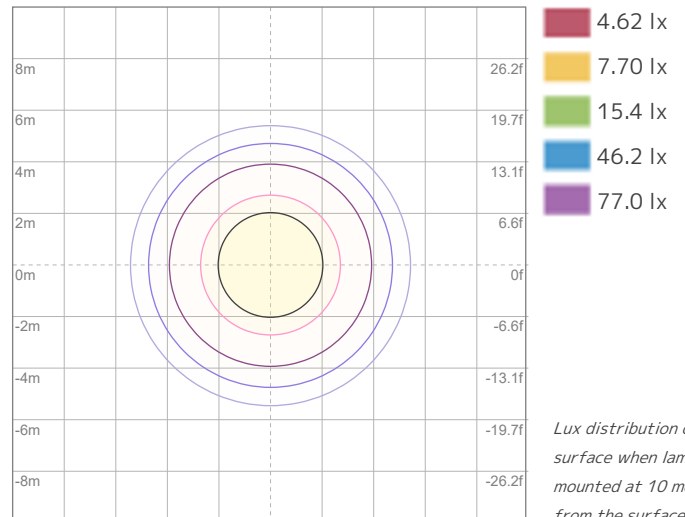
1541 cd	
3082 cd	
4623 cd	
6164 cd	
7704 cd	
9245 cd	
10786 cd	
12327 cd	
13868 cd	

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 15409 cd

4.62 lx	
7.70 lx	
15.4 lx	
46.2 lx	
77.0 lx	

ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 154 lx

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

Linear Distribution
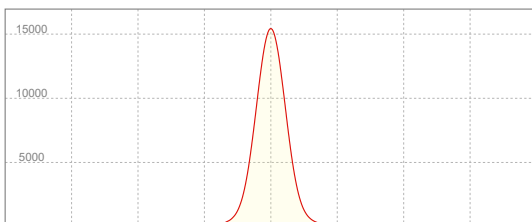
Peak Candela

15410 cd

Calculate Center Beam Intensities

$$lux = 15410 / distance(m)^2$$

$$fc = 15410 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (20°, 4500K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3311 lm

Peak Intensity: 16304 cd

Beam

Beam Angle (50%): 23°

Field Angle (10%): 43.1°

Cutoff Angle (2.5%): 60.4°

Color

Color Temperature: 4520 K

CRI: 90.7

TLCI: 81

TM30 R_F: 90.5

TM30 R_g: 107.4

Power Details

Efficacy: 48 Lumen/Watt

Power: 68.5 W

Supply Voltage: 119 V

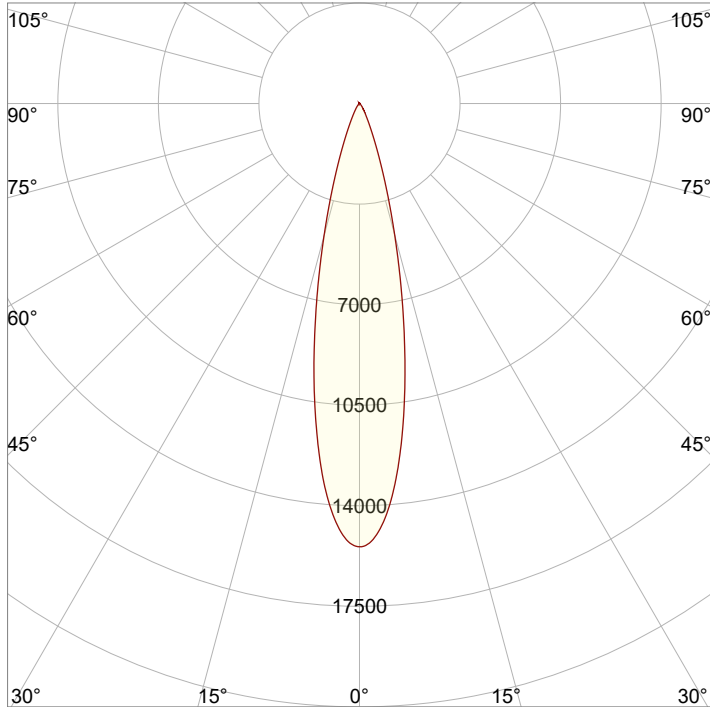Current: 0.582 A

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

41 lx

Cut-off angle: 60.4°

72 lx

Field angle: 43.1°

163 lx

Beam angle: 23°

652 lx

1811 lx

LUX*

Beam Centerline

FOOTCANDLES*

*Measured at center of beam

168 fc

61 fc

15 fc

7 fc

4 fc

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	26.7 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	16295	4074	1811	1018	652	453	333	255	201	163	135	113	96	83	72	64	56	50	45	41
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1513.9	378.5	168.2	94.6	60.6	42.1	30.9	23.7	18.7	15.1	12.5	10.5	9	7.7	6.7	5.9	5.2	4.7	4.2	3.8

Measurement Date: 8/19/2024

Six+ Bar S (20°, 4500K)

Angular Distribution

Beam Angle - 50%
23°
Field Angle - 10%
43.1°
Cutoff Angle - 2.5%
60.4°

ISO Diagrams
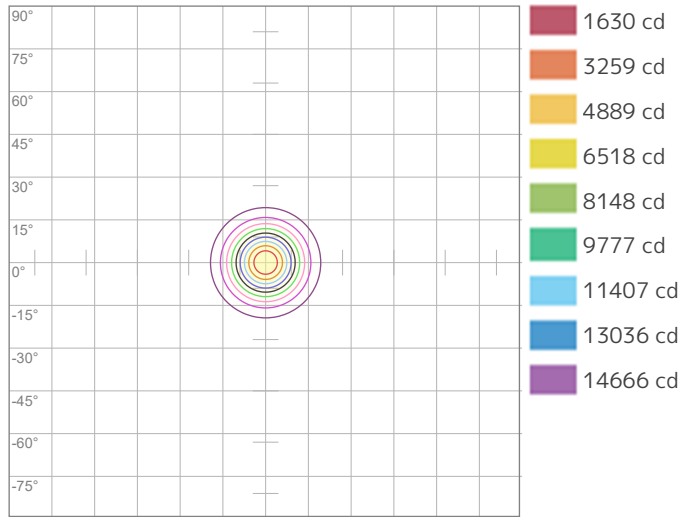
🟥	1630 cd
🟧	3259 cd
🟨	4889 cd
🟨	6518 cd
🟩	8148 cd
🟩	9777 cd
🟦	11407 cd
🟦	13036 cd
🟪	14666 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 16295 cd

🟥	4.89 lx
🟧	8.15 lx
🟩	16.3 lx
🟦	48.9 lx
🟪	81.5 lx
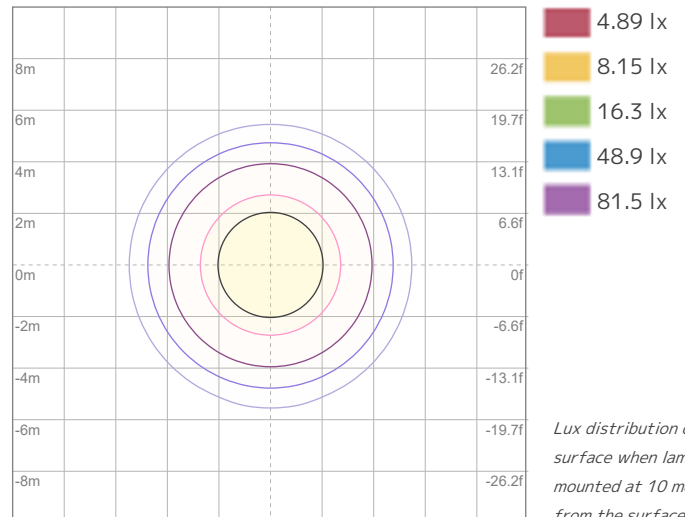
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 163 lx

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

Linear Distribution
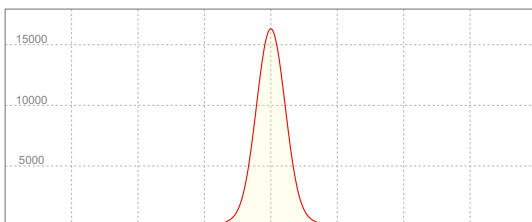
Peak Candela

16304 cd

Calculate Center Beam Intensities

$$lux = 16304 / distance(m)^2$$

$$fc = 16304 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (20°, 6500K)

ELATION

Key Measurements

Output

Total Lumen Output: 3537 lm

Peak Intensity: 17256 cd

Beam

Beam Angle (50%): 23.1°

Field Angle (10%): 43.3°

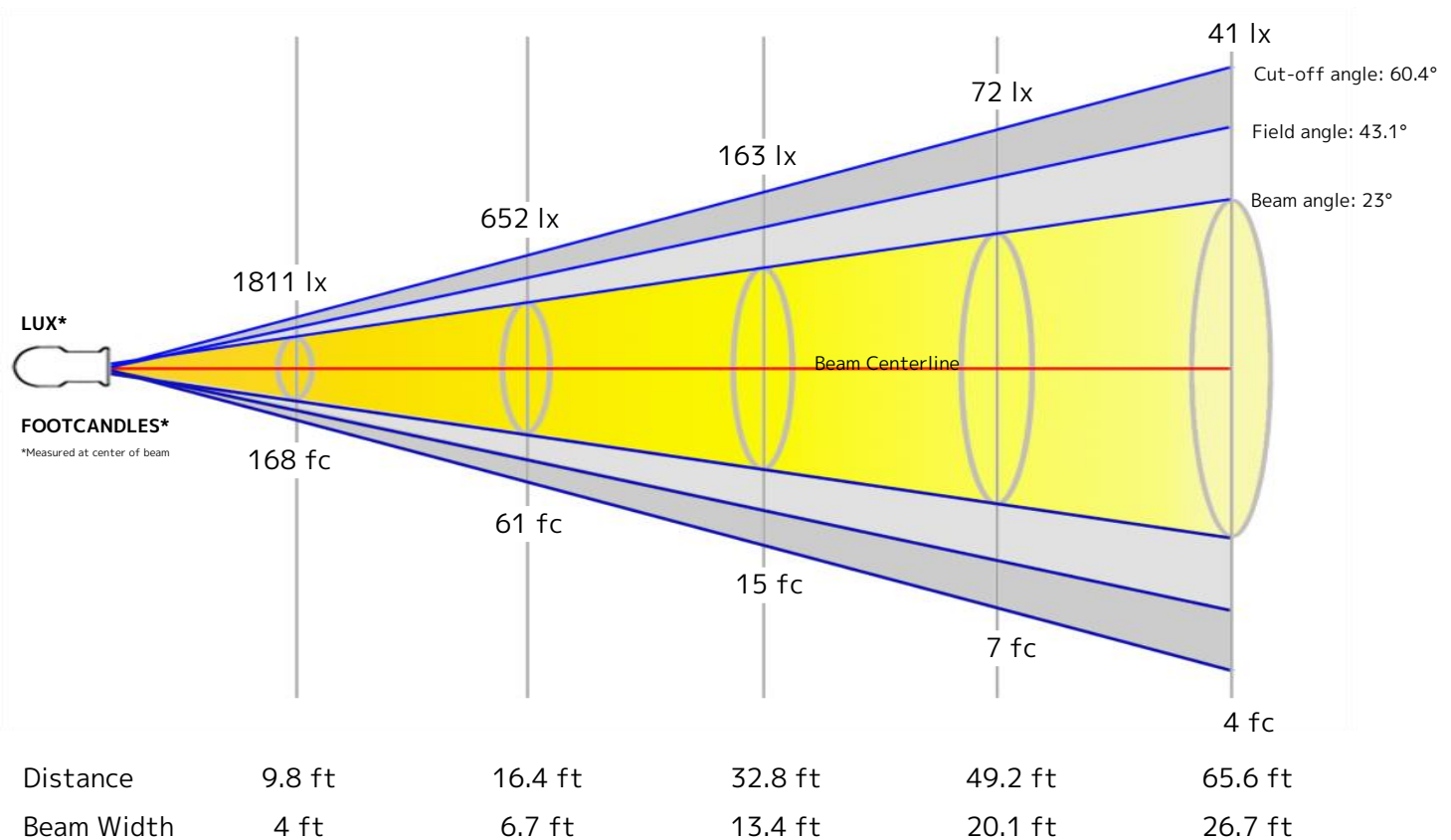Cutoff Angle (2.5%): 60.5°

Color

Color Temperature: 6545 K

CRI: 89.2

TLCI: 85

TM30 R_F: 88.4

TM30 R_g: 106.1

Power Details

Efficacy: 47 Lumen/Watt

Power: 75.1 W

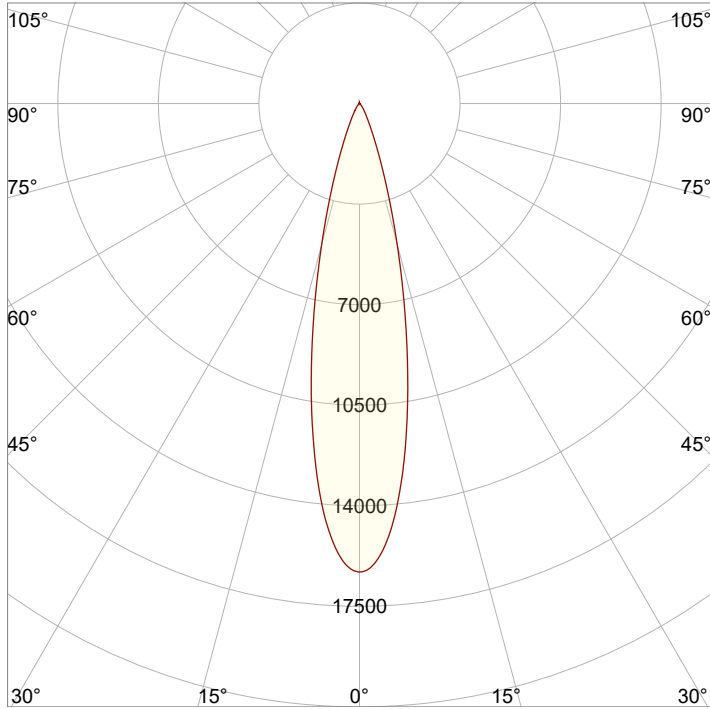Supply Voltage: 119 V

Current: 0.638 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
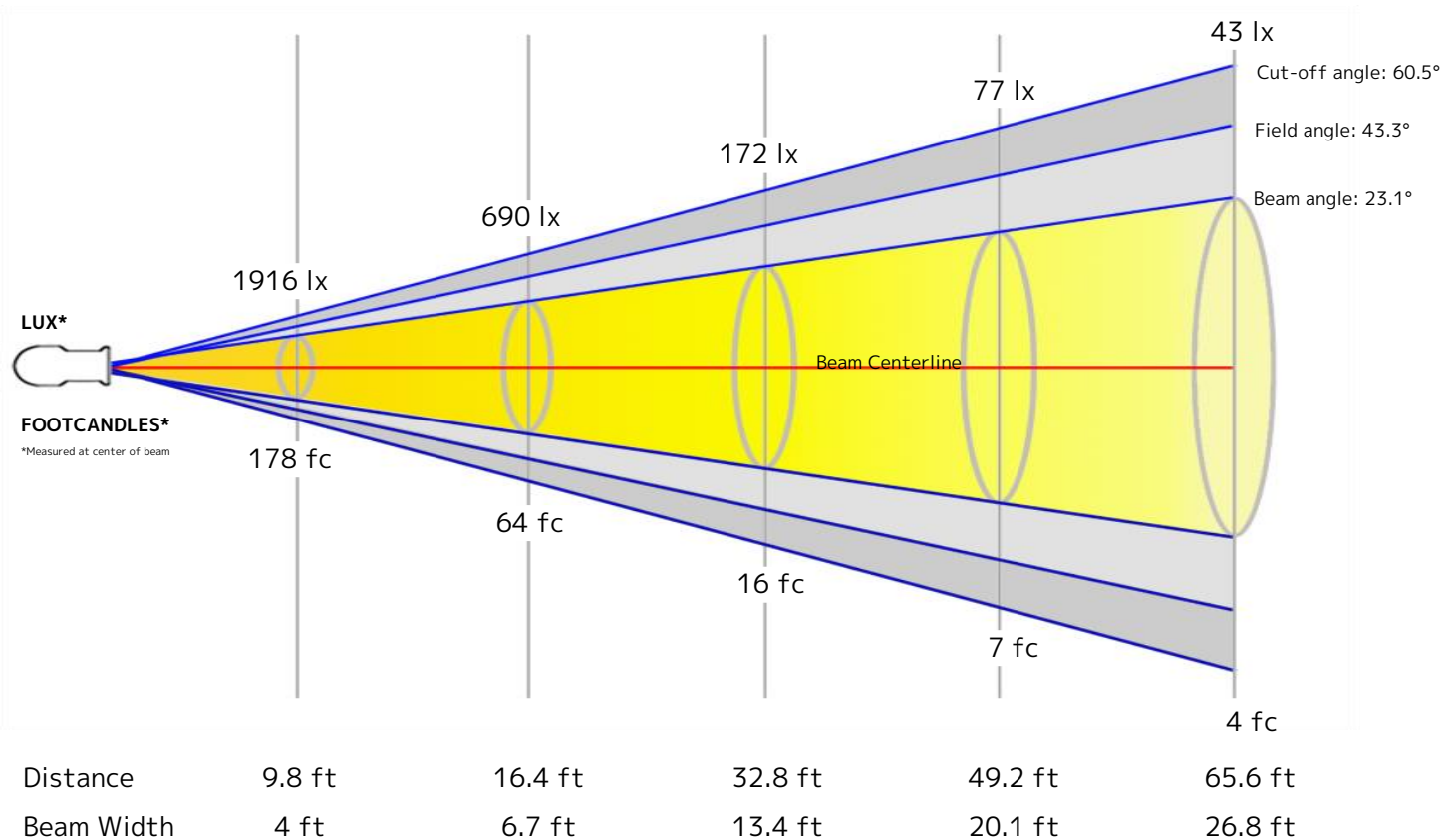
Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	17246	4312	1916	1078	690	479	352	269	213	172	143	120	102	88	77	67	60	53	48	43
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1602.2	400.6	178	100.1	64.1	44.5	32.7	25	19.8	16	13.2	11.1	9.5	8.2	7.1	6.3	5.5	4.9	4.4	4

Measurement Date: 8/19/2024

Angular Distribution

Beam Angle - 50%
23.1°
Field Angle - 10%
43.3°
Cutoff Angle - 2.5%
60.5°

ISO Diagrams
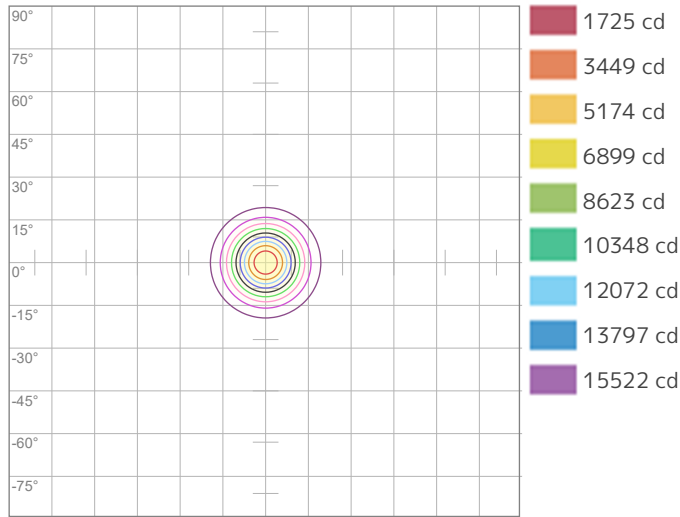
■	1725 cd
■	3449 cd
■	5174 cd
■	6899 cd
■	8623 cd
■	10348 cd
■	12072 cd
■	13797 cd
■	15522 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 17246 cd

|	
■	5.17 lx
■	8.62 lx
■	17.2 lx
■	51.7 lx
■	86.2 lx
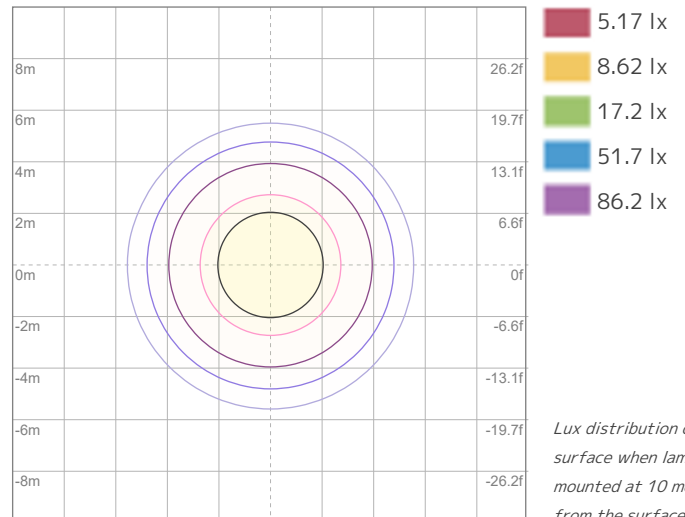
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 172 lx

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

Linear Distribution
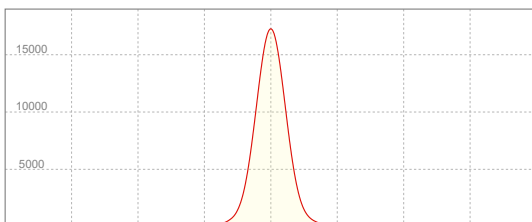
Peak Candela

17256 cd

Calculate Center Beam Intensities

$$lux = 17256 / distance(m)^2$$

$$fc = 17256 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (20°, 8500K)

ELATION

VISO SYSTEMS — Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 3444 lm

Peak Intensity: 16716 cd

Beam
Beam Angle (50%): 23.1°

Field Angle (10%): 43.3°

Cutoff Angle (2.5%): 60.9°

Color
Color Temperature: 8442 K

CRI: 88.3

TLCI: 85

TM30 R_F: 87.0

TM30 R_g: 104.4

Power Details
Efficacy: 46 Lumen/Watt

Power: 74.4 W

Supply Voltage: 120 V
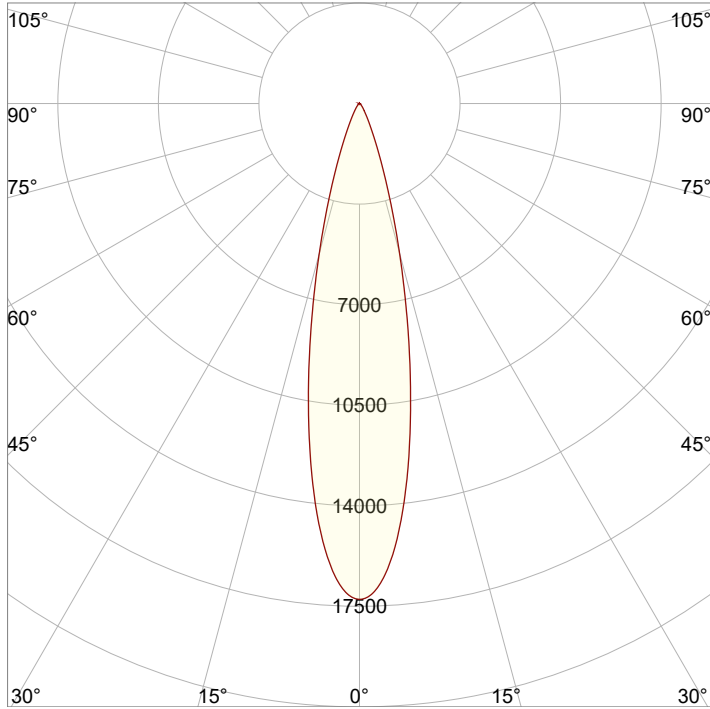
Current: 0.630 A

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

LUX*

FOOTCANDLES*

*Measured at center of beam

42 lx — Cut-off angle: 60.9°
74 lx — Field angle: 43.3°
167 lx — Beam angle: 23.1°
668 lx
1856 lx

Beam Centerline

172 fc
62 fc
16 fc
7 fc
4 fc

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	16708	4177	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	1552.2	388.1	172.5	97	62.1	43.1	31.7	24.3	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: 8/19/2024

Six+ Bar S (20°, 8500K)

Angular Distribution

Beam Angle - 50%
23.1°
Field Angle - 10%
43.3°
Cutoff Angle - 2.5%
60.9°

ISO Diagrams
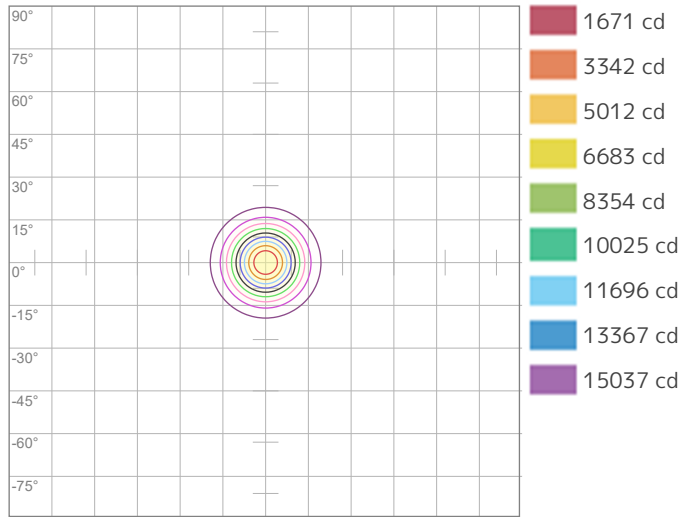
🟥	1671 cd
🟧	3342 cd
🟨	5012 cd
🟨	6683 cd
🟩	8354 cd
🟩	10025 cd
🟦	11696 cd
🟦	13367 cd
🟪	15037 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 16708 cd

🟥	5.01 lx
🟧	8.35 lx
🟩	16.7 lx
🟦	50.1 lx
🟪	83.5 lx
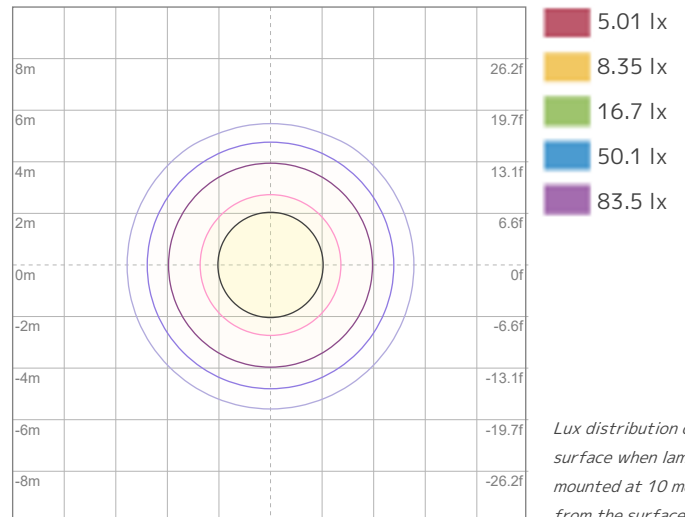
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 167 lx

Linear Distribution
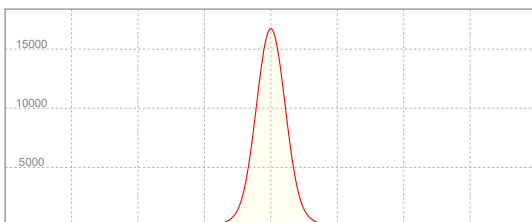
Peak Candela

16716 cd

Calculate Center Beam Intensities

$$lux = 16716 / distance(m)^2$$

$$fc = 16716 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (60°, Full Output, No UV)

ELATION | **VISO SYSTEMS**
Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3753 lm

Peak Intensity: 3065 cd

Beam

Beam Angle (50%): 62.5°

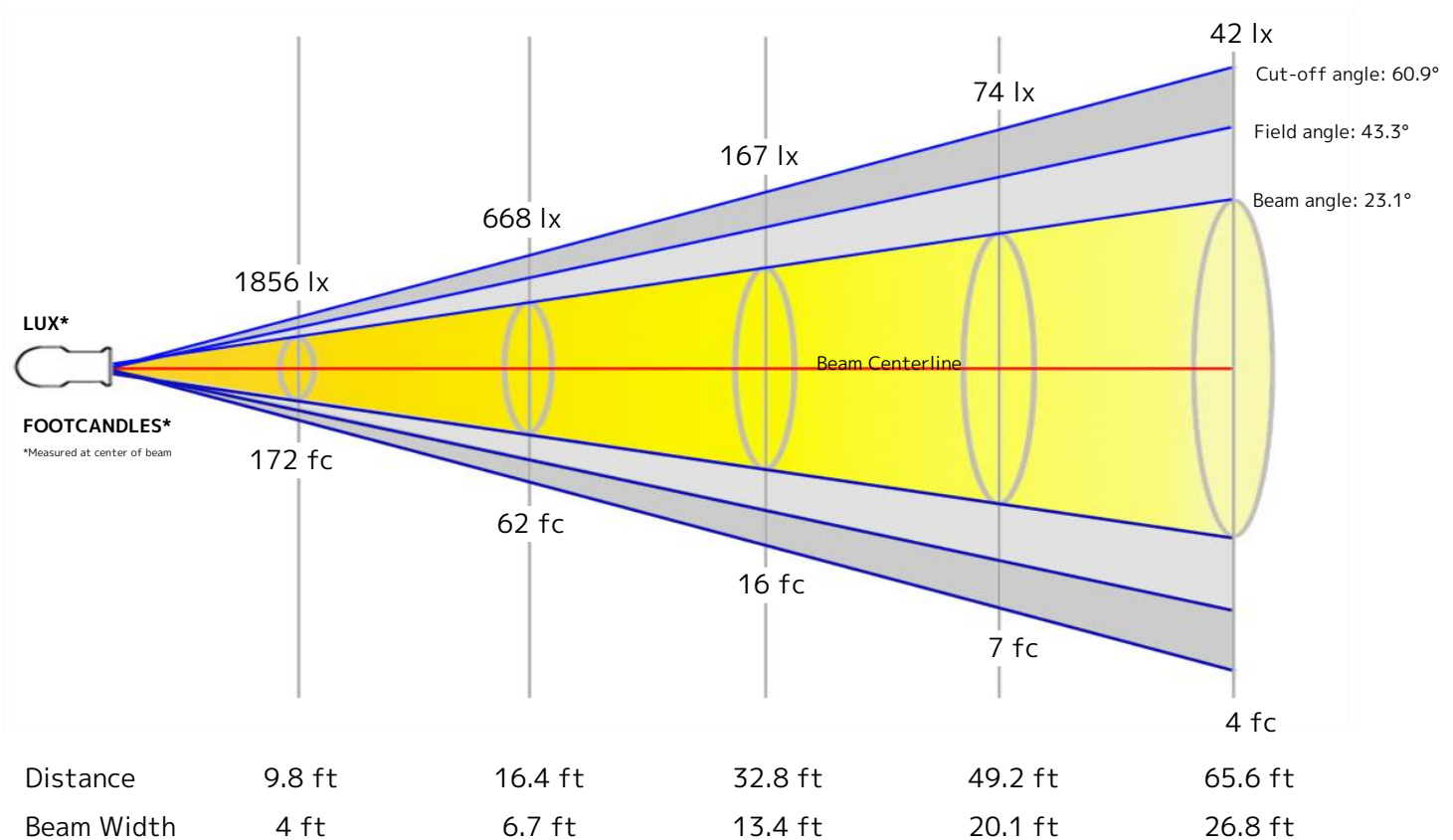Field Angle (10%): 111.7°

Cutoff Angle (2.5%): 139.9°

Color

Color Temperature: 7203 K

CRI: 69.2

TLCI: 78

TM30 R_F: 78.7

TM30 R_g: 119.5

Power Details

Efficacy: 43 Lumen/Watt

Power: 86.9 W

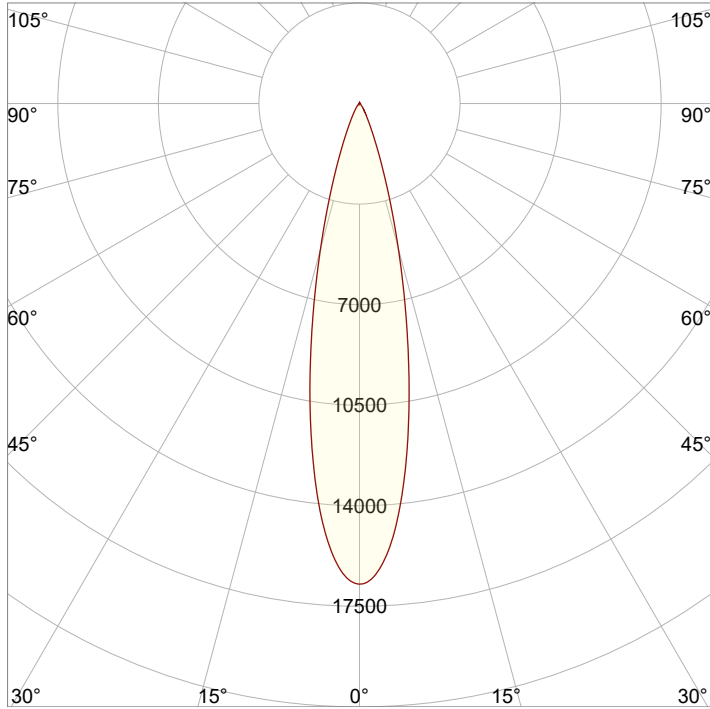Supply Voltage: 119 V

Current: 0.734 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.6 m	6.1 m	12.1	18.2 m	24.3 m

LUX*

FOOTCANDLES*
*Measured at center of beam

340 lx · 122 lx · 31 lx · 14 lx · 8 lx

Cut-off angle: 139.9°
Field angle: 111.7°
Beam angle: 62.5°

Beam Centerline

32 fc · 11 fc · 3 fc · 1 fc · 1 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	11.9 ft	19.9 ft	39.8 ft	59.7 ft	79.7 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	3057	764	340	191	122	85	62	48	38	31	25	21	18	16	14	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	284	71	31.6	17.8	11.4	7.9	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: 8/19/2024

Angular Distribution
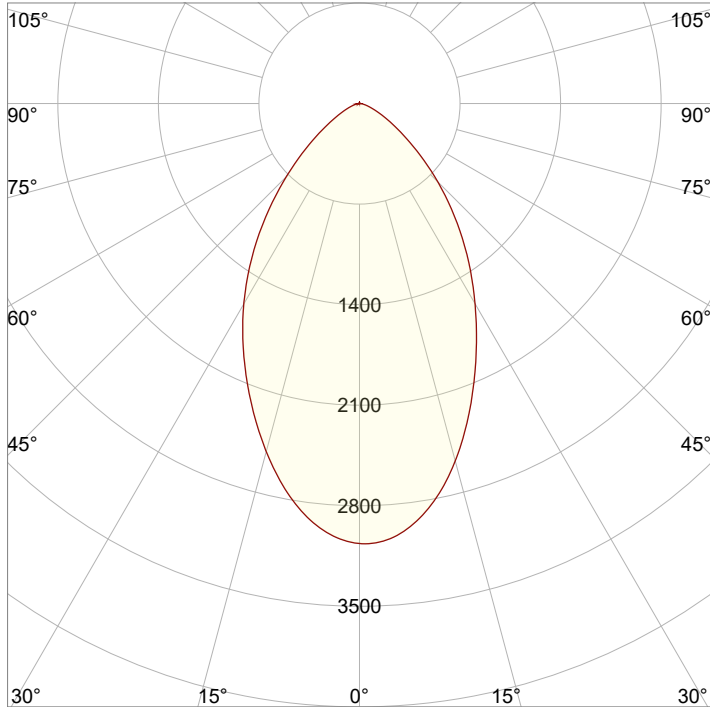
Beam Angle - 50%
62.5°
Field Angle - 10%
111.7°
Cutoff Angle - 2.5%
139.9°

ISO Diagrams

■	306 cd
■	611 cd
■	917 cd
■	1223 cd
■	1529 cd
■	1834 cd
■	2140 cd
■	2446 cd
■	2751 cd
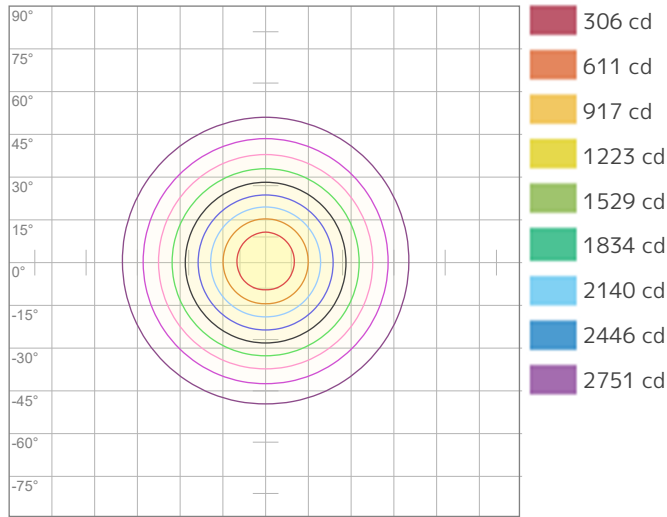
ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 3057 cd

■	0.917 lx
■	1.53 lx
■	3.06 lx
■	9.17 lx
■	15.3 lx

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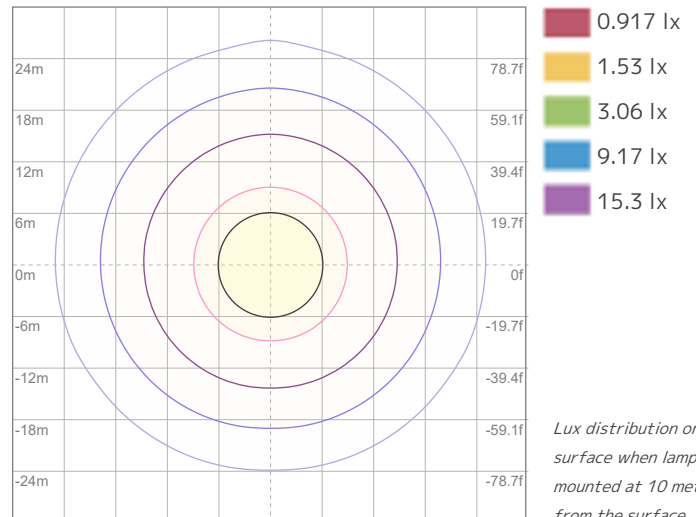
ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 30.6 lx

Linear Distribution
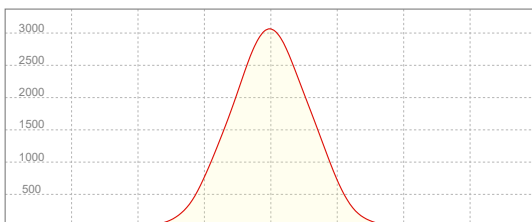
Peak Candela
3065 cd

