

Light efficiency:

39 Lumen/Watt

Light quality:

CRI: 83.5

Color temperature:

2897 K

Output: 1382 lm

Peak: 7376 cd

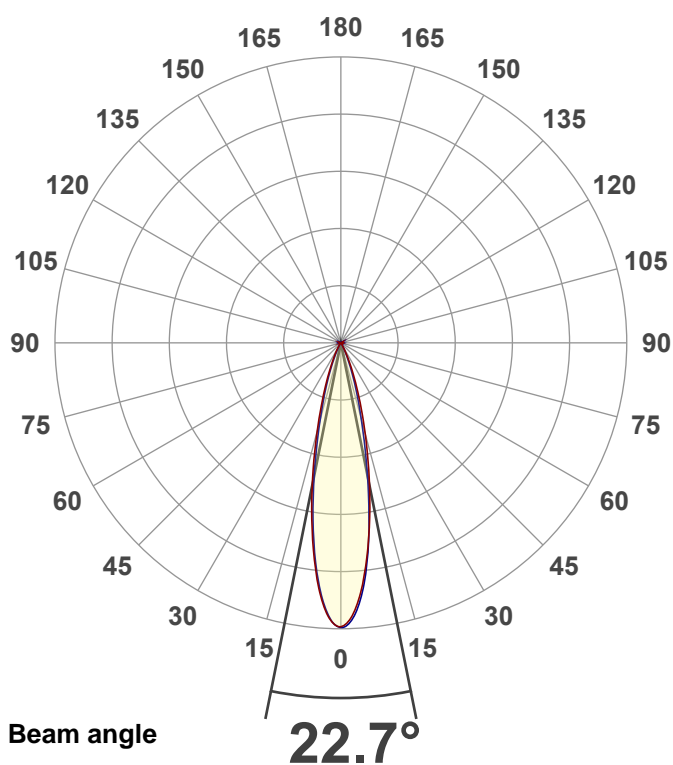
Power: 35.3 W

PF: 0.98



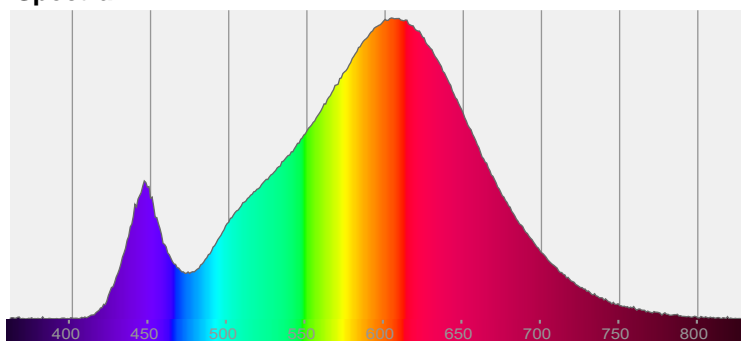
NU4-RAPH-XTM09-20LM-30K-83-20D-NL-WH

Date and time:
1/4/2022 11:26:30 AM

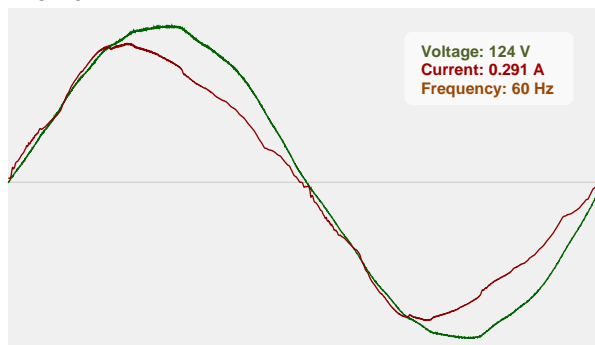


