

Light efficiency:

62 Lumen/Watt

Light quality:

CRI: 81.4

Color temperature:

3037 K

Output: 2362 lm

Peak: 3738 cd

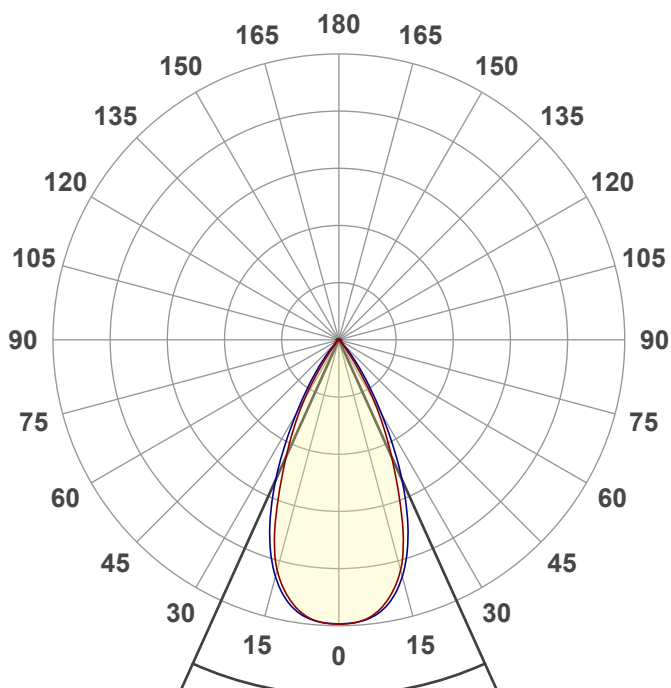
Power: 38.3 W

PF: 0.99



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

Date and time:  
12/16/2021 2:42:02 PM



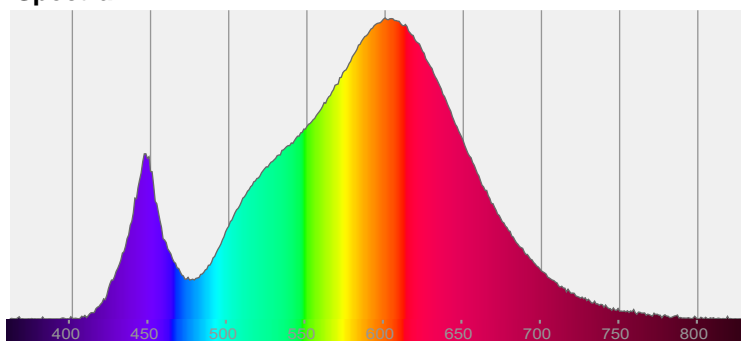
Beam angle

