

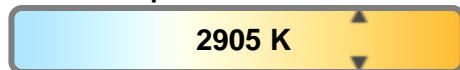
Light efficiency:



Light quality:



Color temperature:



Output: 1083 lm

Peak: 4413 cd

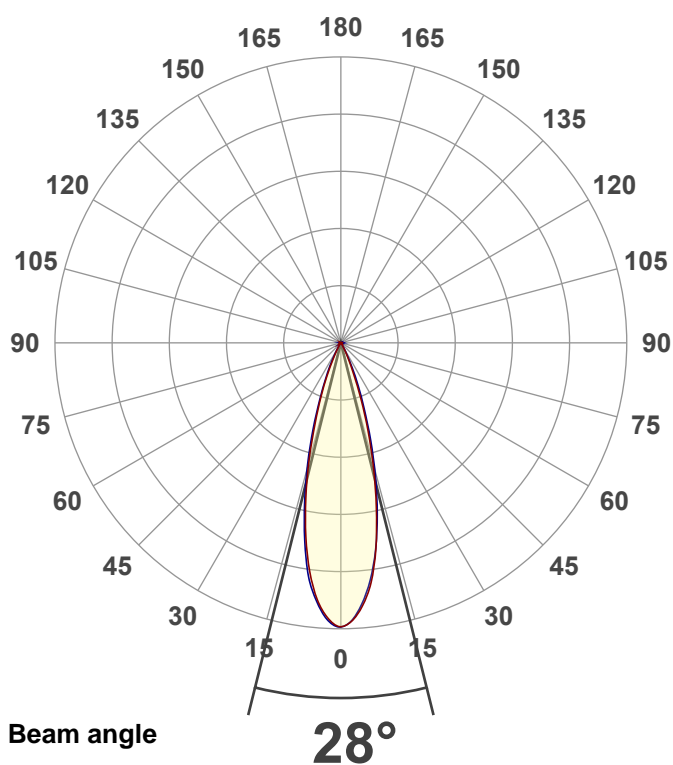
Power: 35.0 W

PF: 0.98



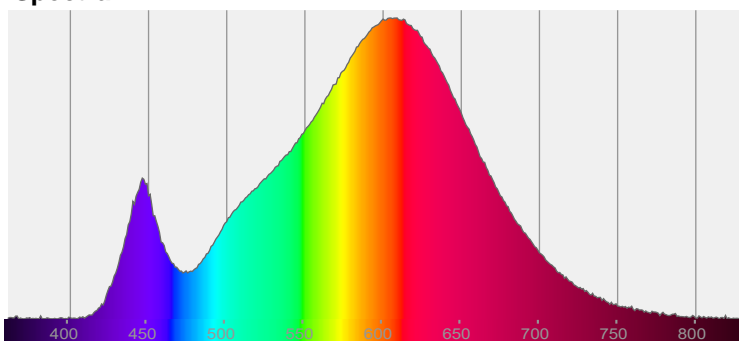
NU4-RAPH-XTM09-20LM-30K-83-30D-HCL-WH

Date and time:
1/5/2022 9:25:33 AM

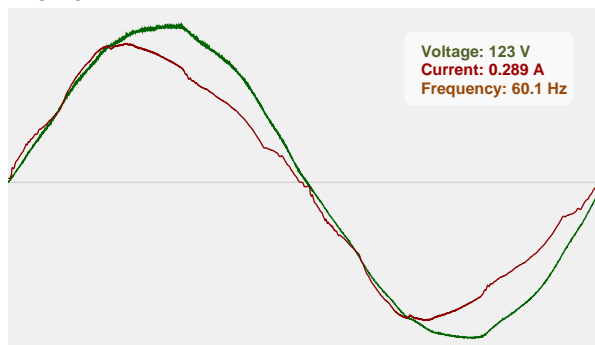