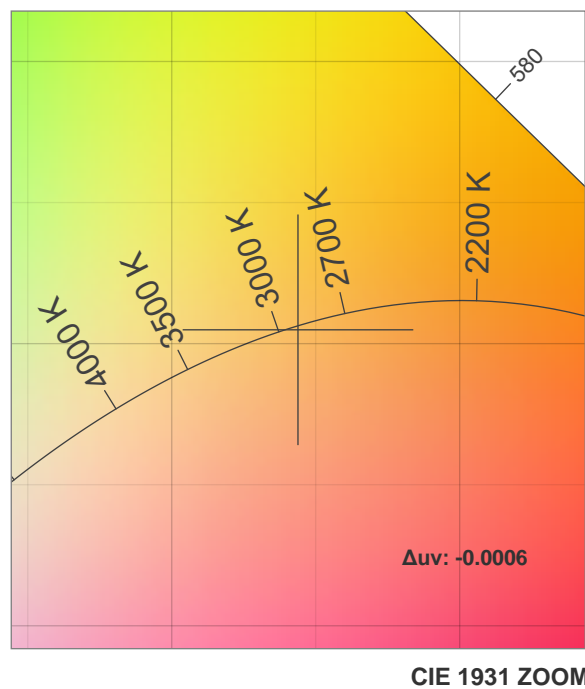
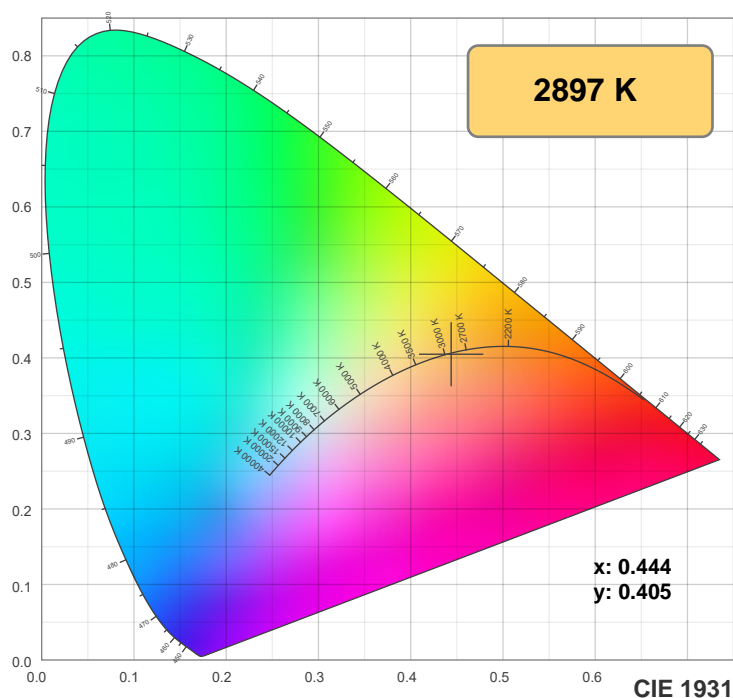
CIE 1931
x: 0.444
y: 0.405

Spectra

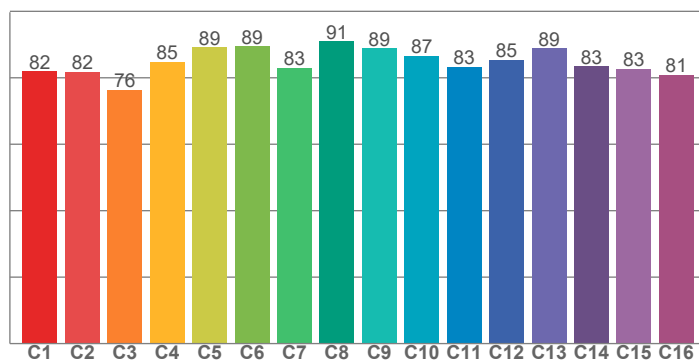


Power

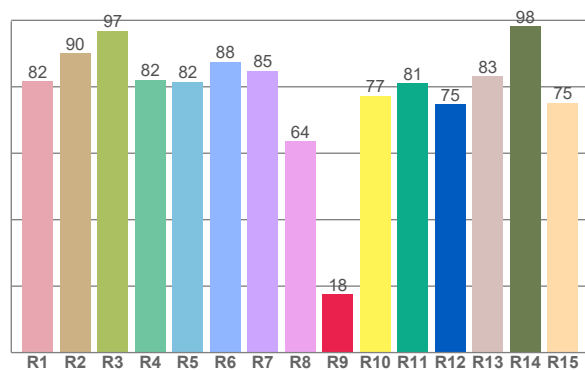




TM30: 84.7



CRI: 83.5 (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
81.6	90.0	96.8	82.2	81.5	87.5	84.8	63.6	17.6	77.3	81.1	74.8	83.3	98.2	75.2

