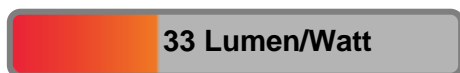


Light efficiency:



Light quality:



Color temperature:



Output: 1182 lm

Peak: 7439 cd

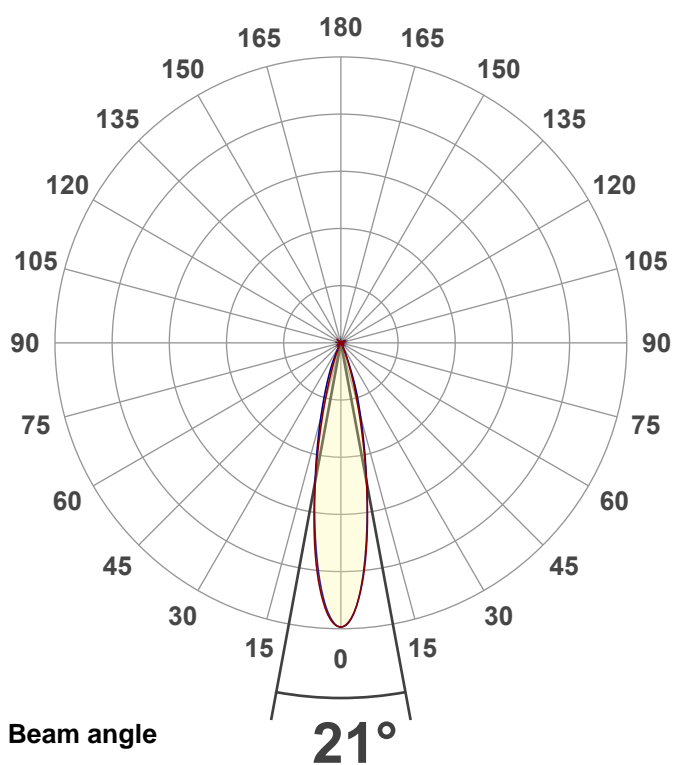
Power: 35.5 W

PF: 0.98



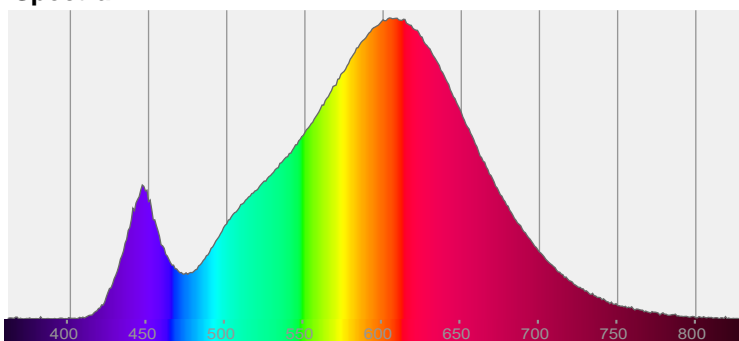
NU4-RAPH-XTM09-20LM-30K-83-15D-HET-WH

Date and time:
1/4/2022 3:13:44 PM

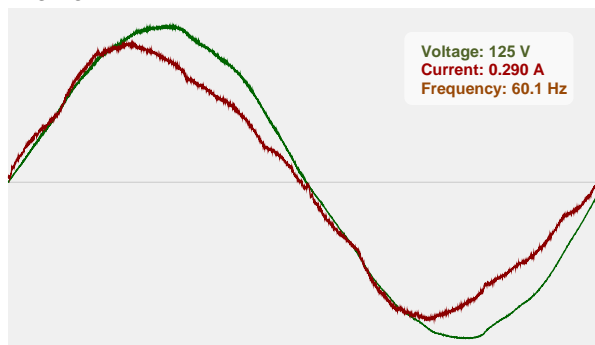


