

Light efficiency:

36 Lumen/Watt

Light quality:

CRI: 83.4

Color temperature:

2883 K

Output: 1270 lm

Peak: 6447 cd

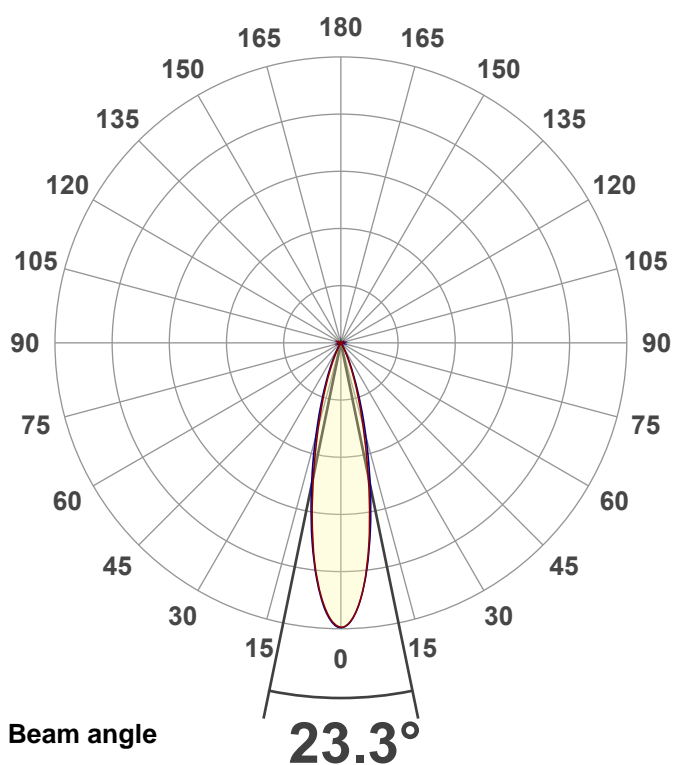
Power: 35.5 W

PF: 0.98



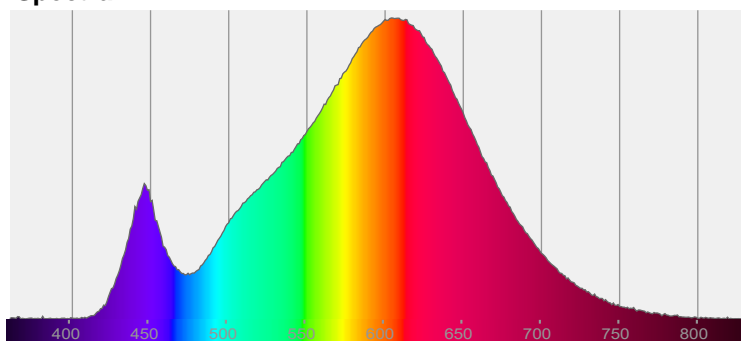
NU4-RAPH-XTM09-20LM-30K-83-20D-SBL-WH

Date and time:
1/4/2022 3:48:19 PM

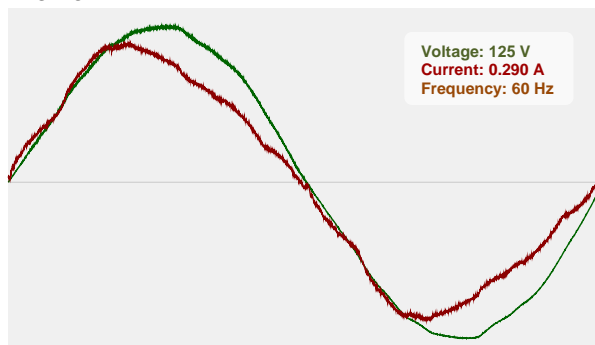


