

Light efficiency:

46 Lumen/Watt

Light quality:

CRI: 95.4

Color temperature:

3002 K

Output: 853 lm

Peak: 7467 cd

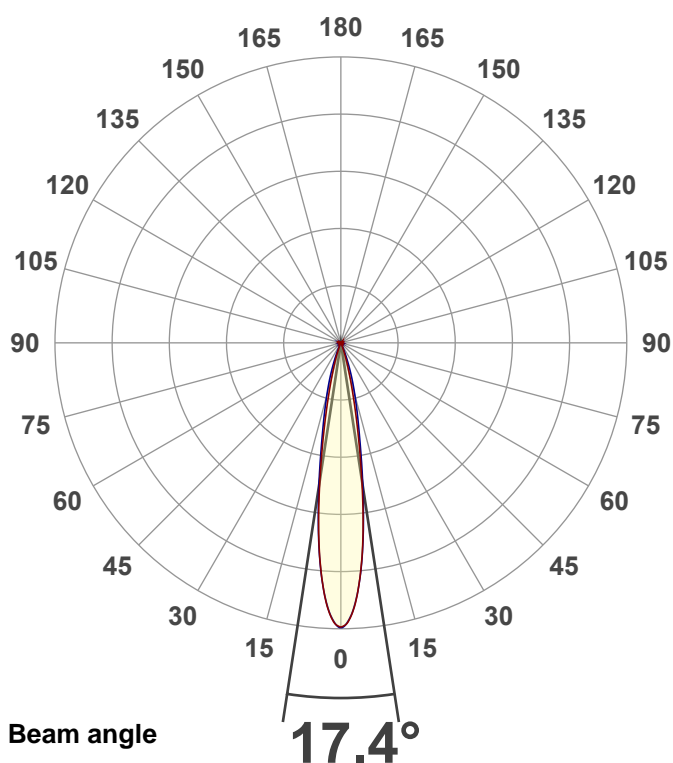
Power: 18.6 W

PF: 0.97



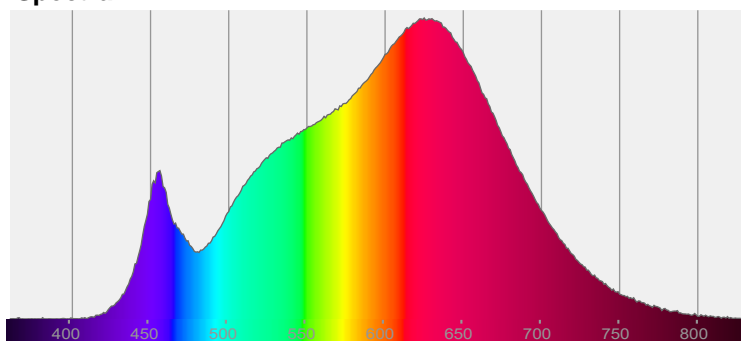
NU4-RAPH-WD-15LM-3018-97-15D-NL-WH

Date and time:
12/22/2021 10:06:47 AM

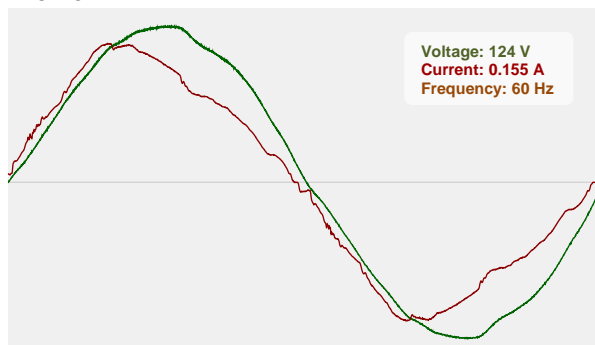


