

Light efficiency:

69 Lumen/Watt

Light quality:

CRI: 81.4

Color temperature:

3052 K

Output: 2649 lm

Peak: 4131 cd

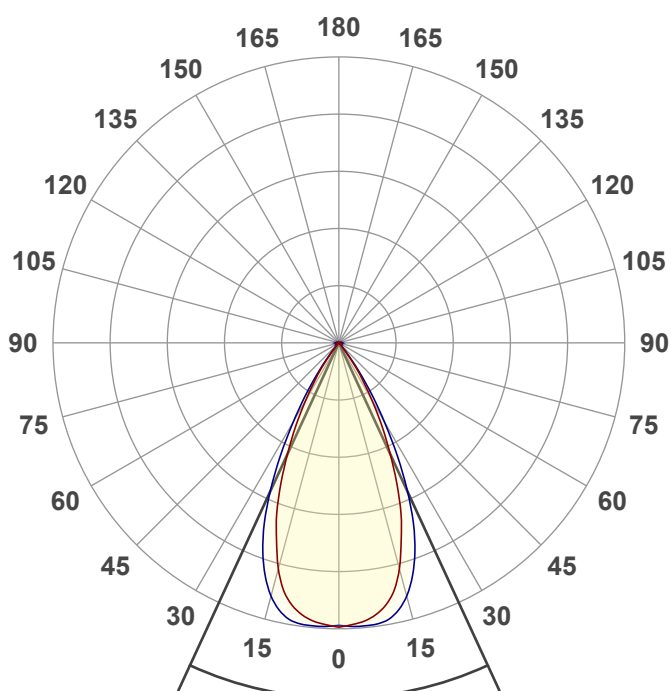
Power: 38.3 W

PF: 0.99



NU4-RAPH-SW-40LM-30K-80-50D-NL-WH

Date and time:
12/15/2021 9:39:55 AM



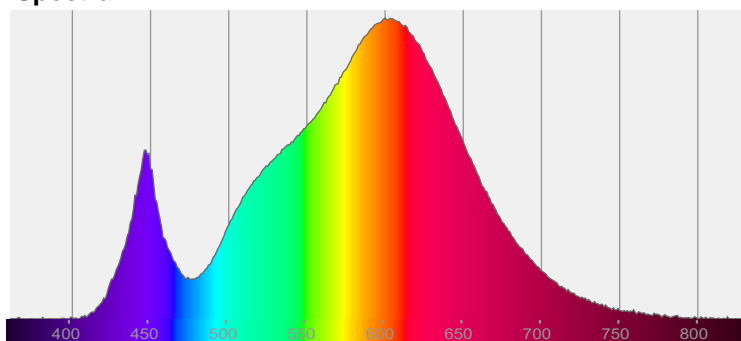
Beam angle

49.6°

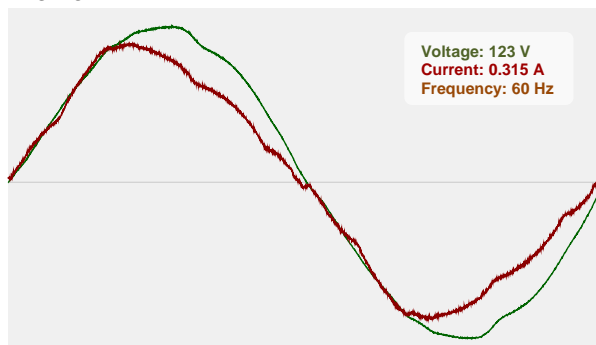