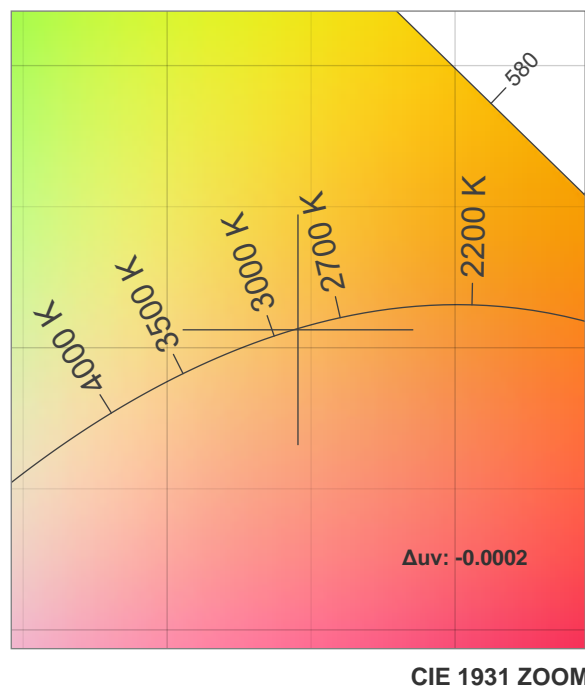
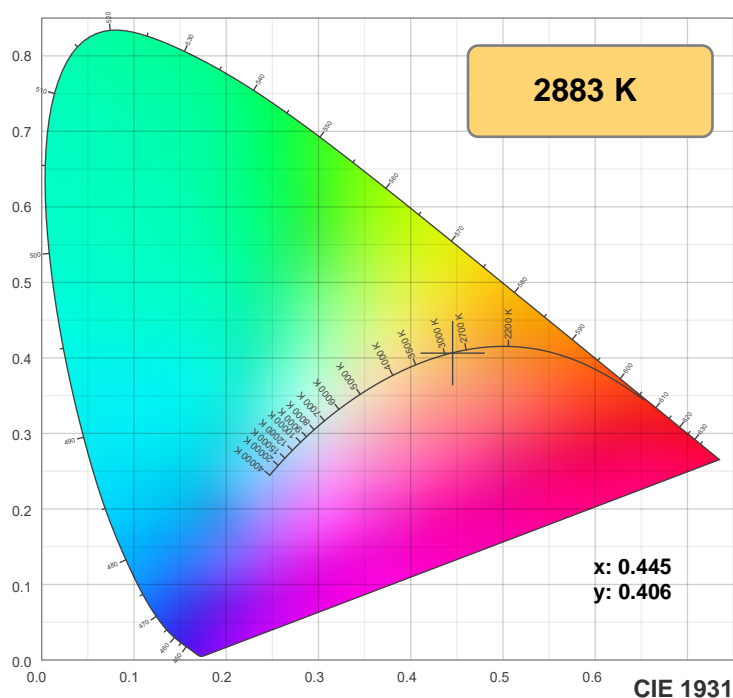
CIE 1931
x: 0.445
y: 0.406

Spectra

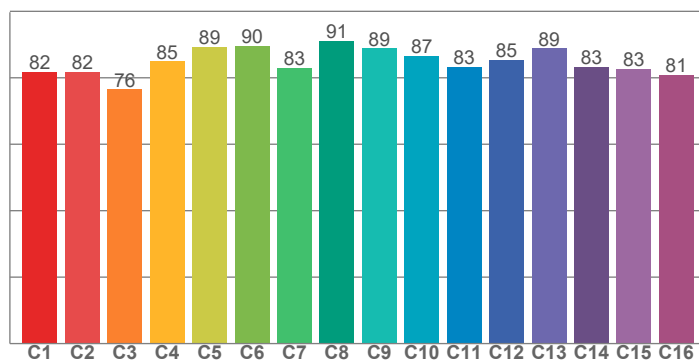


Power

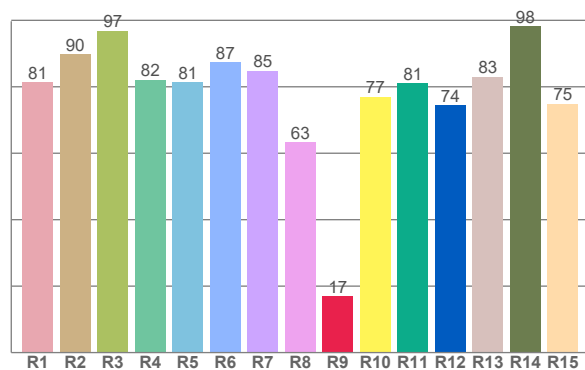




TM30: 84.7



CRI: 83.4 (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
81.4	89.9	96.9	82.1	81.3	87.4	84.8	63.4	17.1	77.0	81.0	74.4	83.1	98.2	74.9

