

Light efficiency:

52 Lumen/Watt

Light quality:

CRI: 81.4

Color temperature:

3030 K

Output: 1980 lm

Peak: 2754 cd

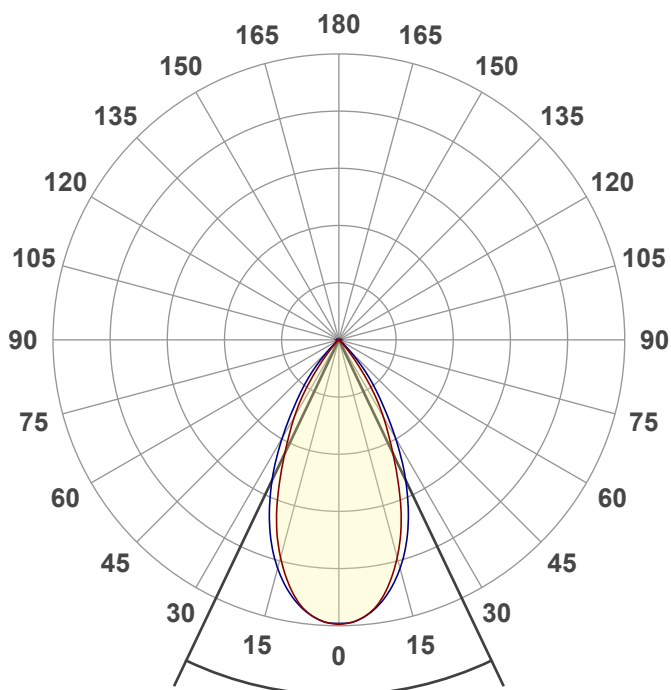
Power: 38.4 W

PF: 0.99



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

Date and time:  
12/16/2021 2:24:08 PM



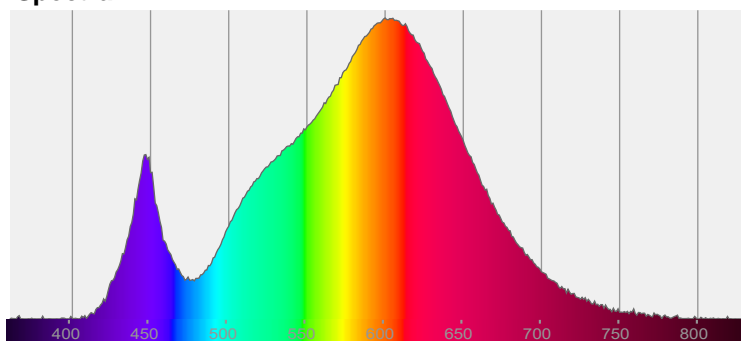
Beam angle

50.9°

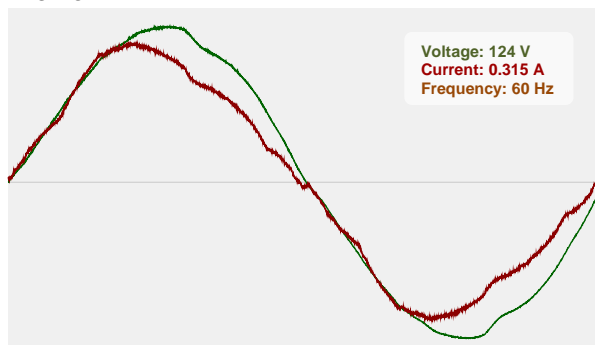


