

Light efficiency:

54 Lumen/Watt

Light quality:

CRI: 81.1

Color temperature:

3031 K

Output: 2061 lm

Peak: 4802 cd

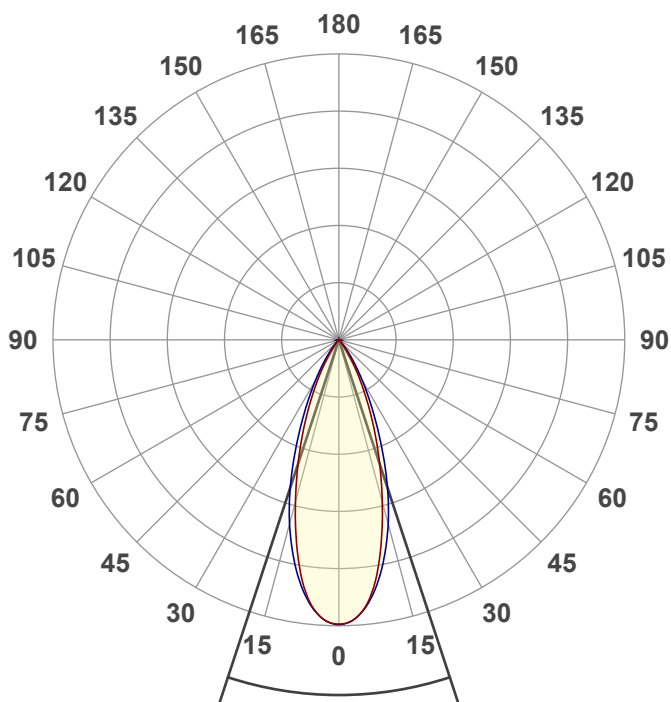
Power: 38.3 W

PF: 0.99



NU4-RAPH-SW-40LM-30K-80-25D-DL-WH

Date and time:
12/16/2021 1:57:39 PM



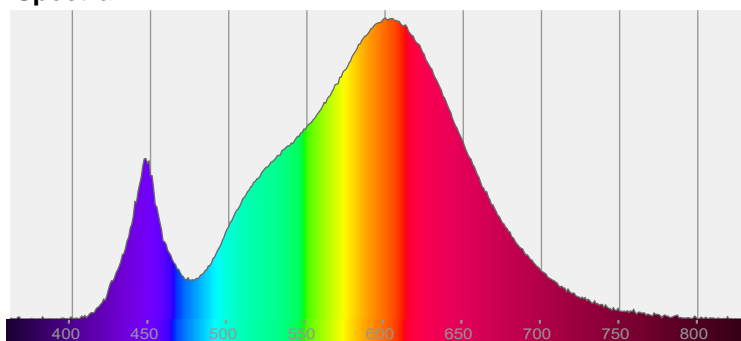
Beam angle

36.4°

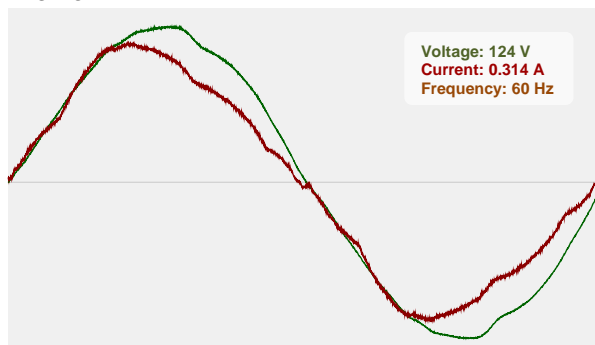