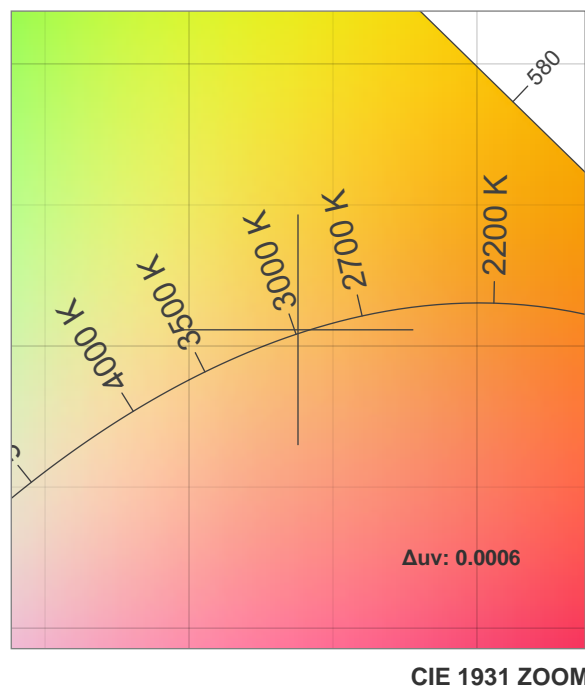
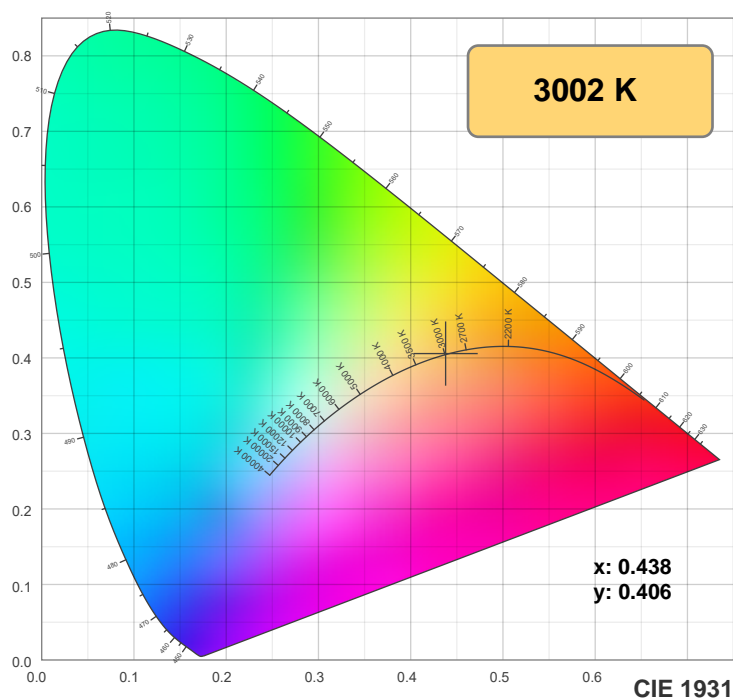
CIE 1931
x: 0.438
y: 0.406

Spectra

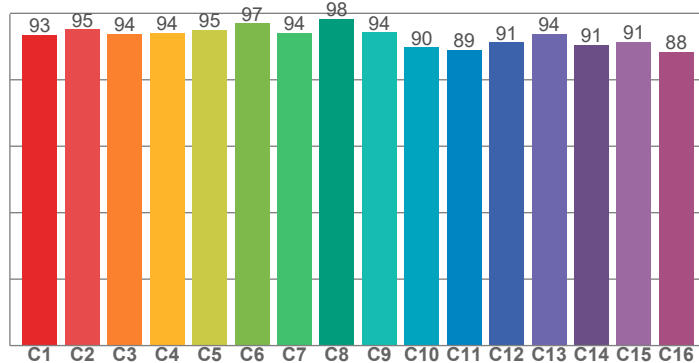


Power

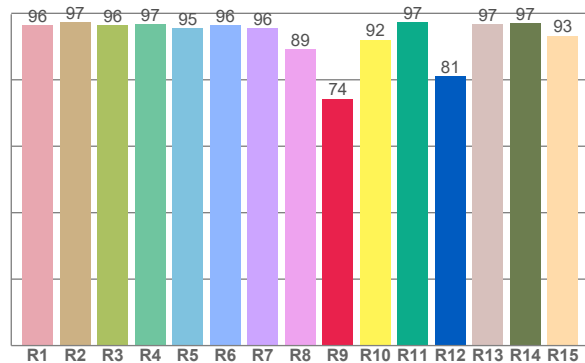




TM30: 93.1



CRI: 95.4 (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
96.4	97.3	96.4	96.6	95.5	96.3	95.6	89.2	74.3	92.1	97.2	81.0	96.8	97.1	93.3

