

Light efficiency:



Light quality:



Color temperature:



Output: 1071 lm

Peak: 1444 cd

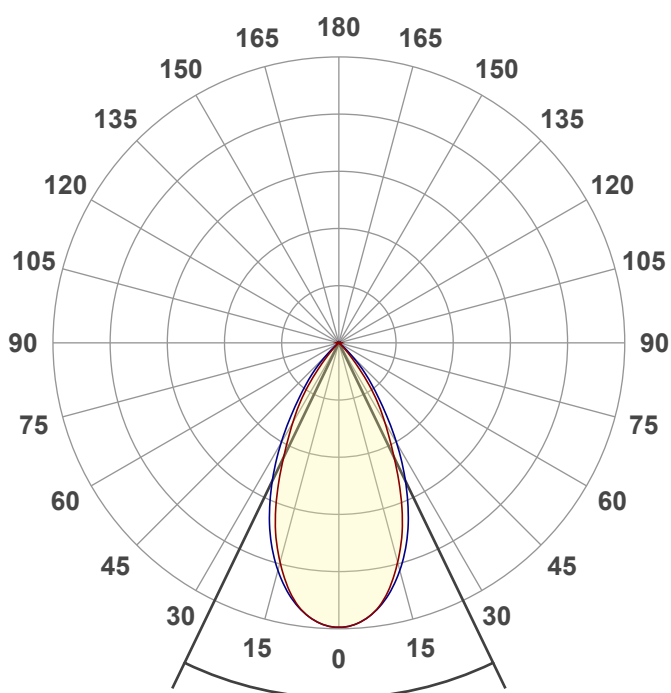
Power: 35.6 W

PF: 0.98



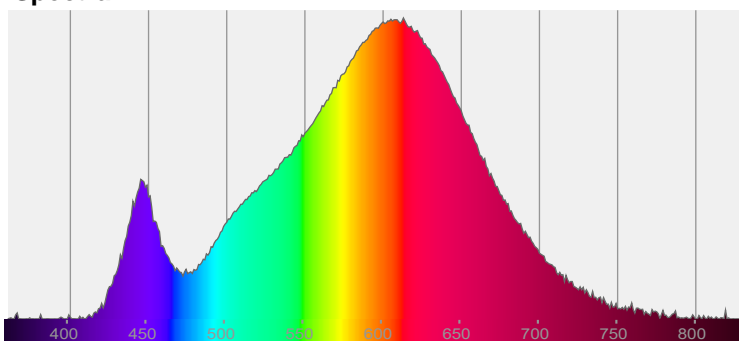
NU4-RAPH-XTM09-20LM-30K-83-50D-DL-WH

Date and time:
1/4/2022 2:06:55 PM

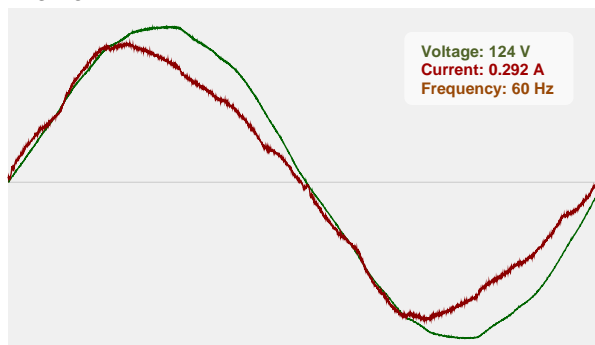


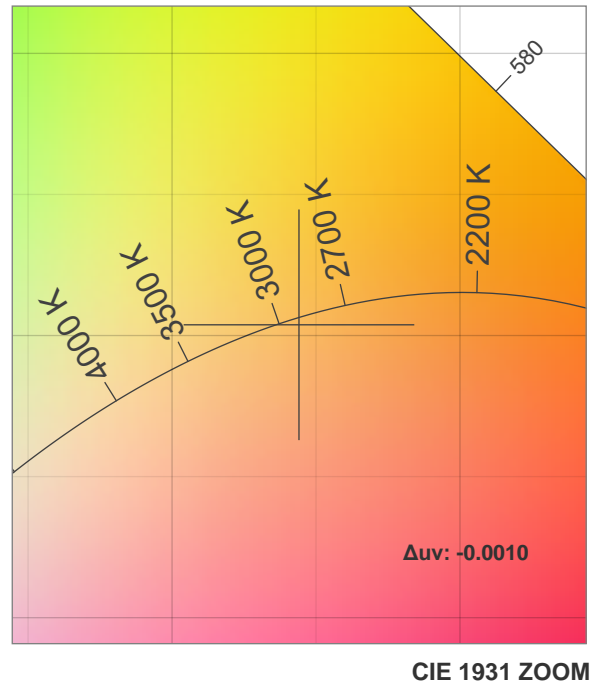
