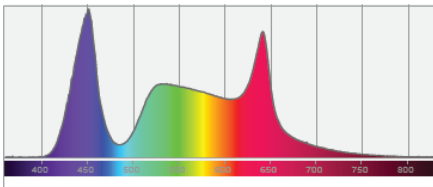
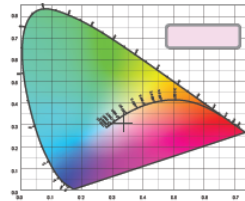


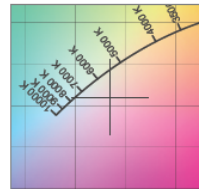
Spectral distribution



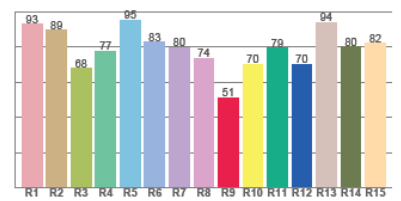
Color coordinates



Zoom color point



CRI R values



Photometric Test Report

*Due to additional product enhancements, an updated version of this report may be available online. Please check www.elationlighting.com for the latest revision/update of this report.

Light Efficiency:

26 Lumen/Watt

Dominant Wavelength:

592 nm

Output:

324 lm

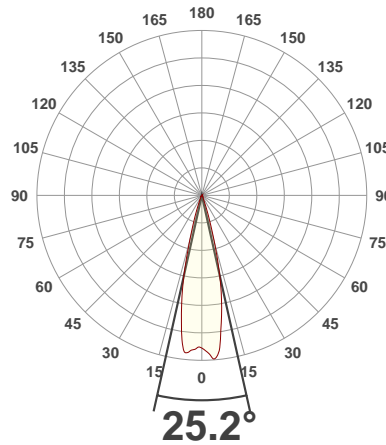
Power:

12.7 W

Peak:

1788 cd

Beam Angle



Test:

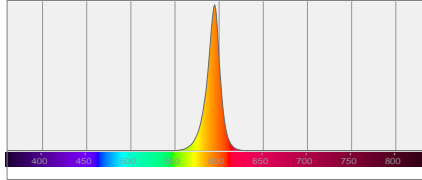
Amber

Date:

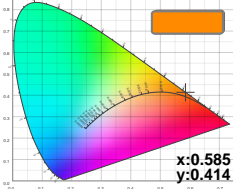
4/5/2019

Note:

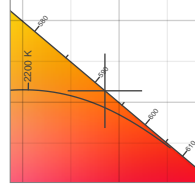
Spectral Distribution



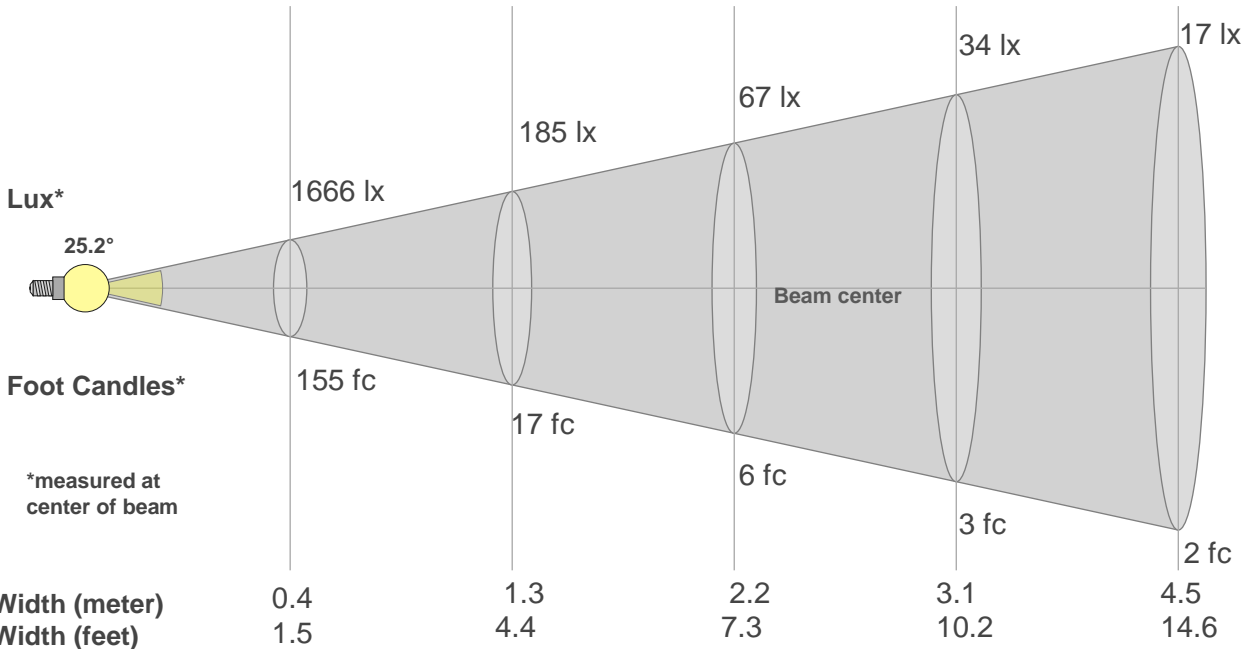
Color Coordinates



Zoom Color Point



Distance (meter)	1	3	5	7	10
Distance (feet)	3.3	9.8	16.4	22.9	32.8



*measured at center of beam

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
25.2°	37.8°	47.7°	100.0%	99.7%

Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	1666	416	185	104	67	46	34	26	21	17	14	12	10	8	7	7	6	5	5	4
fc	154.8	38.7	17.2	9.7	6.2	4.3	3.2	2.4	1.9	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4

Light Efficiency:

9 Lumen/Watt

Dominant Wavelength:

461 nm

Output:

213 lm

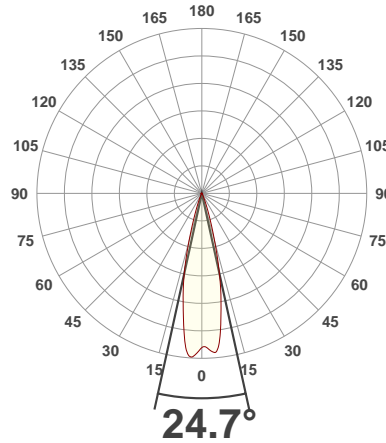
Power:

24.6 W

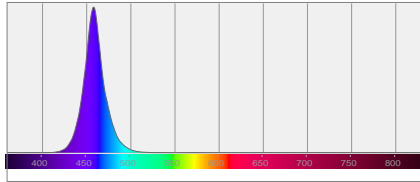
Peak:

1134 cd

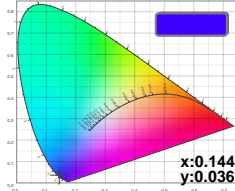
Beam Angle



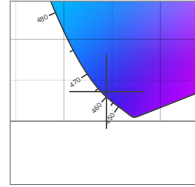
Spectral Distribution



Color Coordinates



Zoom Color Point



Test:

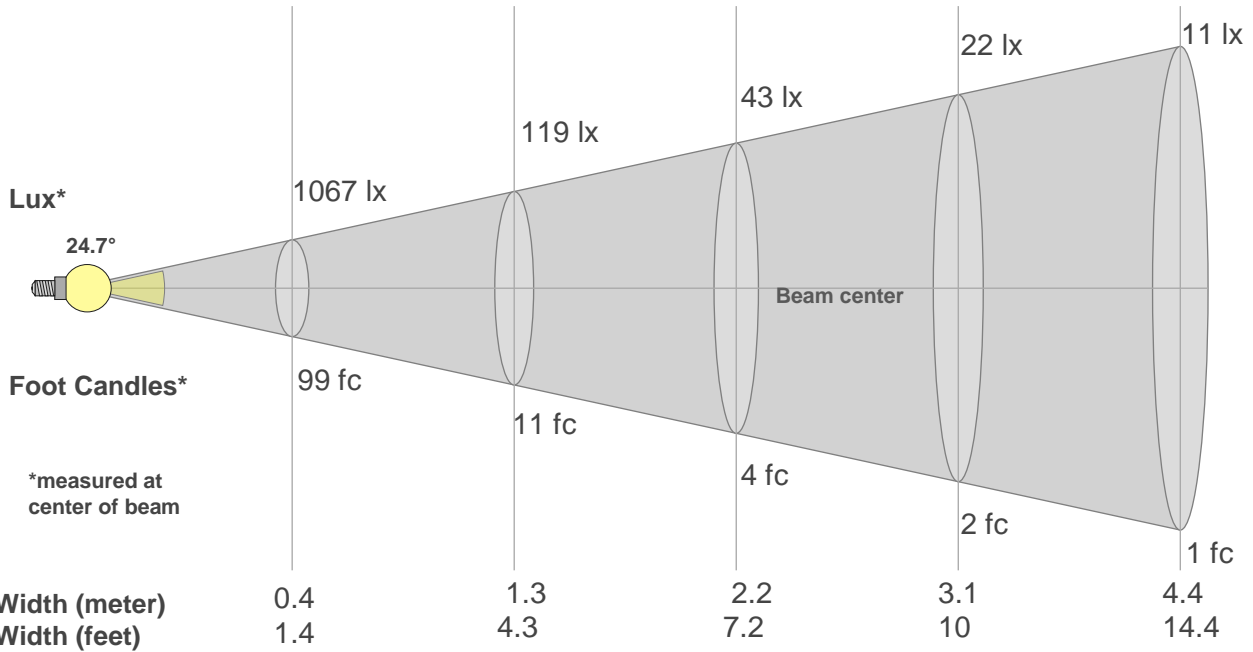
Blue

Date:

