

Light efficiency:

46 Lumen/Watt

Light quality:

CRI: 95.3

Color temperature:

3113 K

Output: 1120 lm

Peak: 4356 cd

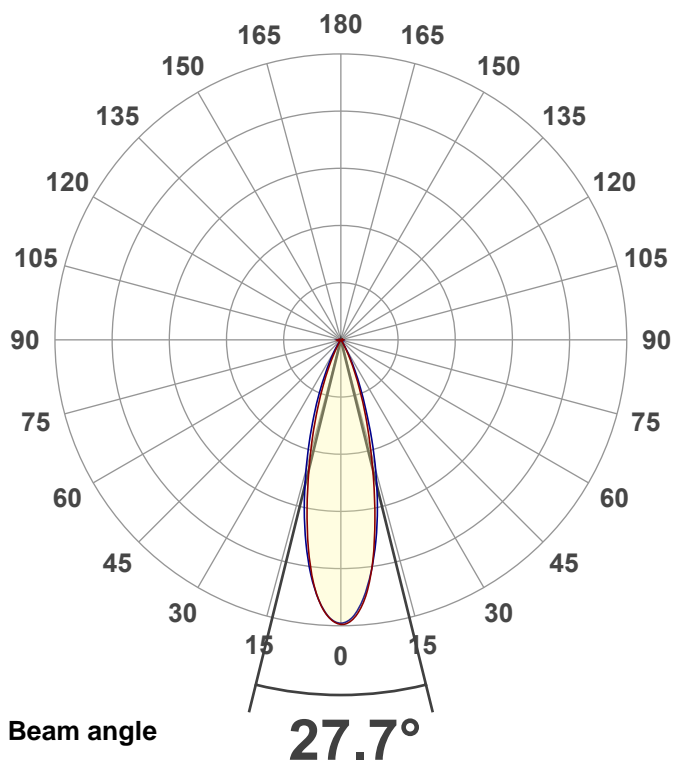
Power: 24.5 W

PF: 0.98



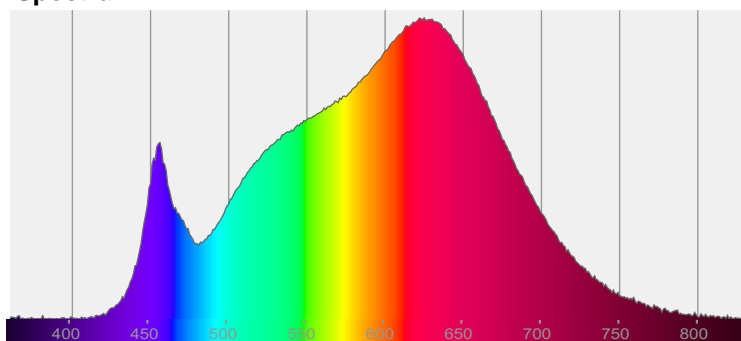
NU4-RAPH-WD-20LM-3018-97-25D-SBL-WH

Date and time:
12/21/2021 3:47:22 PM

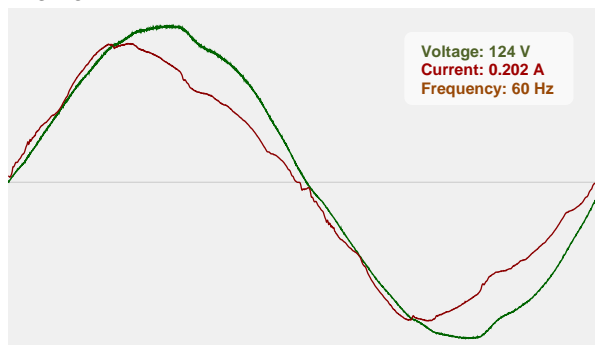


