

Light efficiency:



Light quality:



Color temperature:



Output: 1230 lm

Peak: 5166 cd

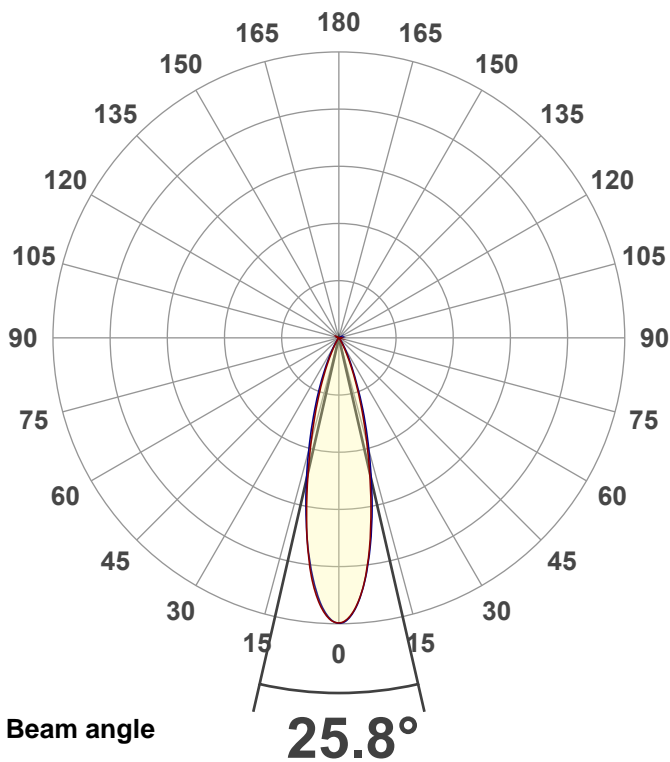
Power: 35.5 W

PF: 0.98



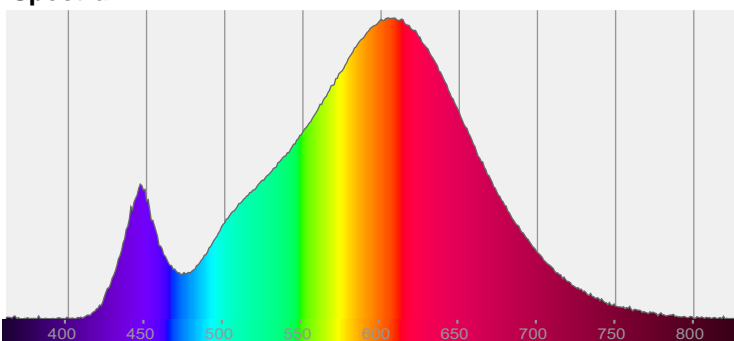