48.6°

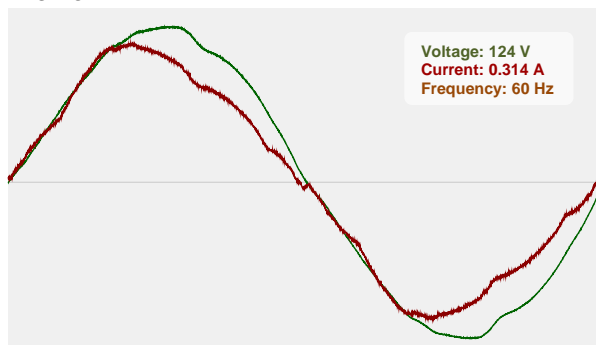


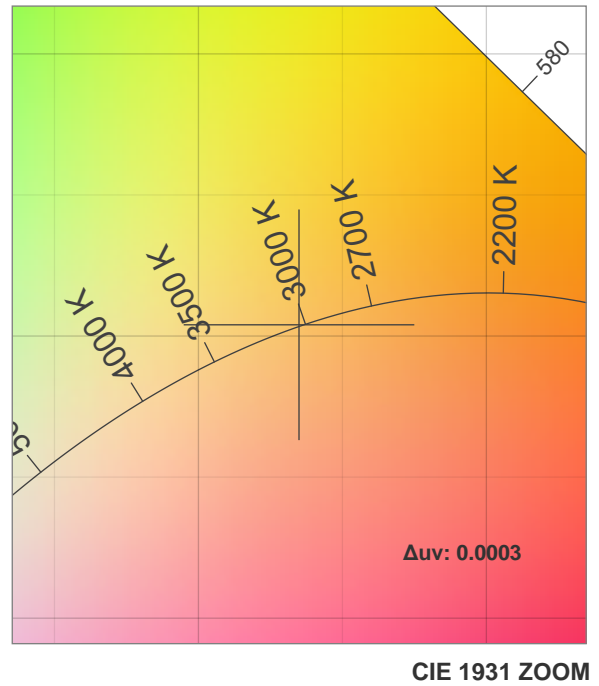
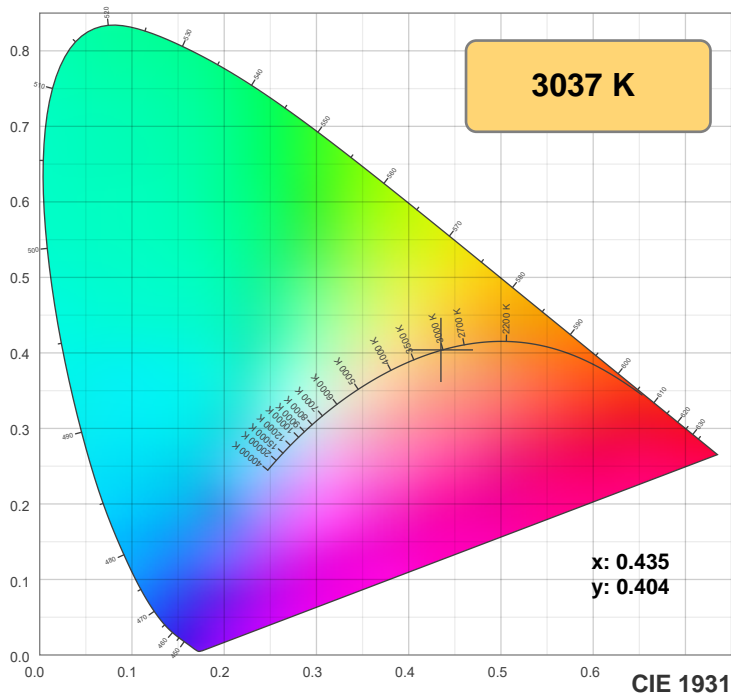
CIE 1931  
x: 0.435  
y: 0.404

Spectra

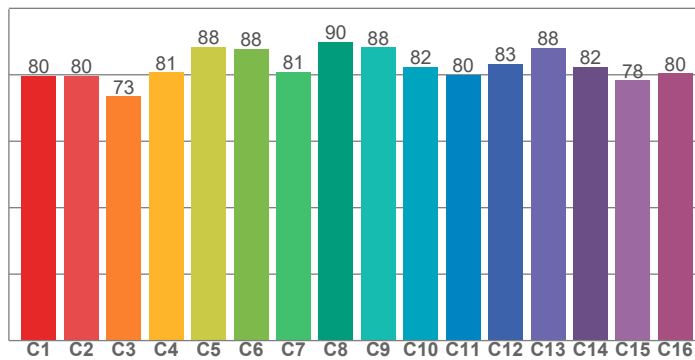


Power

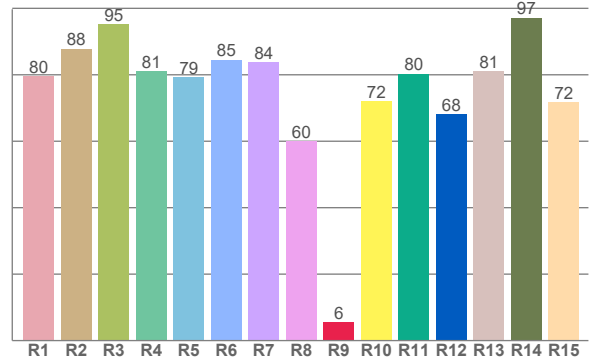




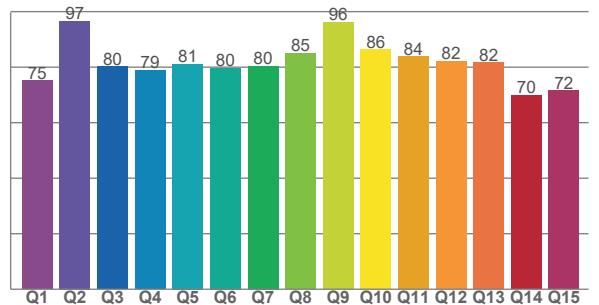
TM30: 82.6



CRI: 81.4 (R1-R8)