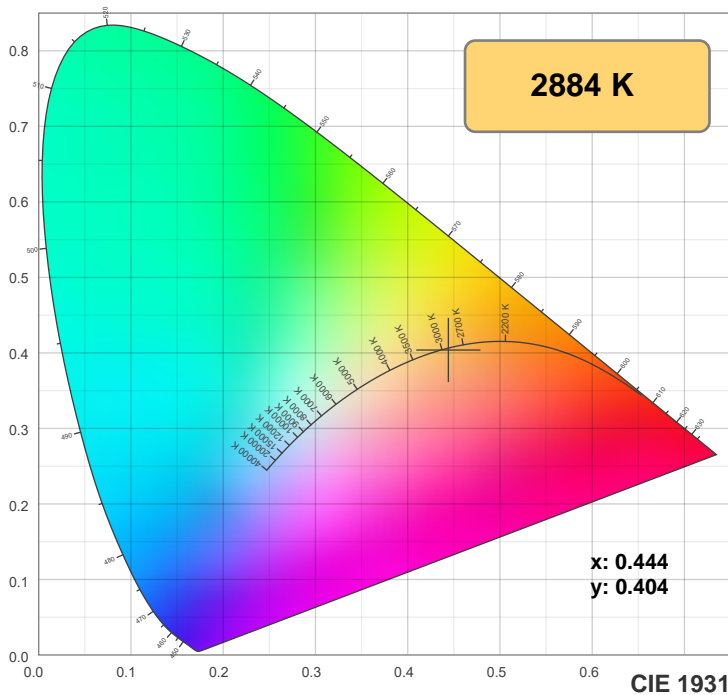
CIE 1931
x: 0.444
y: 0.404

Spectra

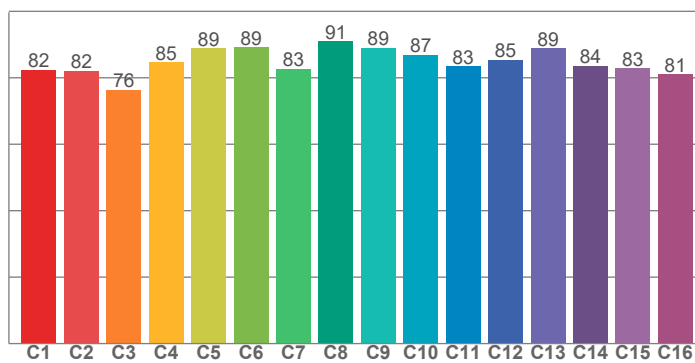


Power

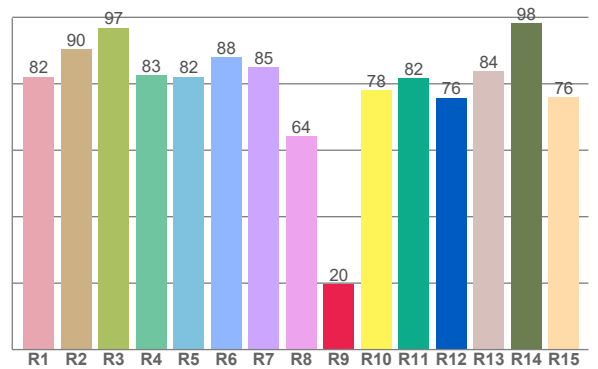




TM30: 84.7



CRI: 83.9 (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
82.1	90.4	96.8	82.6	82.1	88.0	84.9	64.3	19.6	78.1	81.7	75.8	83.8	98.2	75.9

