

Light efficiency:

47 Lumen/Watt

Light quality:

CRI: 81.4

Color temperature:

3056 K

Output: 1782 lm

Peak: 3467 cd

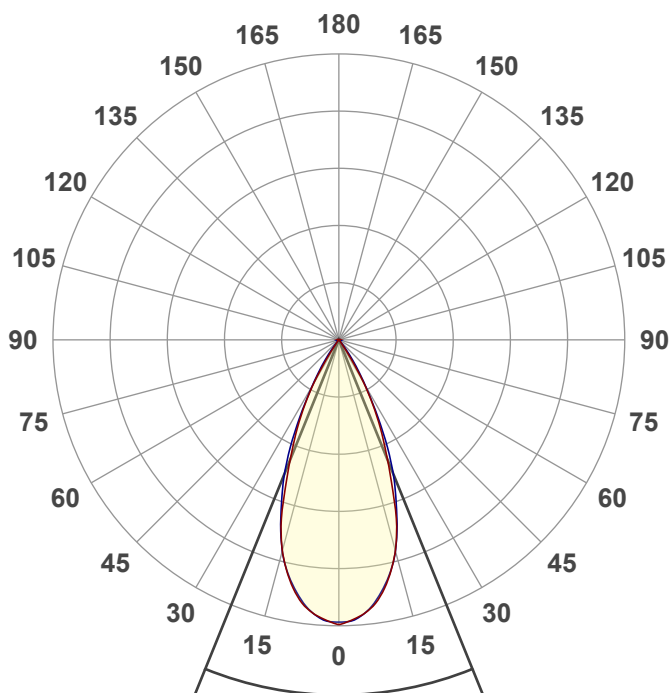
Power: 38.3 W

PF: 0.99



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

Date and time:  
12/16/2021 9:34:30 AM



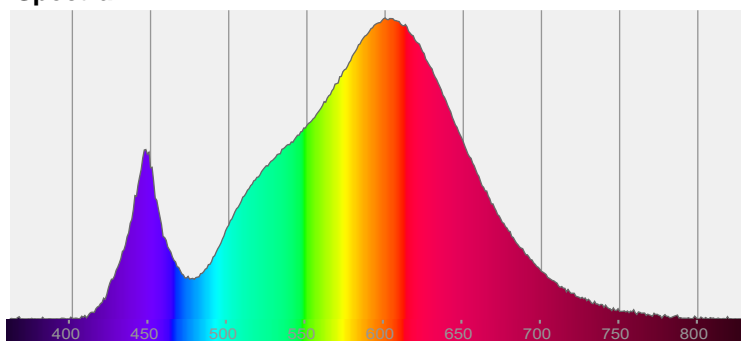
Beam angle

44.2°

