

Light efficiency:

40 Lumen/Watt

Light quality:

CRI: 83.9

Color temperature:

2903 K

Output: 1411 lm

Peak: 2172 cd

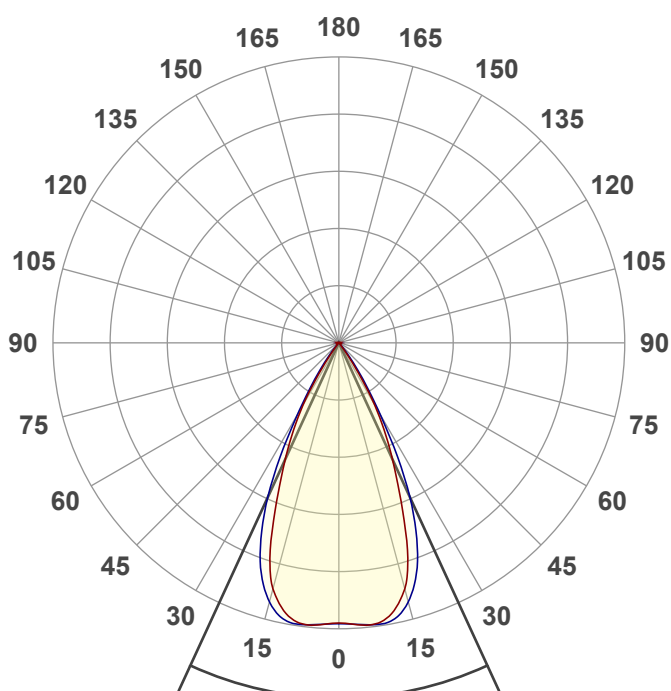
Power: 35.4 W

PF: 0.98



NU4-RAPH-XTM09-20LM-30K-83-50D-NL-WH

Date and time:
1/4/2022 11:12:39 AM



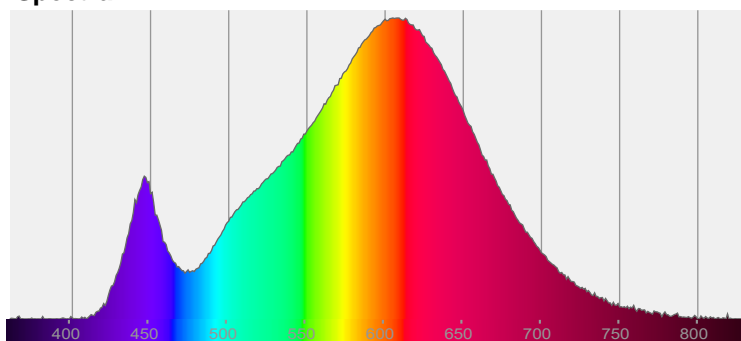
Beam angle

49.4°

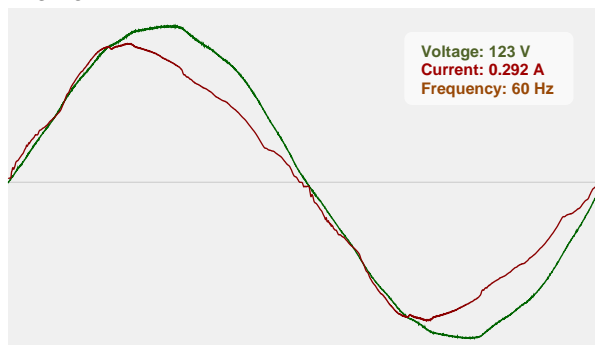


