

Light efficiency:

92 Lumen/Watt

Light quality:

CRI: 93.2

Color temperature:

2930 K

Output: 1882 lm

Peak: 3734 cd

Power: 20.5 W

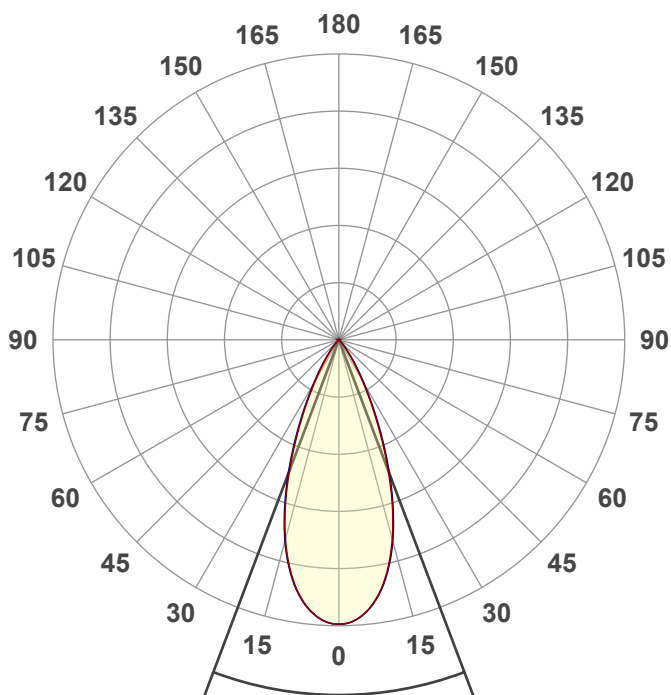
PF: 0.97



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

Date and time:

8/4/2023 1:35:47 PM



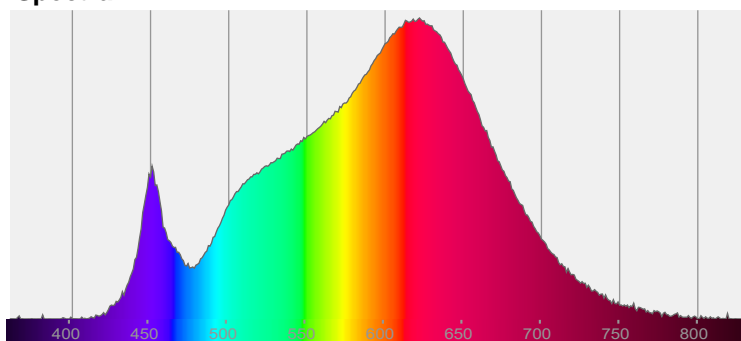
Beam angle

41.4°

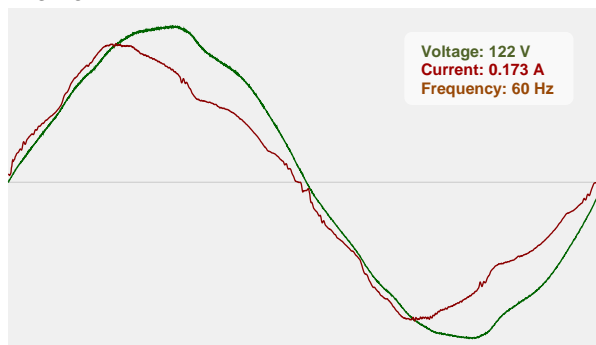


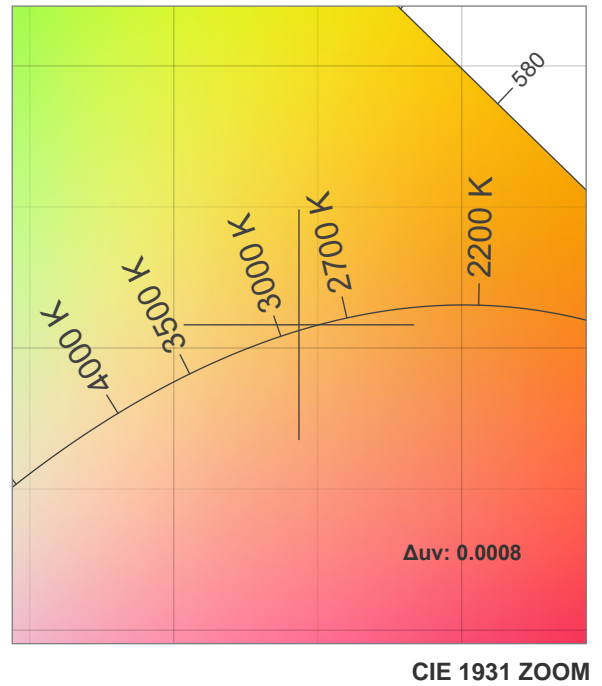
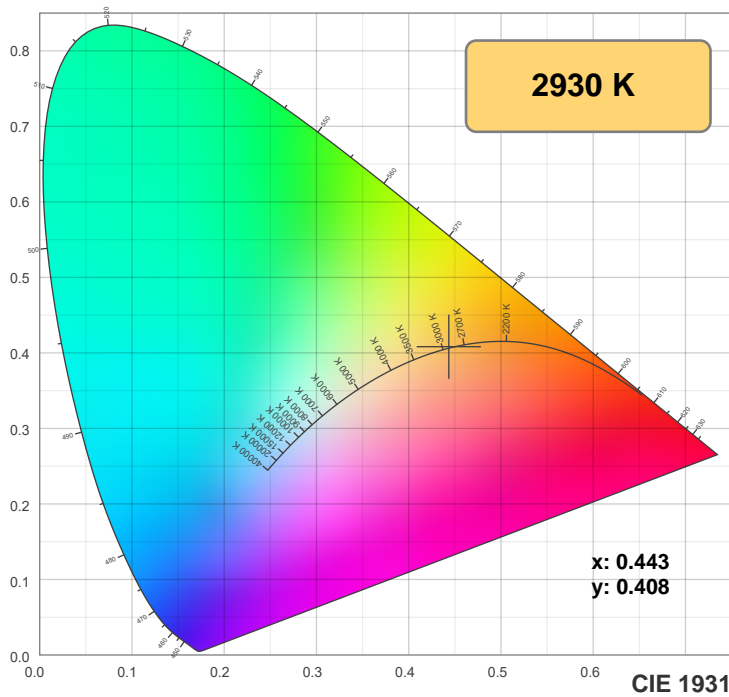
CIE 1931
x: 0.443
y: 0.408

Spectra

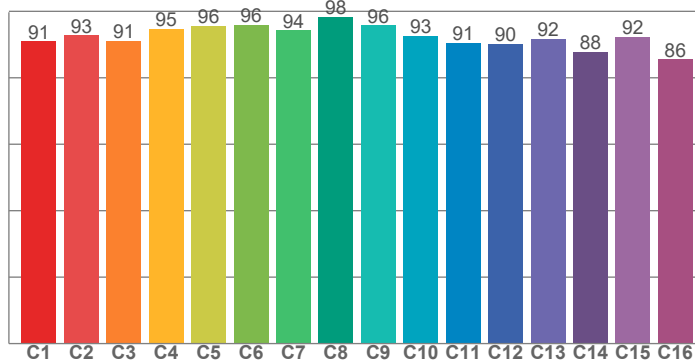


Power

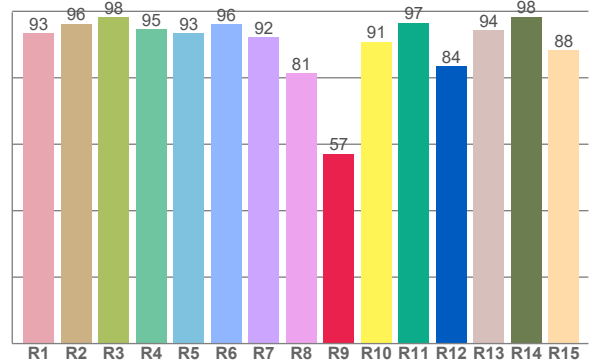




TM30: 92.5



CRI: 93.2 (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
93.5	96.2	98.2	94.7	93.4	96.1	92.3	81.4	57.1	90.8	96.5	83.5	94.3	98.3	88.2