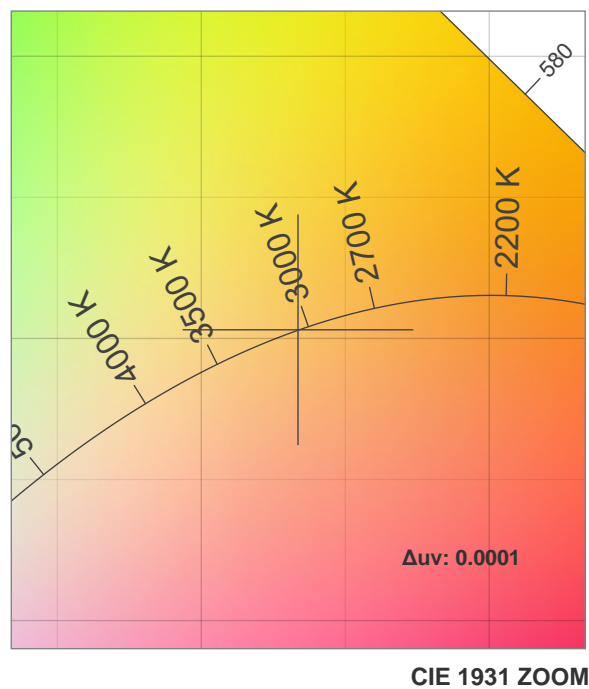
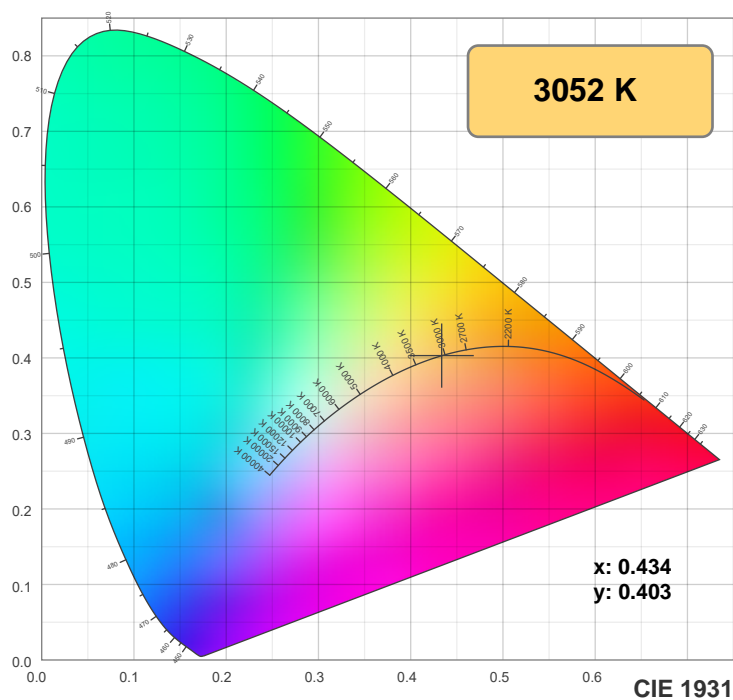
CIE 1931
x: 0.434
y: 0.403

Spectra

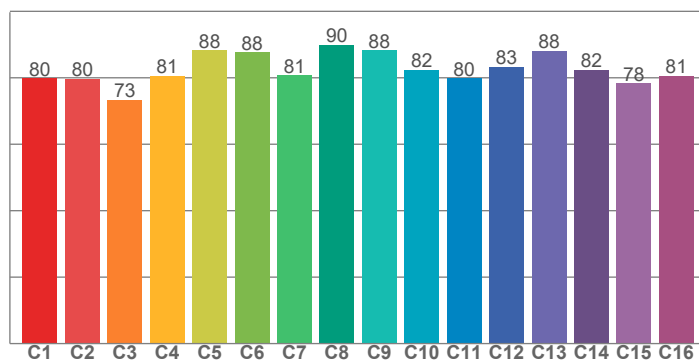


Power

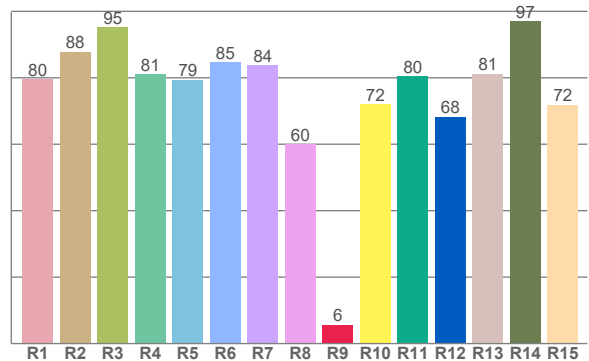




TM30: 82.6



CRI: 81.4 (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
79.6	87.8	95.2	81.1	79.4	84.6	83.8	60.0	5.7	72.1	80.4	68.3	81.2	97.1	71.9