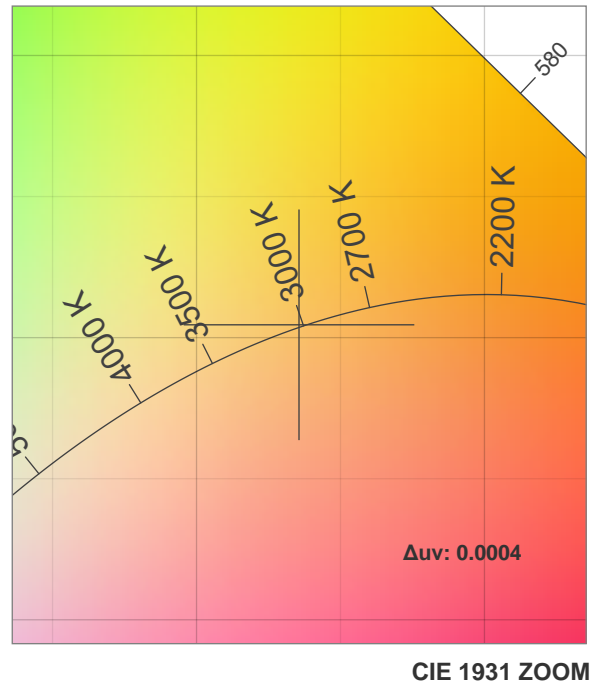
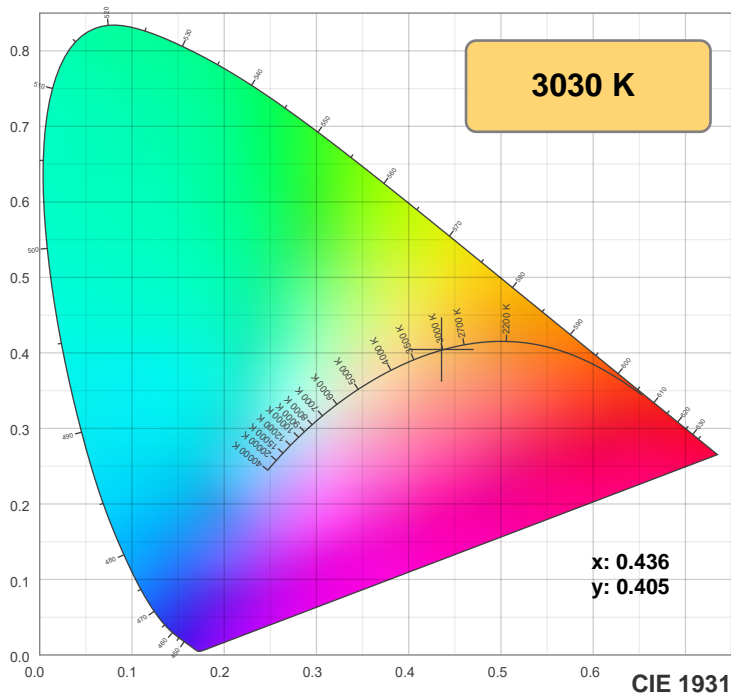
CIE 1931  
x: 0.436  
y: 0.405

Spectra

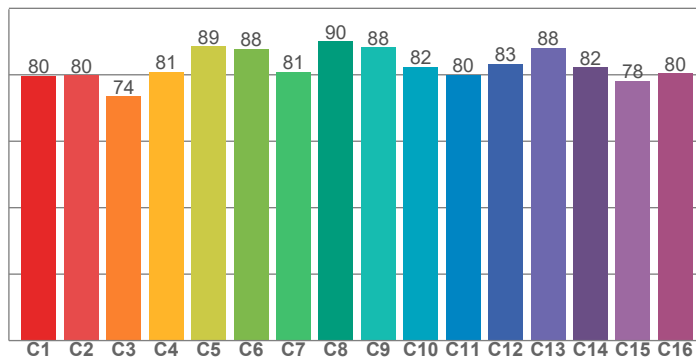


Power

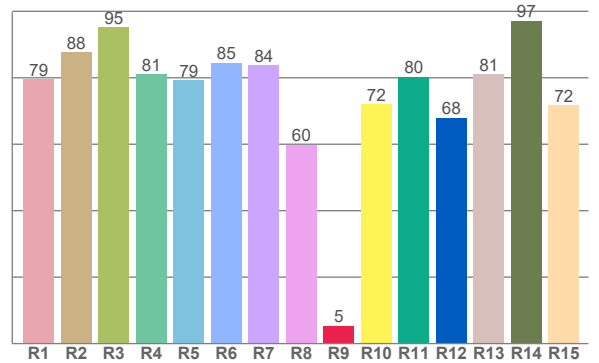




TM30: 82.7



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
79.5	87.8	95.3	81.0	79.2	84.6	83.8	59.8	5.3	72.1	80.3	68.0	81.1	97.2	71.6