NU4-RAPH-XTM09-20LM-30K-83-20D-HET-WH

Date and time:  
1/4/2022 2:50:22 PM

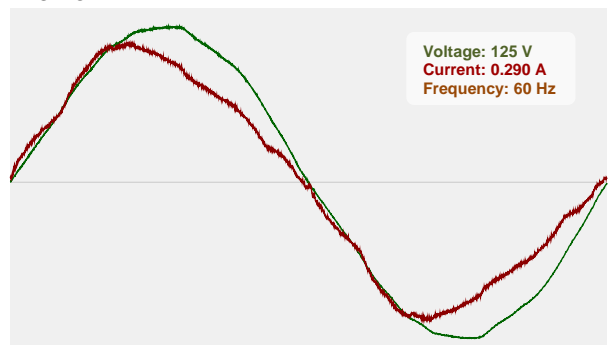


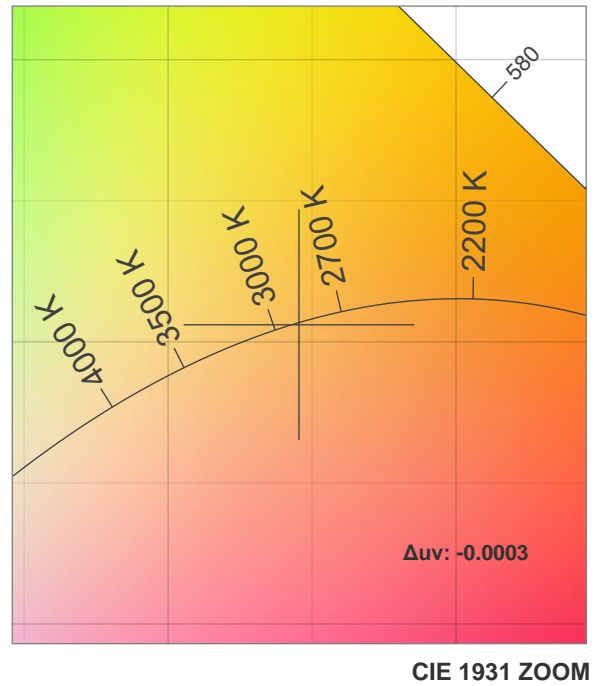
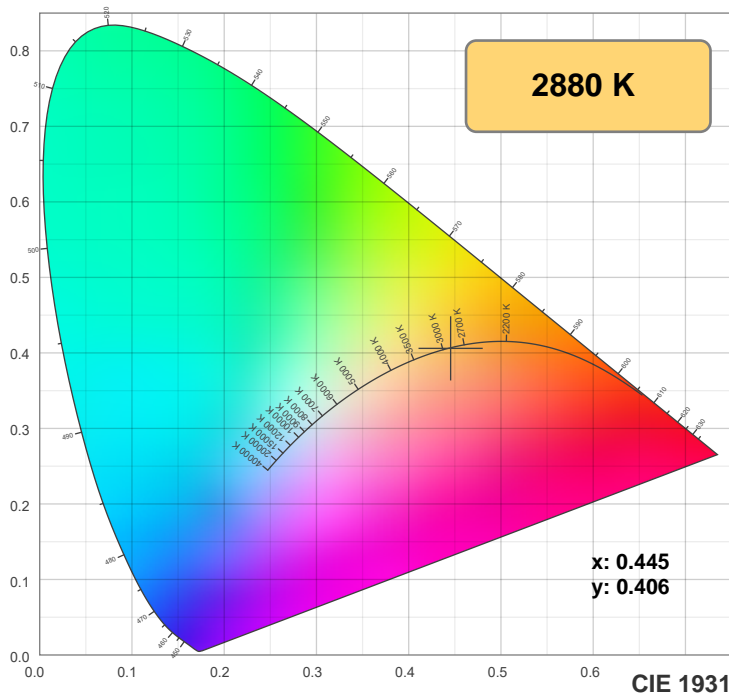
CIE 1931  
x: 0.445  
y: 0.406