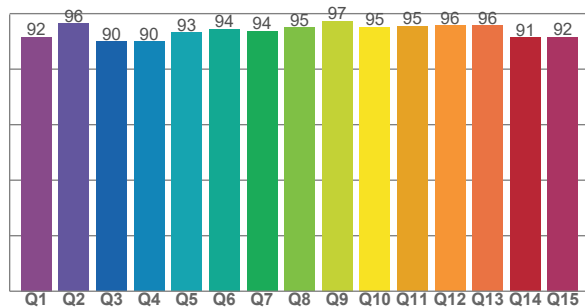
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.5	95.2	93.9	94.1	95.0	97.0	94.1	98.3	94.2	89.8	89.1	91.2	93.9	90.6	91.5	88.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.6	96.4	89.9	89.9	93.1	94.5	93.6	95.0	97.3	95.2	95.5	95.8	95.7	91.4	91.5

CQS: 93.2



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
3002 K	95.4	74.3	93.1	99.6	93.2	0.438	0.406	0.250	0.348	0.0006

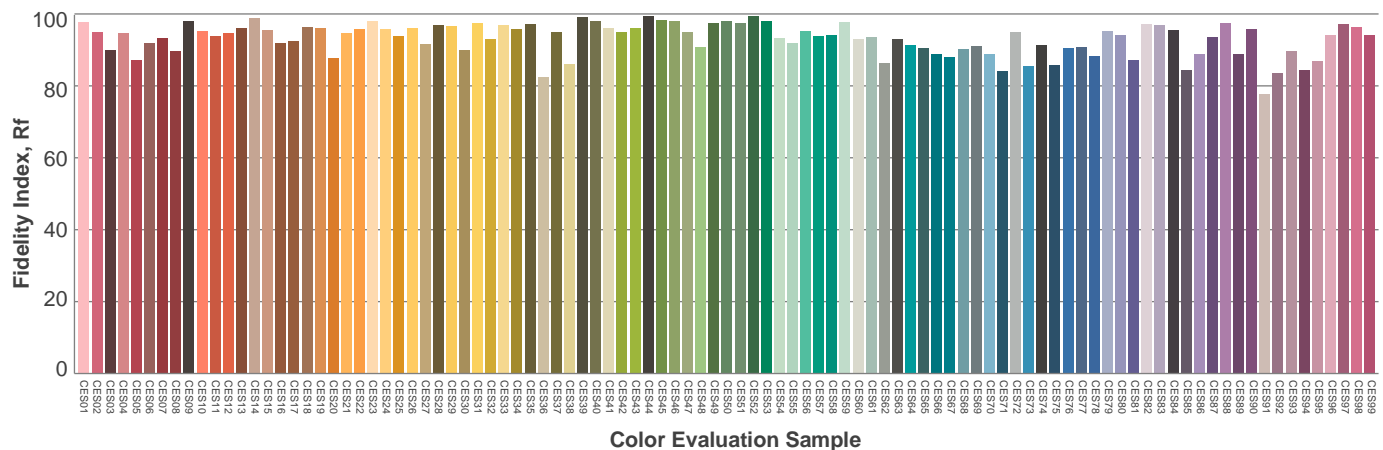
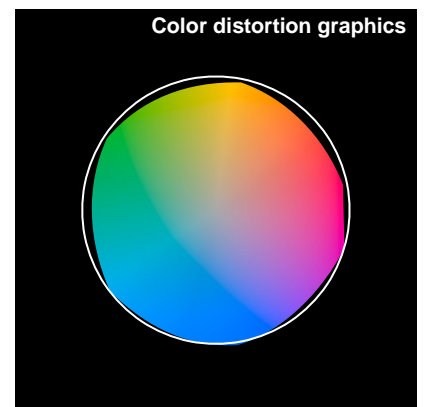
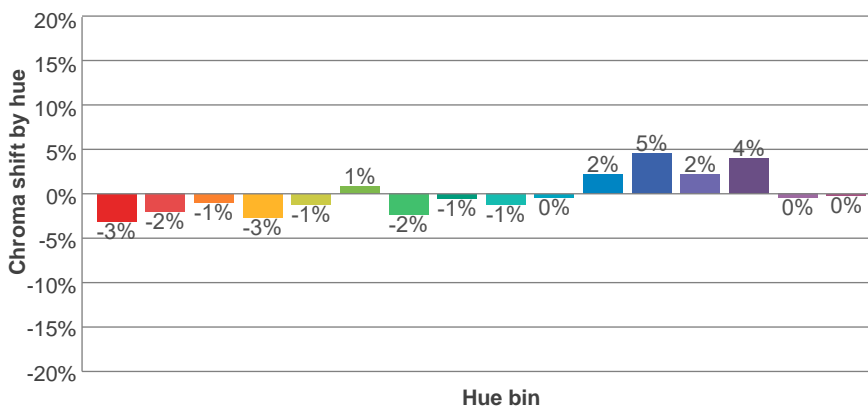
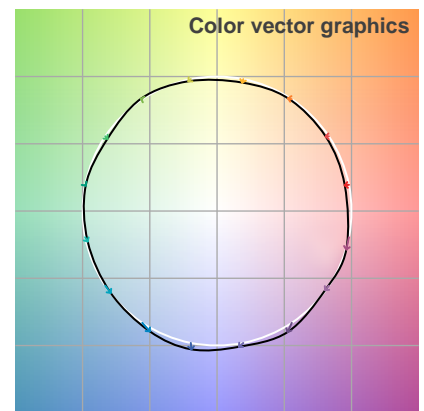
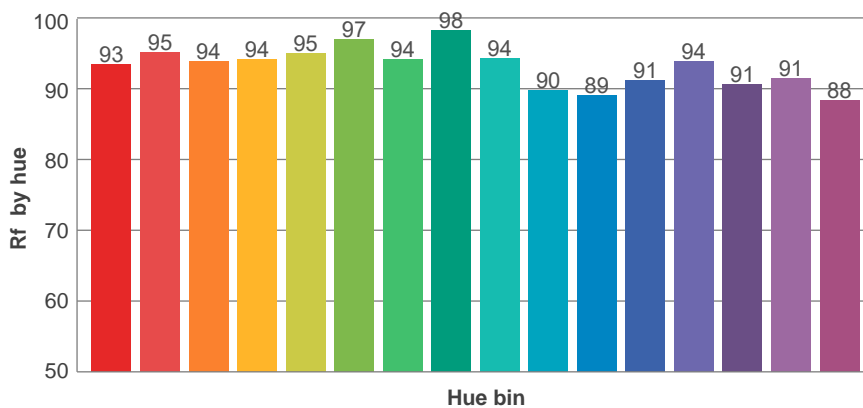
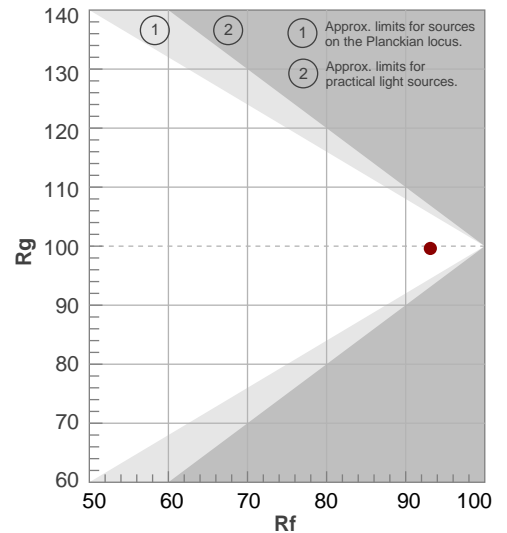
Rf 93.1

