

Light efficiency:

97 Lumen/Watt

Light quality:

CRI: 93.1

Color temperature:

2963 K

Output: 2004 lm

Peak: 4295 cd

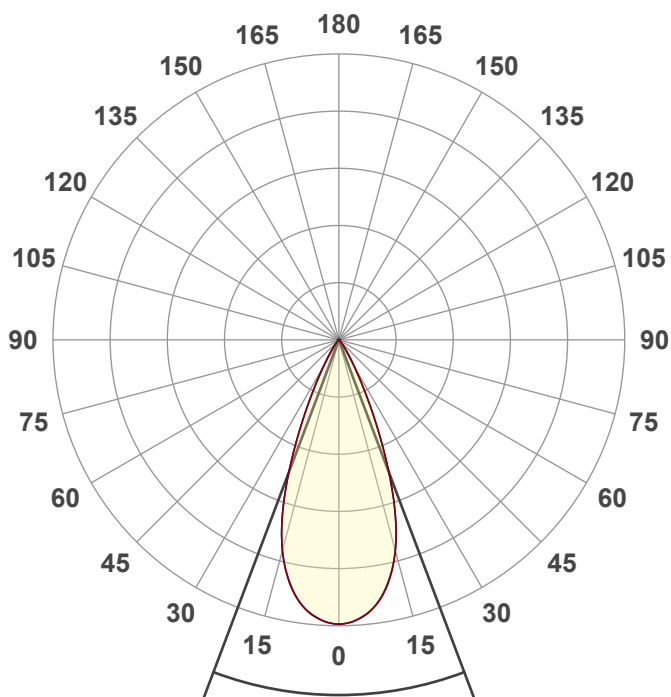
Power: 20.7 W

PF: 0.97



NUE4-RD-SW-20LM-30K-90-40D-NL-WH-WH

Date and time:
8/1/2023 11:22:14 AM



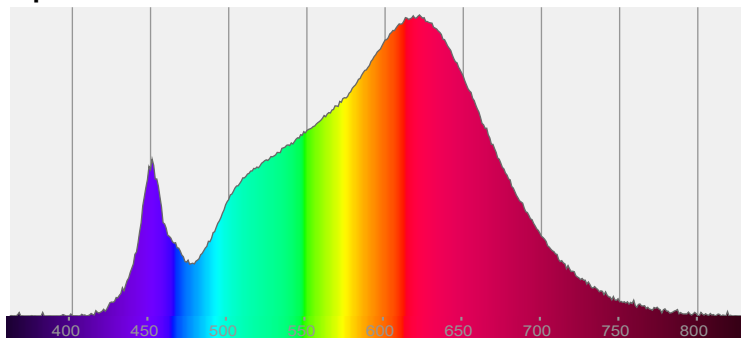
Beam angle

41.4°

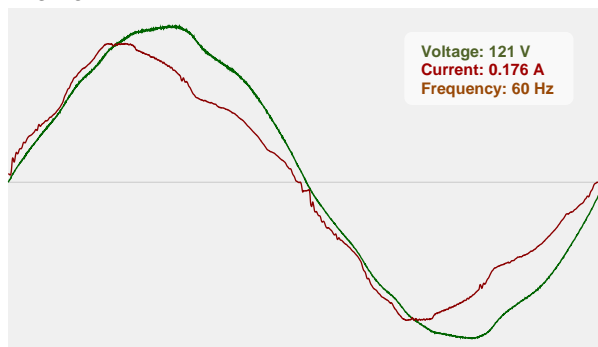


CIE 1931
x: 0.441
y: 0.408