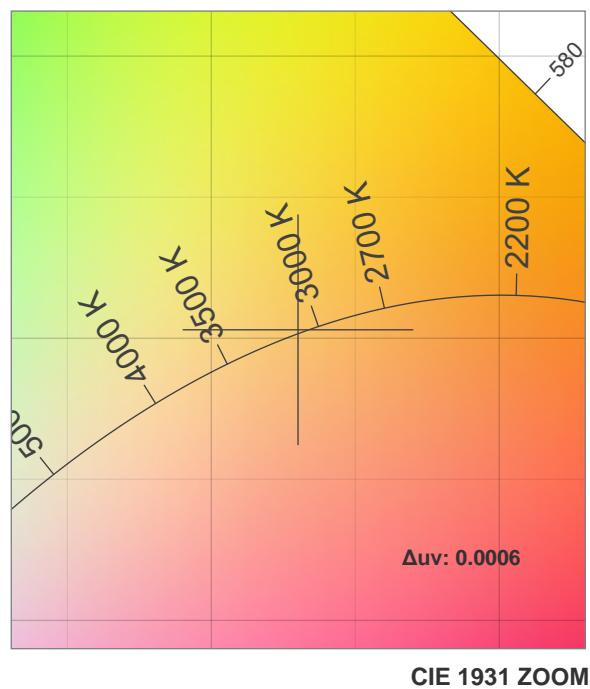
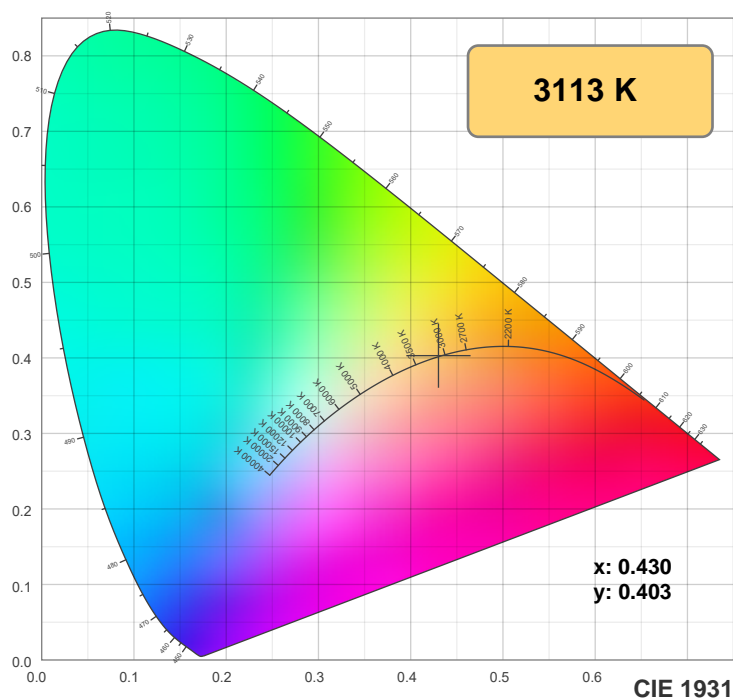
CIE 1931
x: 0.430
y: 0.403

Spectra

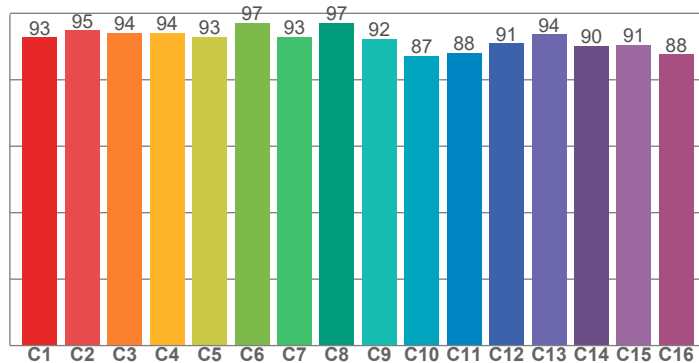


Power

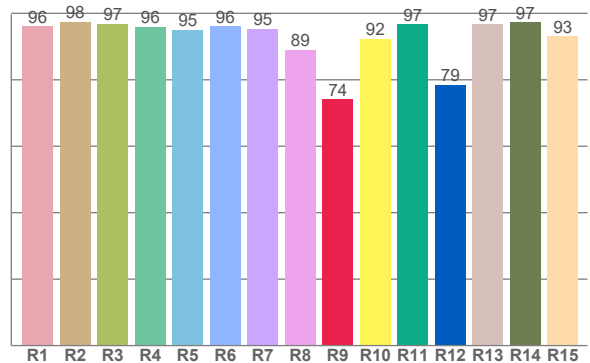




TM30: 92.3



CRI: 95.3 (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
96.2	97.5	96.9	96.0	95.1	96.1	95.3	89.0	74.1	92.4	96.7	78.5	96.8	97.4	93.2

