

Light efficiency:

40 Lumen/Watt

Light quality:

CRI: 83.6

Color temperature:

2905 K

Output: 1413 lm

Peak: 5873 cd

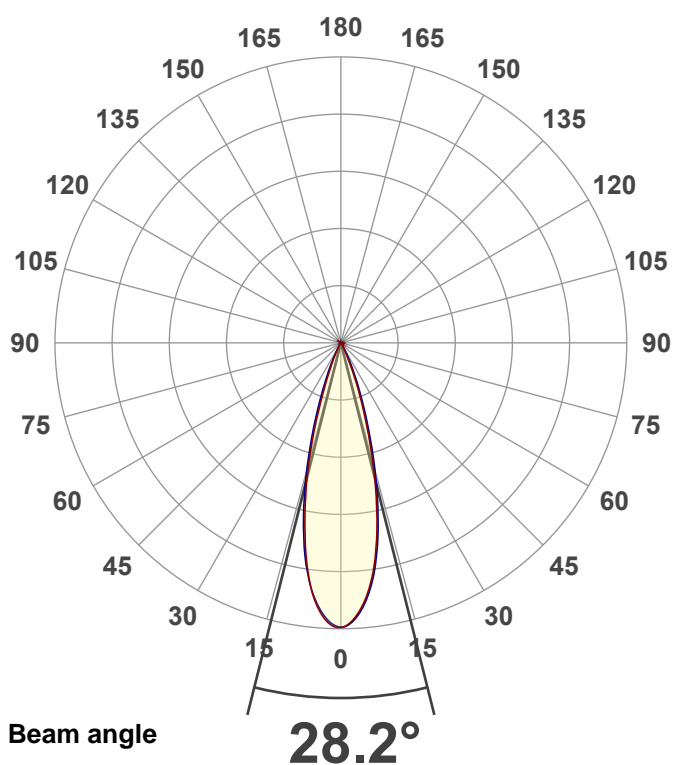
Power: 35.7 W

PF: 0.98



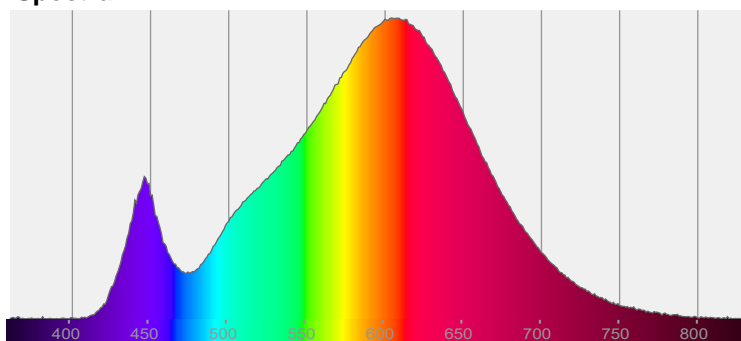
NU4-RAPH-XTM09-20LM-30K-83-30D-NL-WH

Date and time:
1/4/2022 10:57:26 AM

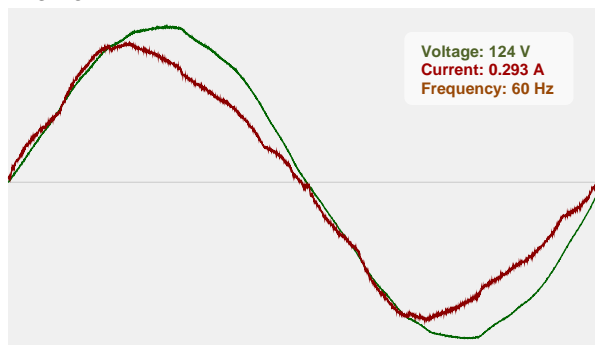