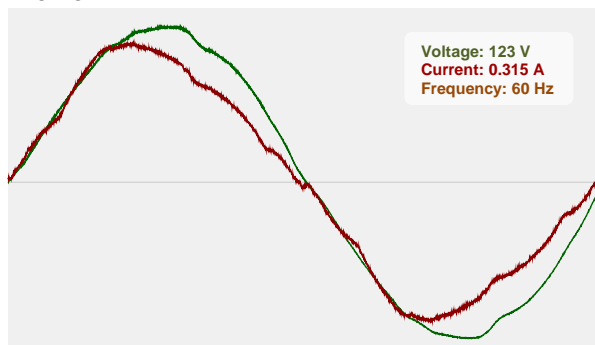


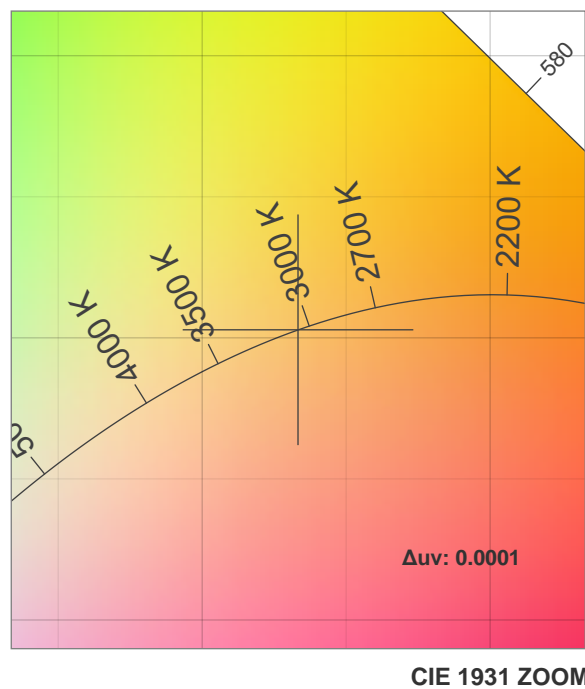
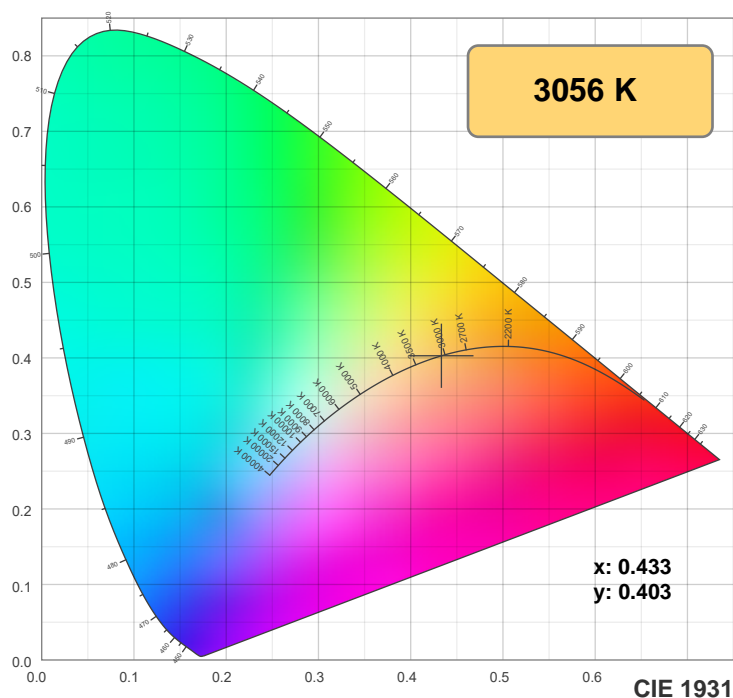
CIE 1931  
x: 0.433  
y: 0.403

Spectra

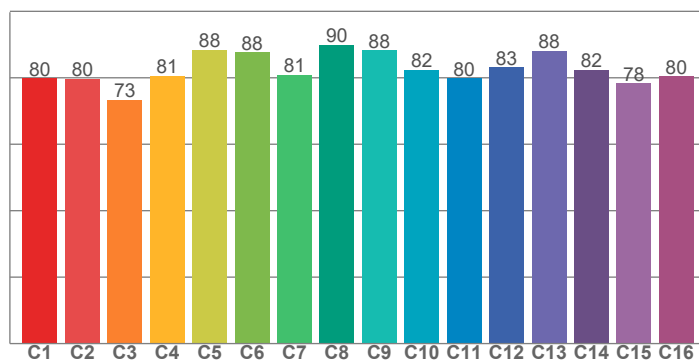


Power

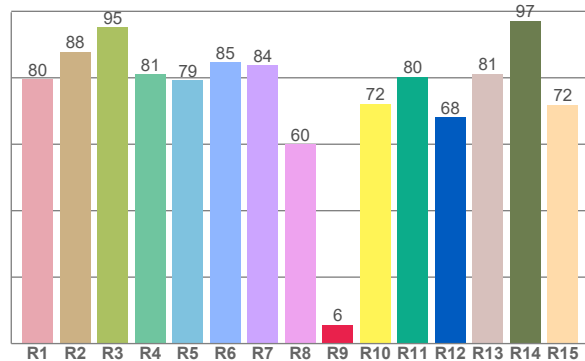




TM30: 82.6



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	81.0	79.4	84.6	83.8	60.0	5.7	72.1	80.3	68.2	81.2	97.1	71.9

