

Light efficiency:

38 Lumen/Watt

Light quality:

CRI: 83.5

Color temperature:

2888 K

Output: 1362 lm

Peak: 4644 cd

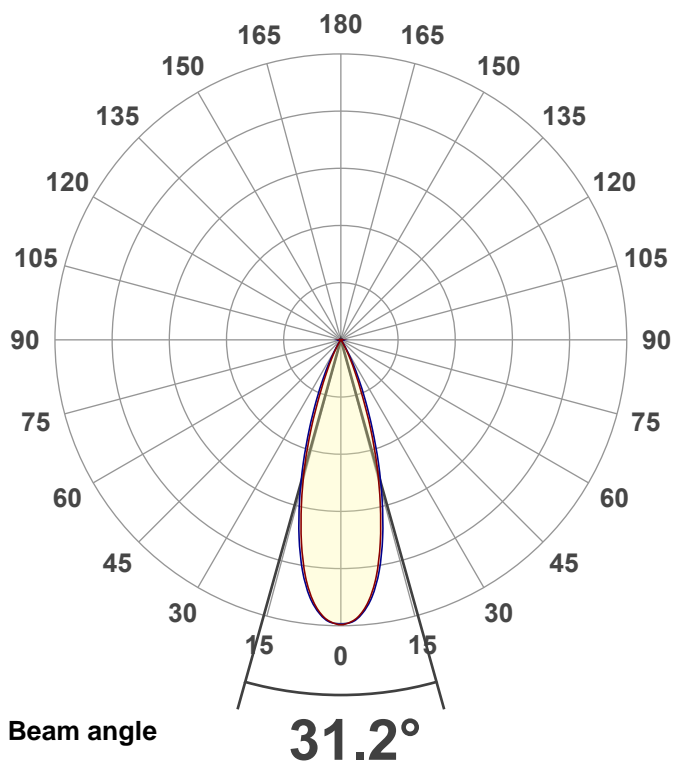
Power: 35.5 W

PF: 0.98



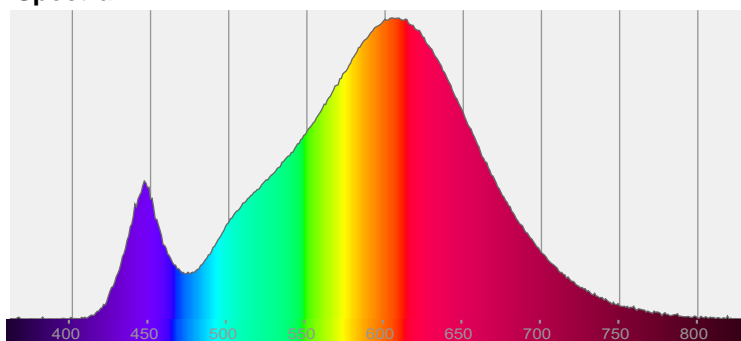
NU4-RAPH-XTM09-20LM-30K-83-30D-SBL-WH

Date and time:  
1/4/2022 4:05:07 PM

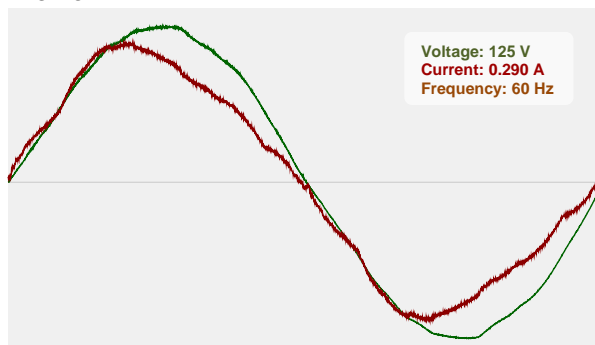


