

Light efficiency:

58 Lumen/Watt

Light quality:

CRI: 93.4

Color temperature:

3002 K

Output: 1447 lm

Peak: 7811 cd

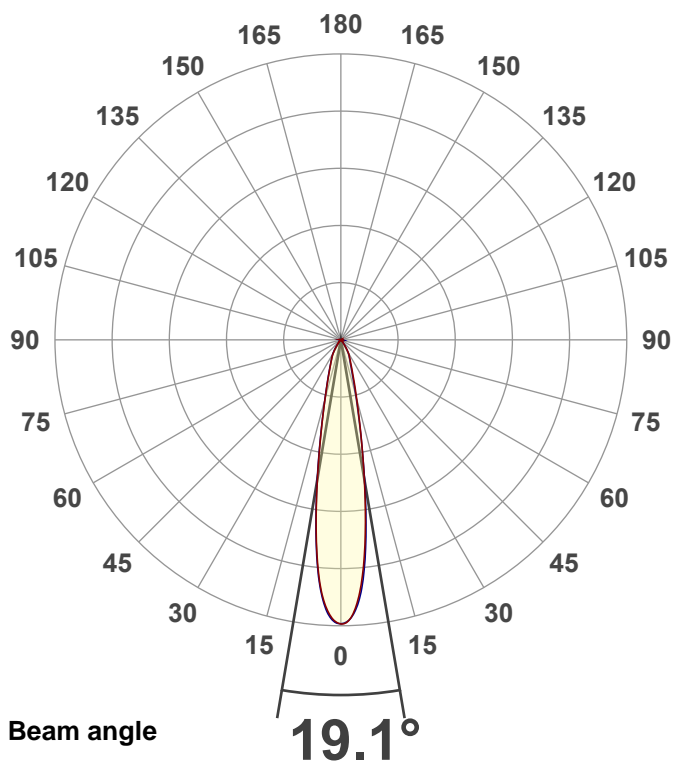
Power: 25.0 W

PF: 0.98



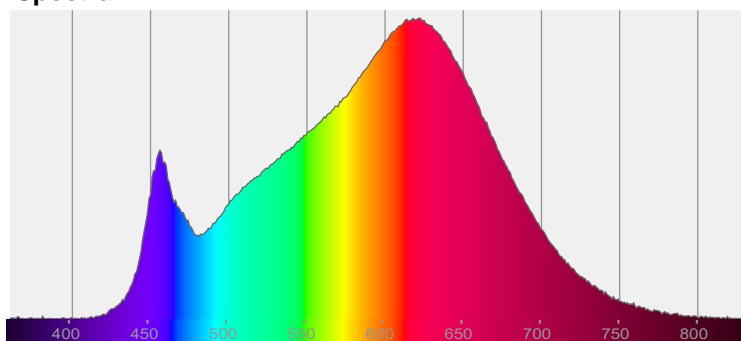
NU4-RD-TW-20LM-2765-95-20D-HCL-WH-WH

Date and time:
3/27/2023 3:05:24 PM

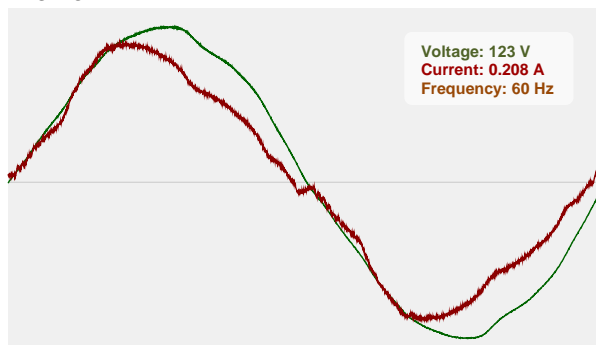


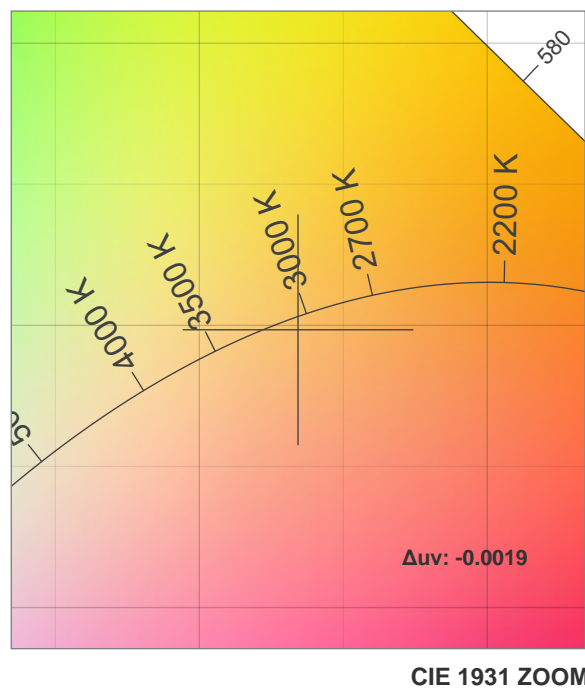
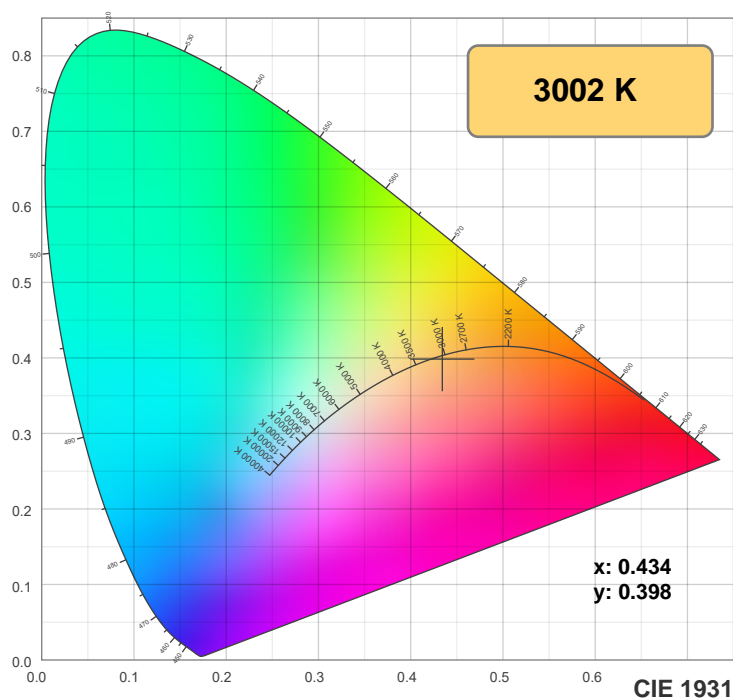
CIE 1931
x: 0.434
y: 0.398

Spectra

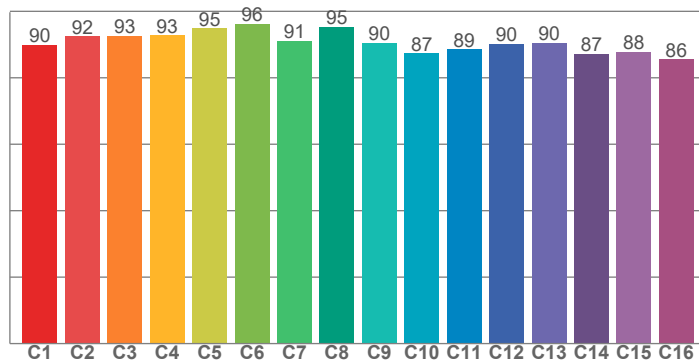