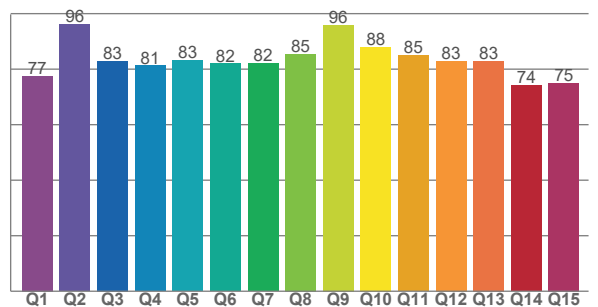
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.3	82.0	76.3	84.6	88.9	89.1	82.8	90.9	89.0	86.8	83.4	85.3	88.9	83.5	82.9	81.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.5	96.2	82.9	81.4	83.2	82.0	82.1	85.5	95.9	88.0	85.0	83.0	82.9	74.2	75.1

CQS: 82.5



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
2884 K	83.9	19.6	84.7	98.8	82.5	0.444	0.404	0.255	0.348	-0.0010

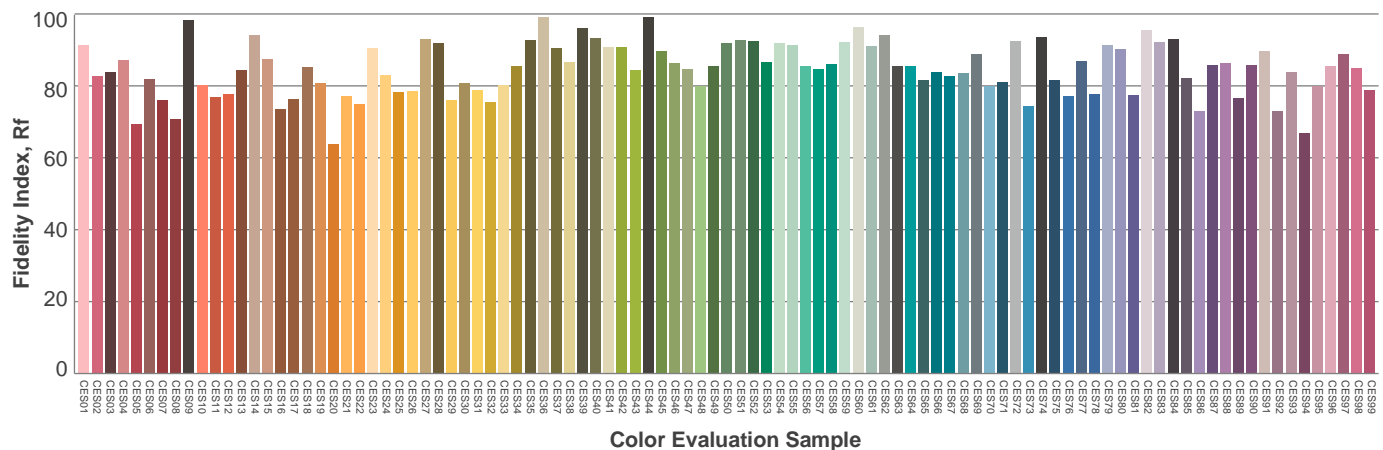
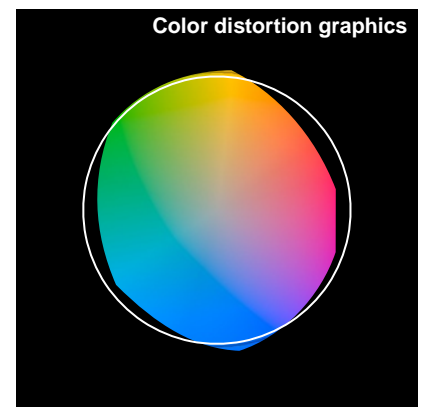
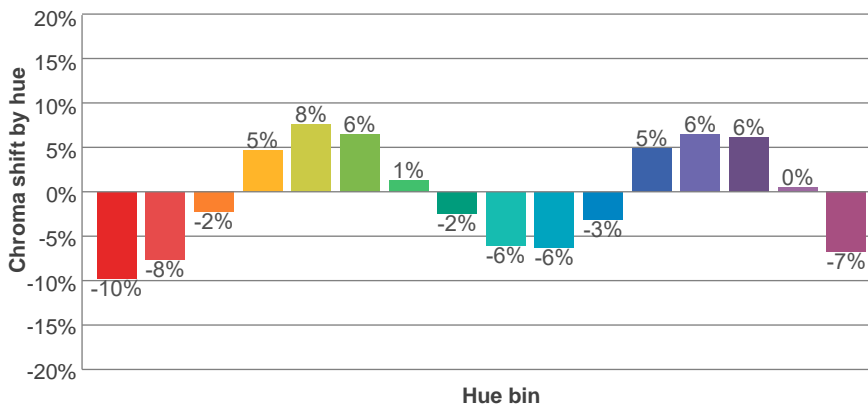
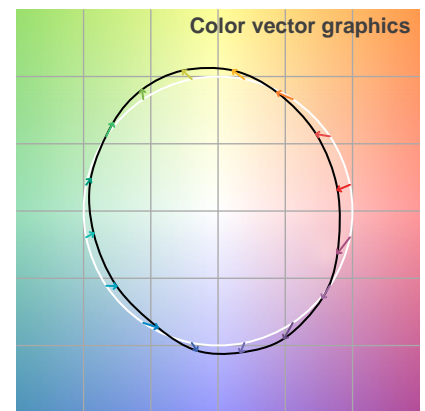
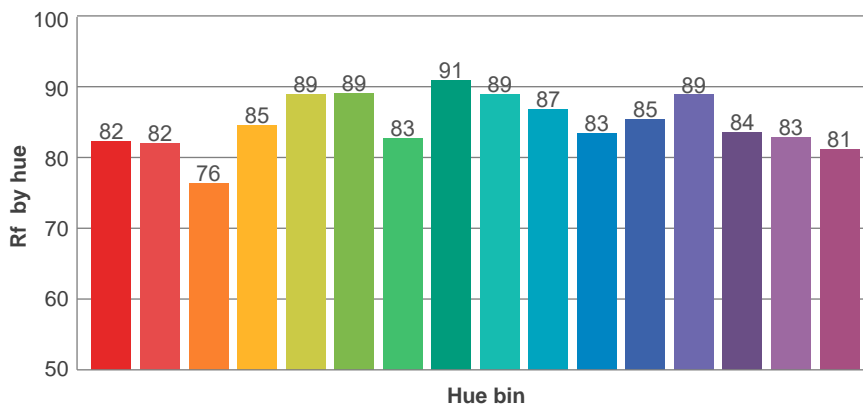
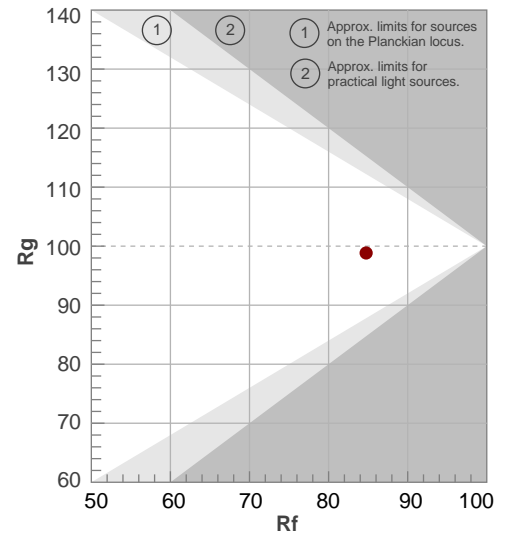
Rf 84.7