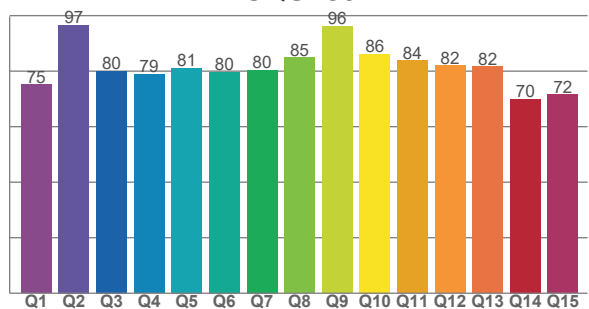
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.8	79.7	73.3	80.5	88.3	87.6	80.8	89.9	88.2	82.4	79.9	83.2	88.1	82.4	78.3	80.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.2	96.7	80.1	78.8	81.1	79.8	80.5	85.0	96.2	86.2	83.8	82.0	81.6	69.9	71.6

CQS: 80.4



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
3052 K	81.4	5.7	82.6	98.4	80.4	0.434	0.403	0.249	0.347	0.0001

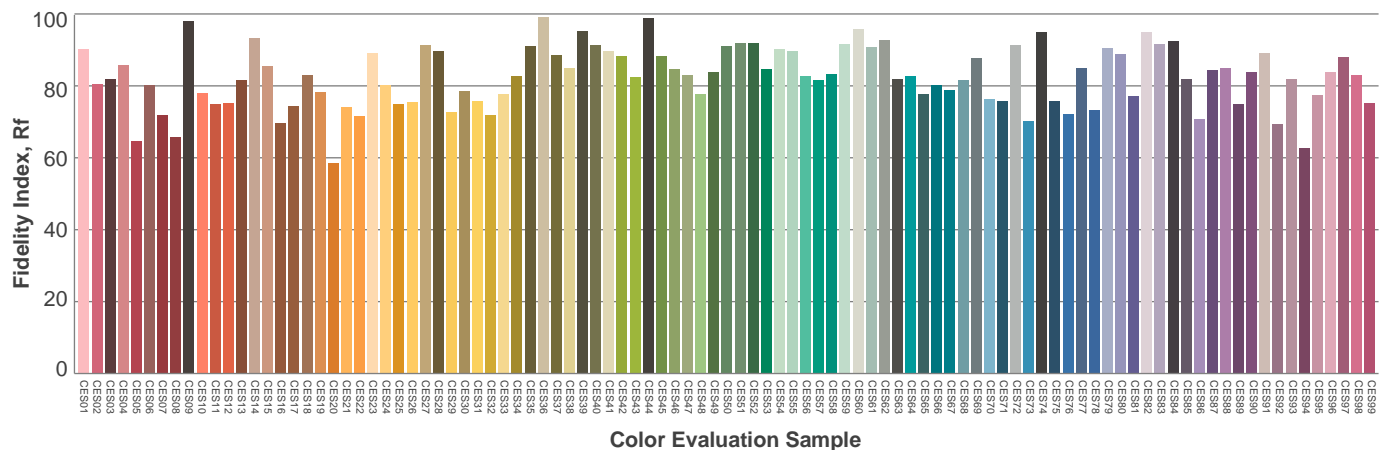
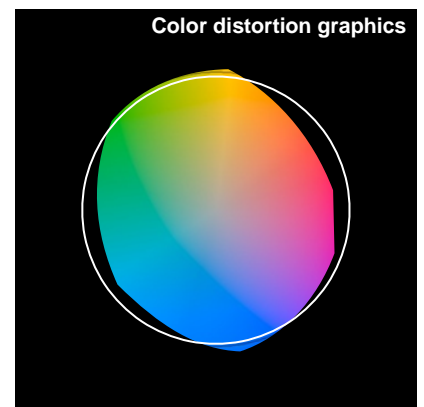
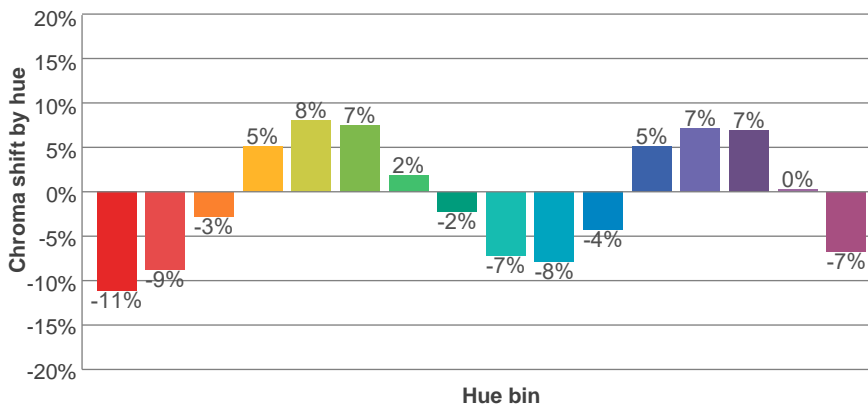
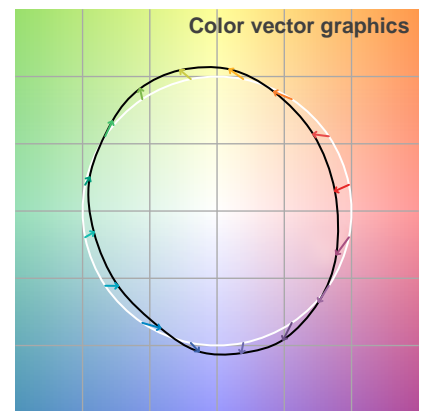
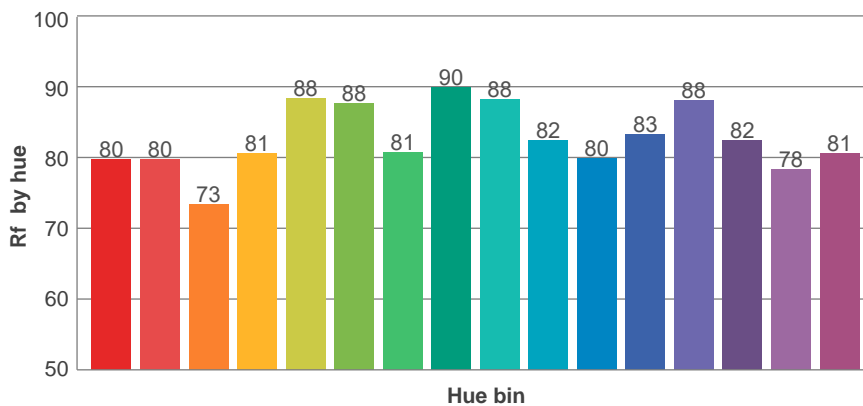
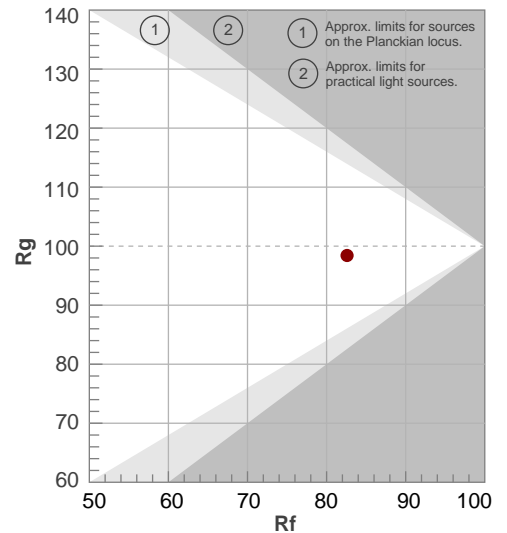
Rf 82.6