Calculate Center Beam Intensities

$$lux = 3065 / distance(m)^2$$
$$fc = 3065 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (60°, Full Output)

Key Measurements

Output
Total Lumen Output: 3395 lm

Peak Intensity: 2786 cd

Beam
Beam Angle (50%): 62.4°
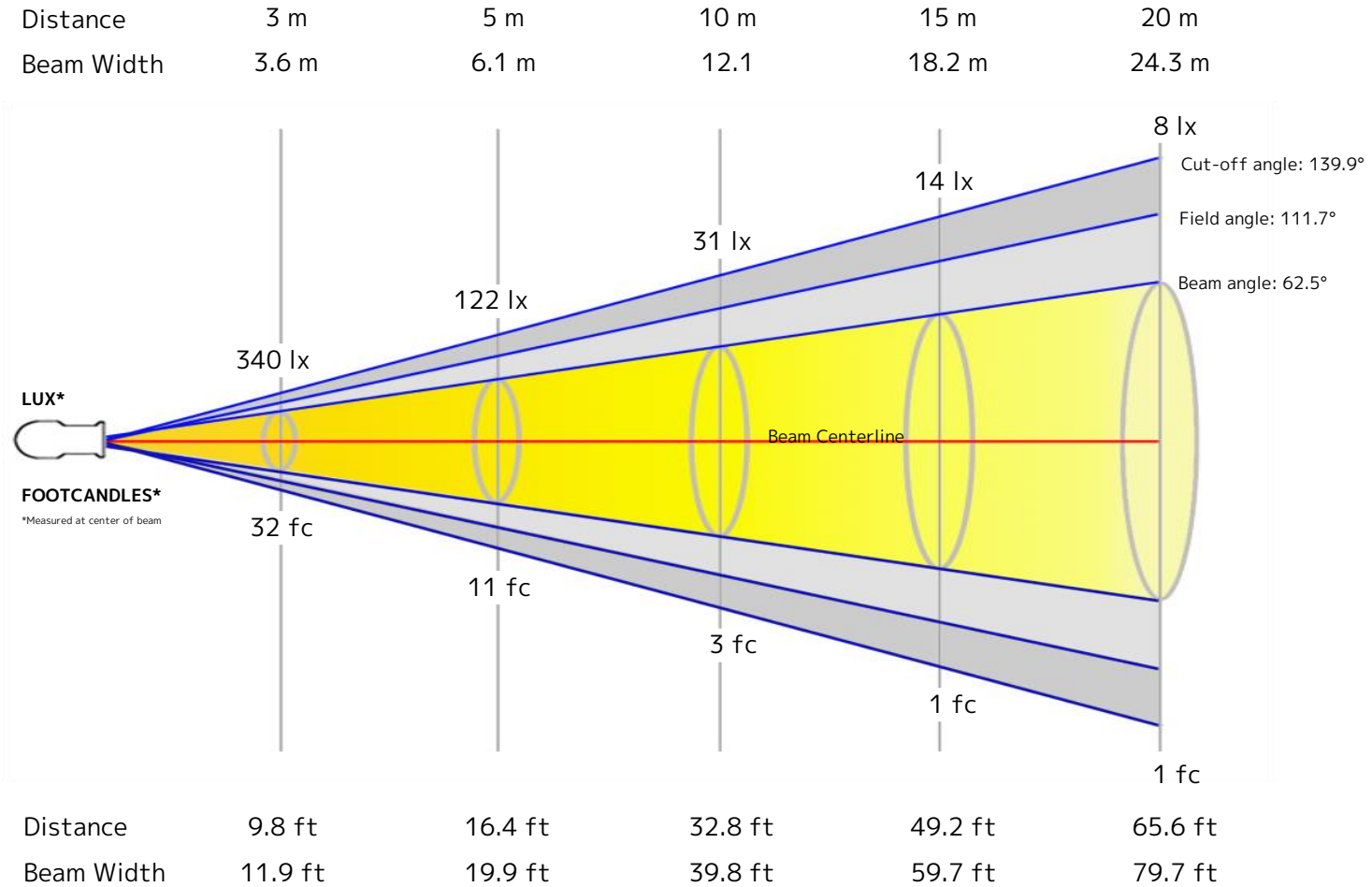
Field Angle (10%): 111.7°

Cutoff Angle (2.5%): 139.4°

Color
Color Temperature: 7759 K

CRI: 67.5

TLCI: 77

TM30 R_F: 77.1

TM30 R_g: 120.0

Power Details
Efficacy: 37 Lumen/Watt

Power: 91.3 W

Supply Voltage: 120 V

Current: 0.767 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.6 m	6.1 m	12.1	18.2 m	24.2 m

LUX*

FOOTCANDLES*

*Measured at center of beam

309 lx

111 lx

28 lx

12 lx

7 lx

Cut-off angle: 139.4°

Field angle: 111.7°

Beam angle: 62.4°

Beam Centerline

29 fc

10 fc

3 fc

1 fc

1 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	11.9 ft	19.9 ft	39.7 ft	59.6 ft	79.4 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	2779	695	309	174	111	77	57	43	34	28	23	19	16	14	12	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	258.2	64.6	28.7	16.1	10.3	7.2	5.3	4	3.2	2.6	2.1	1.8	1.5	1.3	1.1	1	0.9	0.8	0.7	0.6

Measurement Date: 8/19/2024

Angular Distribution
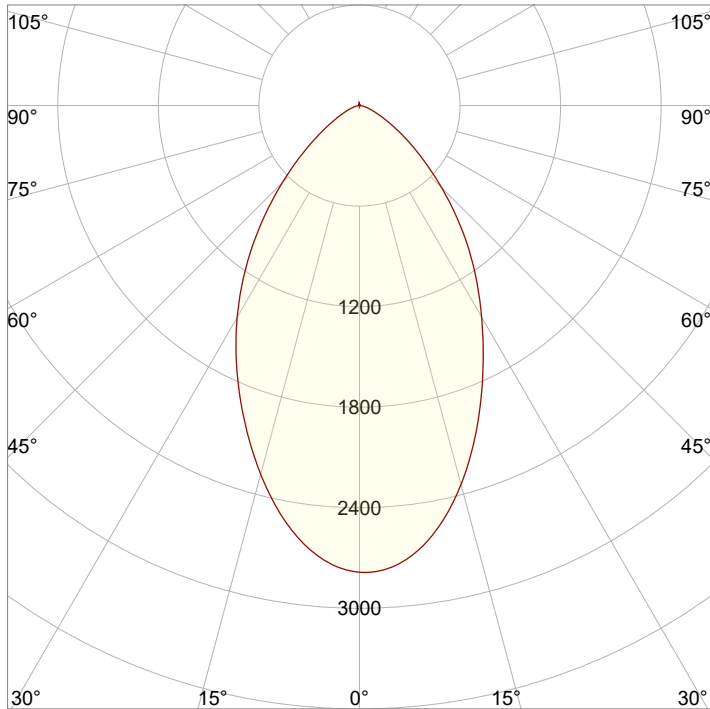
Beam Angle - 50%
62.4°
Field Angle - 10%
111.7°
Cutoff Angle - 2.5%
139.4°

ISO Diagrams
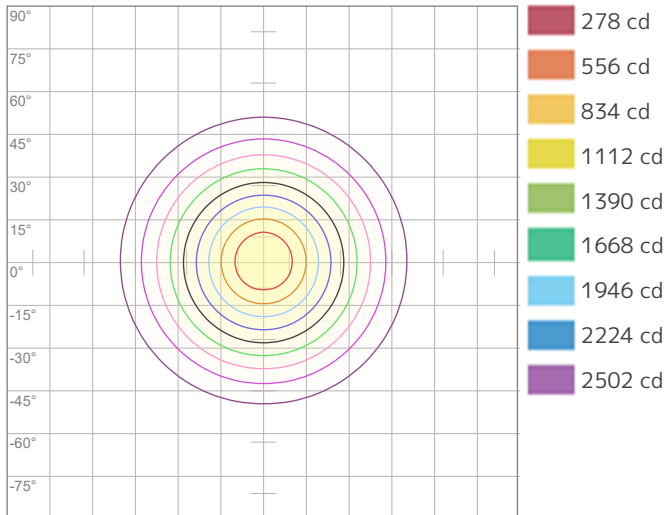
	278 cd
	556 cd
	834 cd
	1112 cd
	1390 cd
	1668 cd
	1946 cd
	2224 cd
	2502 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2779 cd

	0.834 lx
	1.39 lx
	2.78 lx
	8.34 lx
	13.9 lx

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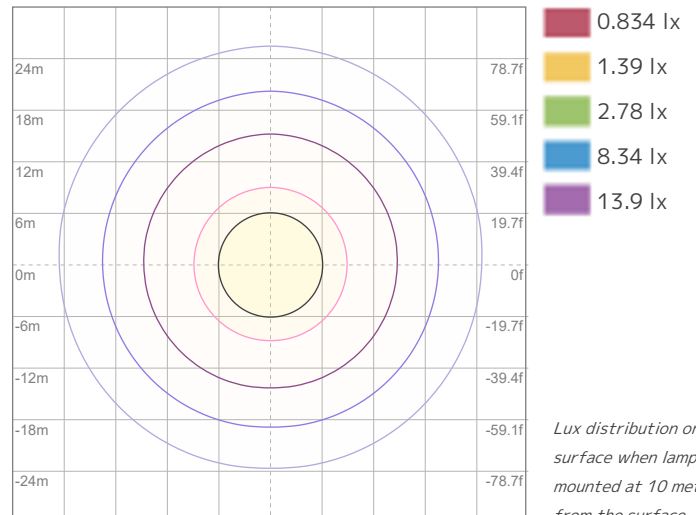
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 27.8 lx

Linear Distribution
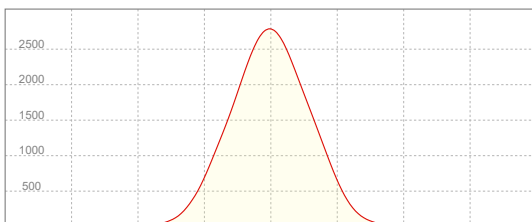
Peak Candela

2786 cd

Calculate Center Beam Intensities

$$lux = 2786 / distance(m)^2$$

$$fc = 2786 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (60°, 2400K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 2457 lm

Peak Intensity: 2033 cd

Beam

Beam Angle (50%): 62.2°

Field Angle (10%): 111.3°

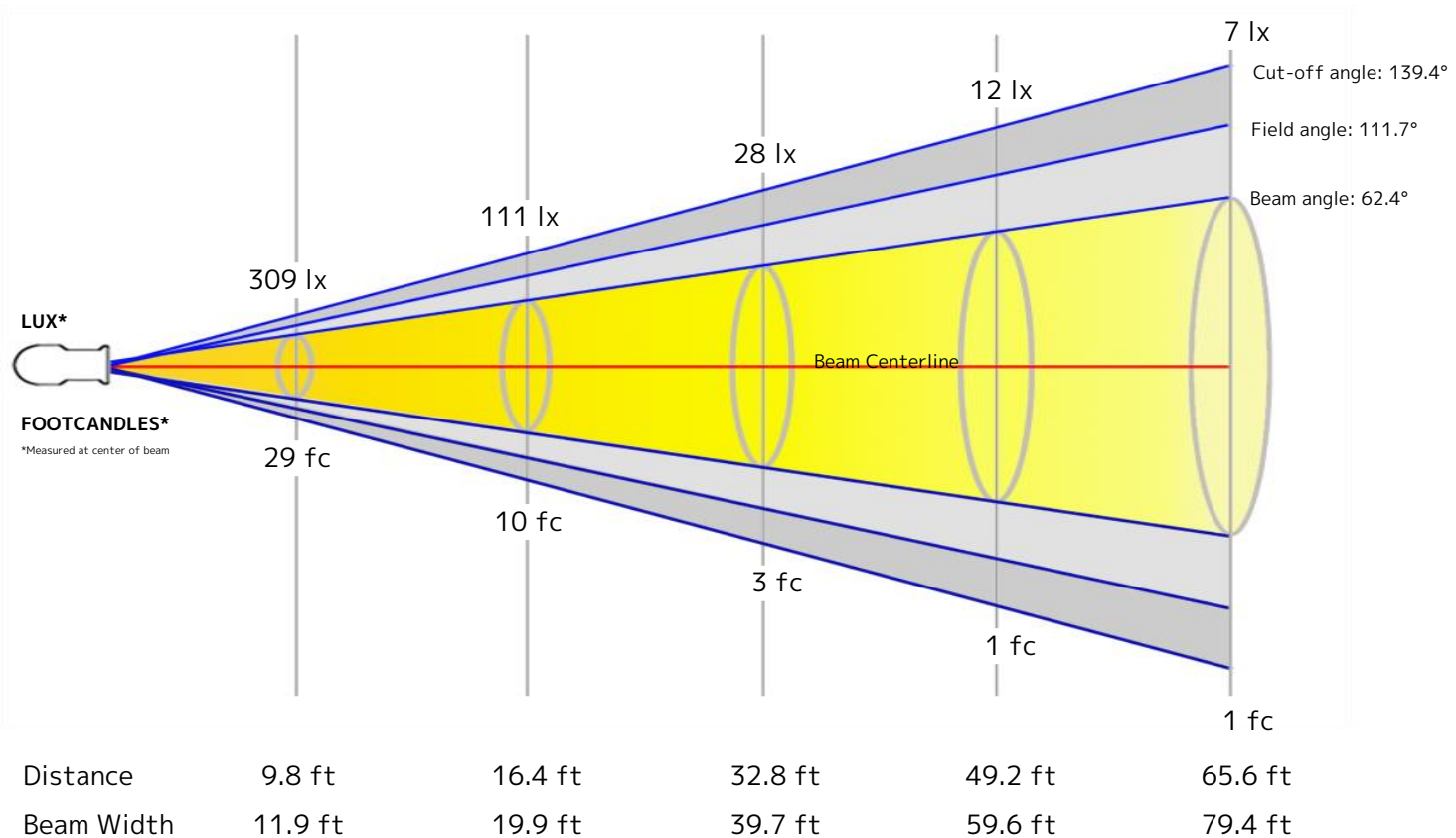Cutoff Angle (2.5%): 138.2°

Color

Color Temperature: 2400 K

CRI: 84.7

TLCI: 71

TM30 R_F: 87.7

TM30 R_g: 108.6

Power Details

Efficacy: 45 Lumen/Watt

Power: 54.1 W

Supply Voltage: 120 V

Current: 0.463 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.6 m	6 m	12.1	18.1 m	24.1 m

LUX*

FOOTCANDLES*
*Measured at center of beam

5 lx
Cut-off angle: 138.2°
9 lx
Field angle: 111.3°
20 lx
81 lx
Beam angle: 62.2°
225 lx
Beam Centerline
21 fc
8 fc
2 fc
1 fc
0 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	11.8 ft	19.8 ft	39.6 ft	59.4 ft	79.2 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	2028	507	225	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	188.4	47.1	20.9	11.8	7.5	5.2	3.8	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: 8/19/2024

Six+ Bar S (60°, 2400K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution
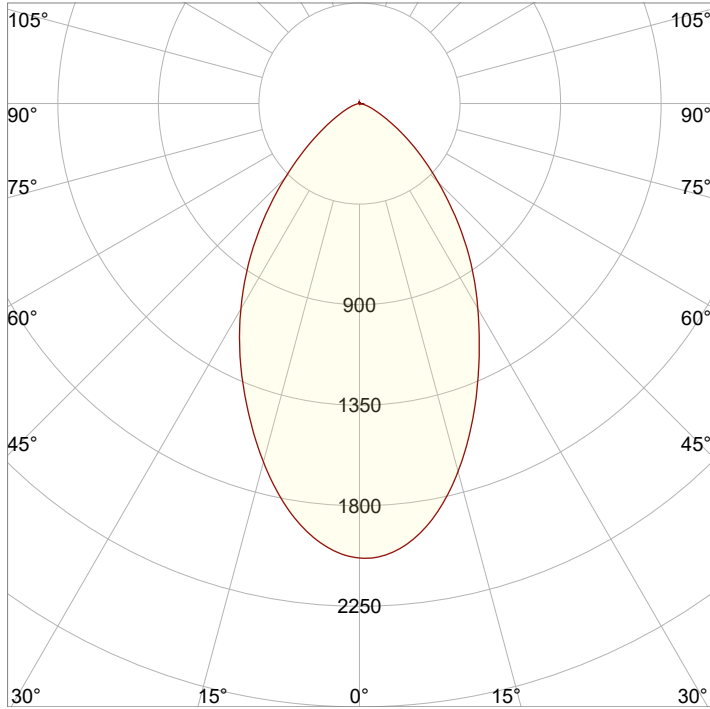
Beam Angle - 50%
62.2°
Field Angle - 10%
111.3°
Cutoff Angle - 2.5%
138.2°

ISO Diagrams
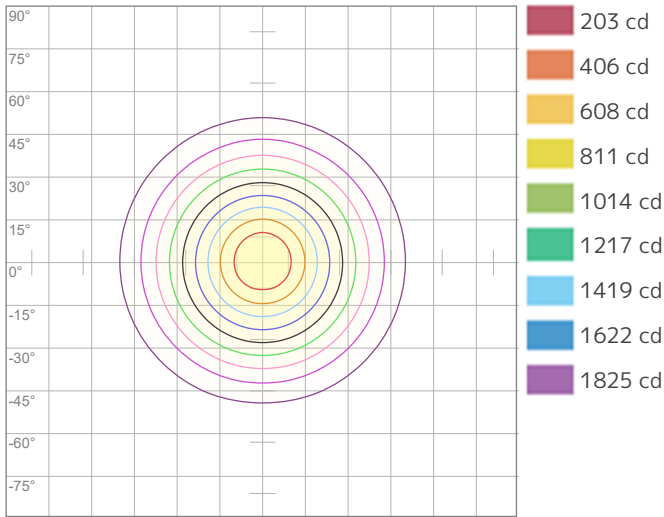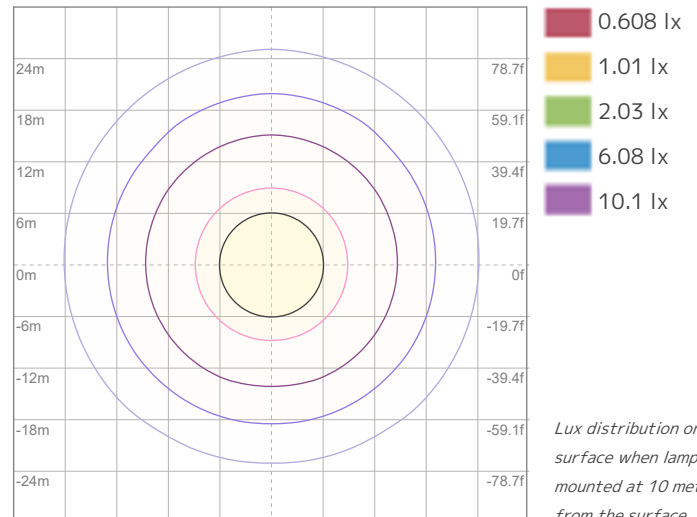
🟥	203 cd
🟧	406 cd
🟨	608 cd
🟨	811 cd
🟩	1014 cd
🟩	1217 cd
🟦	1419 cd
🟦	1622 cd
🟪	1825 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2028 cd

🟥	0.608 lx
🟧	1.01 lx
🟩	2.03 lx
🟦	6.08 lx
🟪	10.1 lx

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
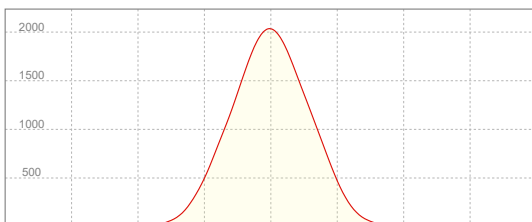
Peak Candela

2033 cd

Calculate Center Beam Intensities

$$lux = 2033 \, / \, distance(m)^2$$

$$fc = 2033 \, / \, distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (60°, 3200K)

ELATION

VISO SYSTEMS — Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 3178 lm

Peak Intensity: 2601 cd

Beam
Beam Angle (50%): 62.4°

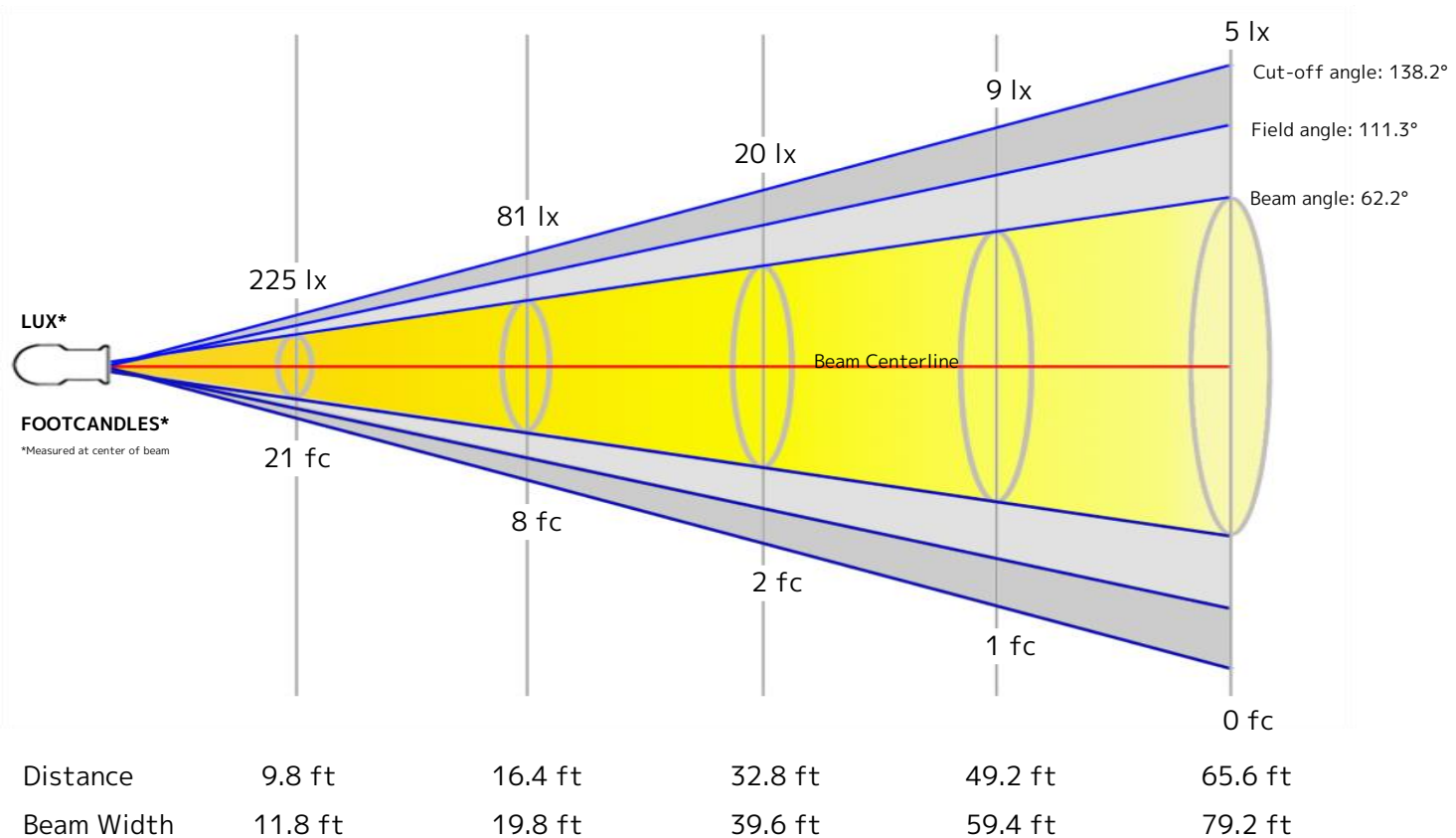Field Angle (10%): 111.6°

Cutoff Angle (2.5%): 139.8°

Color
Color Temperature: 3165 K

CRI: 89.1

TLCI: 79

TM30 R_F: 90.8

TM30 R_g: 108.1

Power Details
Efficacy: 49 Lumen/Watt

Power: 64.7 W

Supply Voltage: 119 V

Current: 0.551 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.6 m	6.1 m	12.1	18.2 m	24.2 m

LUX*

FOOTCANDLES*

*Measured at center of beam

Cut-off angle: 139.8°

Field angle: 111.6°

Beam angle: 62.4°

Beam Centerline

6 lx

12 lx

26 lx

104 lx

288 lx

27 fc

10 fc

2 fc

1 fc

1 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	11.9 ft	19.9 ft	39.8 ft	59.6 ft	79.5 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	2595	649	288	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	241.1	60.3	26.8	15.1	9.6	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: 8/19/2024

Elation

Six+ Bar S (60°, 3200K)

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution

Beam Angle - 50%
62.4°
Field Angle - 10%
111.6°
Cutoff Angle - 2.5%
139.8°

ISO Diagrams
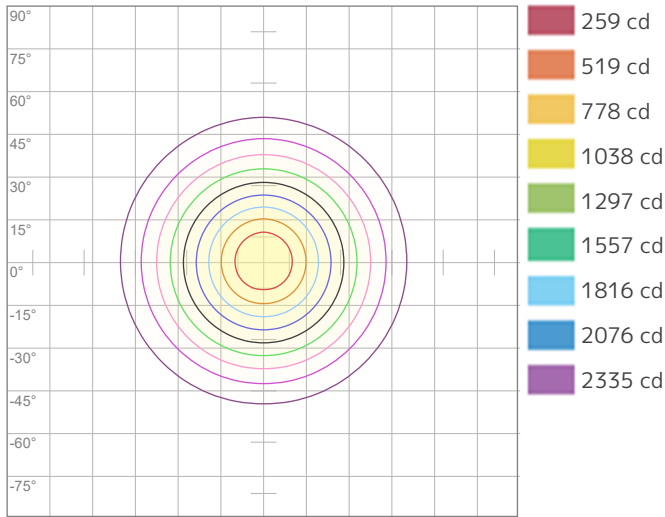
■	259 cd
■	519 cd
■	778 cd
■	1038 cd
■	1297 cd
■	1557 cd
■	1816 cd
■	2076 cd
■	2335 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2595 cd

■	0.778 lx
■	1.30 lx
■	2.59 lx
■	7.78 lx
■	13.0 lx
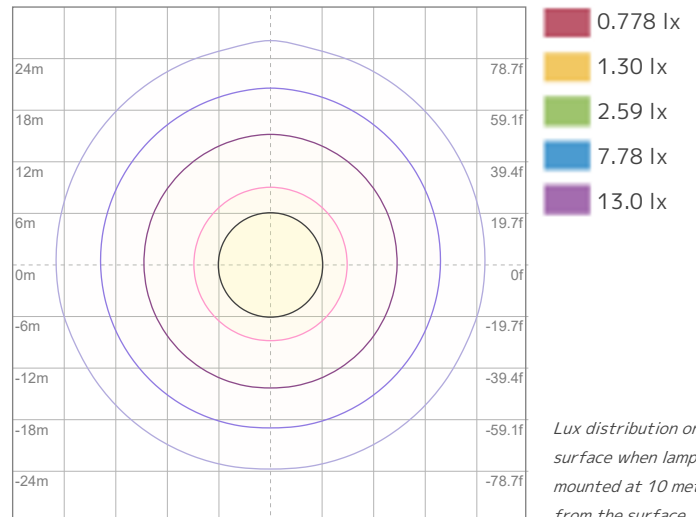
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 25.9 lx

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

Linear Distribution

Peak Candela

2601 cd

Calculate Center Beam Intensities

$$lux = 2601 / distance(m)^2$$

$$fc = 2601 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (60°, 4500K)

Key Measurements

Output
Total Lumen Output: 3405 lm

Peak Intensity: 2758 cd

Beam
Beam Angle (50%): 62.8°
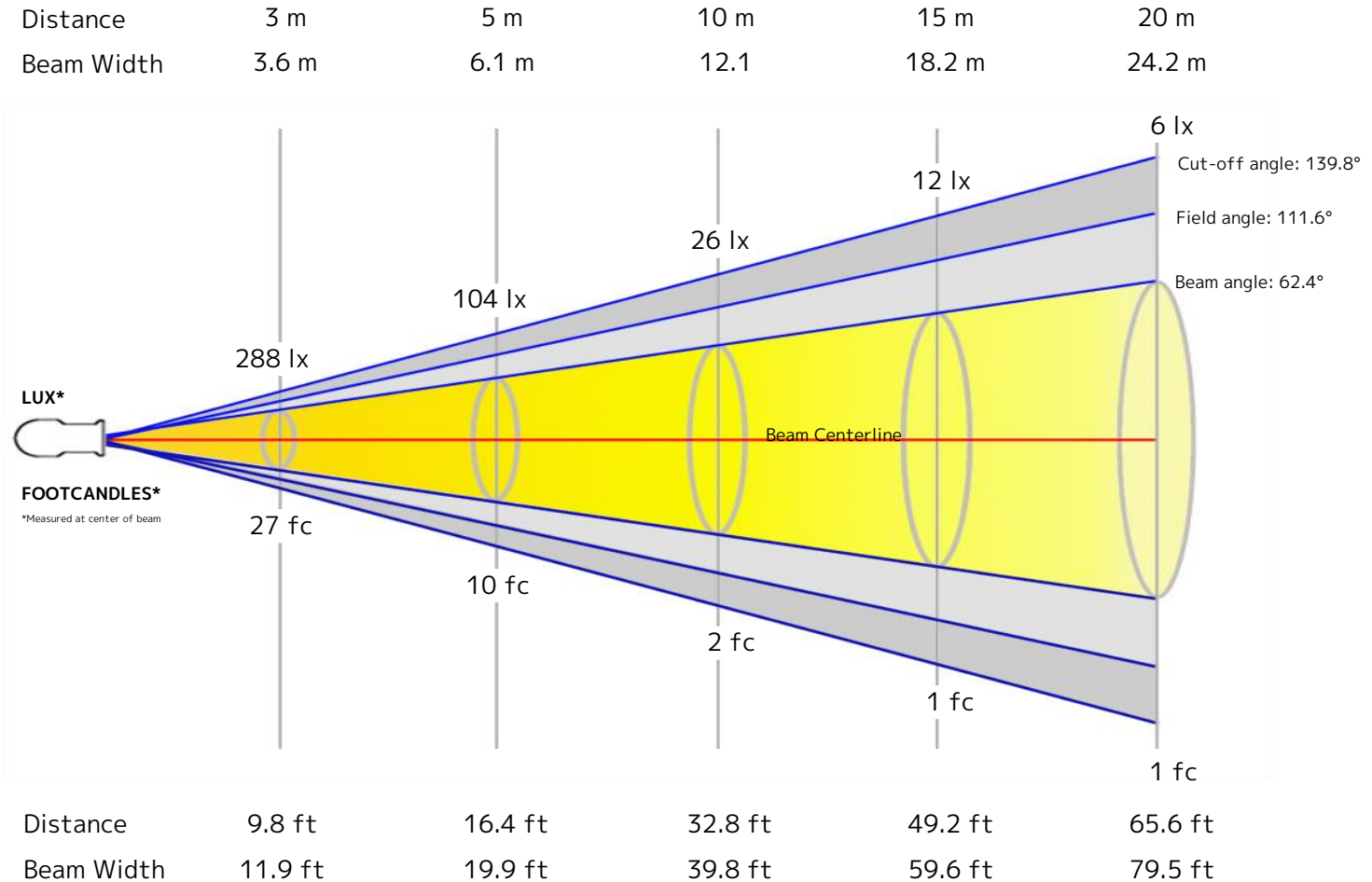
Field Angle (10%): 112.1°

Cutoff Angle (2.5%): 140.8°

Color
Color Temperature: 4458 K

CRI: 90.6

TLCI: 80

TM30 R_F: 90.6

TM30 R_g: 107.5

Power Details
Efficacy: 50 Lumen/Watt
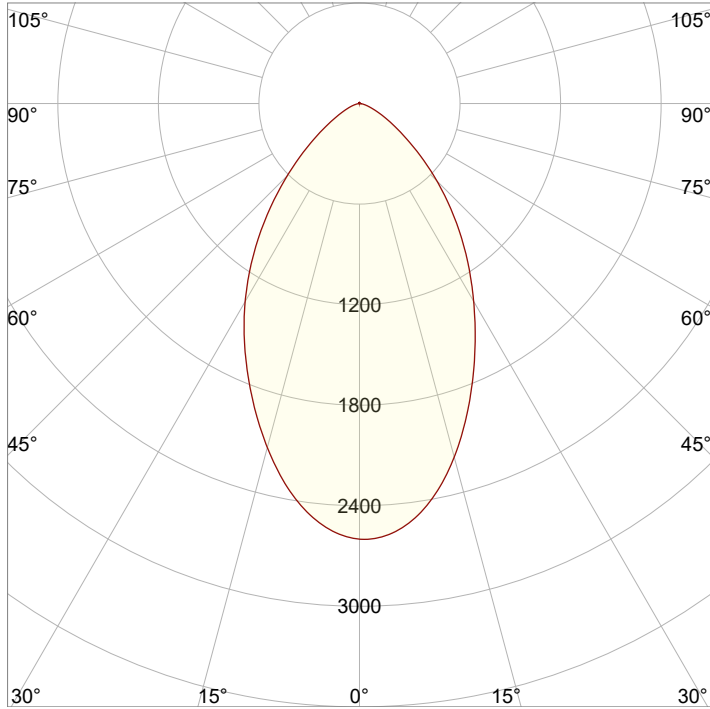
Power: 68.6 W

Supply Voltage: 119 V

Current: 0.583 A

Beam Details

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

LUX*

FOOTCANDLES*

*Measured at center of beam

306 lx · 110 lx · 28 lx · 12 lx · 7 lx
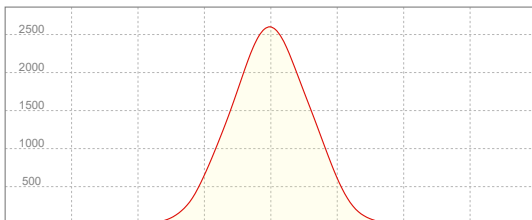
Cut-off angle: 140.8°

Field angle: 112.1°

Beam angle: 62.8°

Beam Centerline

28 fc · 10 fc · 3 fc · 1 fc · 1 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12 ft	20 ft	40.1 ft	60.1 ft	80.1 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	2751	688	306	172	110	76	56	43	34	28	23	19	16	14	12	11	10	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	255.6	63.9	28.4	16	10.2	7.1	5.2	4	3.2	2.6	2.1	1.8	1.5	1.3	1.1	1	0.9	0.8	0.7	0.6

Measurement Date: 8/19/2024

ELATION

Six+ Bar S (60°, 4500K)

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution
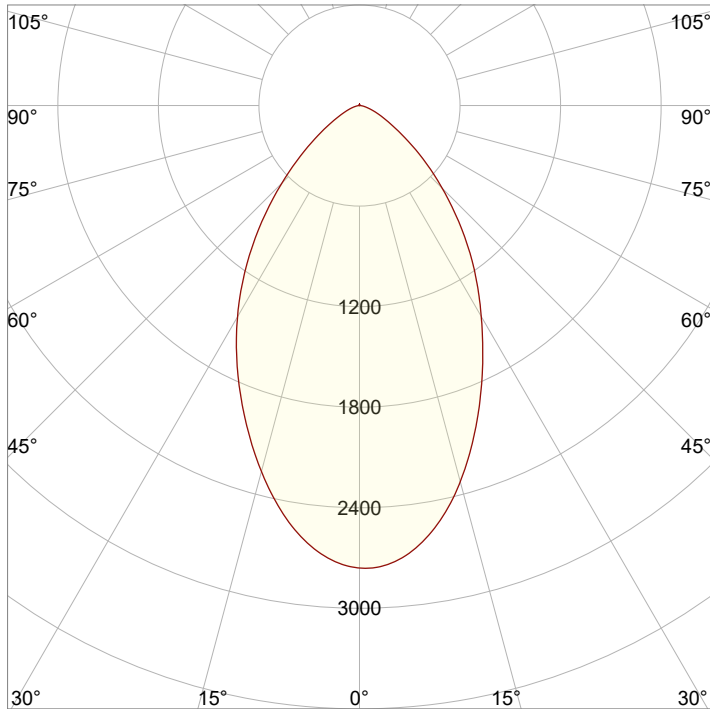
Beam Angle - 50%
62.8°
Field Angle - 10%
112.1°
Cutoff Angle - 2.5%
140.8°

ISO Diagrams
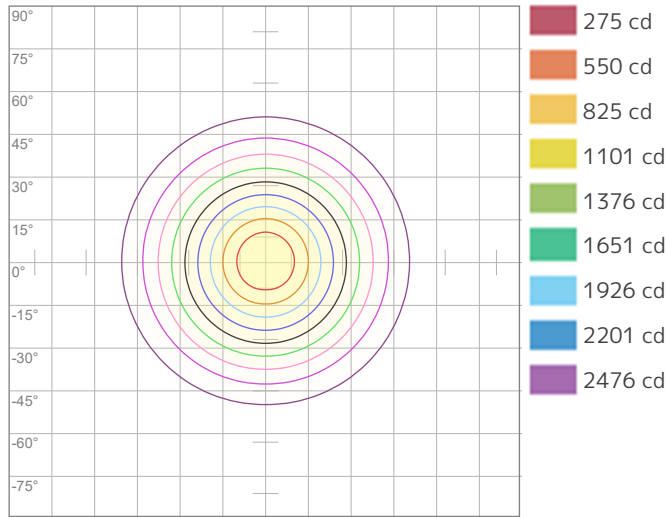
■	275 cd
■	550 cd
■	825 cd
■	1101 cd
■	1376 cd
■	1651 cd
■	1926 cd
■	2201 cd
■	2476 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2751 cd

■	0.825 lx
■	1.38 lx
■	2.75 lx
■	8.25 lx
■	13.8 lx

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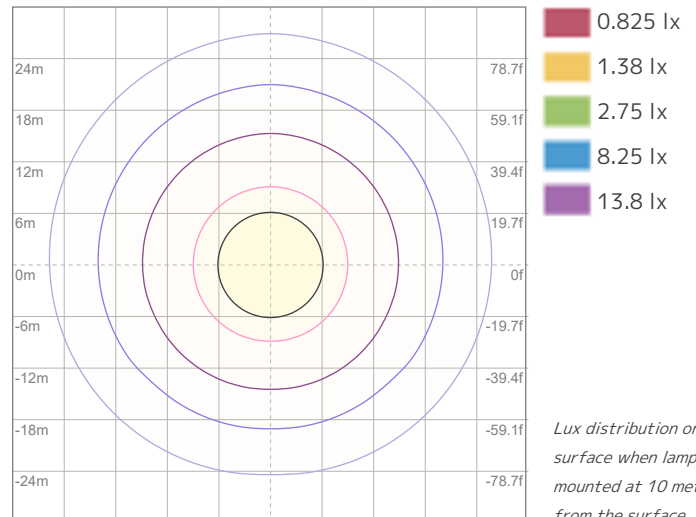
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 27.5 lx