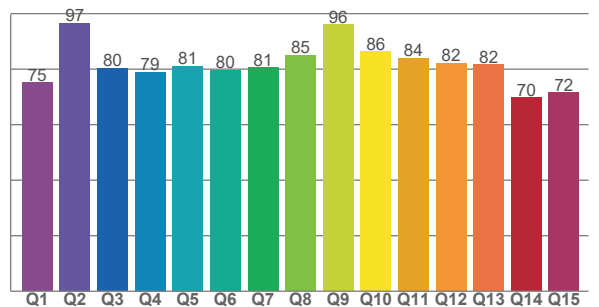
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.7	79.8	73.5	80.8	88.5	87.8	80.9	90.0	88.2	82.4	79.9	83.3	88.1	82.3	78.2	80.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.2	96.6	80.3	79.0	81.1	79.8	80.5	85.0	96.1	86.4	84.0	82.2	81.7	69.8	71.5

CQS: 80.5



## 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	$\Delta uv$
3030 K	81.4	5.3	82.7	98.3	80.5	0.436	0.405	0.250	0.348	0.0004

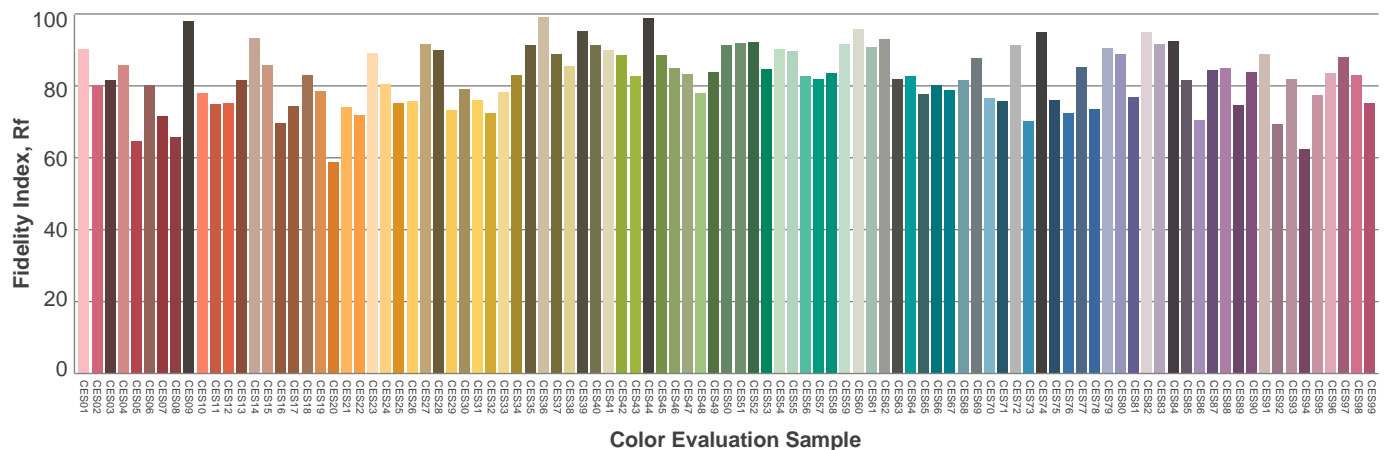
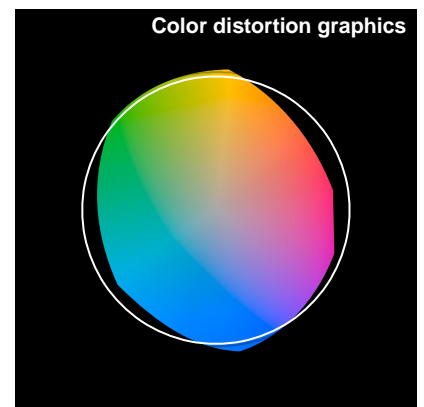
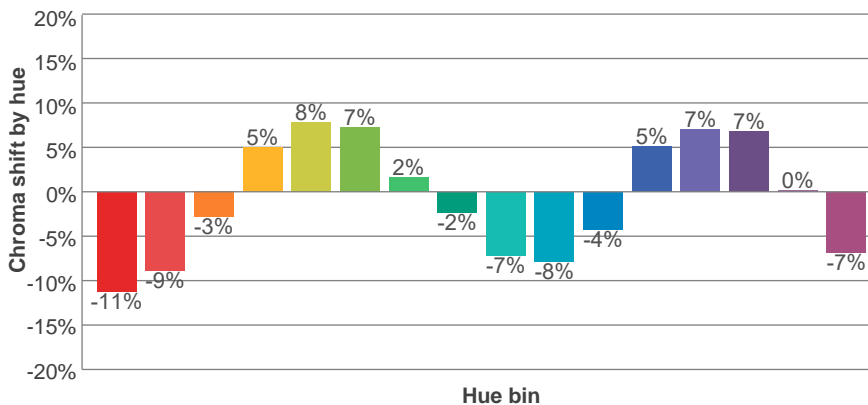
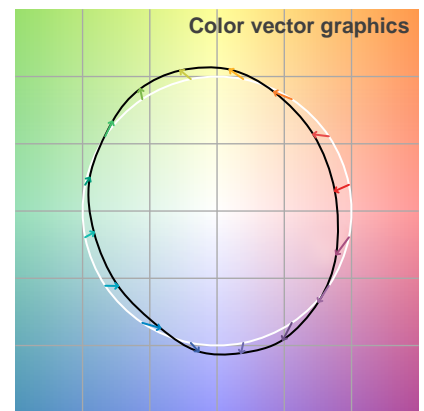
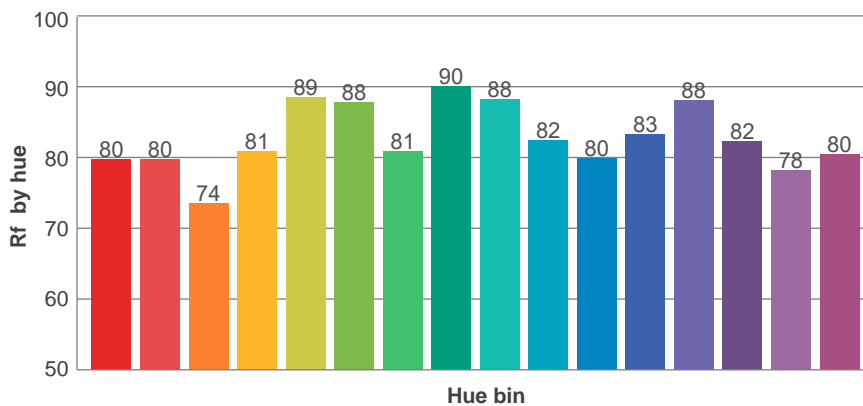
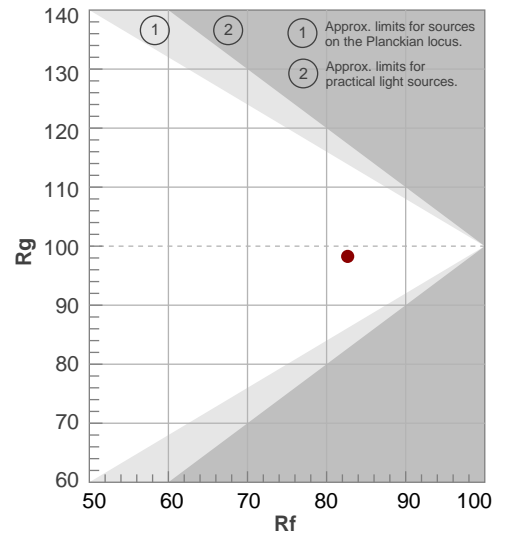
**Rf 82.7**