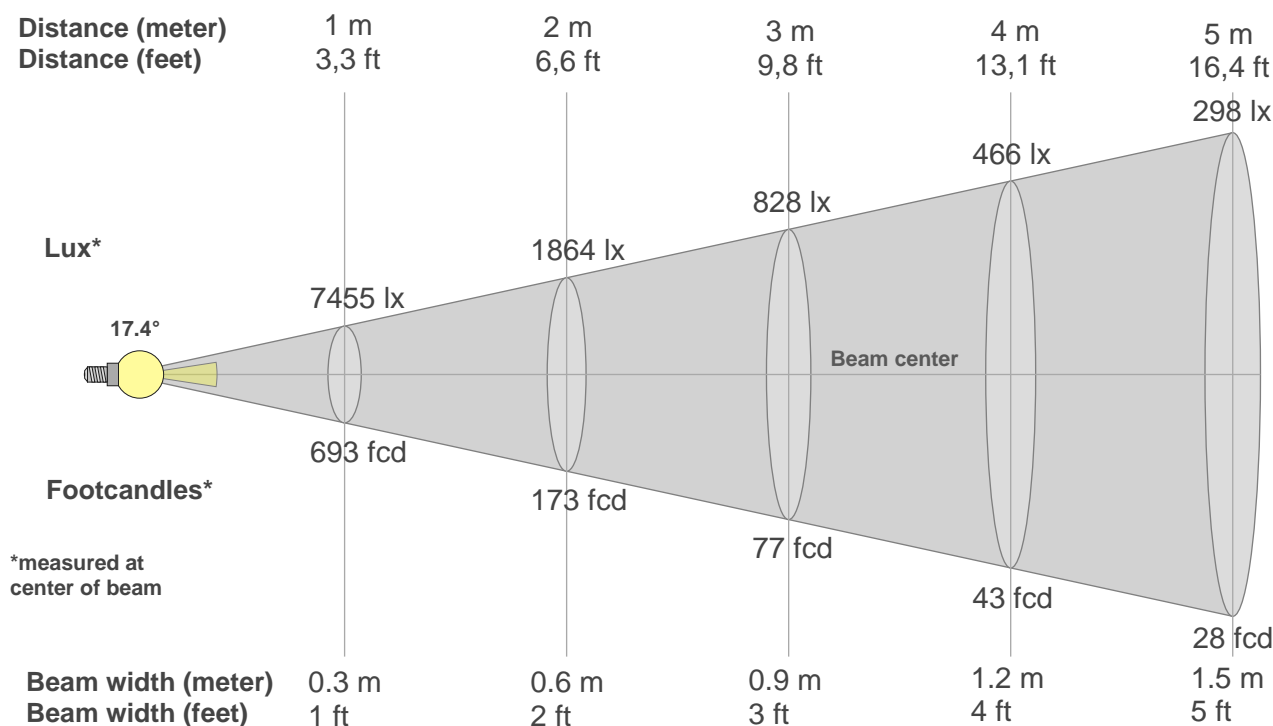
Fidelity index Rf

Rg 99.6

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	0%
2	95	-2%	1%
3	94	-1%	3%
4	94	-3%	0%
5	95	-1%	2%
6	97	1%	1%
7	94	-2%	1%
8	98	-1%	1%
9	94	-1%	3%
10	90	0%	7%
11	89	2%	8%
12	91	5%	1%
13	94	2%	-4%
14	91	4%	-6%
15	91	0%	-4%
16	88	0%	-9%





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
7455lx	1864lx	828lx	466lx	298lx	207lx	152lx	116lx	92lx	75lx	62lx	52lx	44lx	38lx	33lx	29lx	26lx	23lx	21lx	19lx
692.6fcd	173.2fcd	77fcd	43.3fcd	27.7fcd	19.2fcd	14.1fcd	10.8fcd	8.6fcd	6.9fcd	5.7fcd	4.8fcd	4.1fcd	3.5fcd	3.1fcd	2.7fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7455	7386	7201	6905	6489	5991	5428	4788	4110	3439	2826	2297	1842	1459	1144	892	701	540	407	290
100%	99%	97%	93%	87%	80%	73%	64%	55%	46%	38%	31%	25%	20%	15%	12%	9%	7%	5%	4%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7455	7379	7179	6878	6480	6003	5452	4850	4238	3648	3100	2631	2249	1935	1658	1421	1211	1020	835	668
100%	99%	96%	92%	87%	81%	73%	65%	57%	49%	42%	35%	30%	26%	22%	19%	16%	14%	11%	9%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7455	7386	7201	6905	6489	5991	5428	4788	4110	3439	2826	2297	1842	1459	1144	892	701	540	407	290
100%	99%	97%	93%	87%	80%	73%	64%	55%	46%	38%	31%	25%	20%	15%	12%	9%	7%	5%	4%

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
7455	7379	7179	6878	6480	6003	5452	4850	4238	3648	3100	2631	2249	1935	1658	1421	1211	1020	835	668
100%	99%	96%	92%	87%	81%	73%	65%	57%	49%	42%	35%	30%	26%	22%	19%	16%	14%	11%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17.4°	34.2°	43.2°	99.4%	99.2%