Linear Distribution
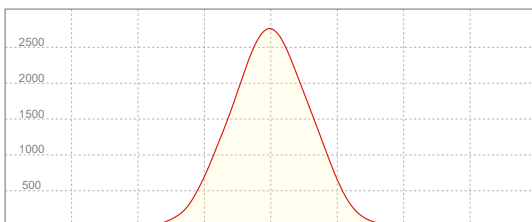
Peak Candela

2758 cd

Calculate Center Beam Intensities

$$lux = 2758 / distance(m)^2$$

$$fc = 2758 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (60°, 6500K)

ELATION

VISO SYSTEMS — Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 3511 lm

Peak Intensity: 2854 cd

Beam
Beam Angle (50%): 62.8°

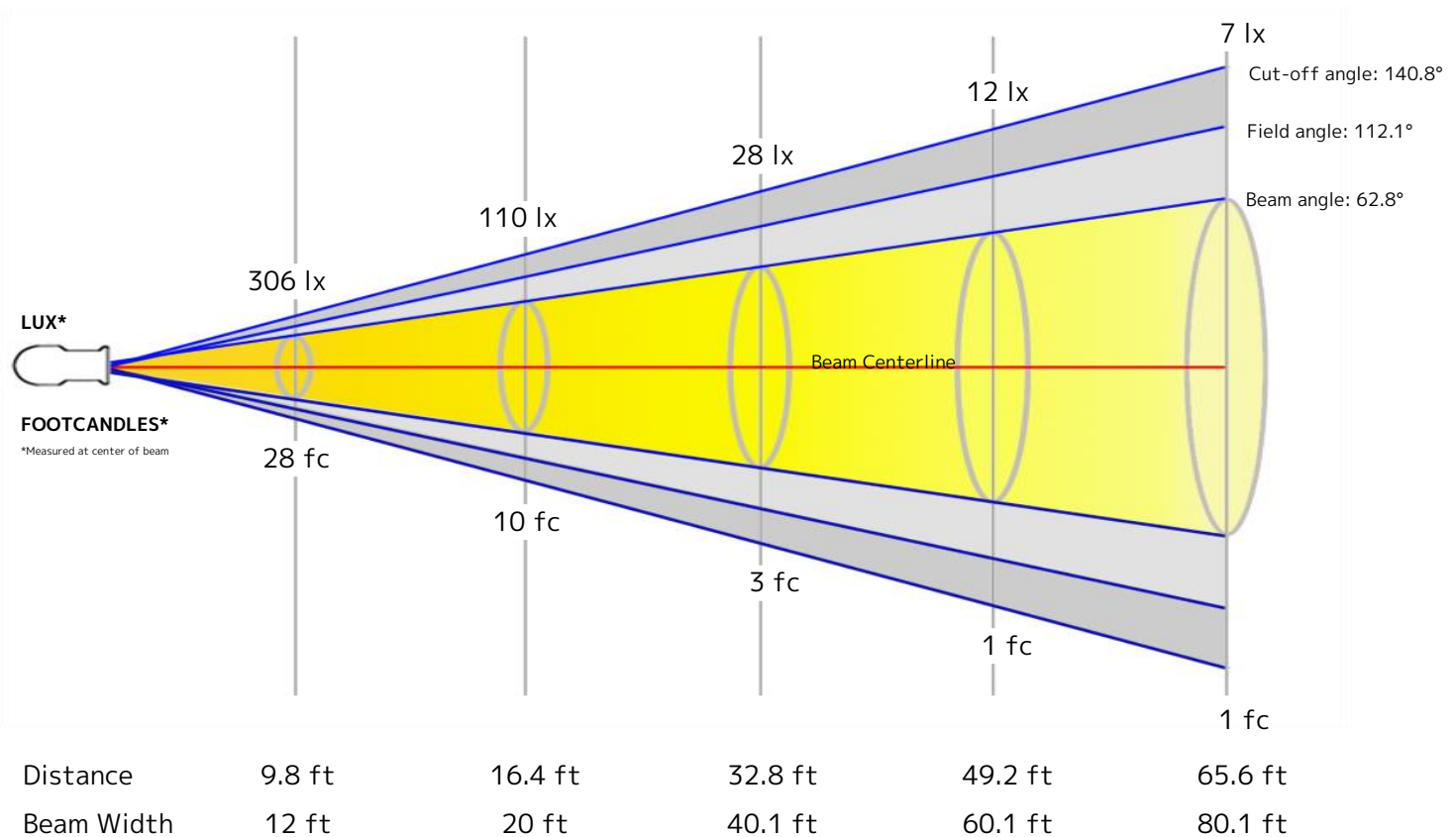Field Angle (10%): 112.2°

Cutoff Angle (2.5%): 140°

Color
Color Temperature: 6443 K

CRI: 88.9

TLCI: 83

TM30 R_F: 88.5

TM30 R_g: 106.9

Power Details
Efficacy: 48 Lumen/Watt

Power: 73.3 W

Supply Voltage: 119 V

Current: 0.624 A

Beam Details

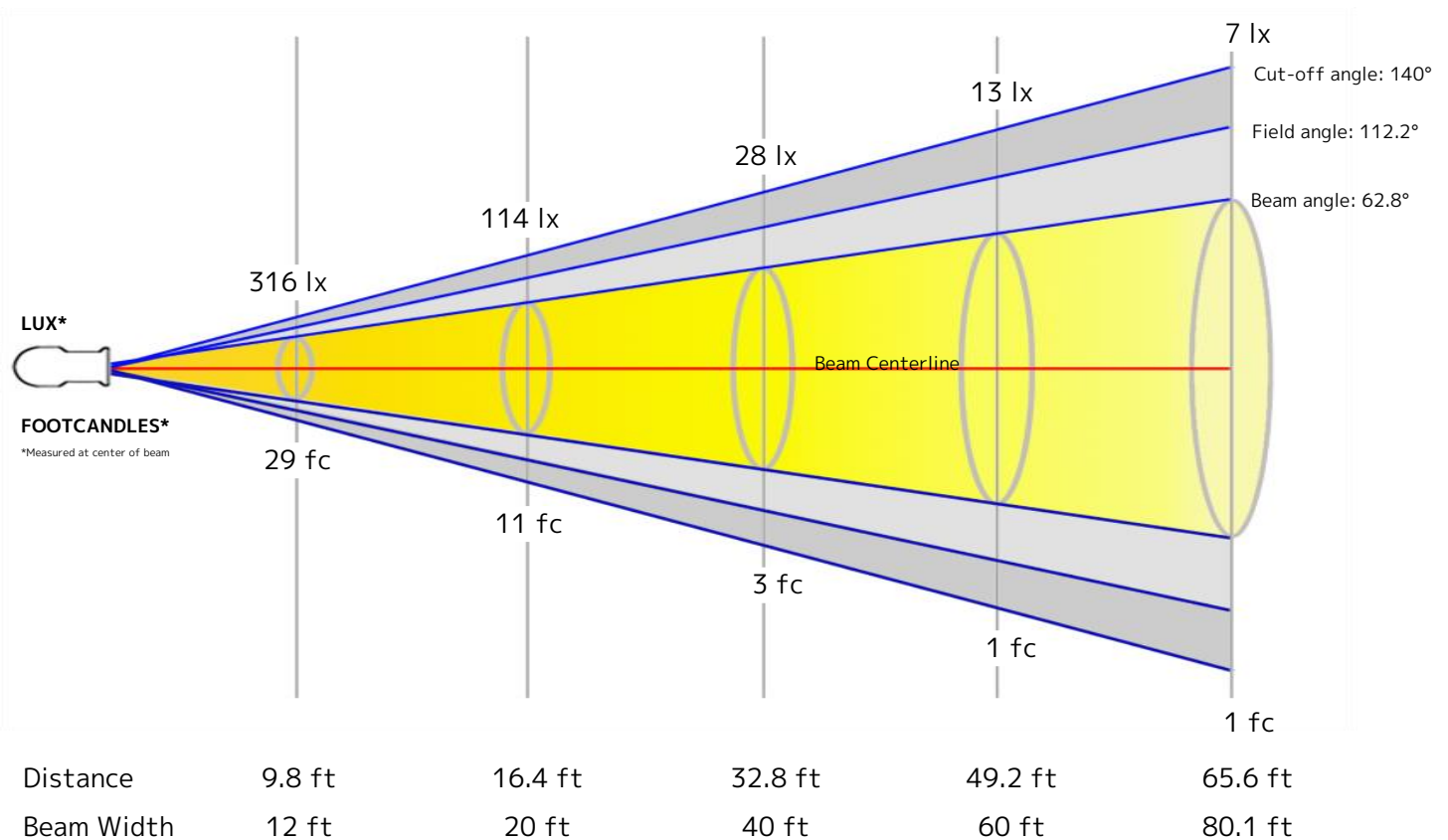| Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	3.7 m	6.1 m	12.2	18.3 m	24.4 m

LUX*

FOOTCANDLES*

*Measured at center of beam

7 lx

Cut-off angle: 140°

13 lx

Field angle: 112.2°

28 lx

Beam angle: 62.8°

114 lx

316 lx

Beam Centerline

29 fc

11 fc

3 fc

1 fc

1 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	12 ft	20 ft	40 ft	60 ft	80.1 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	2847	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: 8/19/2024

Elation

Six+ Bar S (60°, 6500K)

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution

Beam Angle - 50%
62.8°
Field Angle - 10%
112.2°
Cutoff Angle - 2.5%
140°

ISO Diagrams

	cd
	285 cd
	569 cd
	854 cd
	1139 cd
	1423 cd
	1708 cd
	1993 cd
	2277 cd
	2562 cd

ISO Candela Diagram

	lx
	0.854 lx
	1.42 lx
	2.85 lx
	8.54 lx
	14.2 lx

ISO LUX Diagram

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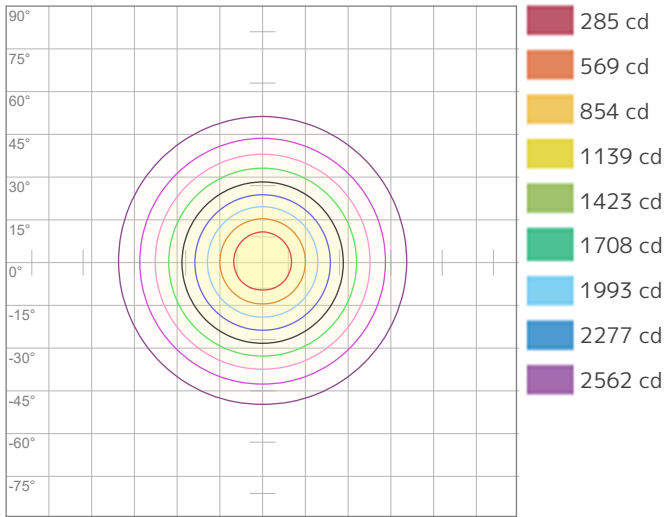
Conditions:

Number of c-planes: 2

Candela at center: 2847 cd

Conditions:

Number of c-planes: 2

LUX at center: 28.5 lx

Linear Distribution
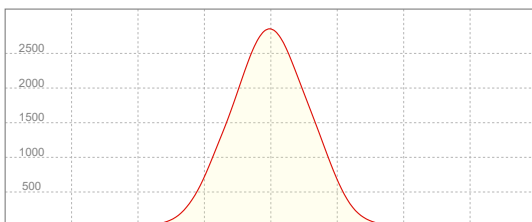
Peak Candela

2854 cd

Calculate Center Beam Intensities

$$lux = 2854 / distance(m)^2$$

$$fc = 2854 / distance(ft)^2$$

Measurement Date: 8/19/2024

Six+ Bar S (60°, 8500K)

Key Measurements

Output

Total Lumen Output: 3537 lm

Peak Intensity: 2823 cd

Beam

Beam Angle (50%): 63.3°

Field Angle (10%): 113.3°

Cutoff Angle (2.5%): 141.5°

Color

Color Temperature: 8487 K

CRI: 87.8

TLCI: 83

TM30 R_F: 86.8

TM30 R_g: 105.3

Power Details

Efficacy: 48 Lumen/Watt

Power: 74.1 W
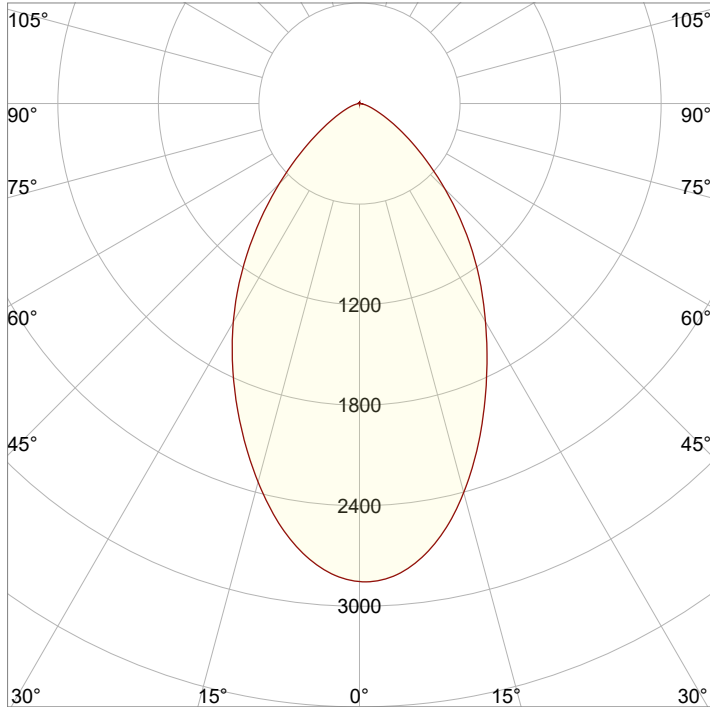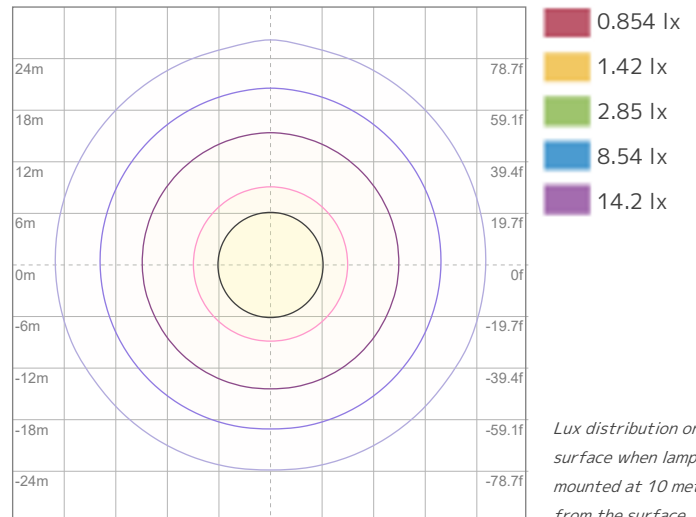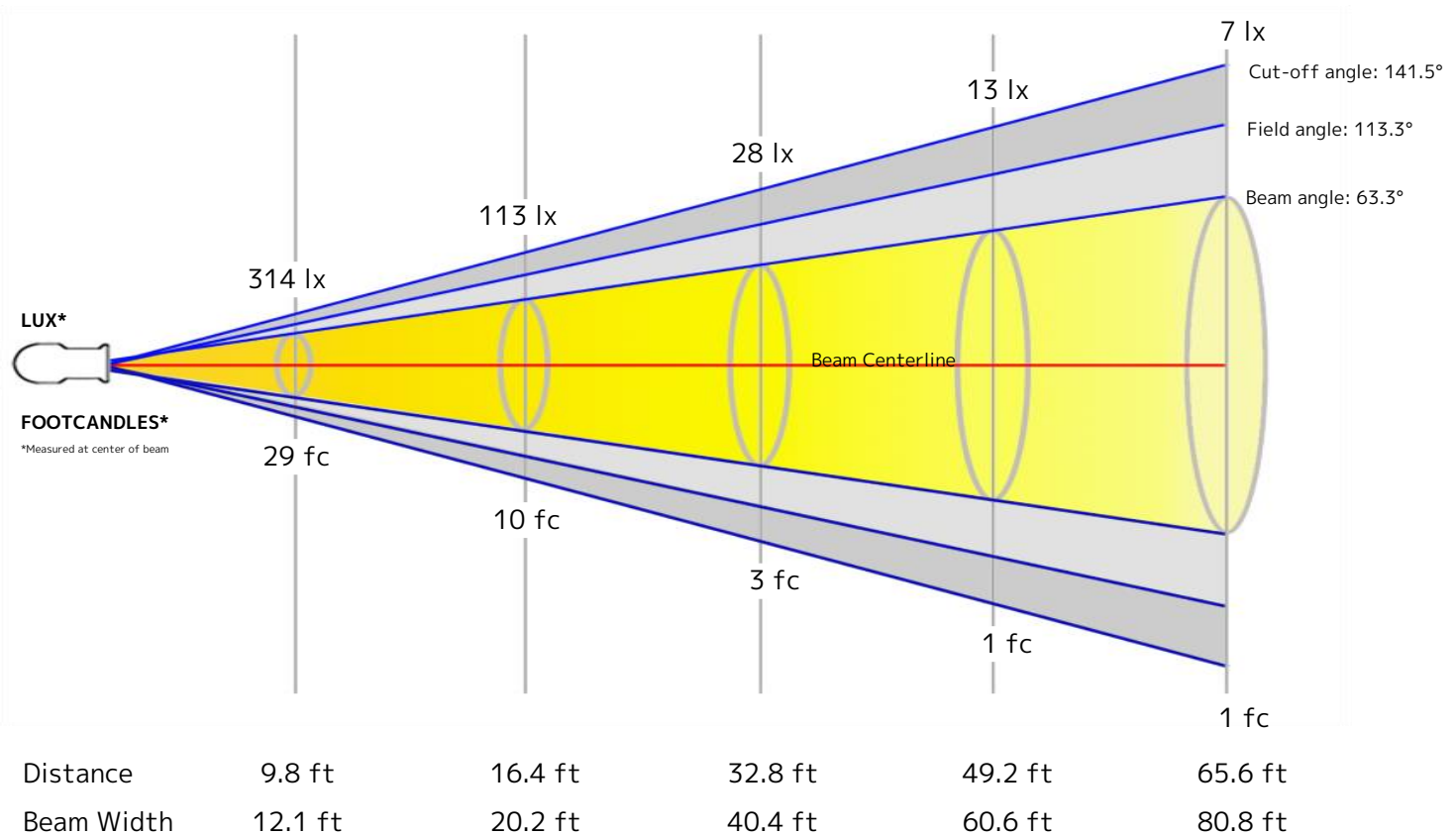
Supply Voltage: 119 V

Current: 0.630 A

Beam Details

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

LUX*

FOOTCANDLES*

*Measured at center of beam

314 lx

113 lx

28 lx

13 lx

7 lx

29 fc

10 fc

3 fc

1 fc

1 fc

Cut-off angle: 141.5°

Field angle: 113.3°

Beam angle: 63.3°

Beam Centerline

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

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	2822	706	314	176	113	78	58	44	35	28	23	20	17	14	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	262.2	65.5	29.1	16.4	10.5	7.3	5.4	4.1	3.2	2.6	2.2	1.8	1.6	1.3	1.2	1	0.9	0.8	0.7	0.7

Measurement Date: 8/19/2024

Angular Distribution

Beam Angle - 50%
63.3°
Field Angle - 10%
113.3°
Cutoff Angle - 2.5%
141.5°

ISO Diagrams
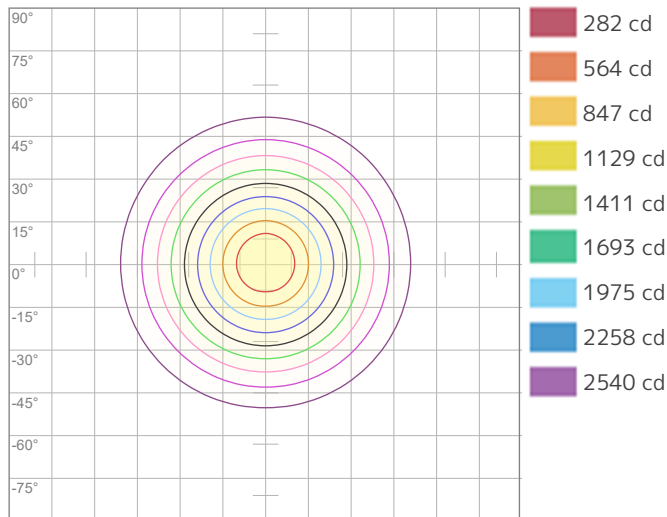
	cd
🟥	282 cd
🟧	564 cd
🟨	847 cd
🟡	1129 cd
🟩	1411 cd
🟢	1693 cd
🔵	1975 cd
🟦	2258 cd
🟪	2540 cd

ISO Candela Diagram

	lx
🟥	0.847 lx
🟧	1.41 lx
🟩	2.82 lx
🟦	8.47 lx
🟪	14.1 lx

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

ISO LUX Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2822 cd

Conditions:

Number of c-planes: 2

LUX at center: 28.2 lx

Linear Distribution

Peak Candela
2823 cd

Calculate Center Beam Intensities

$$lux = 2823 / distance(m)^2$$

$$fc = 2823 / distance(ft)^2$$

Measurement Date: 8/19/2024

Elation Six+ Bar S (100°, Full Output, No UV)
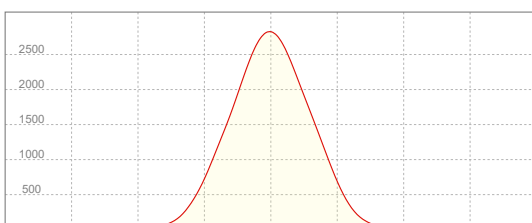
Key Measurements

Output
Total Lumen Output: 3750 lm

Peak Intensity: 2145 cd

Beam
Beam Angle (50%): 84.1°

Field Angle (10%): 118.9°

Cutoff Angle (2.5%): 149.5°

Color
Color Temperature: 6904 K

CRI: 67.1

TLCI: 76

TM30 R_F: 78.0

TM30 R_g: 120.9

Power Details
Efficacy: 42 Lumen/Watt

Power: 89.6 W

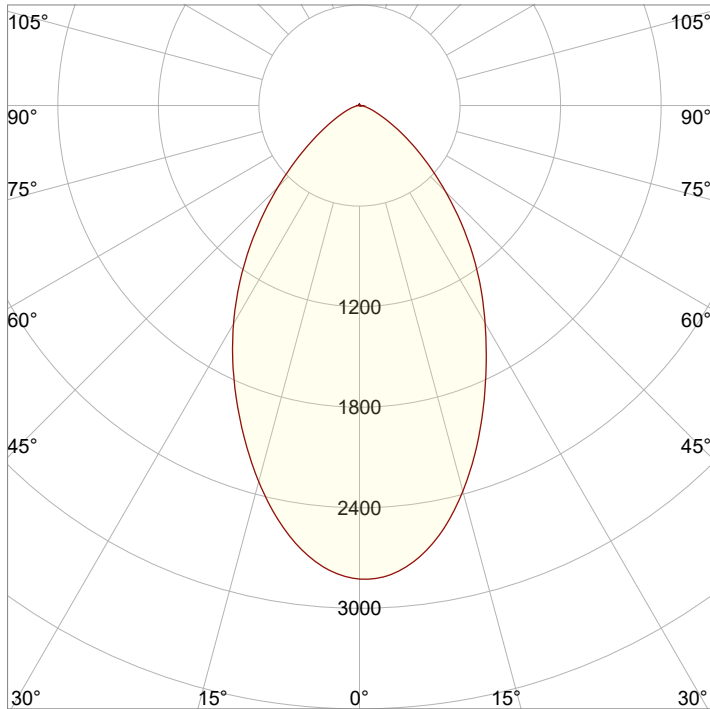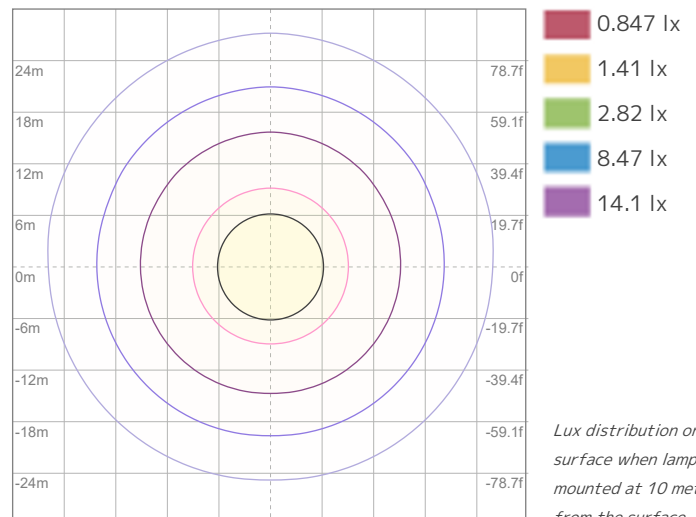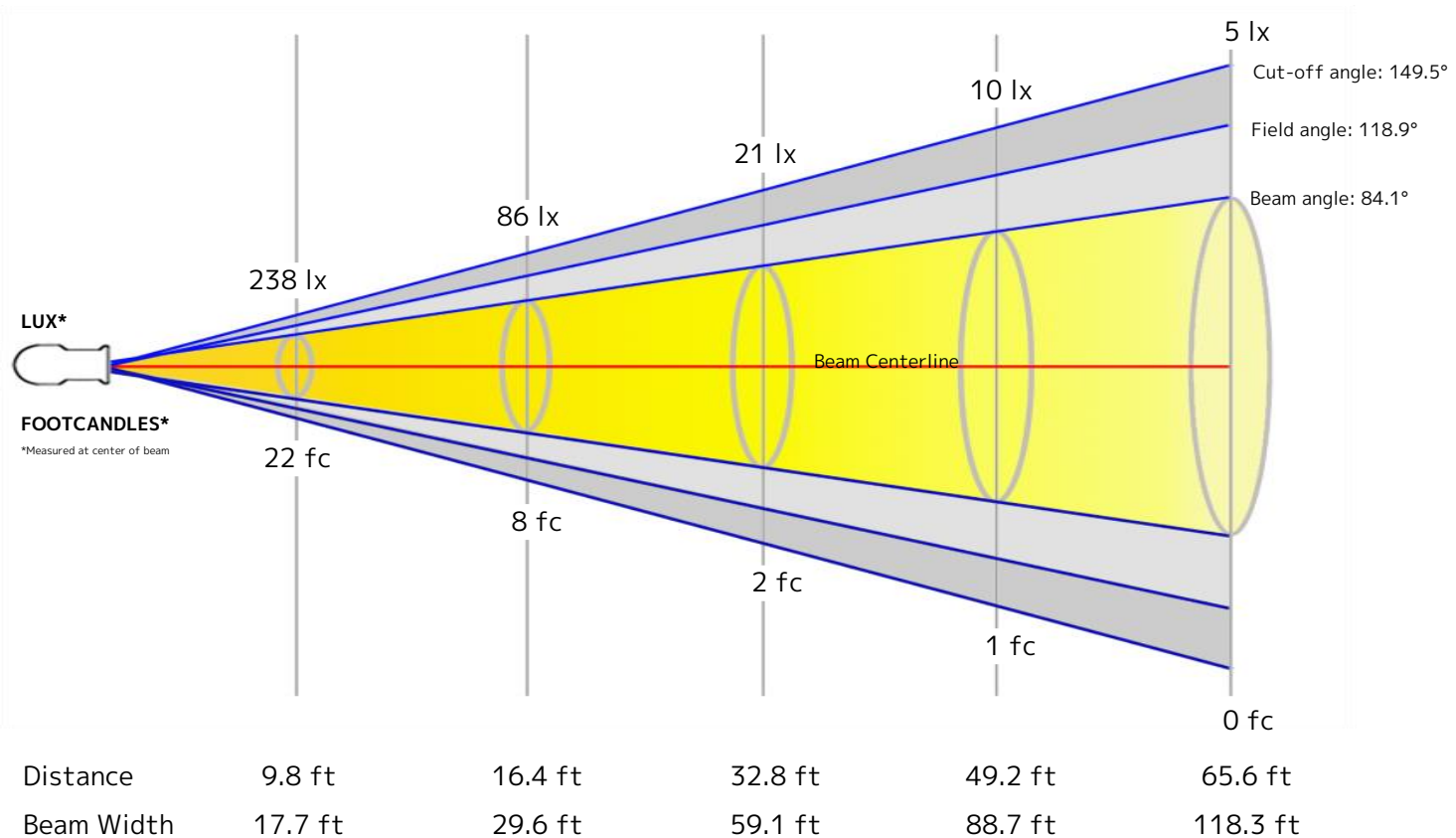Supply Voltage: 119 V

Current: 0.758 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.4 m	9 m	18 m	27 m	36.1 m

LUX*

FOOTCANDLES*

*Measured at center of beam

238 lx · 86 lx · 21 lx · 10 lx · 5 lx

22 fc · 8 fc · 2 fc · 1 fc · 0 fc

Cut-off angle: 149.5°

Field angle: 118.9°

Beam angle: 84.1°

Beam Centerline

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.7 ft	29.6 ft	59.1 ft	88.7 ft	118.3 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	2139	535	238	134	86	59	44	33	26	21	18	15	13	11	10	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	198.7	49.7	22.1	12.4	7.9	5.5	4.1	3.1	2.5	2	1.6	1.4	1.2	1	0.9	0.8	0.7	0.6	0.6	0.5

33

Measurement Date: 8/15/2024

Angular Distribution
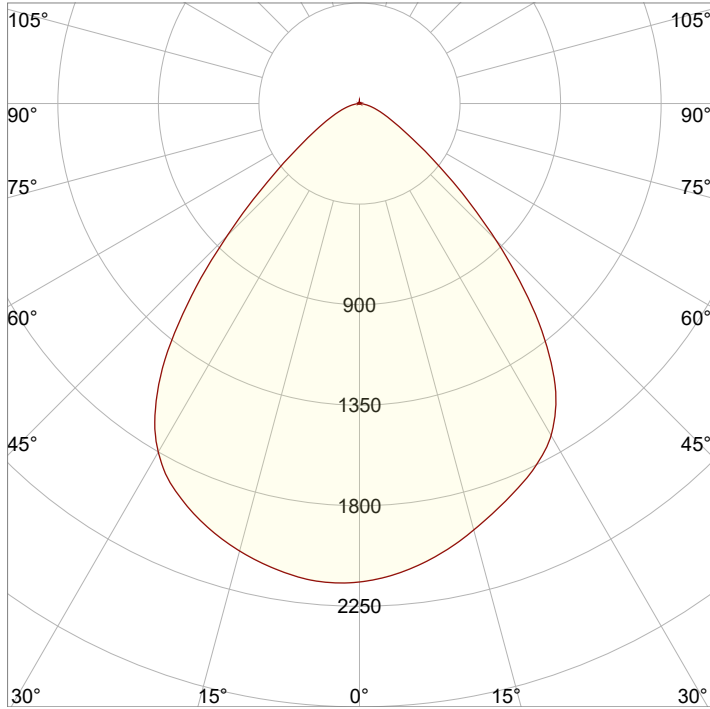
Beam Angle - 50%
84.1°
Field Angle - 10%
118.9°
Cutoff Angle - 2.5%
149.5°

ISO Diagrams
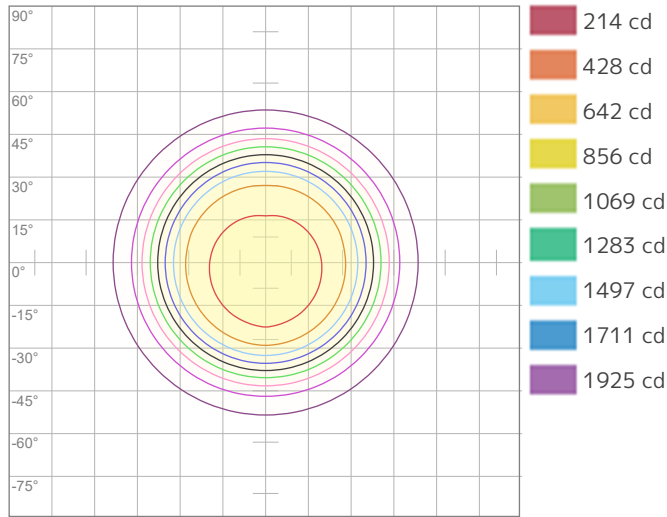
🟥	214 cd
🟧	428 cd
🟨	642 cd
🟨	856 cd
🟩	1069 cd
🟩	1283 cd
🟦	1497 cd
🟦	1711 cd
🟪	1925 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 2139 cd

🟥	0.642 lx
🟧	1.07 lx
🟩	2.14 lx
🟦	6.42 lx
🟪	10.7 lx
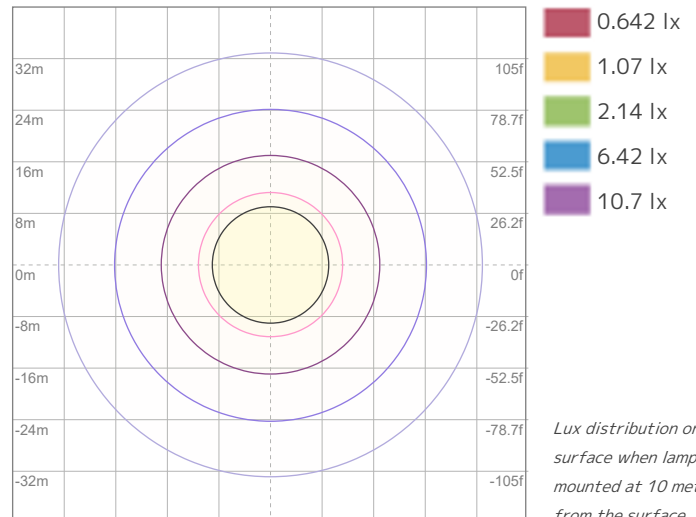
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 21.4 lx

Linear Distribution
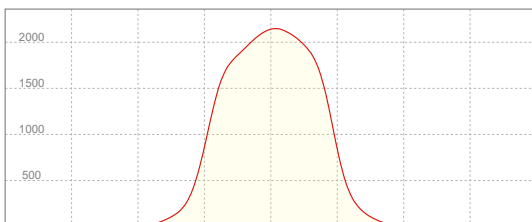
Peak Candela

2145 cd

Calculate Center Beam Intensities

$$lux = 2145 / distance(m)^2$$

$$fc = 2145 / distance(ft)^2$$

Measurement Date: 8/15/2024

Six+ Bar S (100°, Full Output)

ELATION®

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3394 lm

Peak Intensity: 1935 cd

Beam

Beam Angle (50%): 84.1°

Field Angle (10%): 118.8°

Cutoff Angle (2.5%): 150.3°

Color

Color Temperature: 7733 K

CRI: 67.5

TLCI: 77

TM30 R_F: 77.3

TM30 R_g: 120.0

Power Details

Efficacy: 36 Lumen/Watt

Power: 95.1 W

Supply Voltage: 118 V

Current: 0.807 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.4 m	9 m	18 m	27.1 m	36.1 m

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.7 ft	29.6 ft	59.2 ft	88.8 ft	118.3 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	1930	483	214	121	77	54	39	30	24	19	16	13	11	10	9	8	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	179.3	44.8	19.9	11.2	7.2	5	3.7	2.8	2.2	1.8	1.5	1.2	1.1	0.9	0.8	0.7	0.6	0.6	0.5	0.4

Measurement Date: 8/15/2024

VISO SYSTEMS
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Angular Distribution

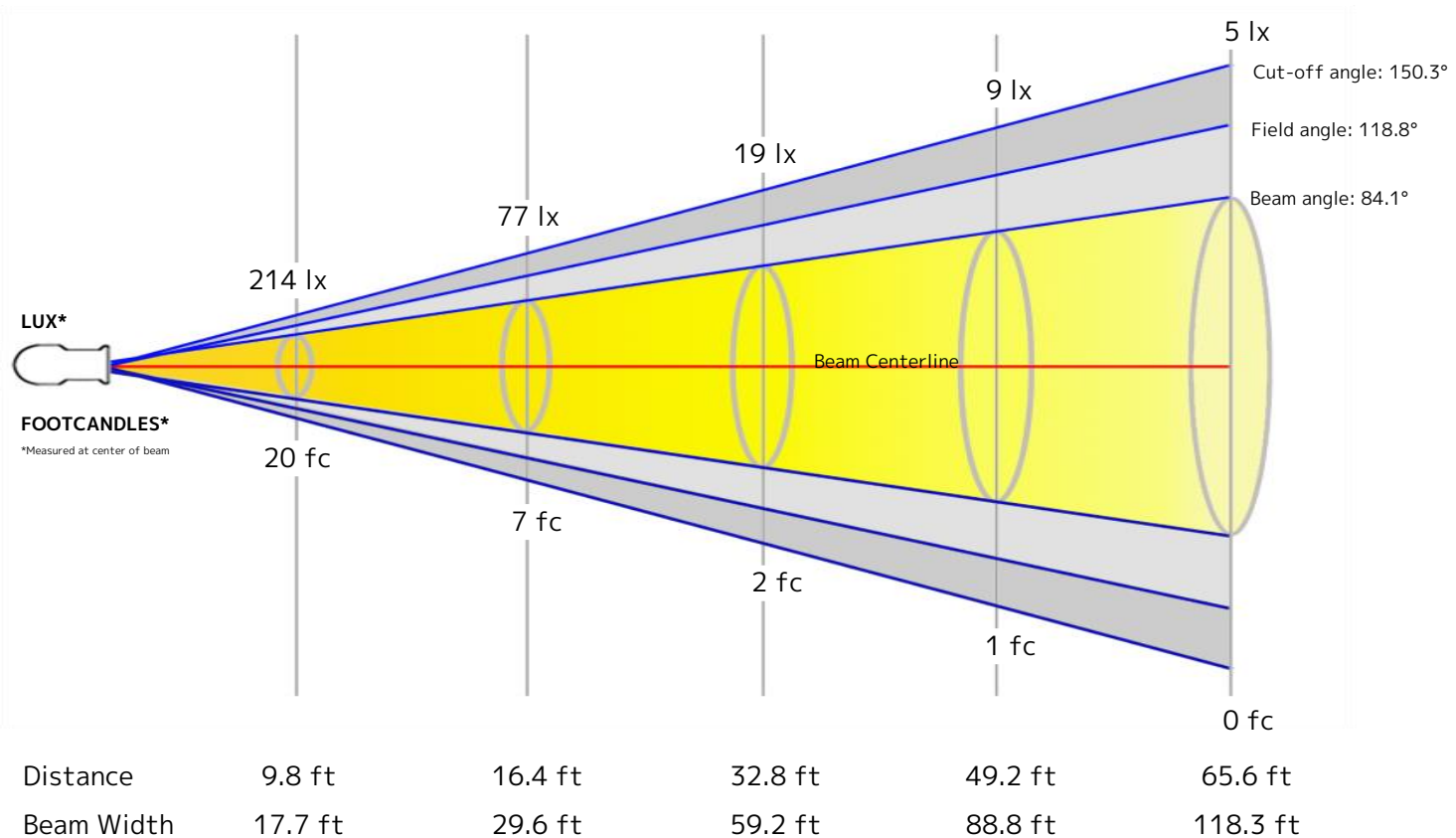| Beam Angle - 50% |
|:---:|
| 84.1° |
| Field Angle - 10% |
| 118.8° |
| Cutoff Angle - 2.5% |
| 150.3° |