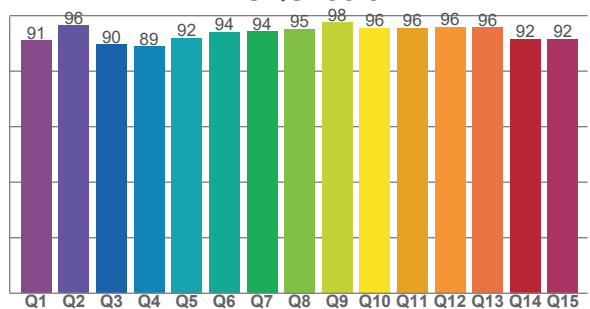
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.8	94.9	94.0	94.2	92.9	97.2	92.8	97.2	92.3	87.2	88.1	91.0	93.7	90.2	90.6	87.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.0	96.4	89.6	88.8	92.0	94.0	94.2	95.2	97.5	95.5	95.5	95.8	95.7	91.5	91.6

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
3113 K	95.3	74.1	92.3	99.1	93.0	0.430	0.403	0.247	0.347	0.0006

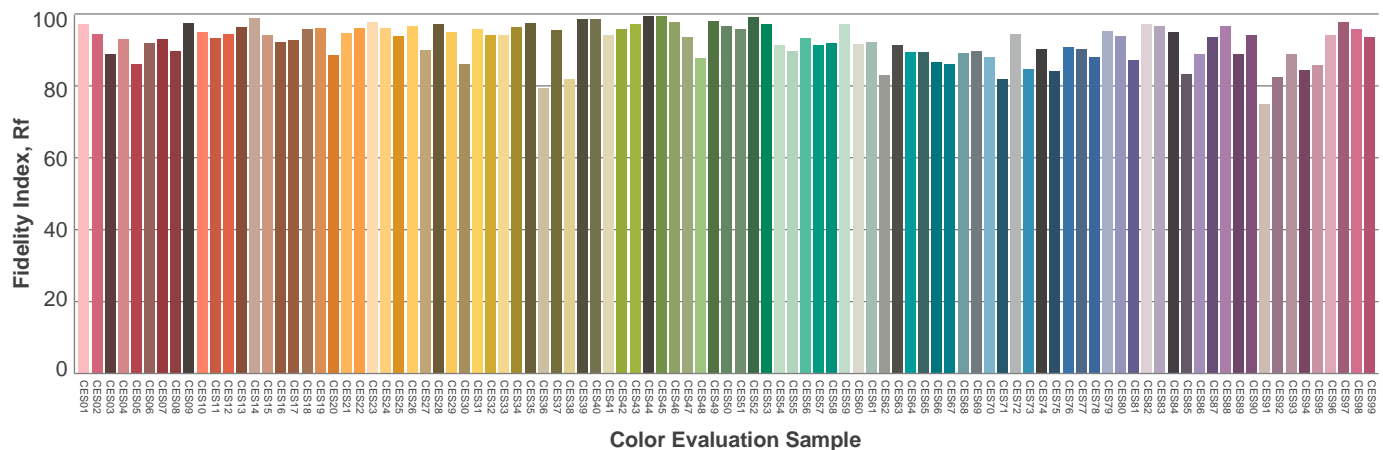
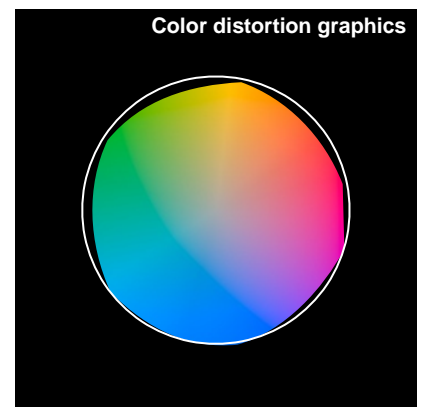
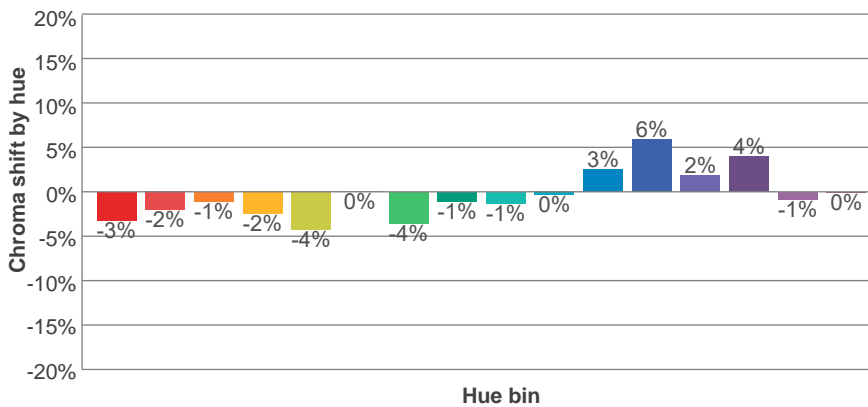
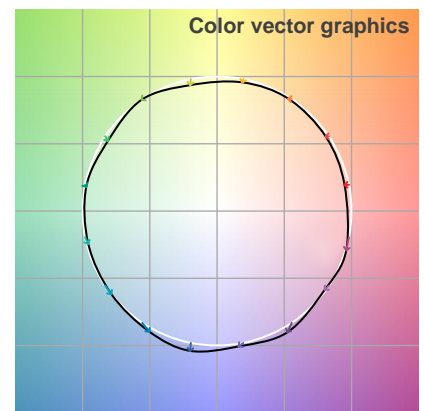
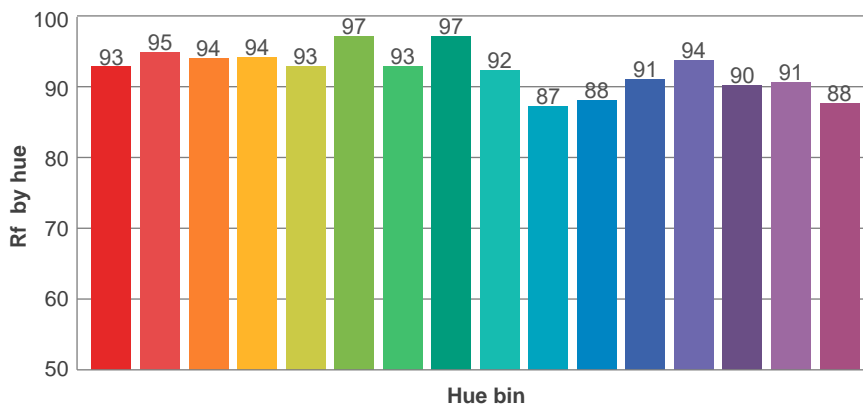
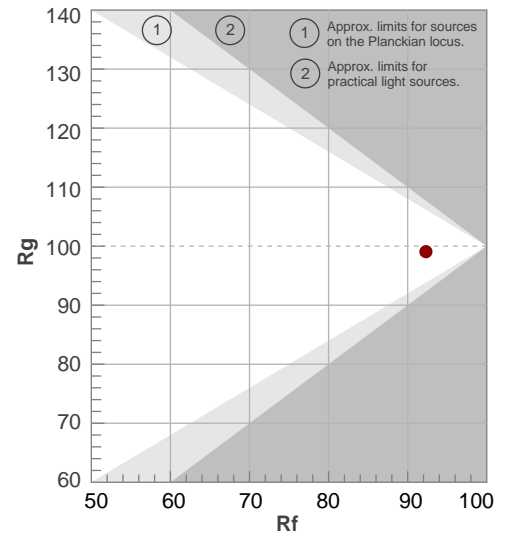
Rf 92.3