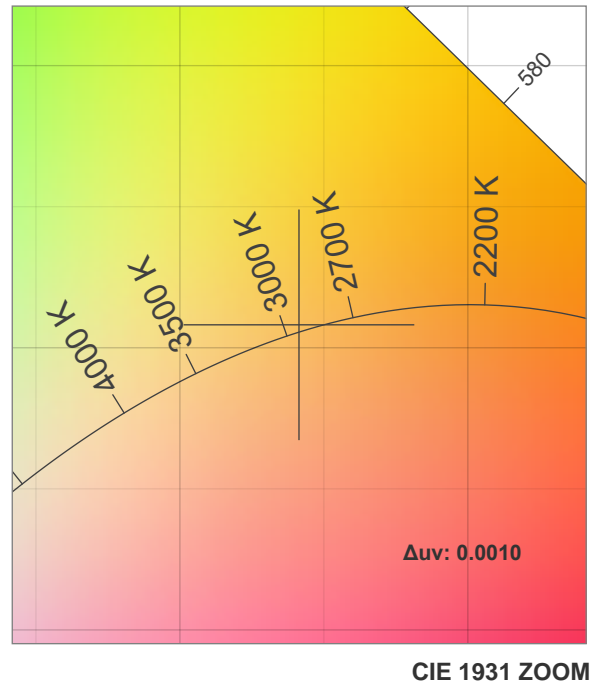
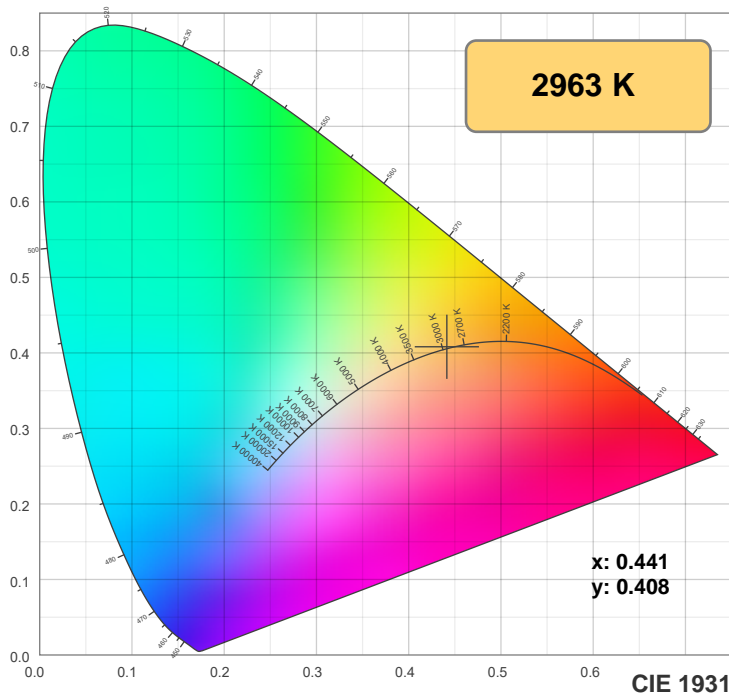
Spectra



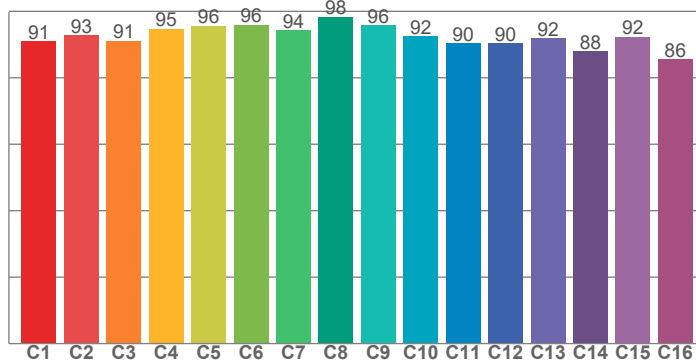
Power



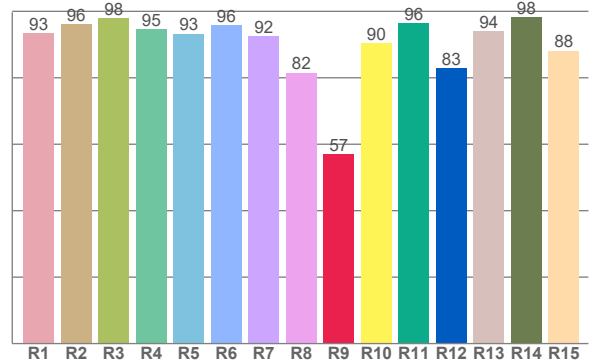
Voltage: 121 V
Current: 0.176 A
Frequency: 60 Hz



TM30: 92.5



CRI: 93.1 (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
93.3	96.0	98.0	94.6	93.2	95.9	92.5	81.5	57.1	90.3	96.4	82.9	94.1	98.2	88.1

