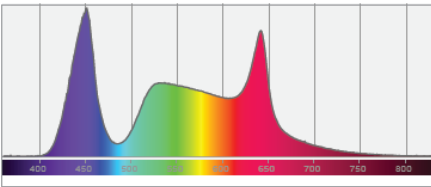
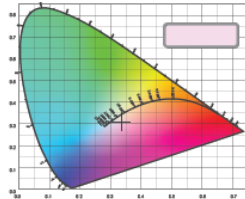


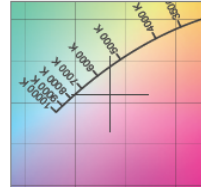
Spectral distribution



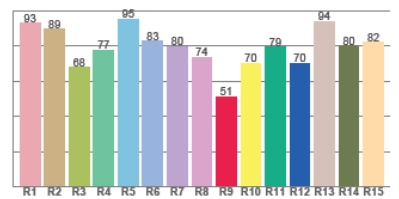
Color coordinates



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.adj.com for the latest revision/update of this report.

Par Z Move



Light Efficiency:



Light Quality:



Color Temperature:



Output: 5053 lm

Peak: 235188 cd

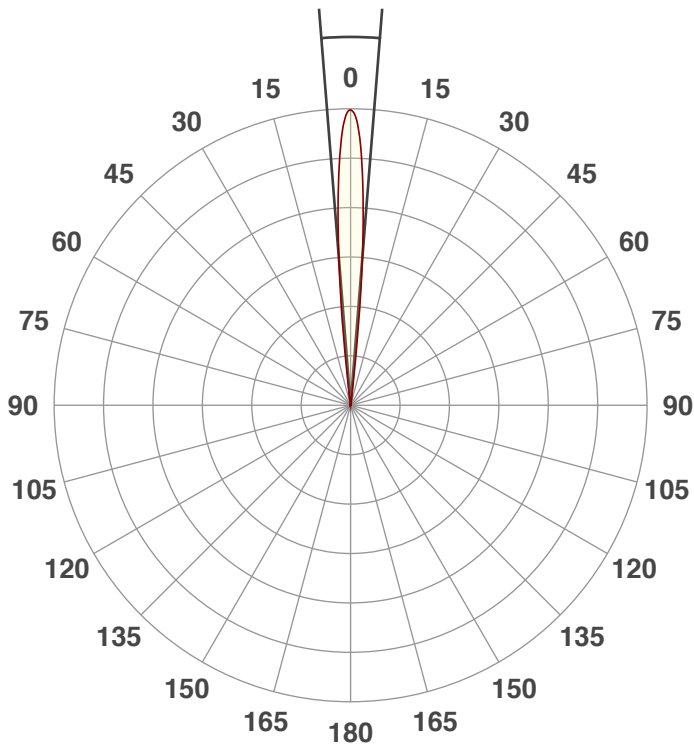
Power: 232.9 W

PF: 0.98



Beam Angle

9.1°



Test:

Zoom In

Date:

2/19/2019

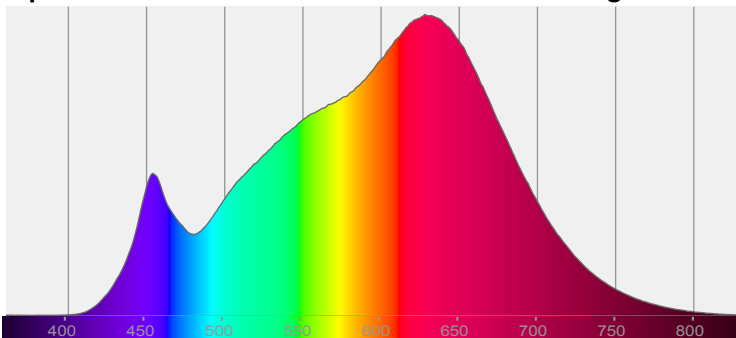
Note:



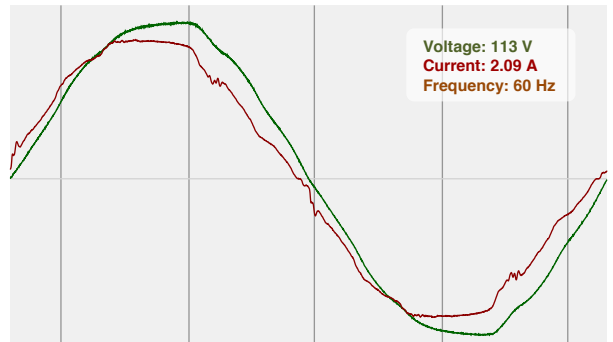
CIE 1931
x: 0.430
y: 0.399

Spectra

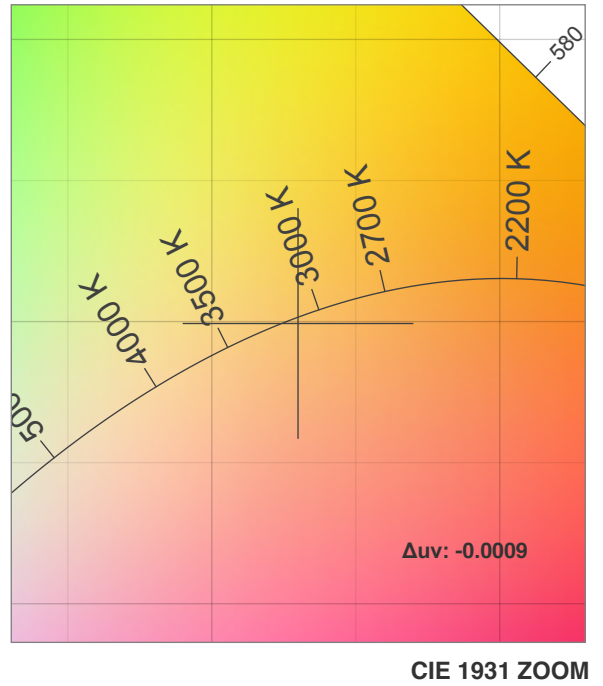
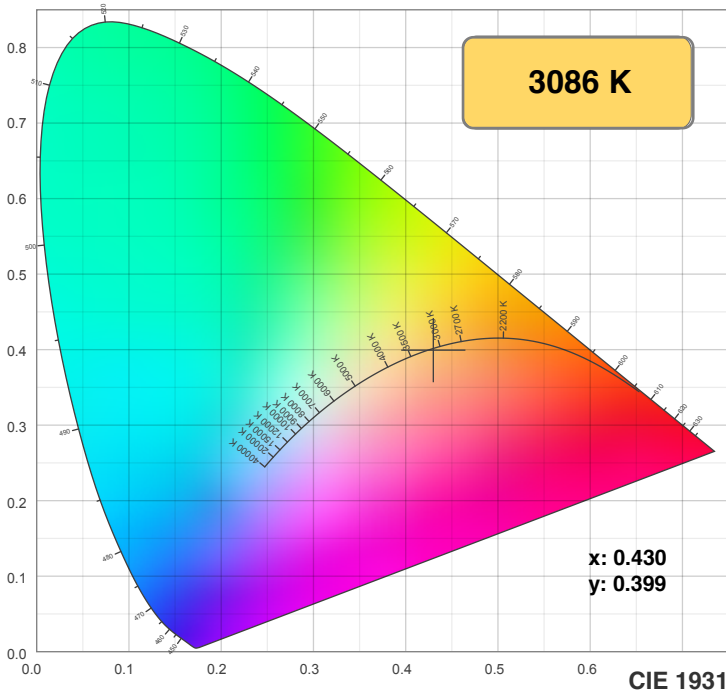
Dominant Wavelength: 584nm



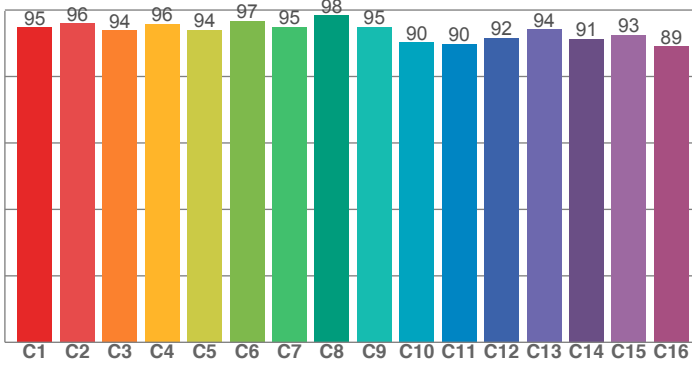
Power



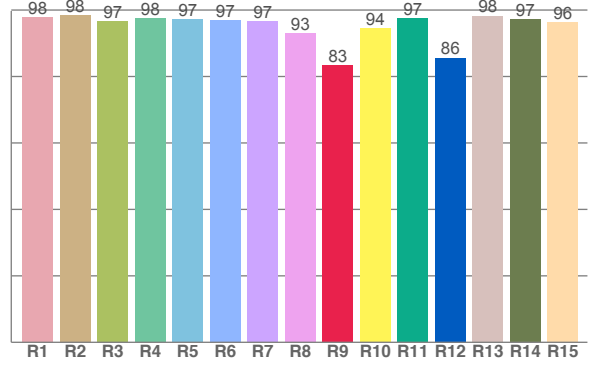
Color Details



TM30: 93.7



CRI: 96.8 (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
97.9	98.4	96.6	97.5	97.2	97.0	96.6	92.9	83.3	94.5	97.5	85.6	98.2	97.2	96.3

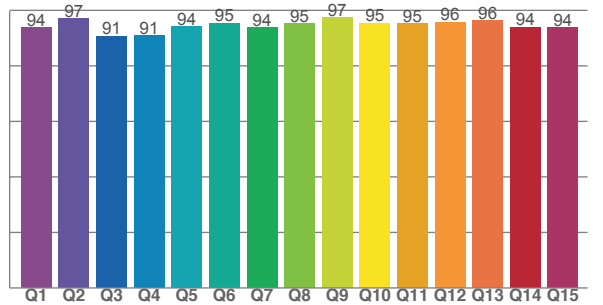
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.7	96.0	93.9	95.8	94.0	96.7	94.9	98.4	94.9	90.3	89.8	91.6	94.2	91.4	92.6	89.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.8	97.0	90.8	90.9	94.1	95.3	93.7	95.3	97.4	95.3	95.2	95.7	96.2	93.9	93.8