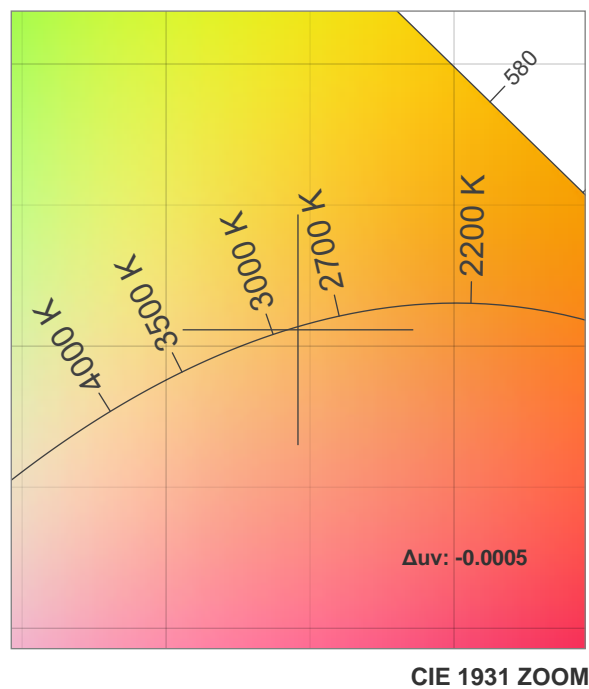
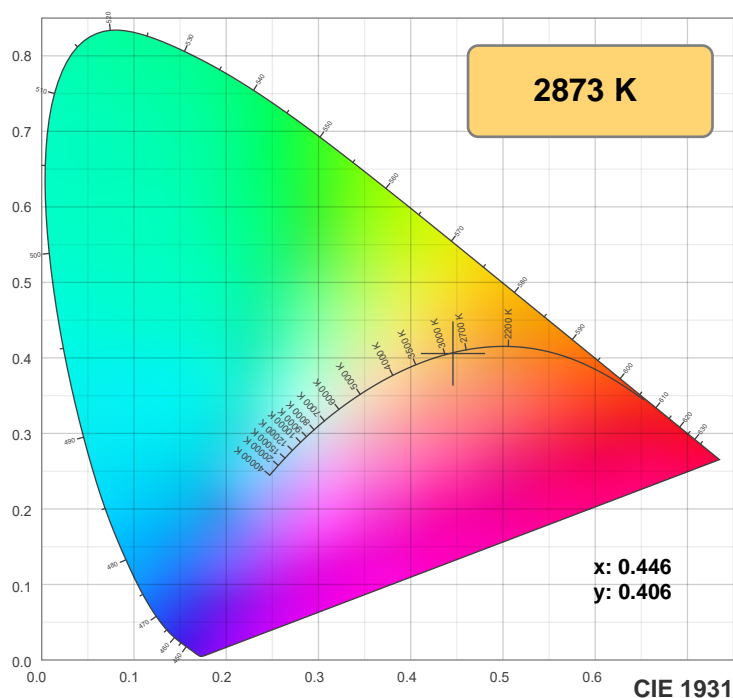
CIE 1931
x: 0.446
y: 0.406

Spectra

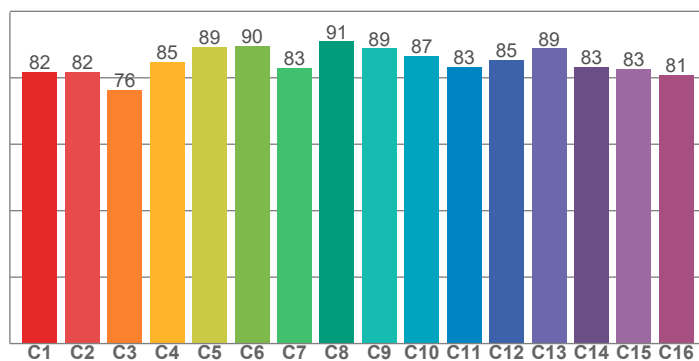


Power

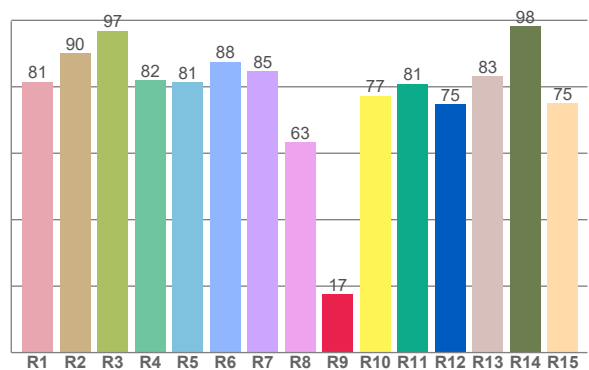




TM30: 84.7



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
81.5	90.0	96.9	82.0	81.4	87.5	84.8	63.4	17.5	77.3	80.9	74.7	83.2	98.3	75.1

