

Light efficiency:

51 Lumen/Watt

Light quality:

CRI: 95.3

Color temperature:

3129 K

Output: 1252 lm

Peak: 5052 cd

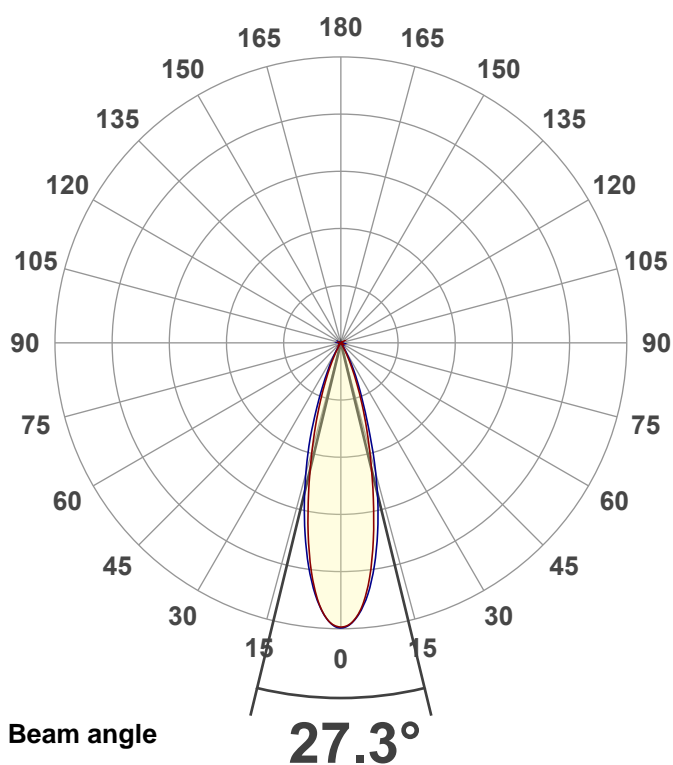
Power: 24.5 W

PF: 0.98



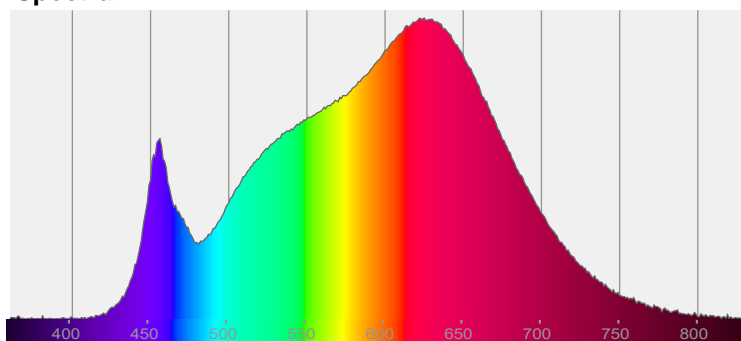
NU4-RAPH-WD-20LM-3018-97-25D-NL-WH

Date and time:
12/21/2021 2:55:18 PM

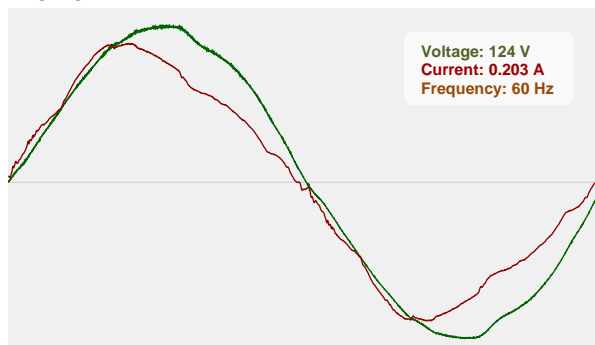