4/5/2019

Note:

Distance (meter)	1	3	5	7	10
Distance (feet)	3.3	9.8	16.4	22.9	32.8



Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
24.7°	39°	49.9°	99.5%	98.5%

Beam Intensities from 1-20m

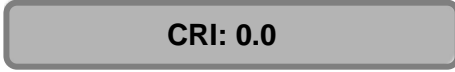
m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	1067	267	119	67	43	30	22	17	13	11	9	7	6	5	5	4	4	3	3	3
fc	99.2	24.8	11	6.2	4	2.8	2	1.5	1.2	1	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.2

Light Efficiency:



Output: 1567 lm

Light Quality:



Peak: 11227 cd

Color Temperature:

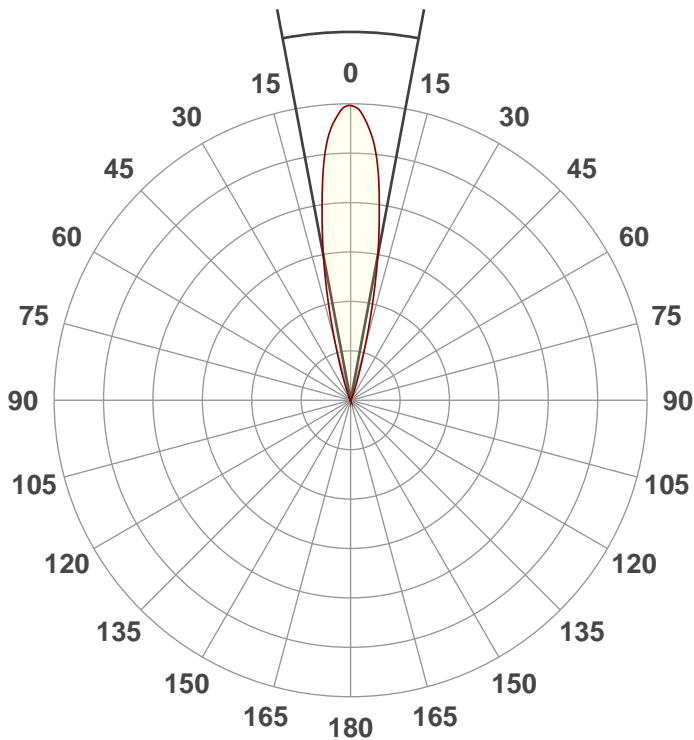


Power: 55.1 W

PF: 0.96

Beam Angle

21.3°



Product Name:

SIXPAR 100

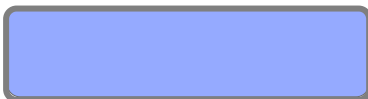
Test:

Full On No UV

Date:

4/4/2019

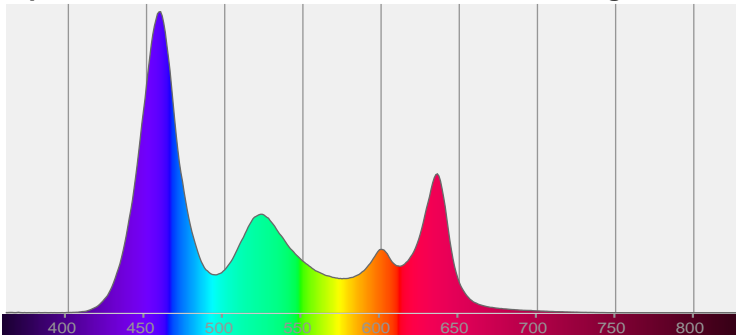
Note:



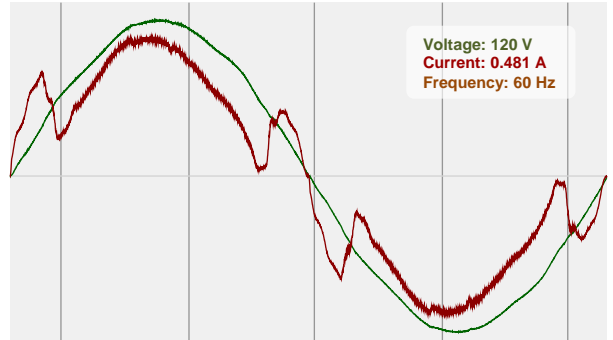
CIE 1931
x: 0.259
y: 0.228

Spectra

Dominant Wavelength: 455nm



Power

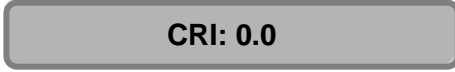


Light Efficiency:



Output: 1531 lm

Light Quality:



Peak: 11057 cd

Color Temperature:

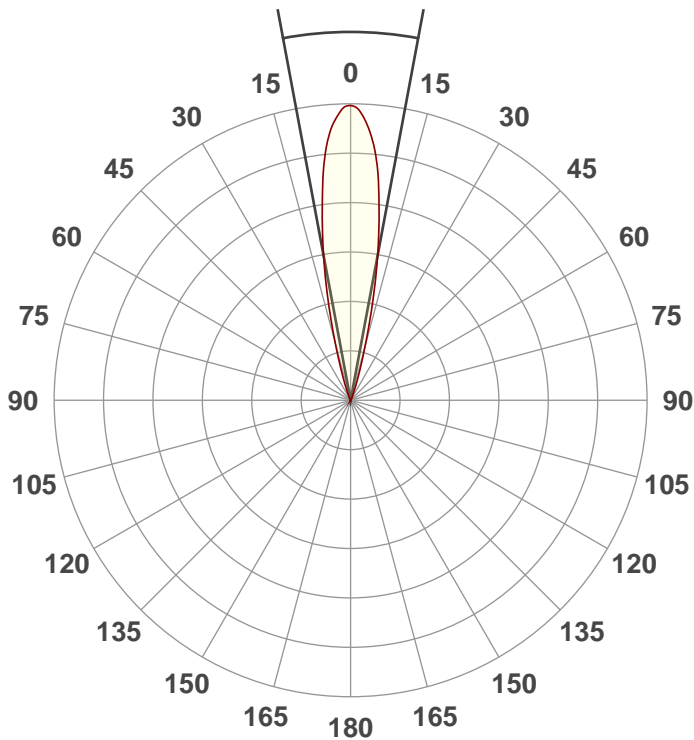


Power: 69.1 W

PF: 0.97

Beam Angle

21.1°

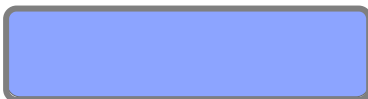


Product Name:
SIXPAR 100

Test:
Full On

Date:
4/4/2019

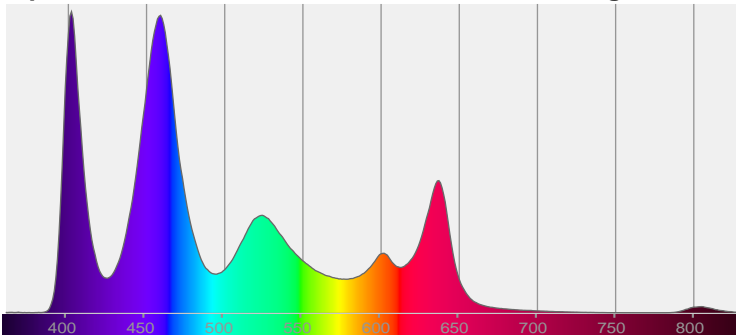
Note:



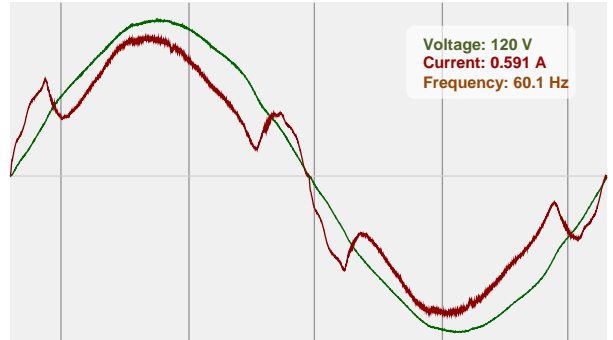
CIE 1931
x: 0.253
y: 0.220

Spectra

Dominant Wavelength: 457nm



Power



Light Efficiency:

38 Lumen/Watt

Dominant Wavelength:

527 nm

Output:

859 lm

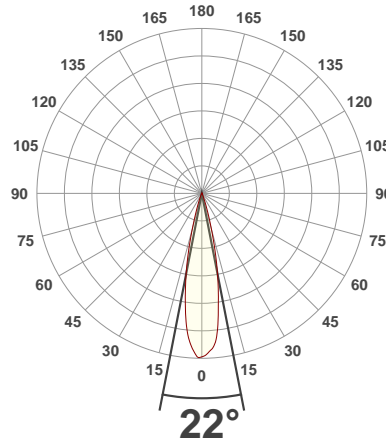
Power:

22.6 W

Peak:

5656 cd

Beam Angle



Test:

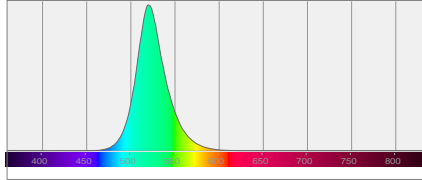
Green

Date:

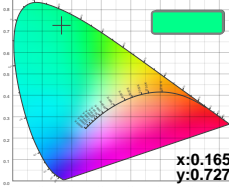
4/4/2019

Note:

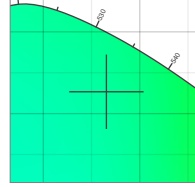
Spectral Distribution



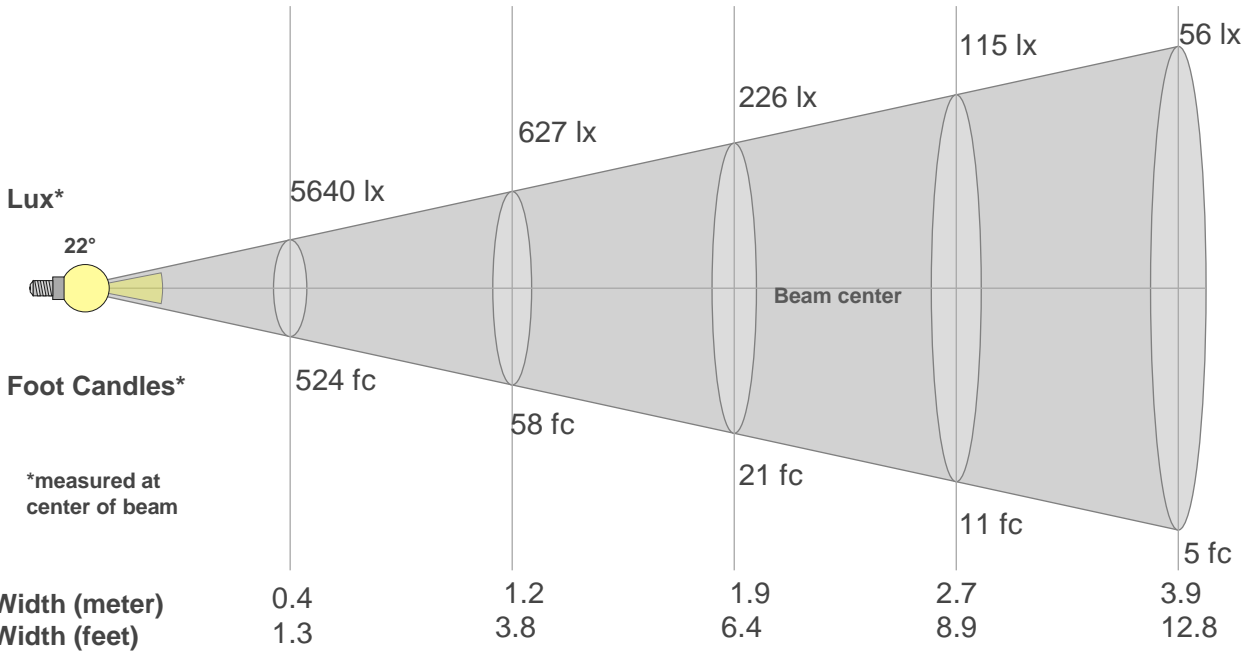
Color Coordinates



Zoom Color Point



Distance (meter)	1	3	5	7	10
Distance (feet)	3.3	9.8	16.4	22.9	32.8



Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
22°	36°	46.5°	100.0%	99.8%

Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	5640	1410	627	352	226	157	115	88	70	56	47	39	33	29	25	22	20	17	16	14
fc	523.9	131	58.2	32.7	21	14.6	10.7	8.2	6.5	5.2	4.3	3.6	3.1	2.7	2.3	2	1.8	1.6	1.5	1.3

Light Efficiency:

32 Lumen/Watt

Dominant Wavelength:

621 nm

Output:

399 lm

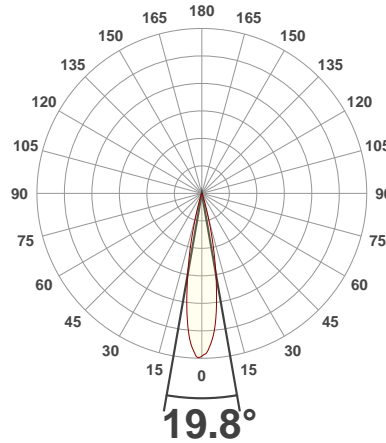
Power:

12.7 W

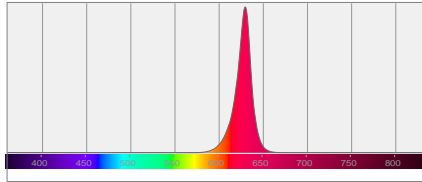
Peak:

3257 cd

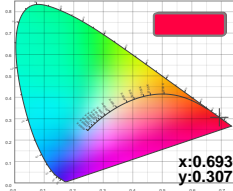
Beam Angle



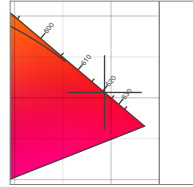
Spectral Distribution



Color Coordinates



Zoom Color Point



Test:

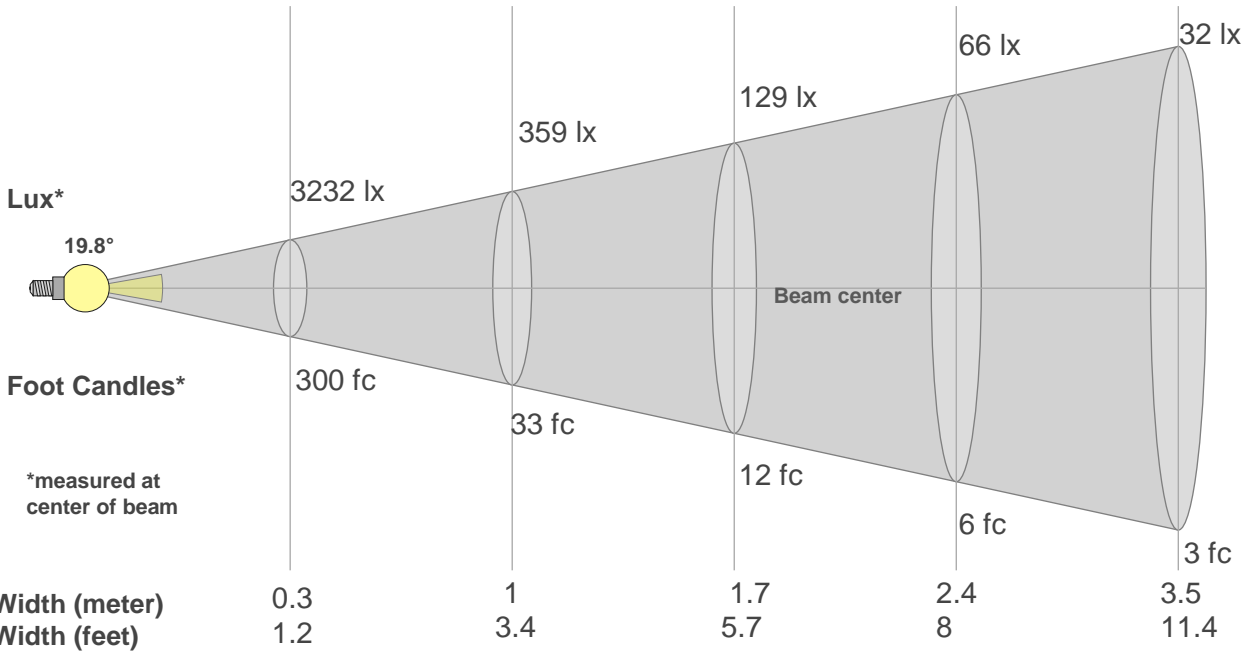
Red

Date:

4/4/2019

Note:

Distance (meter)	1	3	5	7	10
Distance (feet)	3.3	9.8	16.4	22.9	32.8



Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
19.8°	32.3°	41.2°	100.0%	100.0%

Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	3232	808	359	202	129	90	66	50	40	32	27	22	19	16	14	13	11	10	9	8
fc	300.3	75.1	33.4	18.8	12	8.3	6.1	4.7	3.7	3	2.5	2.1	1.8	1.5	1.3	1.2	1	0.9	0.8	0.8

Light Efficiency:

1 Lumen/Watt

Dominant Wavelength:

421 nm

Output:

12.9 lm

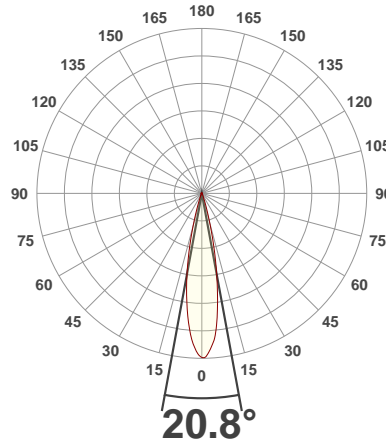
Power:

25.1 W

Peak:

87.7 cd

Beam Angle



Test:

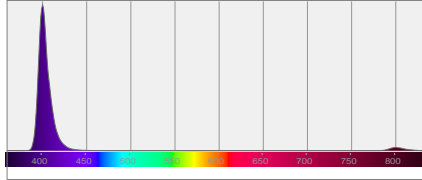
UV

Date:

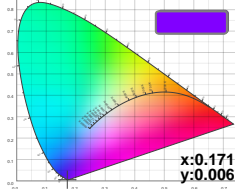
4/5/2019

Note:

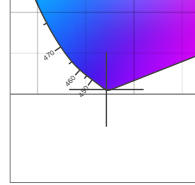
Spectral Distribution



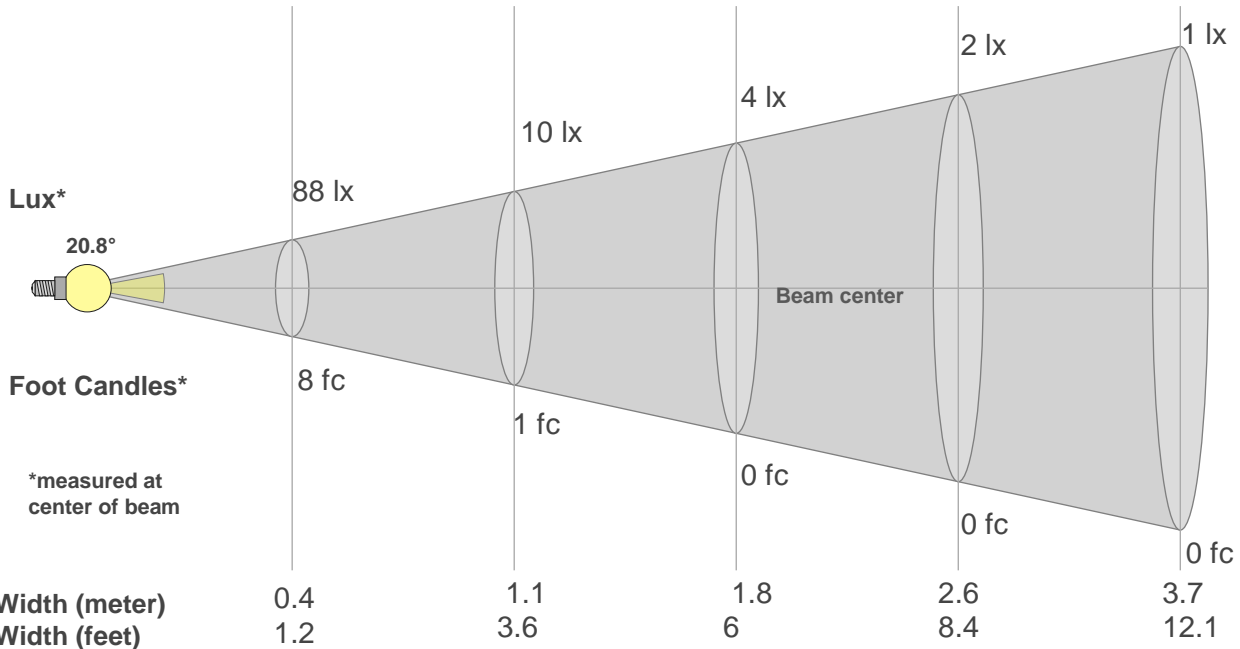
Color Coordinates



Zoom Color Point



Distance (meter)	1	3	5	7	10
Distance (feet)	3.3	9.8	16.4	22.9	32.8



Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
20.8°	34.9°	45.9°	98.2%	96.8%

Beam Intensities from 1-20m

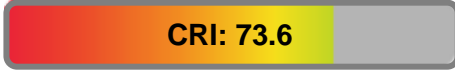
m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	88	22	10	5	4	2	2	1	1	1	1	1	1	0	0	0	0	0	0	0
fc	8.1	2	0.9	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0

Light Efficiency:



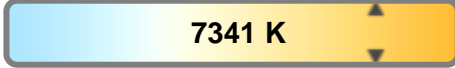
Output: 971 lm

Light Quality:



Peak: 7198 cd

Color Temperature:

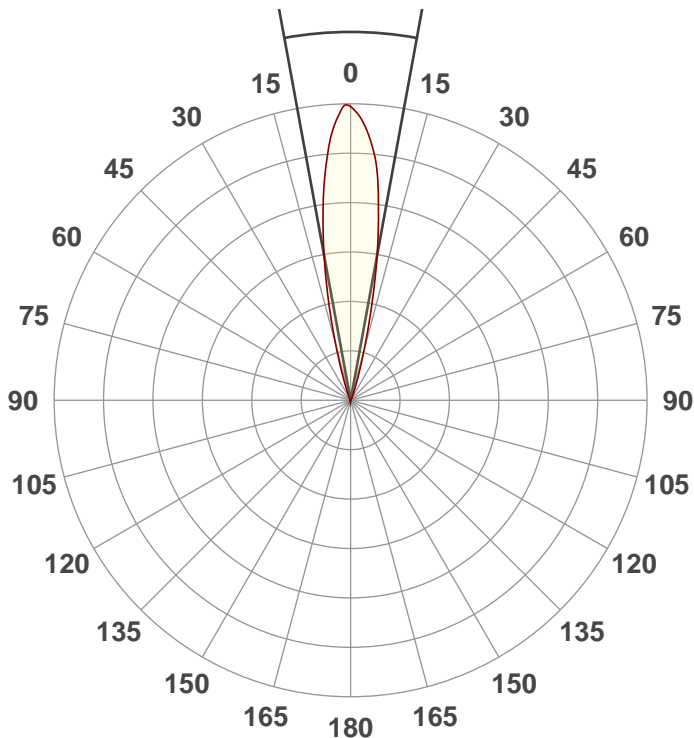


Power: 21.4 W

PF: 0.88

Beam Angle

20.7°

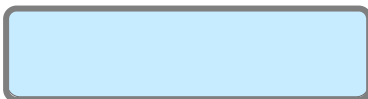


Product Name:
SIXPAR 100

Test:
White

Date:
4/5/2019

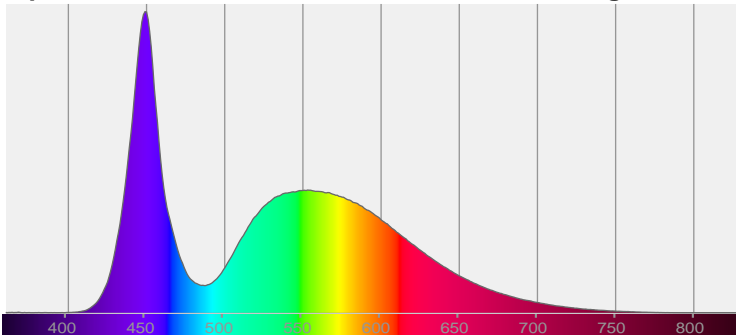
Note:



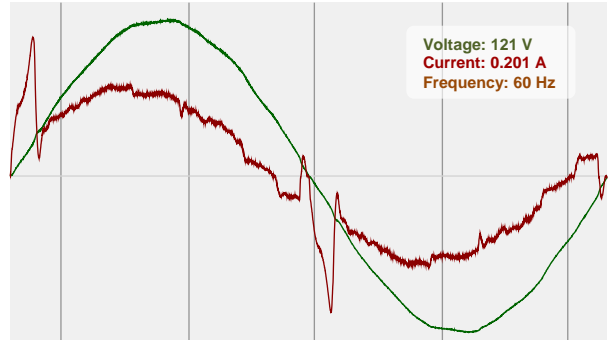
CIE 1931
x: 0.303
y: 0.309

Spectra

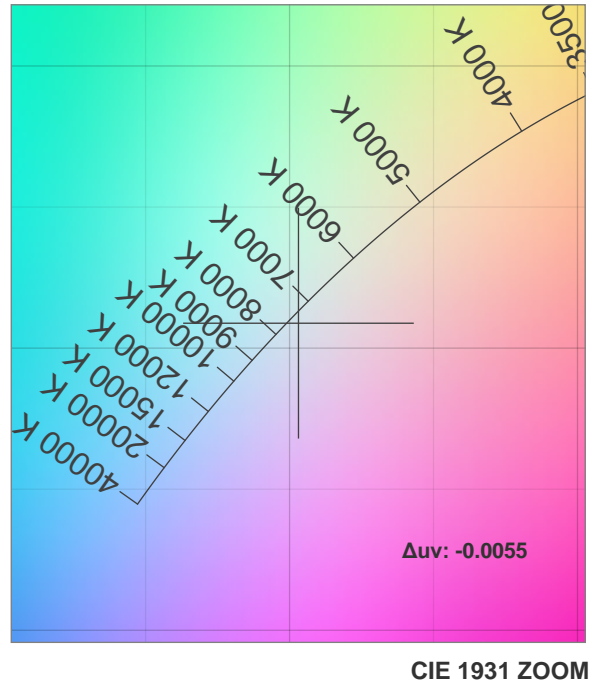
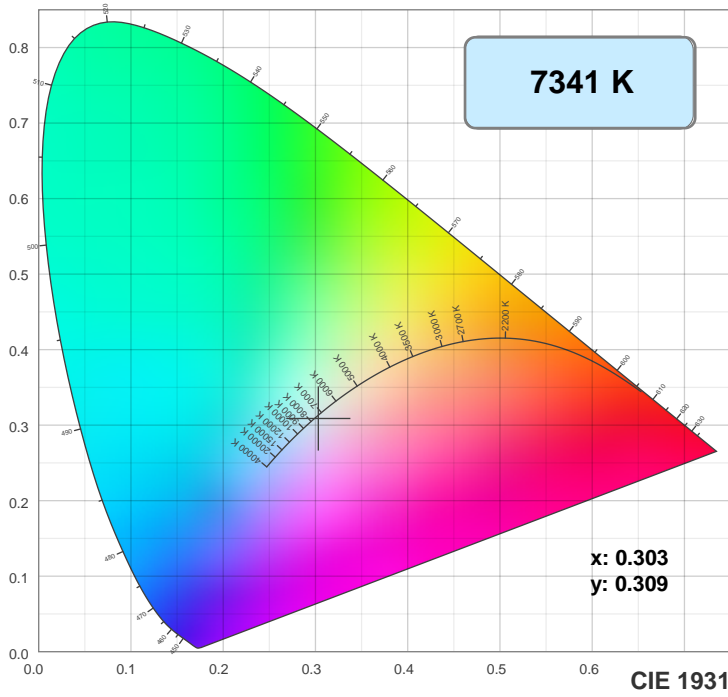
Dominant Wavelength: 444nm



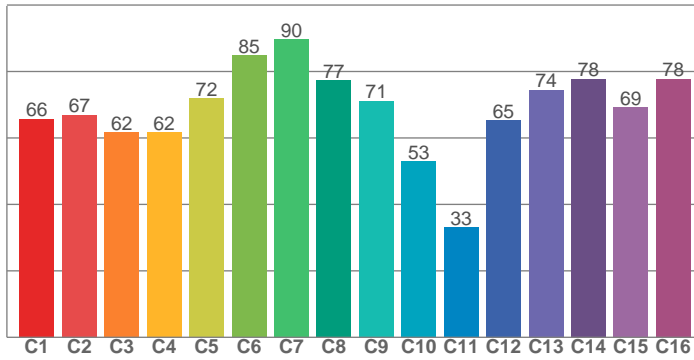
Power



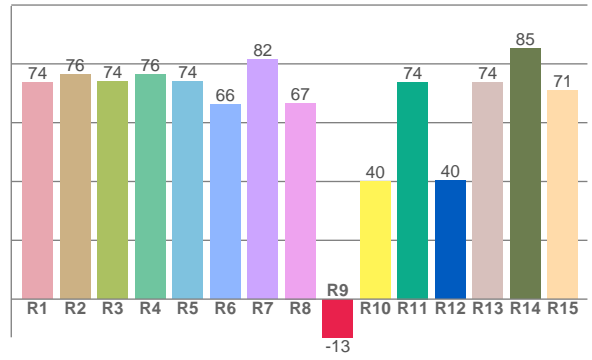
Color Details



TM30: 68.4



CRI: 73.6 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
73.8	76.3	74.0	76.3	74.0	66.2	81.5	66.7	-13.0	40.0	73.8	40.3	73.7	85.2	70.9

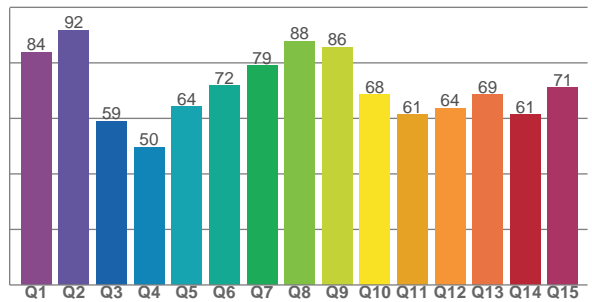
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
65.7	66.9	61.7	61.7	71.8	84.8	89.7	77.3	71.2	53.0	33.0	65.3	74.4	77.7	69.2	77.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.9	91.7	59.1	49.6	64.3	71.8	79.1	87.8	85.7	68.5	61.3	63.8	68.5	61.3	71.1