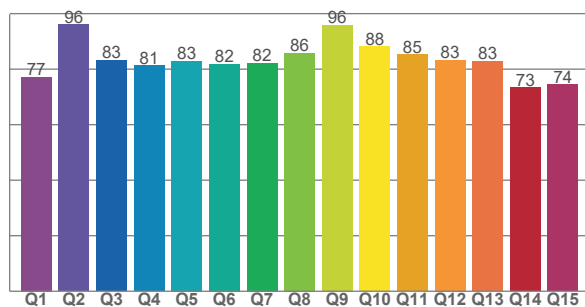
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.8	81.8	76.5	84.9	89.3	89.7	83.0	91.1	88.8	86.5	83.3	85.4	88.9	83.3	82.7	80.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.2	96.0	83.2	81.3	82.9	81.8	82.2	85.8	95.8	88.2	85.3	83.3	82.9	73.4	74.5

CQS: 82.3



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
2883 K	83.4	17.1	84.7	98.3	82.3	0.445	0.406	0.255	0.349	-0.0002

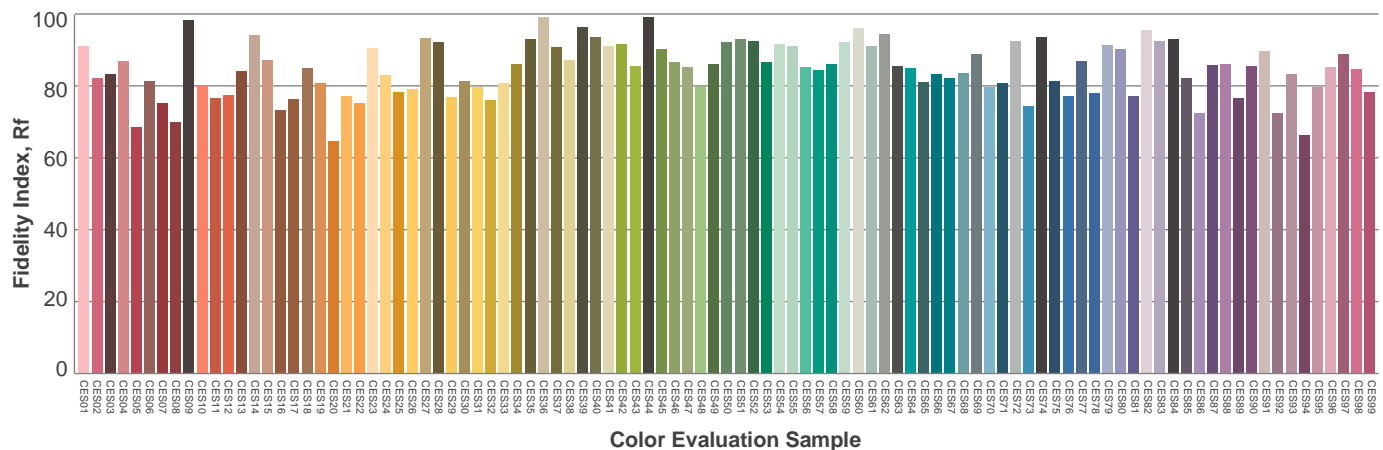
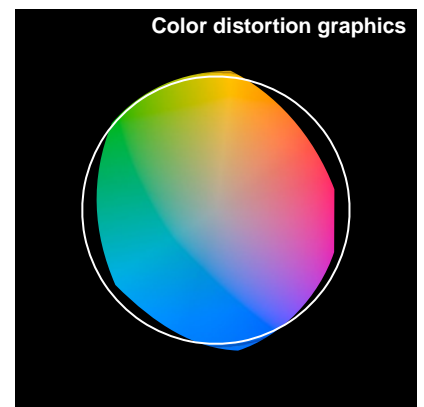
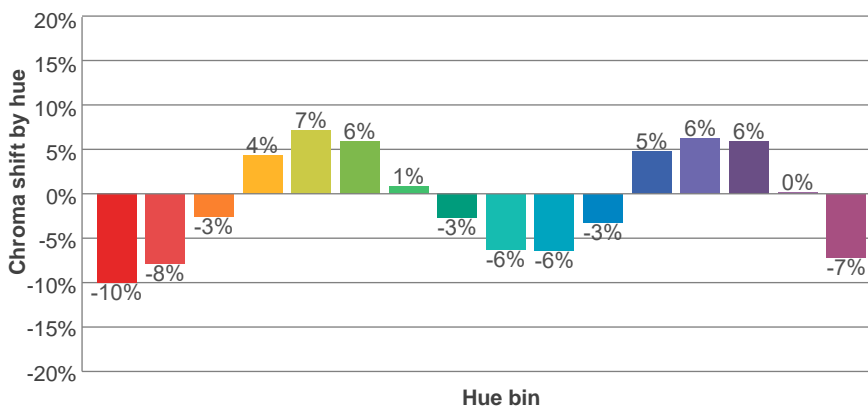
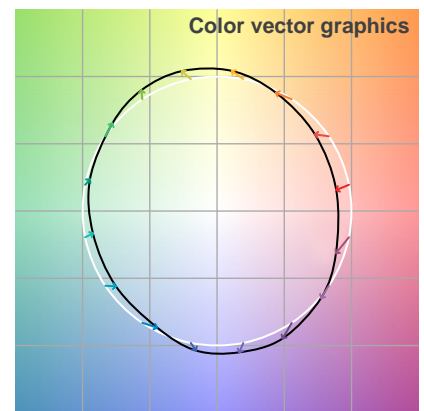
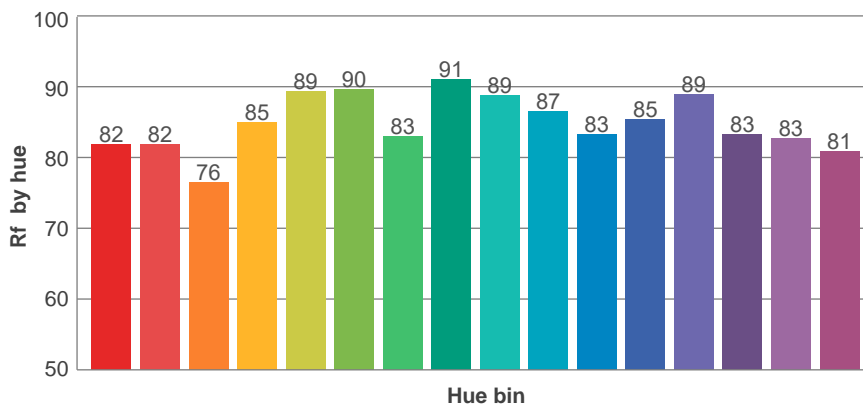
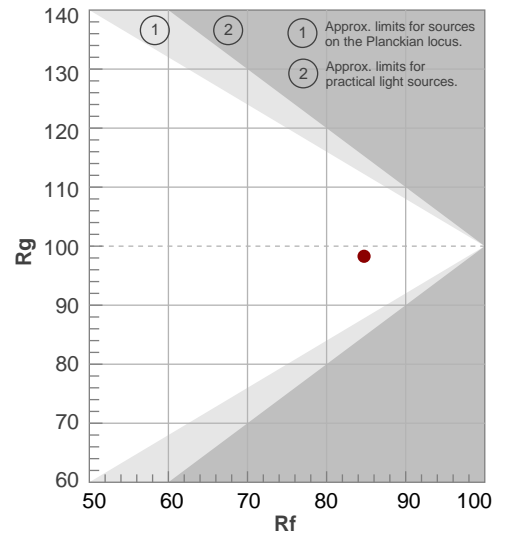
Rf 84.7