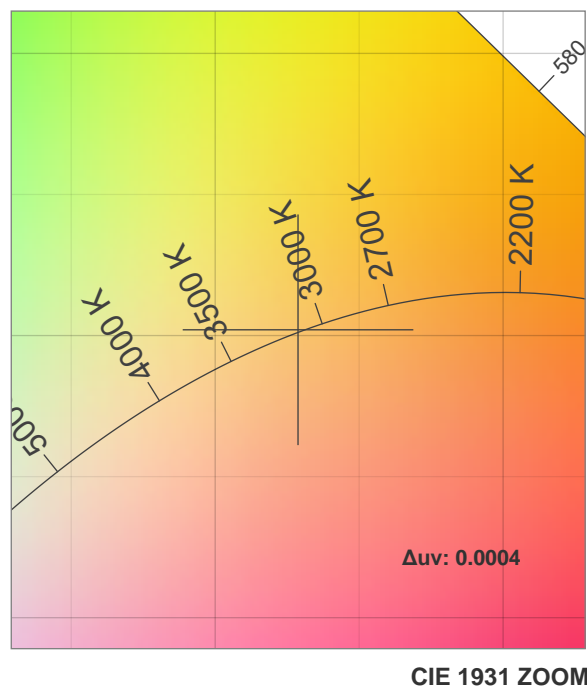
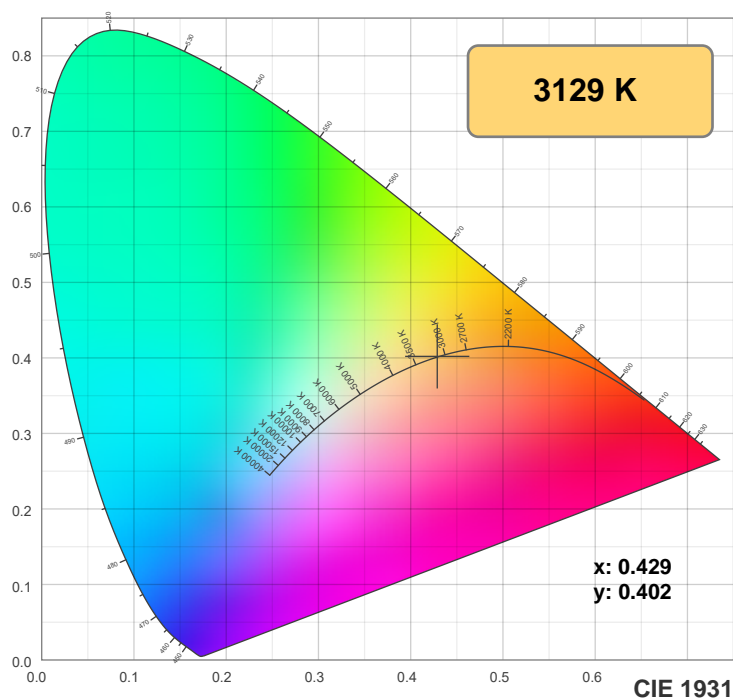
CIE 1931
x: 0.429
y: 0.402

Spectra

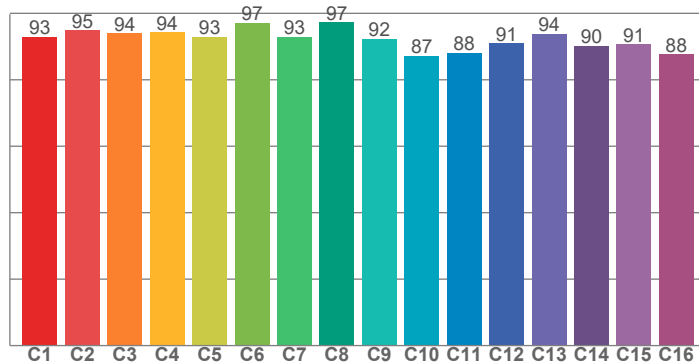


Power

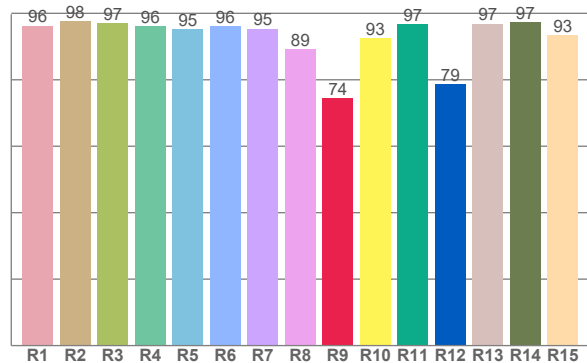




TM30: 92.3



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
96.3	97.6	96.9	96.0	95.2	96.1	95.3	89.2	74.5	92.5	96.6	78.6	96.8	97.4	93.4