CQS: 80.4



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	79.3	84.6	83.8	59.9	5.6	72.1	80.3	68.1	81.1	97.1	71.8

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	79.7	73.4	80.7	88.4	87.7	80.9	90.0	88.2	82.4	79.9	83.3	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	96.6	80.2	78.9	81.1	79.7	80.5	85.0	96.1	86.3	83.9	82.1	81.6	69.9	71.6

## 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
3037 K	81.4	5.6	82.6	98.3	80.4	0.435	0.404	0.249	0.347	0.0003

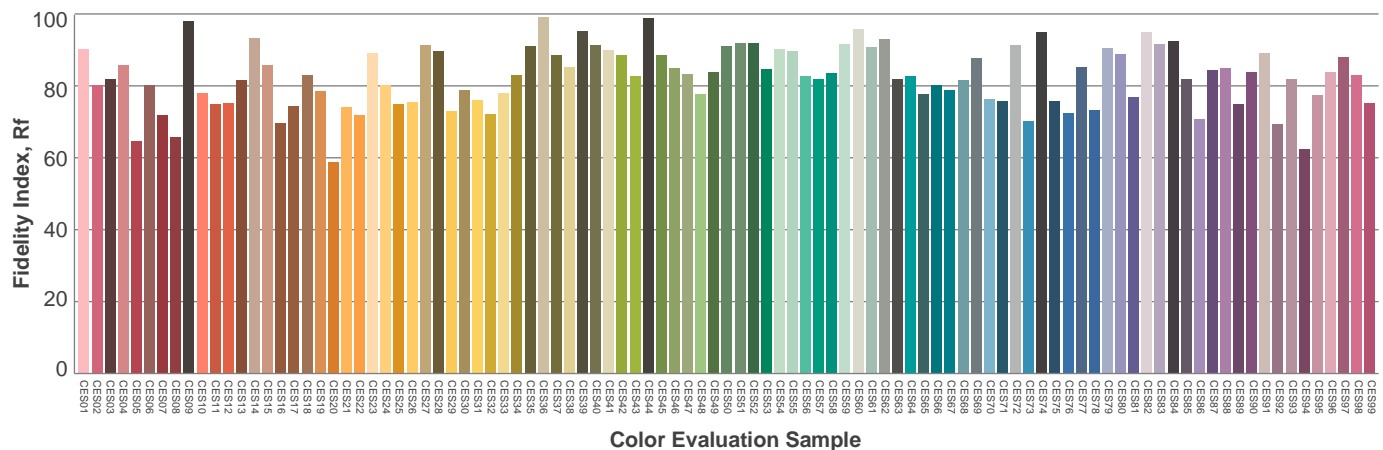
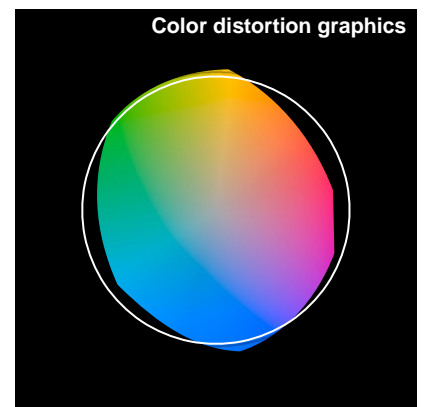
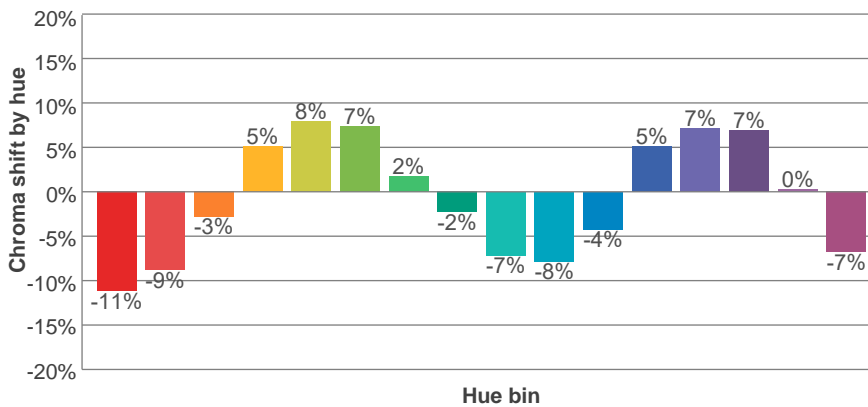
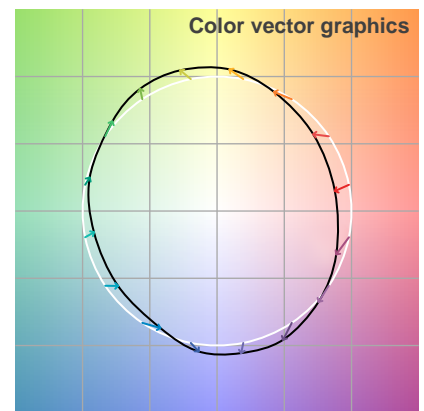
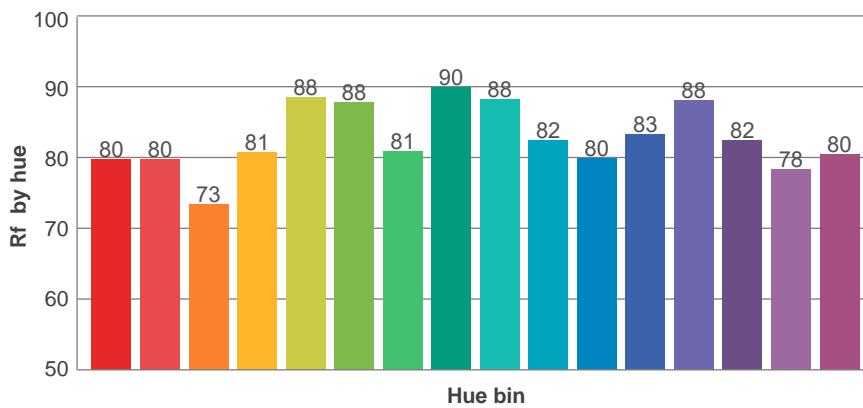
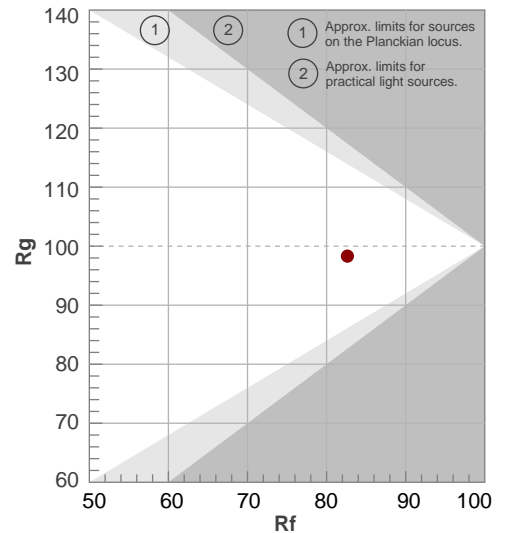
**Rf 82.6**

