

Light efficiency:

54 Lumen/Watt

Light quality:

CRI: 95.4

Color temperature:

3132 K

Output: 1317 lm

Peak: 4006 cd

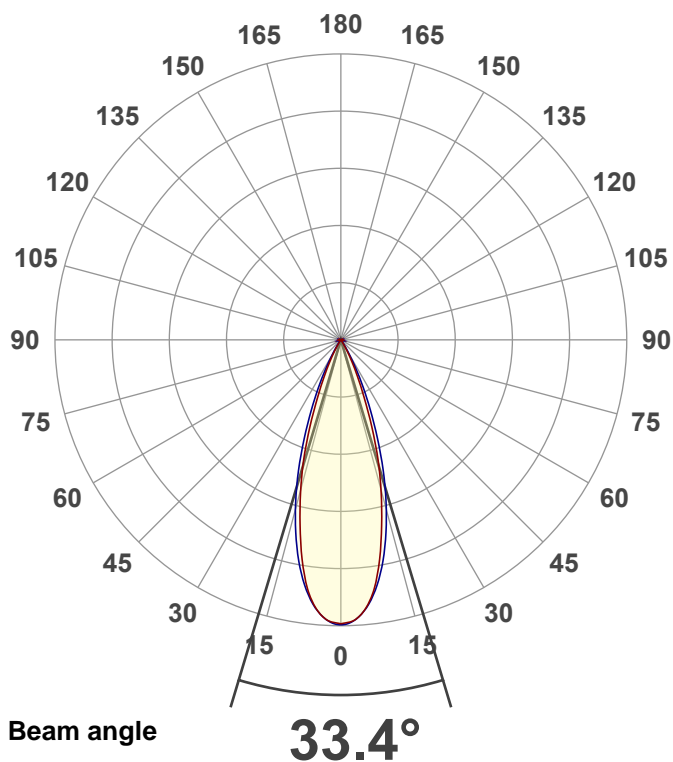
Power: 24.5 W

PF: 0.98



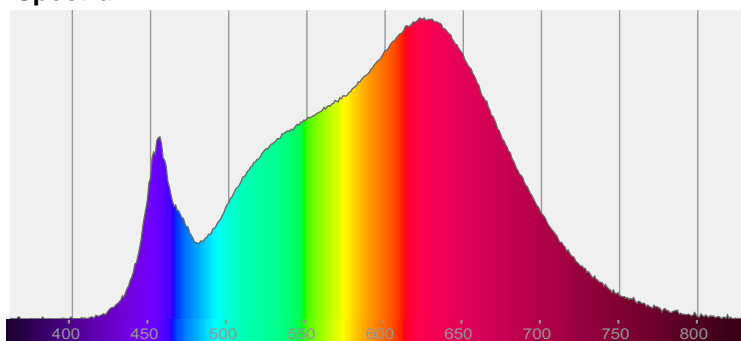
NU4-RAPH-WD-20LM-3018-97-35D-NL-WH

Date and time:
12/21/2021 2:48:04 PM

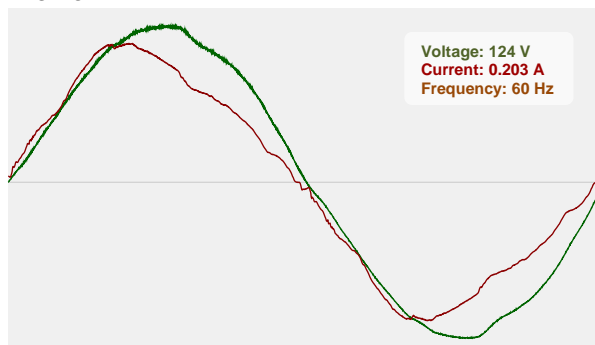