Power

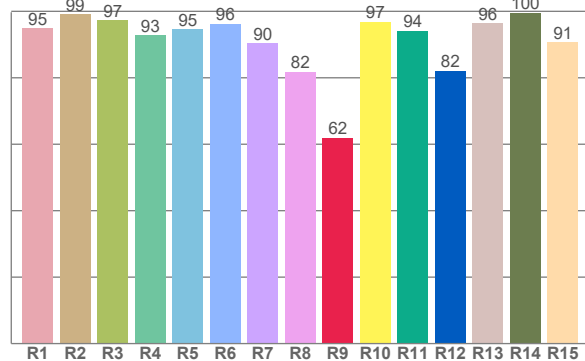




TM30: 90.9



CRI: 93.4 (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
94.8	99.1	97.3	92.9	94.6	96.2	90.3	81.8	62.0	96.9	94.2	82.2	96.5	99.6	90.7

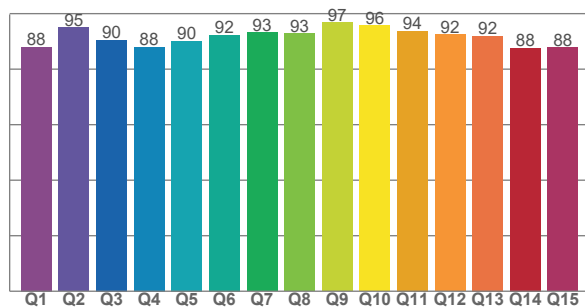
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.8	92.4	92.6	92.8	94.9	96.3	91.2	95.2	90.5	87.3	88.6	90.2	90.4	87.2	87.8	85.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88.0	94.9	90.5	88.0	90.1	92.4	93.2	92.8	96.7	95.7	93.8	92.5	92.0	87.7	87.8

