

Light efficiency:

51 Lumen/Watt

Light quality:

CRI: 81.1

Color temperature:

3020 K

Output: 1974 lm

Peak: 5950 cd

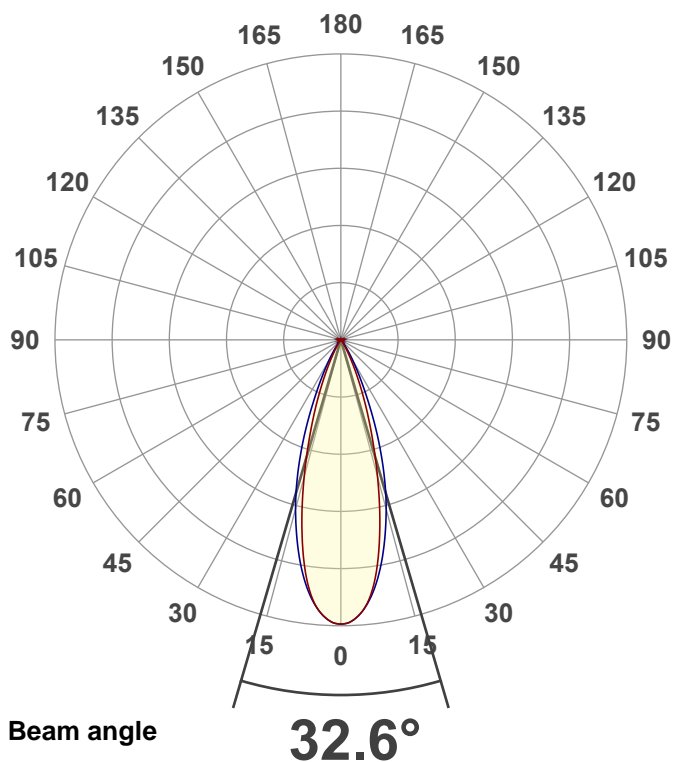
Power: 38.4 W

PF: 0.99



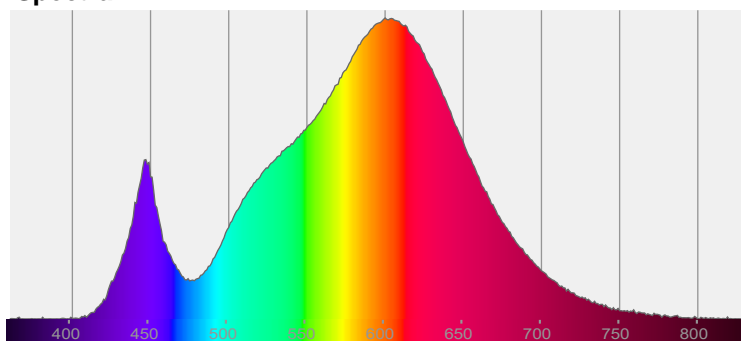
NU4-RAPH-SW-40LM-30K-80-20D-DL-WH

Date and time:
12/16/2021 1:39:11 PM

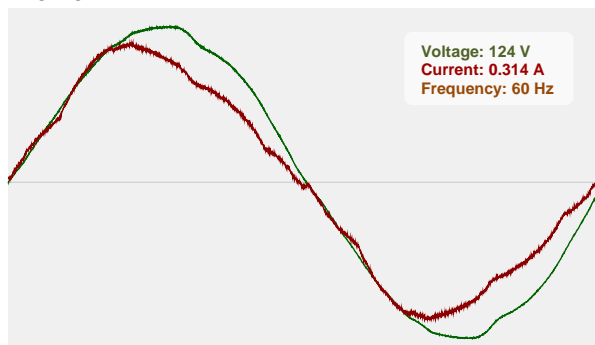