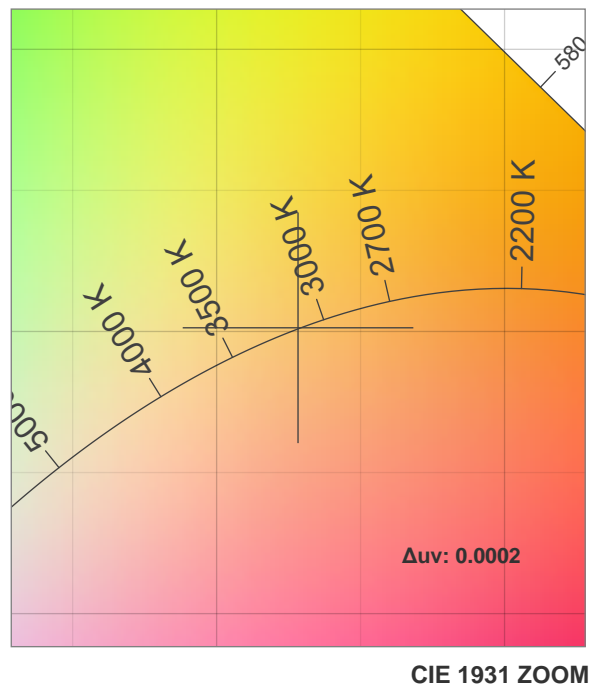
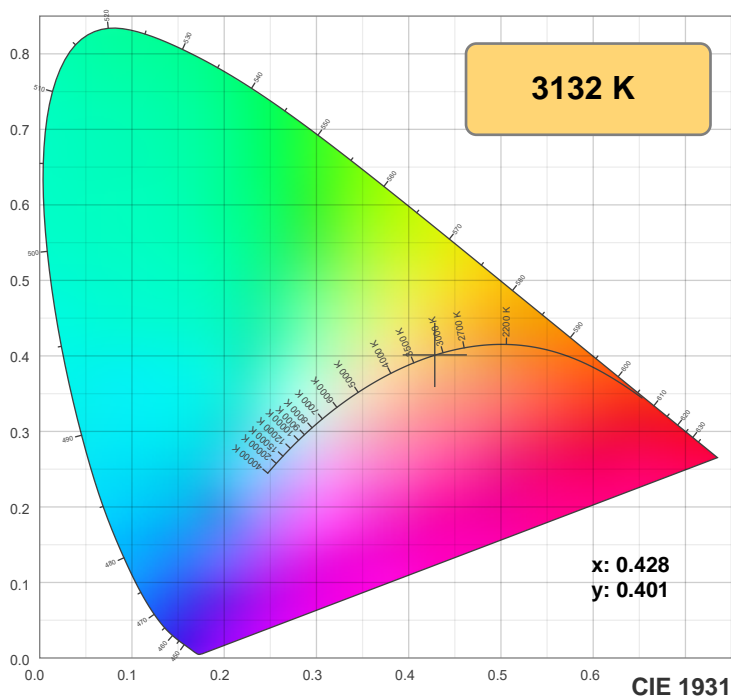
CIE 1931
x: 0.428
y: 0.401

Spectra

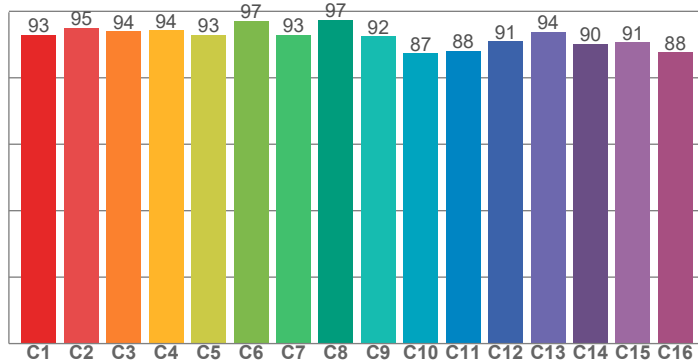


Power

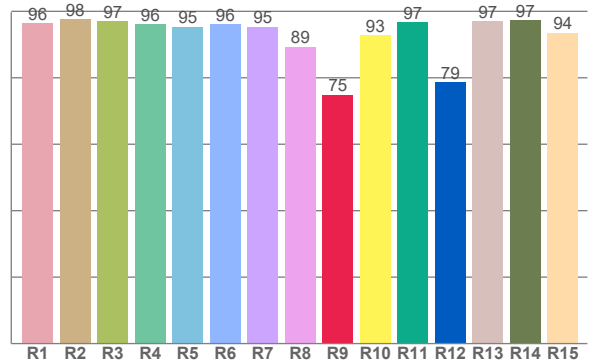




TM30: 92.4



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	97.7	96.9	96.1	95.3	96.2	95.3	89.3	74.9	92.8	96.7	78.7	97.0	97.4	93.6