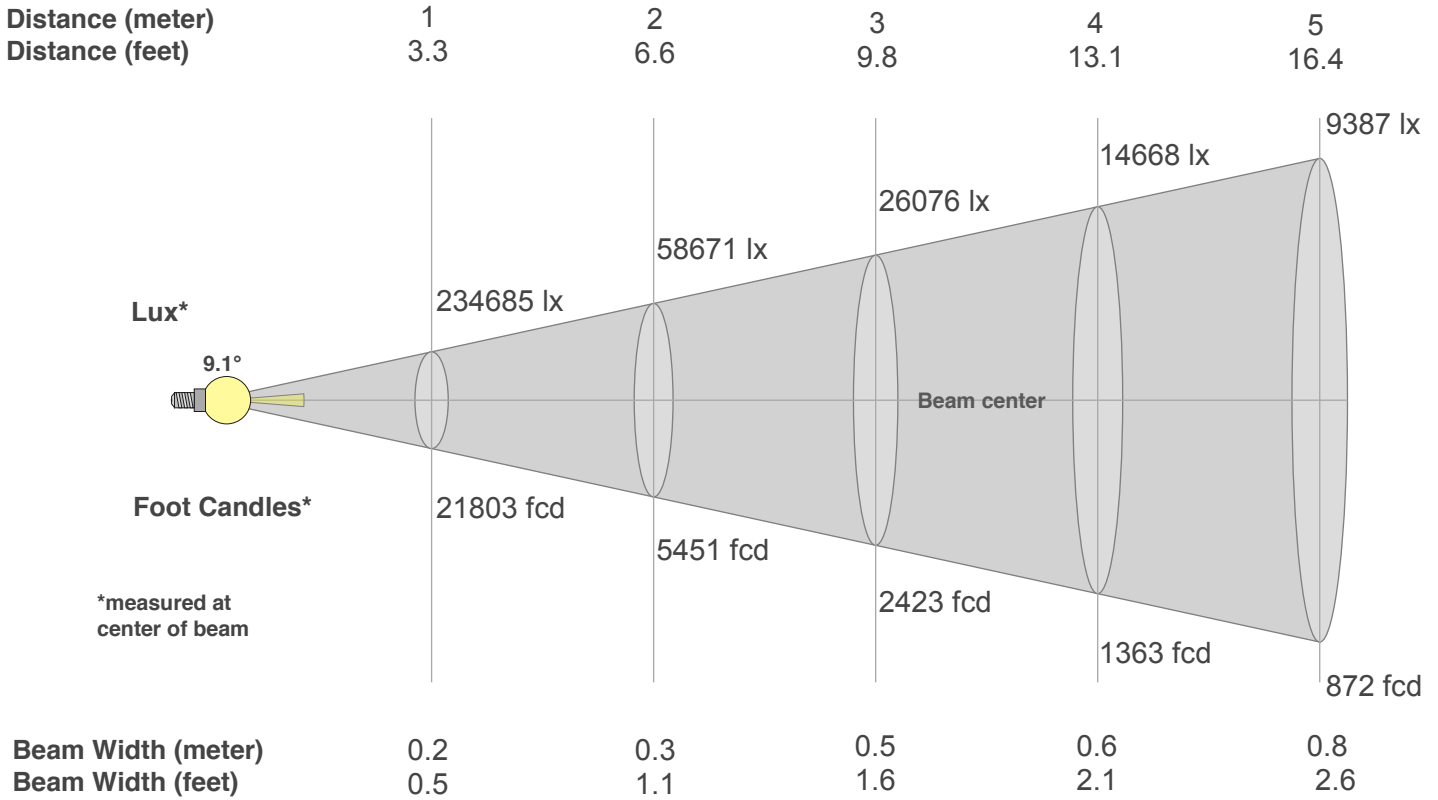
CQS: 94.2



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
3086 K	96.8	83.3	93.7	100.5	94.2	0.430	0.399	0.248	0.346	-0.0009

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	234685	58671	26076	14668	9387	6519	4789	3667	2897	2347	1940	1630	1389	1197	1043	917	812	724	650	587
fcd	21802.9	5450.7	2422.5	1362.7	872.1	605.6	445	340.7	269.2	218	180.2	151.4	129	111.2	96.9	85.2	75.4	67.3	60.4	54.5

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°
235K	229K	211K	181K	142K	97K	50K	14K	1K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	90%	77%	61%	41%	21%	6%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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°
235K	229K	211K	181K	142K	97K	50K	14K	1K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	90%	77%	61%	41%	21%	6%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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°
235K	229K	212K	182K	143K	97K	45K	9K	1K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	90%	77%	61%	41%	19%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

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°
235K	229K	212K	182K	143K	97K	45K	9K	1K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	98%	90%	77%	61%	41%	19%	4%	1%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
9.1°	13.1°	14.5°	100.0%	100.0%

Par Z Move



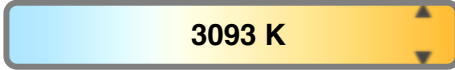
Light Efficiency:



Light Quality:



Color Temperature:

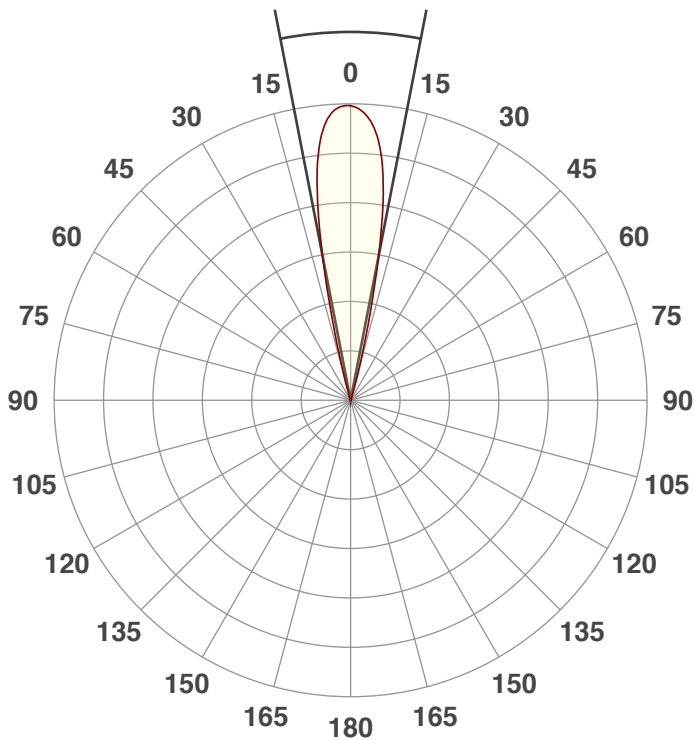


Output: 5687 lm
Peak: 46630 cd
Power: 232.8 W
PF: 0.98



Beam Angle

22°



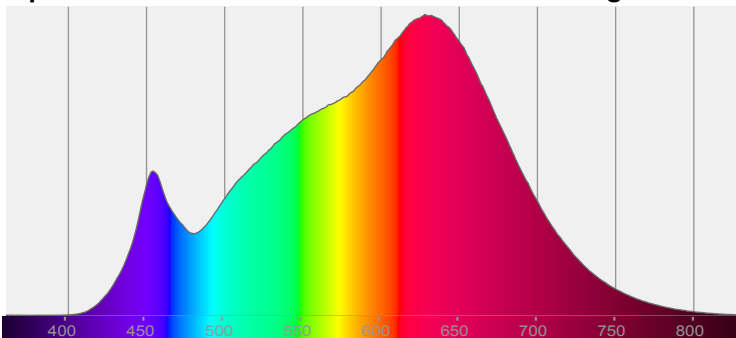
Test:
Zoom 50%
Date:
2/19/2019
Note:



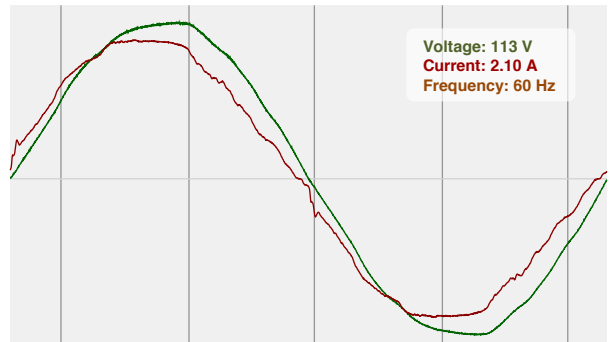
CIE 1931
x: 0.429
y: 0.398

Spectra

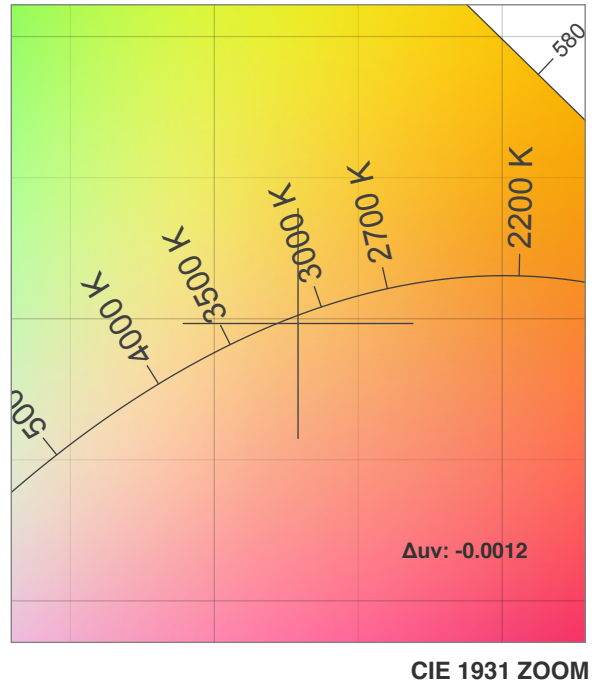
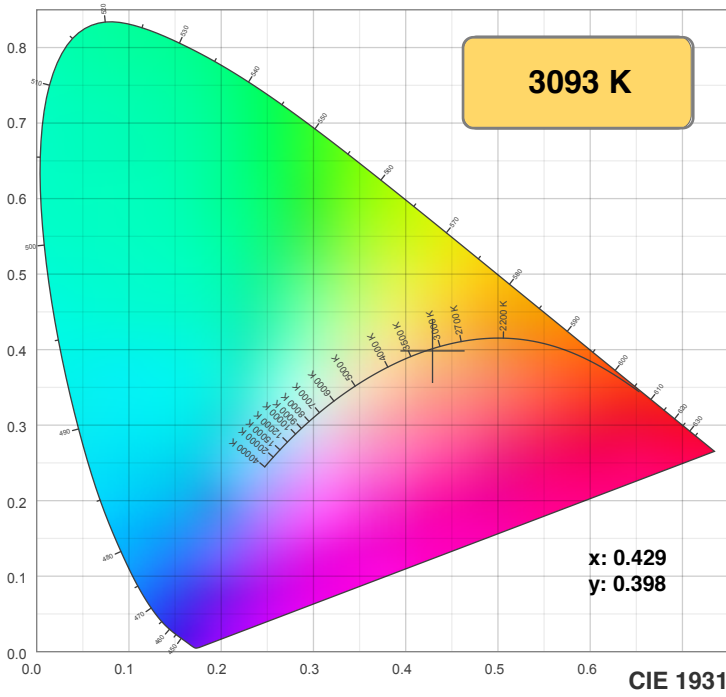
Dominant Wavelength: 584nm



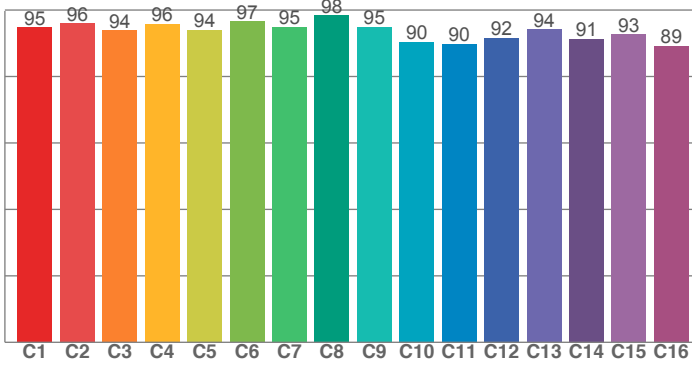
Power



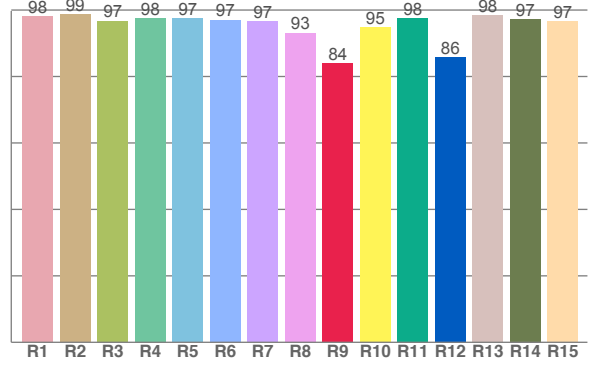
Color Details



TM30: 93.7



CRI: 96.9 (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
98.1	98.6	96.7	97.6	97.4	97.1	96.6	93.1	83.9	94.9	97.5	85.8	98.5	97.3	96.6