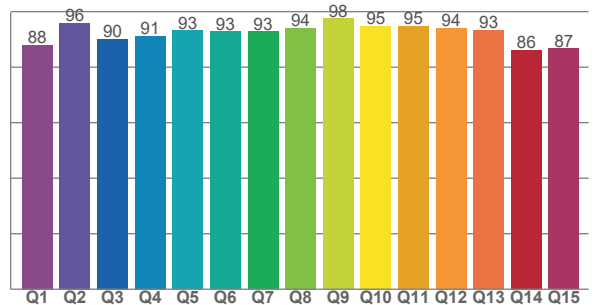
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.0	92.7	91.0	94.7	95.6	96.0	94.3	98.4	95.7	92.5	90.3	90.3	91.9	88.0	92.4	85.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.9	95.9	90.2	91.2	93.2	92.8	92.8	94.0	97.5	94.9	94.7	94.0	93.3	86.2	86.7

CQS: 91.5



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
2963 K	93.1	57.1	92.5	99.3	91.5	0.441	0.408	0.252	0.349	0.0010

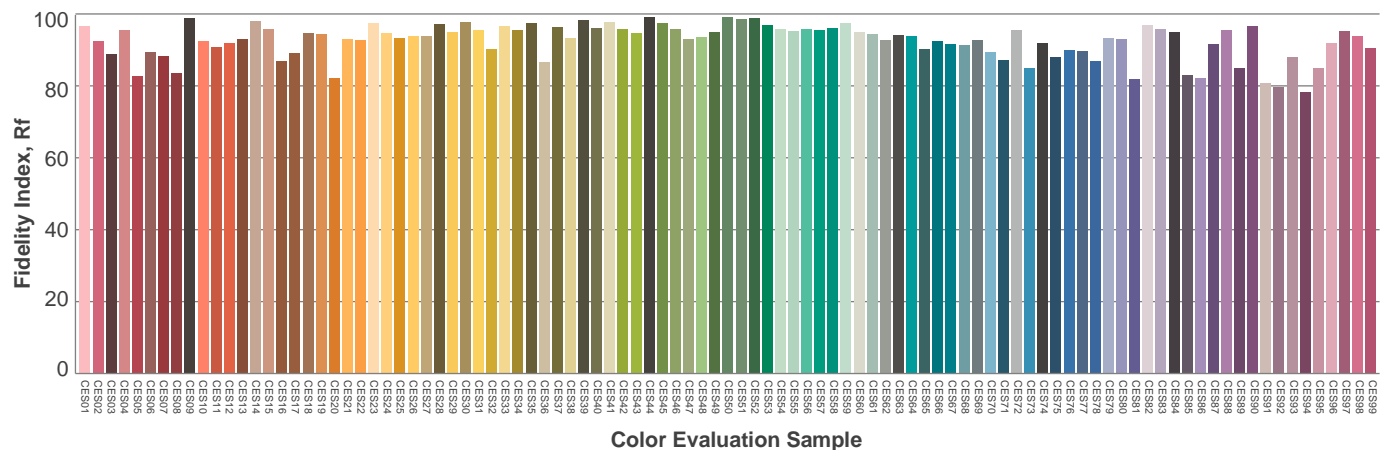
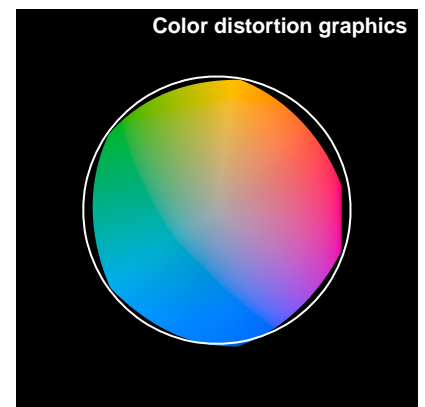
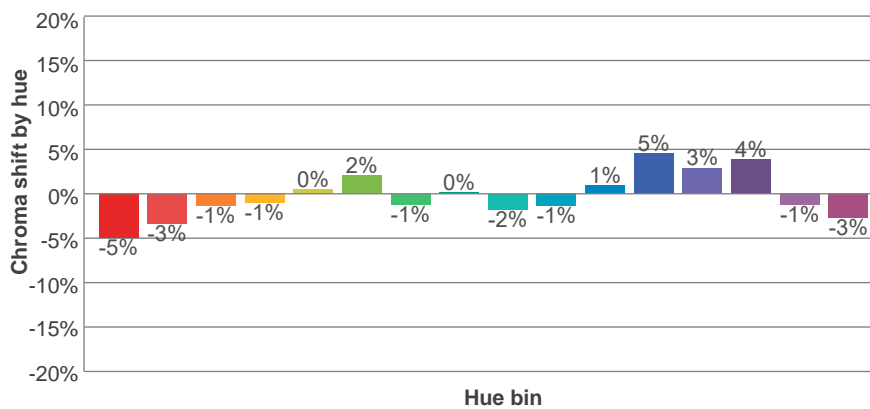
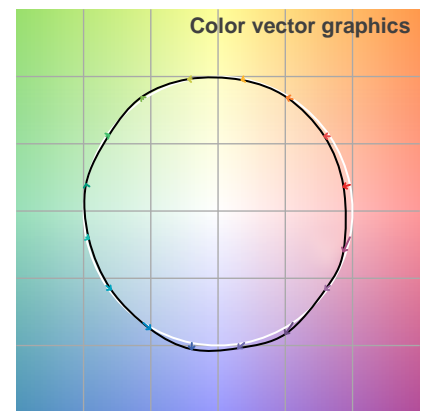
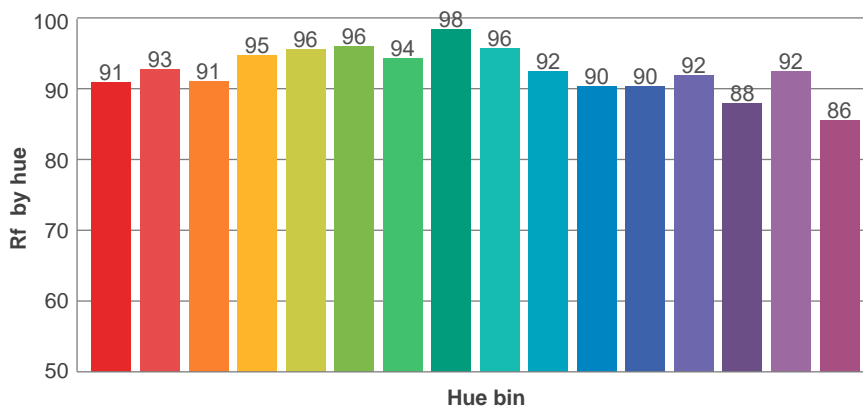
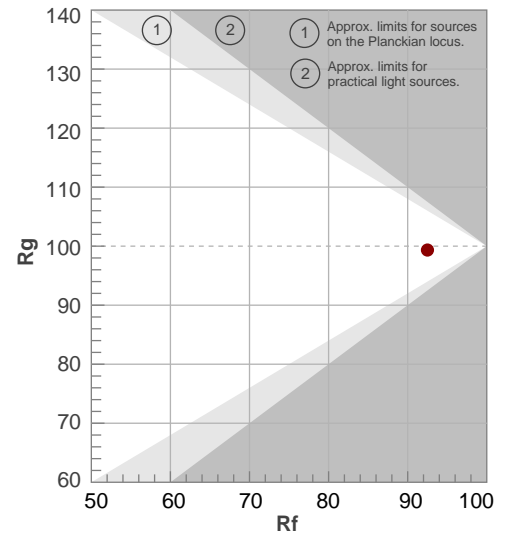
Rf 92.5