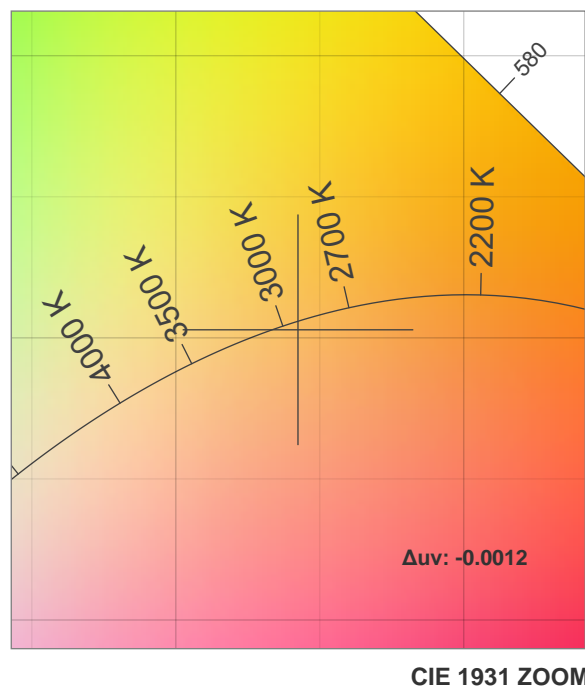
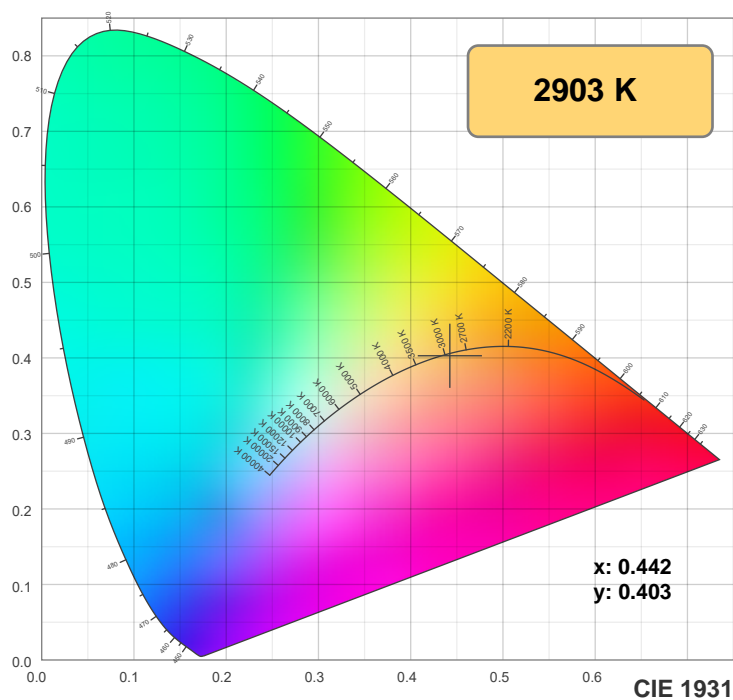
CIE 1931
x: 0.442
y: 0.403

Spectra

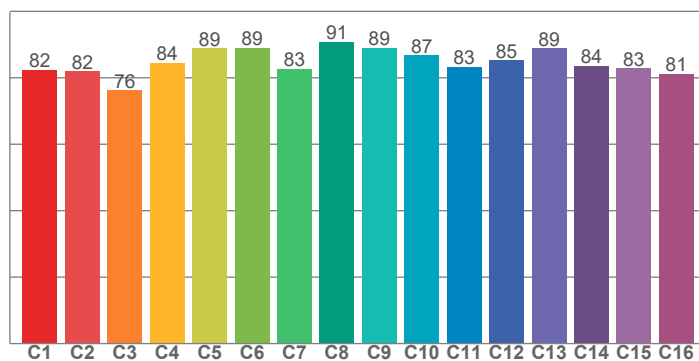


Power

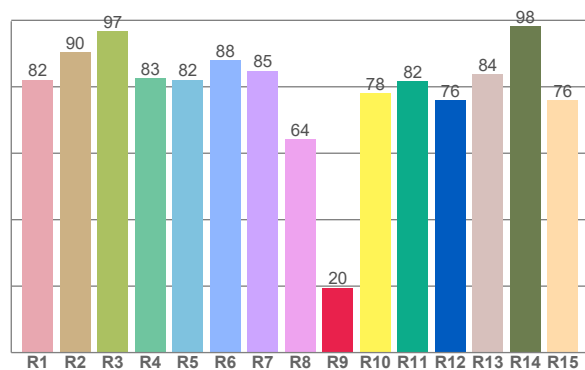




TM30: 84.7



CRI: 83.9 (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
82.2	90.4	96.8	82.6	82.1	88.0	84.8	64.3	19.5	78.1	81.7	75.9	83.8	98.2	76.0