ISO Diagrams
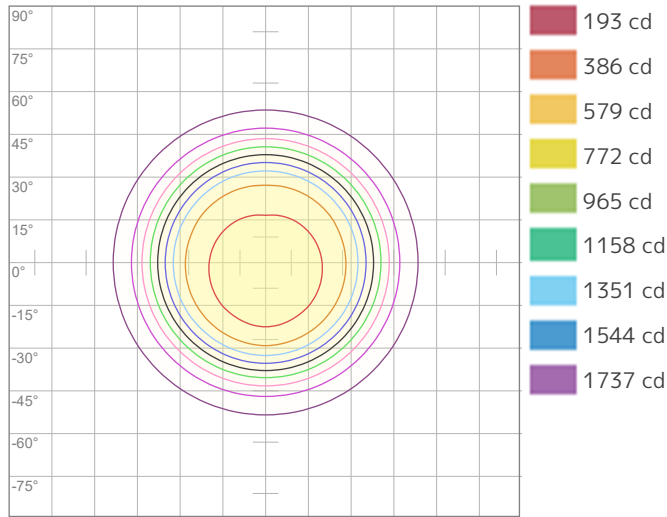
■	193 cd
■	386 cd
■	579 cd
■	772 cd
■	965 cd
■	1158 cd
■	1351 cd
■	1544 cd
■	1737 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1930 cd

■	0.579 lx
■	0.965 lx
■	1.93 lx
■	5.79 lx
■	9.65 lx
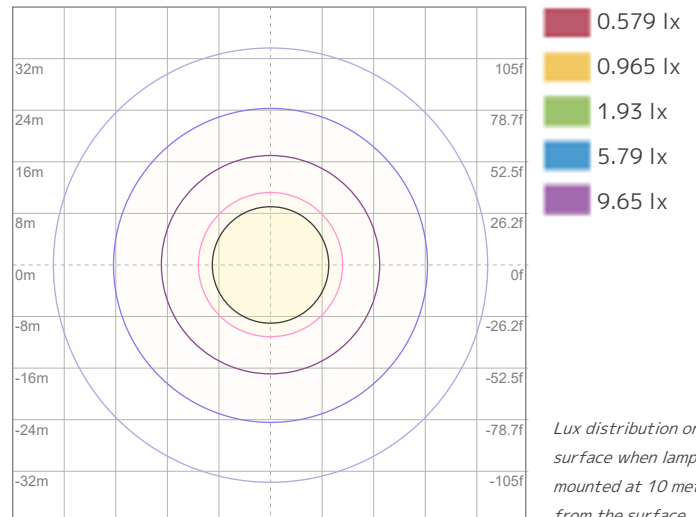
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 19.3 lx

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

Linear Distribution
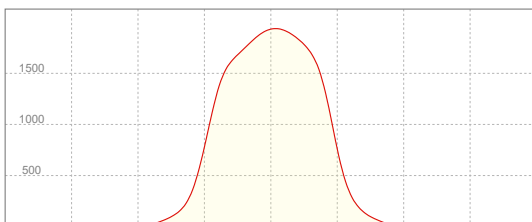
Peak Candela

1935 cd

Calculate Center Beam Intensities

$$lux = 1935 / distance(m)^2$$

$$fc = 1935 / distance(ft)^2$$

Measurement Date: 8/15/2024

Six+ Bar S (100°, 2400K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 2161 lm

Peak Intensity: 1245 cd

Beam
Beam Angle (50%): 83.7°

Field Angle (10%): 118.1°

Cutoff Angle (2.5%): 149.1°

Color
Color Temperature: 2402 K

CRI: 84.7

TLCI: 73

TM30 R_F: 87.8

TM30 R_g: 109.3

Power Details
Efficacy: 42 Lumen/Watt

Power: 51.8 W
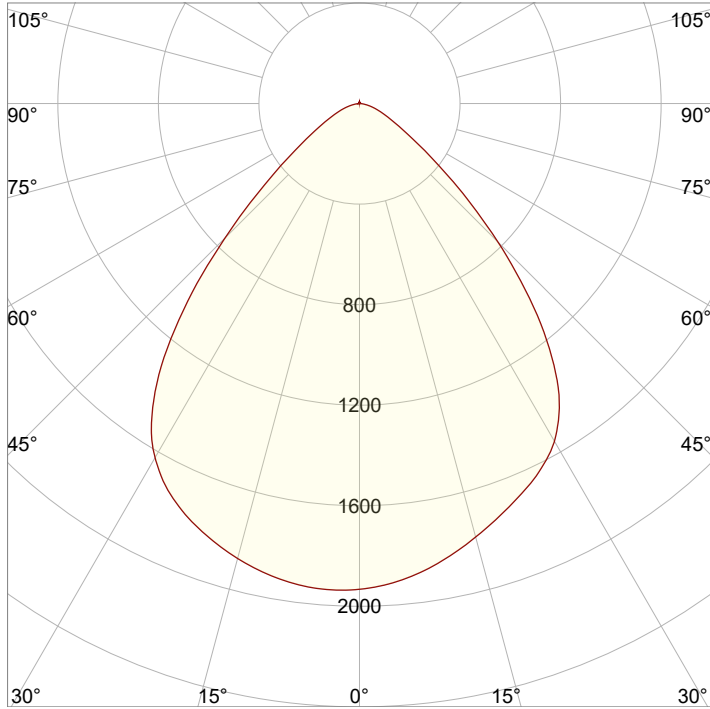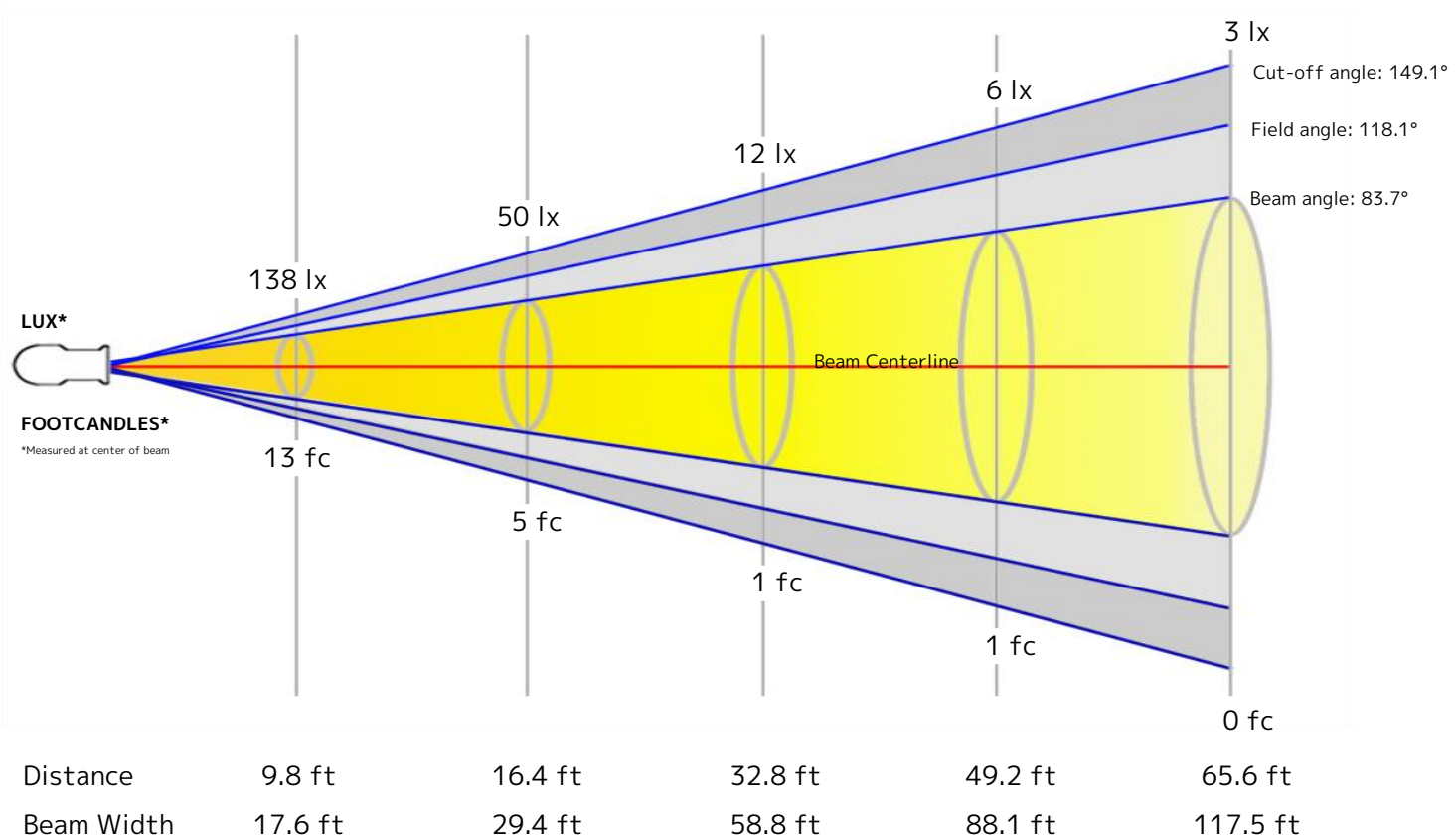
Supply Voltage: 119 V

Current: 0.451 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.4 m	9 m	17.9	26.9 m	35.8 m

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.6 ft	29.4 ft	58.8 ft	88.1 ft	117.5 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	1242	310	138	78	50	34	25	19	15	12	10	9	7	6	6	5	4	4	3	3
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	115.4	28.8	12.8	7.2	4.6	3.2	2.4	1.8	1.4	1.2	1	0.8	0.7	0.6	0.5	0.5	0.4	0.4	0.3	0.3

Measurement Date: 8/15/2024

Angular Distribution
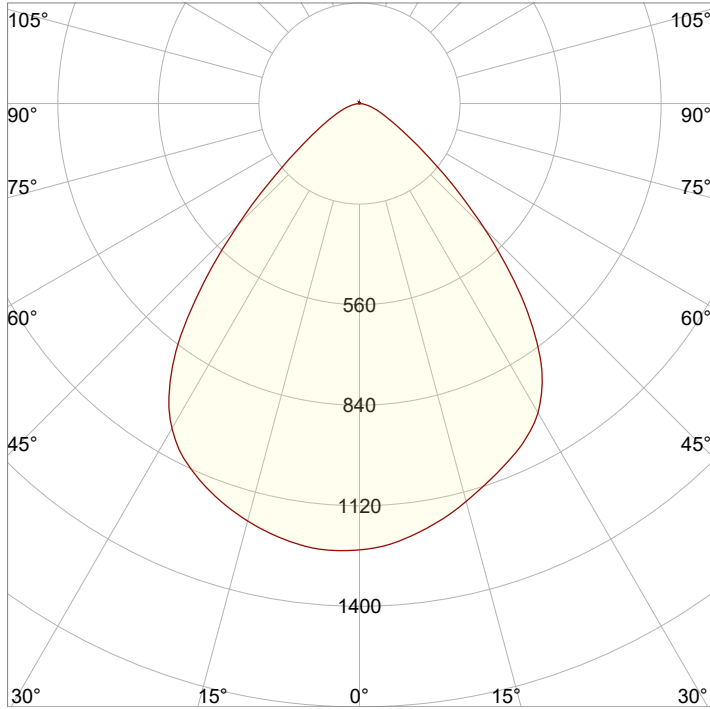
Beam Angle - 50%
83.7°
Field Angle - 10%
118.1°
Cutoff Angle - 2.5%
149.1°

ISO Diagrams
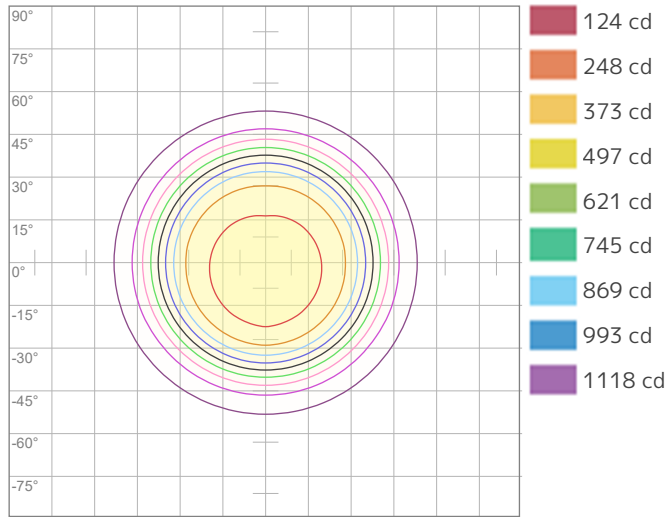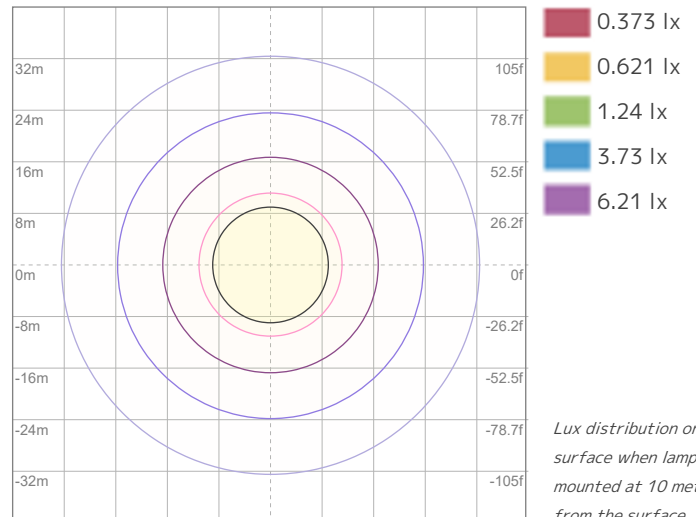
■	124 cd
■	248 cd
■	373 cd
■	497 cd
■	621 cd
■	745 cd
■	869 cd
■	993 cd
■	1118 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1242 cd

■	0.373 lx
■	0.621 lx
■	1.24 lx
■	3.73 lx
■	6.21 lx

ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 12.4 lx

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

Linear Distribution
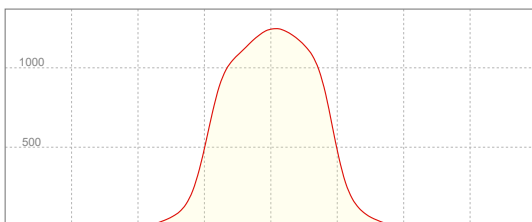
Peak Candela

1245 cd

Calculate Center Beam Intensities

$$lux = 1245 / distance(m)^2$$

$$fc = 1245 / distance(ft)^2$$

Measurement Date: 8/15/2024

Six+ Bar S (100°, 3200K)

Key Measurements

Output

Total Lumen Output: 2938 lm

Peak Intensity: 1686 cd

Beam

Beam Angle (50%): 83.9°

Field Angle (10%): 118.6°

Cutoff Angle (2.5%): 149.9°

Color

Color Temperature: 3153 K

CRI: 89.6

TLCI: 80

TM30 R_F: 91.0

TM30 R_g: 108.2

Power Details

Efficacy: 46 Lumen/Watt

Power: 63.9 W

Supply Voltage: 119 V
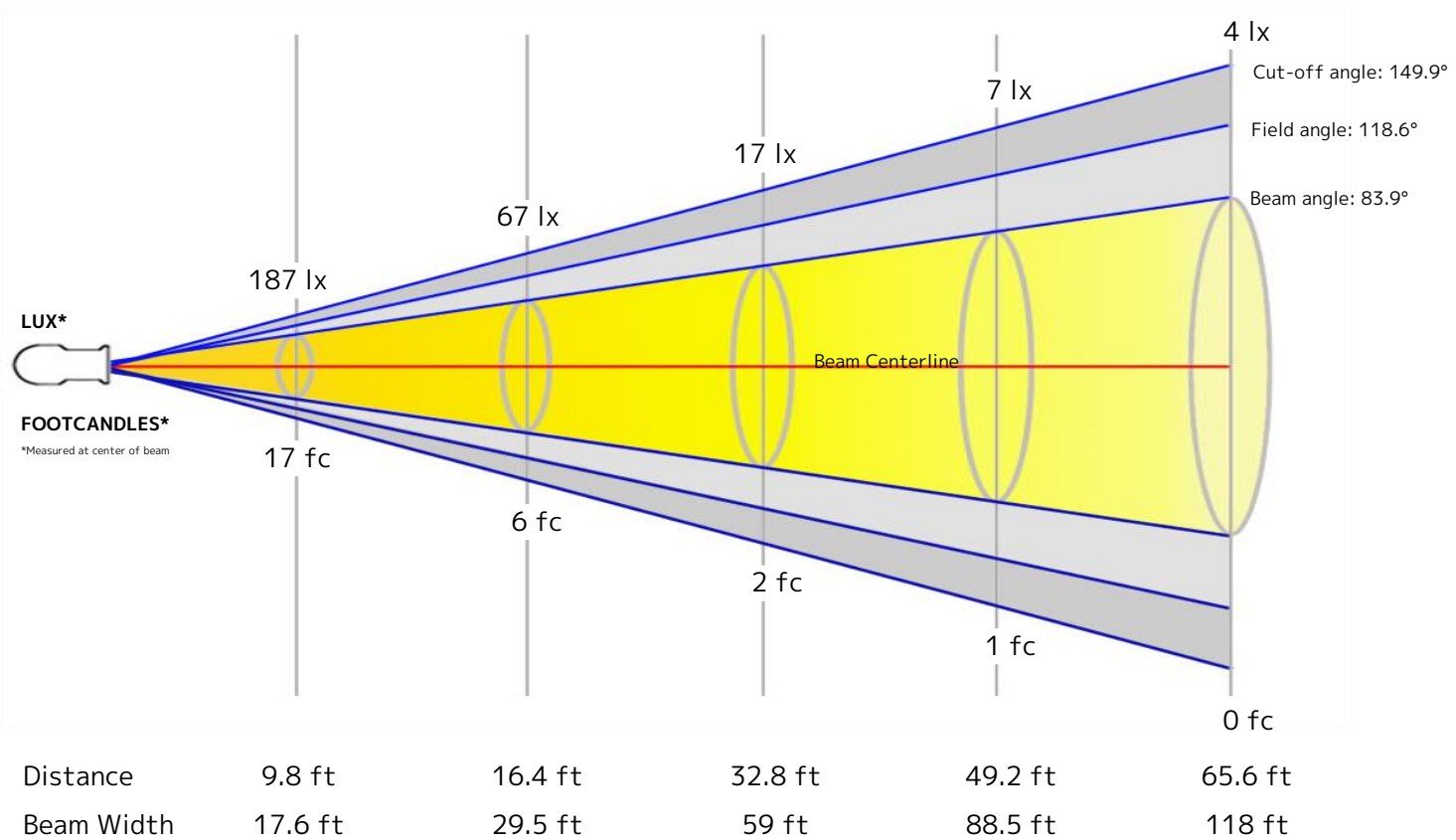
Current: 0.546 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.4 m	9 m	18 m	27 m	36 m

LUX*

FOOTCANDLES*

*Measured at center of beam

4 lx

Cut-off angle: 149.9°

7 lx

Field angle: 118.6°

17 lx

Beam angle: 83.9°

67 lx

187 lx

17 fc

6 fc

2 fc

1 fc

0 fc

Beam Centerline

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.6 ft	29.5 ft	59 ft	88.5 ft	118 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	1681	420	187	105	67	47	34	26	21	17	14	12	10	9	7	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	156.2	39.1	17.4	9.8	6.2	4.3	3.2	2.4	1.9	1.6	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4

Measurement Date: 8/15/2024

Six+ Bar S (100°, 3200K)

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution

Beam Angle - 50%
83.9°
Field Angle - 10%
118.6°
Cutoff Angle - 2.5%
149.9°

ISO Diagrams
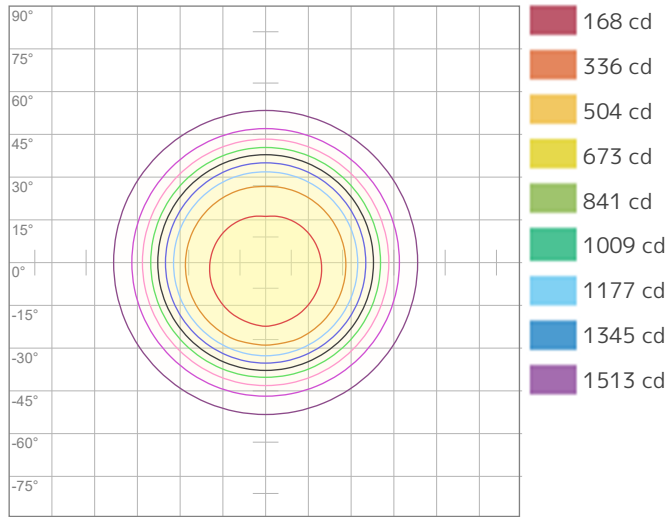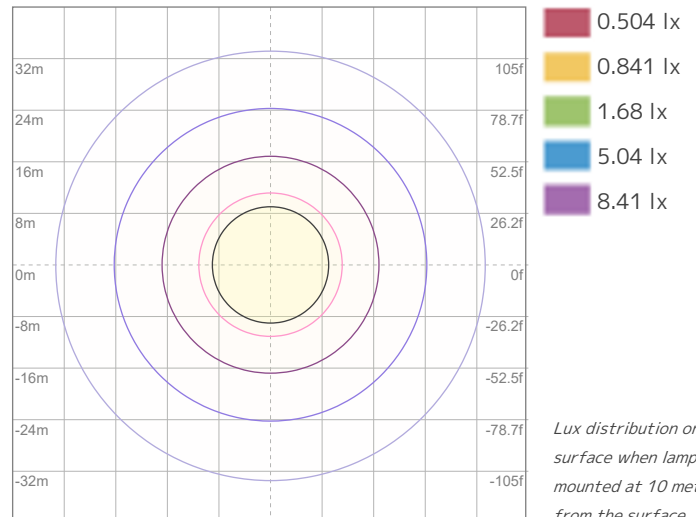
	168 cd
	336 cd
	504 cd
	673 cd
	841 cd
	1009 cd
	1177 cd
	1345 cd
	1513 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1681 cd

	0.504 lx
	0.841 lx
	1.68 lx
	5.04 lx
	8.41 lx

ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 16.8 lx

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

Linear Distribution
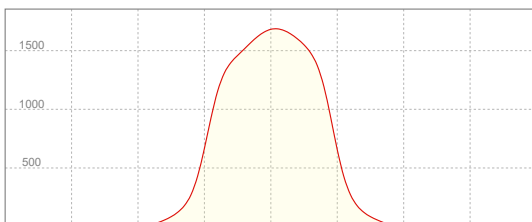
Peak Candela

1686 cd

Calculate Center Beam Intensities

$$lux = 1686 / distance(m)^2$$

$$fc = 1686 / distance(ft)^2$$

Measurement Date: 8/15/2024

Six+ Bar S (100°, 4500K)

Key Measurements

Output

Total Lumen Output: 3116 lm

Peak Intensity: 1776 cd

Beam

Beam Angle (50%): 84.1°

Field Angle (10%): 118.9°

Cutoff Angle (2.5%): 150.6°

Color

Color Temperature: 4455 K

CRI: 90.9

TLCI: 82

TM30 R_F: 90.5

TM30 R_g: 107.6

Power Details

Efficacy: 47 Lumen/Watt

Power: 66.9 W

Supply Voltage: 118 V
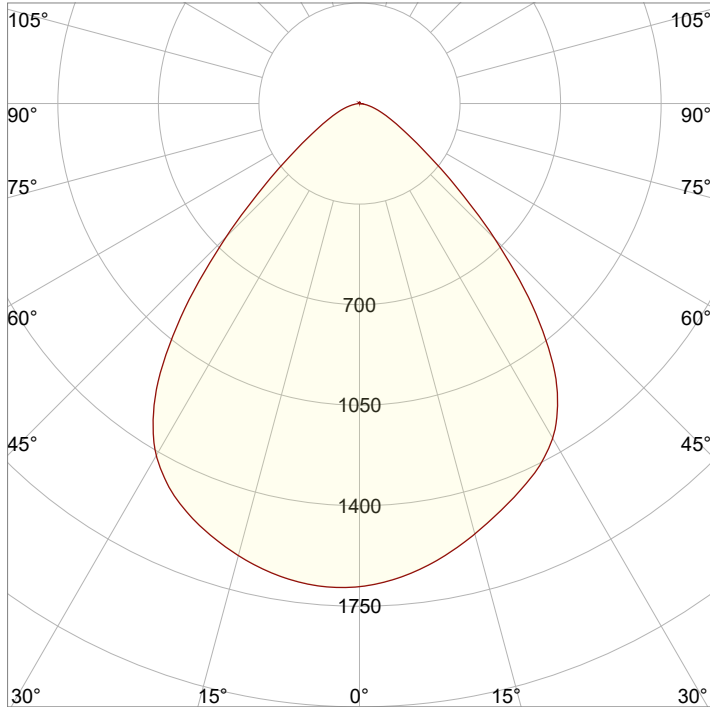
Current: 0.575 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.4 m	9 m	18 m	27 m	36.1 m

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.7 ft	29.6 ft	59.1 ft	88.7 ft	118.2 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	1771	443	197	111	71	49	36	28	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	164.5	41.1	18.3	10.3	6.6	4.6	3.4	2.6	2	1.6	1.4	1.1	1	0.8	0.7	0.6	0.6	0.5	0.5	0.4

Elation

Six+ Bar S (100°, 4500K)

Angular Distribution
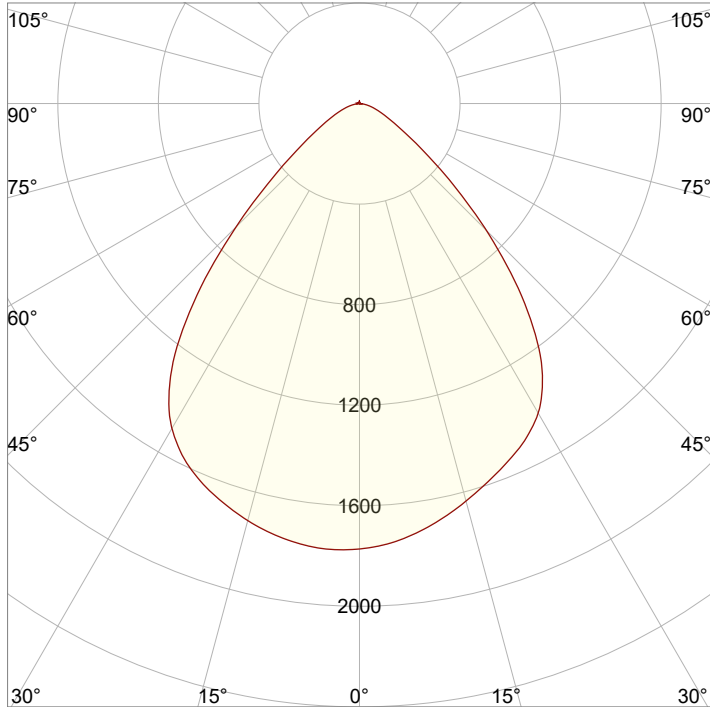
Beam Angle - 50%
84.1°
Field Angle - 10%
118.9°
Cutoff Angle - 2.5%
150.6°

ISO Diagrams
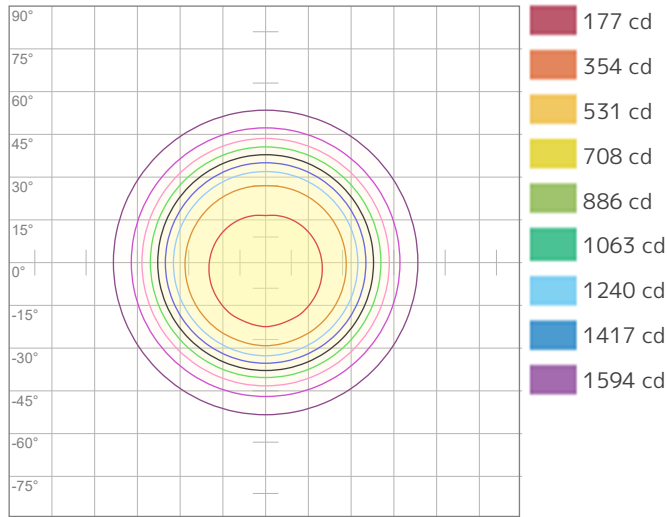
■	177 cd
■	354 cd
■	531 cd
■	708 cd
■	886 cd
■	1063 cd
■	1240 cd
■	1417 cd
■	1594 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1771 cd

■	0.531 lx
■	0.886 lx
■	1.77 lx
■	5.31 lx
■	8.86 lx
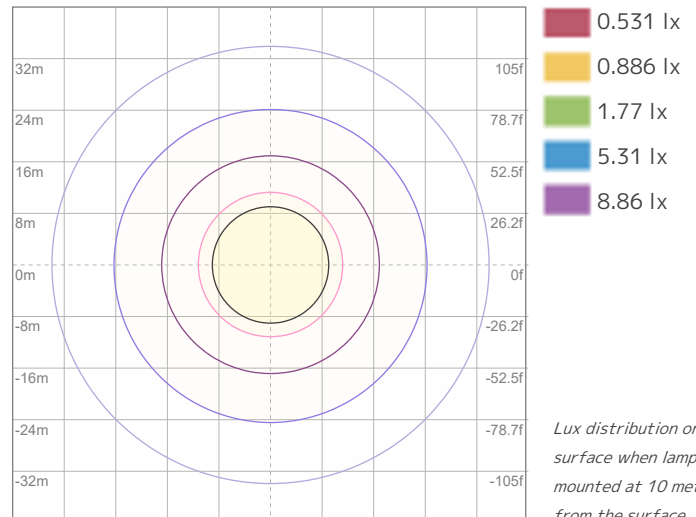
ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 17.7 lx

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

Linear Distribution
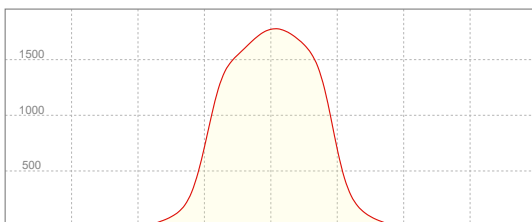
Peak Candela

1776 cd

Calculate Center Beam Intensities

$$lux = 1776 / distance(m)^2$$

$$fc = 1776 / distance(ft)^2$$

Measurement Date: 8/15/2024

Six+ Bar S (100°, 6500K)

Key Measurements

Output
Total Lumen Output: 3440 lm

Peak Intensity: 1939 cd

Beam
Beam Angle (50%): 84.6°

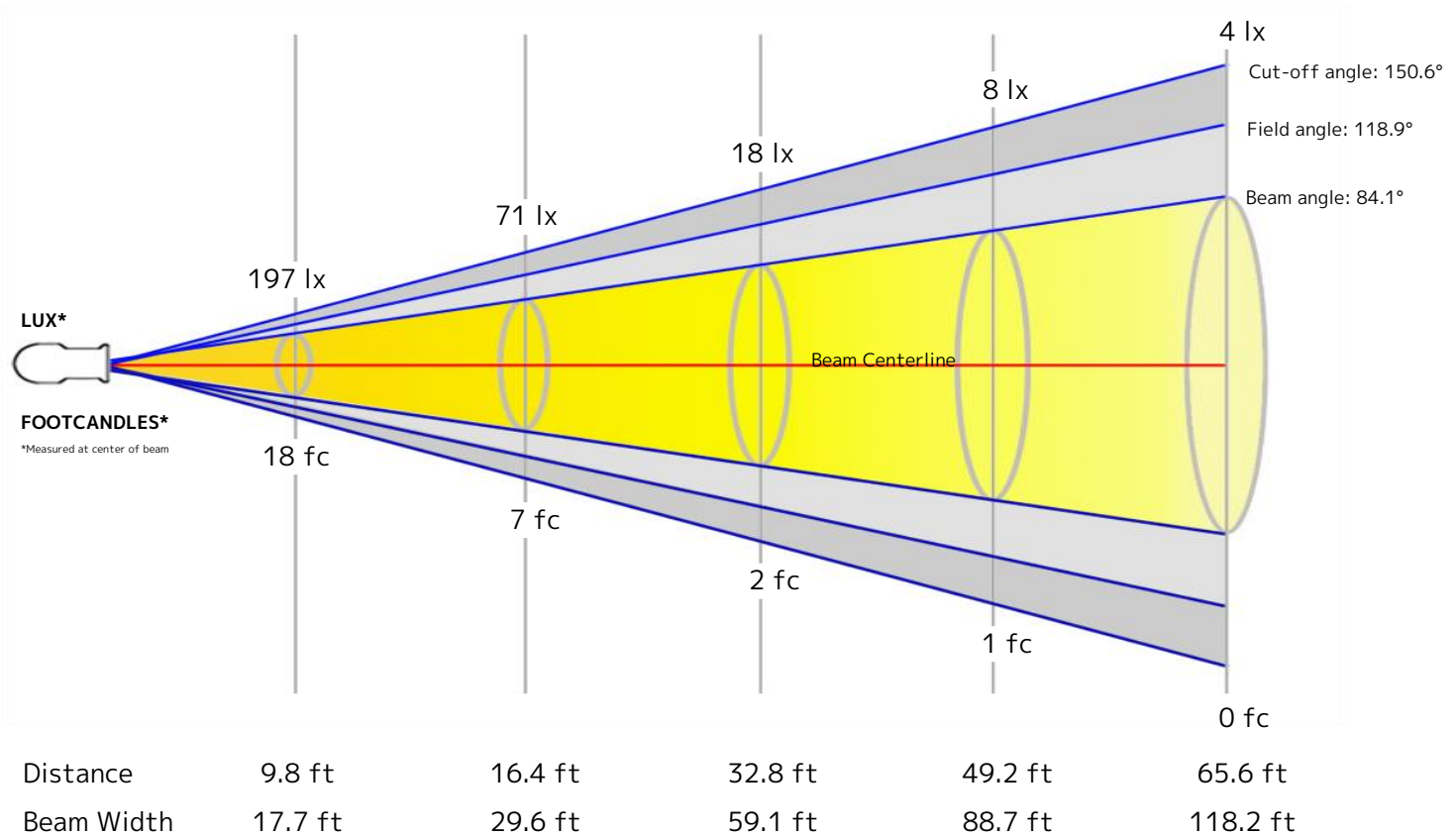Field Angle (10%): 119.8°

Cutoff Angle (2.5%): 151°

Color
Color Temperature: 6525 K

CRI: 88.8

TLCI: 81

TM30 R_F: 88.3

TM30 R_g: 106.9

Power Details
Efficacy: 46 Lumen/Watt

Power: 74.0 W

Supply Voltage: 120 V

Current: 0.624 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.5 m	9.1 m	18.2	27.3 m	36.4 m

| Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.8 ft	29.8 ft	59.7 ft	89.5 ft	119.3 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	1935	484	215	121	77	54	39	30	24	19	16	13	11	10	9	8	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	179.7	44.9	20	11.2	7.2	5	3.7	2.8	2.2	1.8	1.5	1.2	1.1	0.9	0.8	0.7	0.6	0.6	0.5	0.4

Measurement Date: 8/15/2024

Six+ Bar S (100°, 6500K)

Angular Distribution
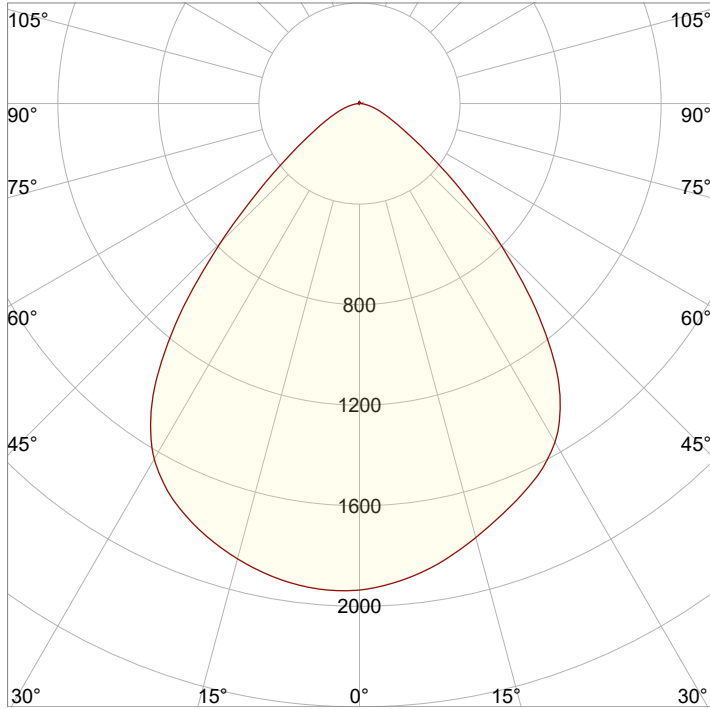
Beam Angle - 50%
84.6°
Field Angle - 10%
119.8°
Cutoff Angle - 2.5%
151°

ISO Diagrams
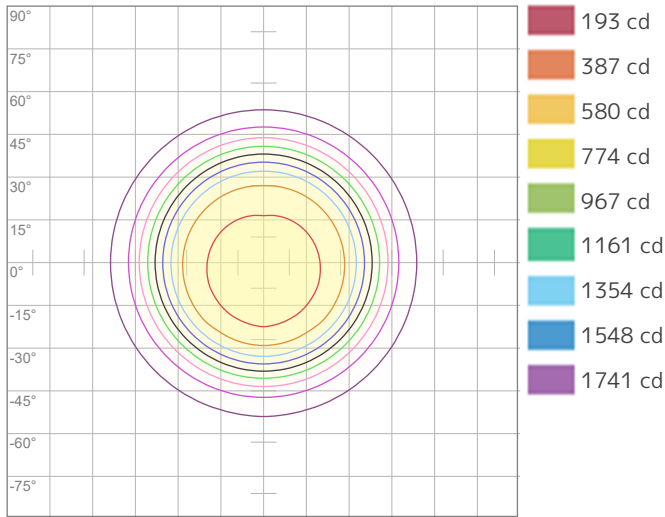
�	193 cd
	387 cd
	580 cd
	774 cd
	967 cd
	1161 cd
	1354 cd
	1548 cd
	1741 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 2