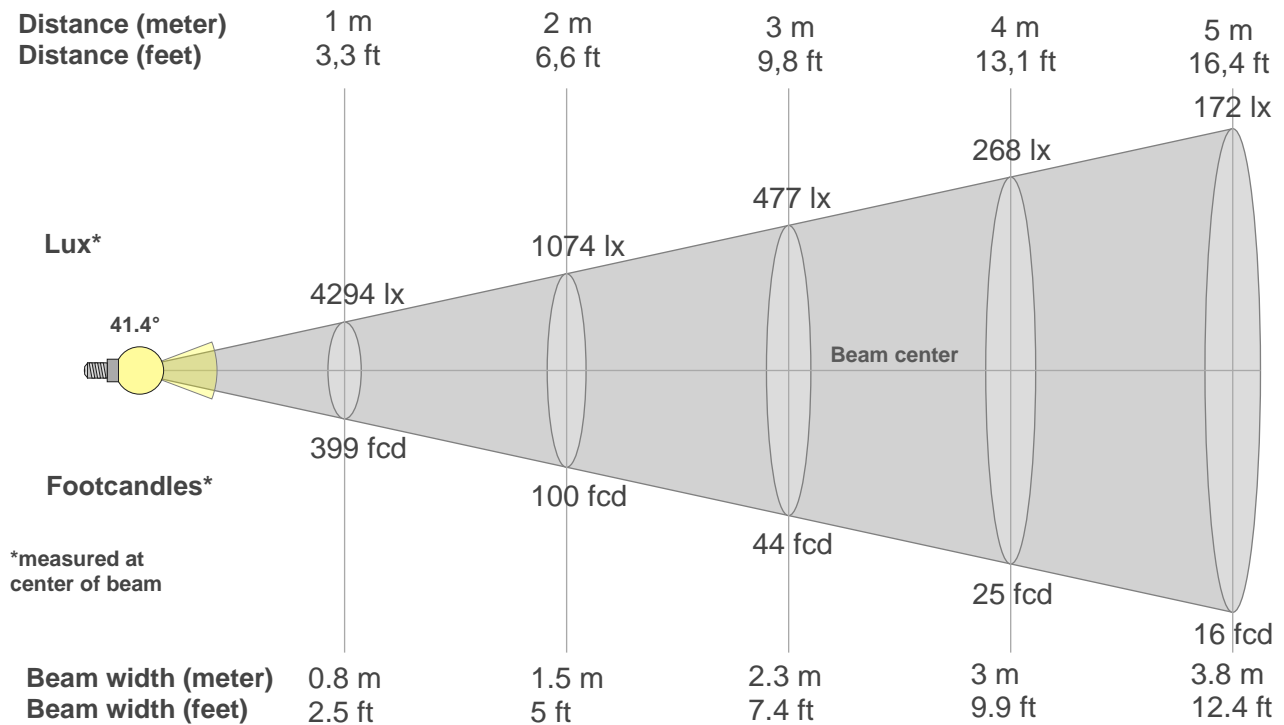
Fidelity index Rf

Rg 99.3

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%	1%
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	86	-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
4294lx	1074lx	477lx	268lx	172lx	119lx	88lx	67lx	53lx	43lx	35lx	30lx	25lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
398.9fcd	99.7fcd	44.3fcd	24.9fcd	16fcd	11.1fcd	8.1fcd	6.2fcd	4.9fcd	4fcd	3.3fcd	2.8fcd	2.4fcd	2fcd	1.8fcd	1.6fcd	1.4fcd	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°
4294	4280	4232	4157	4045	3891	3691	3440	3129	2752	2302	1831	1386	1011	707	484	335	230	150	97
100%	100%	99%	97%	94%	91%	86%	80%	73%	64%	54%	43%	32%	24%	16%	11%	8%	5%	3%	2%

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°
4294	4278	4226	4149	4039	3879	3677	3435	3129	2749	2302	1824	1365	977	675	454	312	215	143	94
100%	100%	98%	97%	94%	90%	86%	80%	73%	64%	54%	42%	32%	23%	16%	11%	7%	5%	3%	2%

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°
4294	4280	4232	4157	4045	3891	3691	3440	3129	2752	2302	1831	1386	1011	707	484	335	230	150	97
100%	100%	99%	97%	94%	91%	86%	80%	73%	64%	54%	43%	32%	24%	16%	11%	8%	5%	3%	2%

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°
4294	4278	4226	4149	4039	3879	3677	3435	3129	2749	2302	1824	1365	977	675	454	312	215	143	94
100%	100%	98%	97%	94%	90%	86%	80%	73%	64%	54%	42%	32%	23%	16%	11%	7%	5%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41.4°	61.3°	75°	99.5%	98.8%