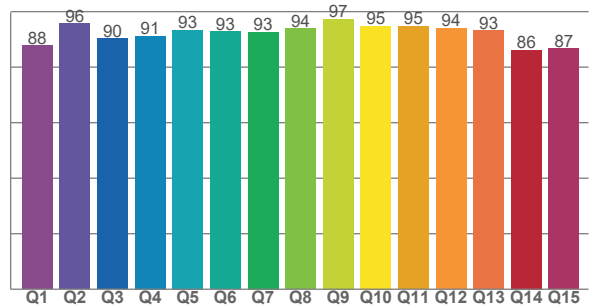
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.0	92.7	91.0	94.8	95.6	95.9	94.2	98.3	95.8	92.6	90.5	90.2	91.7	87.9	92.3	85.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.8	95.7	90.3	91.3	93.3	92.9	92.7	93.9	97.4	94.9	94.7	94.0	93.2	86.2	86.6

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
2930 K	93.2	57.1	92.5	99.4	91.5	0.443	0.408	0.253	0.349	0.0008

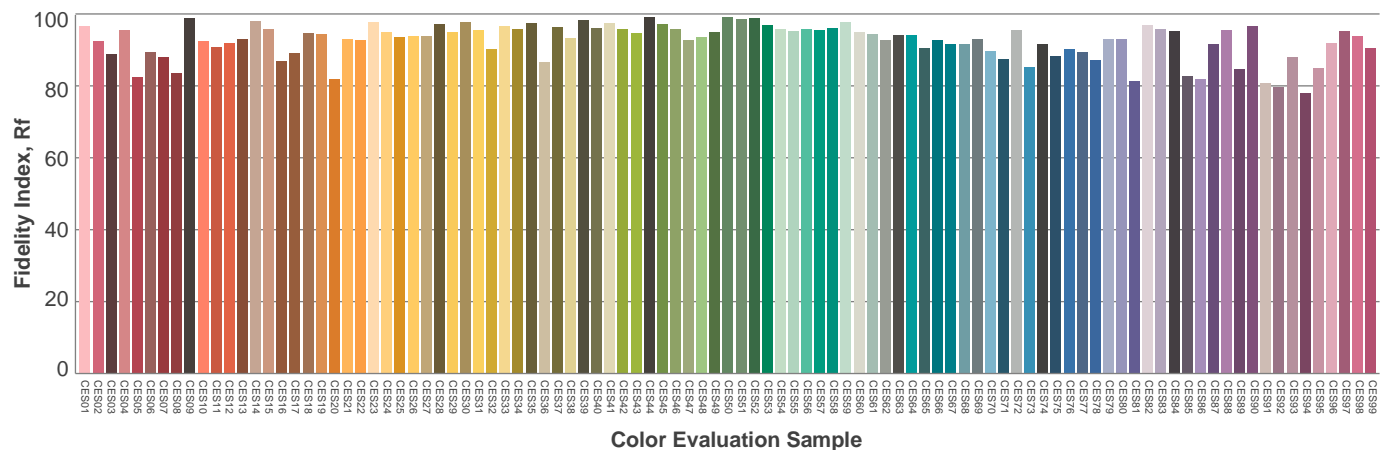
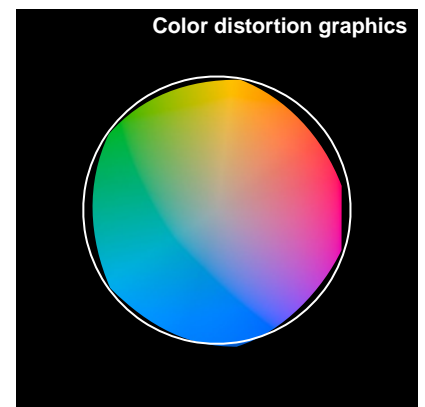
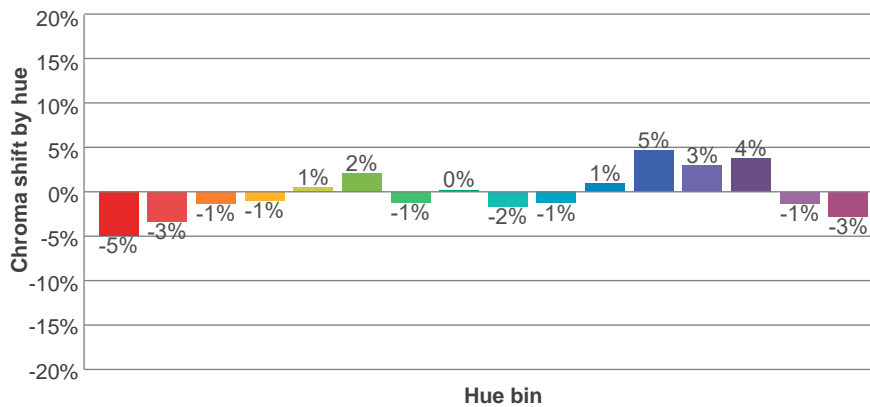
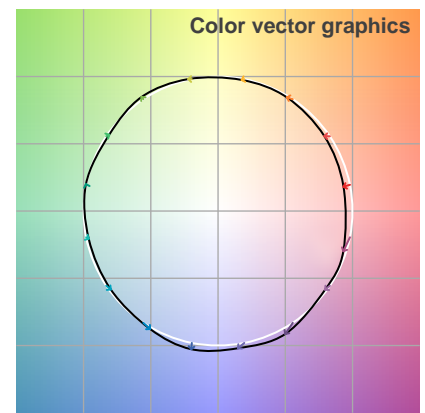
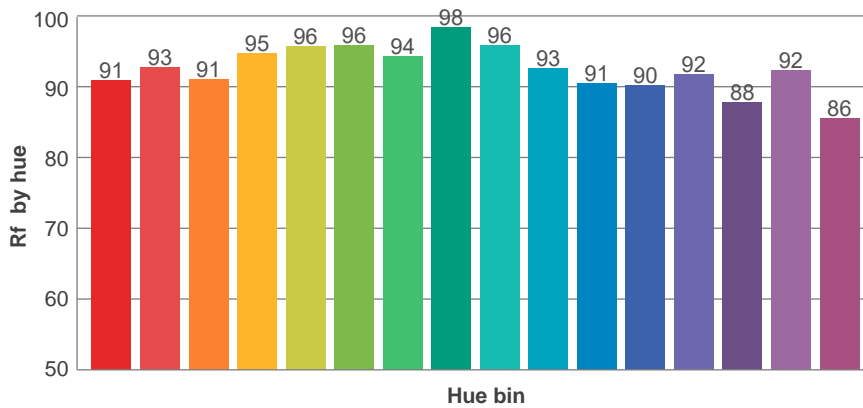
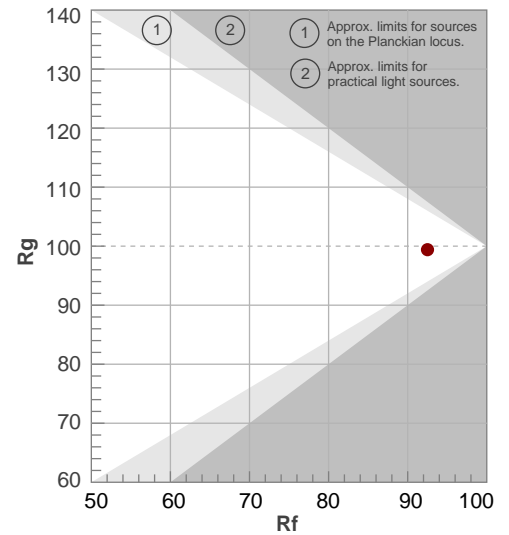
Rf 92.5

