

Light efficiency:

78 Lumen/Watt

Light quality:

CRI: 93.3

Color temperature:

3021 K

Output: 1956 lm

Peak: 7211 cd

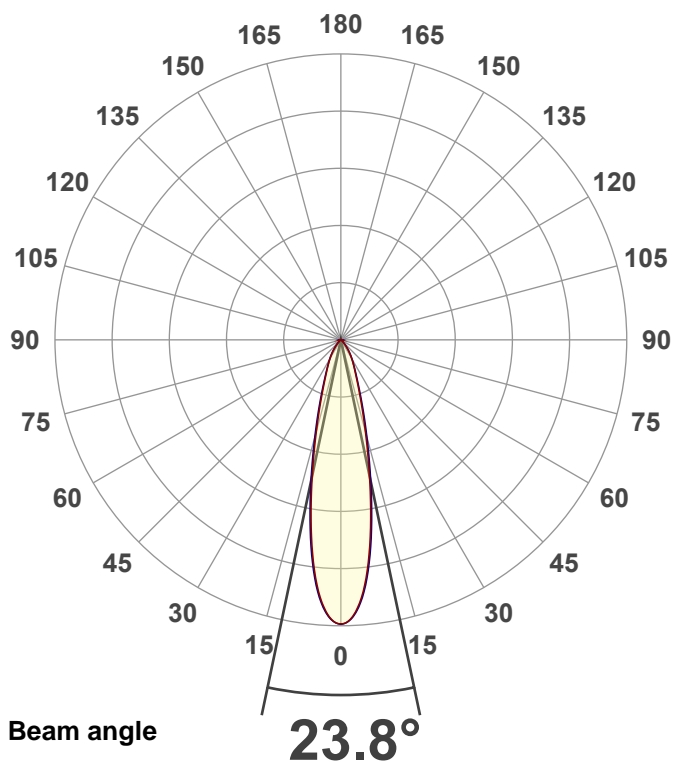
Power: 25.0 W

PF: 0.98



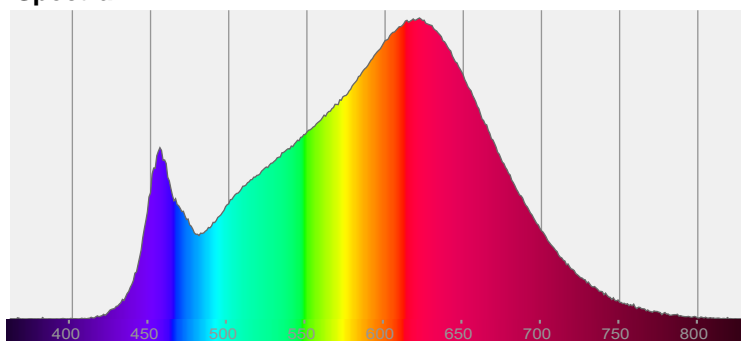
NU4-RD-TW-20LM-2765-95-20D-HET-WH-WH

Date and time:
3/27/2023 12:52:43 PM

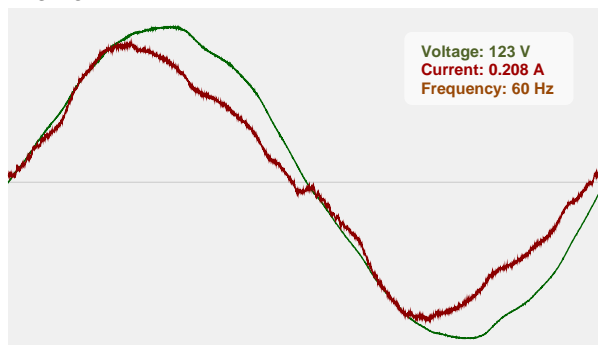