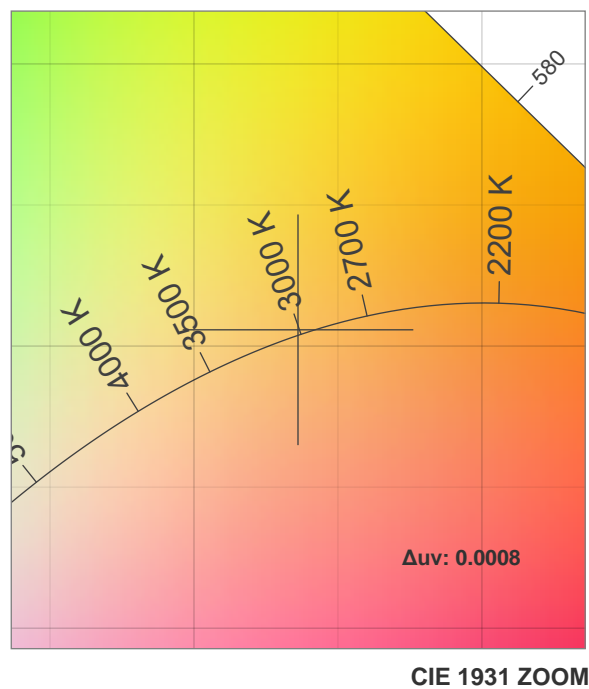
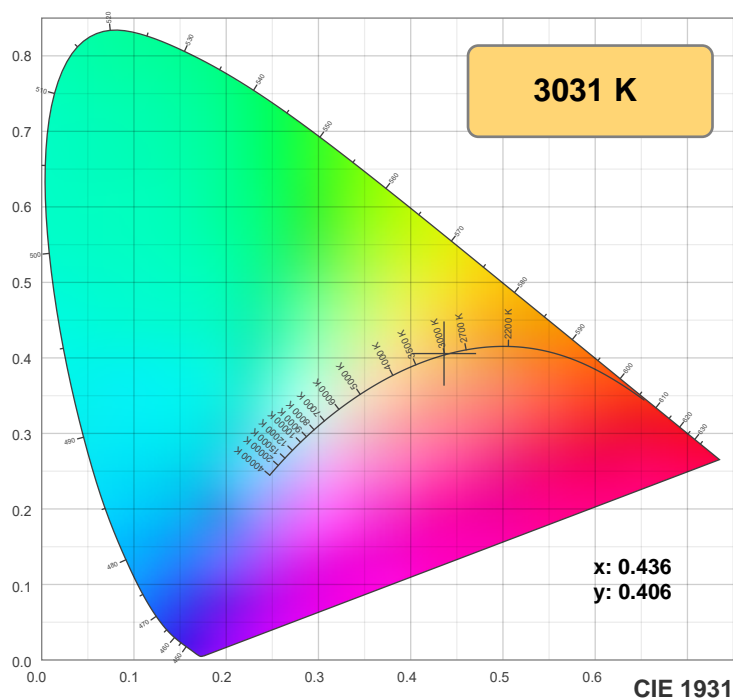
CIE 1931
x: 0.436
y: 0.406

Spectra

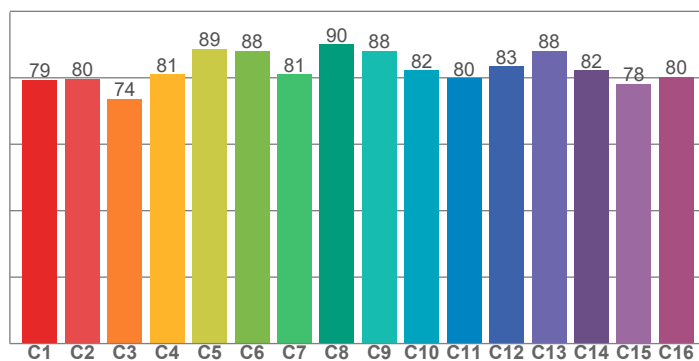


Power

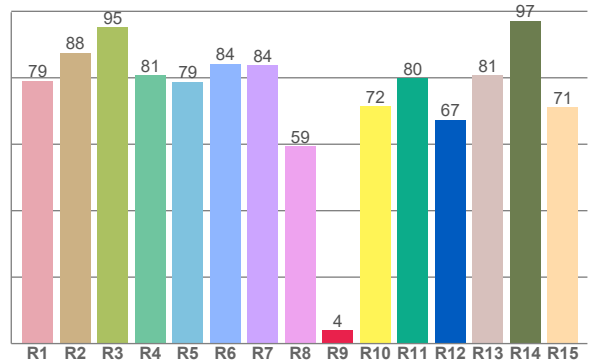




TM30: 82.6



CRI: 81.1 (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
79.1	87.5	95.3	80.7	78.8	84.2	83.8	59.3	4.0	71.5	79.9	67.3	80.7	97.2	71.1