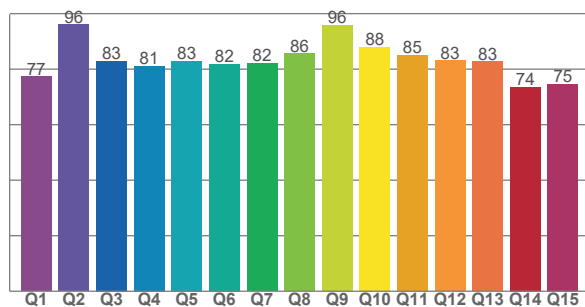
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.9	81.8	76.3	84.8	89.1	89.5	82.9	91.0	88.8	86.6	83.2	85.4	88.9	83.4	82.7	80.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.3	96.1	83.0	81.2	82.9	81.9	82.1	85.6	95.9	88.0	85.0	83.1	82.7	73.6	74.6

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
2897 K	83.5	17.6	84.7	98.4	82.3	0.444	0.405	0.255	0.348	-0.0006

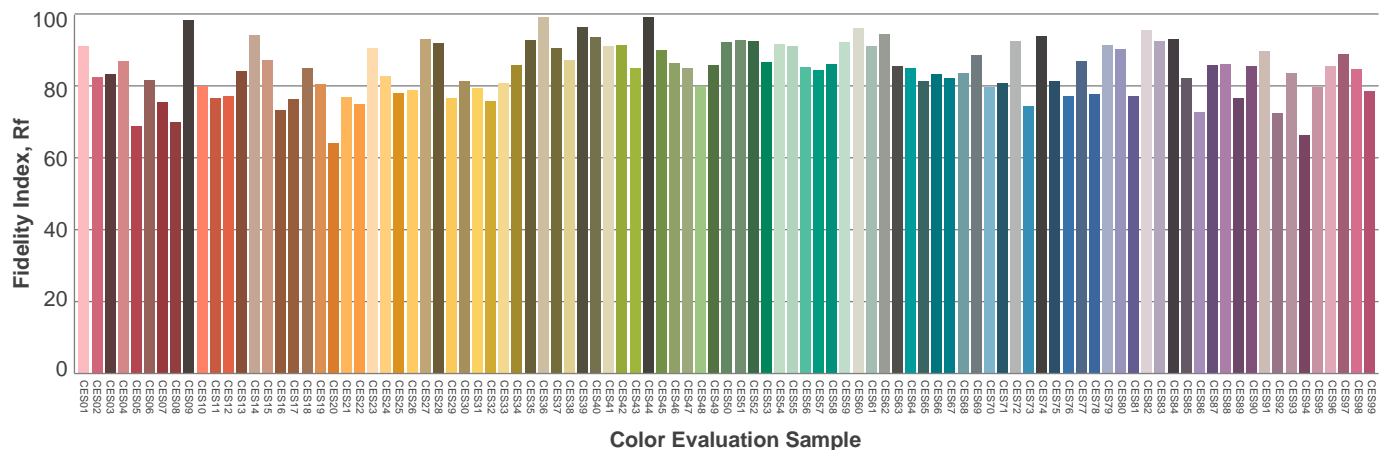
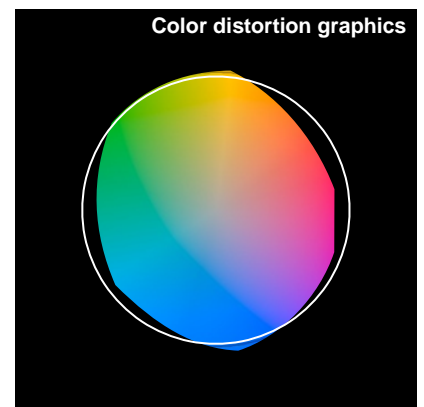
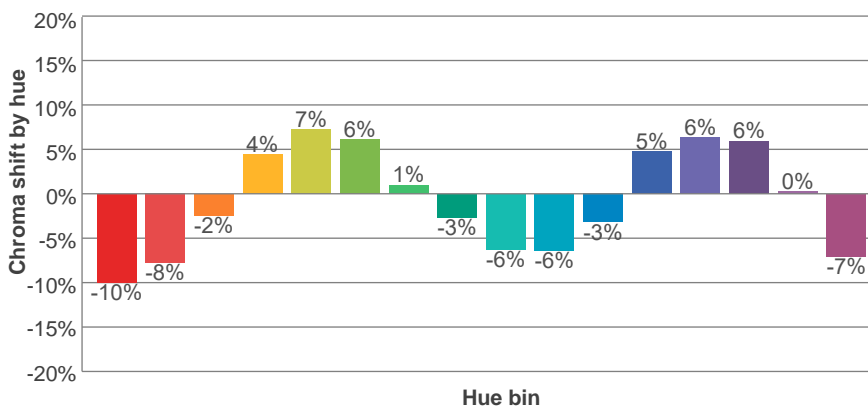
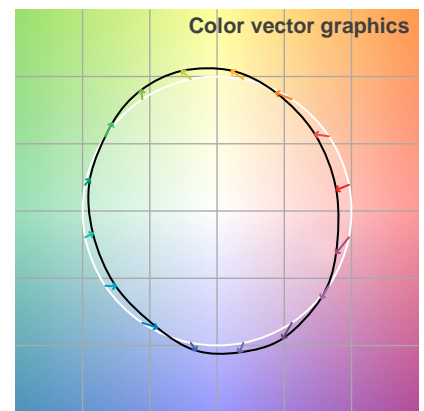
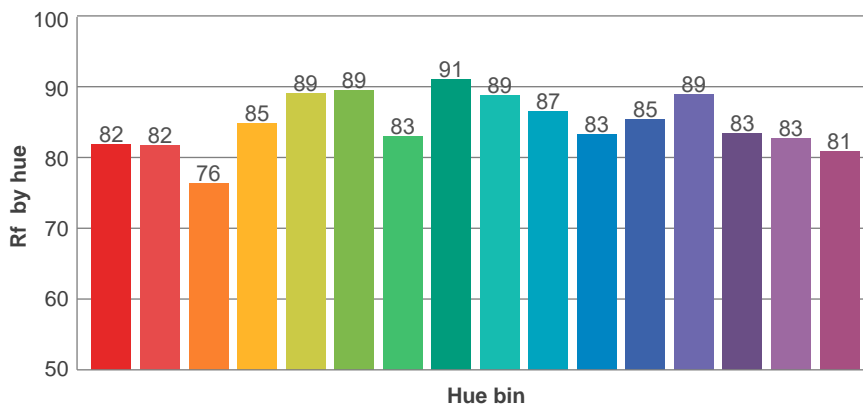
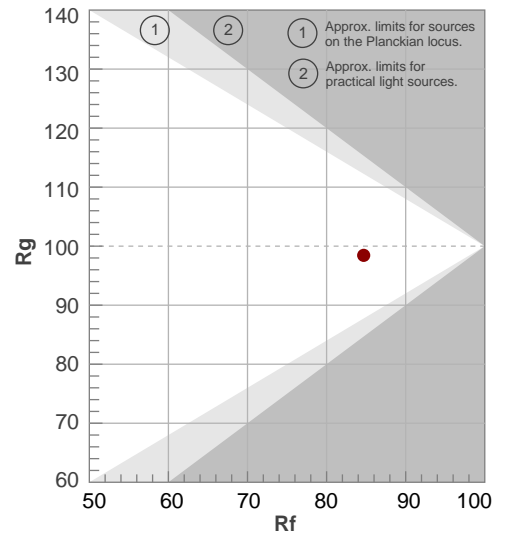
Rf 84.7