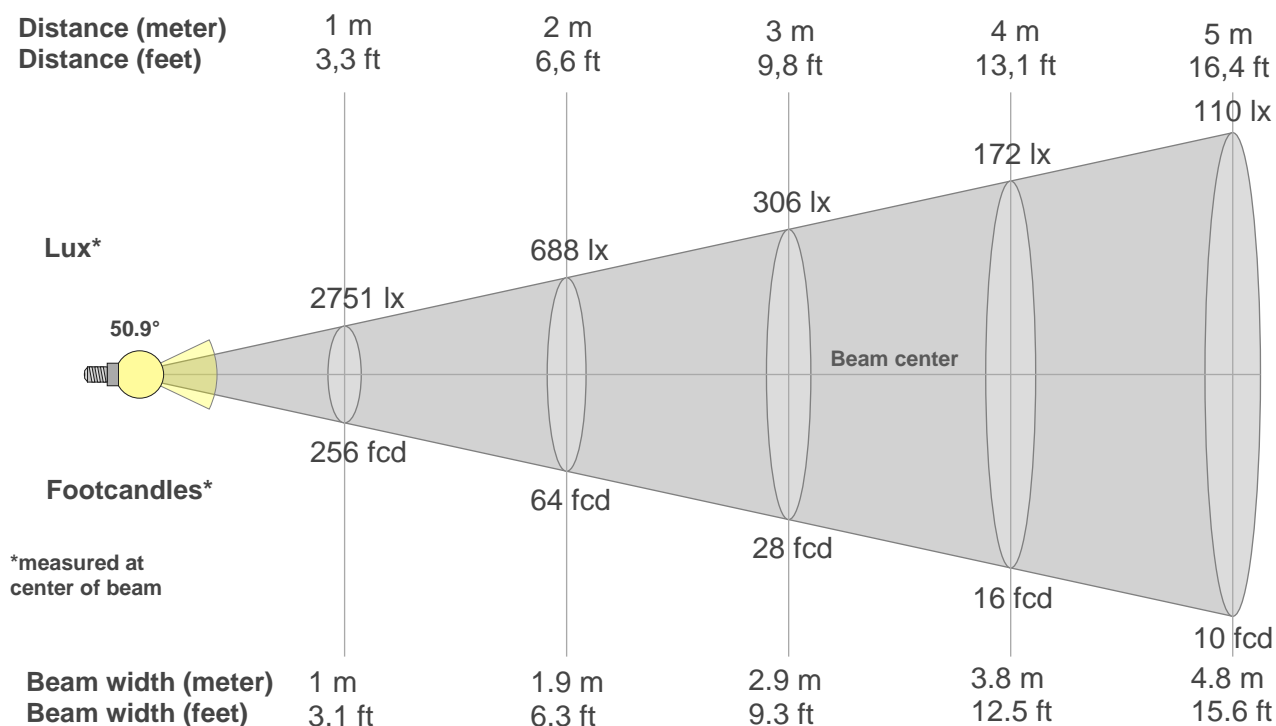
Fidelity index Rf

**Rg 98.3**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-3%
2	80	-9%	8%
3	74	-3%	14%
4	81	5%	11%
5	89	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	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
2751lx	688lx	306lx	172lx	110lx	76lx	56lx	43lx	34lx	28lx	23lx	19lx	16lx	14lx	12lx	11lx	10lx	8lx	8lx	7lx
255.6fcd	63.9fcd	28.4fcd	16fcd	10.2fcd	7.1fcd	5.2fcd	4fcd	3.2fcd	2.6fcd	2.1fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd

#### 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°
2751	2741	2716	2671	2604	2505	2386	2252	2104	1943	1759	1557	1358	1174	1010	862	717	563	409	272
100%	100%	99%	97%	95%	91%	87%	82%	76%	71%	64%	57%	49%	43%	37%	31%	26%	20%	15%	10%

#### 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°
2751	2740	2714	2672	2614	2540	2450	2345	2227	2097	1952	1796	1628	1457	1277	1097	924	764	633	512
100%	100%	99%	97%	95%	92%	89%	85%	81%	76%	71%	65%	59%	53%	46%	40%	34%	28%	23%	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°
2751	2741	2716	2671	2604	2505	2386	2252	2104	1943	1759	1557	1358	1174	1010	862	717	563	409	272
100%	100%	99%	97%	95%	91%	87%	82%	76%	71%	64%	57%	49%	43%	37%	31%	26%	20%	15%	10%

#### 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°
2751	2740	2714	2672	2614	2540	2450	2345	2227	2097	1952	1796	1628	1457	1277	1097	924	764	633	512
100%	100%	99%	97%	95%	92%	89%	85%	81%	76%	71%	65%	59%	53%	46%	40%	34%	28%	23%	19%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120° cone	Intensity ratio in 90° cone
50.9°	80.4°	90.6°	99.6%	98.6%