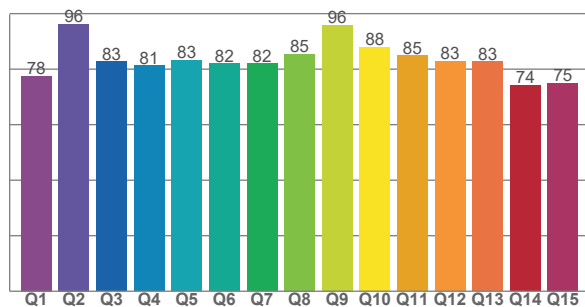
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.3	82.0	76.2	84.5	88.8	89.0	82.8	90.9	89.0	86.8	83.3	85.3	88.9	83.6	82.9	81.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.6	96.3	82.8	81.2	83.2	82.0	82.1	85.5	95.9	87.9	84.8	82.8	82.8	74.2	75.1

CQS: 82.4



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
2903 K	83.9	19.5	84.7	98.9	82.4	0.442	0.403	0.255	0.348	-0.0012

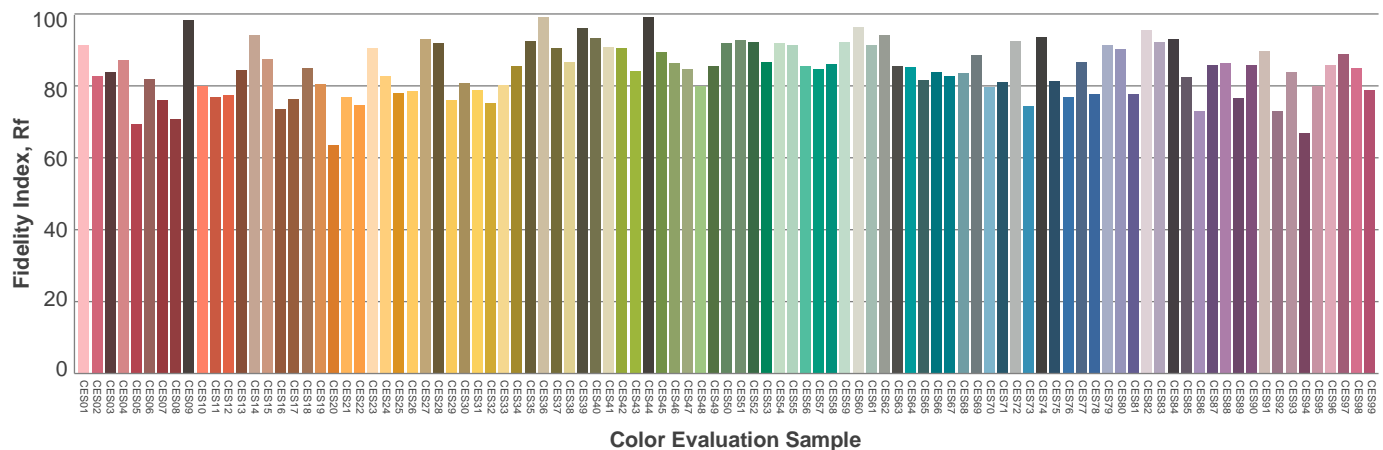
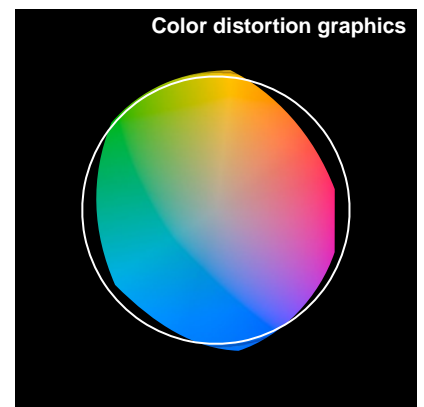
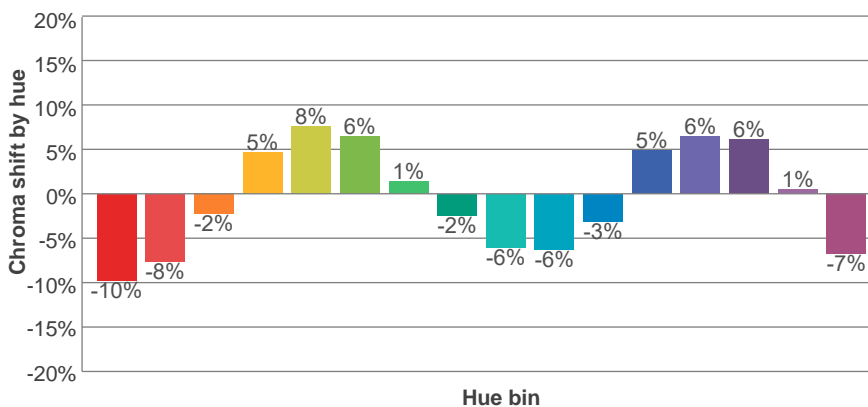
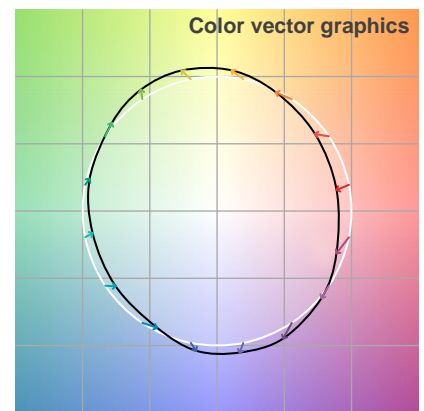
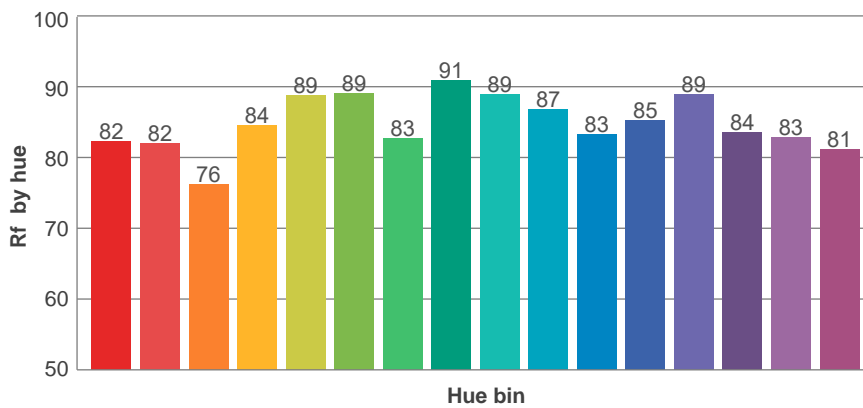
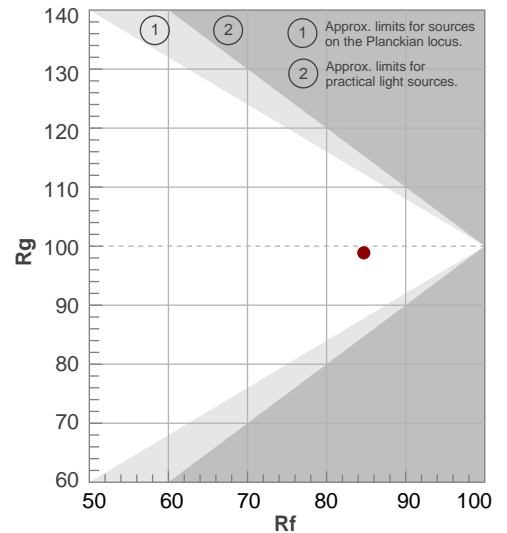
Rf 84.7