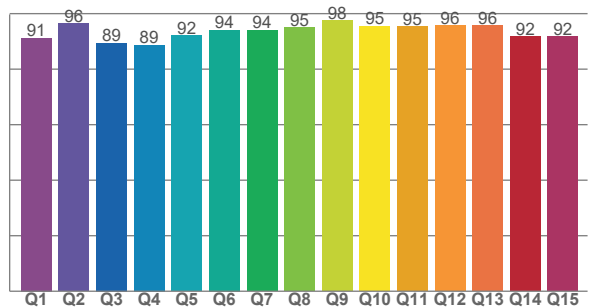
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.0	94.9	93.9	94.3	92.9	97.1	92.9	97.4	92.5	87.3	88.0	90.9	93.8	90.2	90.7	87.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.3	96.5	89.4	88.7	92.1	94.2	94.0	95.0	97.5	95.4	95.4	95.7	95.7	91.7	91.7

CQS: 93.0



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
3132 K	95.4	74.9	92.4	99.3	93.0	0.428	0.401	0.246	0.346	0.0002

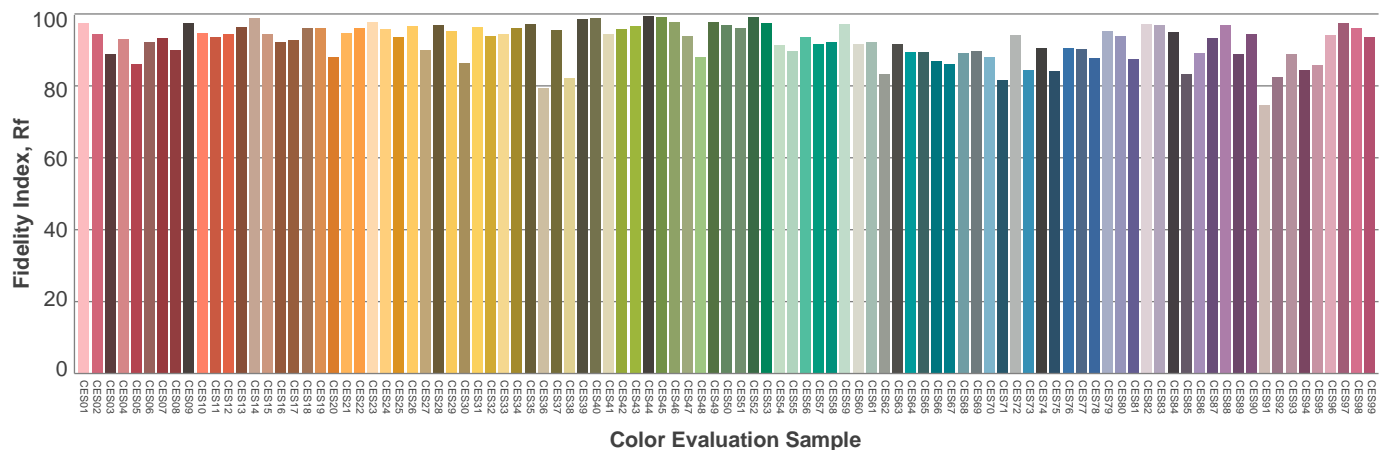
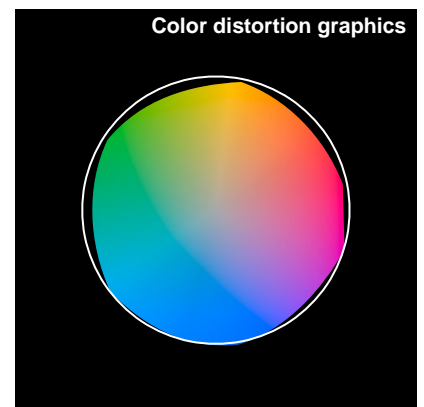
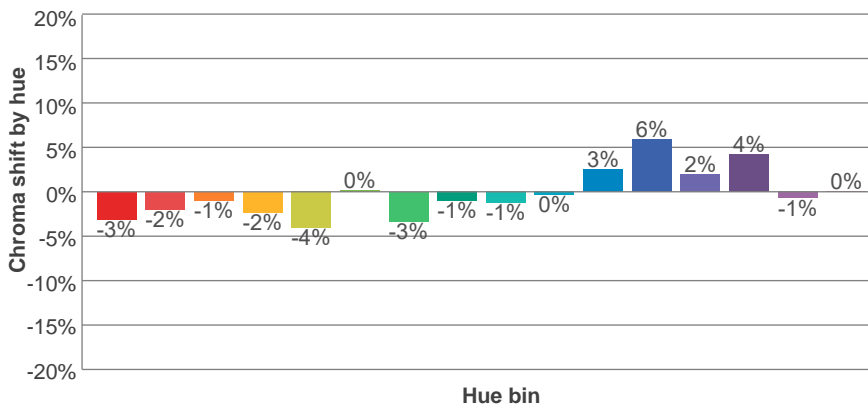
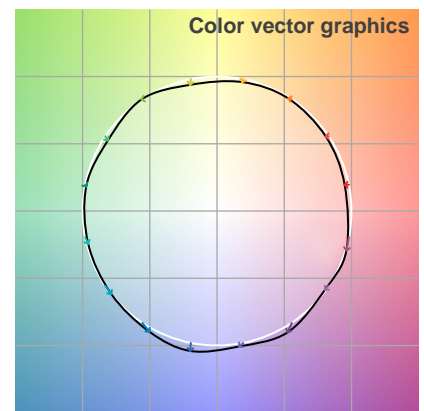
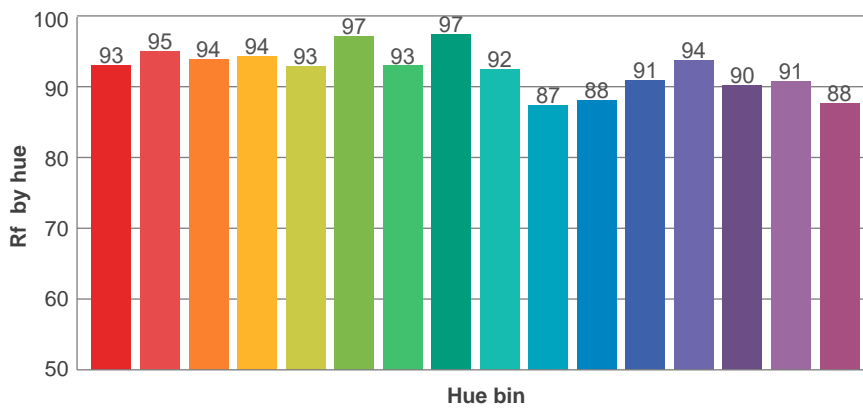
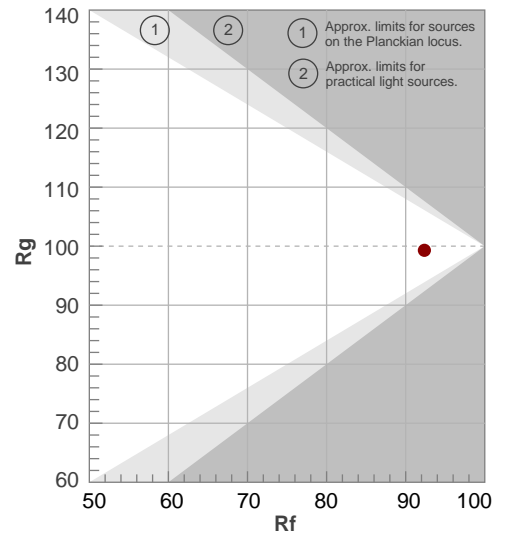
Rf 92.4