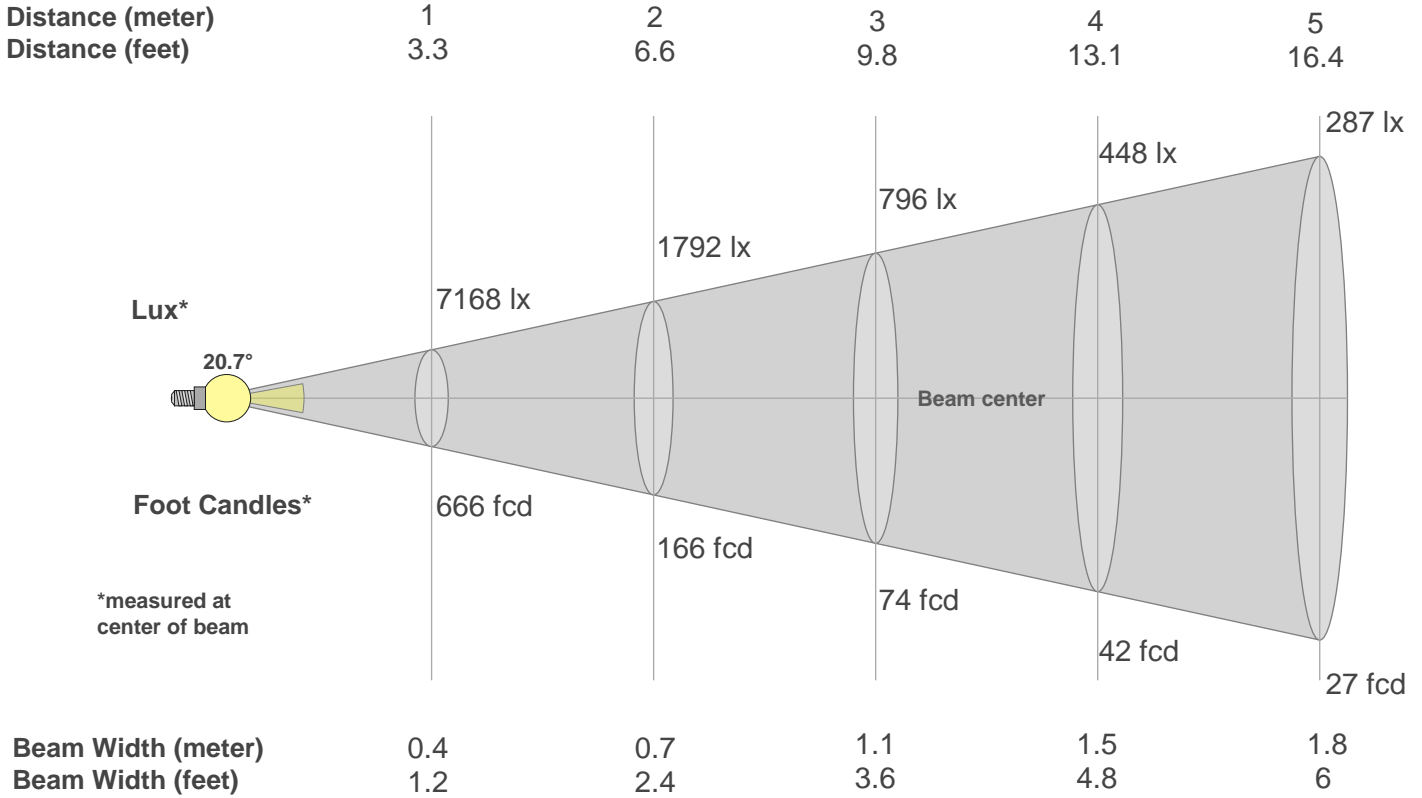
CQS: 68.9



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
7341 K	73.6	-13.0	68.4	94.0	68.9	0.303	0.309	0.199	0.304	-0.0055

Beam Details



Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	7168	1792	796	448	287	199	146	112	88	72	59	50	42	37	32	28	25	22	20	18
fcd	666	166.5	74	41.6	26.6	18.5	13.6	10.4	8.2	6.7	5.5	4.6	3.9	3.4	3	2.6	2.3	2.1	1.8	1.7

Intensities in 0° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7168	7197	7052	6823	6539	6173	5753	5306	4818	4305	3790	3267	2755	2270	1806	1390	1057	802	600	447
100%	100%	98%	95%	91%	86%	80%	74%	67%	60%	53%	46%	38%	32%	25%	19%	15%	11%	8%	6%

Intensities in 90° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7168	7197	7052	6823	6539	6173	5753	5306	4818	4305	3790	3267	2755	2270	1806	1390	1057	802	600	447
100%	100%	98%	95%	91%	86%	80%	74%	67%	60%	53%	46%	38%	32%	25%	19%	15%	11%	8%	6%

Intensities in 180° C-plane

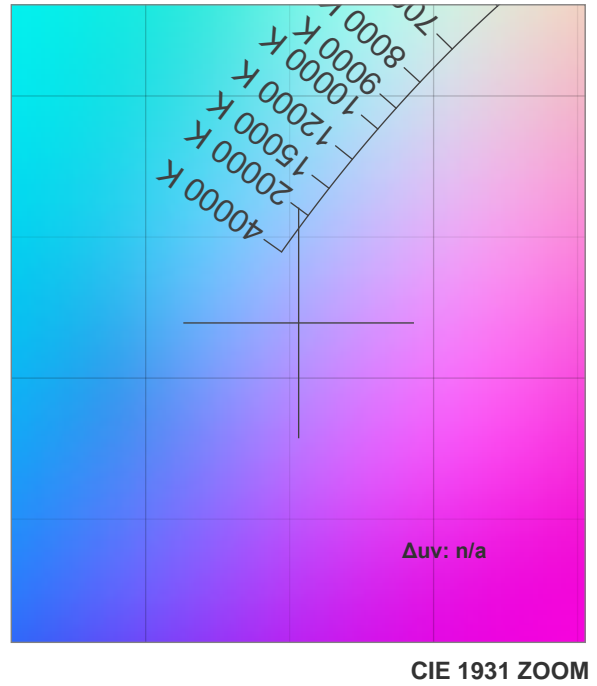
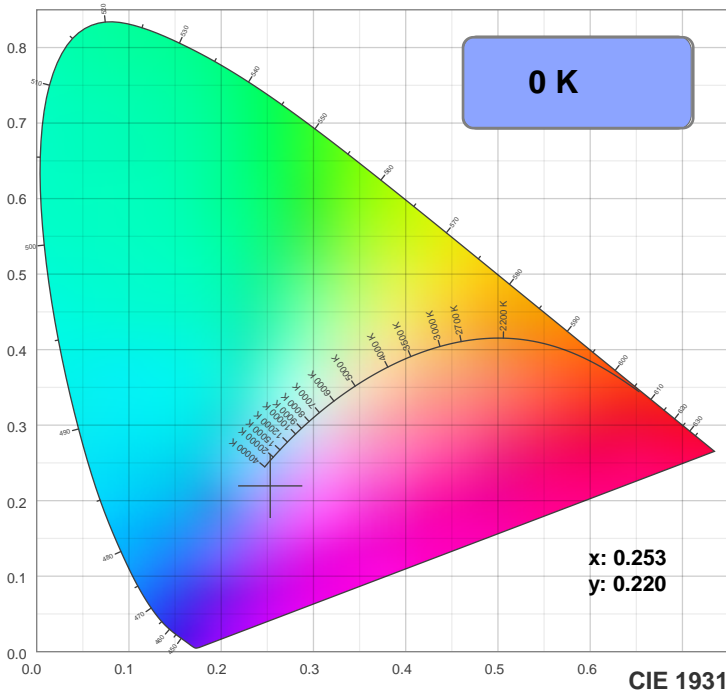
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7168	7056	6906	6705	6466	6187	5872	5433	4879	4338	3798	3244	2682	2150	1677	1280	970	737	559	422
100%	98%	96%	94%	90%	86%	82%	76%	68%	61%	53%	45%	37%	30%	23%	18%	14%	10%	8%	6%

Intensities in 270° C-plane

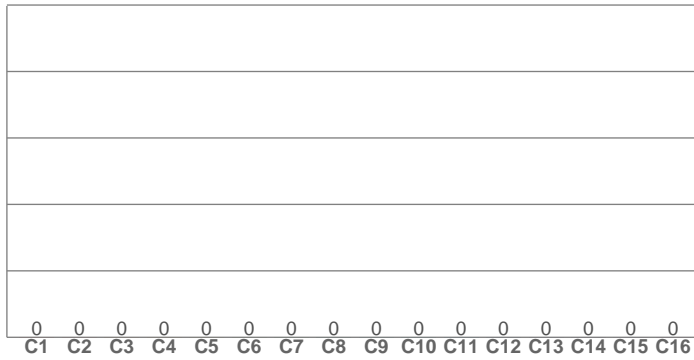
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7168	7056	6906	6705	6466	6187	5872	5433	4879	4338	3798	3244	2682	2150	1677	1280	970	737	559	422
100%	98%	96%	94%	90%	86%	82%	76%	68%	61%	53%	45%	37%	30%	23%	18%	14%	10%	8%	6%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
20.7°	34.5°	44.8°	100.0%	99.9%

Color Details



TM30: 0.0



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

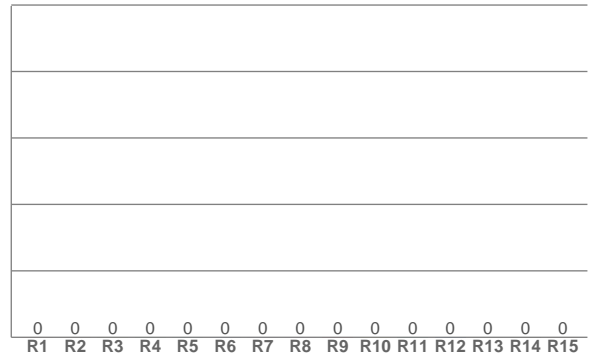
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