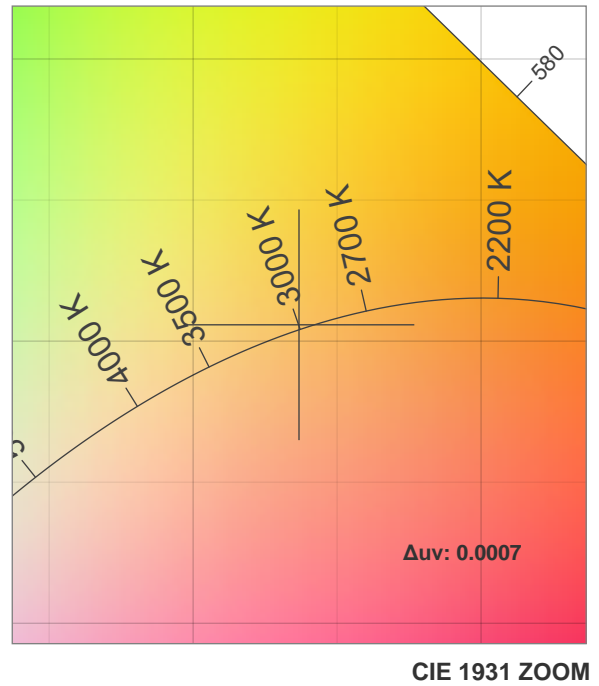
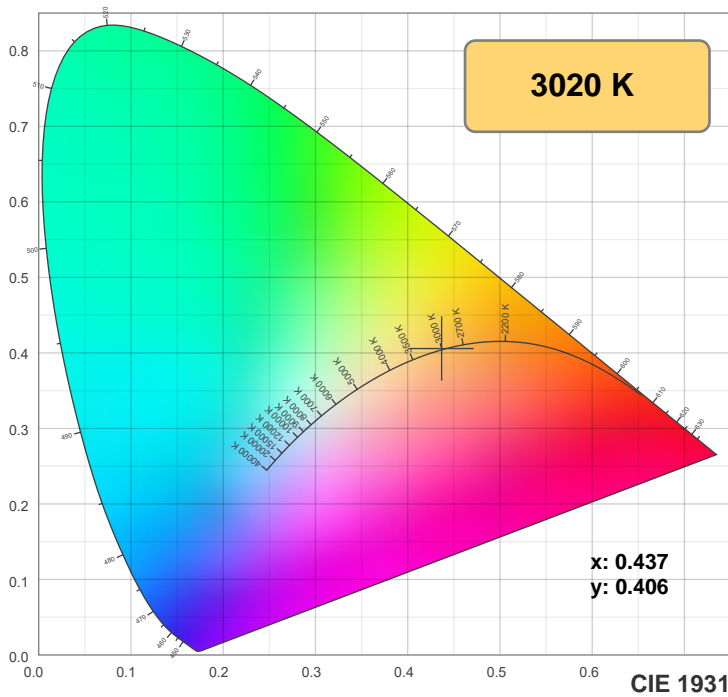
CIE 1931
x: 0.437
y: 0.406

Spectra

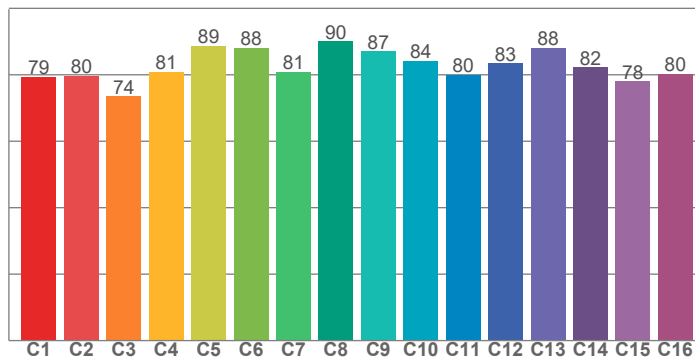


Power

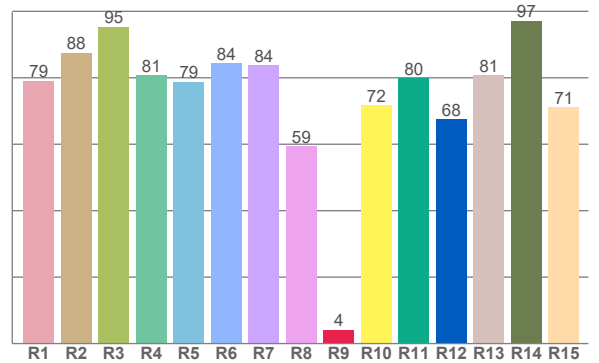




TM30: 82.6



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	87.6	95.3	80.7	78.8	84.3	83.7	59.3	4.1	71.6	79.9	67.5	80.8	97.2	71.2