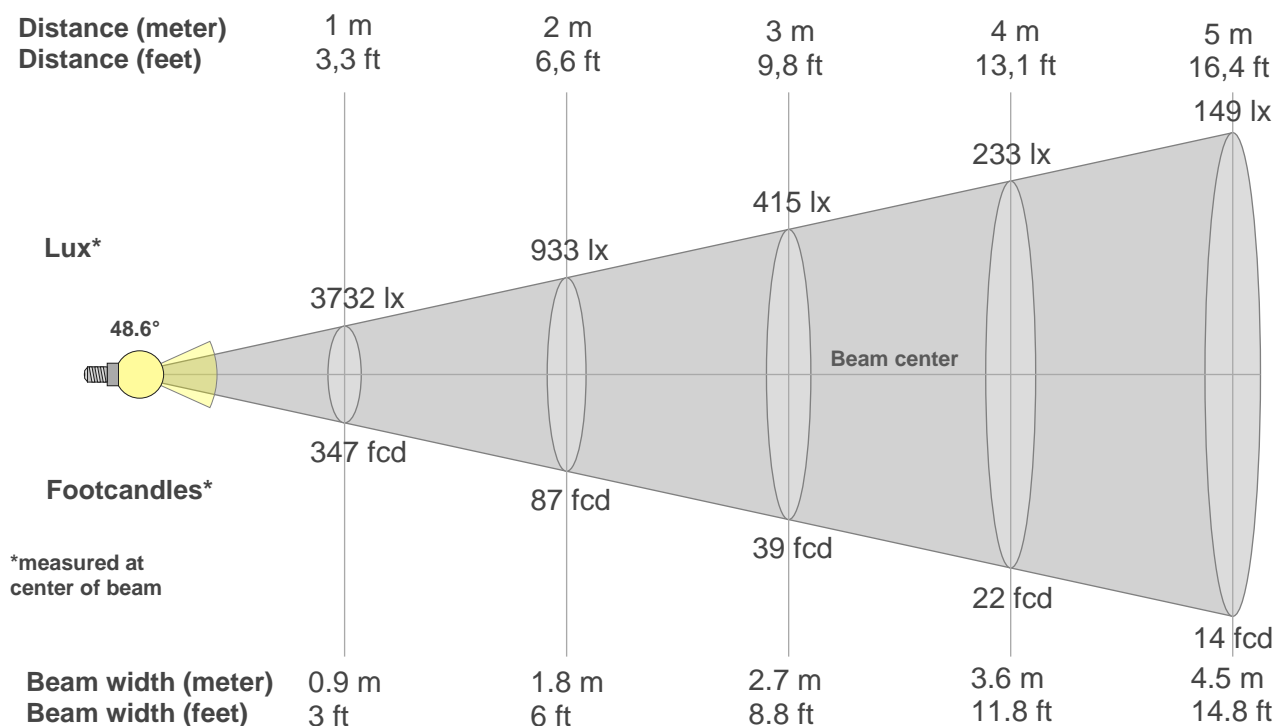
Fidelity index Rf

**Rg 98.3**

Gammut index Rg

Hue Bin	R <sub>f</sub>	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	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
3732lx	933lx	415lx	233lx	149lx	104lx	76lx	58lx	46lx	37lx	31lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	10lx	9lx
346.7fcd	86.7fcd	38.5fcd	21.7fcd	13.9fcd	9.6fcd	7.1fcd	5.4fcd	4.3fcd	3.5fcd	2.9fcd	2.4fcd	2.1fcd	1.8fcd	1.5fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

### 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°
3732	3728	3712	3675	3606	3507	3380	3221	3020	2732	2393	2049	1729	1442	1174	912	657	426	243	137
100%	100%	99%	98%	97%	94%	91%	86%	81%	73%	64%	55%	46%	39%	31%	24%	18%	11%	7%	4%

### 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°
3732	3725	3711	3683	3636	3555	3443	3298	3121	2909	2653	2366	2060	1742	1417	1121	871	661	485	338
100%	100%	99%	99%	97%	95%	92%	88%	84%	78%	71%	63%	55%	47%	38%	30%	23%	18%	13%	9%

### 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°
3732	3728	3712	3675	3606	3507	3380	3221	3020	2732	2393	2049	1729	1442	1174	912	657	426	243	137
100%	100%	99%	98%	97%	94%	91%	86%	81%	73%	64%	55%	46%	39%	31%	24%	18%	11%	7%	4%

### 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°
3732	3725	3711	3683	3636	3555	3443	3298	3121	2909	2653	2366	2060	1742	1417	1121	871	661	485	338
100%	100%	99%	99%	97%	95%	92%	88%	84%	78%	71%	63%	55%	47%	38%	30%	23%	18%	13%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48.6°	72.2°	82.7°	99.7%	99.3%