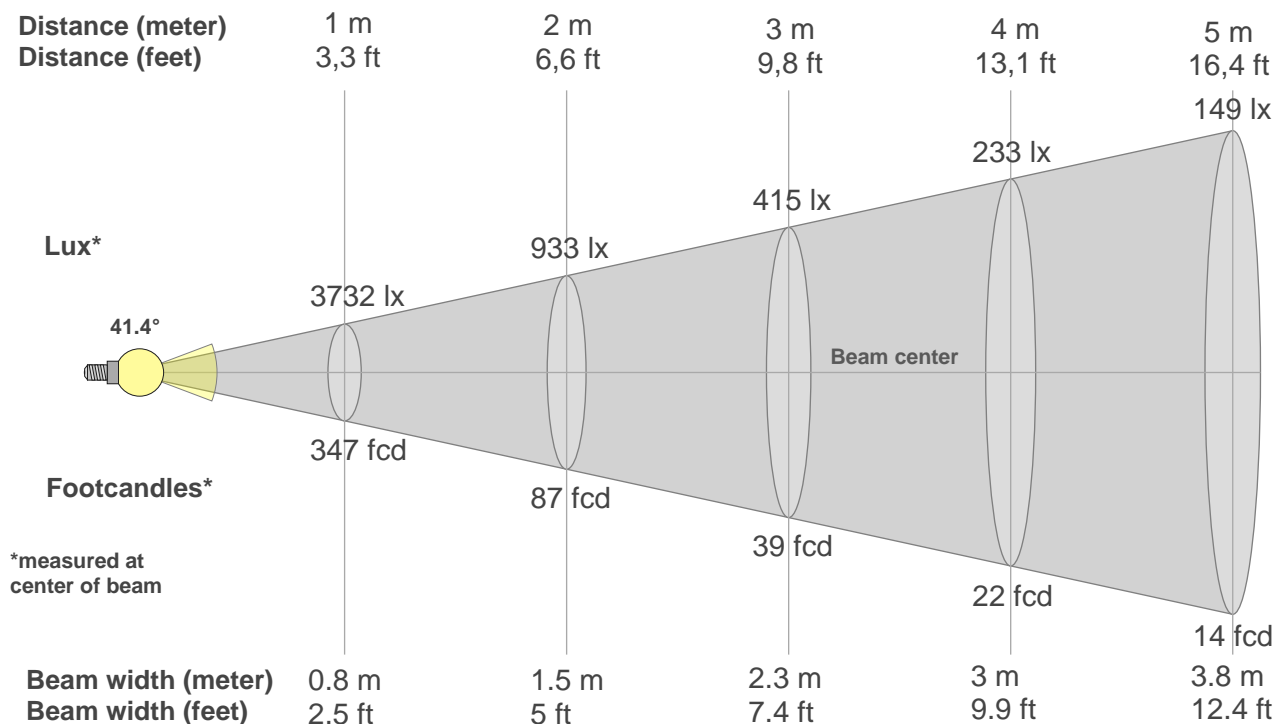
Fidelity index Rf

Rg 99.4

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	1%	3%
6	96	2%	0%
7	94	-1%	-2%
8	98	0%	0%
9	96	-2%	1%
10	93	-1%	4%
11	91	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
3732lx	933lx	415lx	233lx	149lx	104lx	76lx	58lx	46lx	37lx	31lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	10lx	9lx
346.7fcd	86.7fcd	38.5fcd	21.7fcd	13.9fcd	9.6fcd	7.1fcd	5.4fcd	4.3fcd	3.5fcd	2.9fcd	2.4fcd	2.1fcd	1.8fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

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°
3732	3715	3663	3571	3446	3283	3078	2841	2568	2270	1950	1631	1323	1053	816	620	461	334	236	160
100%	100%	98%	96%	92%	88%	82%	76%	69%	61%	52%	44%	35%	28%	22%	17%	12%	9%	6%	4%

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°
3732	3716	3665	3576	3454	3293	3094	2862	2593	2297	1988	1674	1373	1099	857	660	498	365	252	165
100%	100%	98%	96%	93%	88%	83%	77%	69%	62%	53%	45%	37%	29%	23%	18%	13%	10%	7%	4%

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°
3732	3715	3663	3571	3446	3283	3078	2841	2568	2270	1950	1631	1323	1053	816	620	461	334	236	160
100%	100%	98%	96%	92%	88%	82%	76%	69%	61%	52%	44%	35%	28%	22%	17%	12%	9%	6%	4%

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°
3732	3716	3665	3576	3454	3293	3094	2862	2593	2297	1988	1674	1373	1099	857	660	498	365	252	165
100%	100%	98%	96%	93%	88%	83%	77%	69%	62%	53%	45%	37%	29%	23%	18%	13%	10%	7%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
41.4°	67.2°	81.7°	99.5%	98.5%