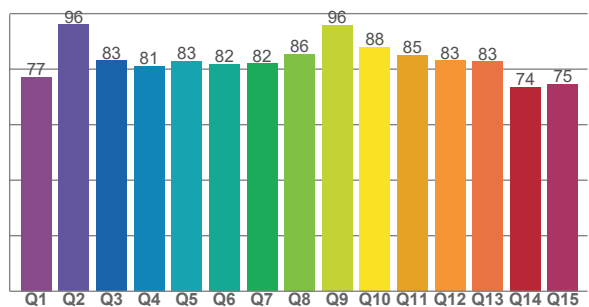
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.9	81.8	76.3	84.9	89.2	89.5	82.9	91.0	88.8	86.5	83.3	85.4	88.8	83.3	82.7	80.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.2	96.0	83.1	81.1	82.9	81.8	82.0	85.5	95.8	88.1	85.1	83.1	82.7	73.5	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
2873 K	83.4	17.5	84.7	98.4	82.3	0.446	0.406	0.256	0.349	-0.0005

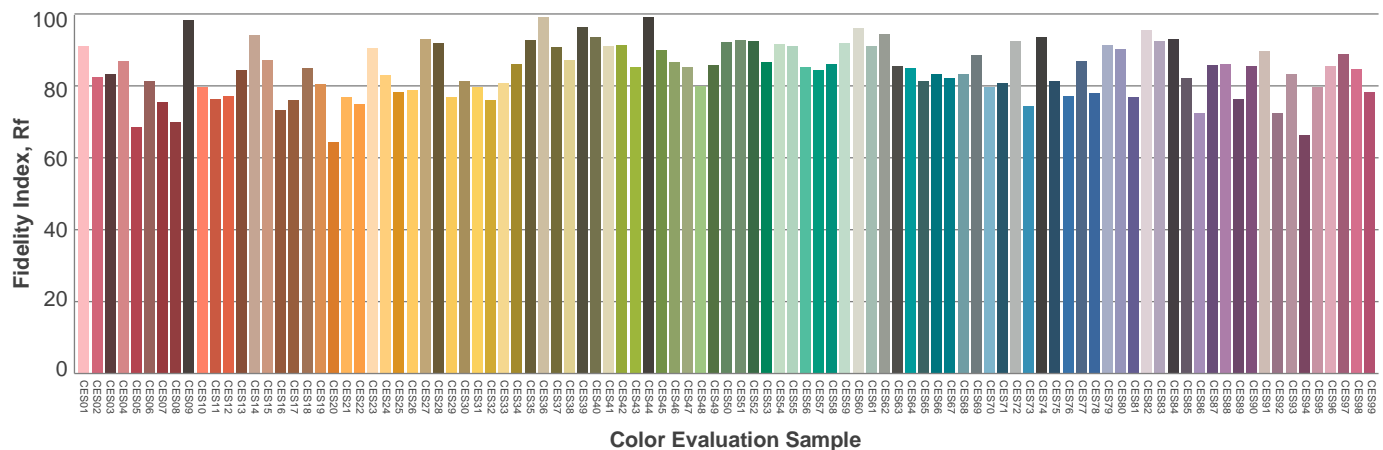
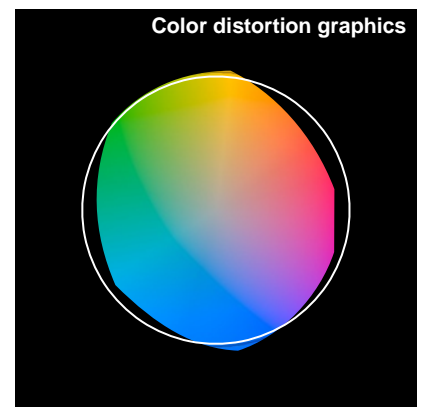
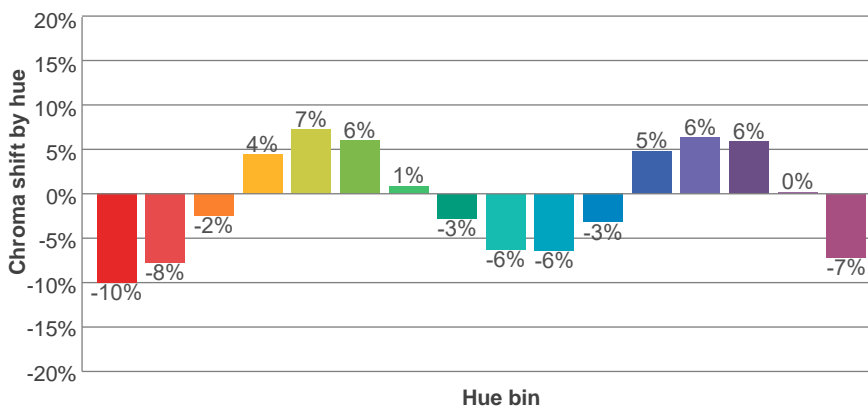
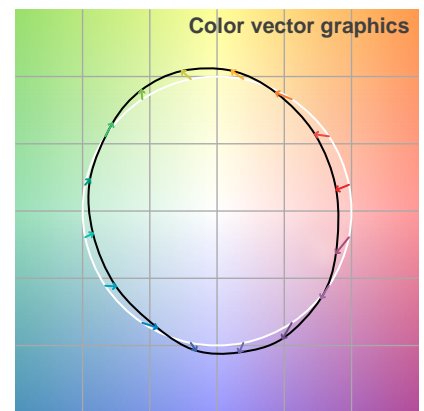
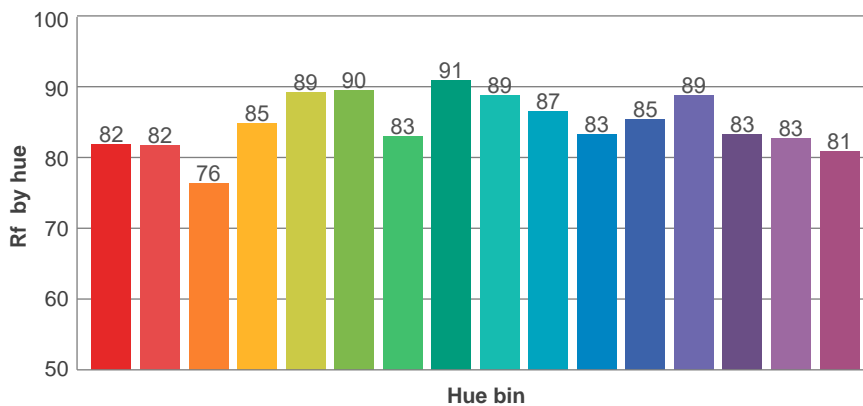
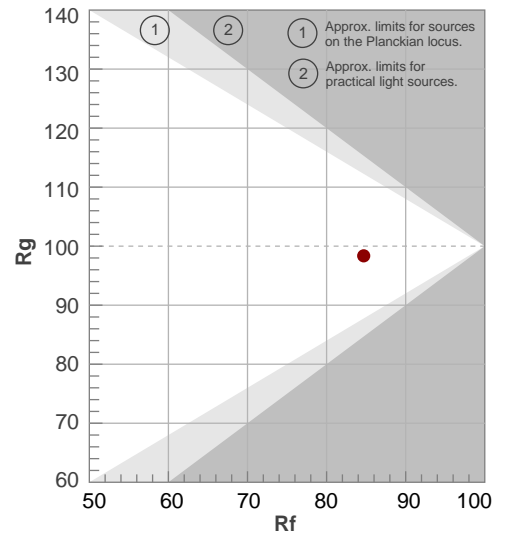
Rf 84.7