Candela at center: 1935 cd

	0.580 lx
	0.967 lx
	1.93 lx
	5.80 lx
	9.67 lx
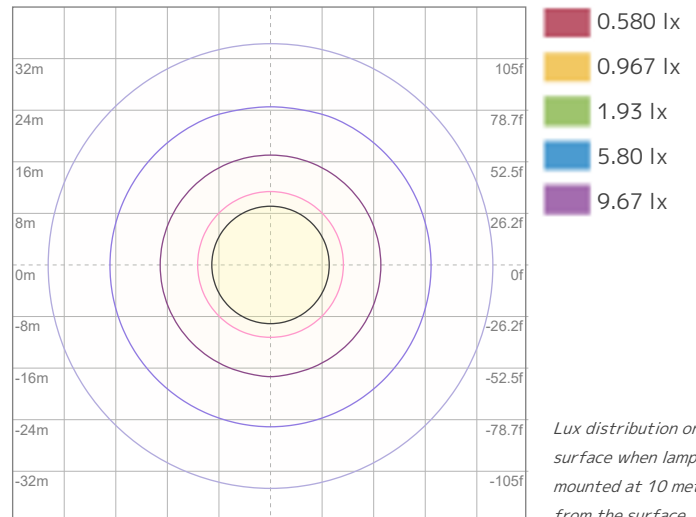
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:

Number of c-planes: 2

LUX at center: 19.3 lx

Linear Distribution
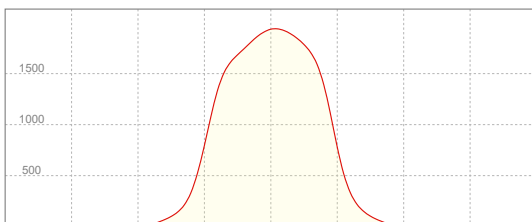
Peak Candela

1939 cd

Calculate Center Beam Intensities

$$lux = 1939 / distance(m)^2$$

$$fc = 1939 / distance(ft)^2$$

Measurement Date: 8/15/2024

Six+ Bar S (100°, 8500K)

Key Measurements

Output

Total Lumen Output: 3155 lm

Peak Intensity: 1783 cd

Beam

Beam Angle (50%): 84.5°

Field Angle (10%): 119.7°

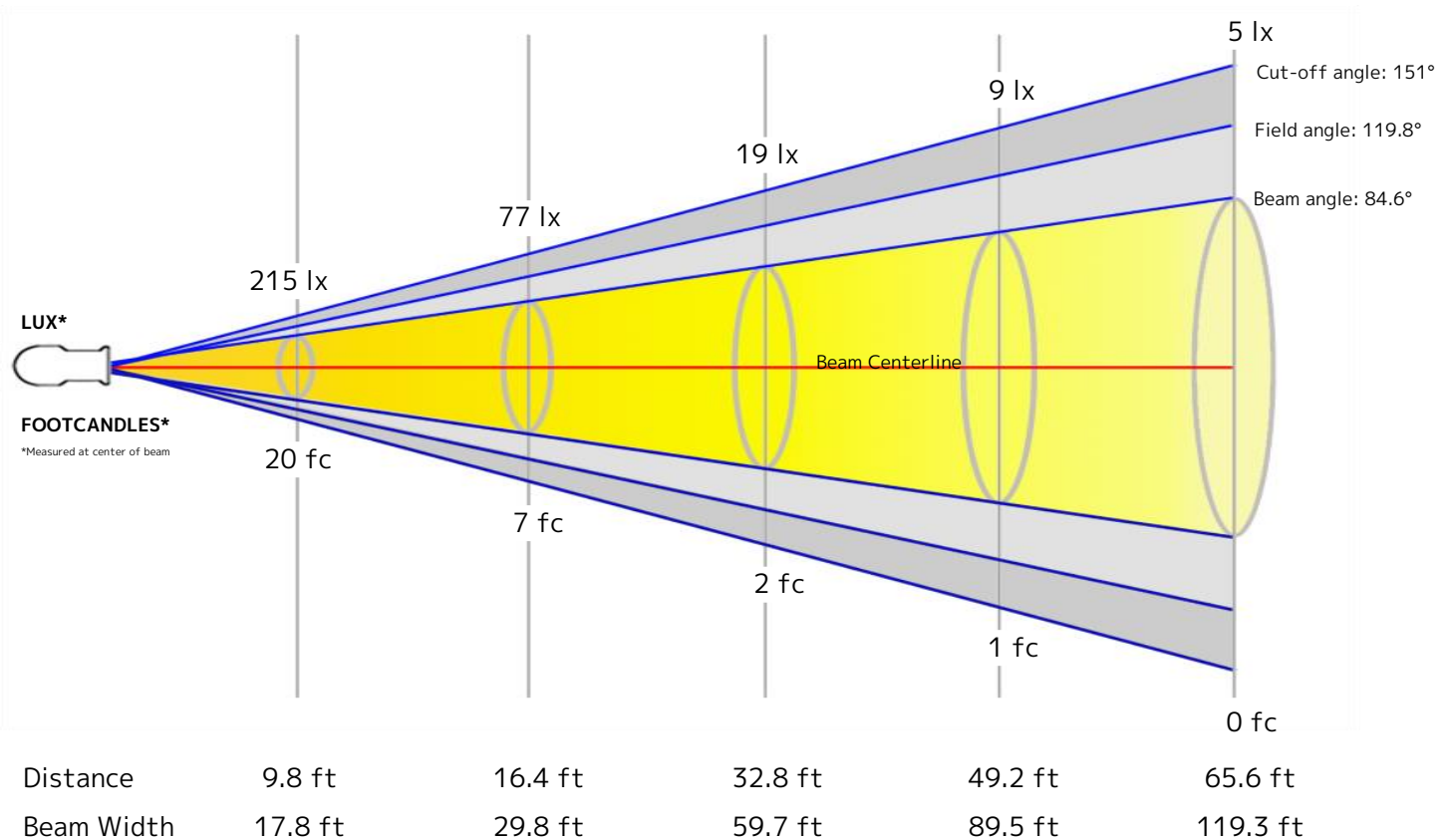Cutoff Angle (2.5%): 150.9°

Color

Color Temperature: 8580 K

CRI: 87.8

TLCI: 84

TM30 R_F: 87.0

TM30 R_g: 104.9

Power Details

Efficacy: 45 Lumen/Watt

Power: 70.6 W

Supply Voltage: 120 V

Current: 0.594 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	5.4 m	9.1 m	18.2	27.2 m	36.3 m

4 lx

Cut-off angle: 150.9°

8 lx

Field angle: 119.7°

18 lx

Beam angle: 84.5°

71 lx

198 lx

LUX*

Beam Centerline

FOOTCANDLES*

*Measured at center of beam

18 fc

7 fc

2 fc

1 fc

0 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	17.8 ft	29.8 ft	59.6 ft	89.3 ft	119.1 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	1778	444	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	165.2	41.3	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: 8/15/2024

Six+ Bar S (100°, 8500K)

Angular Distribution
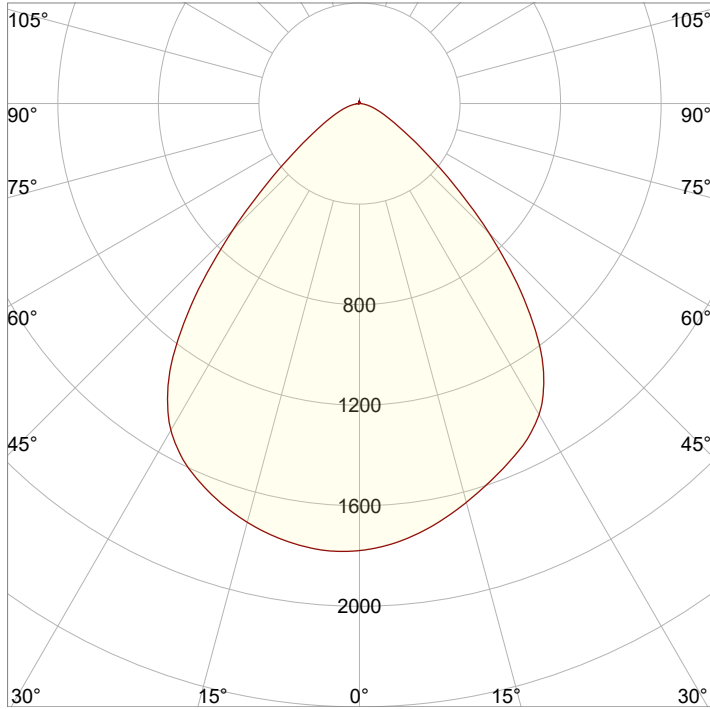
Beam Angle - 50%
84.5°
Field Angle - 10%
119.7°
Cutoff Angle - 2.5%
150.9°

ISO Diagrams
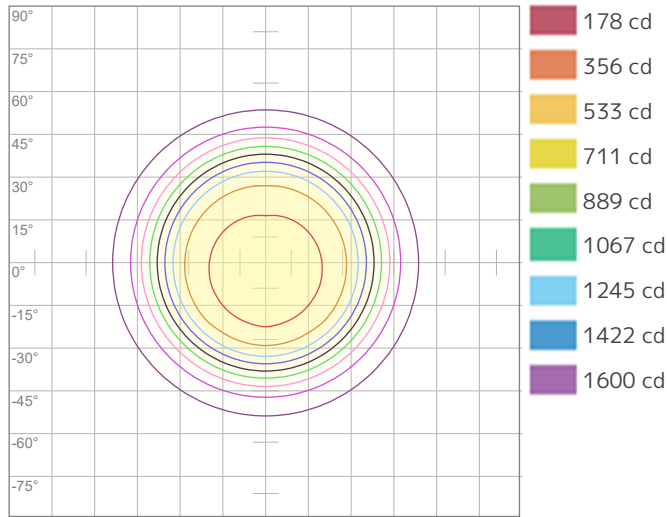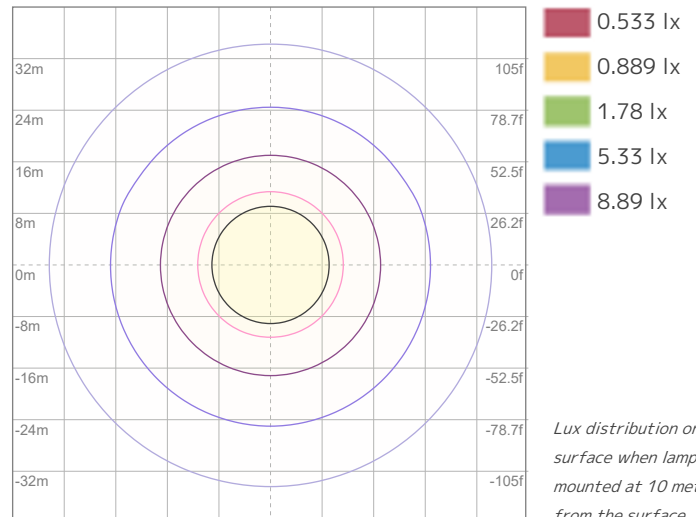
🟥	178 cd
🟧	356 cd
🟨	533 cd
🟨	711 cd
🟩	889 cd
🟩	1067 cd
🟦	1245 cd
🟦	1422 cd
🟪	1600 cd

ISO Candela Diagram

🟥	0.533 lx
🟧	0.889 lx
🟩	1.78 lx
🟦	5.33 lx
🟪	8.89 lx

ISO LUX Diagram

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

Conditions:

Number of c-planes: 2

Candela at center: 1778 cd

Conditions:

Number of c-planes: 2

LUX at center: 17.8 lx

Linear Distribution
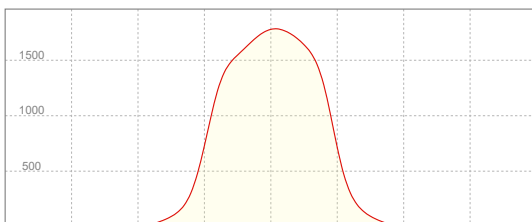
Peak Candela

1783 cd

Calculate Center Beam Intensities

$lux = 1783 / distance(m)^2$

$fc = 1783 / distance(ft)^2$

Measurement Date: 8/15/2024

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

Key Measurements

Output
Total Lumen Output: 4295 lm

Peak Intensity: 13801 cd

Beam
Beam Angle (50%): 29.2°x 39.9°

Field Angle (10%): 50°x 65.1°

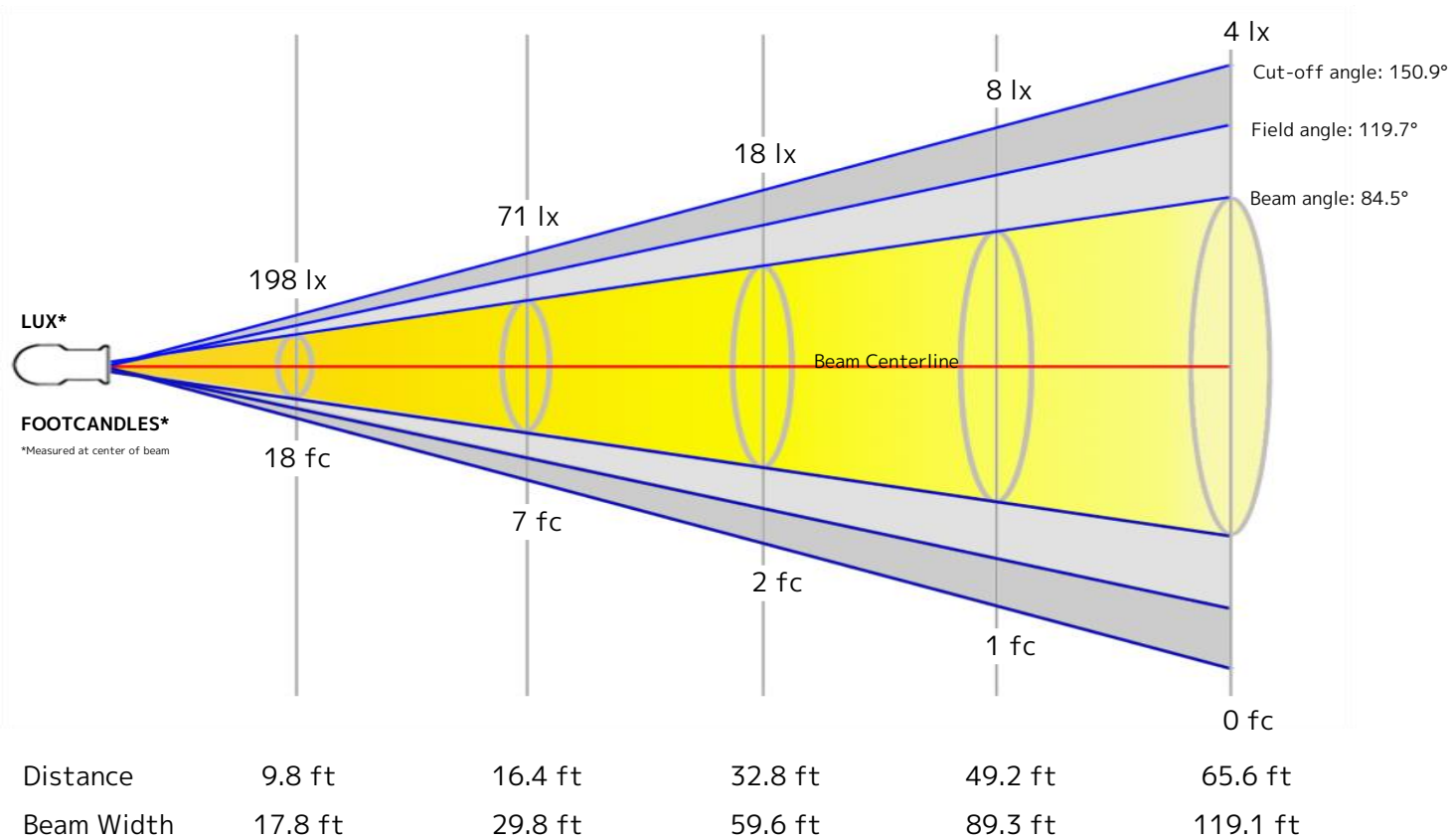Cutoff Angle (2.5%): 67.9°x 82.1°

Color
Color Temperature: 7080 K

CRI: 67.2

TLCI: 76

TM30 R_F: 77.9

TM30 R_g: 120.5

Power Details
Efficacy: 48 Lumen/Watt

Power: 88.8 W

Supply Voltage: 120 V

Current: 0.748 A

Beam Details

| Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.6 m	5.2 m	7.8 m	10.4 m

Beam diagram annotations:
- 34 lx — Cut-off angle: 67.9°
- 61 lx — Field angle: 50°
- 138 lx — Beam angle: 29.2°
- 552 lx
- 1533 lx
- LUX*
- Beam Centerline
- FOOTCANDLES*
- *Measured at center of beam
- 142 fc
- 51 fc
- 13 fc
- 6 fc
- 3 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.1 ft	8.5 ft	17.1 ft	25.6 ft	34.2 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	13793	3448	1533	862	552	383	281	216	170	138	114	96	82	70	61	54	48	43	38	34
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1281.4	320.3	142.4	80.1	51.3	35.6	26.2	20	15.8	12.8	10.6	8.9	7.6	6.5	5.7	5	4.4	4	3.5	3.2

Measurement Date: 8/16/2024

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

Angular Distribution

Plane A	Plane B
Beam Angle - 50%	**Beam Angle - 50%**
29.2°	**39.9°**
Field Angle - 10%	**Field Angle - 10%**
50°	**65.1°**
Cutoff Angle - 2.5%	**Cutoff Angle - 2.5%**
67.9°	**82.1°**

ISO Diagrams

■	1379 cd
■	2759 cd
■	4138 cd
■	5517 cd
■	6896 cd
■	8276 cd
■	9655 cd
■	11034 cd
■	12413 cd

ISO Candela Diagram

Conditions:
Number of c-planes: 4
Candela at center: 13793 cd

■	4.14 lx
■	6.90 lx
■	13.8 lx
■	41.4 lx
■	69.0 lx

ISO LUX Diagram

Conditions:
Number of c-planes: 4
LUX at center: 138 lx

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

Linear Distribution

Peak Candela

13801 cd

Calculate Center Beam Intensities

$$lux = 13801 \: / \: distance(m)^2$$

$$fc = 13801 \: / \: distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (60°x10°, Full Output)

Key Measurements

Output

Total Lumen Output: 5298 lm

Peak Intensity: 9323 cd

Beam

Beam Angle (50%): 39.2°x 20.4°

Field Angle (10%): 66.8°x 40.8°

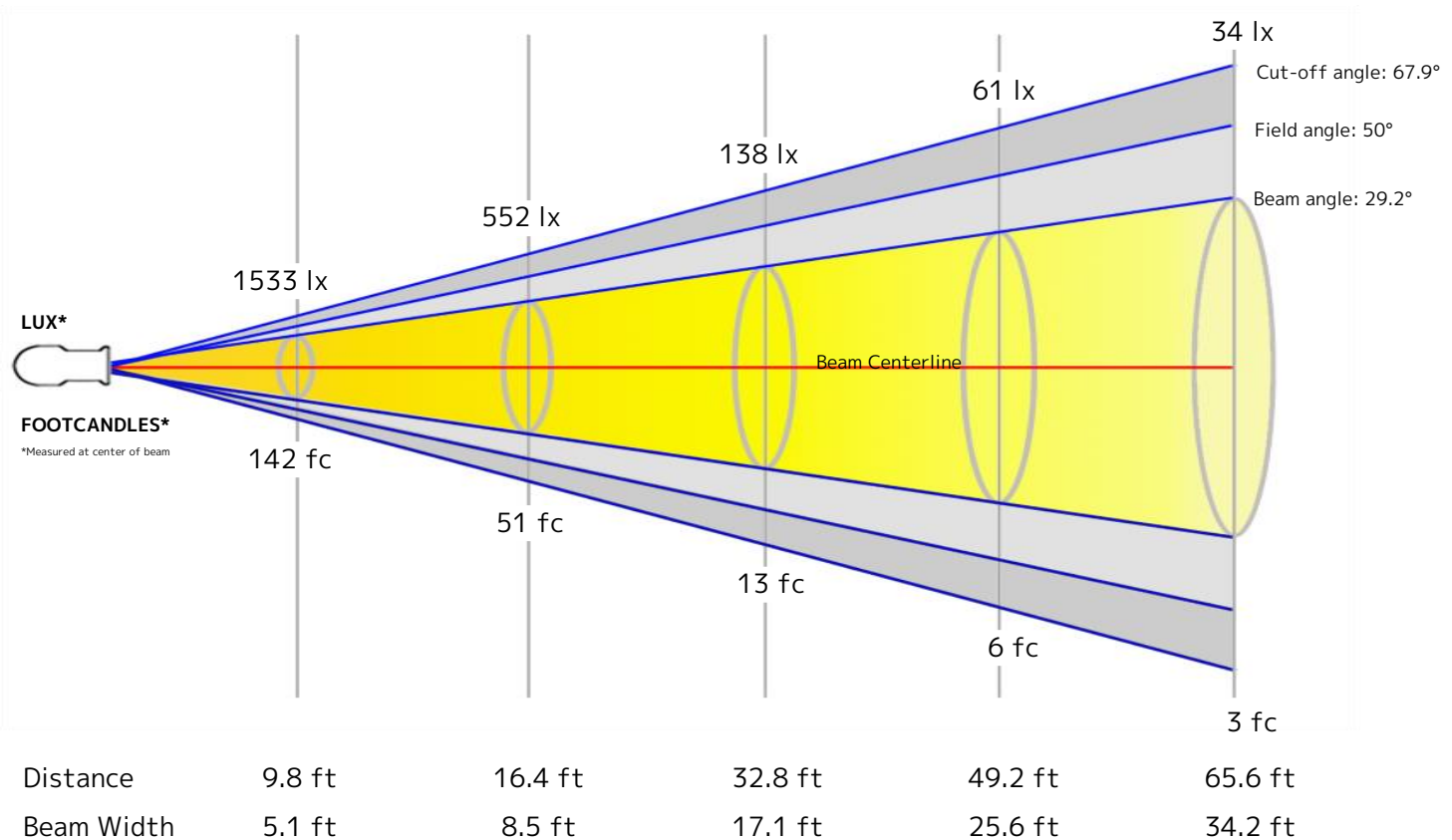Cutoff Angle (2.5%): 87.4°x 61.8°

Color

Color Temperature: 6898 K

CRI: 65.3

TLCI: 72

TM30 R_F: 76.7

TM30 R_g: 121.9

Power Details

Efficacy: 51 Lumen/Watt

Power: 103.6 W
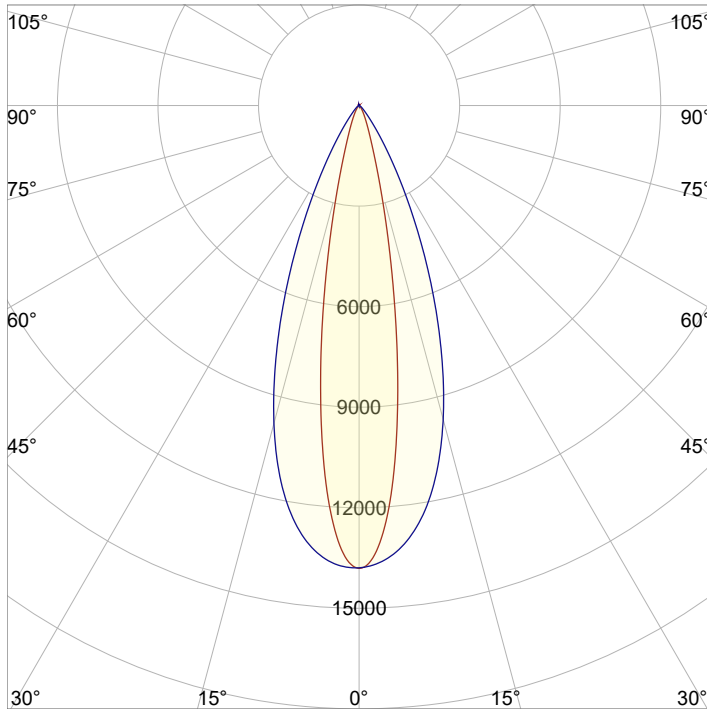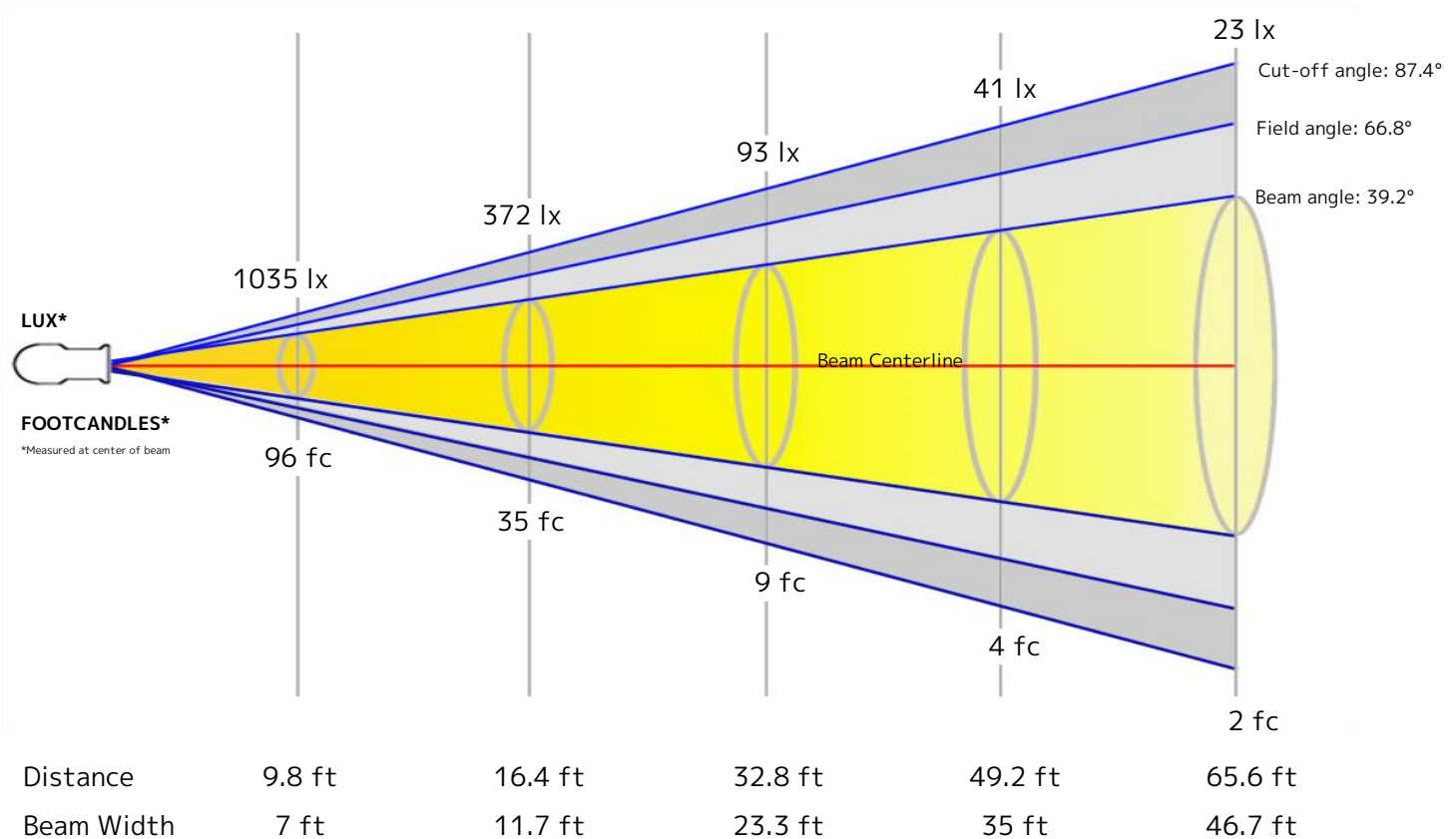
Supply Voltage: 119 V

Current: 0.877 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.6 m	7.1 m	10.7 m	14.2 m

23 lx

Cut-off angle: 87.4°

41 lx

Field angle: 66.8°

93 lx

Beam angle: 39.2°

372 lx

1035 lx

LUX*

Beam Centerline

FOOTCANDLES*

*Measured at center of beam

96 fc

35 fc

9 fc

4 fc

2 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7 ft	11.7 ft	23.3 ft	35 ft	46.7 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	9312	2328	1035	582	372	259	190	145	115	93	77	65	55	48	41	36	32	29	26	23
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	865.1	216.3	96.1	54.1	34.6	24	17.7	13.5	10.7	8.7	7.1	6	5.1	4.4	3.8	3.4	3	2.7	2.4	2.2

Six+ Bar S (60°x10°, Full Output)

Angular Distribution
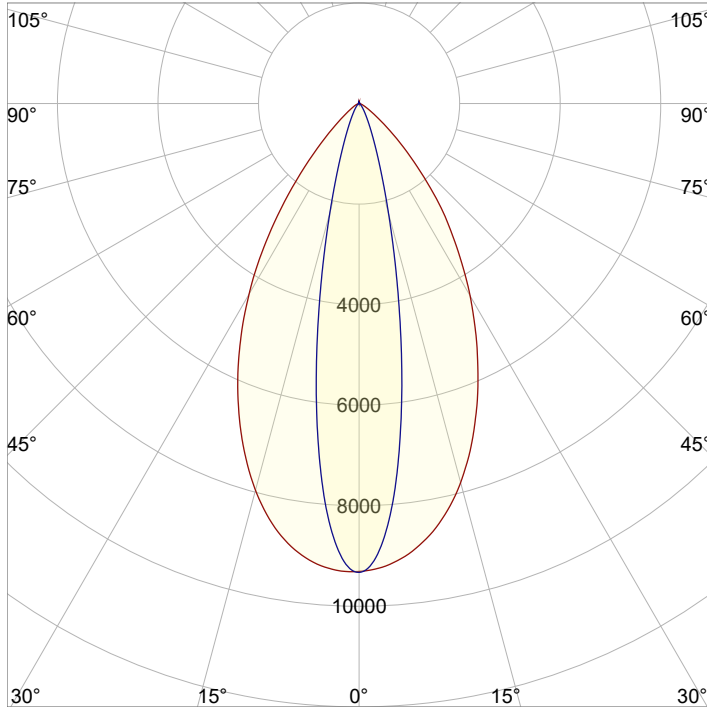
	Plane A	Plane B
Beam Angle - 50%		
	39.2°	20.4°
Field Angle - 10%		
	66.8°	40.8°
Cutoff Angle - 2.5%		
	87.4°	61.8°

ISO Diagrams
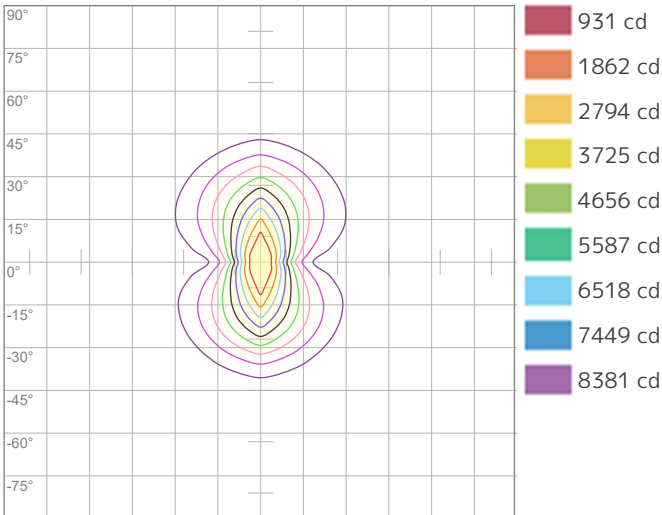
■	931 cd
■	1862 cd
■	2794 cd
■	3725 cd
■	4656 cd
■	5587 cd
■	6518 cd
■	7449 cd
■	8381 cd

ISO Candela Diagram

Conditions:
Number of c-planes: 4
Candela at center: 9312 cd

■	2.79 lx
■	4.66 lx
■	9.31 lx
■	27.9 lx
■	46.6 lx

ISO LUX Diagram

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.
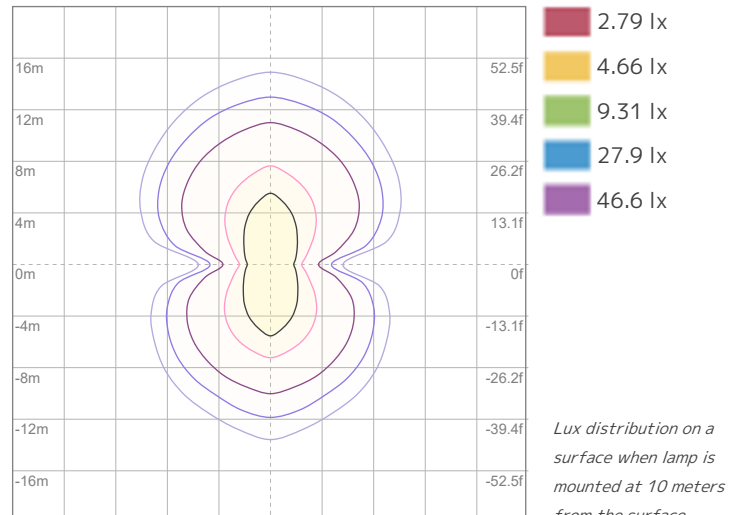
Conditions:
Number of c-planes: 4
LUX at center: 93.1 lx

Linear Distribution

Peak Candela

9323 cd

Calculate Center Beam Intensities

$$lux = 9323 / distance(m)^2$$

$$fc = 9323 / distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (60°x10°, 2400K)

Key Measurements

Output

Total Lumen Output: 3375 lm

Peak Intensity: 6000 cd

Beam

Beam Angle (50%): 39°x 20.4°

Field Angle (10%): 66.5°x 40.7°

Cutoff Angle (2.5%): 86.8°x 61.5°

Color

Color Temperature: 2401 K

CRI: 85.2

TLCI: 71

TM30 R_F: 87.8

TM30 R_g: 108.3

Power Details

Efficacy: 61 Lumen/Watt

Power: 55.3 W

Supply Voltage: 119 V

Current: 0.474 A

Beam Details

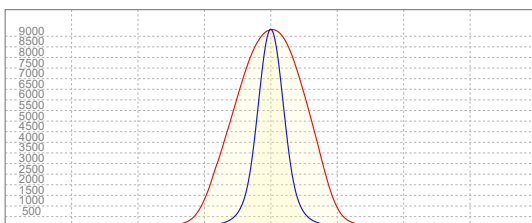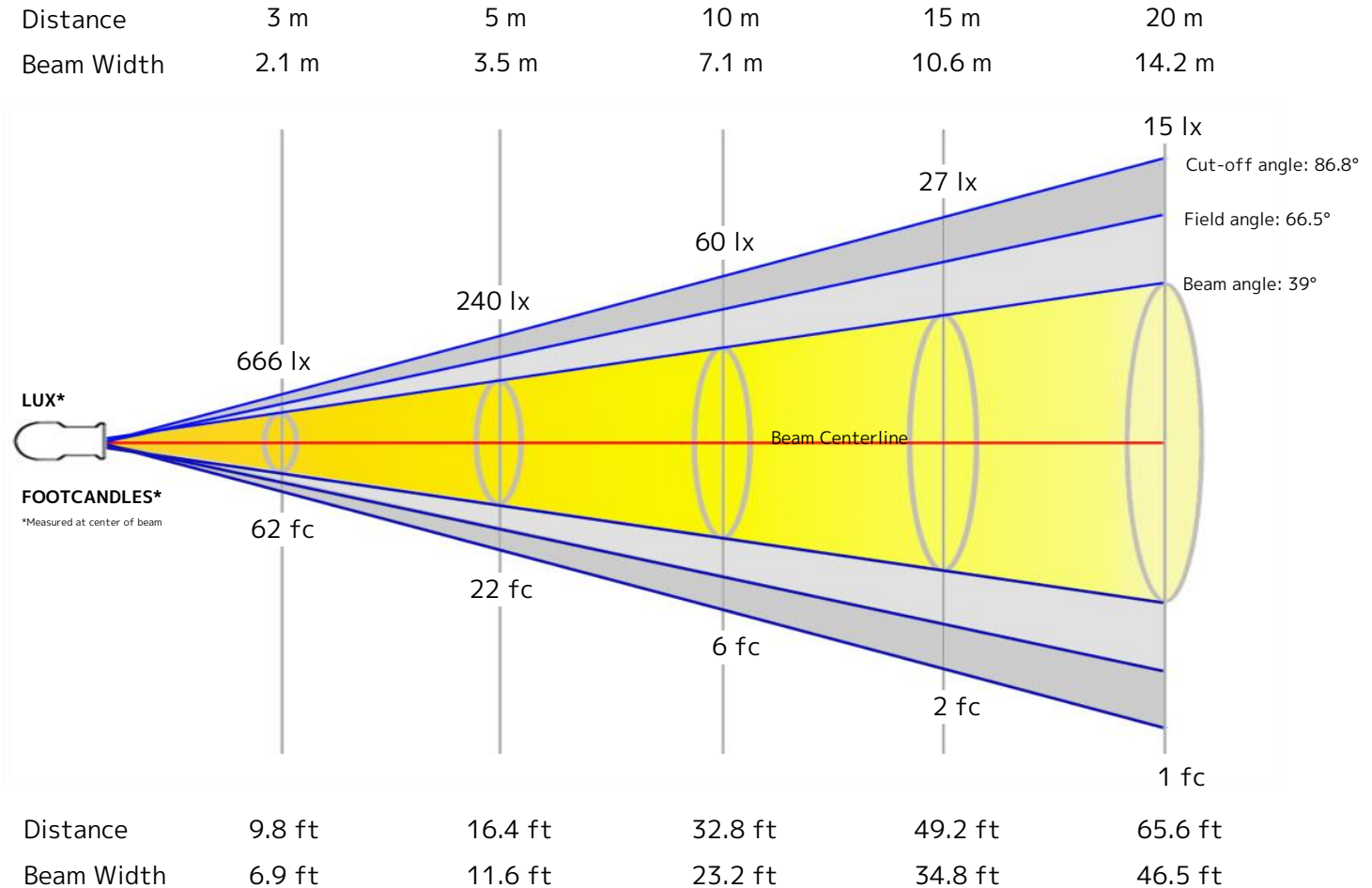| Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7.1 m	10.6 m	14.2 m

Cut-off angle: 86.8°

Field angle: 66.5°

Beam angle: 39°

15 lx

27 lx

60 lx

240 lx

666 lx

LUX*

Beam Centerline

FOOTCANDLES*

*Measured at center of beam

62 fc

22 fc

6 fc

2 fc

1 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	6.9 ft	11.6 ft	23.2 ft	34.8 ft	46.5 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	5992	1498	666	375	240	166	122	94	74	60	50	42	35	31	27	23	21	18	17	15
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	556.7	139.2	61.9	34.8	22.3	15.5	11.4	8.7	6.9	5.6	4.6	3.9	3.3	2.8	2.5	2.2	1.9	1.7	1.5	1.4

Measurement Date: 8/16/2024

Six+ Bar S (60°x10°, 2400K)