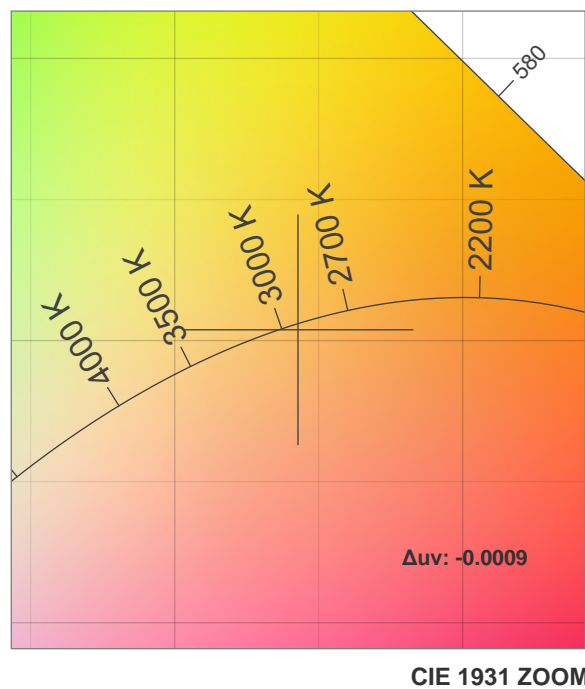
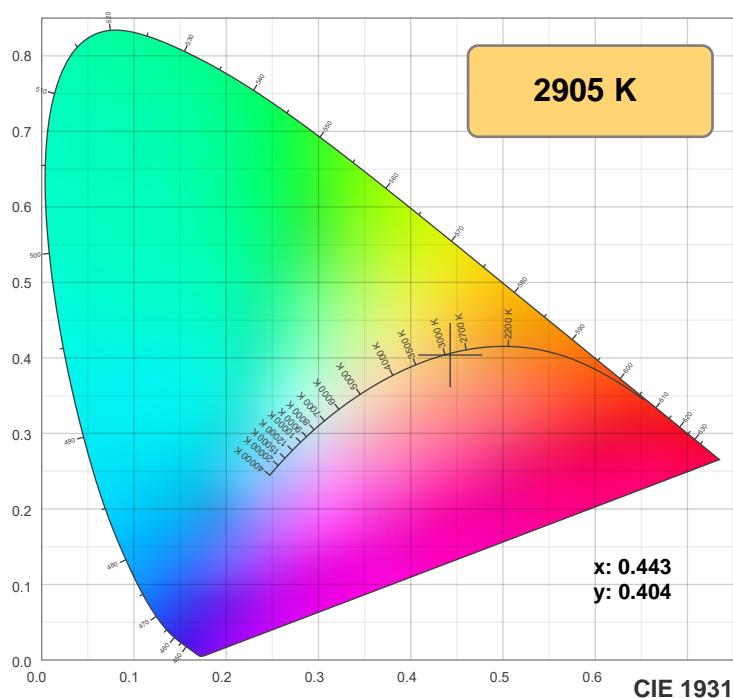
CIE 1931
x: 0.443
y: 0.404

Spectra

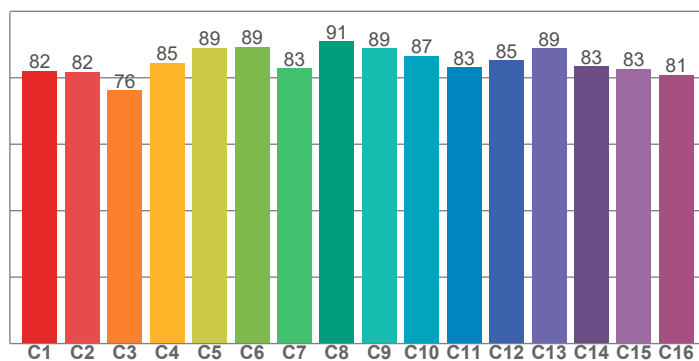


Power

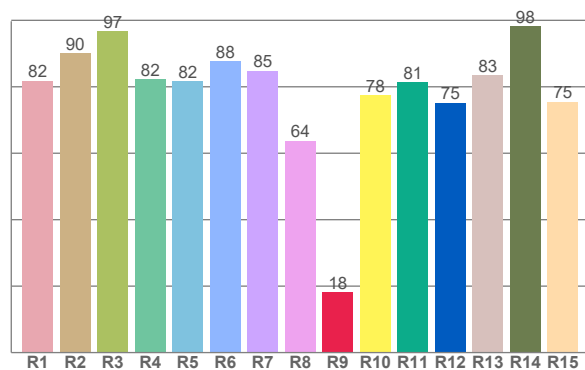




TM30: 84.6



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	96.8	82.3	81.7	87.7	84.8	63.8	18.2	77.6	81.3	75.2	83.4	98.2	75.5