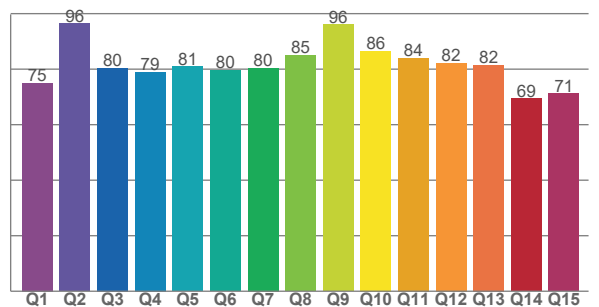
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.4	79.6	73.5	80.9	88.6	88.0	80.9	90.0	87.0	84.2	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
74.9	96.5	80.4	78.9	80.9	79.6	80.5	85.0	96.1	86.5	84.1	82.2	81.6	69.4	71.2

CQS: 80.3



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	Δuv
3020 K	81.1	4.1	82.6	98.0	80.3	0.437	0.406	0.250	0.348	0.0007

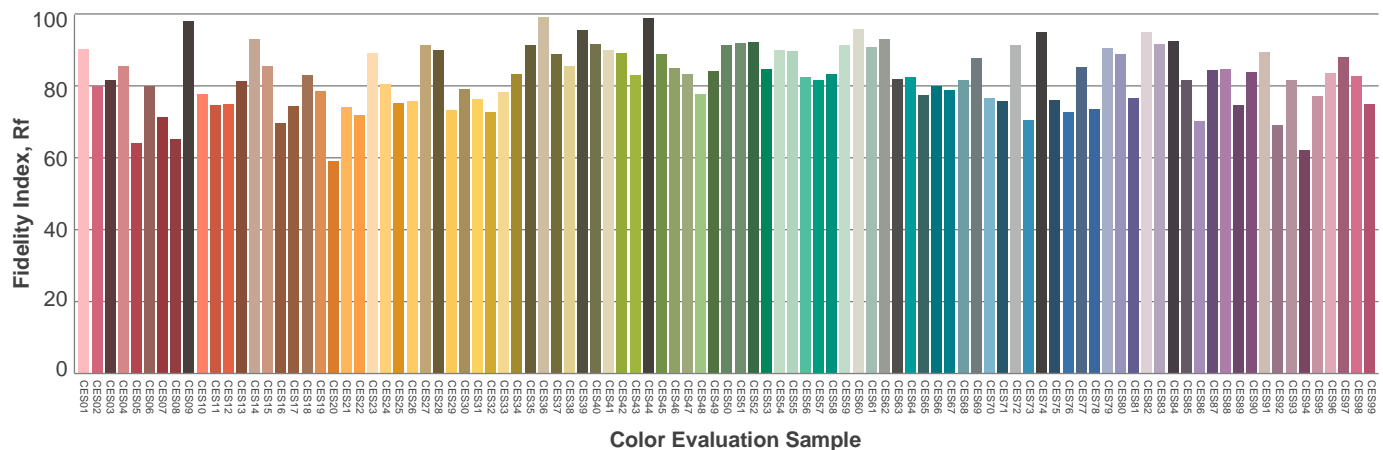
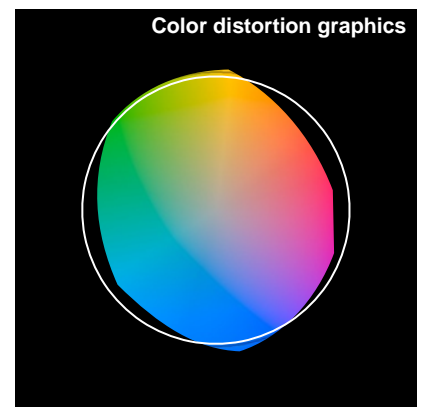
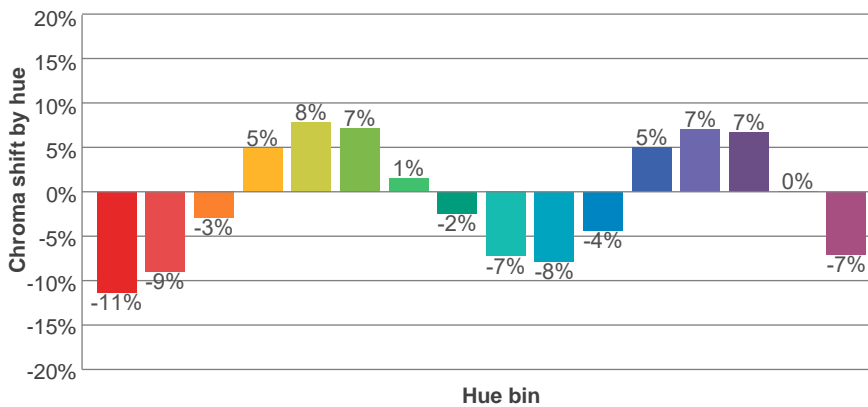
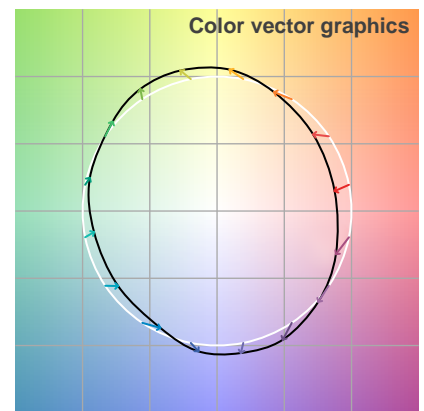
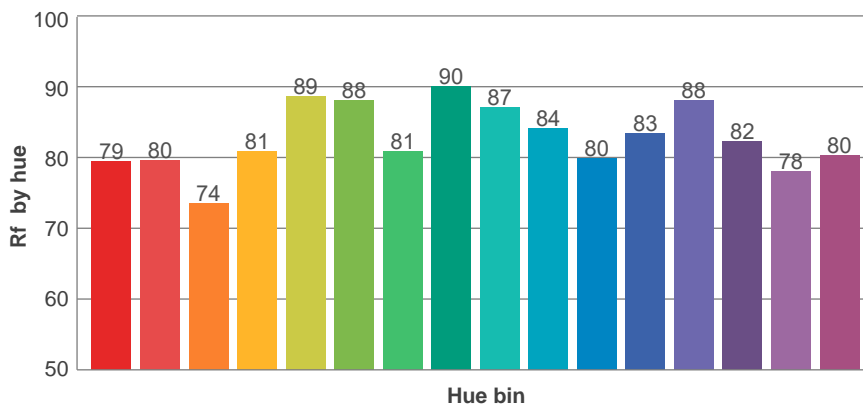
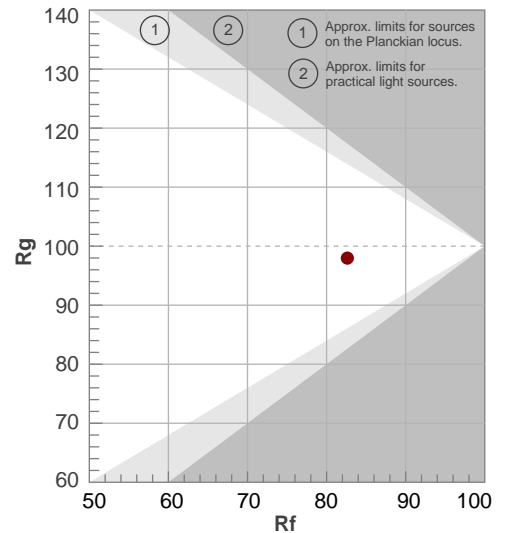
Rf 82.6