Angular Distribution
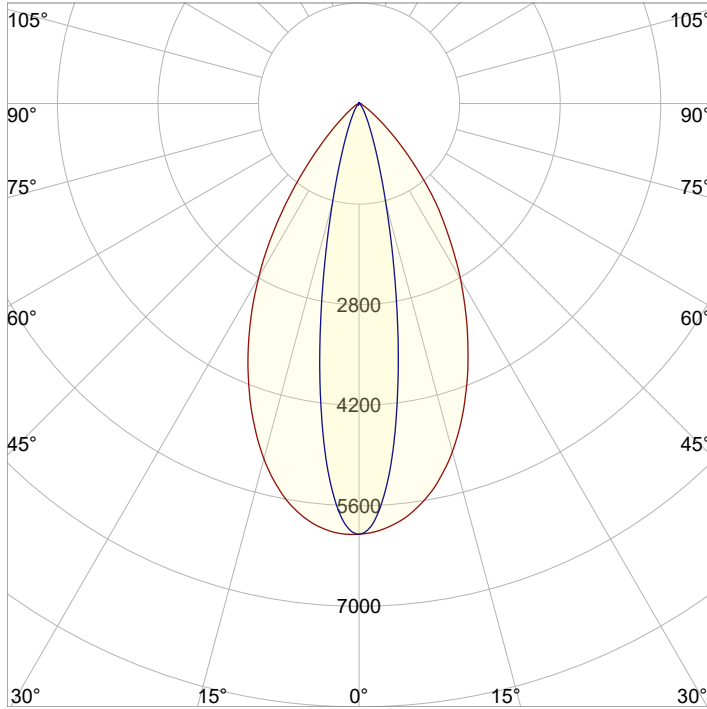
	Plane A	Plane B
Beam Angle - 50%	**39°**	**20.4°**
Field Angle - 10%	**66.5°**	**40.7°**
Cutoff Angle - 2.5%	**86.8°**	**61.5°**

ISO Diagrams

599 cd	
1198 cd	
1798 cd	
2397 cd	
2996 cd	
3595 cd	
4195 cd	
4794 cd	
5393 cd	
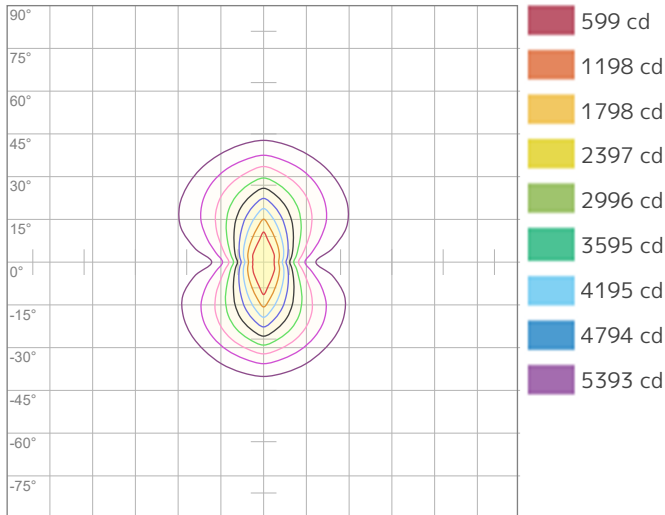
ISO Candela Diagram

Conditions:
Number of c-planes: 4
Candela at center: 5992 cd

1.80 lx
3.00 lx
5.99 lx
18.0 lx
30.0 lx
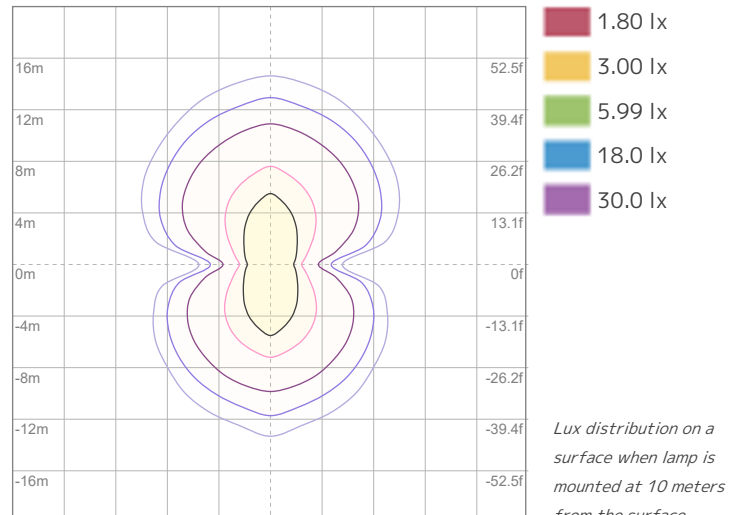
ISO LUX Diagram

Conditions:
Number of c-planes: 4
LUX at center: 59.9 lx

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

Linear Distribution
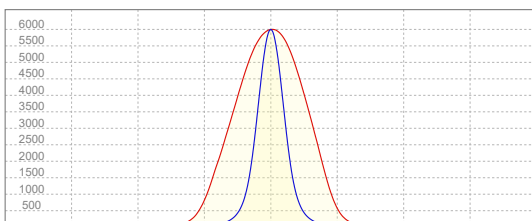
Peak Candela

6000 cd

Calculate Center Beam Intensities

$$lux = 6000 / distance(m)^2$$

$$fc = 6000 / distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (60°x10°, 3200K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 4236 lm

Peak Intensity: 7483 cd

Beam
Beam Angle (50%): 39.1°x 20.4°

Field Angle (10%): 66.5°x 40.8°

Cutoff Angle (2.5%): 87.2°x 61.8°

Color
Color Temperature: 3148 K

CRI: 89.2

TLCI: 78

TM30 R_F: 90.7

TM30 R_g: 108.0

Power Details
Efficacy: 65 Lumen/Watt
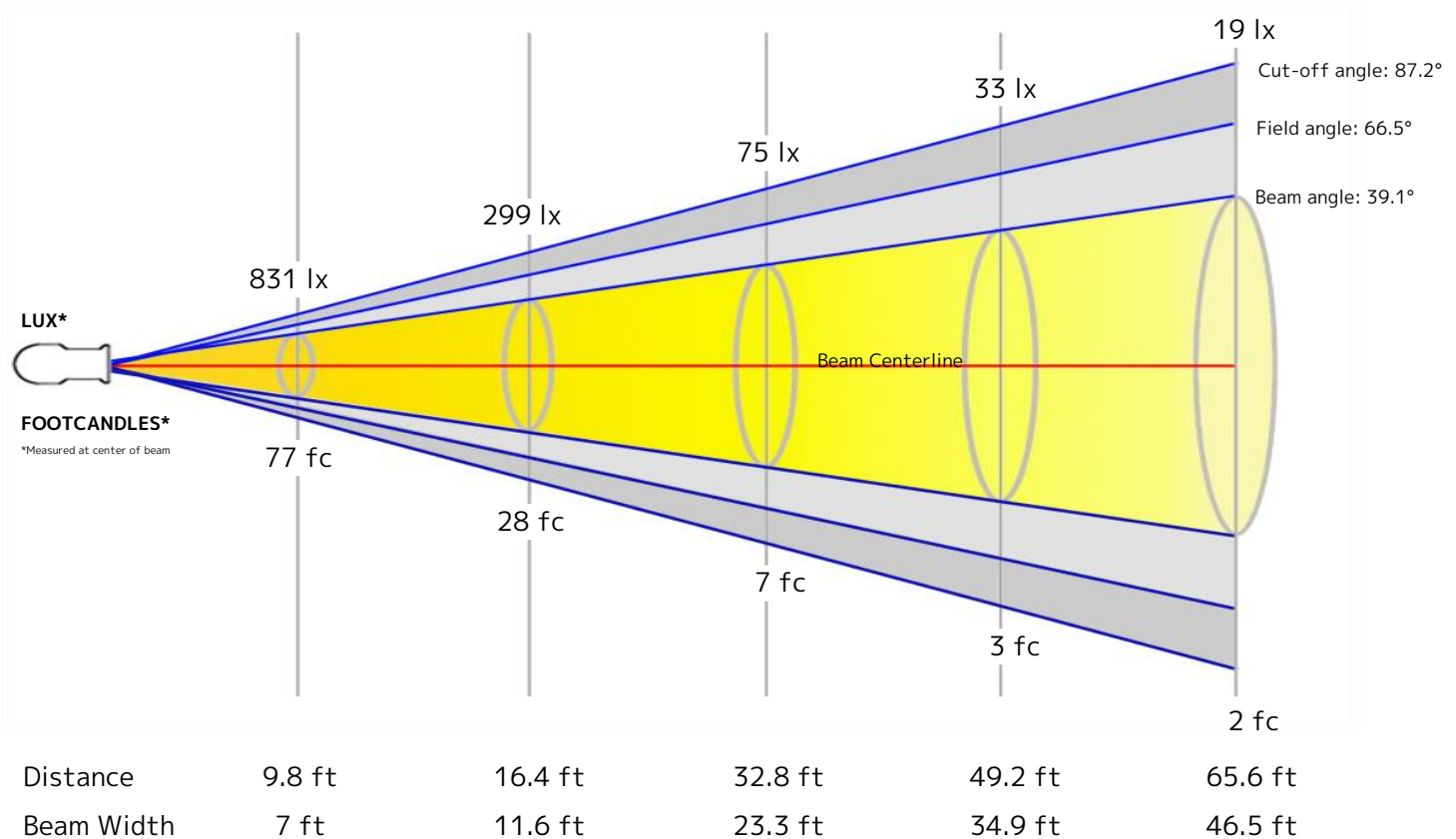
Power: 64.8 W

Supply Voltage: 119 V

Current: 0.551 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.5 m	7.1 m	10.6 m	14.2 m

LUX*

FOOTCANDLES*
*Measured at center of beam

831 lx · 299 lx · 75 lx · 33 lx · 19 lx

Cut-off angle: 87.2°
Field angle: 66.5°
Beam angle: 39.1°

Beam Centerline

77 fc · 28 fc · 7 fc · 3 fc · 2 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7 ft	11.6 ft	23.3 ft	34.9 ft	46.5 ft

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	7477	1869	831	467	299	208	153	117	92	75	62	52	44	38	33	29	26	23	21	19
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	694.6	173.7	77.2	43.4	27.8	19.3	14.2	10.9	8.6	6.9	5.7	4.8	4.1	3.5	3.1	2.7	2.4	2.1	1.9	1.7

Measurement Date: 8/16/2024

Angular Distribution

Plane A	Plane B
Beam Angle - 50%	**Beam Angle - 50%**
39.1°	**20.4°**
Field Angle - 10%	**Field Angle - 10%**
66.5°	**40.8°**
Cutoff Angle - 2.5%	**Cutoff Angle - 2.5%**
87.2°	**61.8°**

ISO Diagrams

🟥	748 cd
🟧	1495 cd
🟨	2243 cd
🟨	2991 cd
🟩	3738 cd
🟩	4486 cd
🟦	5234 cd
🟦	5981 cd
🟪	6729 cd

ISO Candela Diagram

Conditions:
Number of c-planes: 4
Candela at center: 7477 cd

🟥	2.24 lx
🟨	3.74 lx
🟩	7.48 lx
🟦	22.4 lx
🟪	37.4 lx
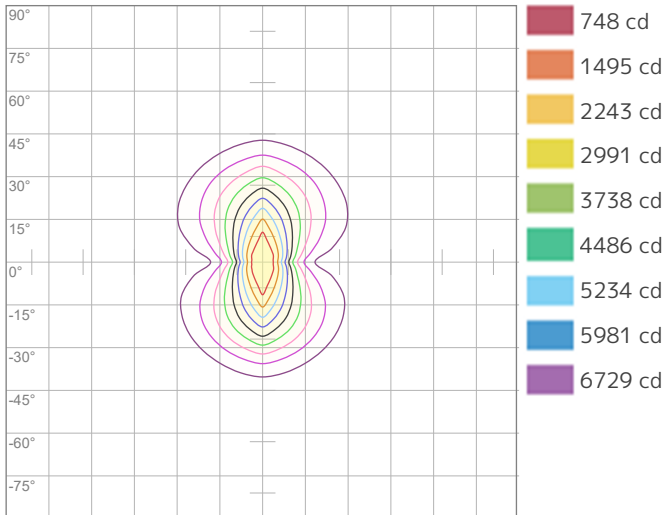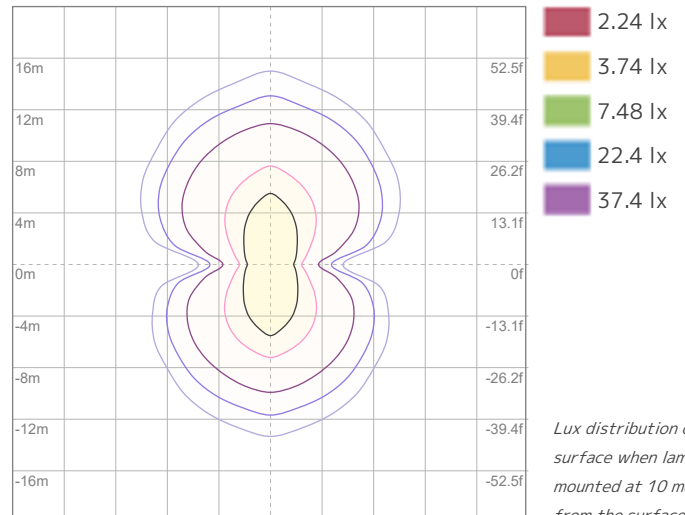
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:
Number of c-planes: 4
LUX at center: 74.8 lx

Linear Distribution
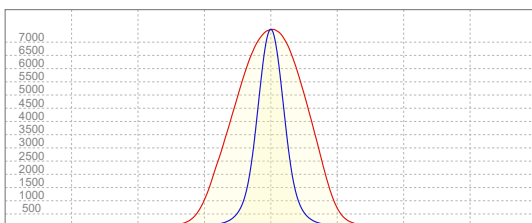
Peak Candela

7483 cd

Calculate Center Beam Intensities

$$\text{lux} = 7483 \, / \, \text{distance(m)}^2$$
$$\text{fc} = 7483 \, / \, \text{distance(ft)}^2$$

Measurement Date: 8/16/2024

Six+ Bar S (60°x10°, 4500K)

Key Measurements

Output
Total Lumen Output: 4518 lm

Peak Intensity: 7934 cd

Beam
Beam Angle (50%): 39.1°x 20.4°

Field Angle (10%): 66.8°x 40.8°

Cutoff Angle (2.5%): 87.3°x 62.1°

Color
Color Temperature: 4522 K

CRI: 90.6

TLCI: 80

TM30 R_F: 90.4

TM30 R_g: 107.6

Power Details
Efficacy: 65 Lumen/Watt

Power: 69.1 W

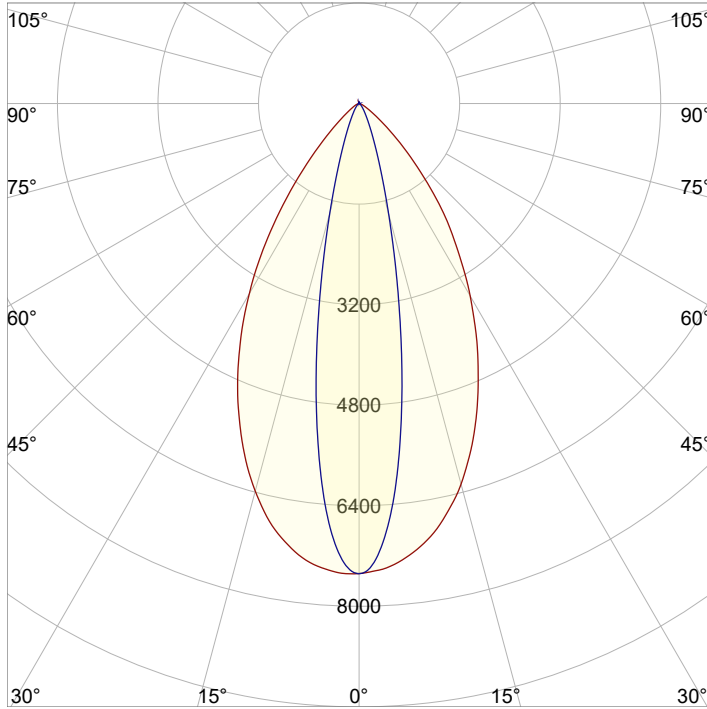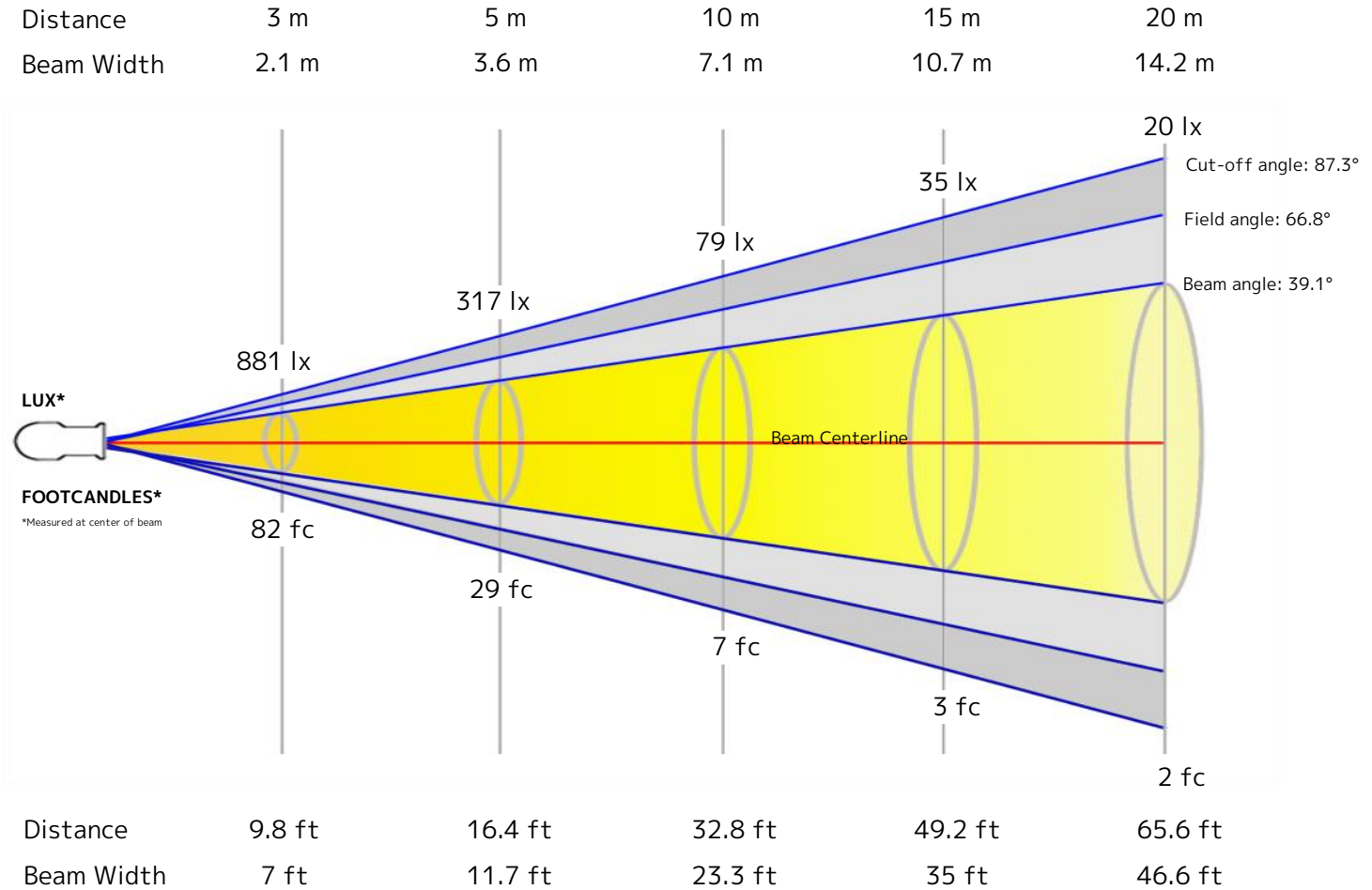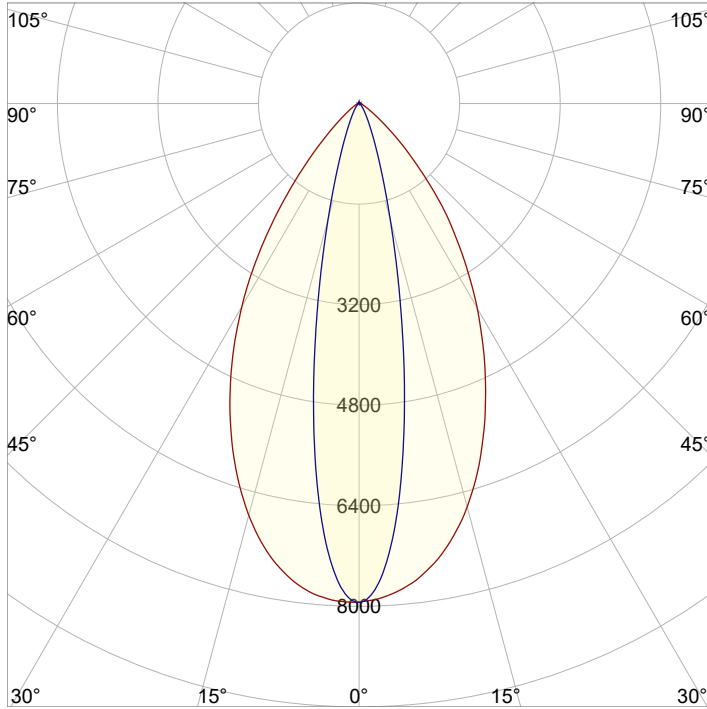Supply Voltage: 119 V

Current: 0.589 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.6 m	7.1 m	10.7 m	14.2 m

20 lx

Cut-off angle: 87.3°

35 lx

Field angle: 66.8°

79 lx

Beam angle: 39.1°

317 lx

881 lx

LUX*

Beam Centerline

FOOTCANDLES*

*Measured at center of beam

82 fc

29 fc

7 fc

3 fc

2 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7 ft	11.7 ft	23.3 ft	35 ft	46.6 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	7927	1982	881	495	317	220	162	124	98	79	66	55	47	40	35	31	27	24	22	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	736.4	184.1	81.8	46	29.5	20.5	15	11.5	9.1	7.4	6.1	5.1	4.4	3.8	3.3	2.9	2.5	2.3	2	1.8

Measurement Date: 8/16/2024

Six+ Bar S (60°x10°, 4500K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution

	Plane A	Plane B
Beam Angle - 50%	**39.1°**	**20.4°**
Field Angle - 10%	**66.8°**	**40.8°**
Cutoff Angle - 2.5%	**87.3°**	**62.1°**

ISO Diagrams

ISO Candela Diagram

- 793 cd
- 1585 cd
- 2378 cd
- 3171 cd
- 3964 cd
- 4756 cd
- 5549 cd
- 6342 cd
- 7134 cd
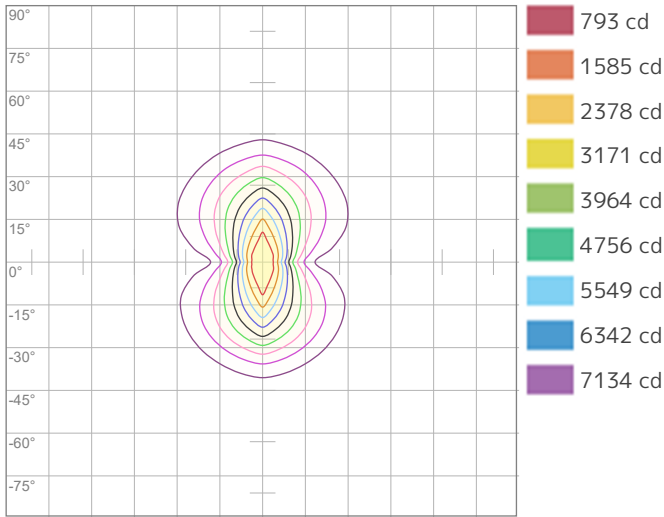
Conditions:
Number of c-planes: 4
Candela at center: 7927 cd

ISO LUX Diagram

- 2.38 lx
- 3.96 lx
- 7.93 lx
- 23.8 lx
- 39.6 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.
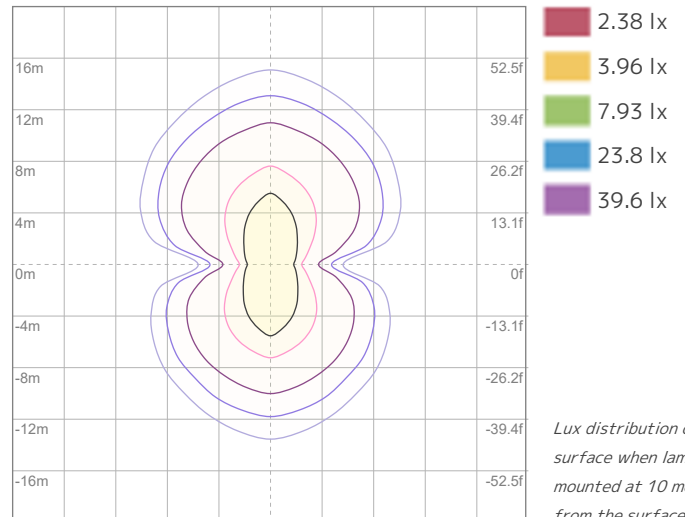
Conditions:
Number of c-planes: 4
LUX at center: 79.3 lx

Linear Distribution
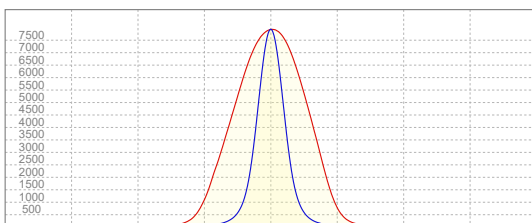
Peak Candela

7934 cd

Calculate Center Beam Intensities

$$lux = 7934 / distance(m)^2$$

$$fc = 7934 / distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (60°x10°, 6500K)

ELATION

Key Measurements

Output
Total Lumen Output: 4699 lm

Peak Intensity: 8220 cd

Beam
Beam Angle (50%): 39.1°x 20.4°

Field Angle (10%): 66.9°x 40.8°

Cutoff Angle (2.5%): 87.9°x 62.2°

Color
Color Temperature: 6550 K

CRI: 89.2

TLCI: 84

TM30 R_F: 88.5

TM30 R_g: 106.2

Power Details
Efficacy: 64 Lumen/Watt

Power: 74.0 W

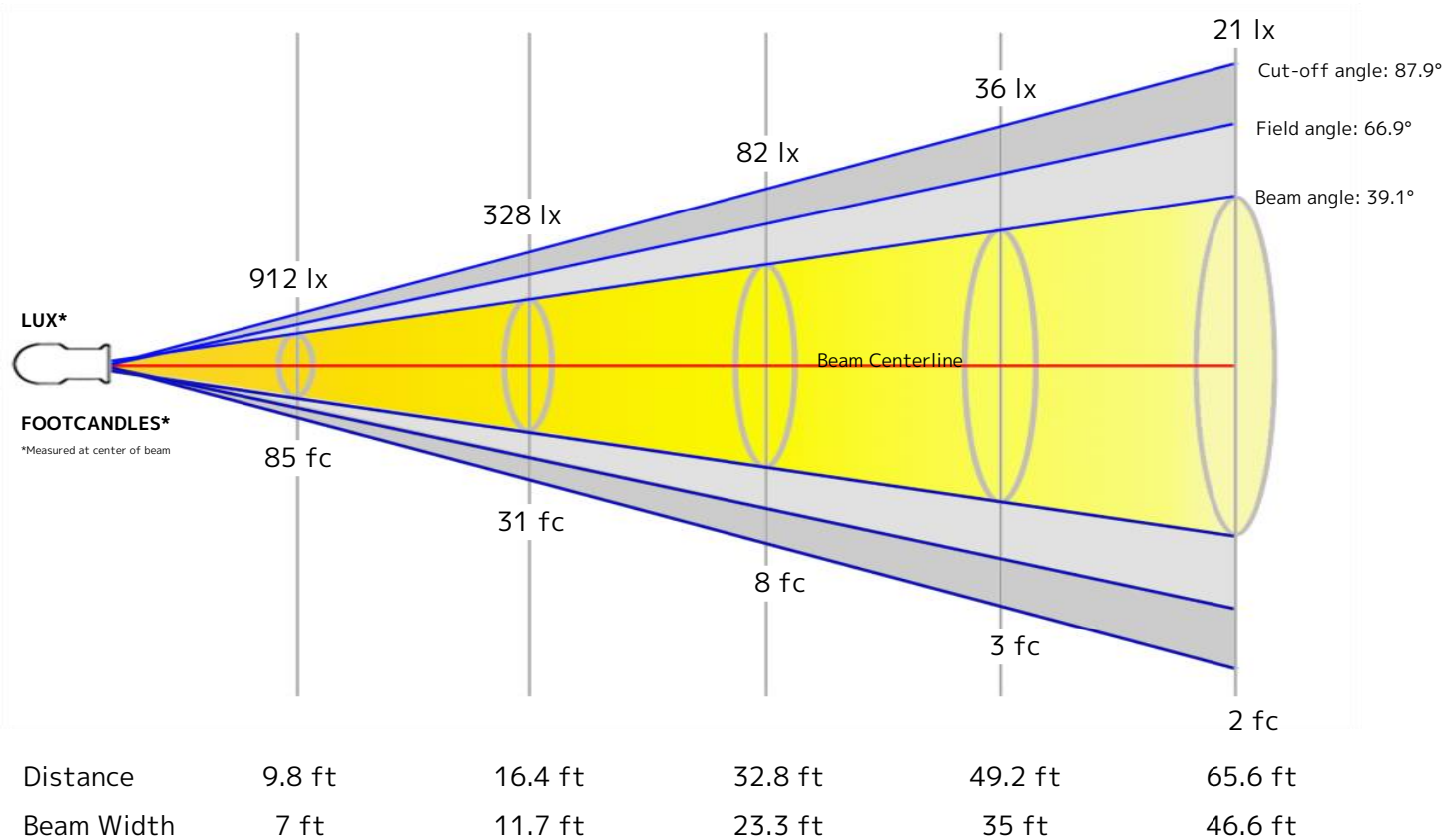Supply Voltage: 119 V

Current: 0.627 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.6 m	7.1 m	10.7 m	14.2 m

Cut-off angle: 87.9°
Field angle: 66.9°
Beam angle: 39.1°

21 lx
36 lx
82 lx
328 lx
912 lx

LUX*

FOOTCANDLES*
*Measured at center of beam

Beam Centerline

85 fc
31 fc
8 fc
3 fc
2 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7 ft	11.7 ft	23.3 ft	35 ft	46.6 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	8210	2053	912	513	328	228	168	128	101	82	68	57	49	42	36	32	28	25	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	762.8	190.7	84.8	47.7	30.5	21.2	15.6	11.9	9.4	7.6	6.3	5.3	4.5	3.9	3.4	3	2.6	2.4	2.1	1.9

Measurement Date: 8/16/2024

Angular Distribution
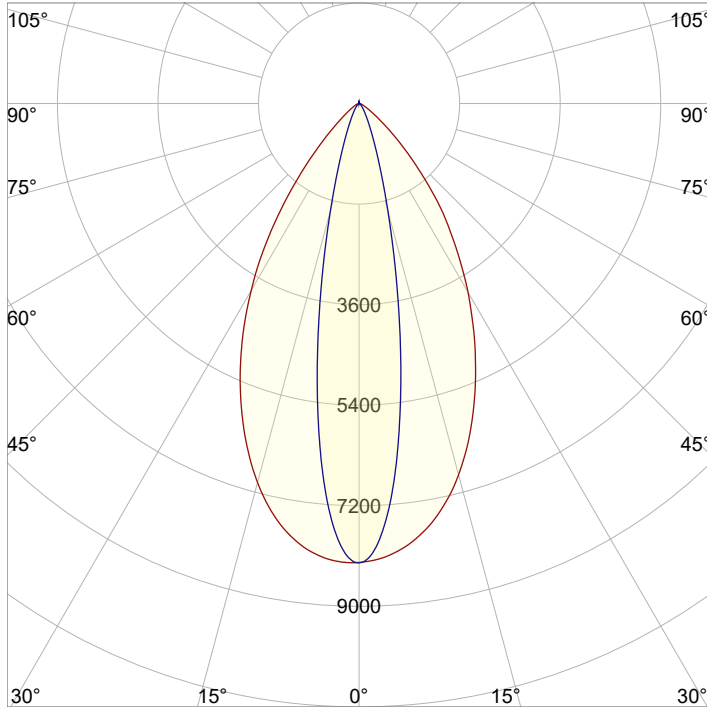
Plane A		Plane B	
Beam Angle - 50%		**Beam Angle - 50%**	
39.1°		**20.4°**	
Field Angle - 10%		**Field Angle - 10%**	
66.9°		**40.8°**	
Cutoff Angle - 2.5%		**Cutoff Angle - 2.5%**	
87.9°		**62.2°**	

ISO Diagrams
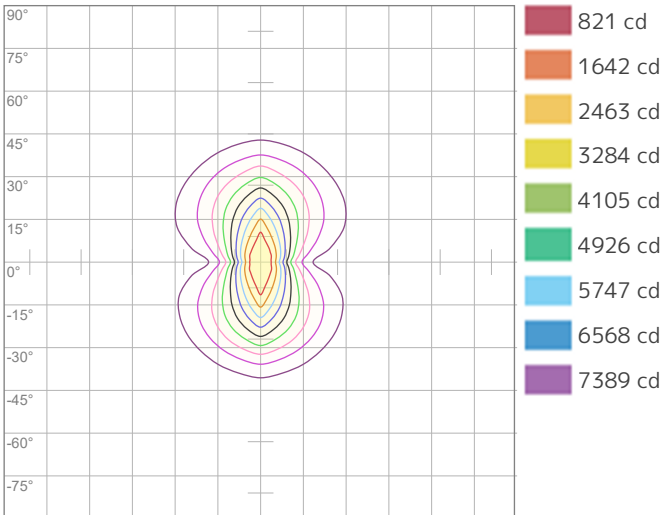
	cd
	821 cd
	1642 cd
	2463 cd
	3284 cd
	4105 cd
	4926 cd
	5747 cd
	6568 cd
	7389 cd

ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 8210 cd

	lx
	2.46 lx
	4.11 lx
	8.21 lx
	24.6 lx
	41.1 lx
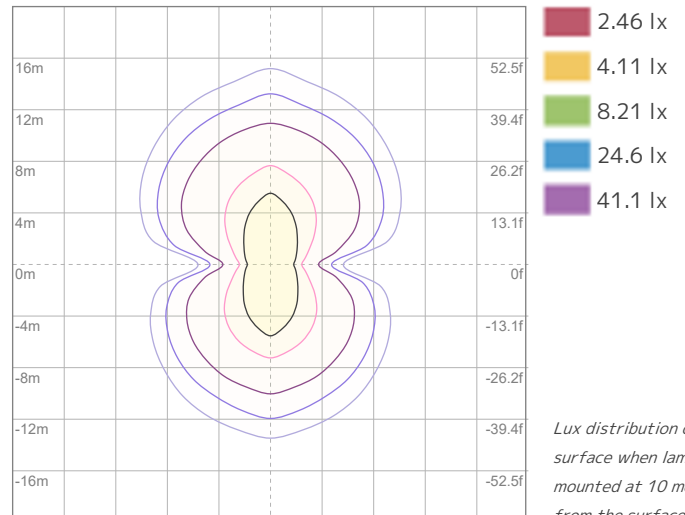
ISO LUX Diagram

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

Conditions:

Number of c-planes: 4

LUX at center: 82.1 lx

Linear Distribution
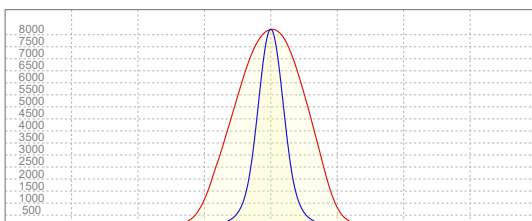
Peak Candela

8220 cd

Calculate Center Beam Intensities

$$lux = 8220 \ / \ distance(m)^2$$

$$fc = \ 8220 \ / \ distance(ft)^2$$

Measurement Date: 8/16/2024

ELATION

Six+ Bar S (60°x10°, 8500K)

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 4604 lm

Peak Intensity: 8039 cd

Beam

Beam Angle (50%): 39.1°x 20.4°

Field Angle (10%): 66.9°x 40.9°
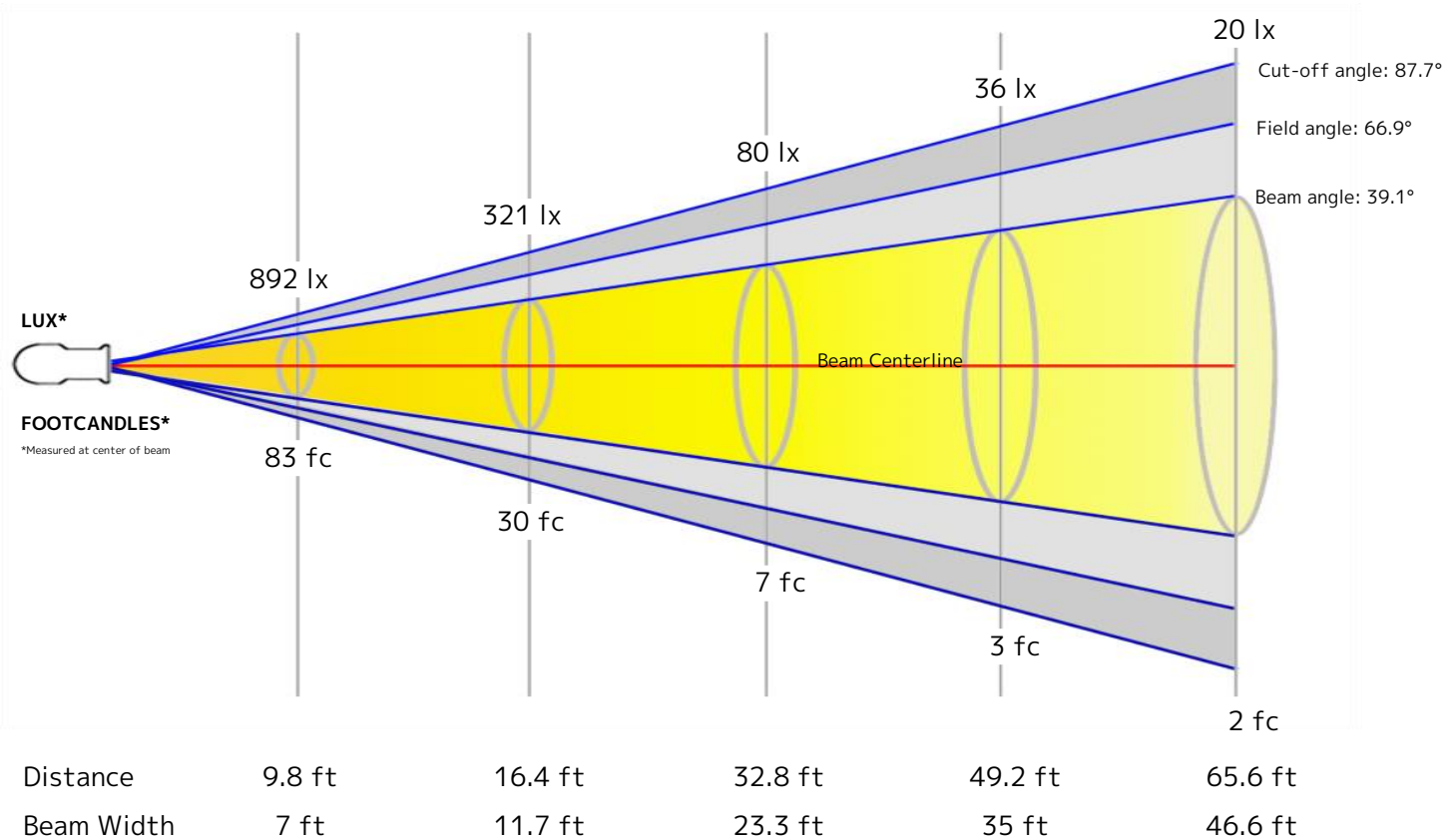
Cutoff Angle (2.5%): 87.7°x 62.4°