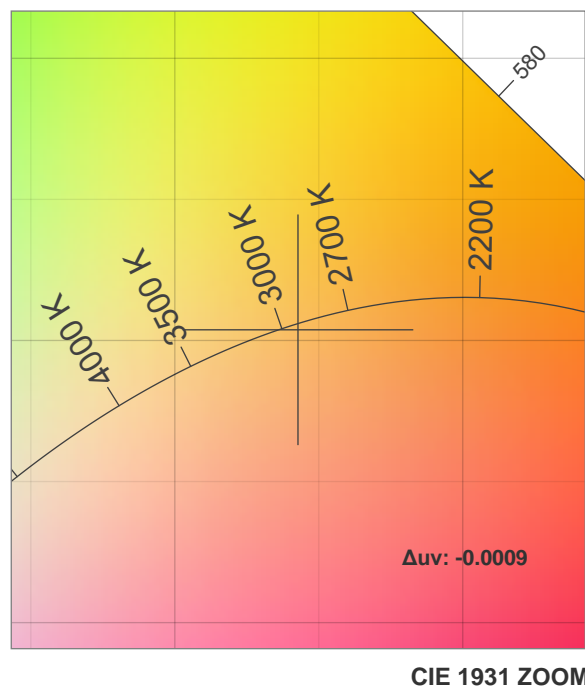
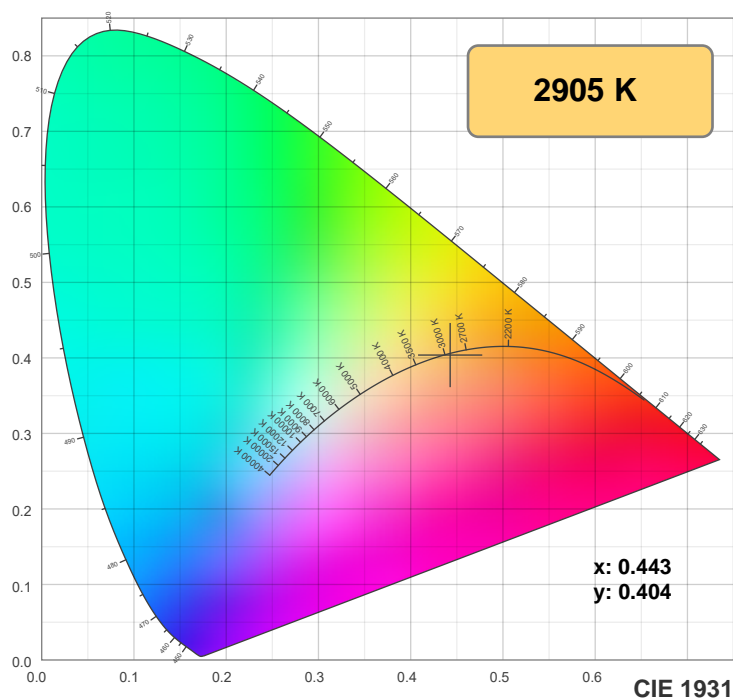
CIE 1931
x: 0.443
y: 0.404

Spectra

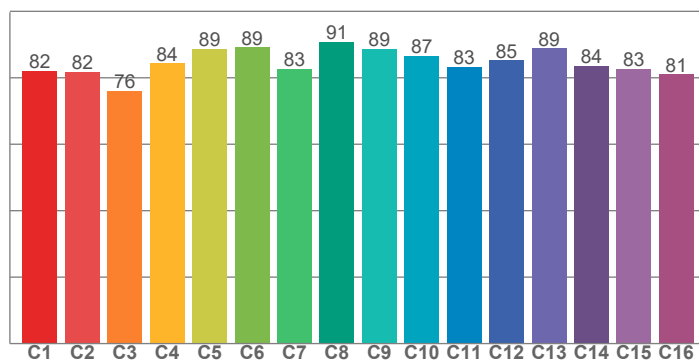


Power

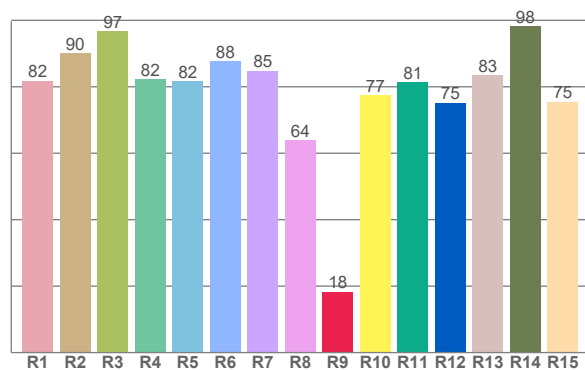




TM30: 84.6



CRI: 83.6 (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
81.8	90.1	96.7	82.3	81.8	87.6	84.8	63.9	18.3	77.5	81.3	75.2	83.4	98.2	75.5