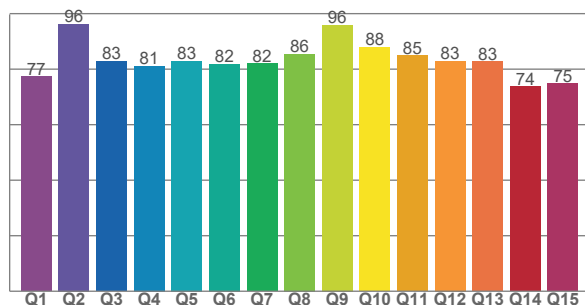
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.0	81.8	76.1	84.6	88.9	89.2	82.8	90.9	88.8	86.6	83.2	85.3	88.9	83.5	82.8	80.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.4	96.2	82.8	81.1	83.0	81.9	82.0	85.5	95.9	87.9	84.9	82.9	82.7	73.7	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	18.2	84.6	98.6	82.3	0.443	0.404	0.254	0.348	-0.0009

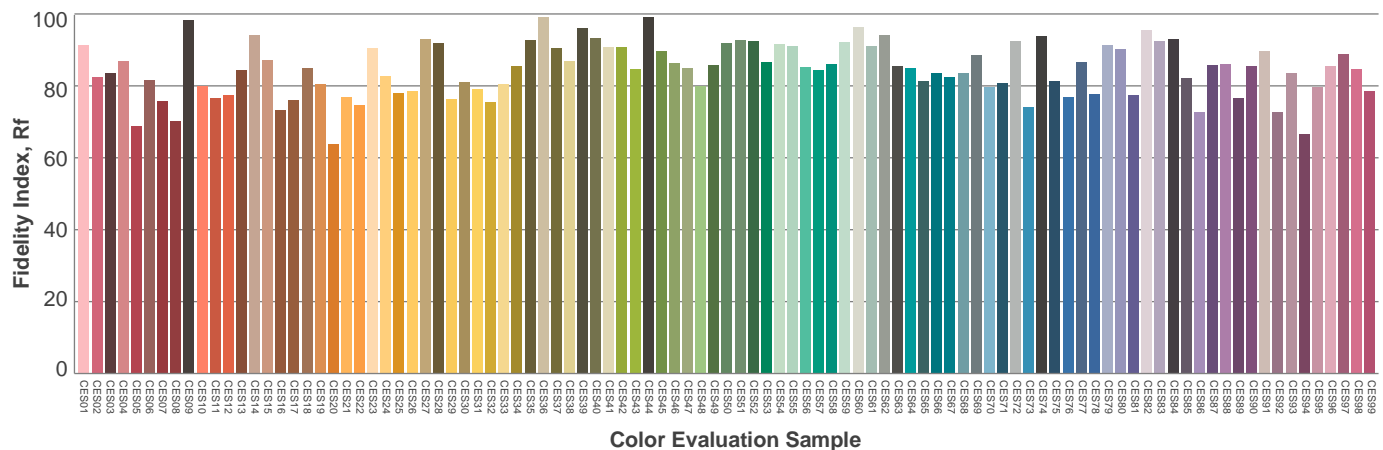
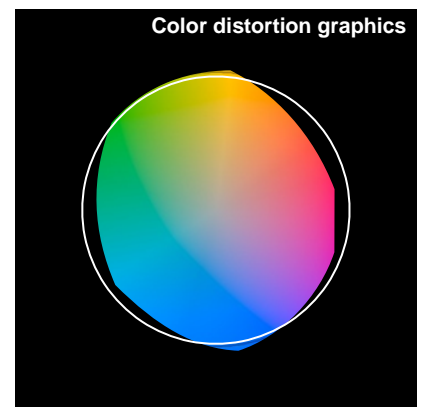
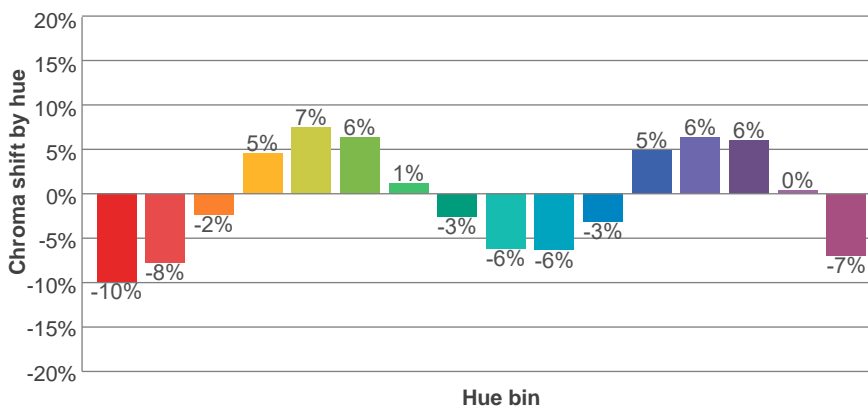
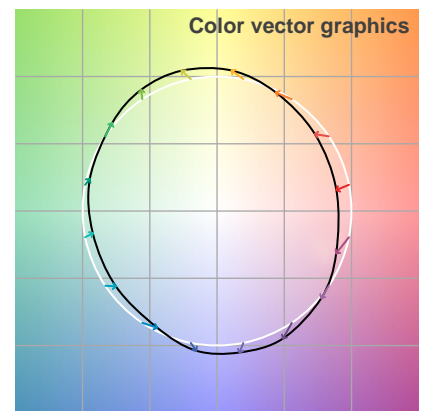
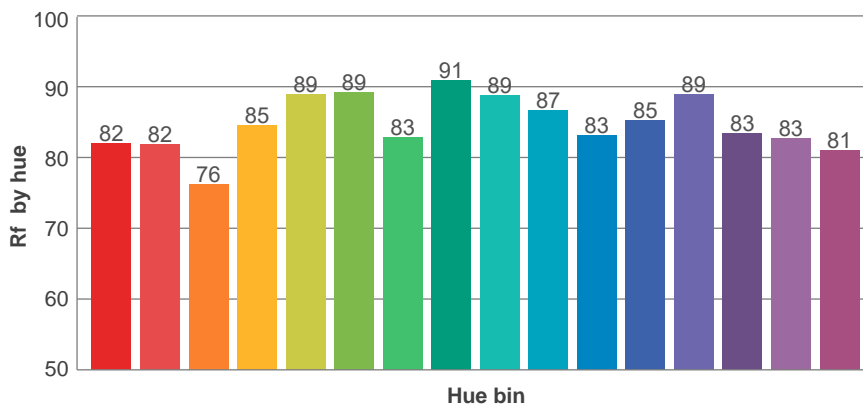
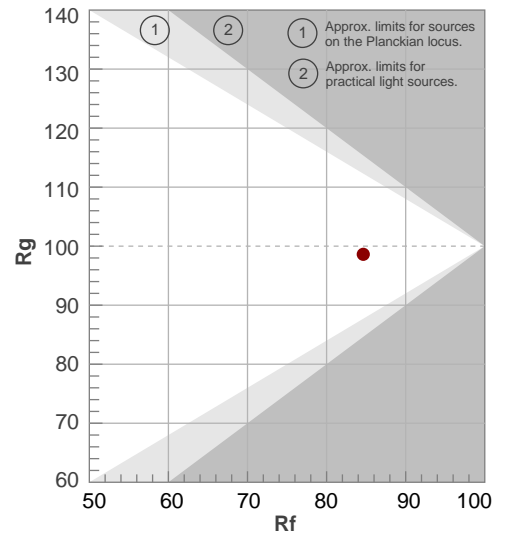
Rf 84.6