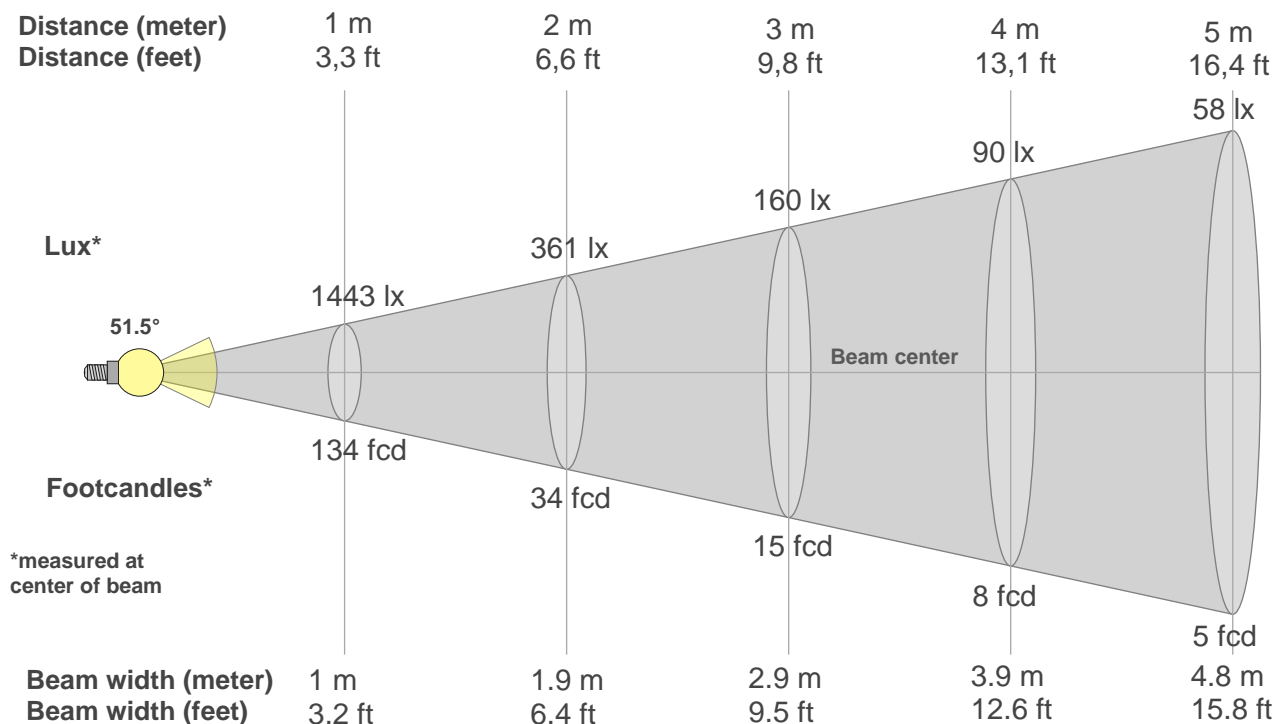
Fidelity index Rf

Rg 98.8

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	5%	10%
5	89	8%	5%
6	89	6%	-3%
7	83	1%	-11%
8	91	-2%	-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%	-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
1443lx	361lx	160lx	90lx	58lx	40lx	29lx	23lx	18lx	14lx	12lx	10lx	9lx	7lx	6lx	6lx	5lx	4lx	4lx	4lx
134.1fcd	33.5fcd	14.9fcd	8.4fcd	5.4fcd	3.7fcd	2.7fcd	2.1fcd	1.7fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd

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°
1443	1438	1425	1401	1366	1318	1259	1189	1114	1033	941	841	737	635	546	469	397	326	251	175
100%	100%	99%	97%	95%	91%	87%	82%	77%	72%	65%	58%	51%	44%	38%	32%	28%	23%	17%	12%

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°
1443	1438	1425	1401	1369	1328	1280	1225	1164	1095	1021	940	854	767	677	587	497	414	339	278
100%	100%	99%	97%	95%	92%	89%	85%	81%	76%	71%	65%	59%	53%	47%	41%	34%	29%	24%	19%

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°
1443	1438	1425	1401	1366	1318	1259	1189	1114	1033	941	841	737	635	546	469	397	326	251	175
100%	100%	99%	97%	95%	91%	87%	82%	77%	72%	65%	58%	51%	44%	38%	32%	28%	23%	17%	12%

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°
1443	1438	1425	1401	1369	1328	1280	1225	1164	1095	1021	940	854	767	677	587	497	414	339	278
100%	100%	99%	97%	95%	92%	89%	85%	81%	76%	71%	65%	59%	53%	47%	41%	34%	29%	24%	19%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51.5°	82.4°	93°	99.5%	98.1%