

Light efficiency:

61 Lumen/Watt

Light quality:

CRI: 93.0

Color temperature:

2949 K

Output: 1246 lm

Peak: 4129 cd

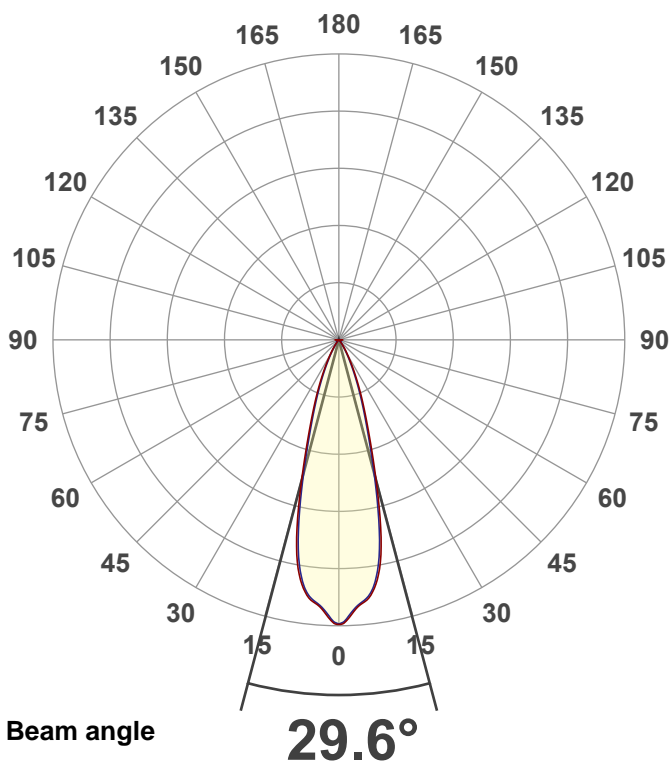
Power: 20.5 W

PF: 0.97



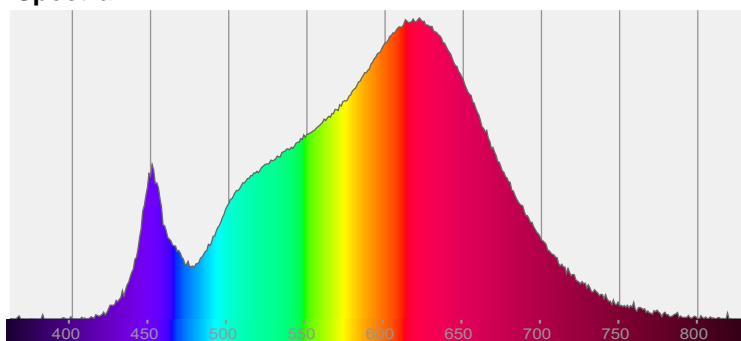
NUE4-RD-SW-20LM-30K-90-30D-HCL-WH-WH

Date and time:
8/1/2023 12:46:47 PM

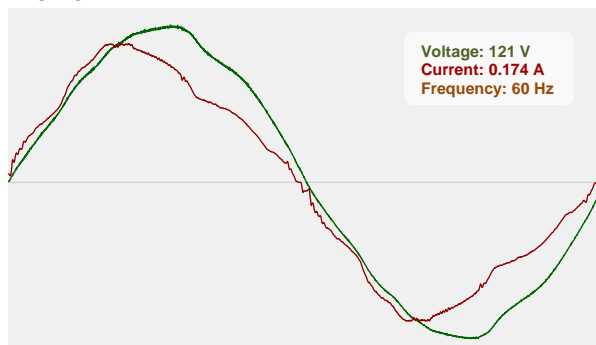