Color

Color Temperature: 8559 K

CRI: 88.3

TLCI: 86

TM30 R_F: 87.0

TM30 R_g: 104.6

Power Details

Efficacy: 62 Lumen/Watt

Power: 74.2 W

Supply Voltage: 120 V

Current: 0.627 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	2.1 m	3.6 m	7.1 m	10.7 m	14.2 m

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	7 ft	11.7 ft	23.3 ft	35 ft	46.6 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	8032	2008	892	502	321	223	164	125	99	80	66	56	48	41	36	31	28	25	22	20
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	746.2	186.5	82.9	46.6	29.8	20.7	15.2	11.7	9.2	7.5	6.2	5.2	4.4	3.8	3.3	2.9	2.6	2.3	2.1	1.9

Measurement Date: 8/16/2024

Six+ Bar S (60°x10°, 8500K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution
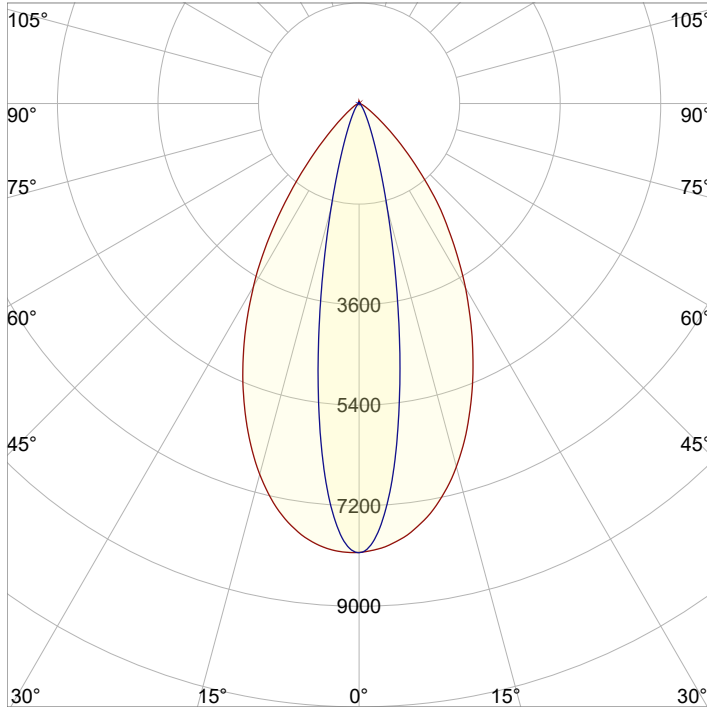
	Plane A	Plane B
Beam Angle - 50%	**Beam Angle - 50%**	
39.1°	**20.4°**	
Field Angle - 10%	**Field Angle - 10%**	
66.9°	**40.9°**	
Cutoff Angle - 2.5%	**Cutoff Angle - 2.5%**	
87.7°	**62.4°**	

ISO Diagrams
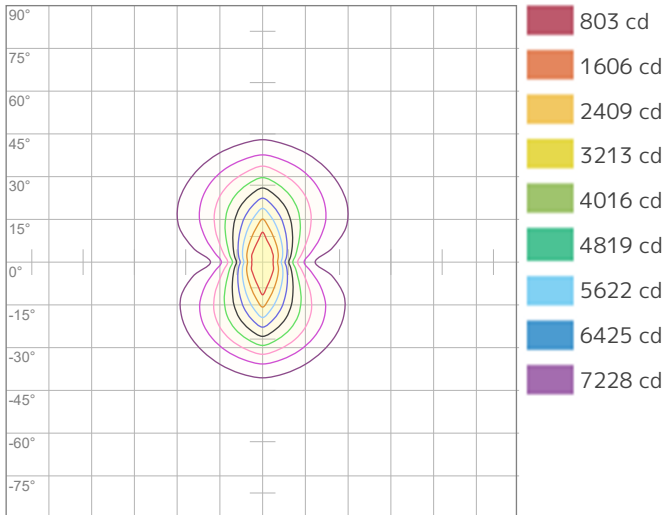
803 cd	
1606 cd	
2409 cd	
3213 cd	
4016 cd	
4819 cd	
5622 cd	
6425 cd	
7228 cd	

ISO Candela Diagram

Conditions:
Number of c-planes: 4
Candela at center: 8032 cd

2.41 lx	
4.02 lx	
8.03 lx	
24.1 lx	
40.2 lx	
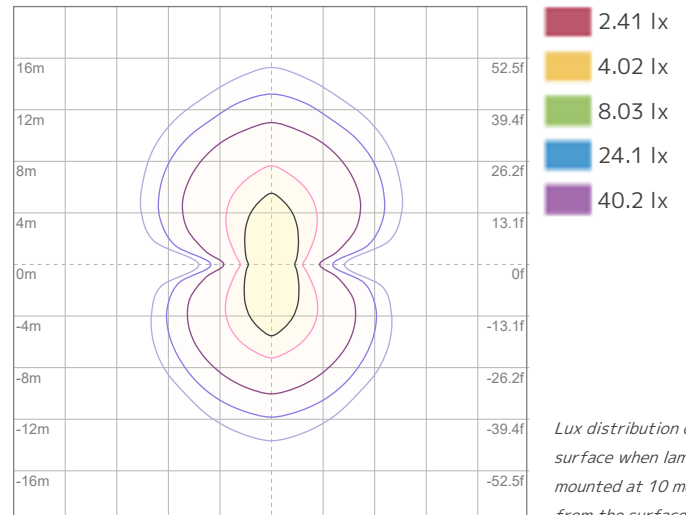
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

ISO LUX Diagram

Conditions:
Number of c-planes: 4
LUX at center: 80.3 lx

Linear Distribution
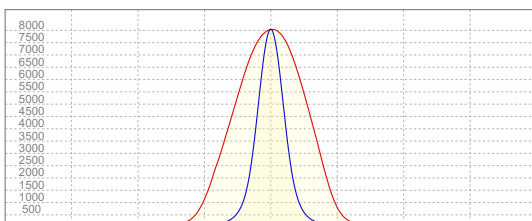
Peak Candela

8039 cd

Calculate Center Beam Intensities

$$lux = 8039 / distance(m)^2$$

$$fc = 8039 / distance(ft)^2$$

Measurement Date: 8/16/2024

Elation — Six+ Bar S (1°x40°, Full Output, No UV)

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 4295 lm

Peak Intensity: 13801 cd

Beam
Beam Angle (50%): 29.2°x 39.9°

Field Angle (10%): 50°x 65.1°

Cutoff Angle (2.5%): 67.9°x 82.1°

Color
Color Temperature: 7080 K

CRI: 67.2

TLCI: 76

TM30 R_F: 77.9

TM30 R_g: 120.5

Power Details
Efficacy: 48 Lumen/Watt
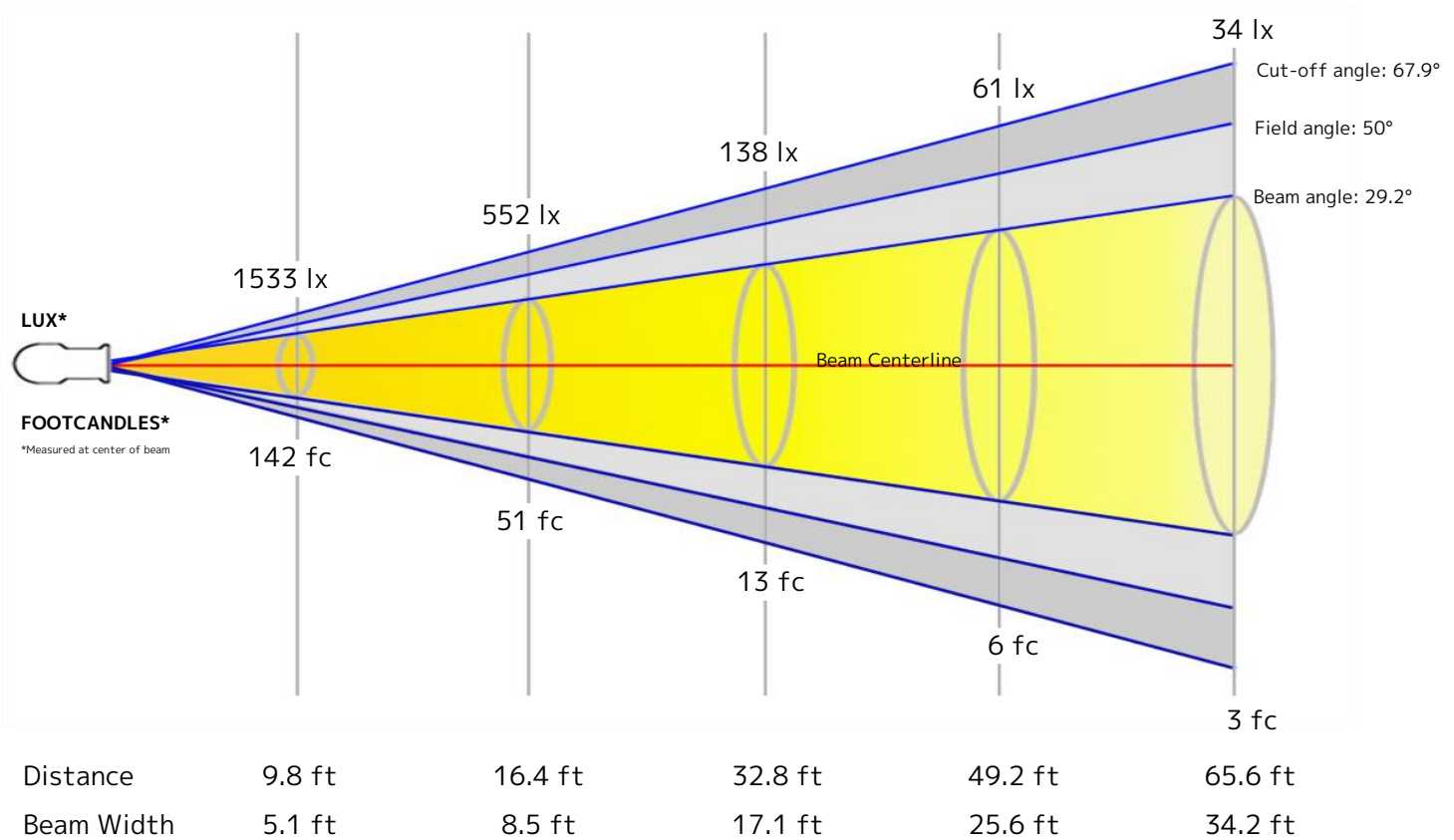
Power: 88.8 W

Supply Voltage: 120 V

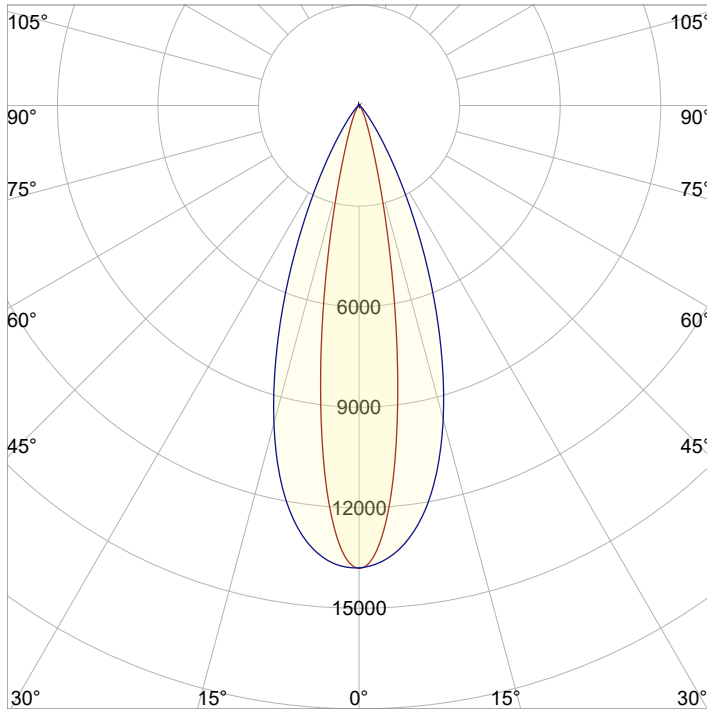Current: 0.748 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.6 m	5.2 m	7.8 m	10.4 m

34 lx
Cut-off angle: 67.9°

61 lx
Field angle: 50°

138 lx
Beam angle: 29.2°

552 lx

1533 lx

LUX*

Beam Centerline

FOOTCANDLES*

*Measured at center of beam

142 fc

51 fc

13 fc

6 fc

3 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.1 ft	8.5 ft	17.1 ft	25.6 ft	34.2 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	13793	3448	1533	862	552	383	281	216	170	138	114	96	82	70	61	54	48	43	38	34
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1281.4	320.3	142.4	80.1	51.3	35.6	26.2	20	15.8	12.8	10.6	8.9	7.6	6.5	5.7	5	4.4	4	3.5	3.2

Measurement Date: 8/16/2024

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

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution

Plane A		Plane B	
Beam Angle - 50%		**Beam Angle - 50%**	
29.2°		39.9°	
Field Angle - 10%		**Field Angle - 10%**	
50°		65.1°	
Cutoff Angle - 2.5%		**Cutoff Angle - 2.5%**	
67.9°		82.1°	

ISO Diagrams

■	1379 cd
■	2759 cd
■	4138 cd
■	5517 cd
■	6896 cd
■	8276 cd
■	9655 cd
■	11034 cd
■	12413 cd

ISO Candela Diagram

Conditions:
Number of c-planes: 4
Candela at center: 13793 cd

■	4.14 lx
■	6.90 lx
■	13.8 lx
■	41.4 lx
■	69.0 lx

ISO LUX Diagram

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

Conditions:
Number of c-planes: 4
LUX at center: 138 lx

Linear Distribution
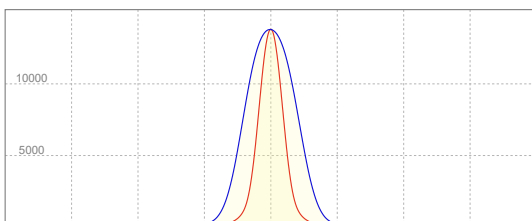
Peak Candela
13801 cd

Calculate Center Beam Intensities

$$lux = 13801 / distance(m)^2$$
$$fc = 13801 / distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (1°x40°, Full Output)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 4374 lm

Peak Intensity: 14027 cd

Beam

Beam Angle (50%): 29.2°x 39.9°

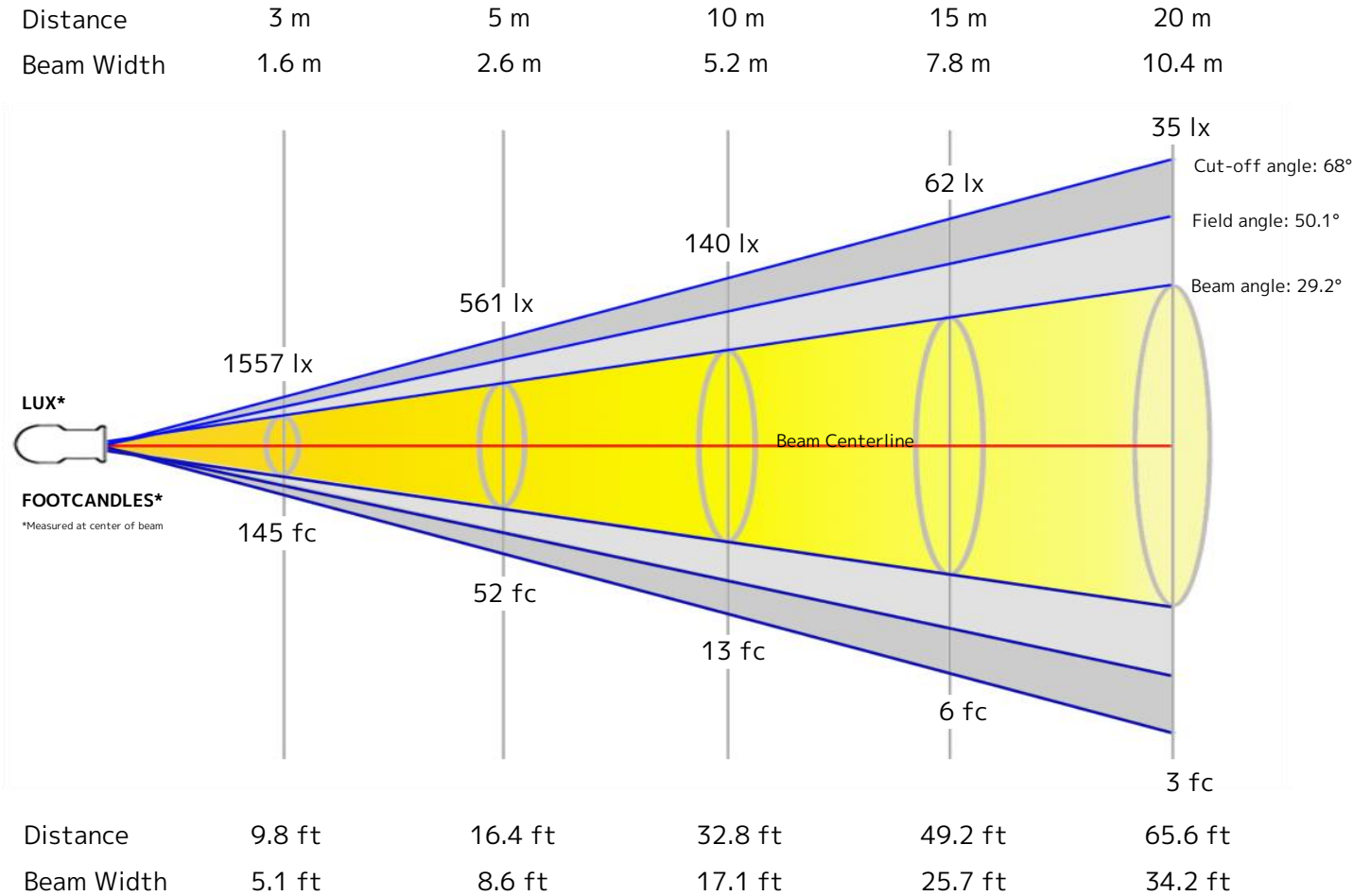Field Angle (10%): 50.1°x 65.1°

Cutoff Angle (2.5%): 68°x 82.2°

Color

Color Temperature: 7334 K

CRI: 65.0

TLCI: 74

TM30 R_F: 76.3

TM30 R_g: 121.6

Power Details

Efficacy: 43 Lumen/Watt

Power: 102.6 W

Supply Voltage: 119 V

Current: 0.868 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.6 m	5.2 m	7.8 m	10.4 m

LUX*

FOOTCANDLES*

*Measured at center of beam

35 lx

Cut-off angle: 68°

62 lx

Field angle: 50.1°

140 lx

Beam angle: 29.2°

561 lx

1557 lx

Beam Centerline

145 fc

52 fc

13 fc

6 fc

3 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.1 ft	8.6 ft	17.1 ft	25.7 ft	34.2 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	14014	3503	1557	876	561	389	286	219	173	140	116	97	83	71	62	55	48	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	1301.9	325.5	144.7	81.4	52.1	36.2	26.6	20.3	16.1	13	10.8	9	7.7	6.6	5.8	5.1	4.5	4	3.6	3.3

Measurement Date: 8/16/2024

Angular Distribution
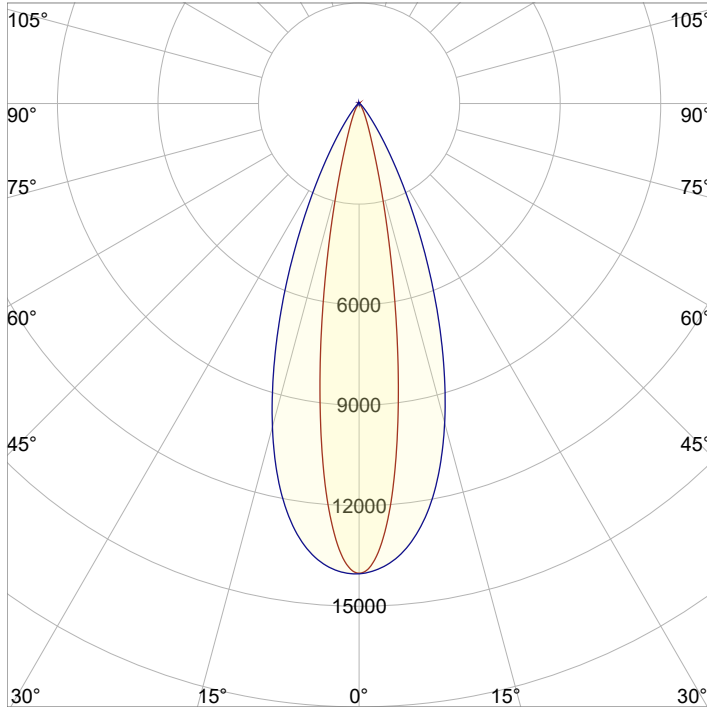
Plane A	Plane B
Beam Angle - 50%	**Beam Angle - 50%**
29.2°	**39.9°**
Field Angle - 10%	**Field Angle - 10%**
50.1°	**65.1°**
Cutoff Angle - 2.5%	**Cutoff Angle - 2.5%**
68°	**82.2°**

ISO Diagrams

■	1401 cd
■	2803 cd
■	4204 cd
■	5605 cd
■	7007 cd
■	8408 cd
■	9810 cd
■	11211 cd
■	12612 cd
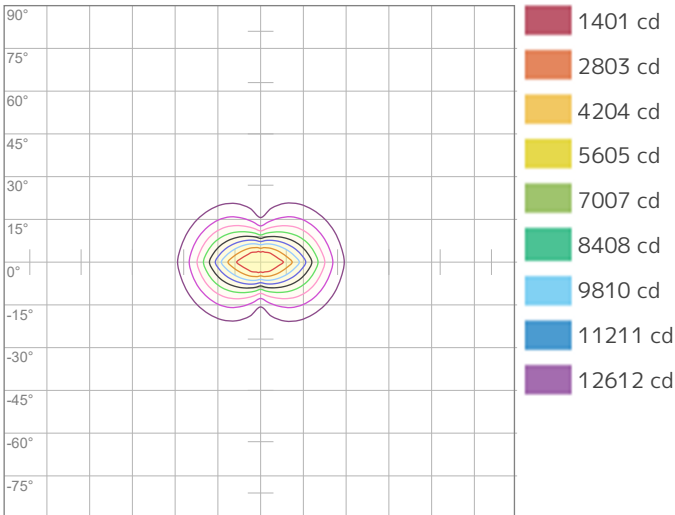
ISO Candela Diagram

Conditions:

Number of c-planes: 4

Candela at center: 14014 cd
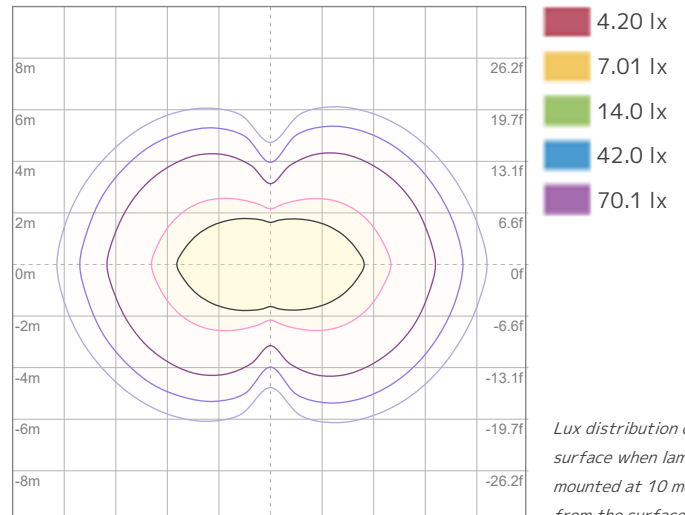
■	4.20 lx
■	7.01 lx
■	14.0 lx
■	42.0 lx
■	70.1 lx

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

ISO LUX Diagram

Conditions:

Number of c-planes: 4

LUX at center: 140 lx

Linear Distribution
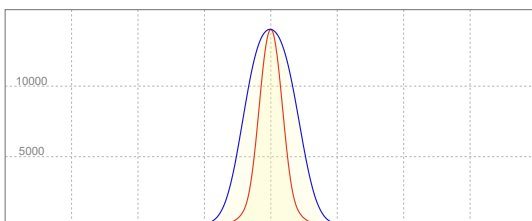
Peak Candela

14027 cd

Calculate Center Beam Intensities

$$lux = 14027 / distance(m)^2$$

$$fc = 14027 / distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (1°x40°, 2400K)

Key Measurements

Output
Total Lumen Output: 2781 lm

Peak Intensity: 9038 cd

Beam
Beam Angle (50%): 29.1°x 39.8°

Field Angle (10%): 49.8°x 64.9°

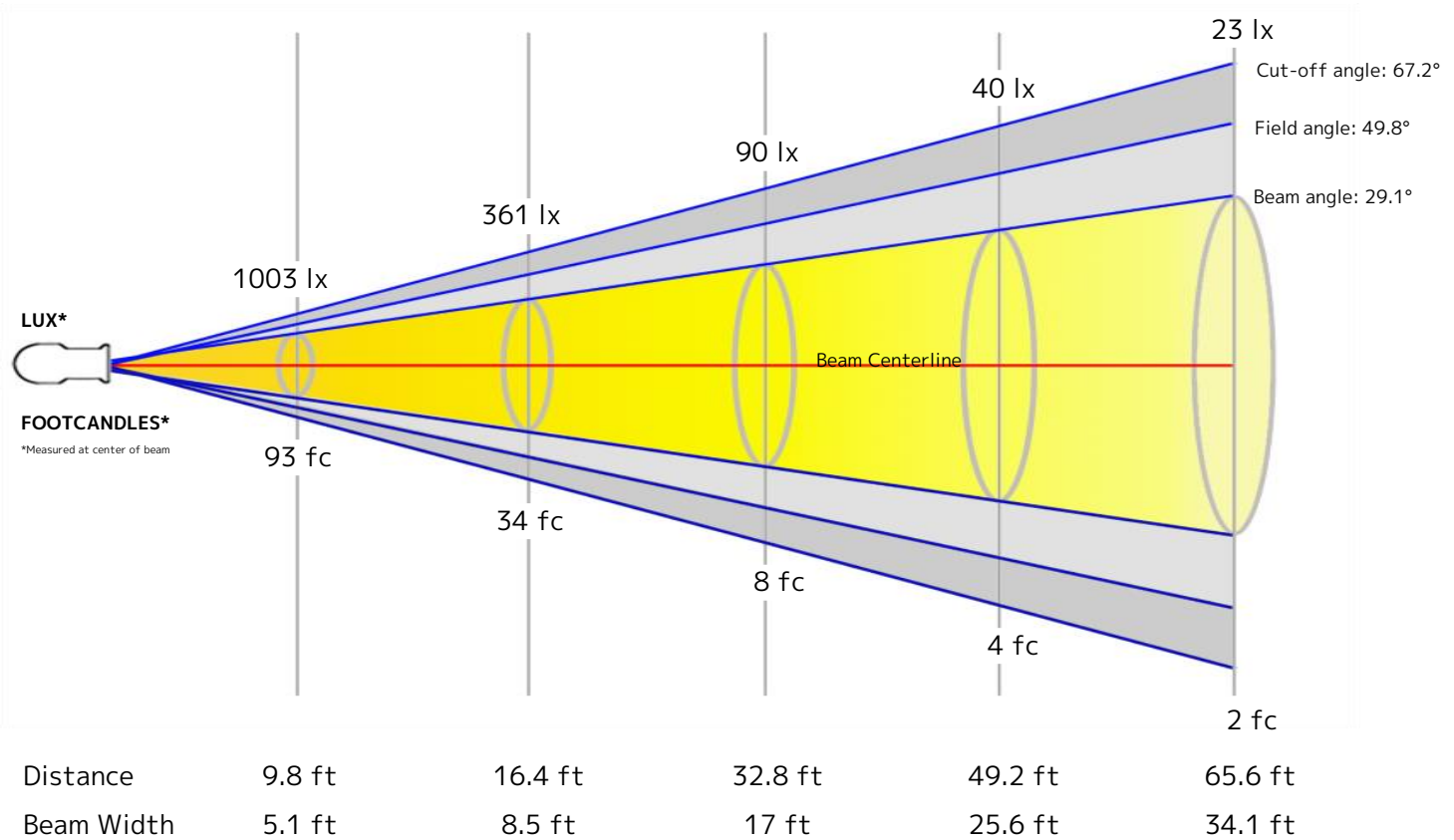Cutoff Angle (2.5%): 67.2°x 81.7°

Color
Color Temperature: 2389 K

CRI: 84.1

TLCI: 70

TM30 R_F: 87.4

TM30 R_g: 108.8

Power Details
Efficacy: 51 Lumen/Watt

Power: 54.5 W

Supply Voltage: 120 V

Current: 0.466 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.6 m	5.2 m	7.8 m	10.4 m

LUX*

FOOTCANDLES*

*Measured at center of beam

1003 lx · 361 lx · 90 lx · 40 lx · 23 lx

93 fc · 34 fc · 8 fc · 4 fc · 2 fc

Cut-off angle: 67.2°

Field angle: 49.8°

Beam angle: 29.1°

Beam Centerline

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.1 ft	8.5 ft	17 ft	25.6 ft	34.1 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	9025	2256	1003	564	361	251	184	141	111	90	75	63	53	46	40	35	31	28	25	23
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	838.5	209.6	93.2	52.4	33.5	23.3	17.1	13.1	10.4	8.4	6.9	5.8	5	4.3	3.7	3.3	2.9	2.6	2.3	2.1

Measurement Date: 8/16/2024

Angular Distribution
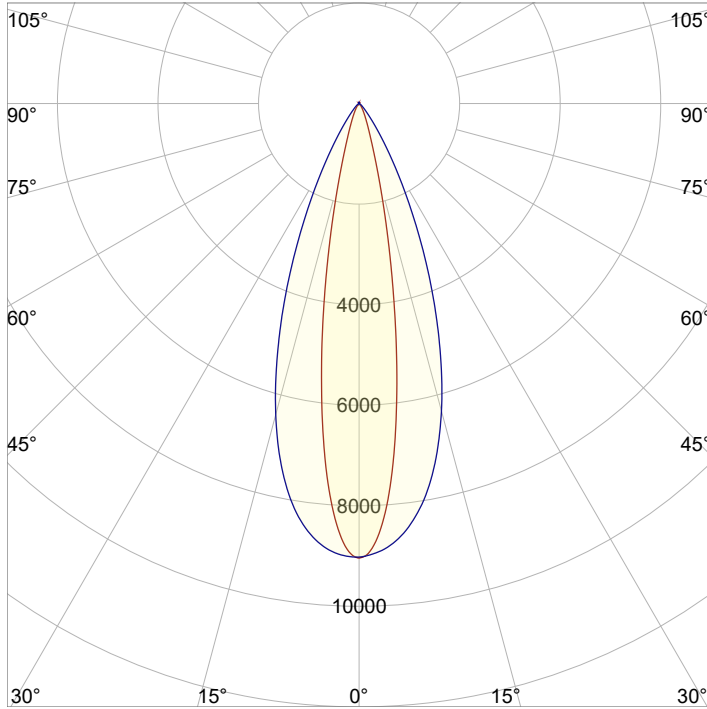
Plane A	Plane B
Beam Angle - 50%	**Beam Angle - 50%**
29.1°	**39.8°**
Field Angle - 10%	**Field Angle - 10%**
49.8°	**64.9°**
Cutoff Angle - 2.5%	**Cutoff Angle - 2.5%**
67.2°	**81.7°**

ISO Diagrams

◼	903 cd
◼	1805 cd
◼	2708 cd
◼	3610 cd
◼	4513 cd
◼	5415 cd
◼	6318 cd
◼	7220 cd
◼	8123 cd

ISO Candela Diagram

◼	2.71 lx
◼	4.51 lx
◼	9.03 lx
◼	27.1 lx
◼	45.1 lx

ISO LUX Diagram

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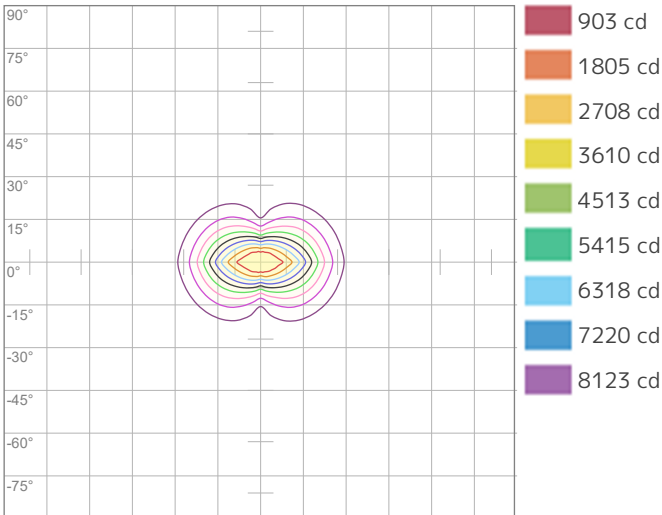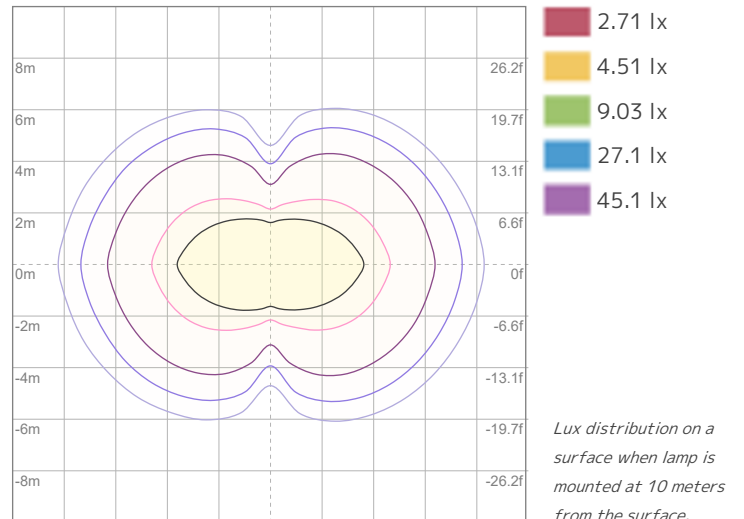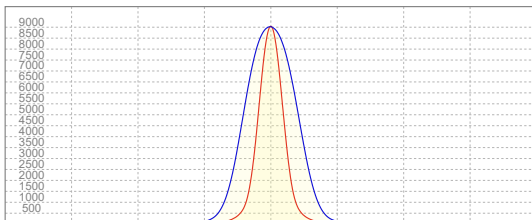
Conditions:

Number of c-planes: 4

Candela at center: 9025 cd

Conditions:

Number of c-planes: 4

LUX at center: 90.3 lx

Linear Distribution

Peak Candela

9038 cd

Calculate Center Beam Intensities

$$lux = 9038 / distance(m)^2$$

$$fc = 9038 / distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (1°x40°, 3200K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 3581 lm

Peak Intensity: 11446 cd

Beam

Beam Angle (50%): 29.2°x 39.9°

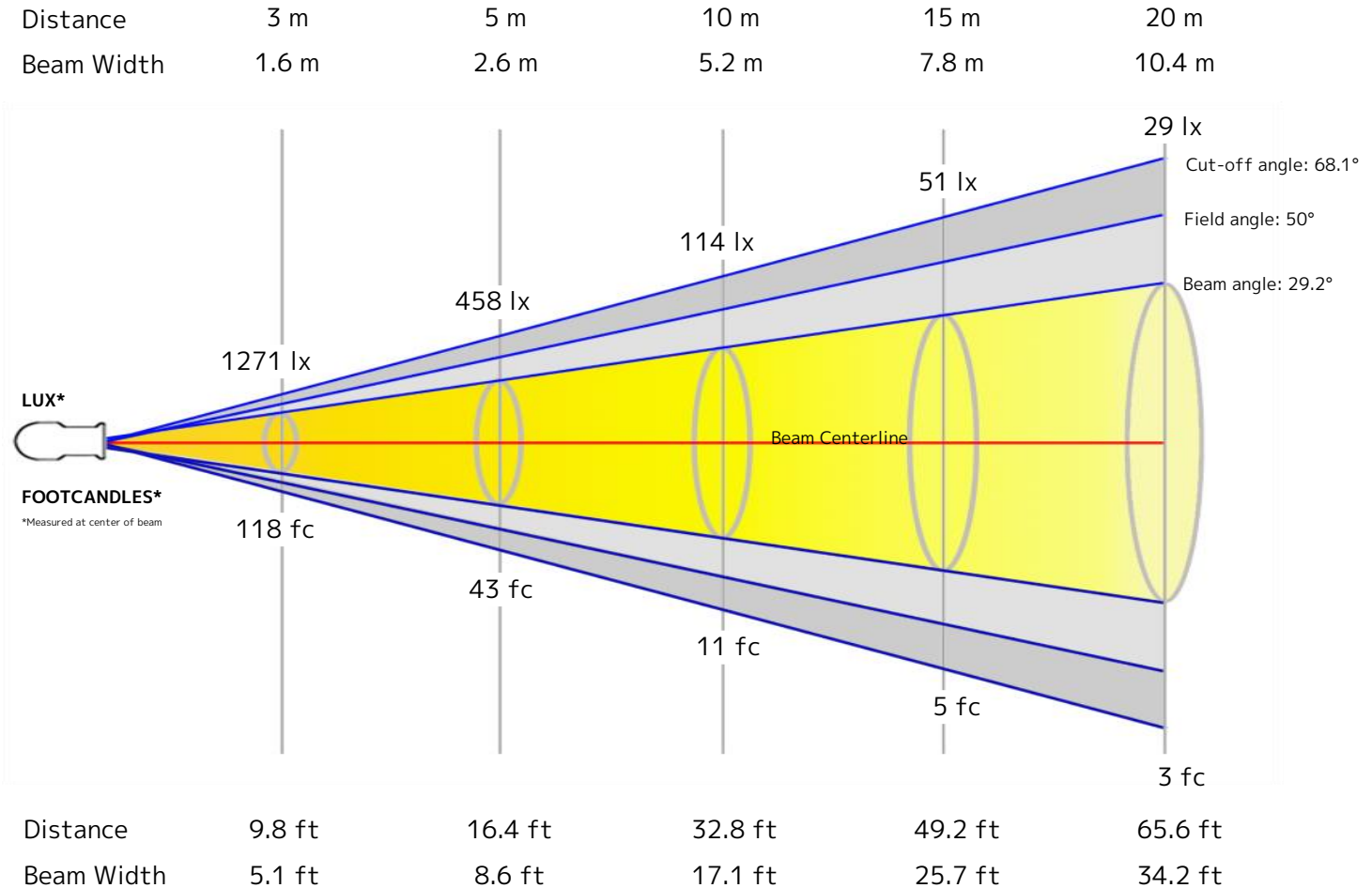Field Angle (10%): 50°x 65.1°

Cutoff Angle (2.5%): 68.1°x 82.3°

Color

Color Temperature: 3147 K

CRI: 88.5

TLCI: 78

TM30 R_F: 90.5

TM30 R_g: 108.4

Power Details

Efficacy: 55 Lumen/Watt

Power: 64.8 W

Supply Voltage: 120 V

Current: 0.551 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.6 m	5.2 m	7.8 m	10.4 m