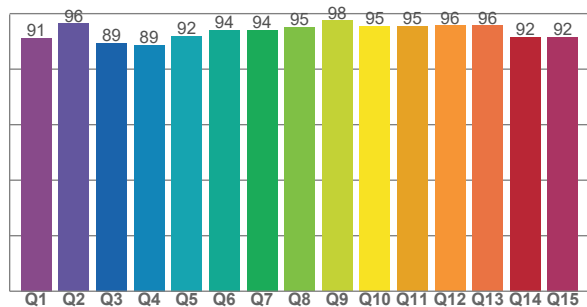
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.9	94.9	94.0	94.3	92.9	97.1	92.9	97.3	92.4	87.3	88.1	91.0	93.8	90.2	90.6	87.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.2	96.4	89.5	88.7	92.0	94.1	94.1	95.1	97.5	95.5	95.5	95.7	95.7	91.6	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
3129 K	95.3	74.5	92.3	99.2	93.0	0.429	0.402	0.246	0.346	0.0004

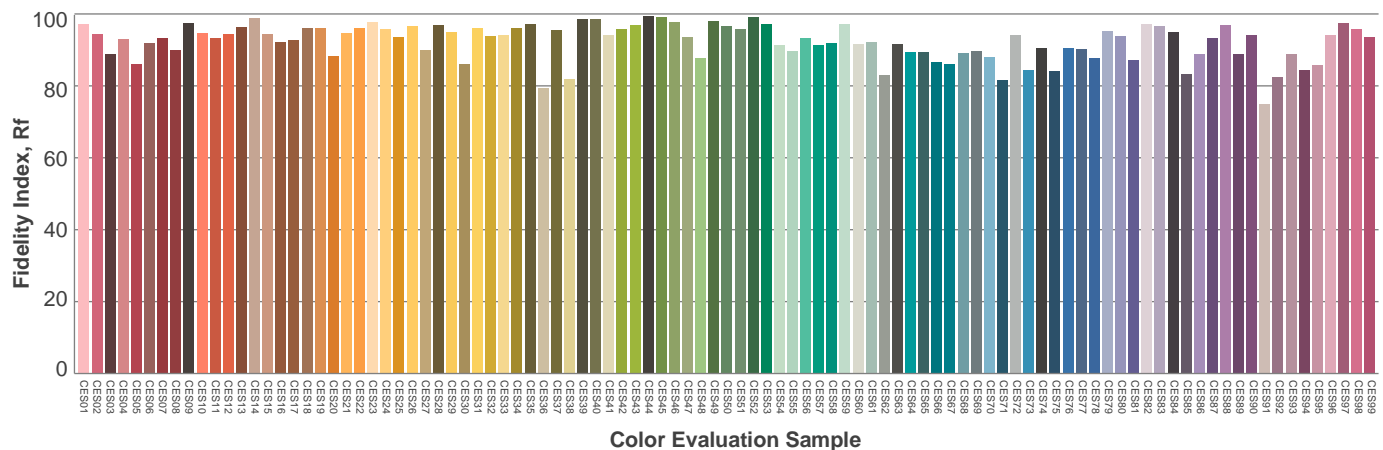
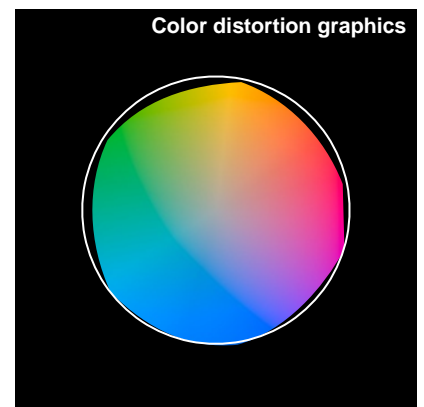
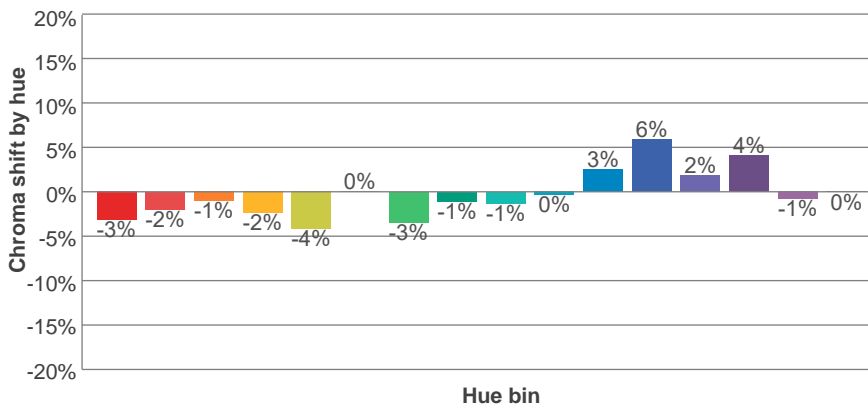
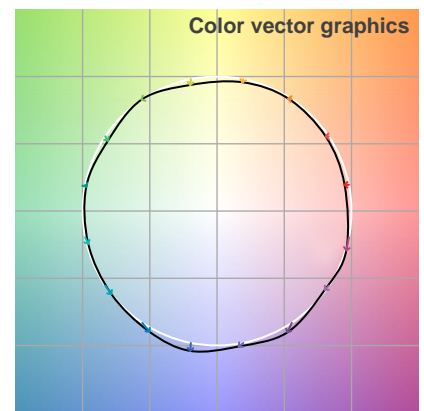
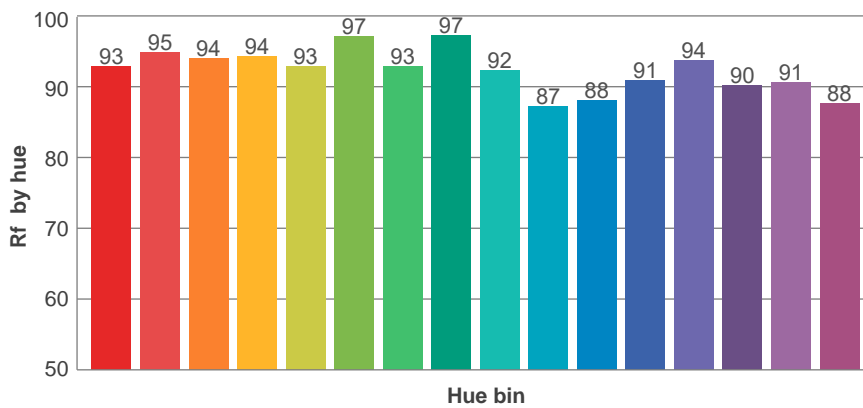
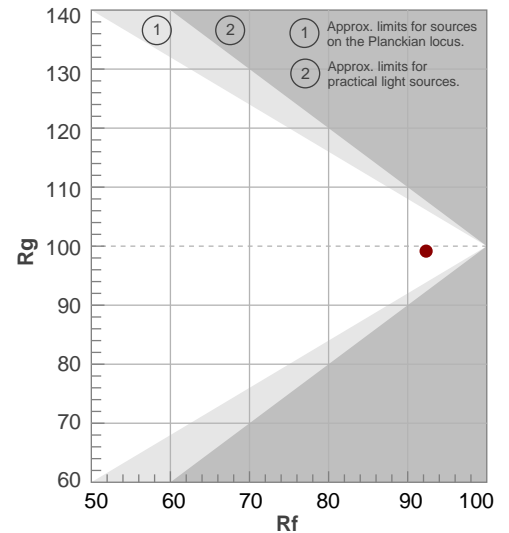
Rf 92.3