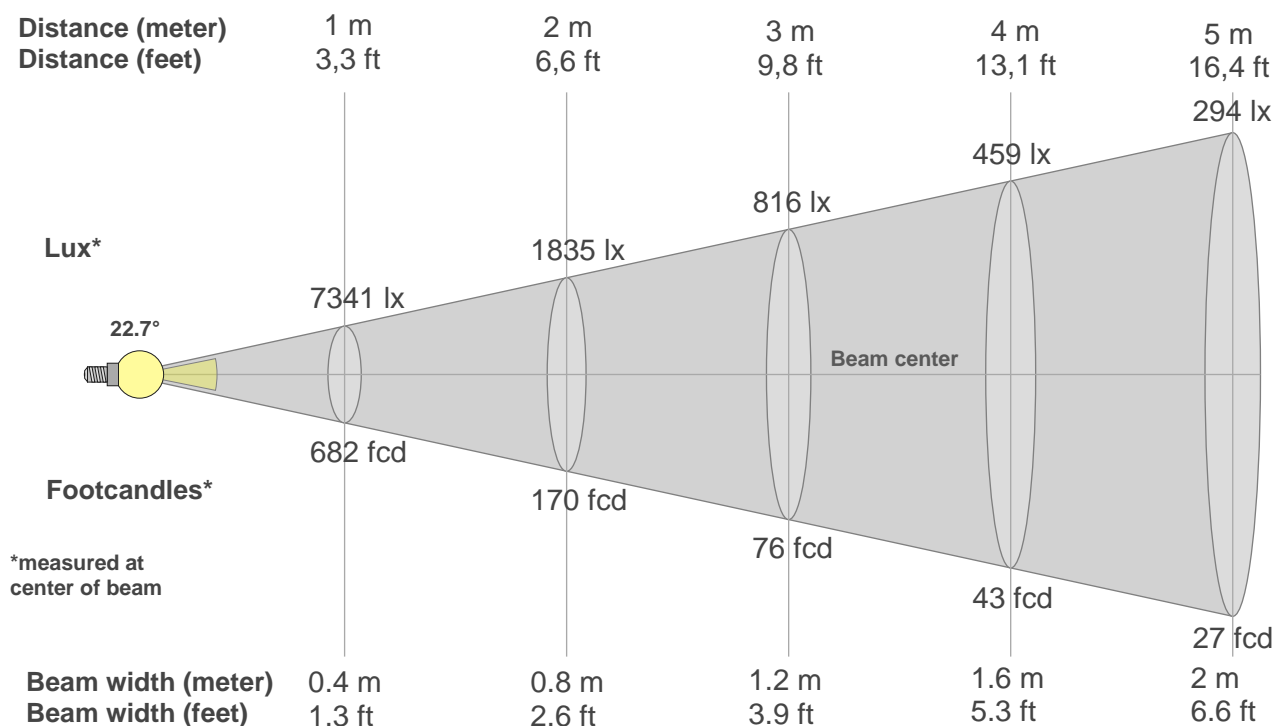
Fidelity index Rf

Rg 98.4

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	12%
4	85	4%	10%
5	89	7%	5%
6	89	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
7341lx	1835lx	816lx	459lx	294lx	204lx	150lx	115lx	91lx	73lx	61lx	51lx	43lx	37lx	33lx	29lx	25lx	23lx	20lx	18lx
682fcd	170.5fcd	75.8fcd	42.6fcd	27.3fcd	18.9fcd	13.9fcd	10.7fcd	8.4fcd	6.8fcd	5.6fcd	4.7fcd	4fcd	3.5fcd	3fcd	2.7fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd

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°
7341	7153	6643	5949	5159	4338	3528	2783	2149	1609	1167	815	539	328	182	92	45	24	12	8
100%	97%	90%	81%	70%	59%	48%	38%	29%	22%	16%	11%	7%	4%	2%	1%	1%	0%	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°
7341	7188	6751	6067	5180	4167	3224	2417	1770	1275	879	589	372	215	110	48	24	18	12	8
100%	98%	92%	83%	71%	57%	44%	33%	24%	17%	12%	8%	5%	3%	1%	1%	0%	0%	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°
7341	7177	6725	6048	5229	4364	3513	2743	2082	1543	1122	786	554	393	272	177	103	58	38	24
100%	98%	92%	82%	71%	59%	48%	37%	28%	21%	15%	11%	8%	5%	4%	2%	1%	1%	1%	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°
7341	7183	6694	5951	5080	4155	3251	2435	1790	1315	928	621	387	217	116	62	38	27	19	13
100%	98%	91%	81%	69%	57%	44%	33%	24%	18%	13%	8%	5%	3%	2%	1%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.7°	43.6°	55.5°	99.7%	99.6%