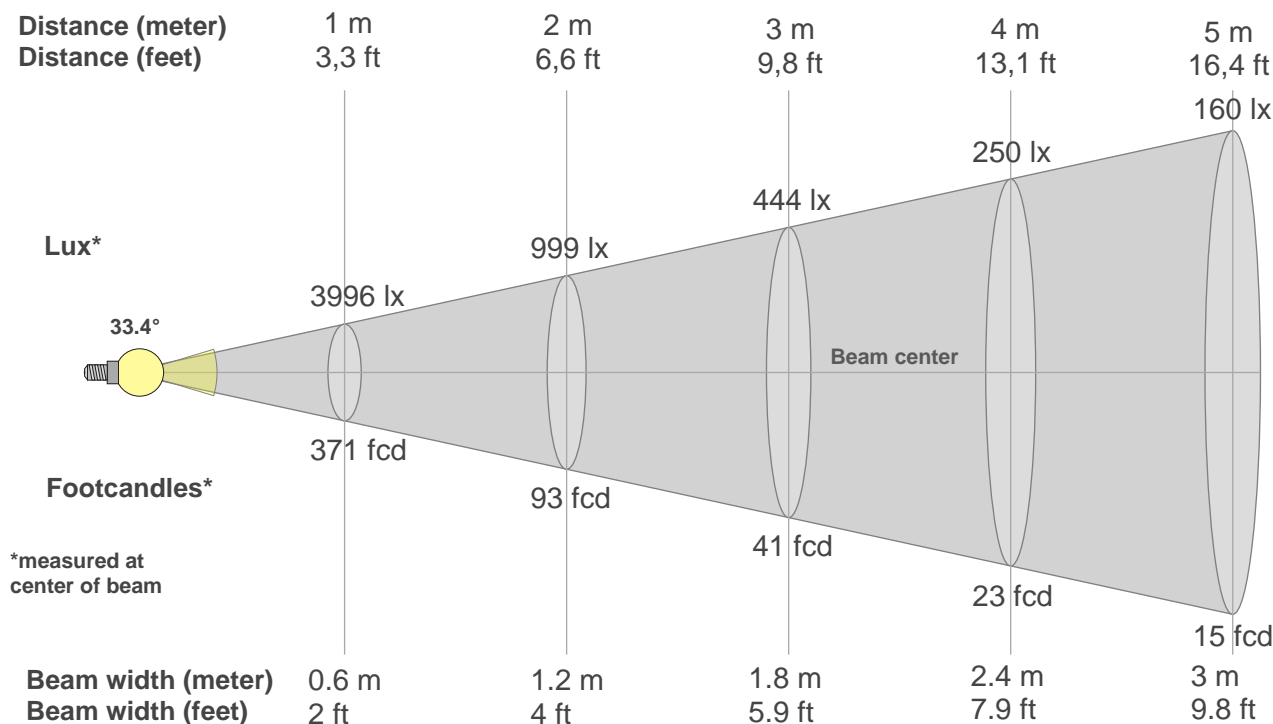
Fidelity index Rf

Rg 99.3

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	1%
2	95	-2%	1%
3	94	-1%	2%
4	94	-2%	0%
5	93	-4%	1%
6	97	0%	1%
7	93	-3%	1%
8	97	-1%	1%
9	92	-1%	5%
10	87	0%	8%
11	88	3%	8%
12	91	6%	1%
13	94	2%	-4%
14	90	4%	-6%
15	91	-1%	-4%
16	88	0%	-10%





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
3996lx	999lx	444lx	250lx	160lx	111lx	82lx	62lx	49lx	40lx	33lx	28lx	24lx	20lx	18lx	16lx	14lx	12lx	11lx	10lx
371.2fcd	92.8fcd	41.2fcd	23.2fcd	14.8fcd	10.3fcd	7.6fcd	5.8fcd	4.6fcd	3.7fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.6fcd	1.5fcd	1.3fcd	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°
3996	3957	3871	3710	3468	3135	2747	2367	1994	1613	1226	873	617	419	263	144	63	22	15	11
100%	99%	97%	93%	87%	78%	69%	59%	50%	40%	31%	22%	15%	10%	7%	4%	2%	1%	0%	0%

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°
3996	3966	3879	3737	3527	3269	2969	2639	2289	1925	1549	1205	904	643	422	250	145	76	37	19
100%	99%	97%	94%	88%	82%	74%	66%	57%	48%	39%	30%	23%	16%	11%	6%	4%	2%	1%	0%

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°
3996	3957	3871	3710	3468	3135	2747	2367	1994	1613	1226	873	617	419	263	144	63	22	15	11
100%	99%	97%	93%	87%	78%	69%	59%	50%	40%	31%	22%	15%	10%	7%	4%	2%	1%	0%	0%

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°
3996	3966	3879	3737	3527	3269	2969	2639	2289	1925	1549	1205	904	643	422	250	145	76	37	19
100%	99%	97%	94%	88%	82%	74%	66%	57%	48%	39%	30%	23%	16%	11%	6%	4%	2%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
33.4°	54.3°	64.2°	99.4%	99.2%