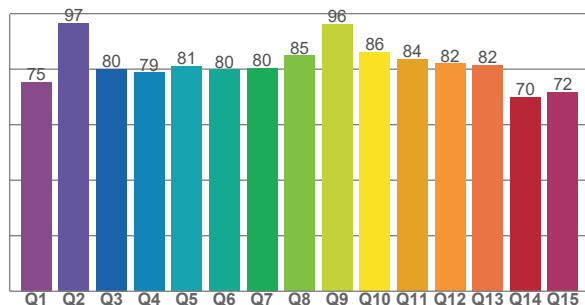
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.8	79.7	73.3	80.6	88.4	87.7	80.9	90.0	88.3	82.4	79.8	83.2	88.1	82.4	78.3	80.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.3	96.7	80.0	78.7	81.1	79.8	80.5	84.9	96.2	86.2	83.7	82.0	81.5	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	$\Delta uv$
3056 K	81.4	5.7	82.6	98.4	80.4	0.433	0.403	0.249	0.347	0.0001

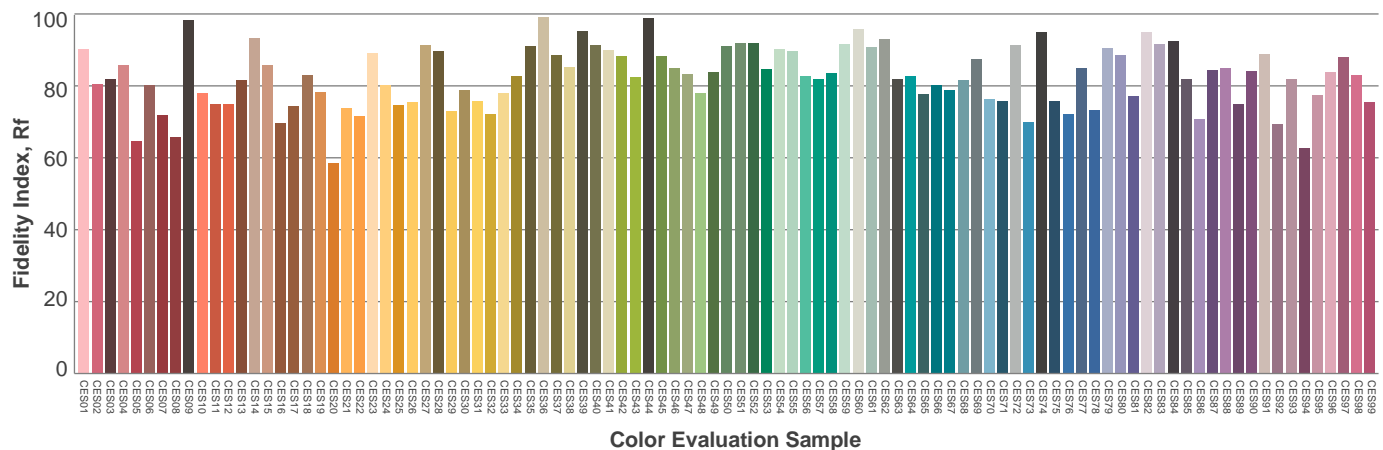
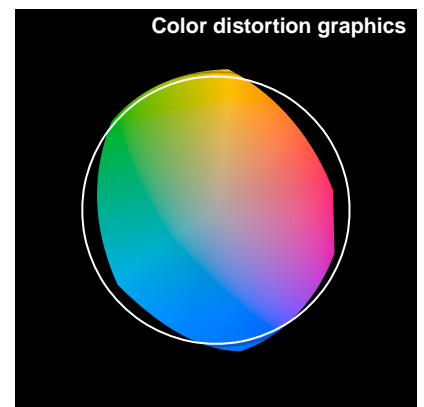
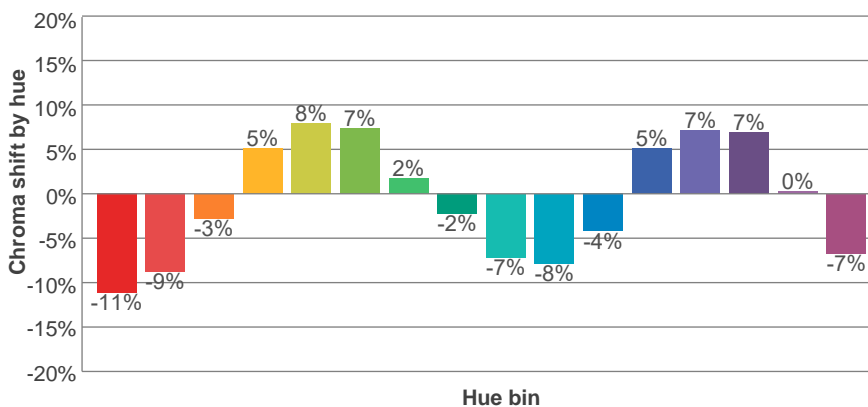
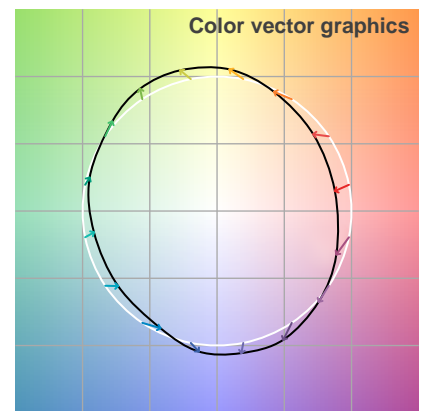
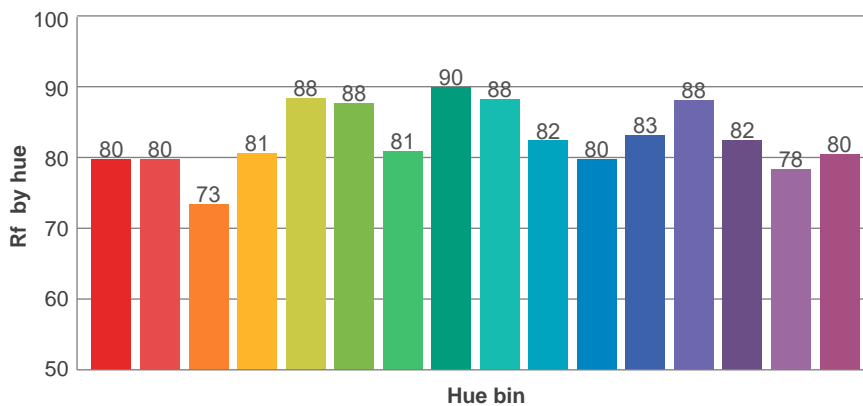
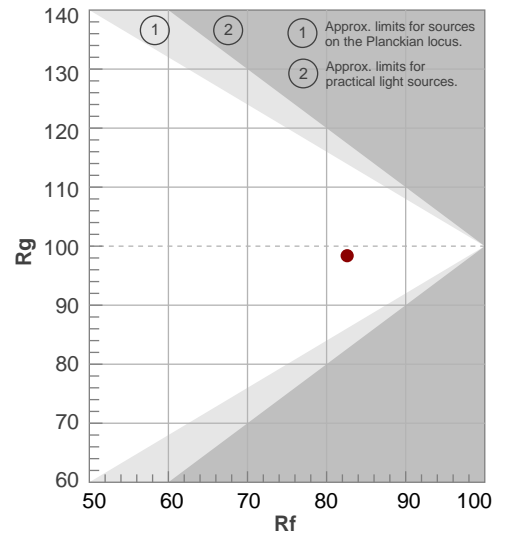
**Rf 82.6**