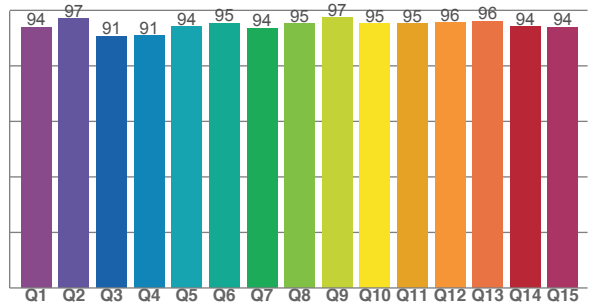
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.8	96.0	93.9	95.8	94.0	96.6	94.9	98.4	94.9	90.4	89.8	91.6	94.1	91.4	92.6	89.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.9	97.0	90.7	90.9	94.2	95.4	93.6	95.2	97.4	95.3	95.1	95.6	96.1	94.0	93.9

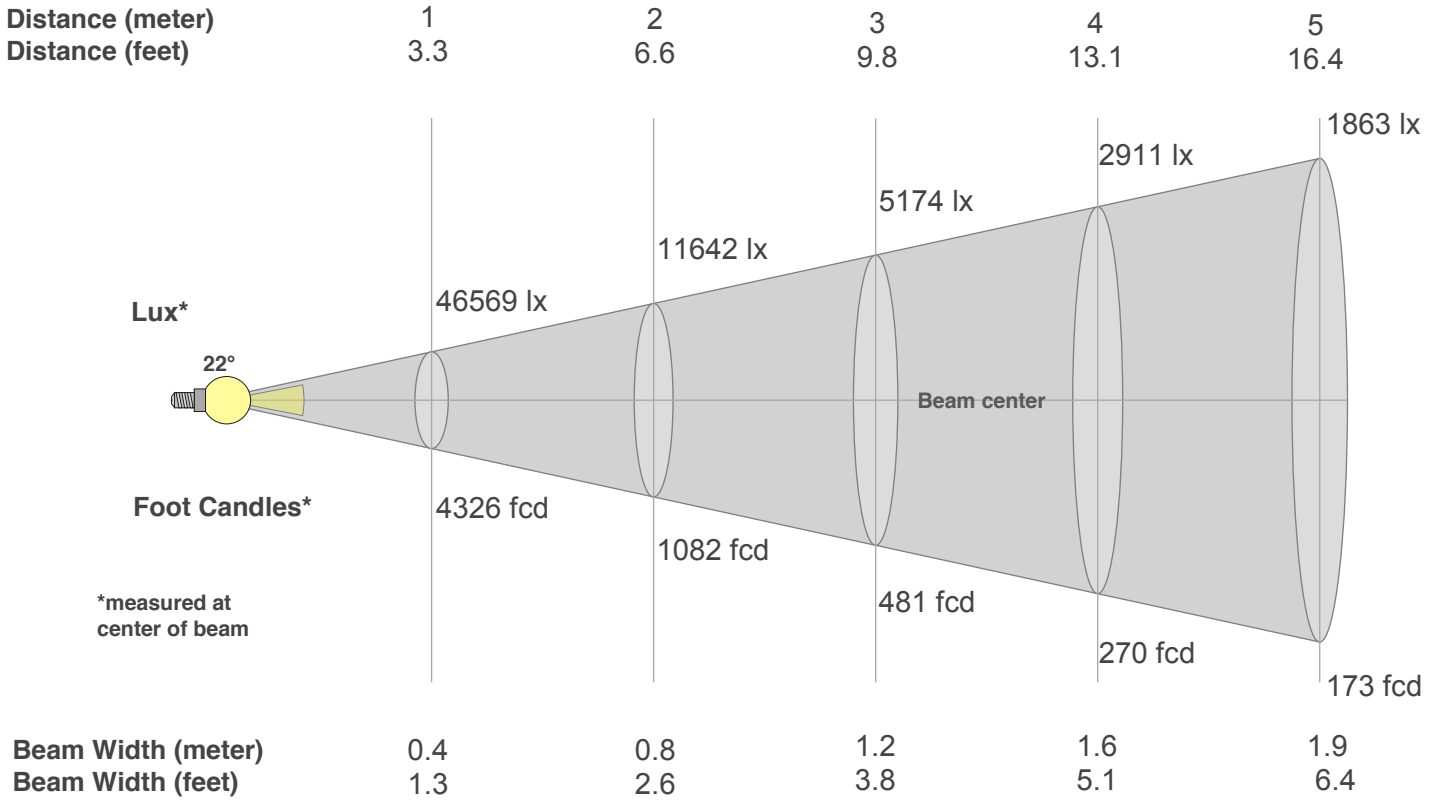
CQS: 94.2



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
3093 K	96.9	83.9	93.7	100.7	94.2	0.429	0.398	0.248	0.345	-0.0012