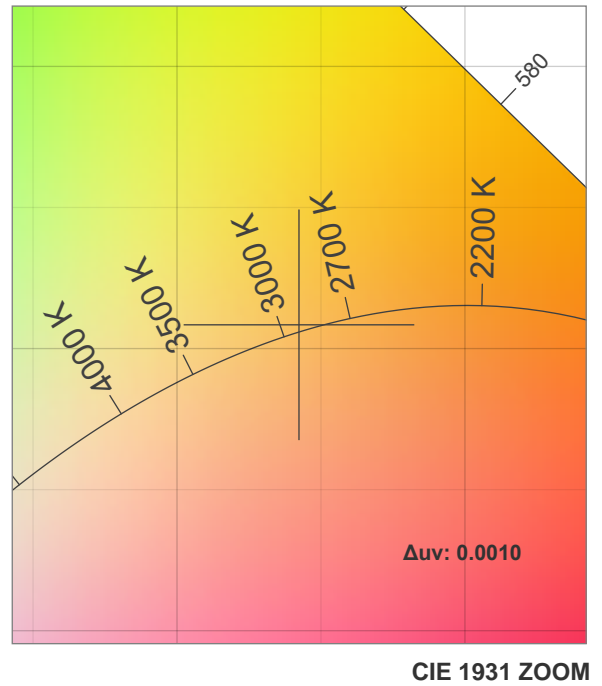
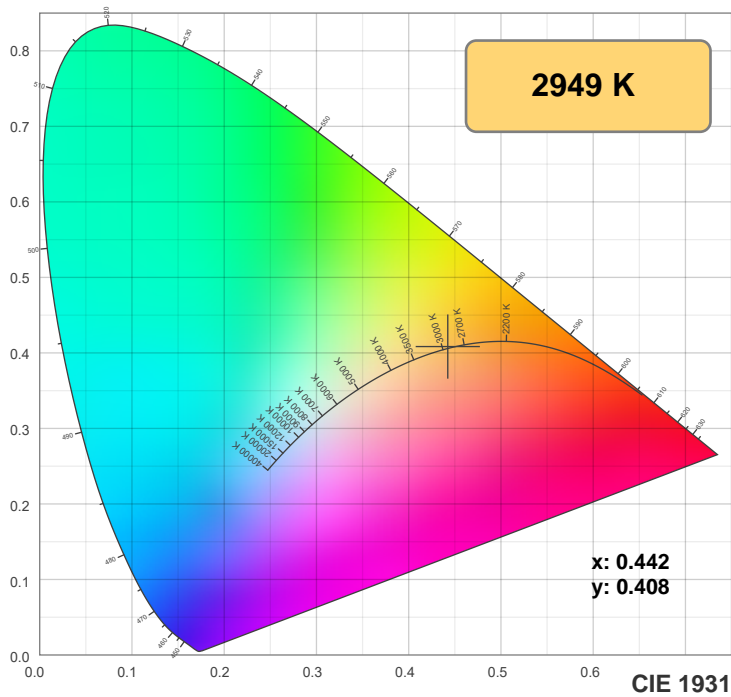
CIE 1931
x: 0.442
y: 0.408

Spectra

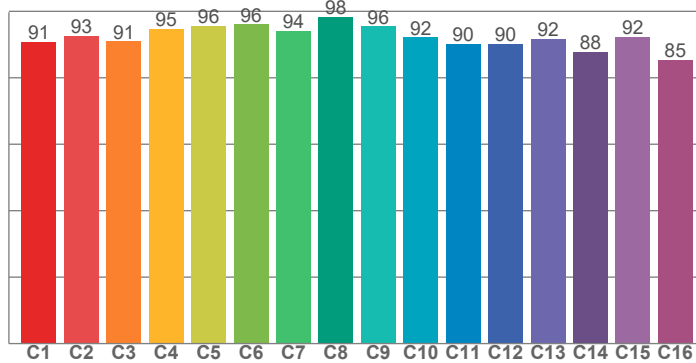


Power

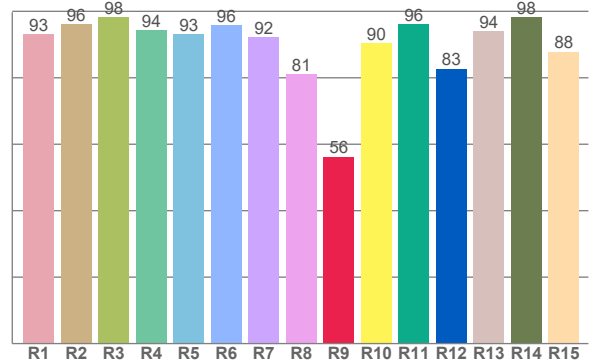




TM30: 92.4



CRI: 93.0 (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
93.2	96.0	98.2	94.4	93.1	95.9	92.2	81.1	56.2	90.3	96.2	82.8	94.0	98.3	87.8