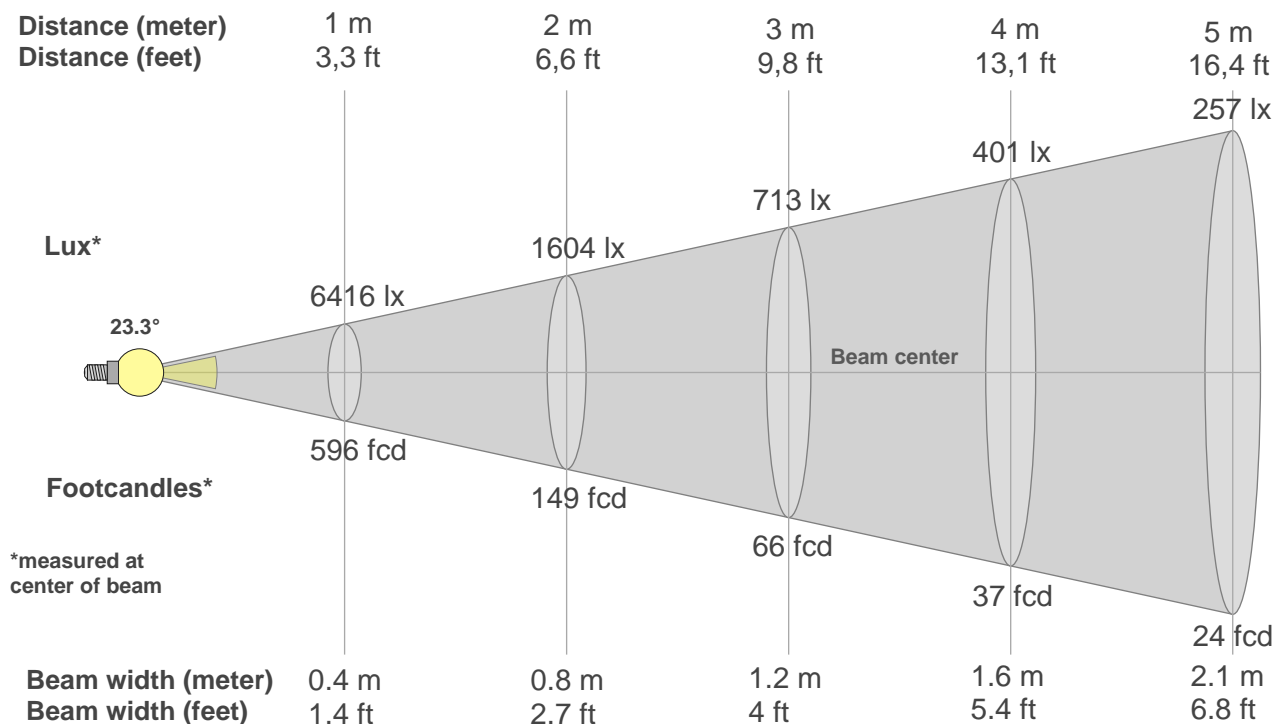
Fidelity index Rf

Rg 98.3

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-3%	12%
4	85	4%	10%
5	89	7%	5%
6	90	6%	-3%
7	83	1%	-11%
8	91	-3%	-5%
9	89	-6%	-2%
10	87	-6%	5%
11	83	-3%	11%
12	85	5%	5%
13	89	6%	-4%
14	83	6%	-12%
15	83	0%	-11%
16	81	-7%	-14%





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
6416lx	1604lx	713lx	401lx	257lx	178lx	131lx	100lx	79lx	64lx	53lx	45lx	38lx	33lx	29lx	25lx	22lx	20lx	18lx	16lx
596.1fcd	149fcd	66.2fcd	37.3fcd	23.8fcd	16.6fcd	12.2fcd	9.3fcd	7.4fcd	6fcd	4.9fcd	4.1fcd	3.5fcd	3fcd	2.6fcd	2.3fcd	2.1fcd	1.8fcd	1.7fcd	1.5fcd

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°
6416	6274	5896	5319	4580	3744	2950	2261	1694	1240	887	616	410	258	150	83	54	37	25	16
100%	98%	92%	83%	71%	58%	46%	35%	26%	19%	14%	10%	6%	4%	2%	1%	1%	1%	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°
6416	6304	5937	5339	4645	3909	3181	2497	1920	1437	1035	719	489	316	198	118	67	36	19	14
100%	98%	93%	83%	72%	61%	50%	39%	30%	22%	16%	11%	8%	5%	3%	2%	1%	1%	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°
6416	6288	5867	5273	4547	3749	2957	2268	1718	1276	914	614	378	222	118	58	28	16	11	8
100%	98%	91%	82%	71%	58%	46%	35%	27%	20%	14%	10%	6%	3%	2%	1%	0%	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°
6416	6273	5896	5329	4636	3894	3181	2518	1924	1440	1065	768	531	349	226	142	88	52	29	16
100%	98%	92%	83%	72%	61%	50%	39%	30%	22%	17%	12%	8%	5%	4%	2%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.3°	44.8°	56.8°	99.8%	99.7%