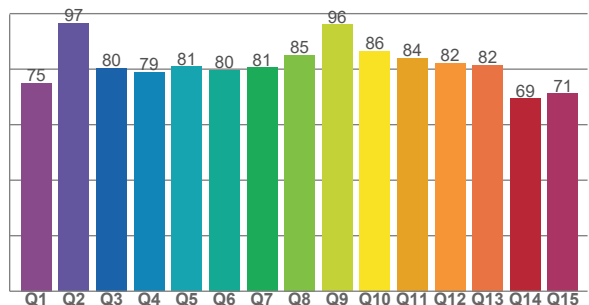
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.4	79.6	73.6	81.0	88.7	88.1	81.0	90.1	88.1	82.2	79.9	83.4	88.1	82.2	78.1	80.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.0	96.5	80.4	78.9	80.9	79.7	80.6	85.1	96.1	86.5	84.1	82.3	81.6	69.4	71.2

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
3031 K	81.1	4.0	82.6	98.0	80.4	0.436	0.406	0.249	0.348	0.0008

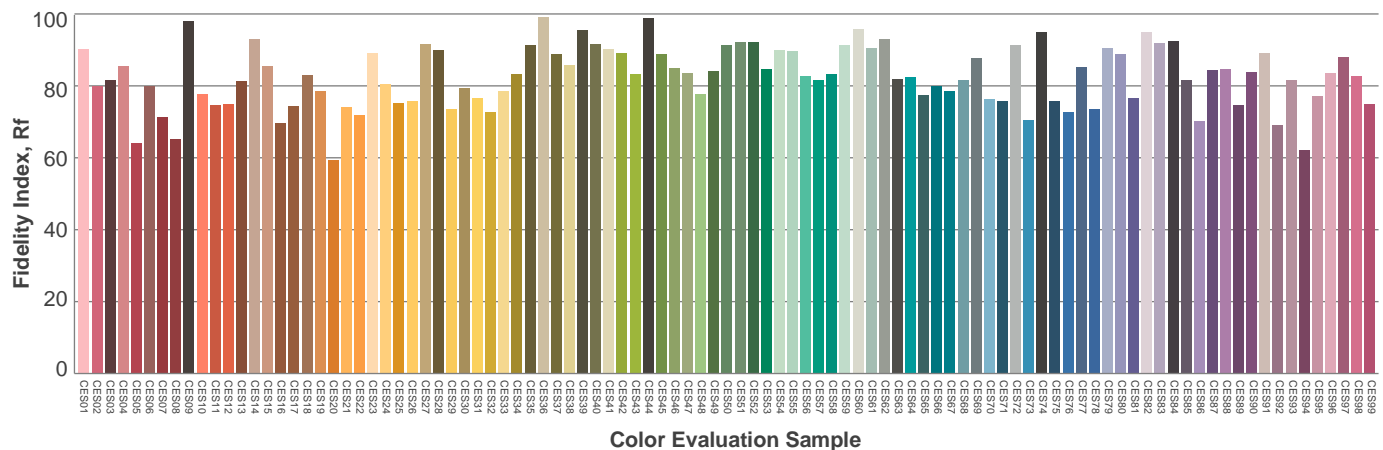
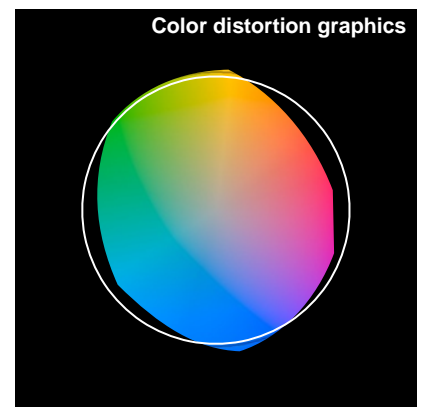
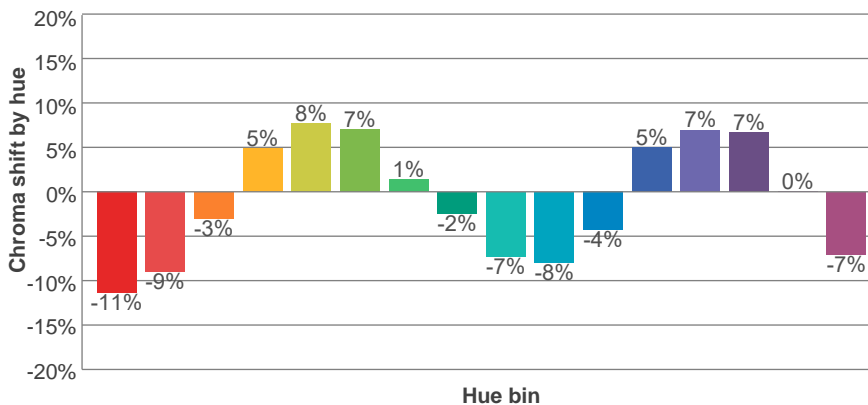
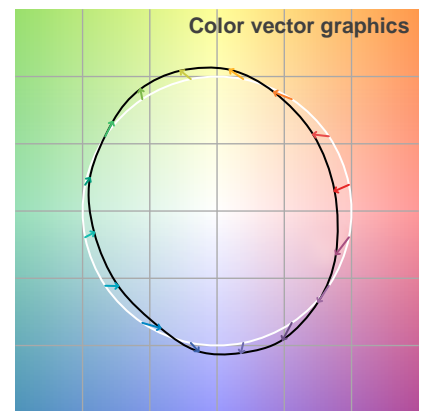
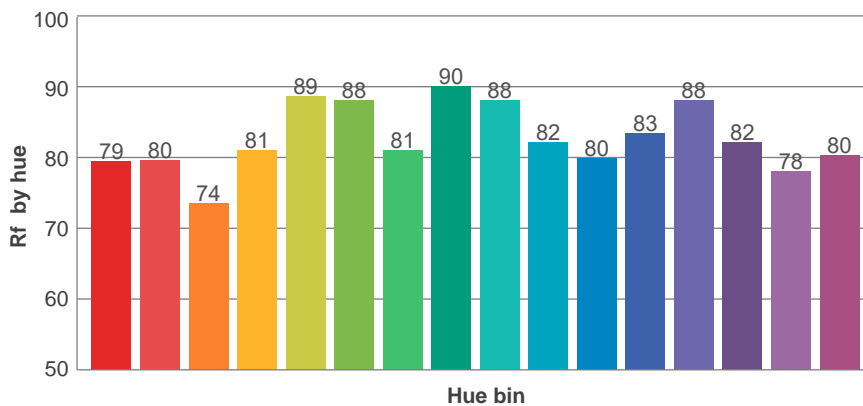
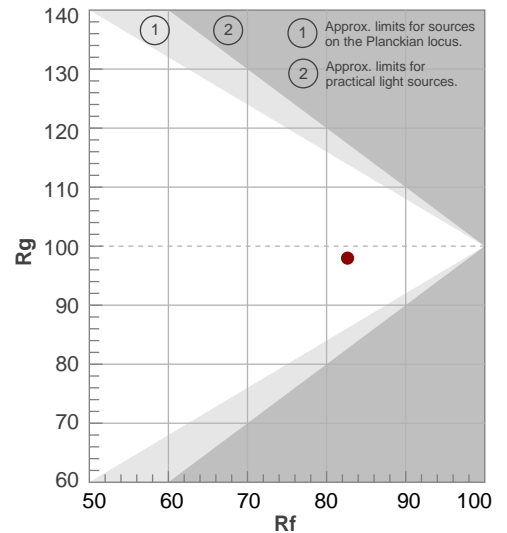
Rf 82.6