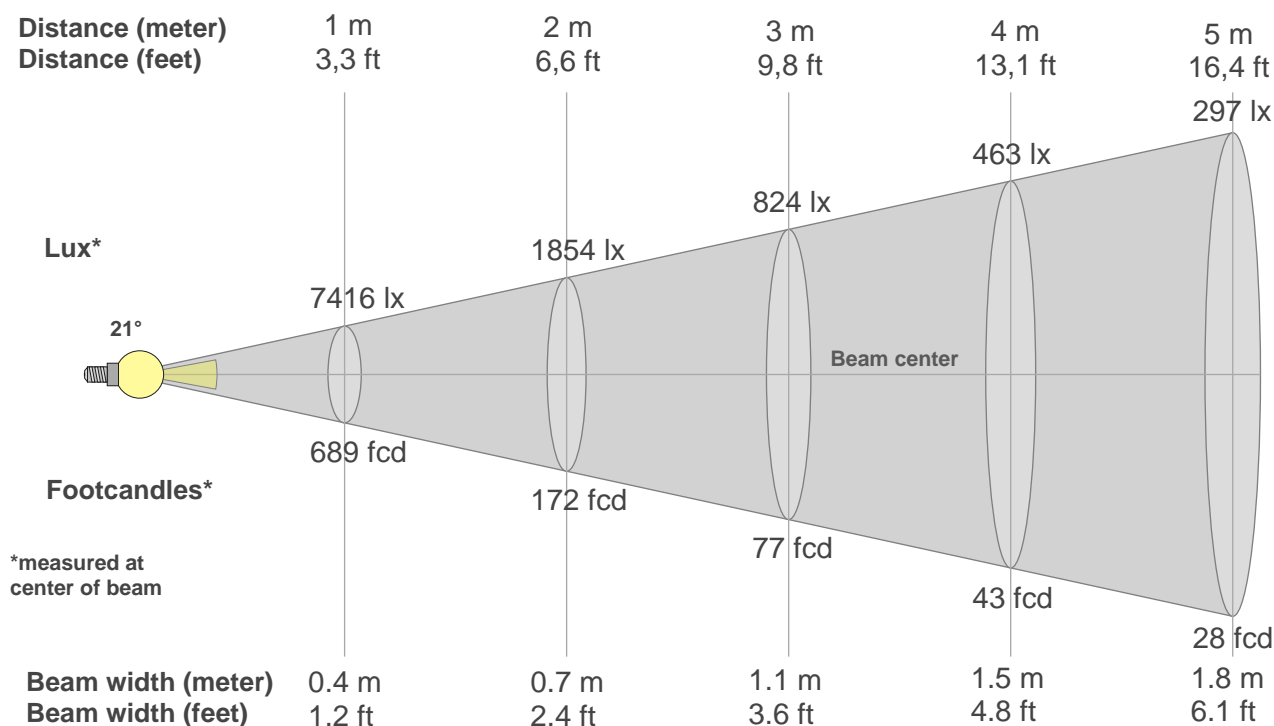
Fidelity index Rf

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	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%	-13%





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
7416lx	1854lx	824lx	463lx	297lx	206lx	151lx	116lx	92lx	74lx	61lx	51lx	44lx	38lx	33lx	29lx	26lx	23lx	21lx	19lx
688.9fc	172.2fc	76.5fc	43.1fc	27.6fc	19.1fc	14.1fc	10.8fc	8.5fc	6.9fc	5.7fc	4.8fc	4.1fc	3.5fc	3.1fc	2.7fc	2.4fc	2.1fc	1.9fc	1.7fc

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7416	7360	7219	6993	6690	6327	5911	5446	4952	4435	3916	3406	2929	2492	2101	1751	1449	1190	966	778
100%	99%	97%	94%	90%	85%	80%	73%	67%	60%	53%	46%	39%	34%	28%	24%	20%	16%	13%	10%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7416	7371	7232	6997	6673	6283	5842	5365	4879	4394	3924	3469	3045	2659	2309	1994	1717	1475	1240	1002
100%	99%	98%	94%	90%	85%	79%	72%	66%	59%	53%	47%	41%	36%	31%	27%	23%	20%	17%	14%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7416	7376	7249	7038	6742	6385	5969	5501	4996	4467	3925	3395	2892	2429	2005	1633	1319	1057	841	665
100%	99%	98%	95%	91%	86%	80%	74%	67%	60%	53%	46%	39%	33%	27%	22%	18%	14%	11%	9%

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7416	7364	7210	6969	6644	6255	5813	5344	4864	4386	3918	3475	3066	2686	2342	2031	1753	1509	1292	1102
100%	99%	97%	94%	90%	84%	78%	72%	66%	59%	53%	47%	41%	36%	32%	27%	24%	20%	17%	15%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21°	39.6°	50.4°	99.7%	99.6%