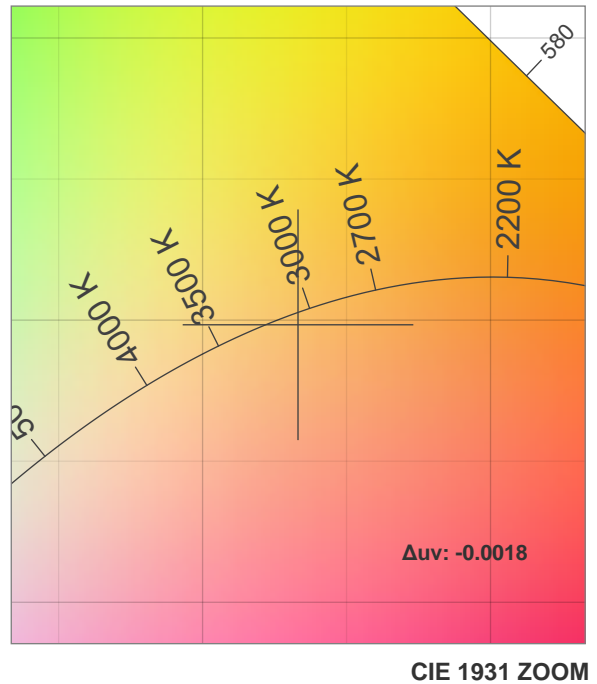
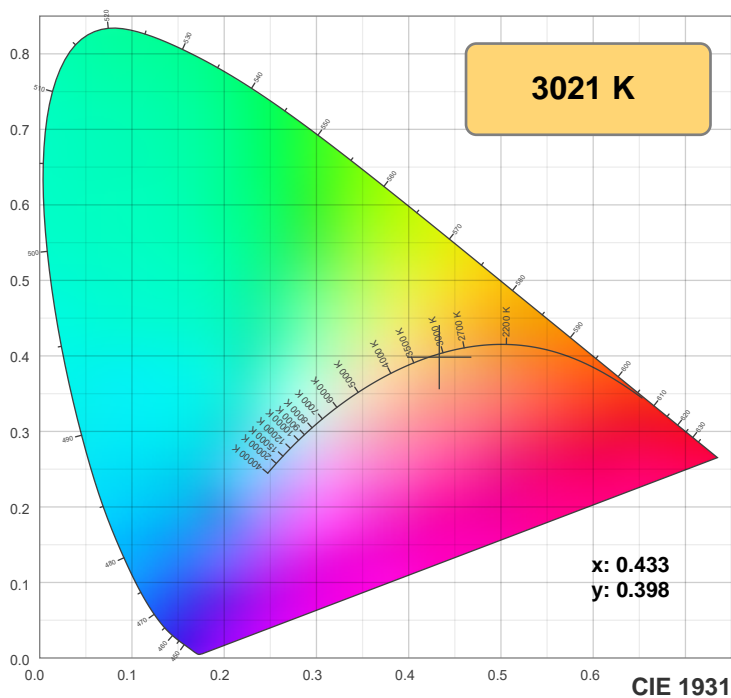
CIE 1931
x: 0.433
y: 0.398

Spectra

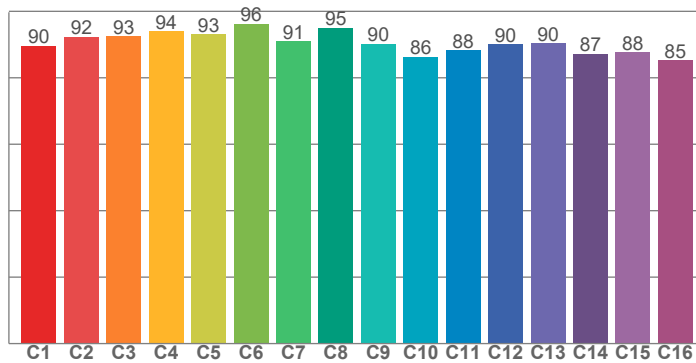


Power

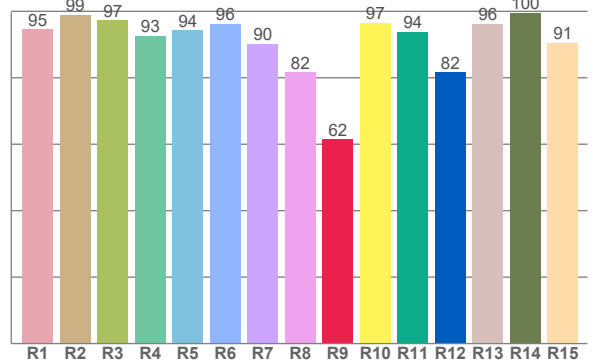




TM30: 90.8



CRI: 93.3 (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
94.6	99.0	97.4	92.6	94.3	96.3	90.3	81.7	61.5	96.6	93.8	81.7	96.2	99.6	90.5