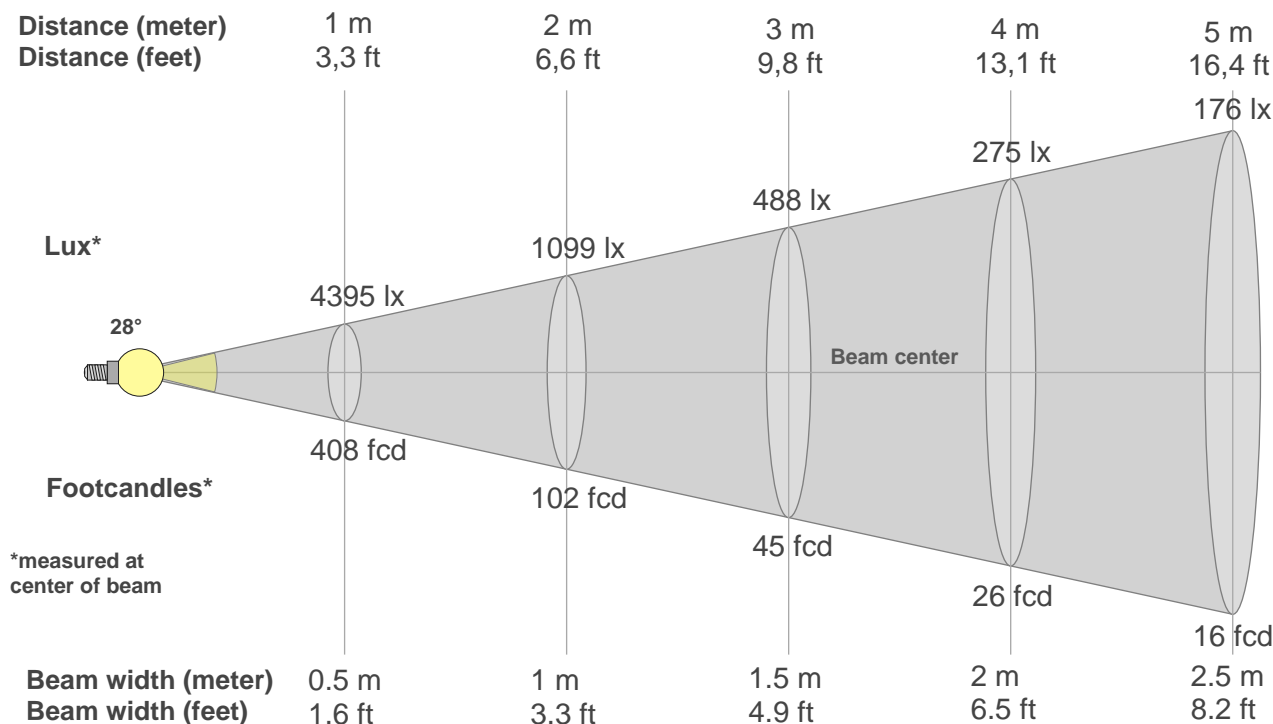
Fidelity index Rf

Rg 98.6

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	13%
4	85	5%	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
4395lx	1099lx	488lx	275lx	176lx	122lx	90lx	69lx	54lx	44lx	36lx	31lx	26lx	22lx	20lx	17lx	15lx	14lx	12lx	11lx
408.3fcd	102.1fcd	45.4fcd	25.5fcd	16.3fcd	11.3fcd	8.3fcd	6.4fcd	5fcd	4.1fcd	3.4fcd	2.8fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	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°
4395	4330	4159	3914	3582	3156	2654	2164	1696	1263	879	555	360	224	129	66	32	17	10	6
100%	99%	95%	89%	82%	72%	60%	49%	39%	29%	20%	13%	8%	5%	3%	2%	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°
4395	4327	4126	3861	3536	3152	2717	2260	1811	1387	1013	719	487	297	166	91	49	27	15	9
100%	98%	94%	88%	80%	72%	62%	51%	41%	32%	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°
4395	4311	4136	3875	3529	3106	2638	2165	1701	1265	929	654	423	251	146	82	44	22	12	7
100%	98%	94%	88%	80%	71%	60%	49%	39%	29%	21%	15%	10%	6%	3%	2%	1%	1%	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°
4395	4336	4175	3935	3635	3197	2729	2261	1807	1379	1010	730	517	347	202	109	63	37	22	14
100%	99%	95%	90%	83%	73%	62%	51%	41%	31%	23%	17%	12%	8%	5%	2%	1%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28°	47.9°	58.4°	99.7%	99.6%