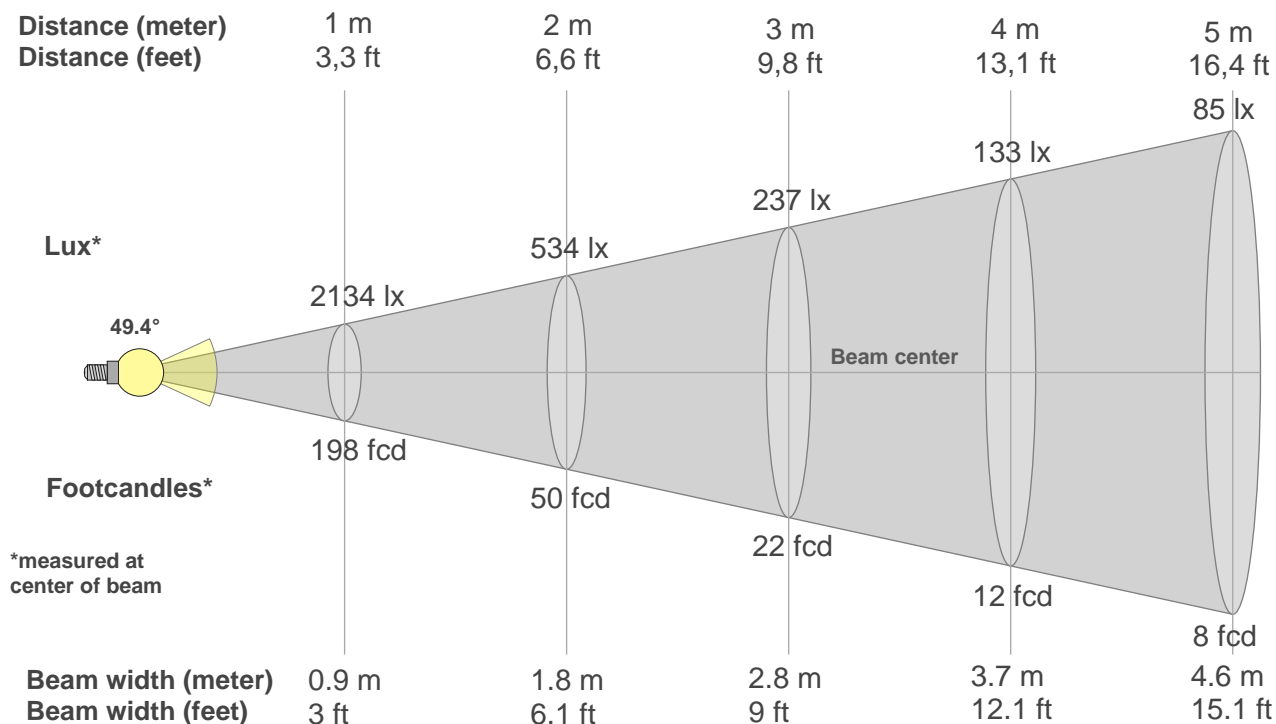
Fidelity index Rf

Rg 98.9

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	13%
4	84	5%	10%
5	89	8%	5%
6	89	6%	-3%
7	83	1%	-11%
8	91	-2%	-5%
9	89	-6%	-2%
10	87	-6%	5%
11	83	-3%	11%
12	85	5%	5%
13	89	6%	-4%
14	84	6%	-12%
15	83	1%	-11%
16	81	-7%	-13%





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
2134lx	534lx	237lx	133lx	85lx	59lx	44lx	33lx	26lx	21lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	7lx	6lx	5lx
198.3fcd	49.6fcd	22fcd	12.4fcd	7.9fcd	5.5fcd	4fcd	3.1fcd	2.4fcd	2fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd

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°
2134	2138	2151	2159	2150	2119	2063	1981	1873	1691	1462	1239	1040	868	703	539	363	208	95	34
100%	100%	101%	101%	101%	99%	97%	93%	88%	79%	69%	58%	49%	41%	33%	25%	17%	10%	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°
2134	2140	2148	2156	2161	2159	2130	2073	1991	1884	1749	1572	1368	1134	881	633	444	302	189	105
100%	100%	101%	101%	101%	101%	100%	97%	93%	88%	82%	74%	64%	53%	41%	30%	21%	14%	9%	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°
2134	2138	2151	2159	2150	2119	2063	1981	1873	1691	1462	1239	1040	868	703	539	363	208	95	34
100%	100%	101%	101%	101%	99%	97%	93%	88%	79%	69%	58%	49%	41%	33%	25%	17%	10%	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°
2134	2140	2148	2156	2161	2159	2130	2073	1991	1884	1749	1572	1368	1134	881	633	444	302	189	105
100%	100%	101%	101%	101%	101%	100%	97%	93%	88%	82%	74%	64%	53%	41%	30%	21%	14%	9%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49.4°	69.4°	76.4°	99.6%	99.3%