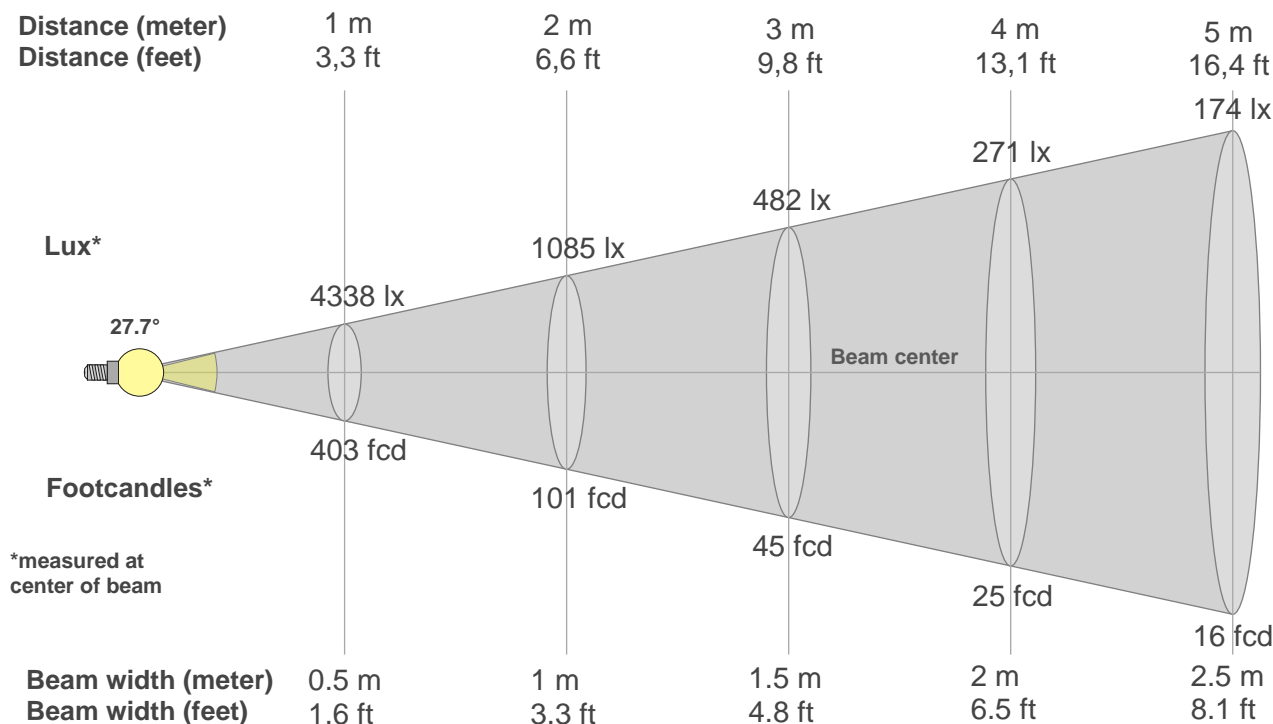
Fidelity index Rf

Rg 99.1

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	-4%	2%
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%	-7%
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
4338lx	1085lx	482lx	271lx	174lx	121lx	89lx	68lx	54lx	43lx	36lx	30lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
403fcd	100.8fcd	44.8fcd	25.2fcd	16.1fcd	11.2fcd	8.2fcd	6.3fcd	5fcd	4fcd	3.3fcd	2.8fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd

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°
4338	4291	4132	3864	3465	2983	2489	2016	1589	1230	923	668	463	303	183	110	67	44	31	21
100%	99%	95%	89%	80%	69%	57%	46%	37%	28%	21%	15%	11%	7%	4%	3%	2%	1%	1%	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°
4338	4264	4081	3811	3476	3101	2690	2269	1853	1454	1093	813	591	403	252	141	69	38	23	15
100%	98%	94%	88%	80%	71%	62%	52%	43%	34%	25%	19%	14%	9%	6%	3%	2%	1%	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°
4338	4275	4110	3810	3413	2956	2477	2012	1601	1236	920	654	433	260	142	72	36	21	15	11
100%	99%	95%	88%	79%	68%	57%	46%	37%	28%	21%	15%	10%	6%	3%	2%	1%	0%	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°
4338	4268	4088	3823	3490	3106	2693	2270	1867	1498	1169	886	645	465	325	214	130	78	45	28
100%	98%	94%	88%	80%	72%	62%	52%	43%	35%	27%	20%	15%	11%	7%	5%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27.7°	50.2°	61.3°	99.7%	99.5%