

Par 38B1b



Light Efficiency:

3 Lumen/Watt

Light Quality:

CRI: 98.8

Color Temperature:

2535 K

Output: 468 lm

Peak: 766 cd

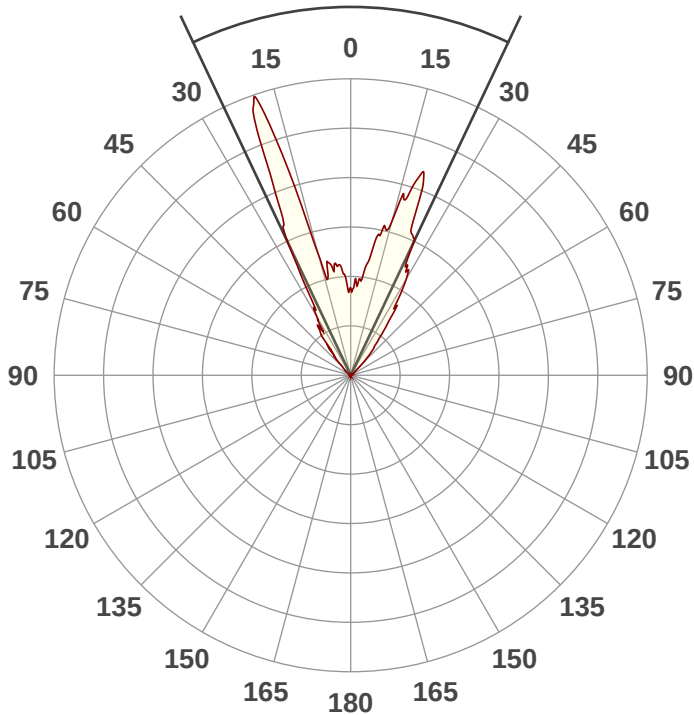
Power: 136.9 W

PF: 1.0



Beam Angle

50.6°



Test:

Date:

7/17/2019

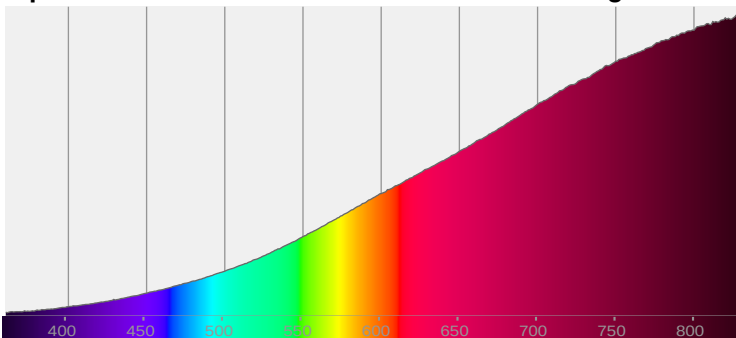
Note:



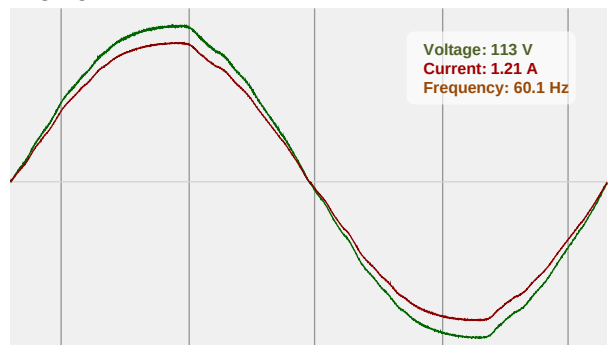
CIE 1931
x: 0.474
y: 0.412

Spectra

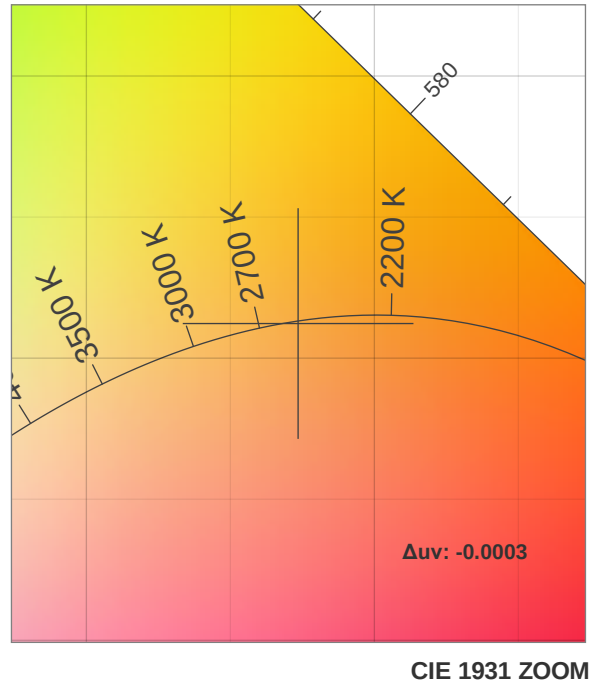
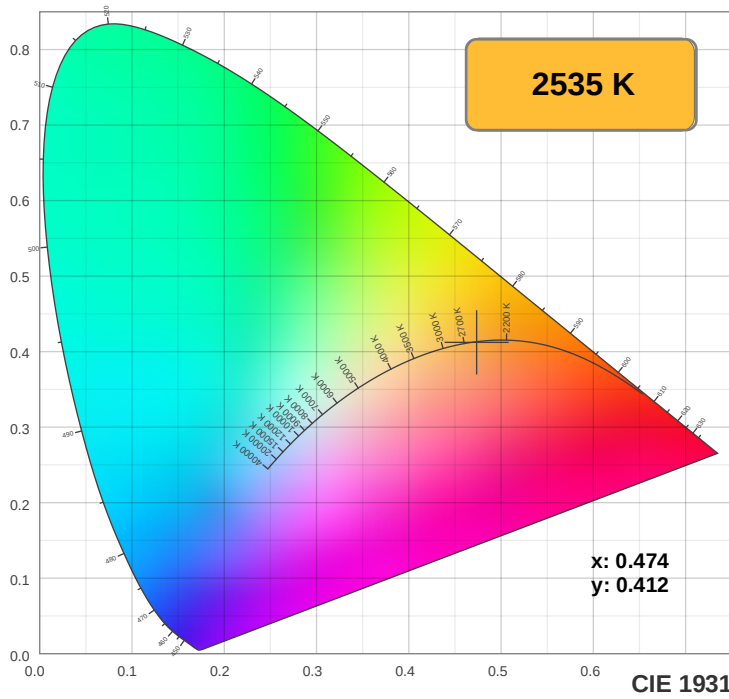
Dominant Wavelength: 586nm



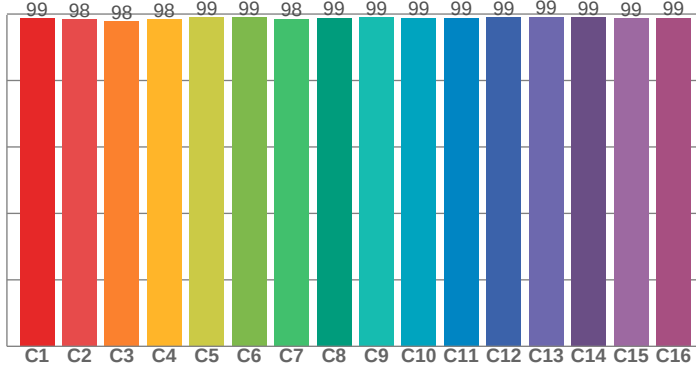
Power



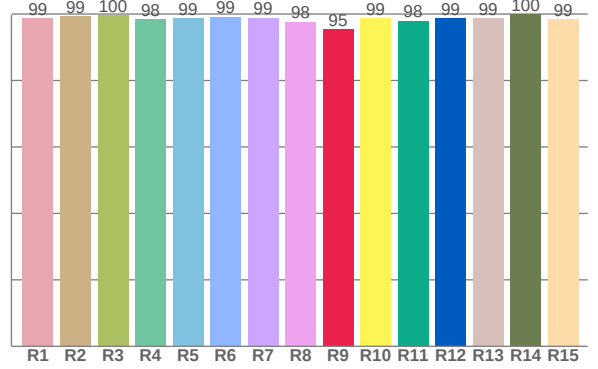
Color Details



TM30: 98.7



CRI: 98.8 (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
98.6	99.4	99.6	98.4	98.6	99.2	98.9	97.7	95.4	98.7	98.0	98.8	98.8	99.8	98.5

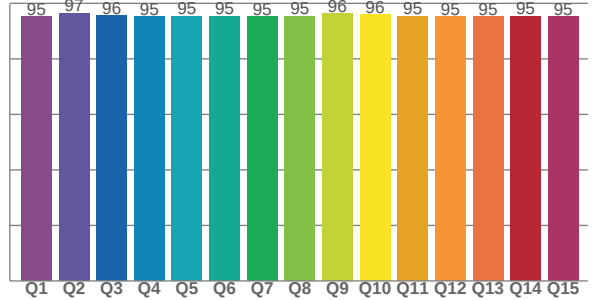
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
98.7	98.4	97.8	98.3	99.0	99.0	98.5	98.8	99.0	98.8	98.9	99.0	99.2	99.0	98.6	98.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95.3	96.5	95.6	95.3	95.4	95.4	95.2	95.3	96.3	95.8	95.4	95.1	95.2	95.3	95.3