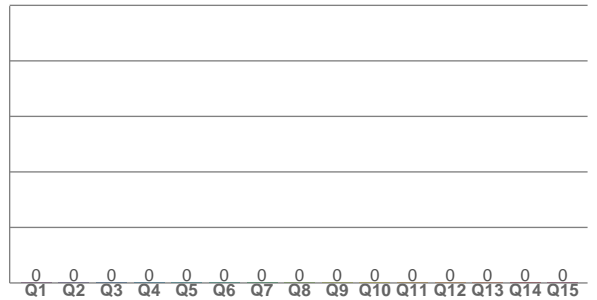
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CRI: 0.0 (R1-R8)



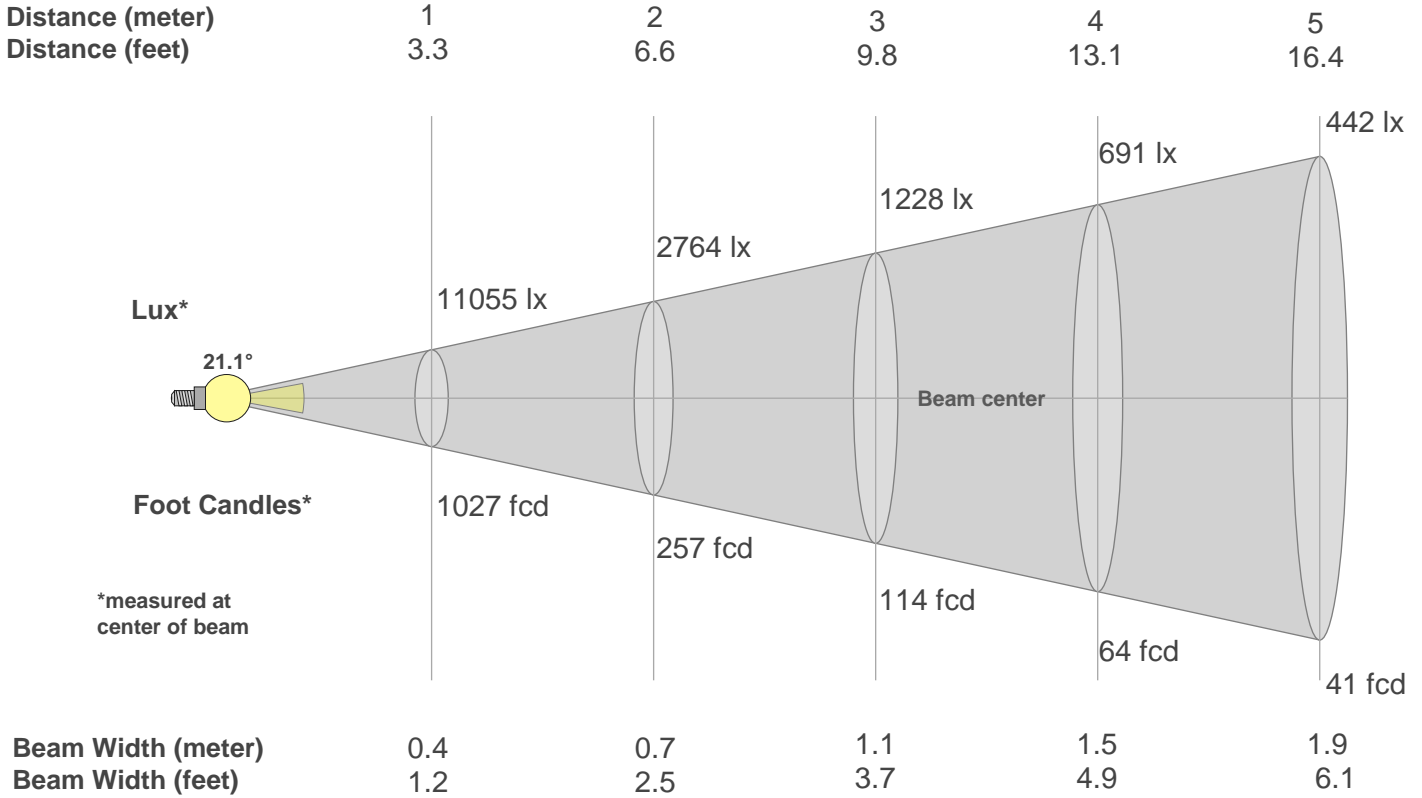
CQS: 0.0



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Diviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.253	0.220	0.197	0.257	n/a

Beam Details



Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	11055	2764	1228	691	442	307	226	173	136	111	91	77	65	56	49	43	38	34	31	28
fcd	1027	256.8	114.1	64.2	41.1	28.5	21	16	12.7	10.3	8.5	7.1	6.1	5.2	4.6	4	3.6	3.2	2.8	2.6

Intensities in 0° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.1K	11.0K	10.8K	10.6K	10.3K	9.8K	9.2K	8.5K	7.6K	6.8K	6.0K	5.2K	4.4K	3.6K	2.9K	2.2K	1.7K	1.3K	1.0K	0.7K
100%	100%	98%	96%	93%	88%	83%	77%	69%	61%	54%	47%	40%	33%	26%	20%	16%	12%	9%	7%

Intensities in 90° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.1K	11.0K	10.8K	10.6K	10.3K	9.8K	9.2K	8.5K	7.6K	6.8K	6.0K	5.2K	4.4K	3.6K	2.9K	2.2K	1.7K	1.3K	1.0K	0.7K
100%	100%	98%	96%	93%	88%	83%	77%	69%	61%	54%	47%	40%	33%	26%	20%	16%	12%	9%	7%

Intensities in 180° C-plane

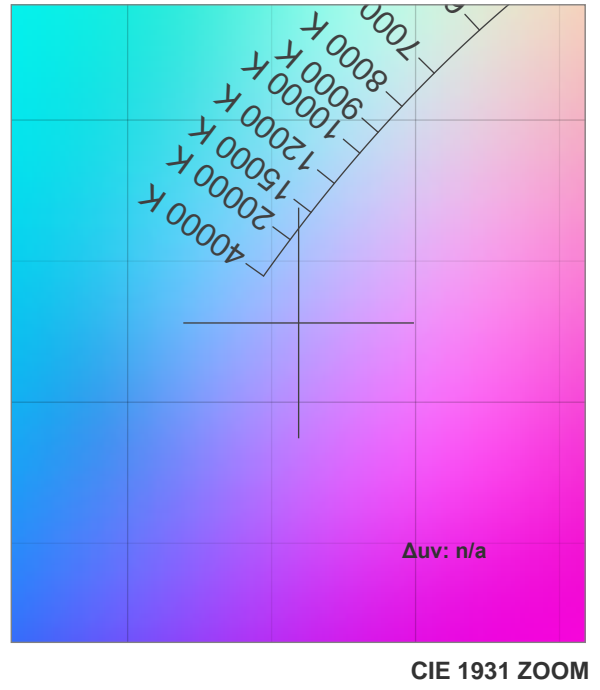
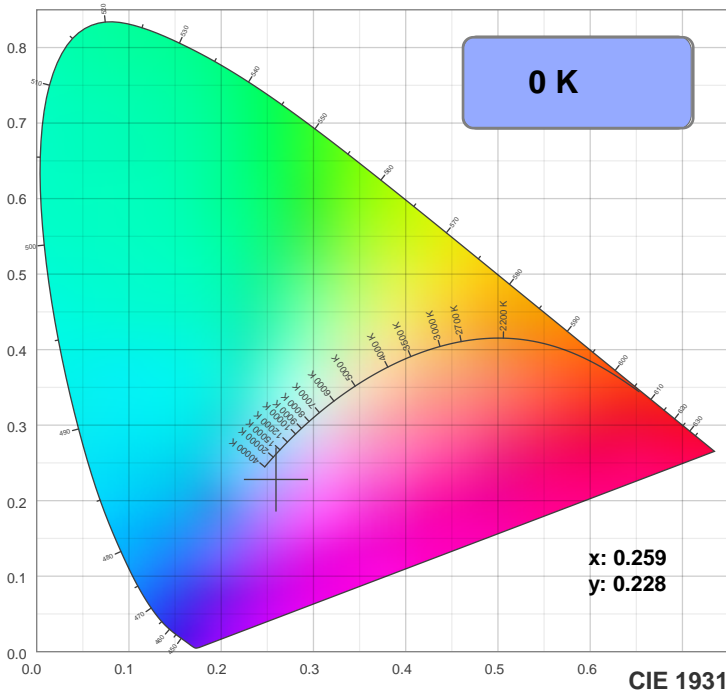
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.1K	11.0K	10.8K	10.5K	10.1K	9.7K	9.1K	8.5K	7.6K	6.8K	6.0K	5.2K	4.3K	3.5K	2.8K	2.1K	1.6K	1.2K	0.9K	0.7K
100%	99%	98%	95%	92%	88%	83%	77%	69%	62%	54%	47%	39%	32%	25%	19%	15%	11%	8%	6%