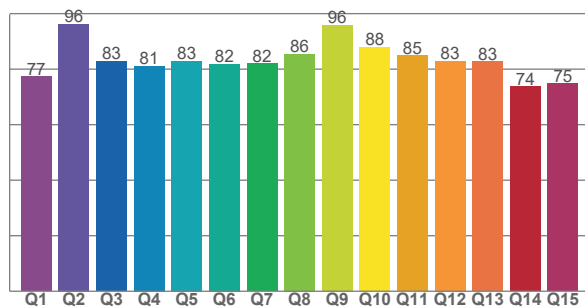
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.1	81.8	76.1	84.4	88.8	89.1	82.6	90.8	88.8	86.6	83.2	85.2	88.9	83.5	82.7	81.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.3	96.2	82.8	81.1	83.0	81.8	82.0	85.5	95.9	87.8	84.9	82.9	82.7	73.8	74.8

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
2905 K	83.6	18.3	84.6	98.7	82.3	0.443	0.404	0.254	0.348	-0.0009

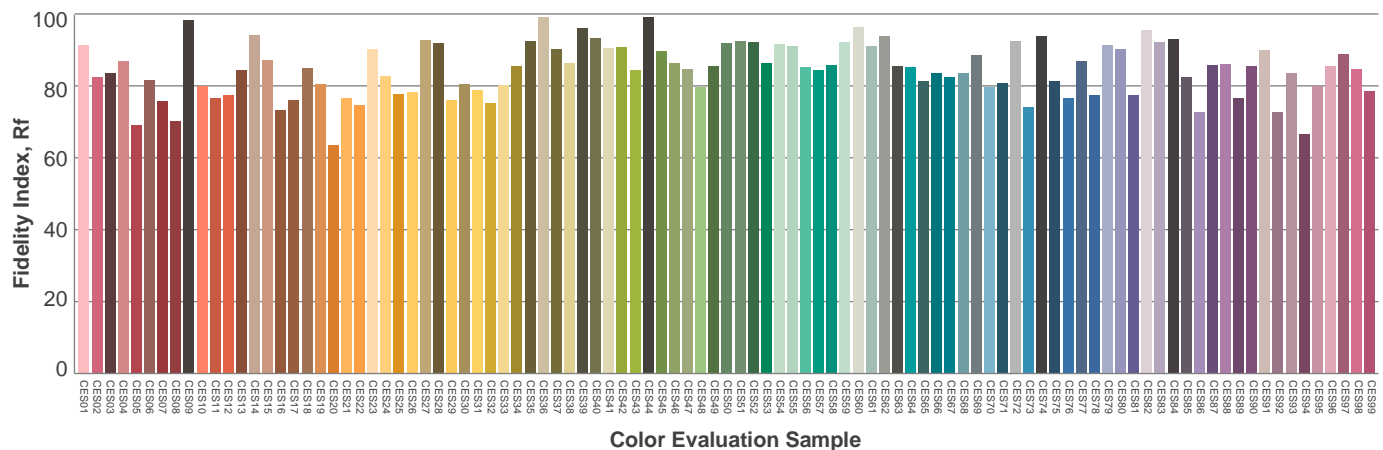
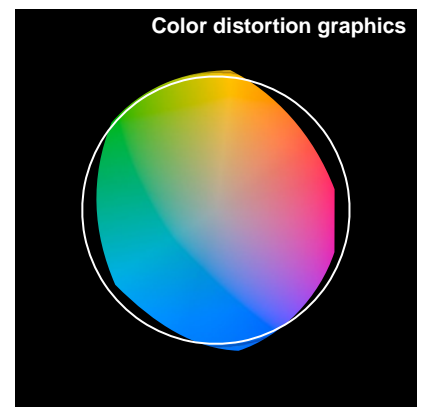
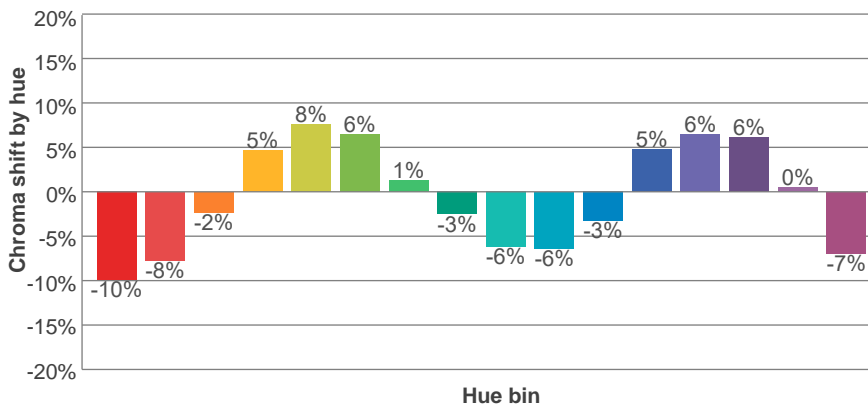
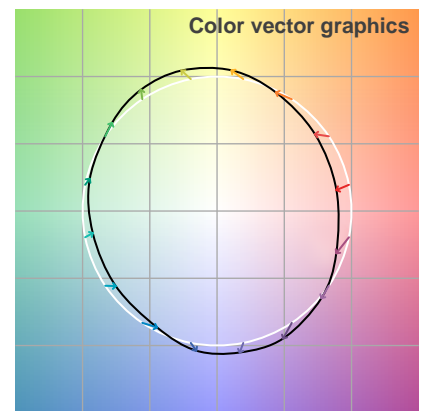
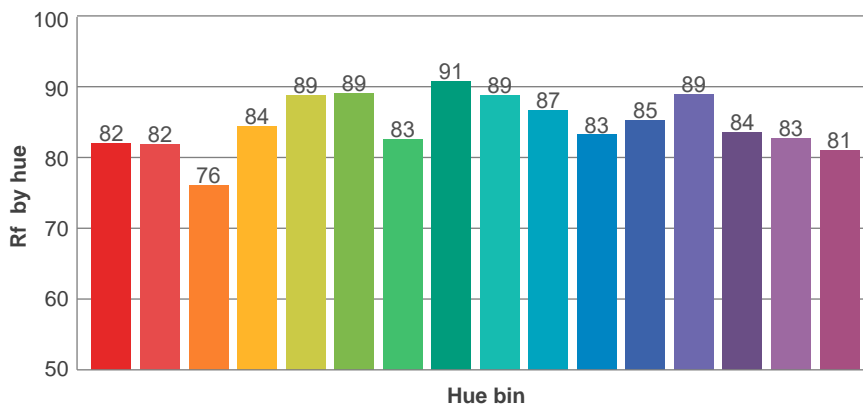
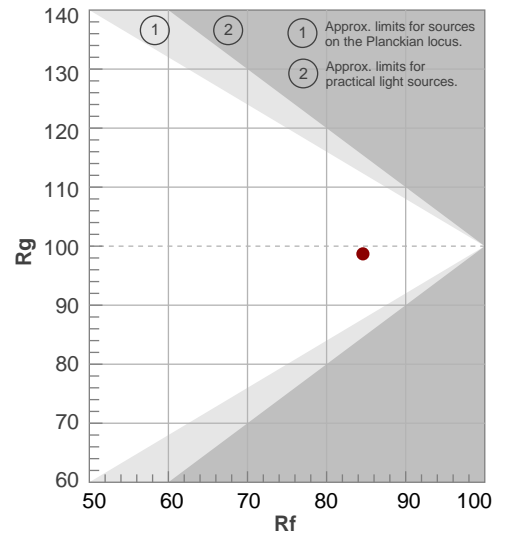
Rf 84.6