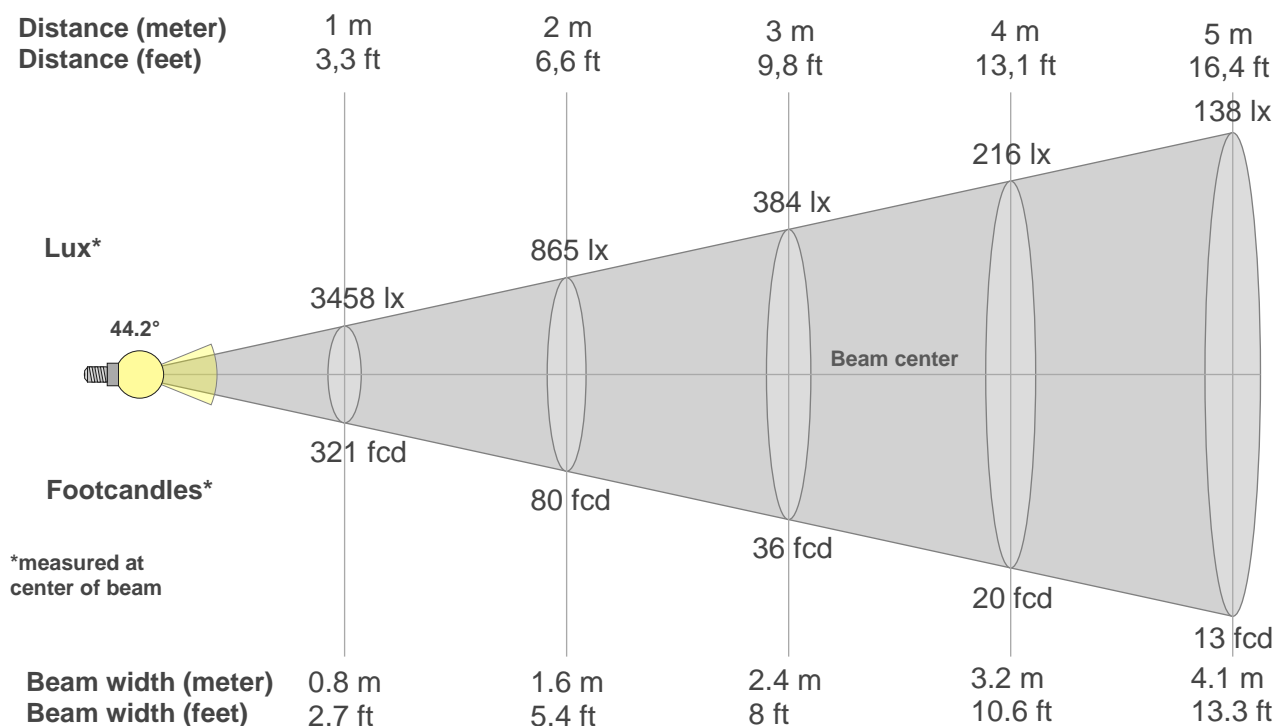
Fidelity index Rf

**Rg 98.4**

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%	6%
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
3458lx	865lx	384lx	216lx	138lx	96lx	71lx	54lx	43lx	35lx	29lx	24lx	20lx	18lx	15lx	14lx	12lx	11lx	10lx	9lx
321.3fcd	80.3fcd	35.7fcd	20.1fcd	12.9fcd	8.9fcd	6.6fcd	5fcd	4fcd	3.2fcd	2.7fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd

#### 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°
3458	3436	3388	3327	3241	3110	2949	2761	2537	2260	1903	1598	1336	1093	852	615	365	175	65	26
100%	99%	98%	96%	94%	90%	85%	80%	73%	65%	55%	46%	39%	32%	25%	18%	11%	5%	2%	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°
3458	3438	3394	3320	3216	3086	2941	2765	2545	2294	2030	1776	1488	1182	895	654	469	315	192	99
100%	99%	98%	96%	93%	89%	85%	80%	74%	66%	59%	51%	43%	34%	26%	19%	14%	9%	6%	3%

#### 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°
3458	3436	3388	3327	3241	3110	2949	2761	2537	2260	1903	1598	1336	1093	852	615	365	175	65	26
100%	99%	98%	96%	94%	90%	85%	80%	73%	65%	55%	46%	39%	32%	25%	18%	11%	5%	2%	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°
3458	3438	3394	3320	3216	3086	2941	2765	2545	2294	2030	1776	1488	1182	895	654	469	315	192	99
100%	99%	98%	96%	93%	89%	85%	80%	74%	66%	59%	51%	43%	34%	26%	19%	14%	9%	6%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
44.2°	66.4°	74.5°	99.6%	99.5%