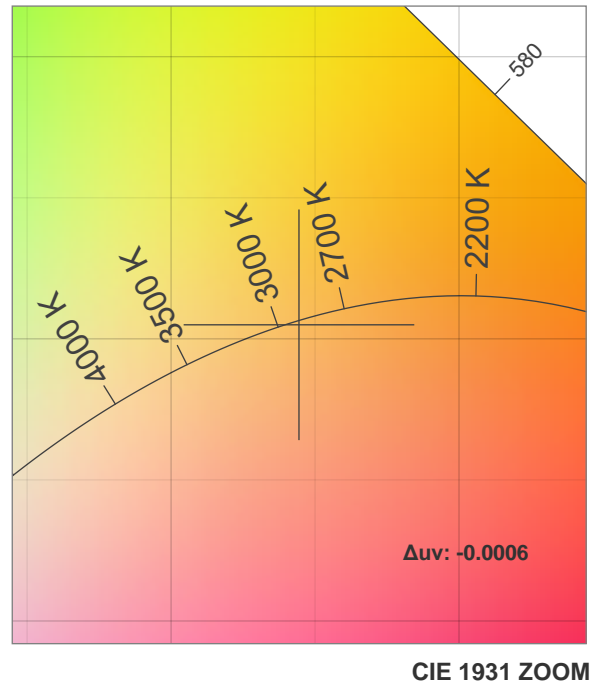
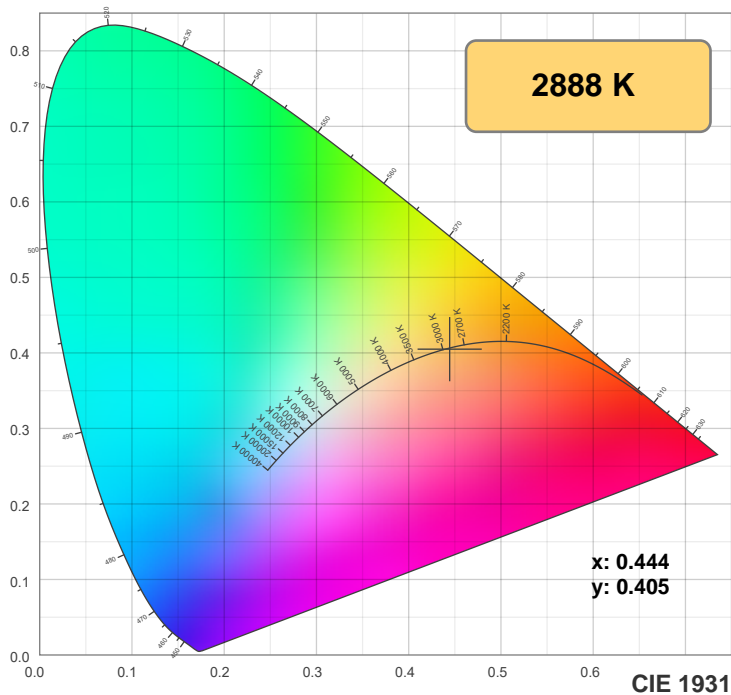
CIE 1931  
x: 0.444  
y: 0.405

Spectra

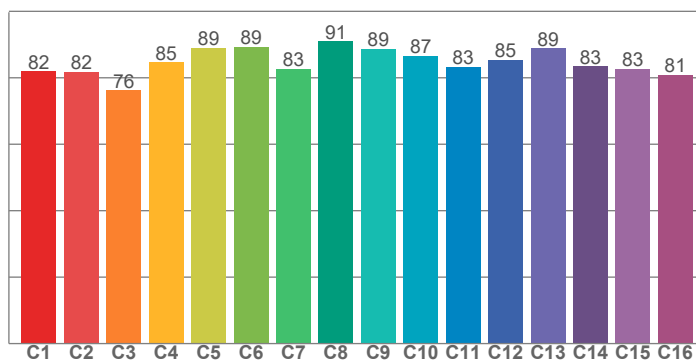


Power

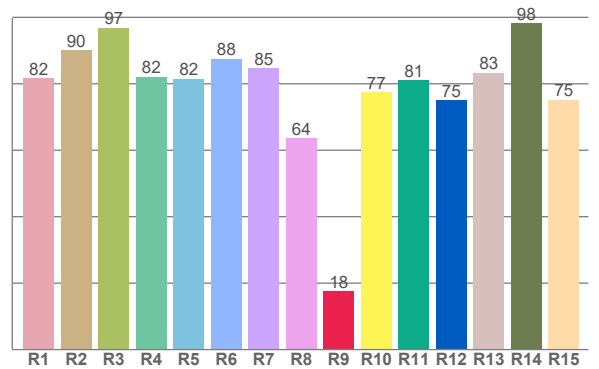




TM30: 84.6



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	87.6	84.8	63.5	17.6	77.4	81.1	75.0	83.3	98.2	75.2