Intensities in 270° C-plane

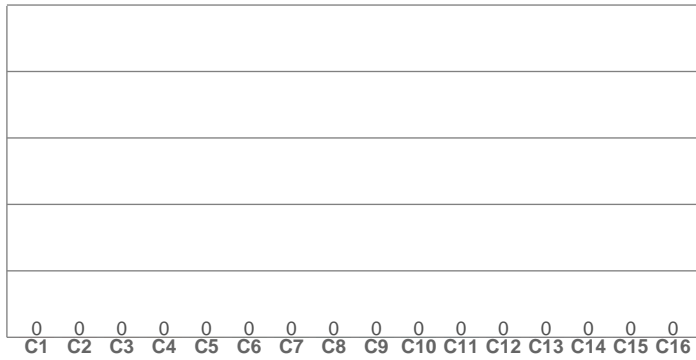
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.1K	11.0K	10.8K	10.5K	10.1K	9.7K	9.1K	8.5K	7.6K	6.8K	6.0K	5.2K	4.3K	3.5K	2.8K	2.1K	1.6K	1.2K	0.9K	0.7K
100%	99%	98%	95%	92%	88%	83%	77%	69%	62%	54%	47%	39%	32%	25%	19%	15%	11%	8%	6%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
21.1°	34.9°	44.6°	99.9%	99.8%

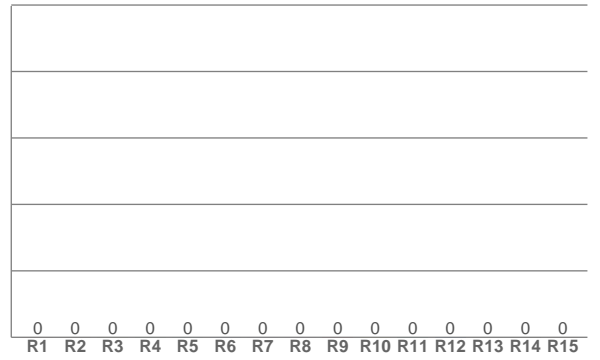
Color Details



TM30: 0.0



CRI: 0.0 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

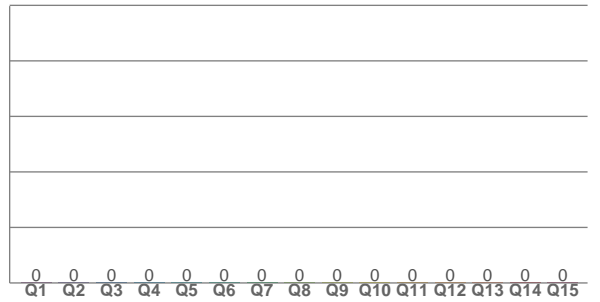
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

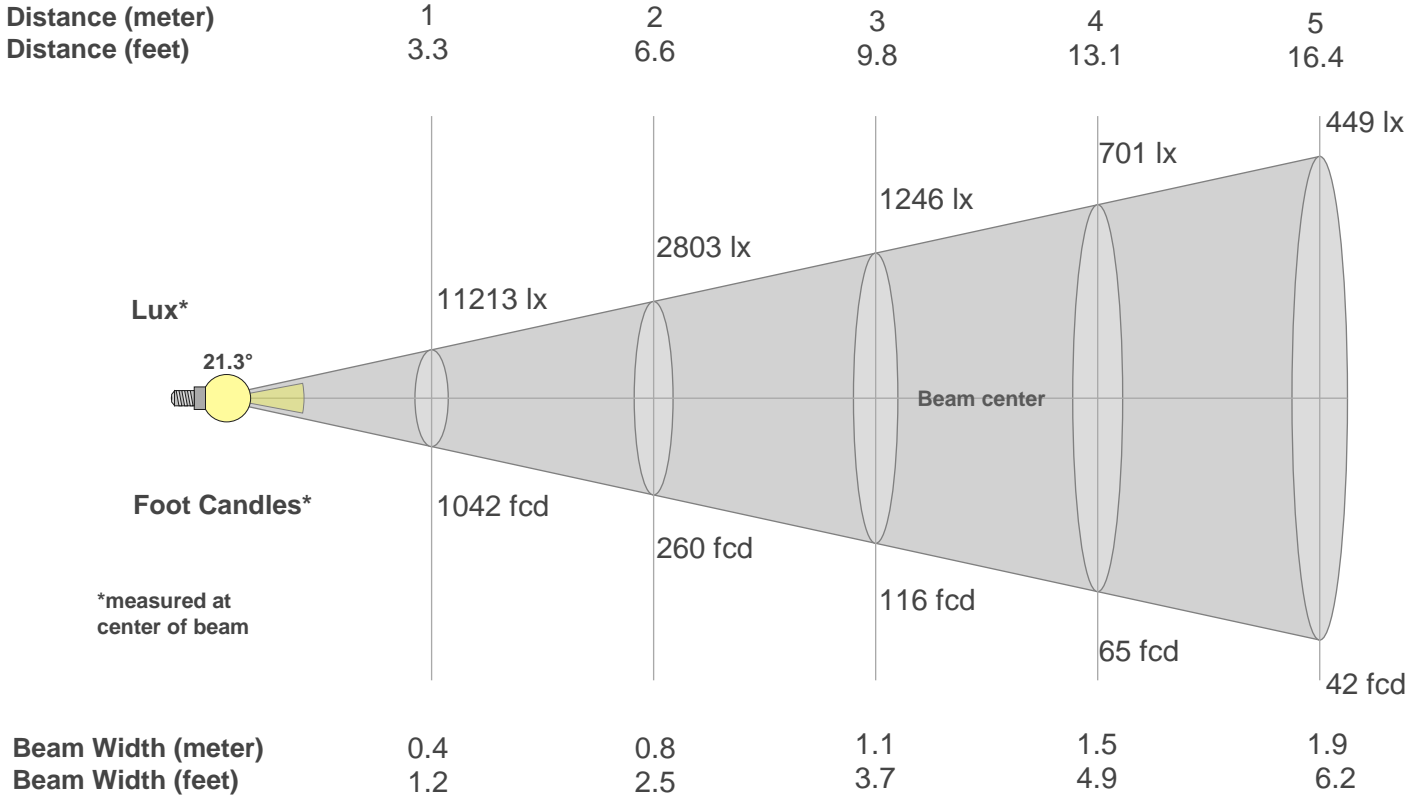
CQS: 0.0



Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.259	0.228	0.199	0.262	n/a

Beam Details



Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	11213	2803	1246	701	449	311	229	175	138	112	93	78	66	57	50	44	39	35	31	28
fcd	1041.8	260.4	115.8	65.1	41.7	28.9	21.3	16.3	12.9	10.4	8.6	7.2	6.2	5.3	4.6	4.1	3.6	3.2	2.9	2.6

Intensities in 0° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.2K	11.2K	11.0K	10.7K	10.4K	10.0K	9.4K	8.6K	7.8K	6.9K	6.1K	5.3K	4.5K	3.7K	2.9K	2.3K	1.7K	1.3K	1.0K	0.7K
100%	100%	98%	96%	93%	89%	84%	77%	69%	62%	55%	47%	40%	33%	26%	20%	16%	12%	9%	7%

Intensities in 90° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.2K	11.2K	11.0K	10.7K	10.4K	10.0K	9.4K	8.6K	7.8K	6.9K	6.1K	5.3K	4.5K	3.7K	2.9K	2.3K	1.7K	1.3K	1.0K	0.7K
100%	100%	98%	96%	93%	89%	84%	77%	69%	62%	55%	47%	40%	33%	26%	20%	16%	12%	9%	7%

Intensities in 180° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.2K	11.2K	11.0K	10.7K	10.3K	9.9K	9.4K	8.7K	7.8K	7.0K	6.1K	5.3K	4.5K	3.6K	2.8K	2.2K	1.6K	1.2K	0.9K	0.7K
100%	99%	98%	95%	92%	88%	83%	77%	70%	62%	55%	47%	40%	32%	25%	19%	15%	11%	8%	6%

Intensities in 270° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
11.2K	11.2K	11.0K	10.7K	10.3K	9.9K	9.4K	8.7K	7.8K	7.0K	6.1K	5.3K	4.5K	3.6K	2.8K	2.2K	1.6K	1.2K	0.9K	0.7K
100%	99%	98%	95%	92%	88%	83%	77%	70%	62%	55%	47%	40%	32%	25%	19%	15%	11%	8%	6%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
21.3°	34.9°	44.7°	100.0%	99.8%