Spectra

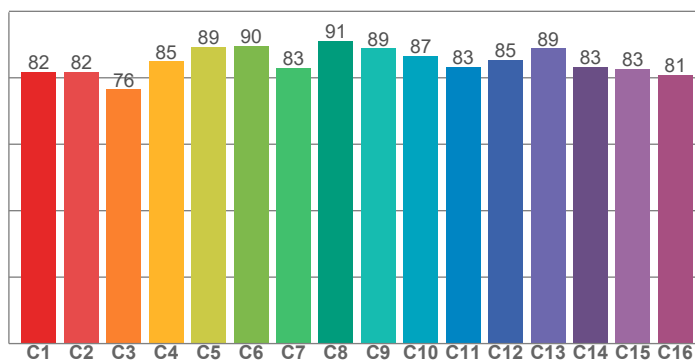


Power

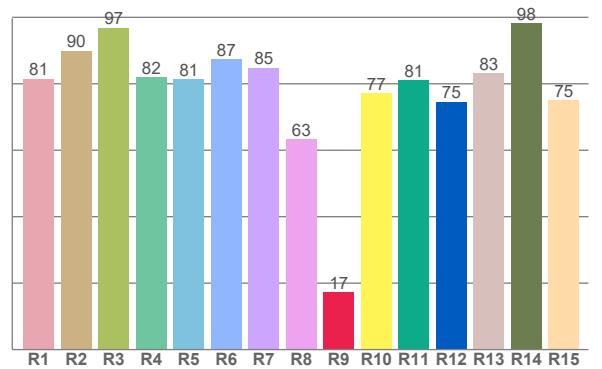




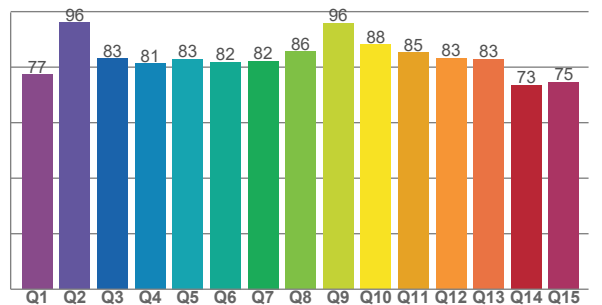
TM30: 84.7



CRI: 83.4 (R1-R8)



CQS: 82.3



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	82.1	81.4	87.5	84.8	63.4	17.3	77.2	81.0	74.6	83.1	98.3	75.0

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	76.4	84.9	89.3	89.6	83.0	91.1	88.8	86.6	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
77.3	96.0	83.1	81.2	82.9	81.9	82.2	85.7	95.8	88.1	85.2	83.2	82.8	73.5	74.6

## 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	$\Delta uv$
2880 K	83.4	17.3	84.7	98.3	82.3	0.445	0.406	0.255	0.349	-0.0003