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	46569	11642	5174	2911	1863	1294	950	728	575	466	385	323	276	238	207	182	161	144	129	116
fcd	4326.4	1081.6	480.7	270.4	173.1	120.2	88.3	67.6	53.4	43.3	35.8	30	25.6	22.1	19.2	16.9	15	13.4	12	10.8

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°
46.6K	46.6K	46.4K	46.0K	45.3K	44.3K	42.5K	40.4K	37.5K	33.6K	29.0K	23.3K	17.6K	12.0K	7.8K	4.3K	2.3K	1.1K	0.4K	0.2K
100%	100%	100%	99%	97%	95%	91%	87%	81%	72%	62%	50%	38%	26%	17%	9%	5%	2%	1%	0%

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°
46.6K	46.6K	46.4K	46.0K	45.3K	44.3K	42.5K	40.4K	37.5K	33.6K	29.0K	23.3K	17.6K	12.0K	7.8K	4.3K	2.3K	1.1K	0.4K	0.2K
100%	100%	100%	99%	97%	95%	91%	87%	81%	72%	62%	50%	38%	26%	17%	9%	5%	2%	1%	0%

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°
46.6K	46.3K	45.9K	45.3K	44.3K	43.1K	41.5K	39.2K	36.5K	32.8K	28.3K	23.3K	17.8K	12.7K	8.4K	5.4K	2.9K	1.6K	0.8K	0.3K
100%	99%	99%	97%	95%	92%	89%	84%	78%	70%	61%	50%	38%	27%	18%	12%	6%	3%	2%	1%

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°
46.6K	46.3K	45.9K	45.3K	44.3K	43.1K	41.5K	39.2K	36.5K	32.8K	28.3K	23.3K	17.8K	12.7K	8.4K	5.4K	2.9K	1.6K	0.8K	0.3K
100%	99%	99%	97%	95%	92%	89%	84%	78%	70%	61%	50%	38%	27%	18%	12%	6%	3%	2%	1%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
22°	30.1°	34.3°	100.0%	100.0%

Par Z Move



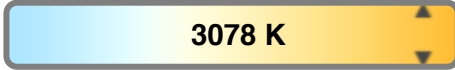
Light Efficiency:



Light Quality:



Color Temperature:



Output: 5522 lm

Peak: 15397 cd

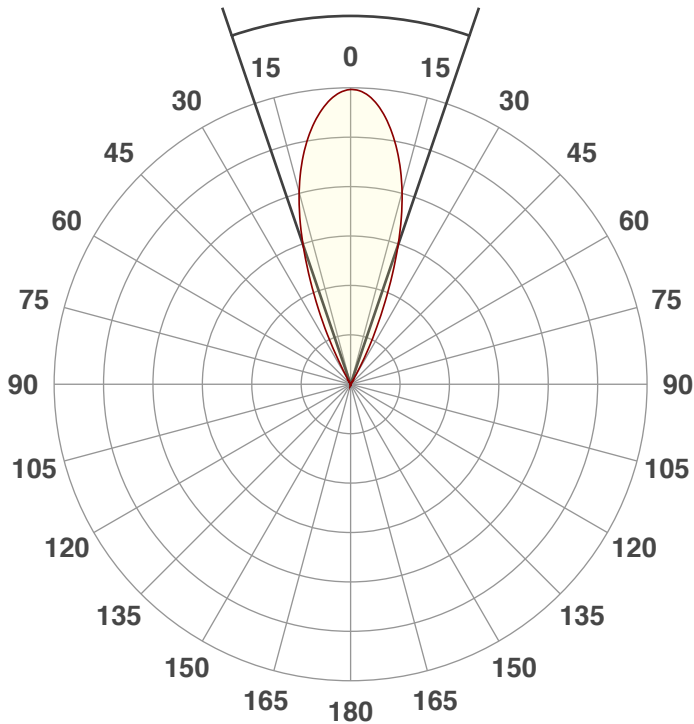
Power: 232.8 W

PF: 0.99



Beam Angle

37.6°



Test:

Zoom Out

Date:

2/19/2019

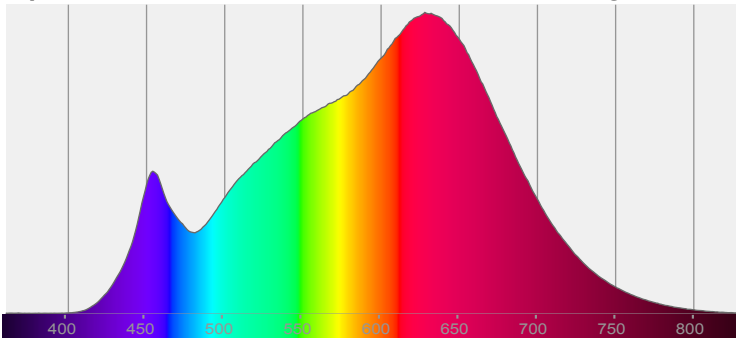
Note:



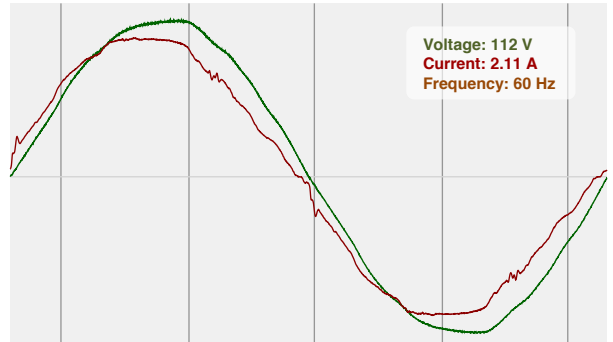
CIE 1931
x: 0.430
y: 0.399

Spectra

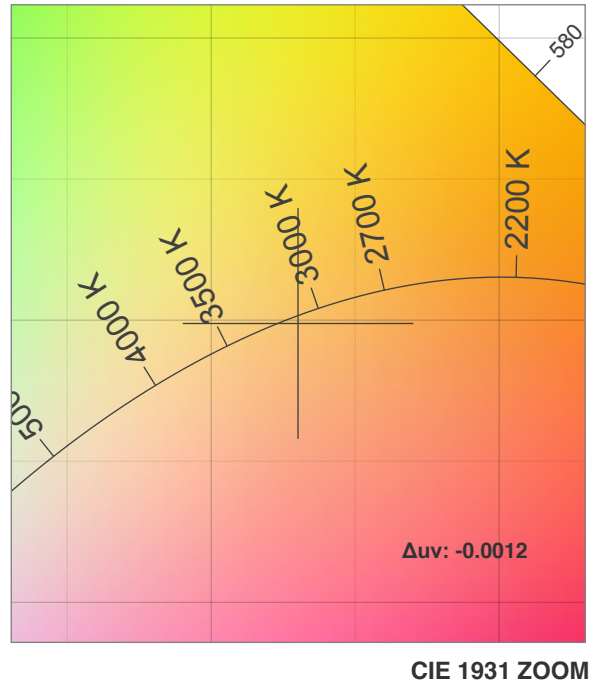
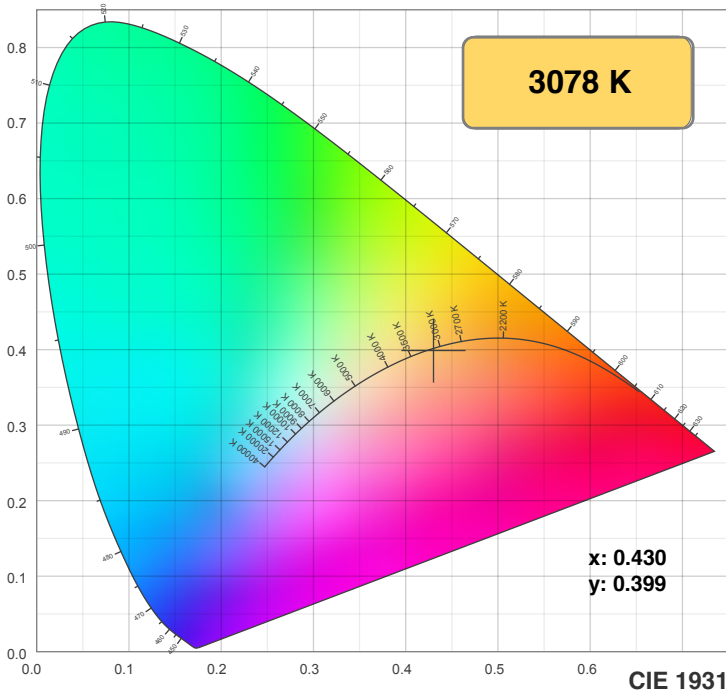
Dominant Wavelength: 584nm



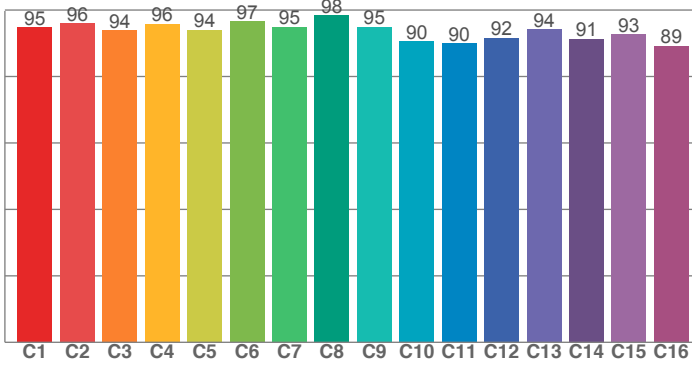
Power



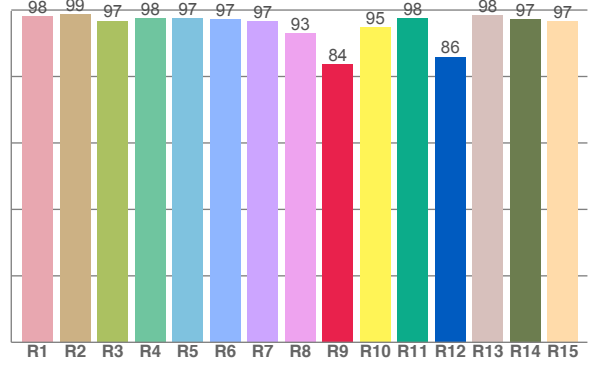
Color Details



TM30: 93.8



CRI: 96.9 (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
98.1	98.6	96.8	97.6	97.4	97.1	96.6	93.1	83.7	94.9	97.5	85.9	98.5	97.3	96.6

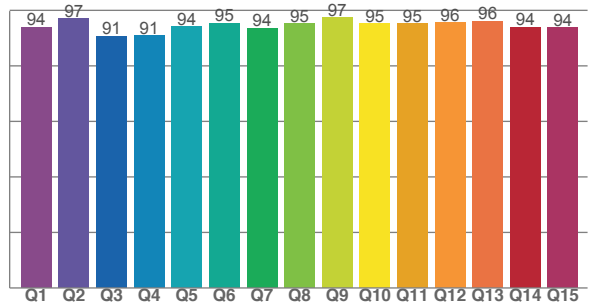
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
94.8	96.0	93.9	95.9	94.0	96.6	94.9	98.4	95.0	90.5	89.9	91.6	94.1	91.4	92.6	89.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.9	97.0	90.8	90.9	94.2	95.4	93.6	95.2	97.4	95.3	95.2	95.6	96.1	94.0	93.9