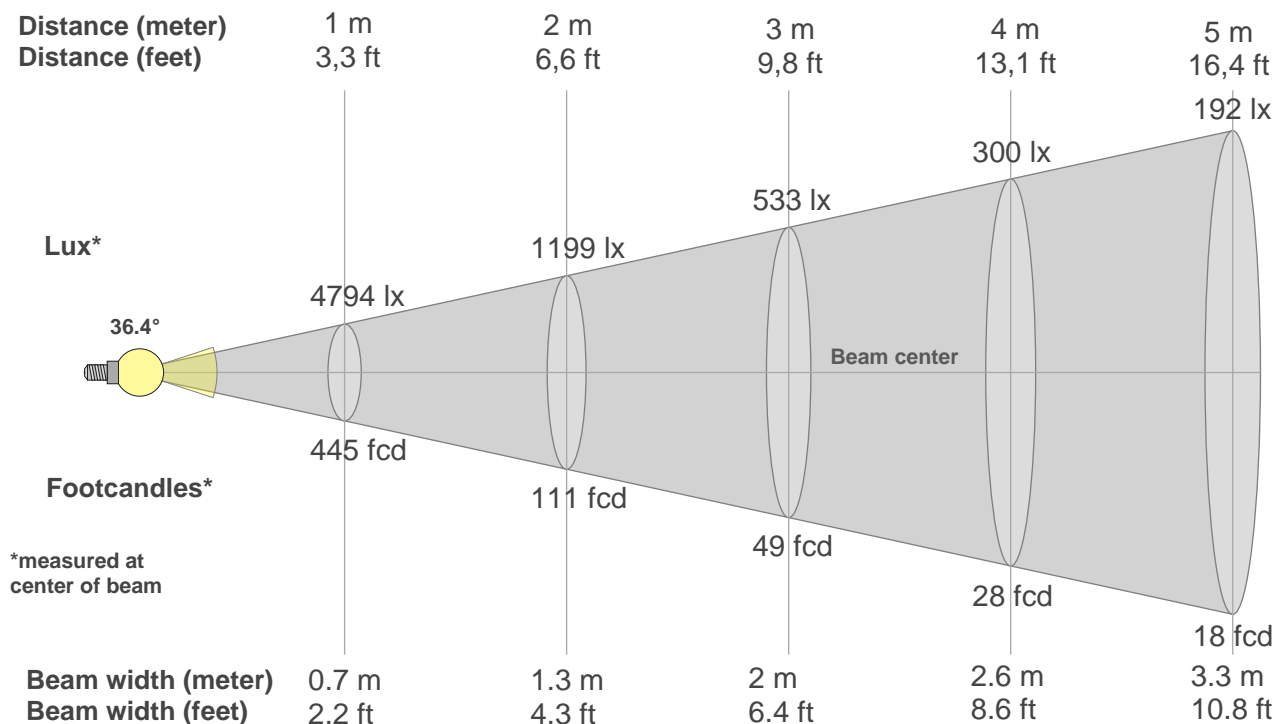
Fidelity index Rf

Rg 98.0

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	79	-11%	-3%
2	80	-9%	8%
3	74	-3%	14%
4	81	5%	11%
5	89	8%	6%
6	88	7%	-3%
7	81	1%	-12%
8	90	-2%	-6%
9	88	-7%	-2%
10	82	-8%	6%
11	80	-4%	13%
12	83	5%	7%
13	88	7%	-3%
14	82	7%	-13%
15	78	0%	-14%
16	80	-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
4794lx	1199lx	533lx	300lx	192lx	133lx	98lx	75lx	59lx	48lx	40lx	33lx	28lx	24lx	21lx	19lx	17lx	15lx	13lx	12lx
445.4fcd	111.3fcd	49.5fcd	27.8fcd	17.8fcd	12.4fcd	9.1fcd	7fcd	5.5fcd	4.5fcd	3.7fcd	3.1fcd	2.6fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.4fcd	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°
4794	4758	4663	4481	4202	3848	3450	3037	2628	2242	1884	1552	1248	979	747	554	401	275	174	102
100%	99%	97%	93%	88%	80%	72%	63%	55%	47%	39%	32%	26%	20%	16%	12%	8%	6%	4%	2%

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°
4794	4756	4660	4502	4283	4012	3707	3379	3032	2663	2279	1906	1569	1272	1013	790	601	445	322	224
100%	99%	97%	94%	89%	84%	77%	70%	63%	56%	48%	40%	33%	27%	21%	16%	13%	9%	7%	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°
4794	4758	4663	4481	4202	3848	3450	3037	2628	2242	1884	1552	1248	979	747	554	401	275	174	102
100%	99%	97%	93%	88%	80%	72%	63%	55%	47%	39%	32%	26%	20%	16%	12%	8%	6%	4%	2%

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°
4794	4756	4660	4502	4283	4012	3707	3379	3032	2663	2279	1906	1569	1272	1013	790	601	445	322	224
100%	99%	97%	94%	89%	84%	77%	70%	63%	56%	48%	40%	33%	27%	21%	16%	13%	9%	7%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36.4°	64.5°	78.8°	99.5%	99.1%