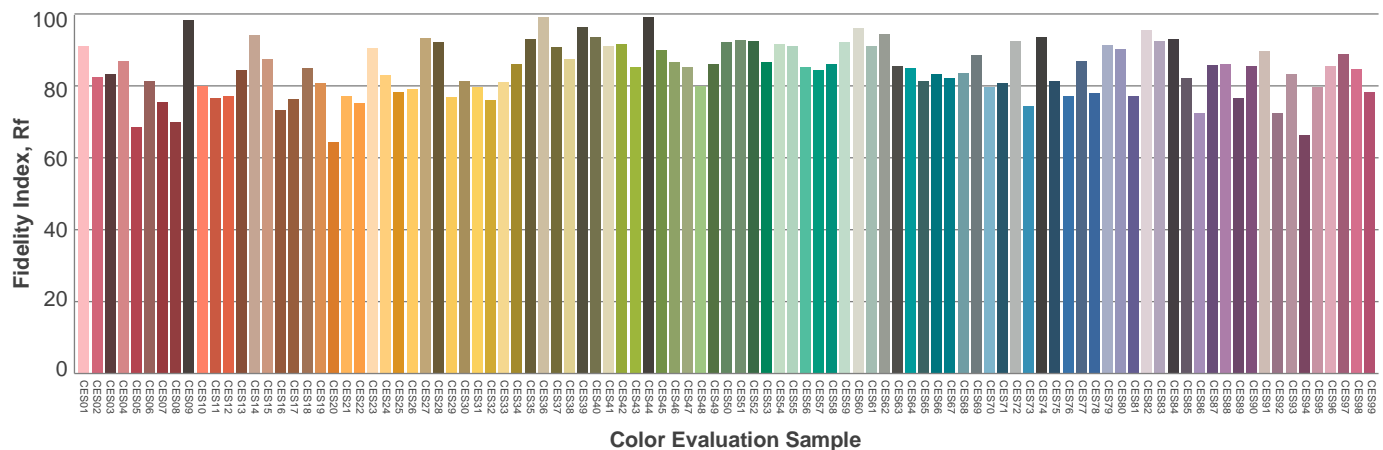
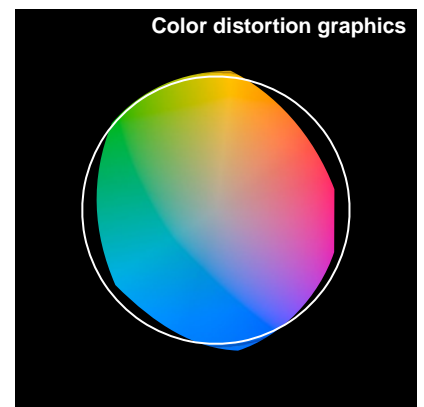
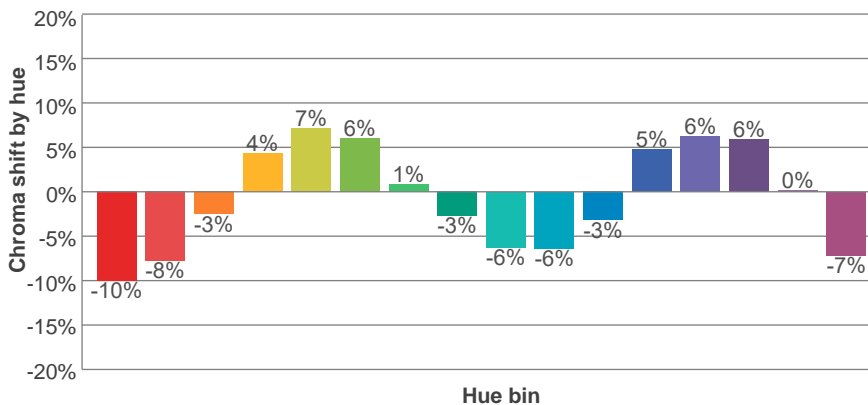
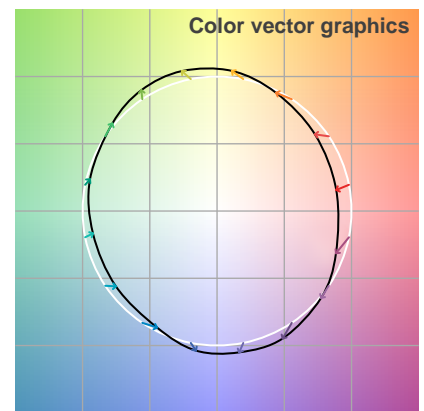
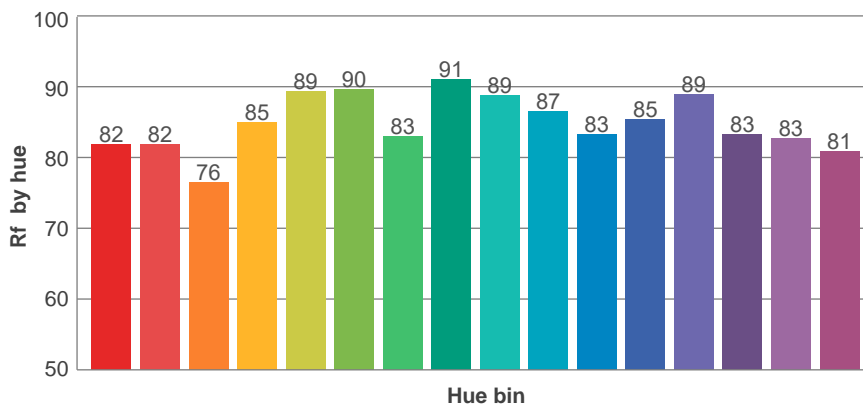
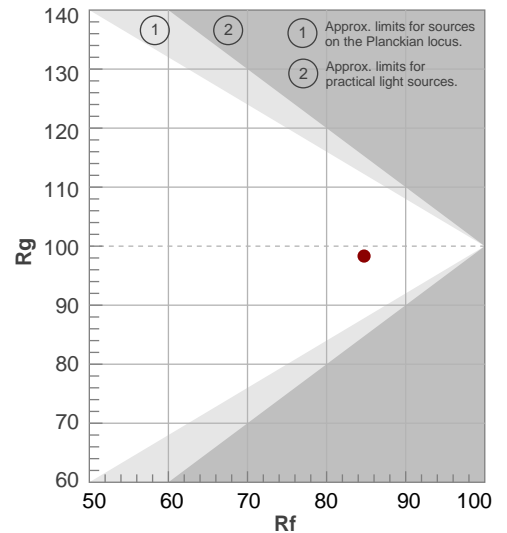
**Rf 84.7**