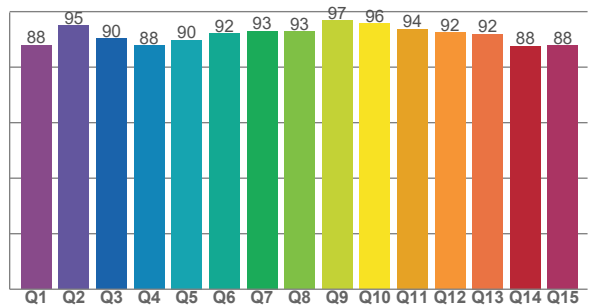
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.7	92.3	92.5	94.0	93.1	96.2	90.9	95.0	90.3	86.3	88.3	90.1	90.4	87.1	87.6	85.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.9	94.9	90.3	87.7	89.9	92.1	93.1	92.8	96.8	95.7	93.7	92.4	91.9	87.6	87.7

CQS: 91.0



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
3021 K	93.3	61.5	90.8	97.6	91.0	0.433	0.398	0.251	0.346	-0.0018

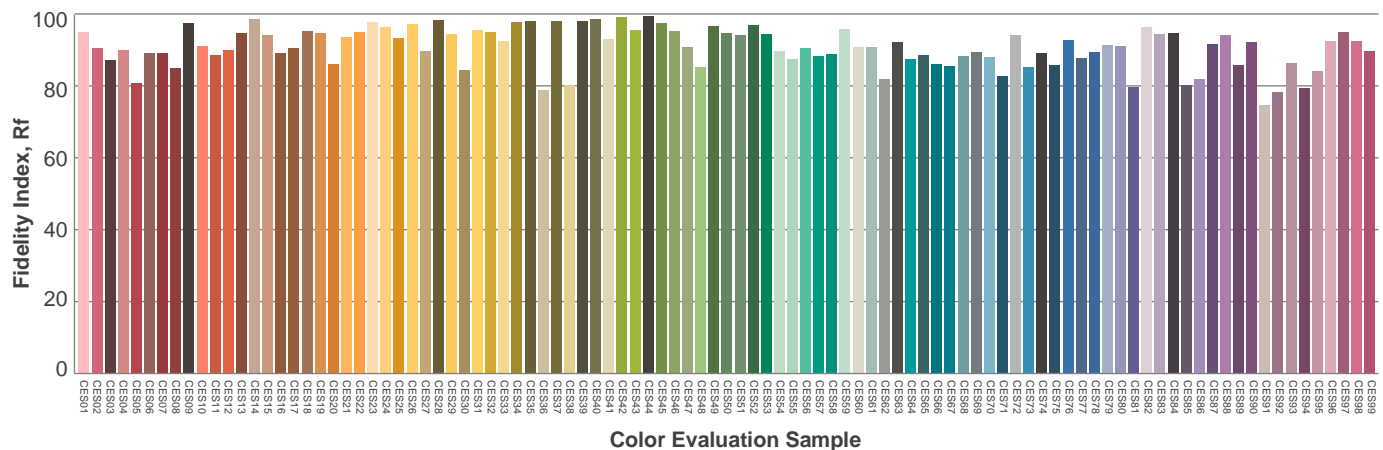
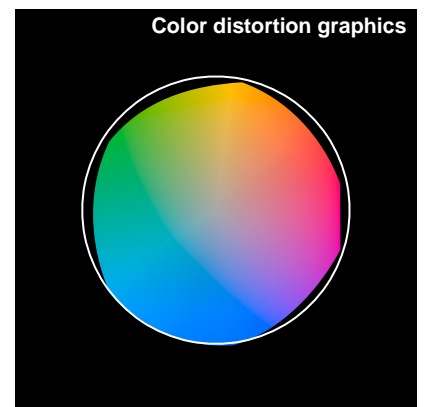
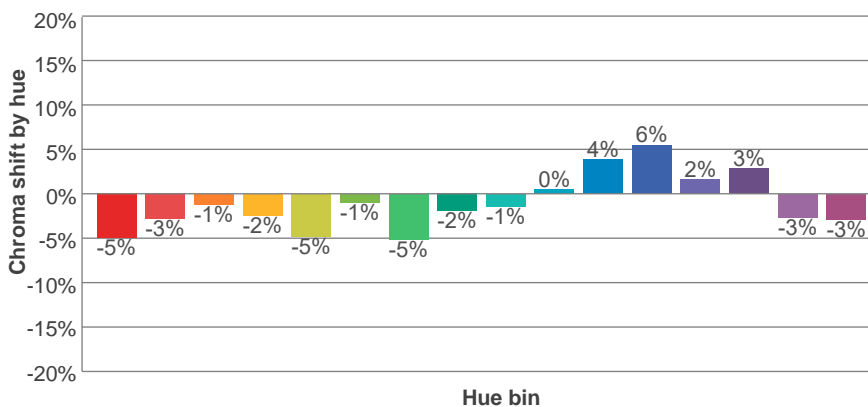
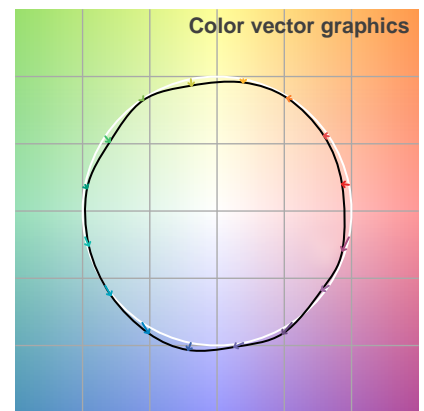
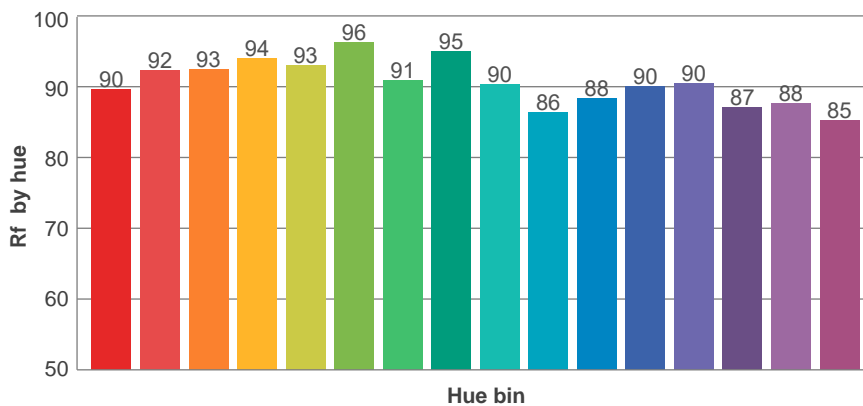
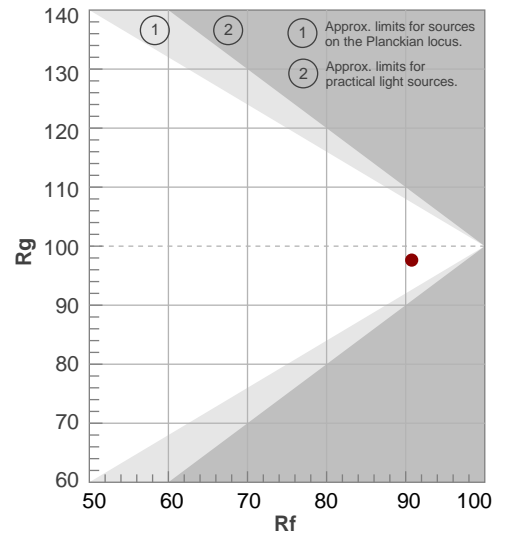
Rf 90.8