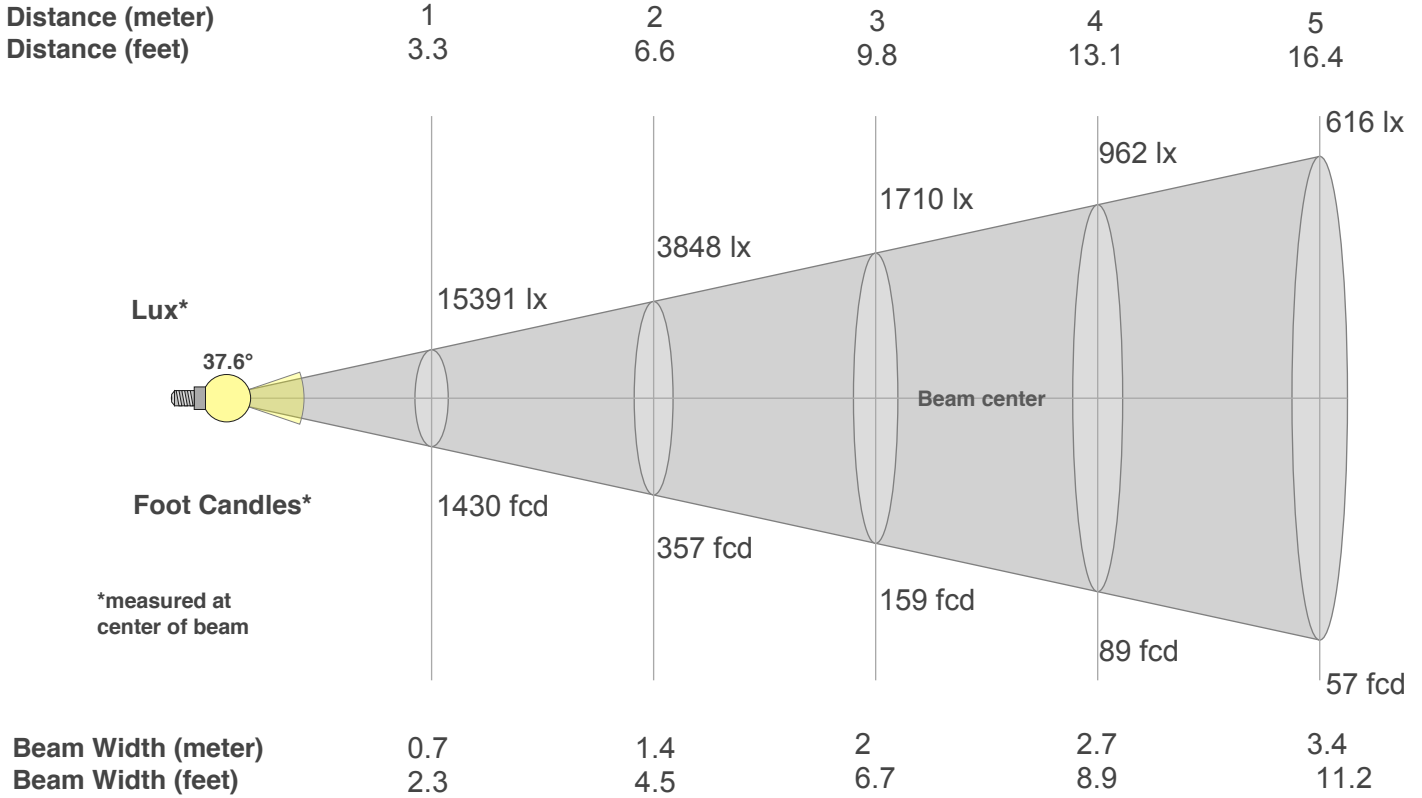
CQS: 94.2



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
3078 K	96.9	83.7	93.8	100.7	94.2	0.430	0.399	0.248	0.346	-0.0012

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	15391	3848	1710	962	616	428	314	240	190	154	127	107	91	79	68	60	53	48	43	38
fcd	1429.9	357.5	158.9	89.4	57.2	39.7	29.2	22.3	17.7	14.3	11.8	9.9	8.5	7.3	6.4	5.6	4.9	4.4	4	3.6

Intensities in 0° C-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
15.4K	15.3K	14.9K	14.4K	13.8K	13.0K	12.0K	11.0K	9.7K	8.3K	6.8K	5.2K	3.7K	2.1K	0.9K	0.2K	0.0K	0.0K	0.0K	0.0K
100%	99%	97%	94%	89%	84%	78%	71%	63%	54%	44%	34%	24%	14%	6%	1%	0%	0%	0%	0%

Intensities in 90° C-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
15.4K	15.3K	14.9K	14.4K	13.8K	13.0K	12.0K	11.0K	9.7K	8.3K	6.8K	5.2K	3.7K	2.1K	0.9K	0.2K	0.0K	0.0K	0.0K	0.0K
100%	99%	97%	94%	89%	84%	78%	71%	63%	54%	44%	34%	24%	14%	6%	1%	0%	0%	0%	0%

Intensities in 180° C-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
15.4K	15.3K	15.0K	14.5K	13.8K	13.0K	12.1K	11.0K	9.7K	8.3K	6.8K	5.2K	3.7K	2.4K	1.3K	0.5K	0.1K	0.0K	0.0K	0.0K
100%	99%	98%	94%	90%	85%	78%	71%	63%	54%	44%	34%	24%	16%	8%	3%	1%	0%	0%	0%

Intensities in 270° C-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
15.4K	15.3K	15.0K	14.5K	13.8K	13.0K	12.1K	11.0K	9.7K	8.3K	6.8K	5.2K	3.7K	2.4K	1.3K	0.5K	0.1K	0.0K	0.0K	0.0K
100%	99%	98%	94%	90%	85%	78%	71%	63%	54%	44%	34%	24%	16%	8%	3%	1%	0%	0%	0%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
37.6°	54.3°	59.3°	100.0%	100.0%