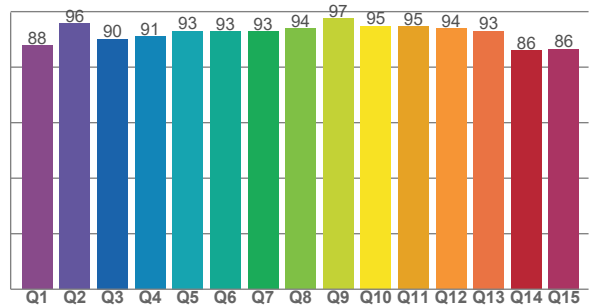
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.7	92.5	90.9	94.7	95.6	96.1	94.2	98.4	95.5	92.2	90.2	90.2	91.8	87.8	92.2	85.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.7	95.8	90.2	90.9	93.1	92.8	92.8	93.9	97.5	94.8	94.6	93.9	93.1	85.9	86.5

CQS: 91.4



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
2949 K	93.0	56.2	92.4	99.2	91.4	0.442	0.408	0.252	0.349	0.0010

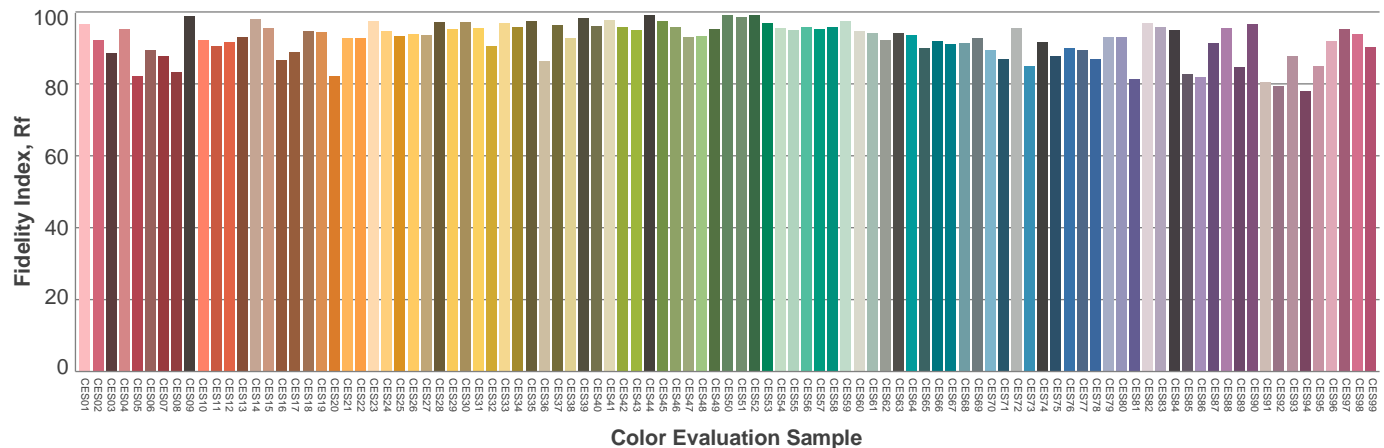
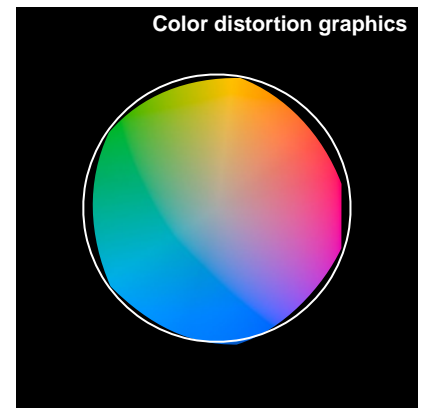
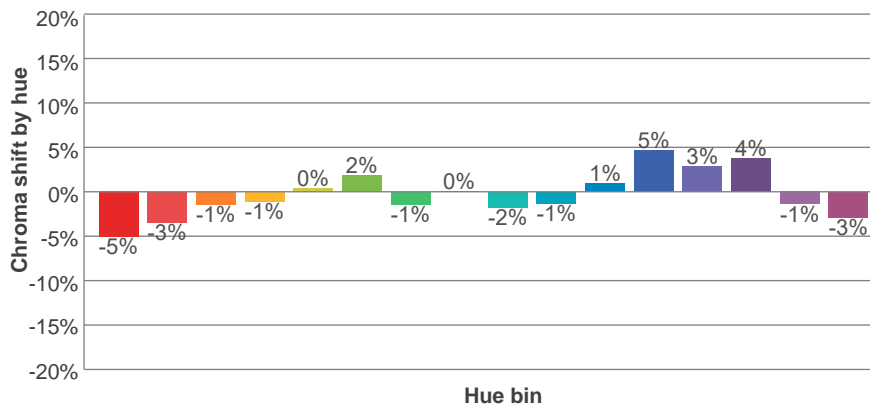
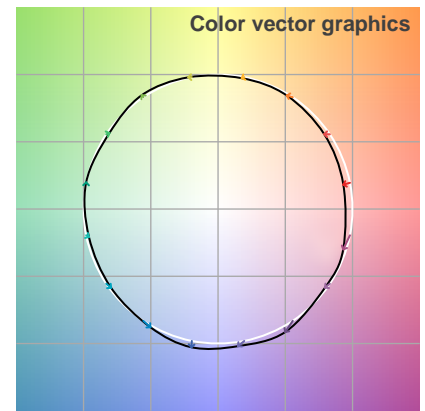
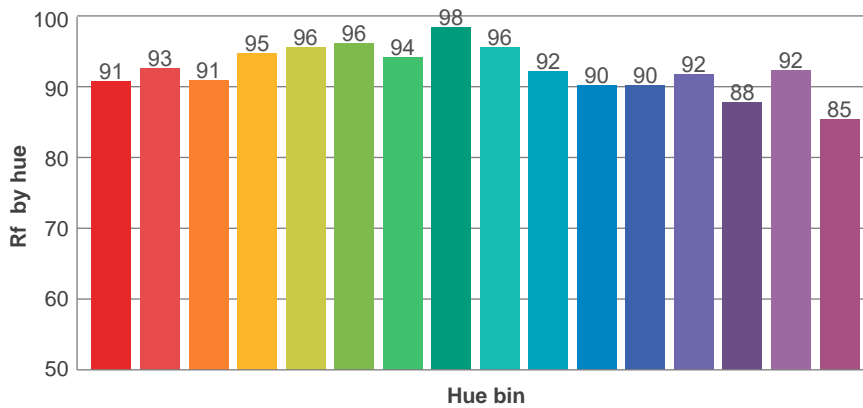
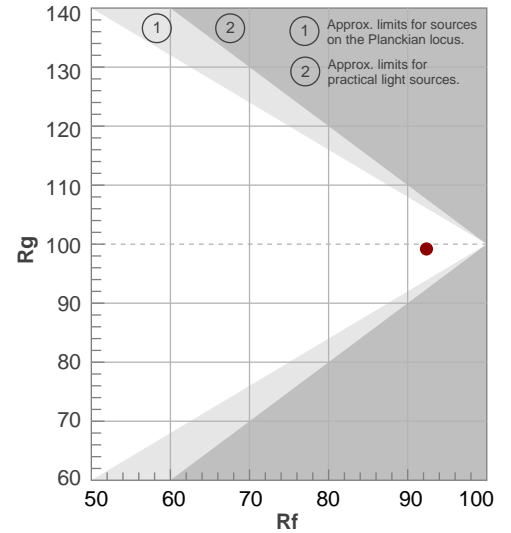
Rf 92.4