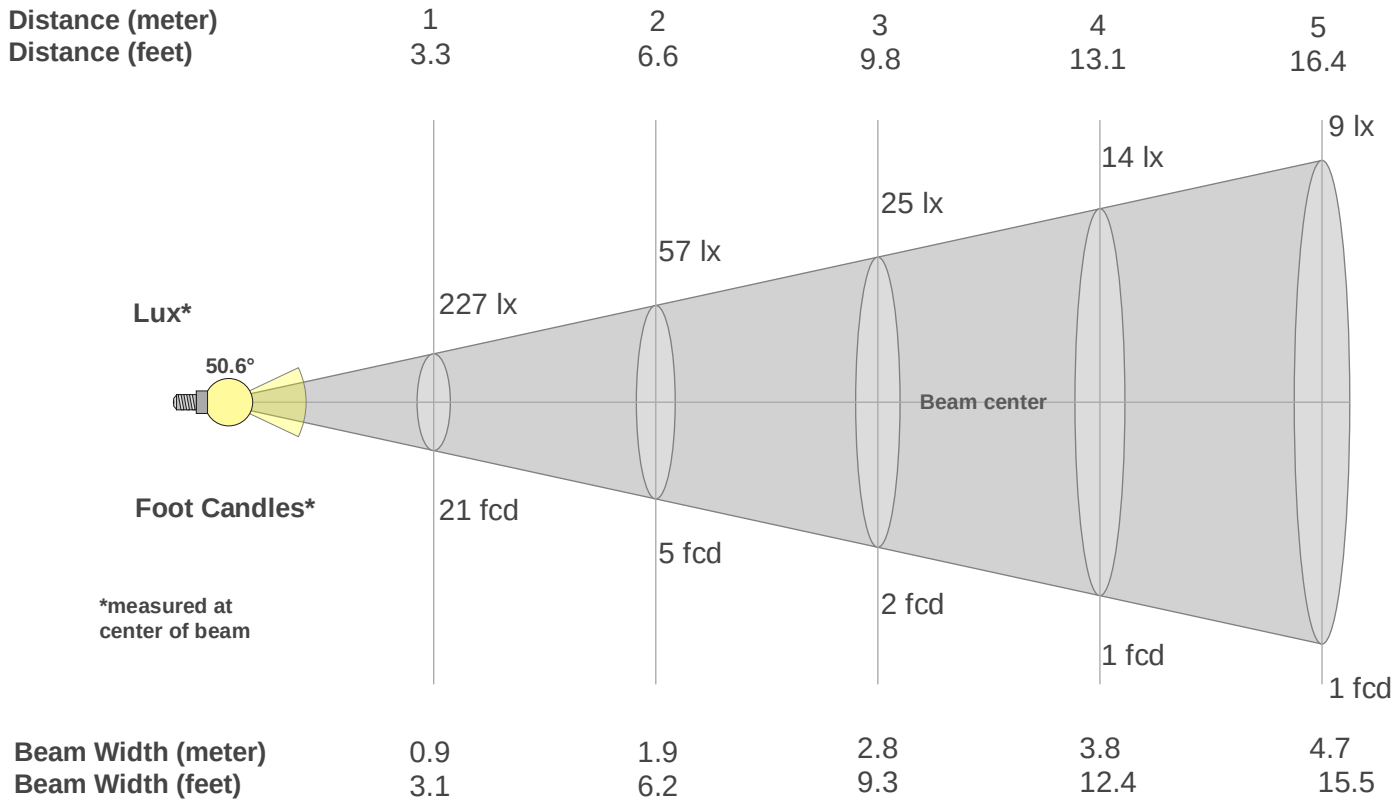
CQS: 95.4



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
2535 K	98.8	95.4	98.7	100.0	95.4	0.474	0.412	0.271	0.353	-0.0003

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	227	57	25	14	9	6	5	4	3	2	2	2	1	1	1	1	1	1	1	1
fcd	21	5.3	2.3	1.3	0.8	0.6	0.4	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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°
227	229	264	288	292	289	298	261	436	690	738	547	428	316	196	175	138	151	131	84
100%	101%	117%	127%	129%	128%	132%	115%	192%	305%	326%	242%	189%	140%	86%	77%	61%	66%	58%	37%

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°
227	229	264	288	292	289	298	261	436	690	738	547	428	316	196	175	138	151	131	84
100%	101%	117%	127%	129%	128%	132%	115%	192%	305%	326%	242%	189%	140%	86%	77%	61%	66%	58%	37%

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°
227	229	234	248	287	339	376	389	482	507	553	440	397	339	305	288	232	208	156	117
100%	101%	103%	110%	127%	150%	166%	172%	213%	224%	244%	194%	175%	150%	135%	127%	102%	92%	69%	52%

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°
227	229	234	248	287	339	376	389	482	507	553	440	397	339	305	288	232	208	156	117
100%	101%	103%	110%	127%	150%	166%	172%	213%	224%	244%	194%	175%	150%	135%	127%	102%	92%	69%	52%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
50.6°	81.7°	96.7°	99.6%	95.8%