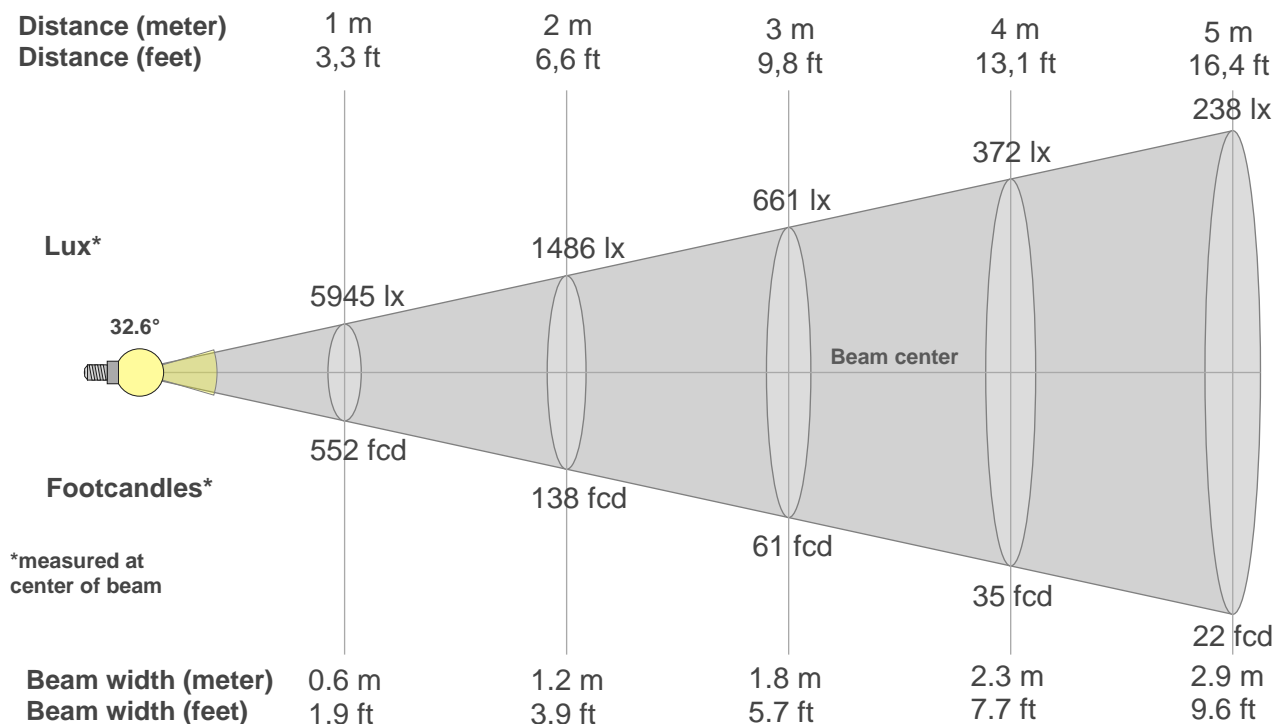
Fidelity index Rf

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	87	-7%	-2%
10	84	-8%	5%
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
5945lx	1486lx	661lx	372lx	238lx	165lx	121lx	93lx	73lx	59lx	49lx	41lx	35lx	30lx	26lx	23lx	21lx	18lx	16lx	15lx
552.3fcd	138.1fcd	61.4fcd	34.5fcd	22.1fcd	15.3fcd	11.3fcd	8.6fcd	6.8fcd	5.5fcd	4.6fcd	3.8fcd	3.3fcd	2.8fcd	2.5fcd	2.2fcd	1.9fcd	1.7fcd	1.5fcd	1.4fcd

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°
5945	5893	5743	5485	5077	4536	3919	3278	2657	2095	1614	1196	852	580	380	240	151	97	62	39
100%	99%	97%	92%	85%	76%	66%	55%	45%	35%	27%	20%	14%	10%	6%	4%	3%	2%	1%	1%

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°
5945	5891	5742	5506	5187	4799	4359	3894	3414	2900	2376	1865	1397	1022	731	509	341	220	138	84
100%	99%	97%	93%	87%	81%	73%	65%	57%	49%	40%	31%	24%	17%	12%	9%	6%	4%	2%	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°
5945	5893	5743	5485	5077	4536	3919	3278	2657	2095	1614	1196	852	580	380	240	151	97	62	39
100%	99%	97%	92%	85%	76%	66%	55%	45%	35%	27%	20%	14%	10%	6%	4%	3%	2%	1%	1%

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°
5945	5891	5742	5506	5187	4799	4359	3894	3414	2900	2376	1865	1397	1022	731	509	341	220	138	84
100%	99%	97%	93%	87%	81%	73%	65%	57%	49%	40%	31%	24%	17%	12%	9%	6%	4%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.6°	55.2°	67.9°	99.5%	99.2%