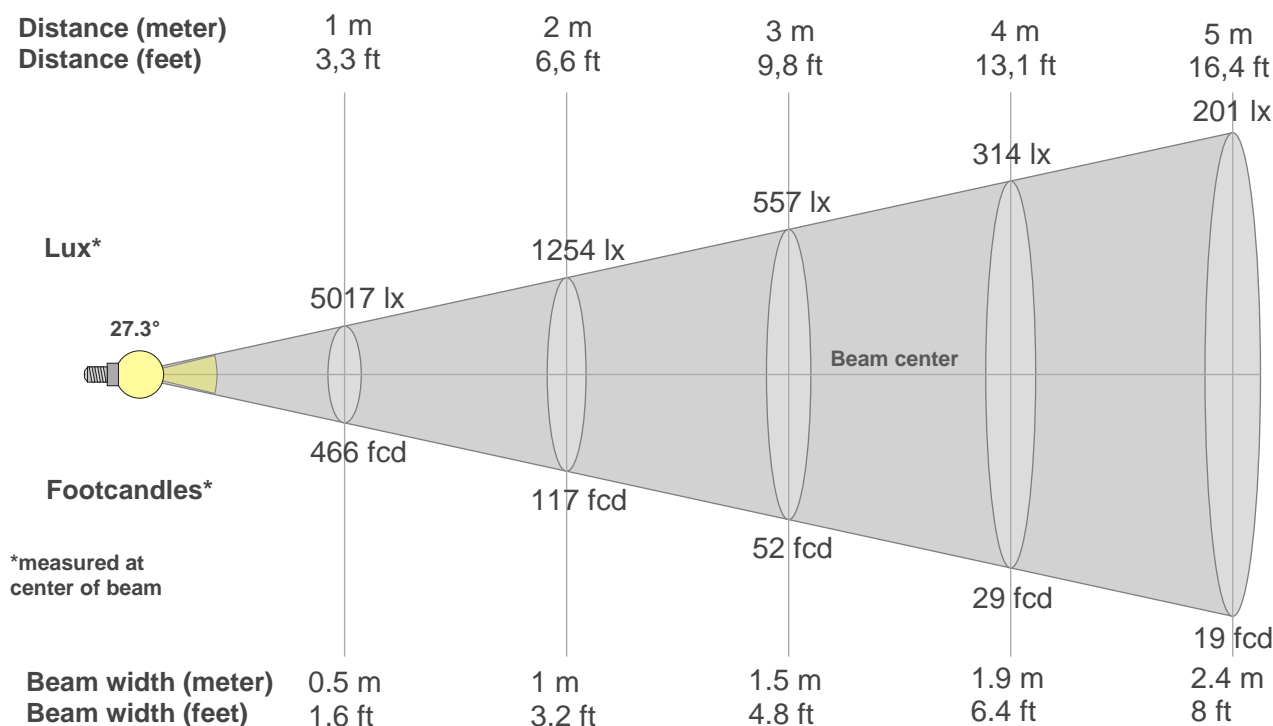
Fidelity index Rf

Rg 99.2

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%	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%	-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
5017lx	1254lx	557lx	314lx	201lx	139lx	102lx	78lx	62lx	50lx	41lx	35lx	30lx	26lx	22lx	20lx	17lx	15lx	14lx	13lx
466.1fc	116.5fc	51.8fcd	29.1fcd	18.6fcd	12.9fcd	9.5fcd	7.3fcd	5.8fcd	4.7fcd	3.9fcd	3.2fcd	2.8fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	1.2fcd

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°
5017	4956	4742	4384	3902	3340	2754	2212	1746	1342	992	696	461	274	144	67	32	21	16	12
100%	99%	95%	87%	78%	67%	55%	44%	35%	27%	20%	14%	9%	5%	3%	1%	1%	0%	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°
5017	4957	4777	4489	4095	3643	3157	2647	2118	1596	1195	896	658	456	287	169	97	54	33	23
100%	99%	95%	89%	82%	73%	63%	53%	42%	32%	24%	18%	13%	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°
5017	4942	4725	4370	3897	3342	2754	2217	1750	1343	993	702	477	308	188	108	62	41	33	23
100%	99%	94%	87%	78%	67%	55%	44%	35%	27%	20%	14%	10%	6%	4%	2%	1%	1%	1%	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°
5017	4945	4743	4435	4035	3578	3105	2631	2171	1732	1298	950	680	476	318	189	106	60	35	22
100%	99%	95%	88%	80%	71%	62%	52%	43%	35%	26%	19%	14%	9%	6%	4%	2%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
27.3°	49.3°	60.2°	99.6%	99.4%