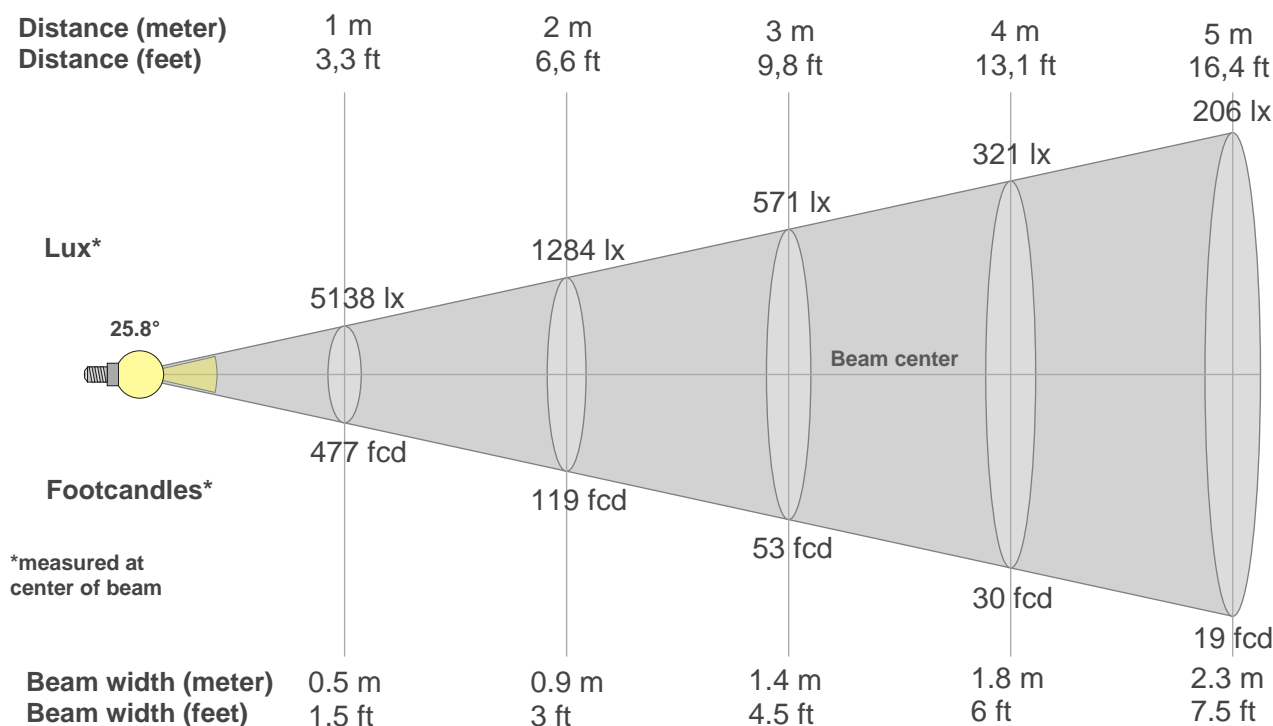
Fidelity index Rf

**Rg 98.3**

Gamut index Rg

Hue Bin	R <sub>f</sub>	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
5138lx	1284lx	571lx	321lx	206lx	143lx	105lx	80lx	63lx	51lx	42lx	36lx	30lx	26lx	23lx	20lx	18lx	16lx	14lx	13lx
477.3fcd	119.3fcd	53fcd	29.8fcd	19.1fcd	13.3fcd	9.7fcd	7.5fcd	5.9fcd	4.8fcd	3.9fcd	3.3fcd	2.8fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd

#### 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°
5138	5045	4806	4433	3924	3342	2761	2215	1730	1321	984	707	487	320	202	131	83	51	32	20
100%	98%	94%	86%	76%	65%	54%	43%	34%	26%	19%	14%	9%	6%	4%	3%	2%	1%	1%	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°
5138	5062	4827	4446	3958	3428	2883	2351	1874	1468	1105	807	582	418	298	205	136	87	55	37
100%	99%	94%	87%	77%	67%	56%	46%	36%	29%	21%	16%	11%	8%	6%	4%	3%	2%	1%	1%

#### 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°
5138	5075	4851	4463	3955	3370	2760	2187	1713	1317	986	713	491	329	218	141	89	57	36	22
100%	99%	94%	87%	77%	66%	54%	43%	33%	26%	19%	14%	10%	6%	4%	3%	2%	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°
5138	5048	4802	4408	3928	3401	2867	2357	1884	1485	1148	862	623	432	304	210	140	88	55	35
100%	98%	93%	86%	76%	66%	56%	46%	37%	29%	22%	17%	12%	8%	6%	4%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
25.8°	48.8°	62.5°	99.7%	99.6%