LUX*

FOOTCANDLES*
*Measured at center of beam

29 lx
Cut-off angle: 68.1°
51 lx
Field angle: 50°
114 lx
Beam angle: 29.2°
458 lx
1271 lx
Beam Centerline
118 fc
43 fc
11 fc
5 fc
3 fc

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.1 ft	8.6 ft	17.1 ft	25.7 ft	34.2 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	11438	2860	1271	715	458	318	233	179	141	114	95	79	68	58	51	45	40	35	32	29
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	1062.7	265.7	118.1	66.4	42.5	29.5	21.7	16.6	13.1	10.6	8.8	7.4	6.3	5.4	4.7	4.2	3.7	3.3	2.9	2.7
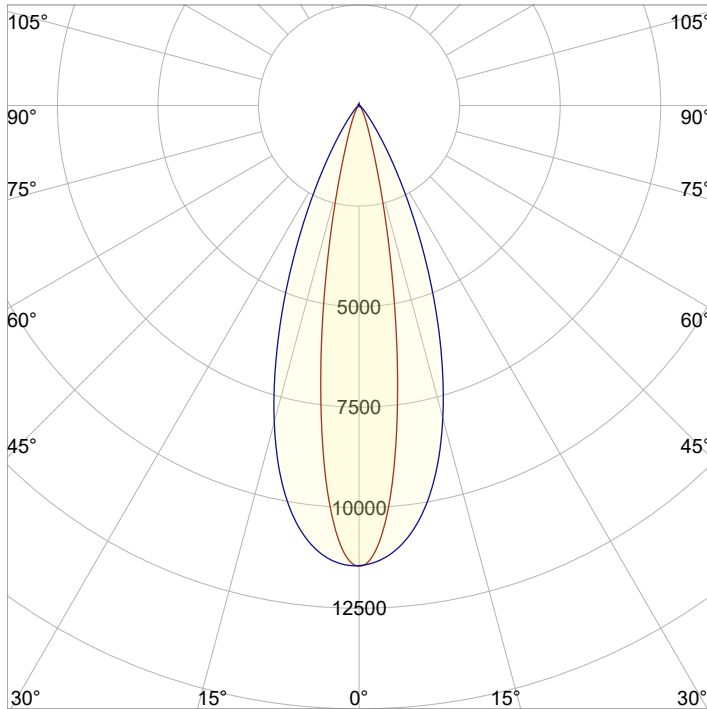
Measurement Date: 8/16/2024

Angular Distribution

Plane A	Plane B
Beam Angle - 50%	**Beam Angle - 50%**
29.2°	**39.9°**
Field Angle - 10%	**Field Angle - 10%**
50°	**65.1°**
Cutoff Angle - 2.5%	**Cutoff Angle - 2.5%**
68.1°	**82.3°**

ISO Diagrams

1144 cd	
2288 cd	
3431 cd	
4575 cd	
5719 cd	
6863 cd	
8007 cd	
9151 cd	
10294 cd	

ISO Candela Diagram

3.43 lx	
5.72 lx	
11.4 lx	
34.3 lx	
57.2 lx	

ISO LUX Diagram

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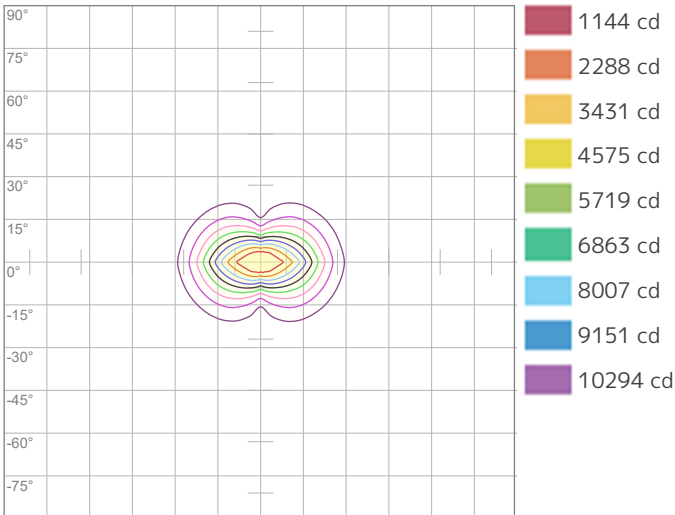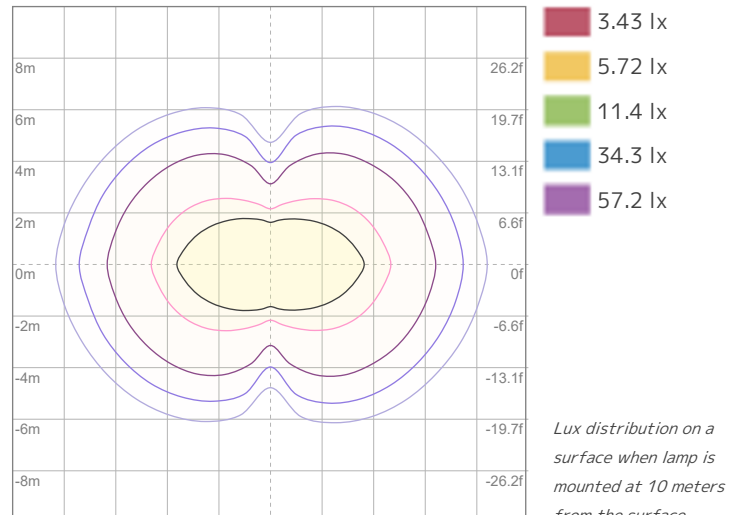
Conditions:

Number of c-planes: 4

Candela at center: 11438 cd

Conditions:

Number of c-planes: 4

LUX at center: 114 lx

Linear Distribution
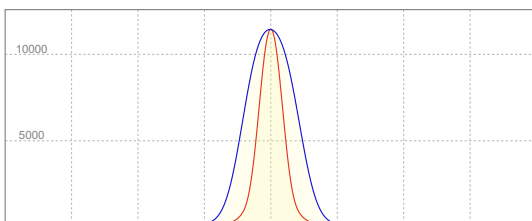
Peak Candela

11446 cd

Calculate Center Beam Intensities

$$lux = 11446 / distance(m)^2$$

$$fc = 11446 / distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (1°x40°, 4500K)

Key Measurements

Output
Total Lumen Output: 3713 lm

Peak Intensity: 11965 cd

Beam
Beam Angle (50%): 29.2°x 39.9°

Field Angle (10%): 50°x 65°
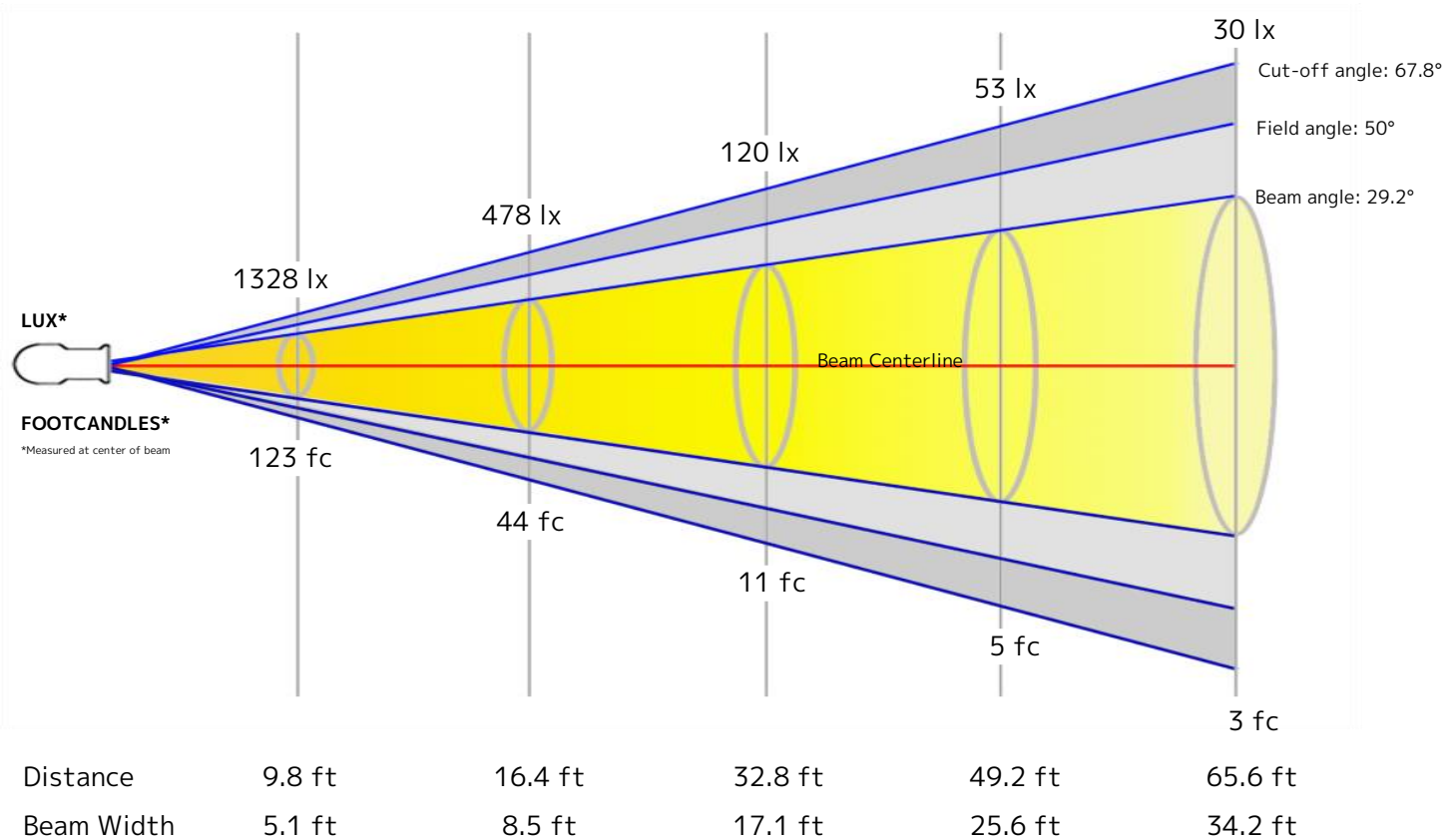
Cutoff Angle (2.5%): 67.8°x 81.9°

Color
Color Temperature: 4534 K

CRI: 90.5

TLCI: 81

TM30 R_F: 90.3

TM30 R_g: 107.8

Power Details
Efficacy: 54 Lumen/Watt

Power: 68.4 W

Supply Voltage: 120 V

Current: 0.578 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.6 m	5.2 m	7.8 m	10.4 m

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.1 ft	8.5 ft	17.1 ft	25.6 ft	34.2 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	11953	2988	1328	747	478	332	244	187	148	120	99	83	71	61	53	47	41	37	33	30
FT	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
FC	1110.5	277.6	123.4	69.4	44.4	30.8	22.7	17.4	13.7	11.1	9.2	7.7	6.6	5.7	4.9	4.3	3.8	3.4	3.1	2.8

Measurement Date: 8/16/2024

Angular Distribution
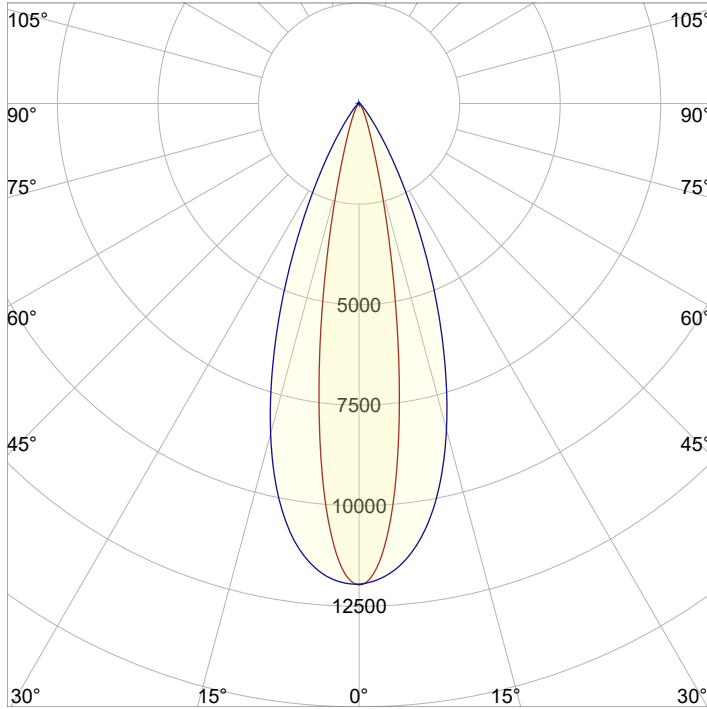
	Plane A	Plane B
Beam Angle - 50%	29.2°	39.9°
Field Angle - 10%	50°	65°
Cutoff Angle - 2.5%	67.8°	81.9°

ISO Diagrams

ISO Candela Diagram

Color	cd
	1195 cd
	2391 cd
	3586 cd
	4781 cd
	5976 cd
	7172 cd
	8367 cd
	9562 cd
	10758 cd

ISO LUX Diagram

Color	lx
	3.59 lx
	5.98 lx
	12.0 lx
	35.9 lx
	59.8 lx

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.
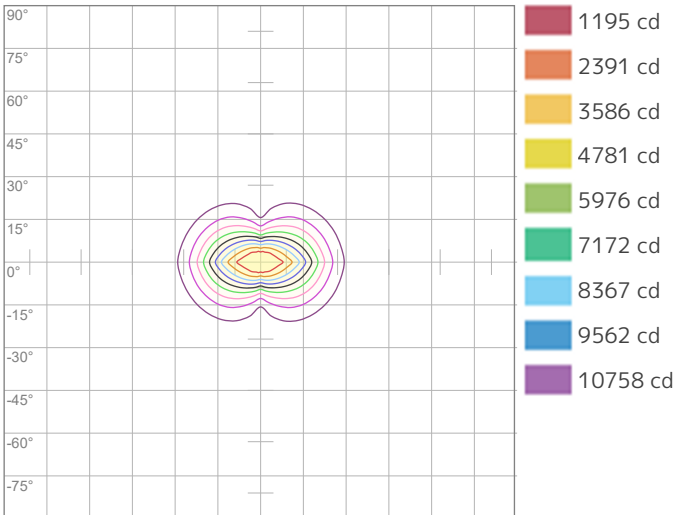
Conditions:
Number of c-planes: 4
Candela at center: 11953 cd
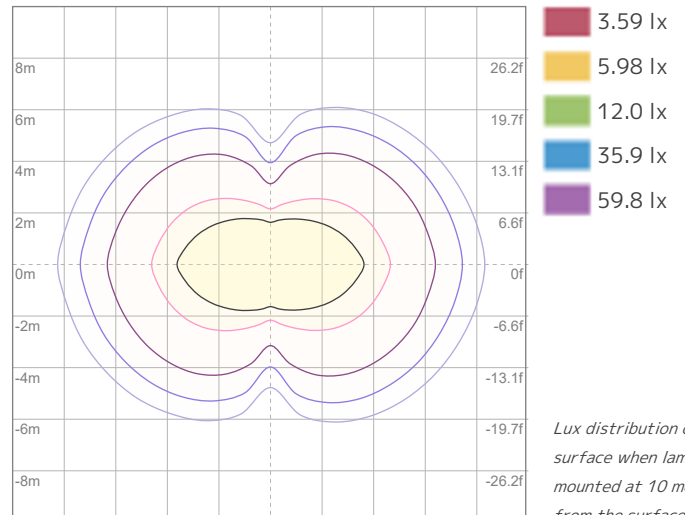
Conditions:
Number of c-planes: 4
LUX at center: 120 lx

Linear Distribution
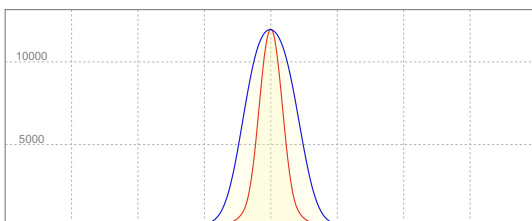
Peak Candela

11965 cd

Calculate Center Beam Intensities

$$lux = 11965 / distance(m)^2$$

$$fc = 11965 / distance(ft)^2$$

Measurement Date: 8/16/2024

ELATION

Six+ Bar S (1°x40°, 6500K)

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output

Total Lumen Output: 4076 lm

Peak Intensity: 12827 cd

Beam

Beam Angle (50%): 29.3°x 40°

Field Angle (10%): 50.3°x 65.3°

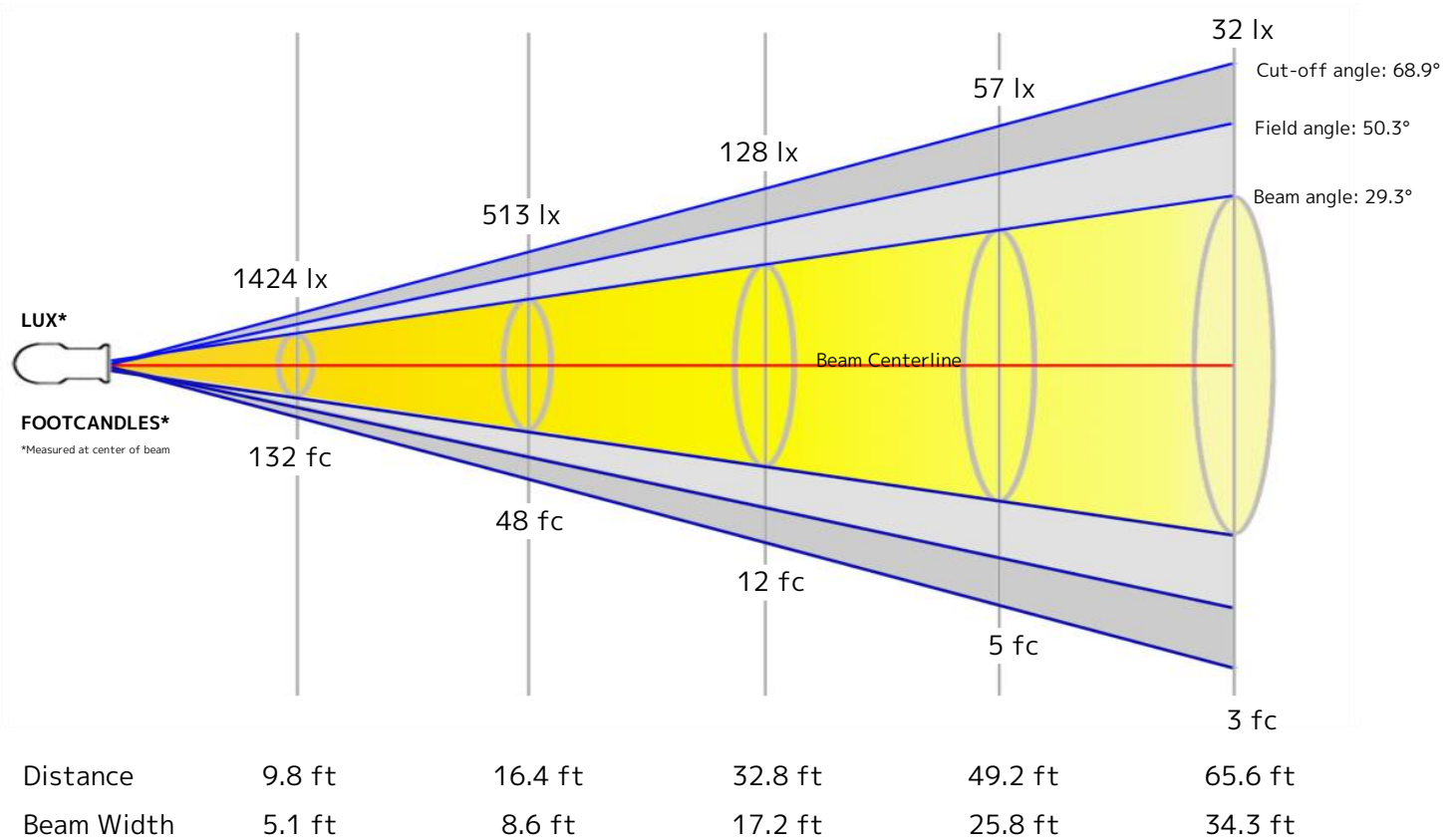Cutoff Angle (2.5%): 68.9°x 82.9°

Color

Color Temperature: 6514 K

CRI: 89.1

TLCI: 85

TM30 R_F: 88.4

TM30 R_g: 106.8

Power Details

Efficacy: 54 Lumen/Watt

Power: 75.3 W

Supply Voltage: 120 V

Current: 0.632 A

Beam Details

Distance	3 m	5 m	10 m	15 m	20 m
Beam Width	1.6 m	2.6 m	5.2 m	7.9 m	10.5 m

Distance	9.8 ft	16.4 ft	32.8 ft	49.2 ft	65.6 ft
Beam Width	5.1 ft	8.6 ft	17.2 ft	25.8 ft	34.3 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	12817	3204	1424	801	513	356	262	200	158	128	106	89	76	65	57	50	44	40	36	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	1190.7	297.7	132.3	74.4	47.6	33.1	24.3	18.6	14.7	11.9	9.8	8.3	7	6.1	5.3	4.7	4.1	3.7	3.3	3

Measurement Date: 8/16/2024

Angular Distribution
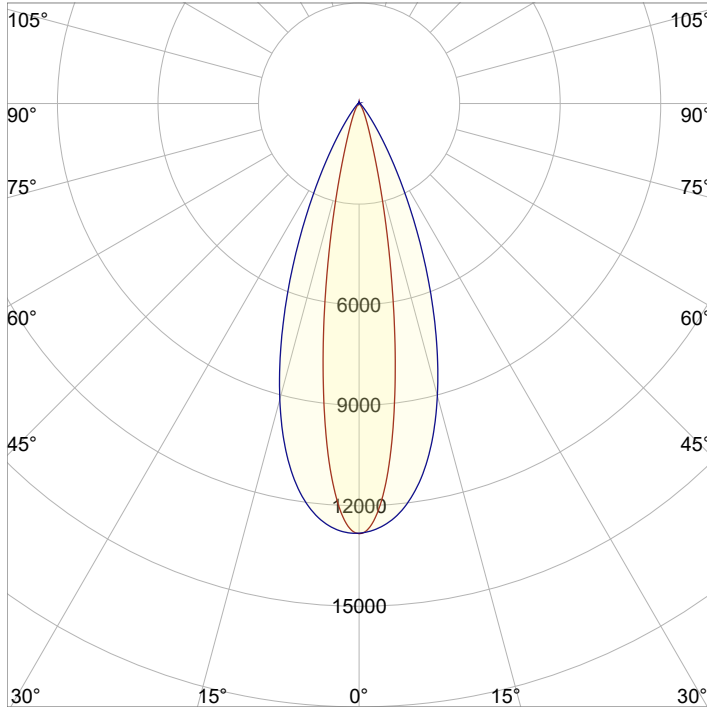
	Plane A	Plane B
Beam Angle - 50%	**29.3°**	**40°**
Field Angle - 10%	**50.3°**	**65.3°**
Cutoff Angle - 2.5%	**68.9°**	**82.9°**

ISO Diagrams

ISO Candela Diagram

1282 cd	
2563 cd	
3845 cd	
5127 cd	
6409 cd	
7690 cd	
8972 cd	
10254 cd	
11535 cd	
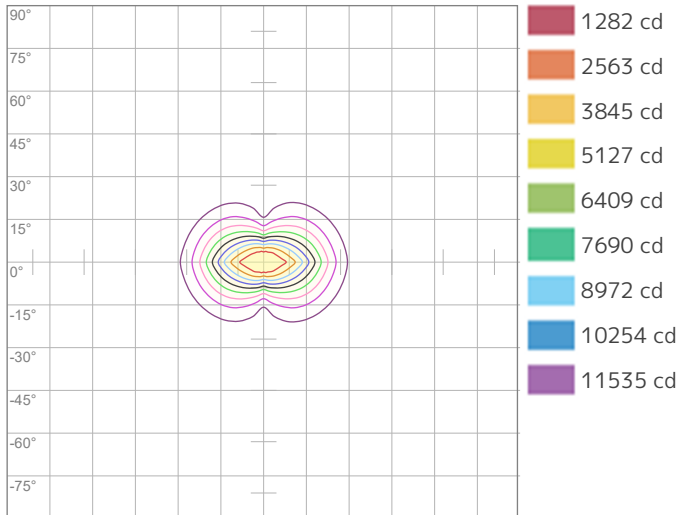
Conditions:
Number of c-planes: 4
Candela at center: 12817 cd

ISO LUX Diagram

3.85 lx	
6.41 lx	
12.8 lx	
38.5 lx	
64.1 lx	

Lux distribution on a surface when lamp is mounted at 10 meters from the surface.
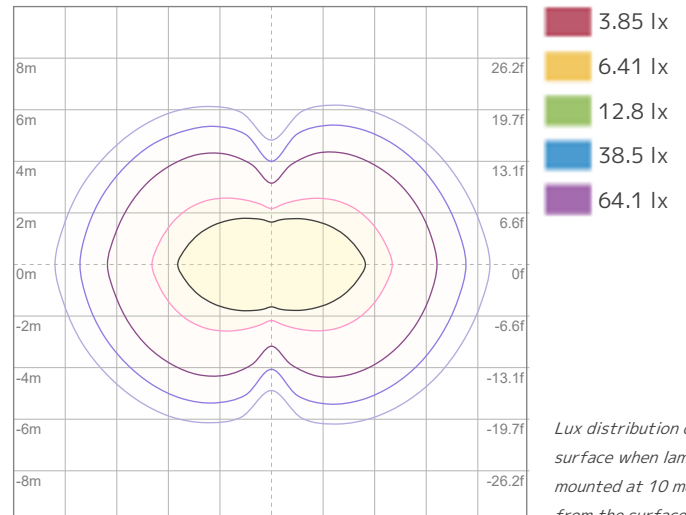
Conditions:
Number of c-planes: 4
LUX at center: 128 lx

Linear Distribution
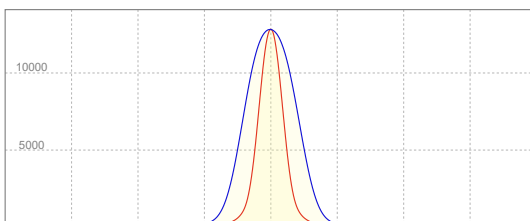
Peak Candela

12827 cd

Calculate Center Beam Intensities

$$lux = 12827 / distance(m)^2$$

$$fc = 12827 / distance(ft)^2$$

Measurement Date: 8/16/2024

Six+ Bar S (1°x40°, 8500K)

ELATION

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Key Measurements

Output
Total Lumen Output: 3537 lm

Peak Intensity: 2823 cd

Beam
Beam Angle (50%): 63.3°x 63.3°

Field Angle (10%): 113.3°x 113.3°
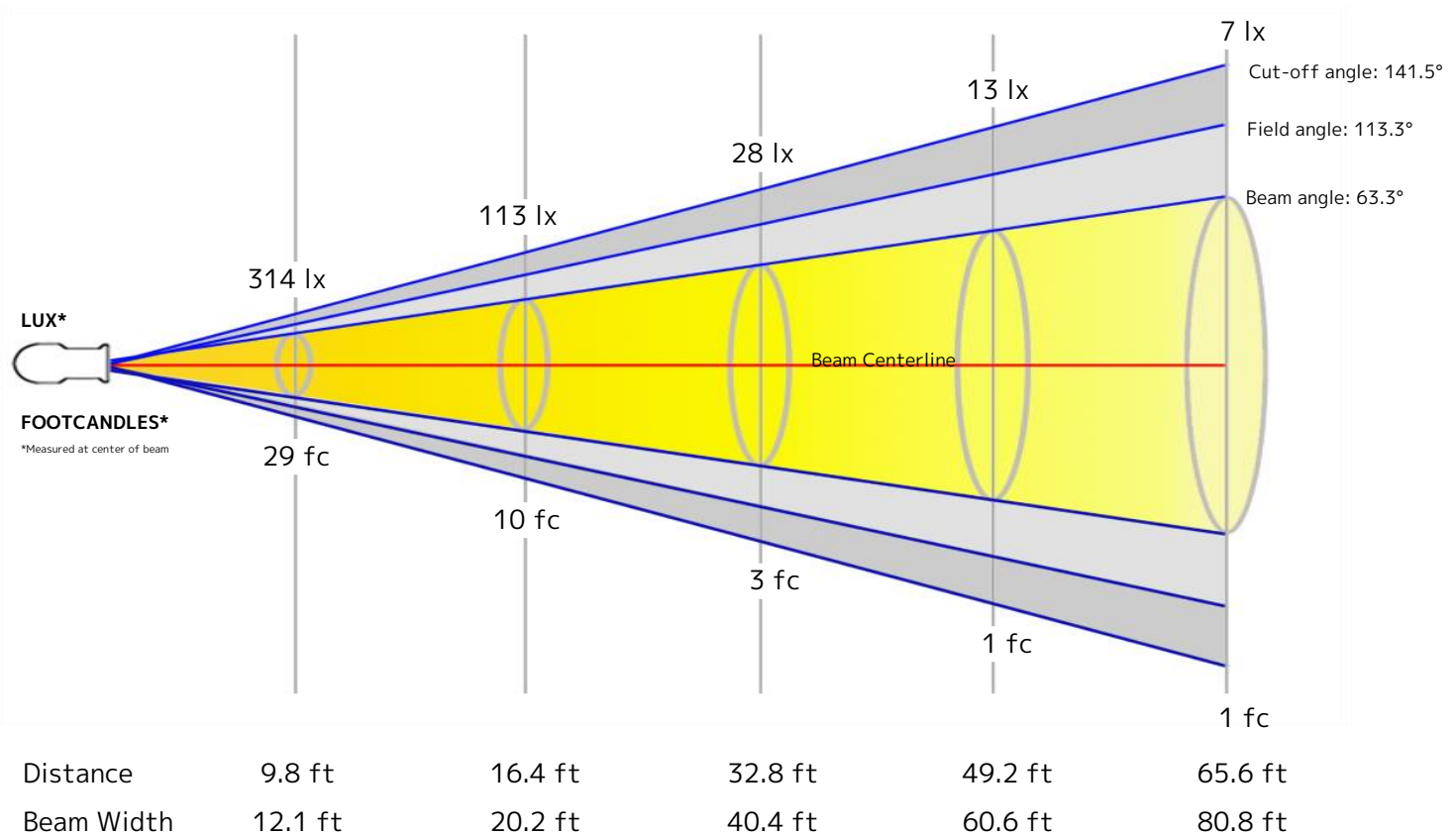
Cutoff Angle (2.5%): 141.5°x 141.5°

Color
Color Temperature: 8487 K

CRI: 87.8

TLCI: 83

TM30 R_F: 86.8

TM30 R_g: 105.3

Power Details
Efficacy: 48 Lumen/Watt

Power: 74.1 W

Supply Voltage: 119 V
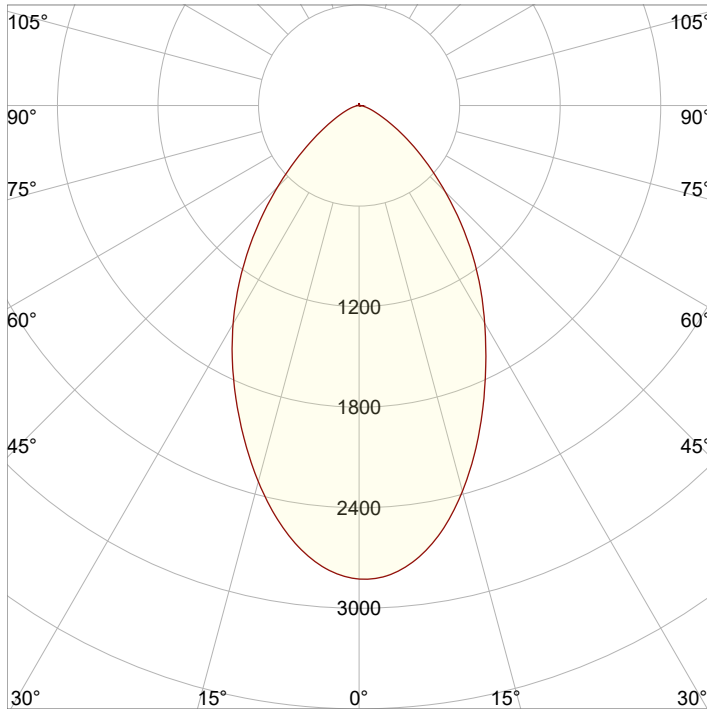
Current: 0.630 A

Beam Details

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

Cut-off angle: 141.5°
Field angle: 113.3°
Beam angle: 63.3°

7 lx
13 lx
28 lx
113 lx
314 lx

LUX*

Beam Centerline

FOOTCANDLES*
*Measured at center of beam

29 fc
10 fc
3 fc
1 fc
1 fc

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

Beam Intensities from 1-20m

M	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
LX	2822	706	314	176	113	78	58	44	35	28	23	20	17	14	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	262.2	65.5	29.1	16.4	10.5	7.3	5.4	4.1	3.2	2.6	2.2	1.8	1.6	1.3	1.2	1	0.9	0.8	0.7	0.7

Measurement Date: 8/19/2024

Elation

Six+ Bar S (1°x40°, 8500K)

VISO SYSTEMS
Prepared For ELATION PROFESSIONAL

Angular Distribution

Plane A	Plane B
Beam Angle - 50%	**Beam Angle - 50%**
63.3°	**63.3°**
Field Angle - 10%	**Field Angle - 10%**
113.3°	**113.3°**
Cutoff Angle - 2.5%	**Cutoff Angle - 2.5%**
141.5°	**141.5°**

ISO Diagrams
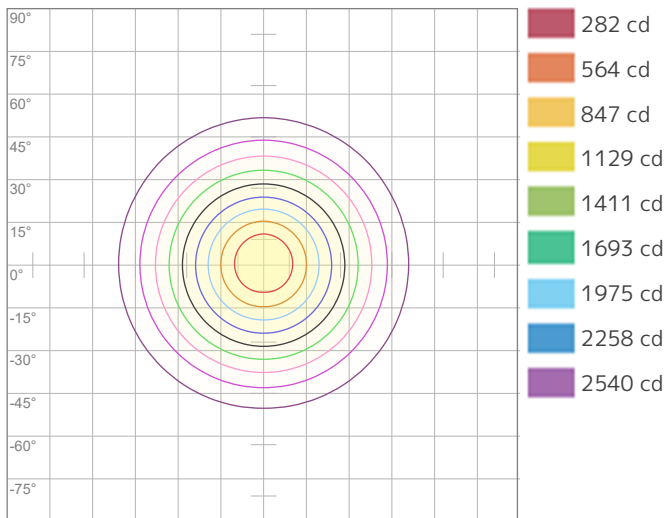
🟥	282 cd
🟧	564 cd
🟨	847 cd
🟨	1129 cd
🟩	1411 cd
🟩	1693 cd
🟦	1975 cd
🟦	2258 cd
🟪	2540 cd

ISO Candela Diagram

Conditions:
Number of c-planes: 2
Candela at center: 2822 cd

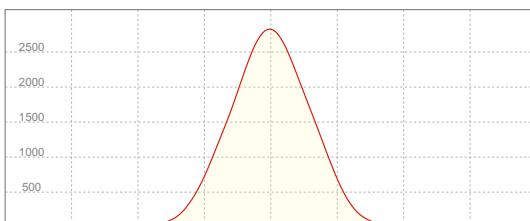|	
🟥	0.847 lx
🟨	1.41 lx
🟩	2.82 lx
🟦	8.47 lx
🟪	14.1 lx
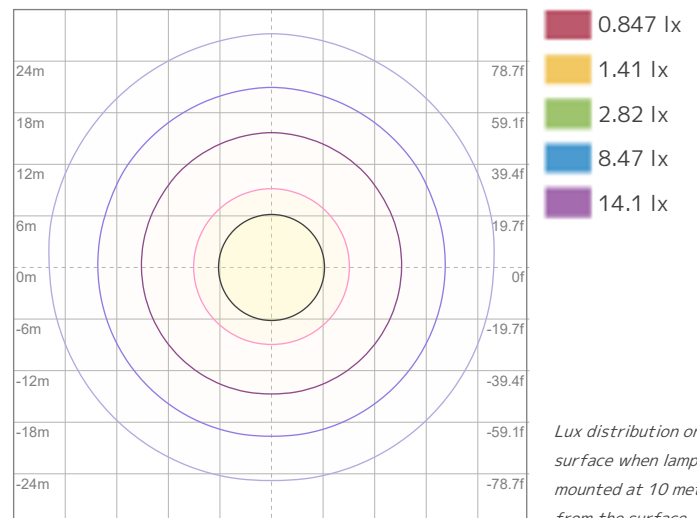
ISO LUX Diagram

Conditions:
Number of c-planes: 2
LUX at center: 28.2 lx

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

Linear Distribution

Peak Candela

2823 cd

Calculate Center Beam Intensities

$$\text{lux} = 2823 / \text{distance(m)}^2$$

$$\text{fc} = 2823 / \text{distance(ft)}^2$$

Measurement Date: 8/19/2024