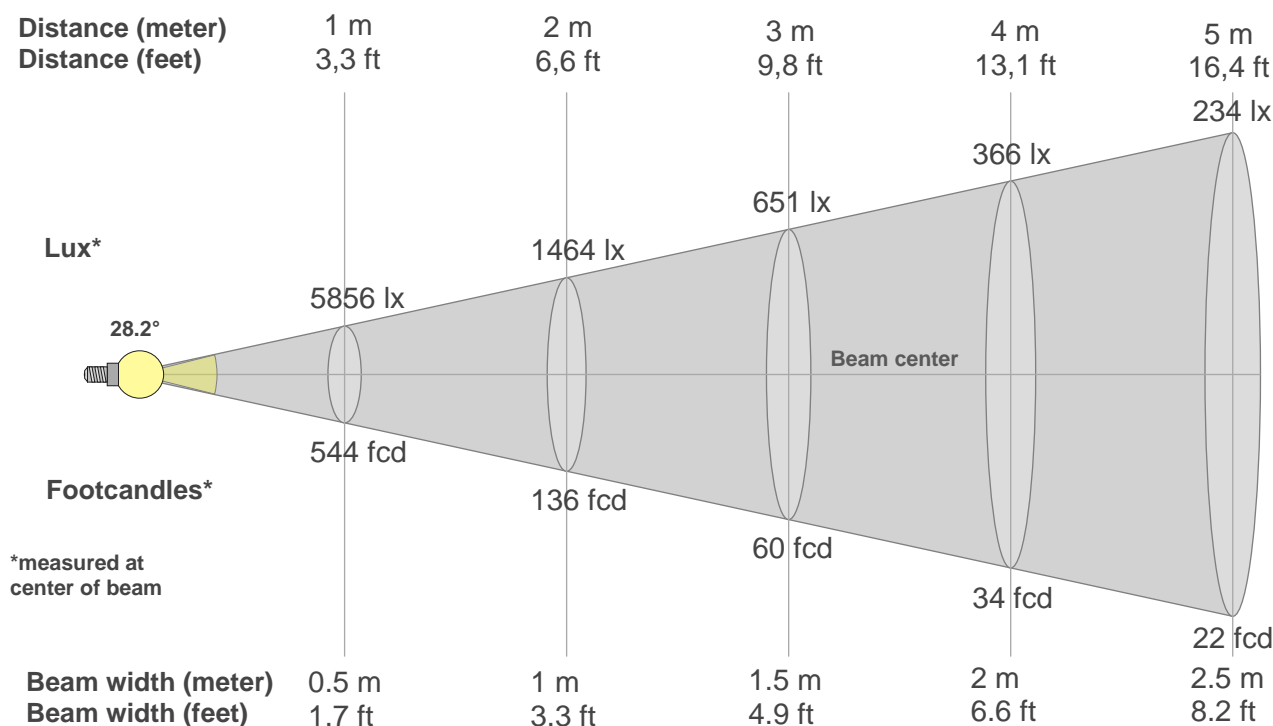
Fidelity index Rf

Rg 98.7

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	13%
4	84	5%	10%
5	89	8%	6%
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	84	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
5856lx	1464lx	651lx	366lx	234lx	163lx	120lx	92lx	72lx	59lx	48lx	41lx	35lx	30lx	26lx	23lx	20lx	18lx	16lx	15lx
544.1fcd	136fcd	60.5fcd	34fcd	21.8fcd	15.1fcd	11.1fcd	8.5fcd	6.7fcd	5.4fcd	4.5fcd	3.8fcd	3.2fcd	2.8fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd

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°
5856	5755	5535	5218	4769	4207	3573	2896	2210	1617	1128	716	384	198	109	57	29	17	11	11
100%	98%	95%	89%	81%	72%	61%	49%	38%	28%	19%	12%	7%	3%	2%	1%	0%	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°
5856	5775	5573	5267	4853	4310	3699	3055	2411	1823	1341	945	631	393	235	124	63	40	28	18
100%	99%	95%	90%	83%	74%	63%	52%	41%	31%	23%	16%	11%	7%	4%	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°
5856	5823	5629	5286	4809	4222	3562	2897	2208	1558	1008	617	393	231	121	55	21	15	10	7
100%	99%	96%	90%	82%	72%	61%	49%	38%	27%	17%	11%	7%	4%	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°
5856	5794	5575	5259	4844	4329	3713	3056	2404	1800	1275	860	580	350	181	87	54	34	21	12
100%	99%	95%	90%	83%	74%	63%	52%	41%	31%	22%	15%	10%	6%	3%	1%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.2°	46.7°	56.1°	99.6%	99.5%