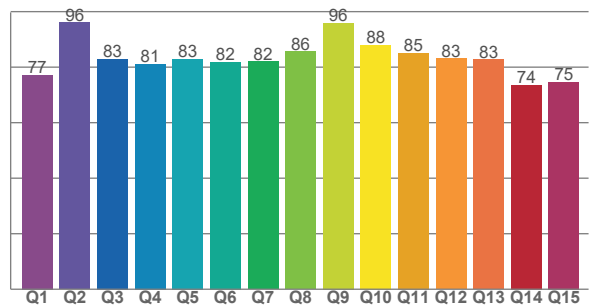
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.9	81.8	76.2	84.6	89.0	89.3	82.7	90.9	88.8	86.6	83.3	85.3	88.8	83.4	82.7	80.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.2	96.1	83.0	81.2	82.9	81.8	82.0	85.5	95.8	88.0	85.0	83.0	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	$\Delta uv$
2888 K	83.5	17.6	84.6	98.5	82.3	0.444	0.405	0.255	0.349	-0.0006

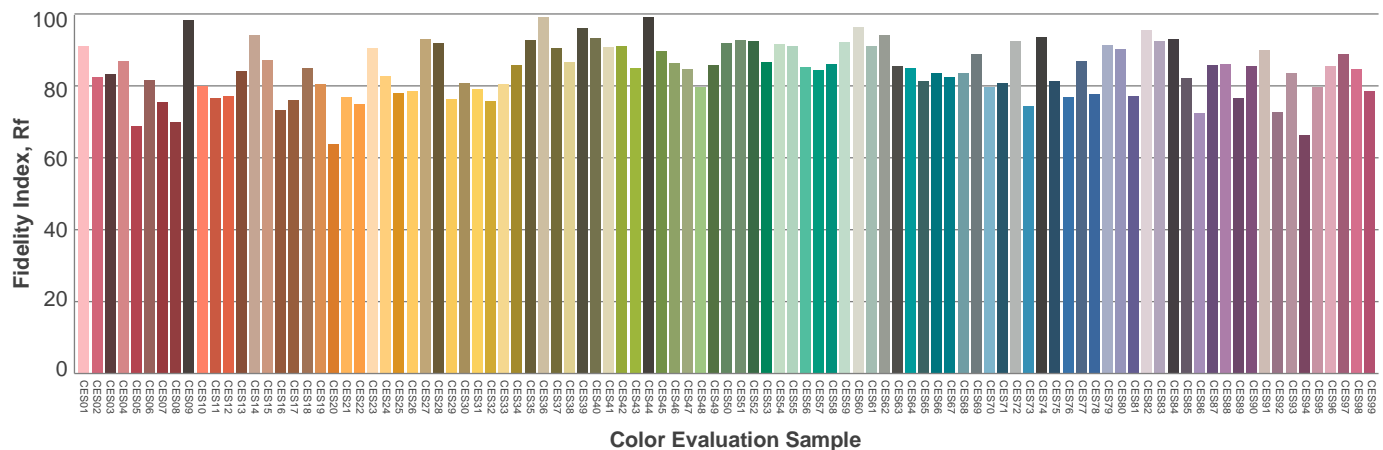
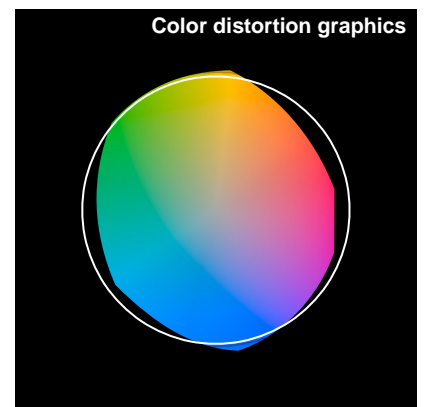
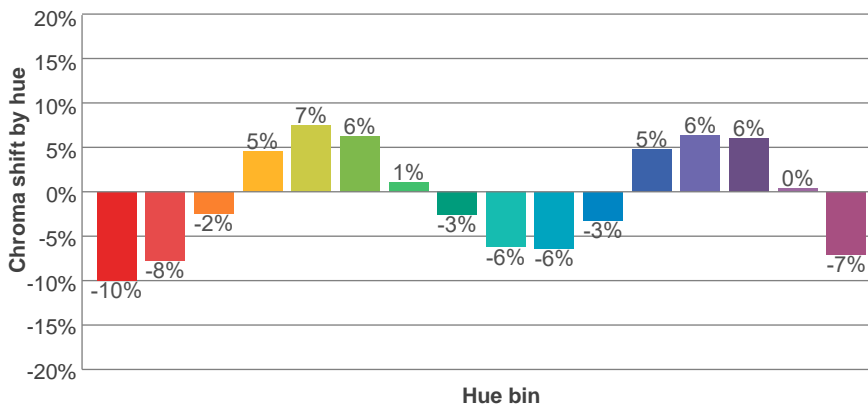
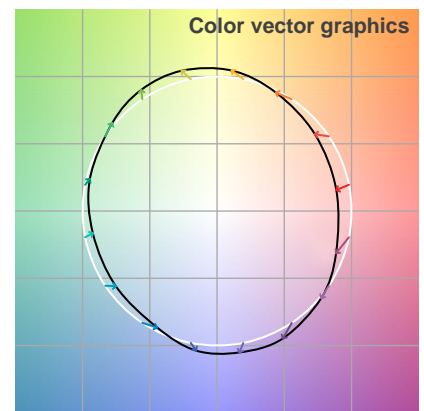
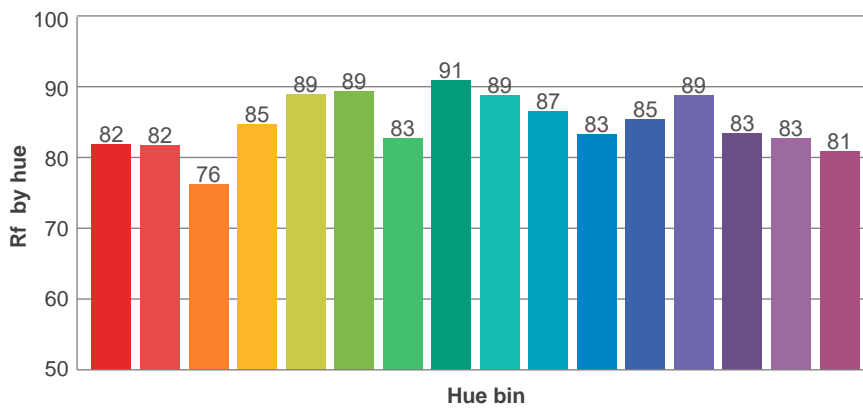
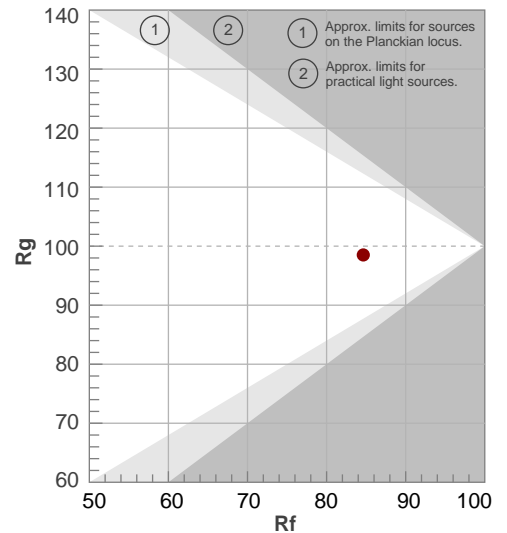
**Rf 84.6**