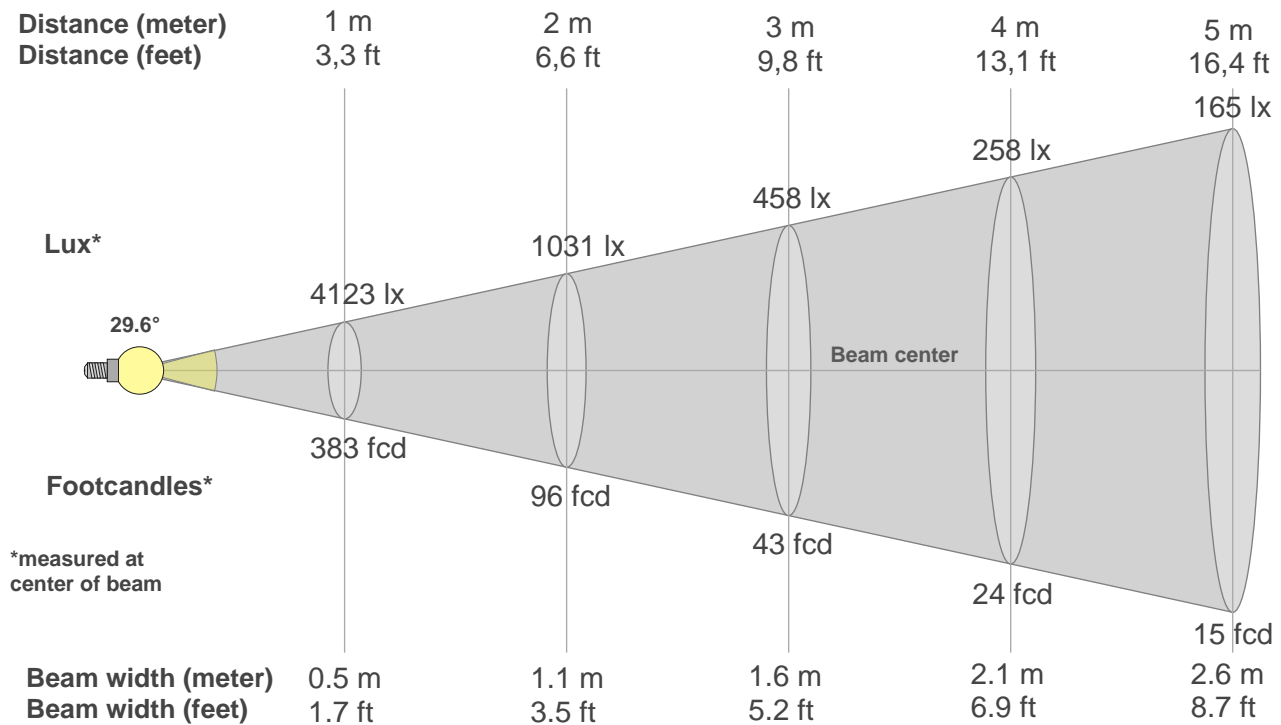
Fidelity index Rf

Rg 99.2

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	91	-1%	4%
4	95	-1%	2%
5	96	0%	3%
6	96	2%	0%
7	94	-1%	-2%
8	98	0%	0%
9	96	-2%	2%
10	92	-1%	4%
11	90	1%	7%
12	90	5%	1%
13	92	3%	-5%
14	88	4%	-9%
15	92	-1%	-4%
16	85	-3%	-11%





Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
4123lx	1031lx	458lx	258lx	165lx	115lx	84lx	64lx	51lx	41lx	34lx	29lx	24lx	21lx	18lx	16lx	14lx	13lx	11lx	10lx
383.1fcd	95.8fcd	42.6fcd	23.9fcd	15.3fcd	10.6fcd	7.8fcd	6fcd	4.7fcd	3.8fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd	1fcd

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°
4123	4033	3882	3792	3642	3374	2935	2354	1807	1388	1083	846	649	488	361	263	192	132	84	51
100%	98%	94%	92%	88%	82%	71%	57%	44%	34%	26%	21%	16%	12%	9%	6%	5%	3%	2%	1%

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°
4123	4002	3858	3768	3606	3297	2813	2223	1688	1289	996	764	573	420	302	216	150	101	67	45
100%	97%	94%	91%	87%	80%	68%	54%	41%	31%	24%	19%	14%	10%	7%	5%	4%	2%	2%	1%

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°
4123	4033	3882	3792	3642	3374	2935	2354	1807	1388	1083	846	649	488	361	263	192	132	84	51
100%	98%	94%	92%	88%	82%	71%	57%	44%	34%	26%	21%	16%	12%	9%	6%	5%	3%	2%	1%

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°
4123	4002	3858	3768	3606	3297	2813	2223	1688	1289	996	764	573	420	302	216	150	101	67	45
100%	97%	94%	91%	87%	80%	68%	54%	41%	31%	24%	19%	14%	10%	7%	5%	4%	2%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29.6°	53.3°	69°	99.5%	99.0%