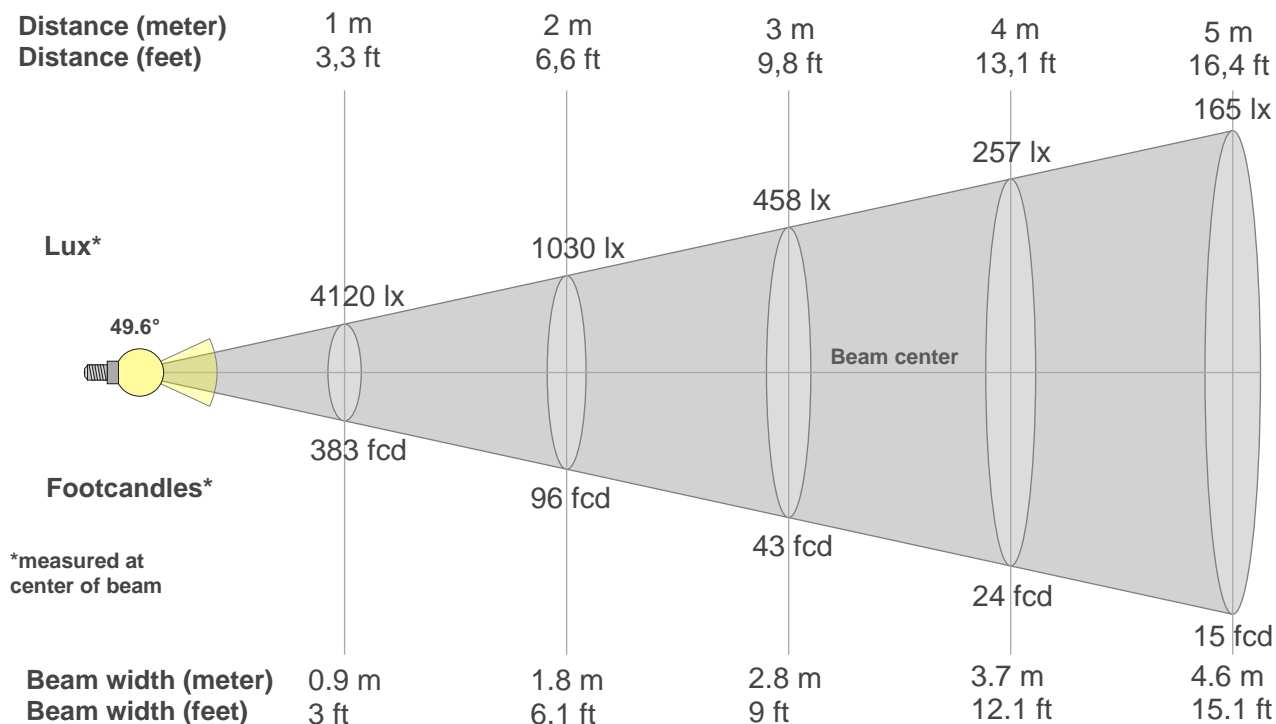
Fidelity index Rf

Rg 98.4

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-3%
2	80	-9%	8%
3	73	-3%	14%
4	81	5%	11%
5	88	8%	6%
6	88	7%	-3%
7	81	2%	-12%
8	90	-2%	-6%
9	88	-7%	-2%
10	82	-8%	5%
11	80	-4%	13%
12	83	5%	7%
13	88	7%	-3%
14	82	7%	-12%
15	78	0%	-14%
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
4120lx	1030lx	458lx	257lx	165lx	114lx	84lx	64lx	51lx	41lx	34lx	29lx	24lx	21lx	18lx	16lx	14lx	13lx	11lx	10lx
382.7fcd	95.7fcd	42.5fcd	23.9fcd	15.3fcd	10.6fcd	7.8fcd	6fcd	4.7fcd	3.8fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	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°
4120	4110	4082	4041	3976	3879	3732	3519	3247	2940	2642	2284	1924	1585	1267	963	705	503	295	130
100%	100%	99%	98%	97%	94%	91%	85%	79%	71%	64%	55%	47%	38%	31%	23%	17%	12%	7%	3%

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°
4120	4122	4130	4130	4121	4088	4006	3881	3711	3493	3232	2912	2536	2134	1724	1321	978	673	413	214
100%	100%	100%	100%	100%	99%	97%	94%	90%	85%	78%	71%	62%	52%	42%	32%	24%	16%	10%	5%

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°
4120	4110	4082	4041	3976	3879	3732	3519	3247	2940	2642	2284	1924	1585	1267	963	705	503	295	130
100%	100%	99%	98%	97%	94%	91%	85%	79%	71%	64%	55%	47%	38%	31%	23%	17%	12%	7%	3%

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°
4120	4122	4130	4130	4121	4088	4006	3881	3711	3493	3232	2912	2536	2134	1724	1321	978	673	413	214
100%	100%	100%	100%	100%	99%	97%	94%	90%	85%	78%	71%	62%	52%	42%	32%	24%	16%	10%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49.6°	71.6°	79°	99.6%	99.4%