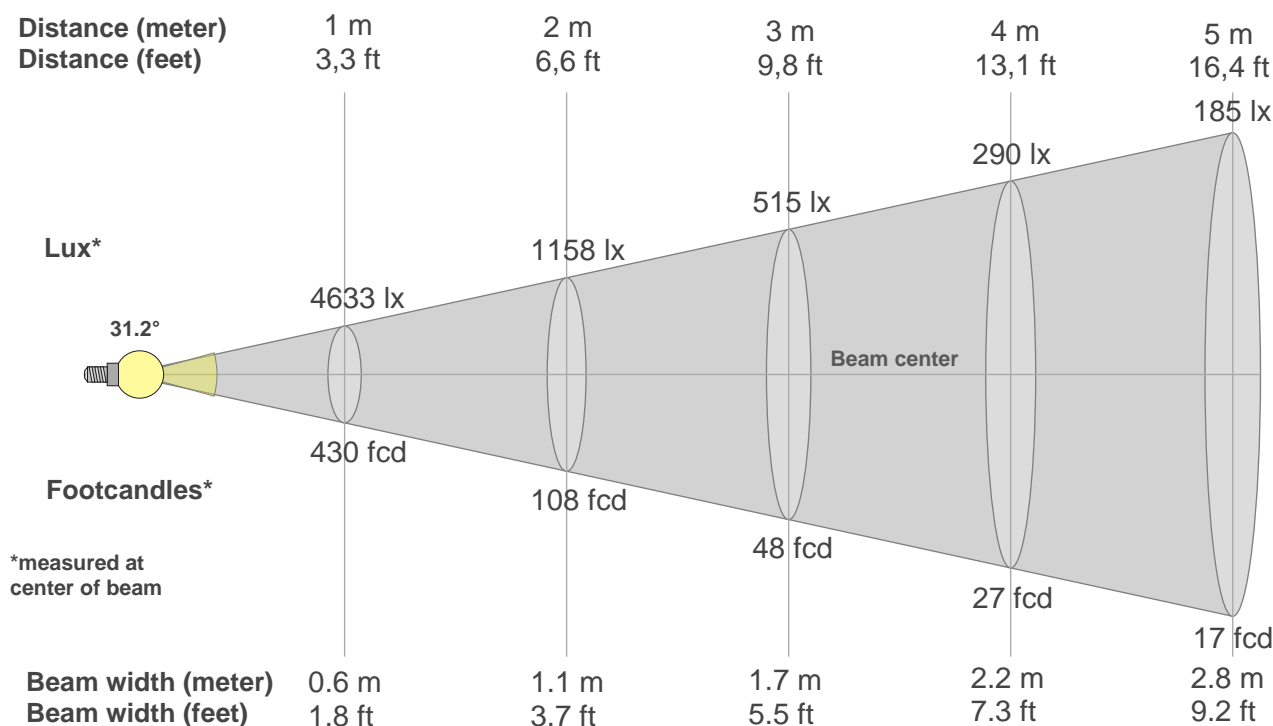
Fidelity index Rf

**Rg 98.5**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	12%
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%	-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
4633lx	1158lx	515lx	290lx	185lx	129lx	95lx	72lx	57lx	46lx	38lx	32lx	27lx	24lx	21lx	18lx	16lx	14lx	13lx	12lx
430.4fcd	107.6fcd	47.8fcd	26.9fcd	17.2fcd	12fcd	8.8fcd	6.7fcd	5.3fcd	4.3fcd	3.6fcd	3fcd	2.5fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd

#### 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°
4633	4582	4472	4281	3972	3574	3115	2624	2133	1647	1192	819	544	351	219	125	65	30	15	10
100%	99%	97%	92%	86%	77%	67%	57%	46%	36%	26%	18%	12%	8%	5%	3%	1%	1%	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°
4633	4599	4493	4307	4039	3691	3272	2800	2326	1865	1438	1068	774	538	346	198	109	65	37	21
100%	99%	97%	93%	87%	80%	71%	60%	50%	40%	31%	23%	17%	12%	7%	4%	2%	1%	1%	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°
4633	4582	4472	4281	3972	3574	3115	2624	2133	1647	1192	819	544	351	219	125	65	30	15	10
100%	99%	97%	92%	86%	77%	67%	57%	46%	36%	26%	18%	12%	8%	5%	3%	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°
4633	4599	4493	4307	4039	3691	3272	2800	2326	1865	1438	1068	774	538	346	198	109	65	37	21
100%	99%	97%	93%	87%	80%	71%	60%	50%	40%	31%	23%	17%	12%	7%	4%	2%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31.2°	51.4°	61.9°	99.7%	99.5%