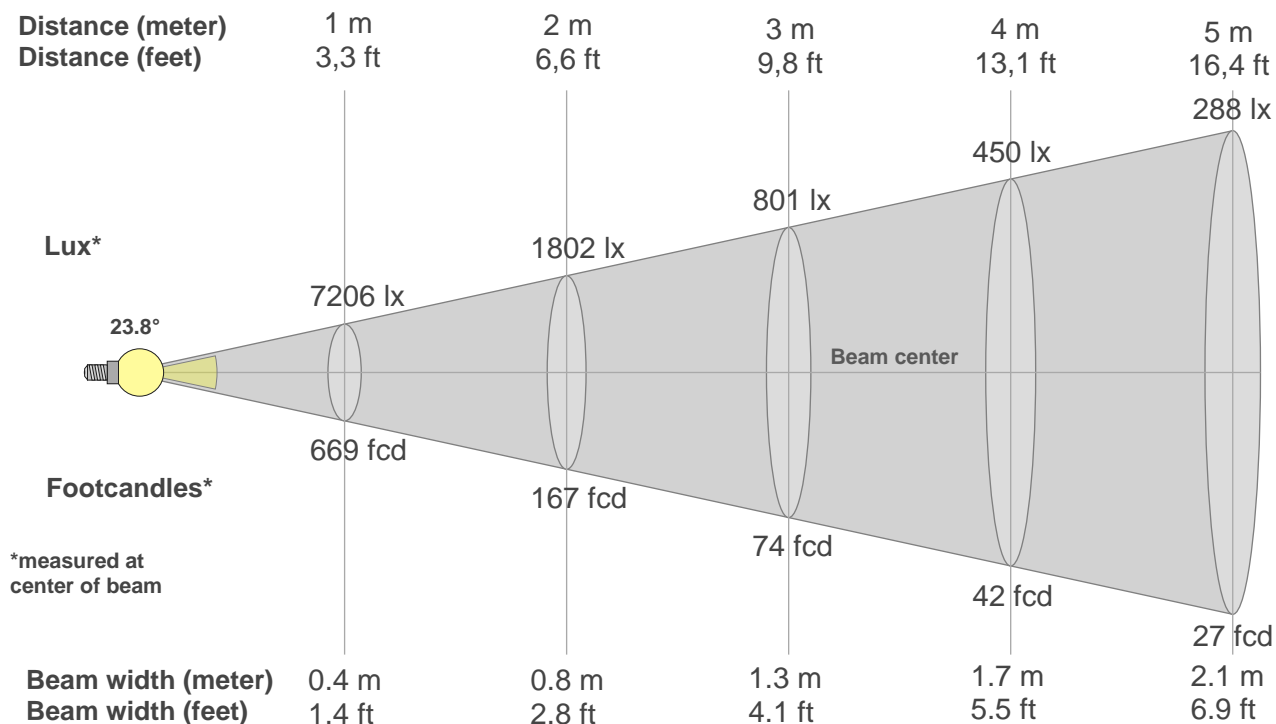
Fidelity index Rf

Rg 97.6

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	92	-3%	2%
3	93	-1%	3%
4	94	-2%	0%
5	93	-5%	0%
6	96	-1%	0%
7	91	-5%	2%
8	95	-2%	2%
9	90	-1%	7%
10	86	0%	8%
11	88	4%	8%
12	90	6%	-1%
13	90	2%	-7%
14	87	3%	-10%
15	88	-3%	-6%
16	85	-3%	-11%





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
7206lx	1802lx	801lx	450lx	288lx	200lx	147lx	113lx	89lx	72lx	60lx	50lx	43lx	37lx	32lx	28lx	25lx	22lx	20lx	18lx
669.5fc	167.4fc	74.4fc	41.8fc	26.8fc	18.6fc	13.7fc	10.5fc	8.3fc	6.7fc	5.5fc	4.6fc	4fc	3.4fc	3fc	2.6fc	2.3fc	2.1fc	1.9fc	1.7fc

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°
7206	7081	6703	6087	5269	4360	3485	2732	2129	1666	1323	1074	895	761	652	555	470	389	310	239
100%	98%	93%	84%	73%	60%	48%	38%	30%	23%	18%	15%	12%	11%	9%	8%	7%	5%	4%	3%

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°
7206	7095	6748	6166	5386	4502	3638	2879	2261	1775	1404	1131	933	783	664	564	475	390	314	245
100%	98%	94%	86%	75%	62%	50%	40%	31%	25%	19%	16%	13%	11%	9%	8%	7%	5%	4%	3%

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°
7206	7081	6703	6087	5269	4360	3485	2732	2129	1666	1323	1074	895	761	652	555	470	389	310	239
100%	98%	93%	84%	73%	60%	48%	38%	30%	23%	18%	15%	12%	11%	9%	8%	7%	5%	4%	3%

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°
7206	7095	6748	6166	5386	4502	3638	2879	2261	1775	1404	1131	933	783	664	564	475	390	314	245
100%	98%	94%	86%	75%	62%	50%	40%	31%	25%	19%	16%	13%	11%	9%	8%	7%	5%	4%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.8°	53.7°	80.1°	99.5%	97.5%