CQS: 91.1



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	93.4	62.0	90.9	97.9	91.1	0.434	0.398	0.251	0.346	-0.0019

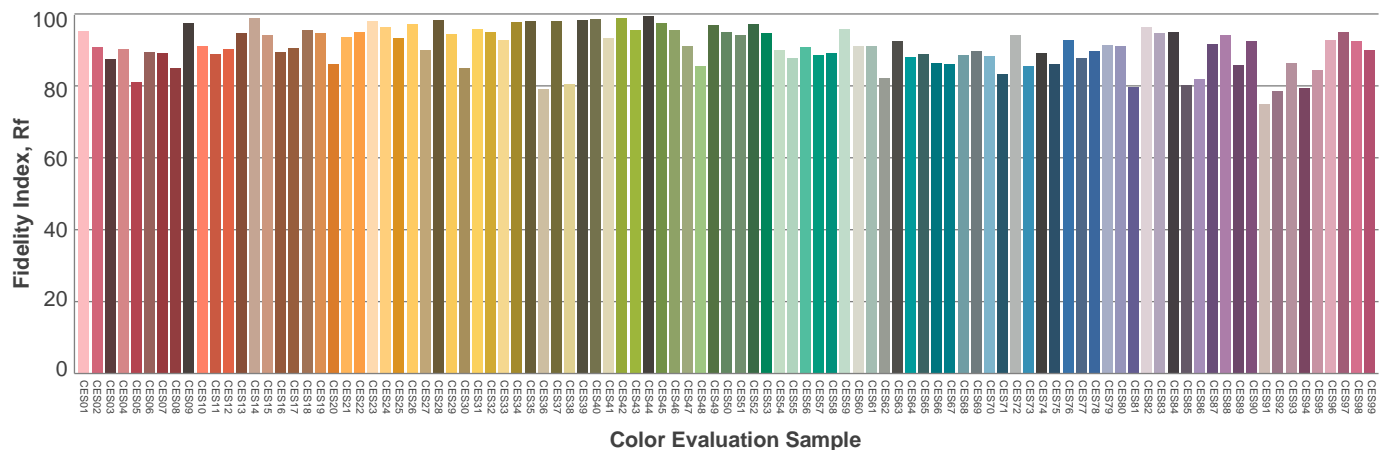
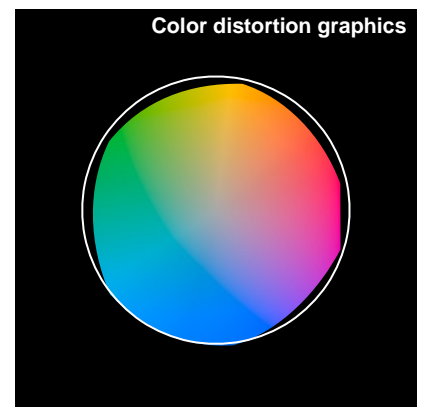
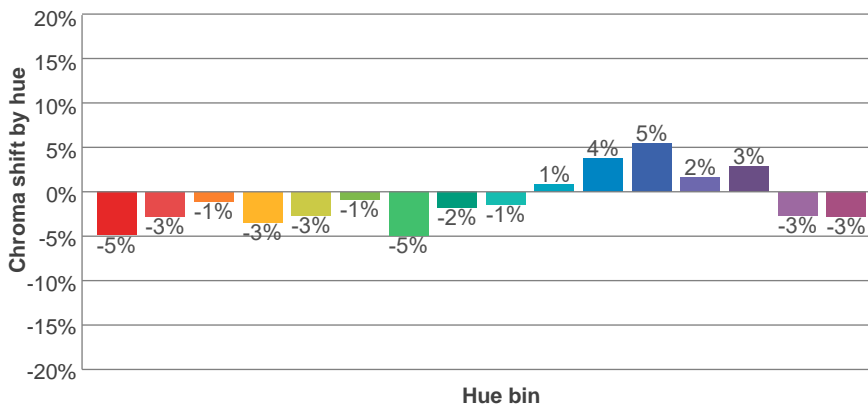
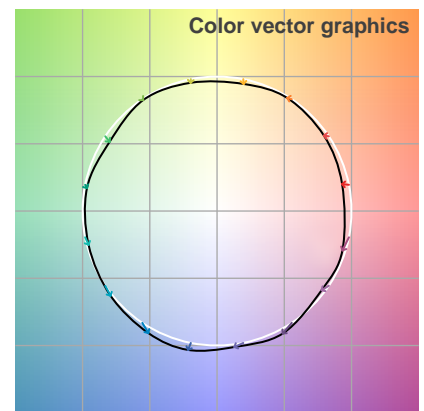
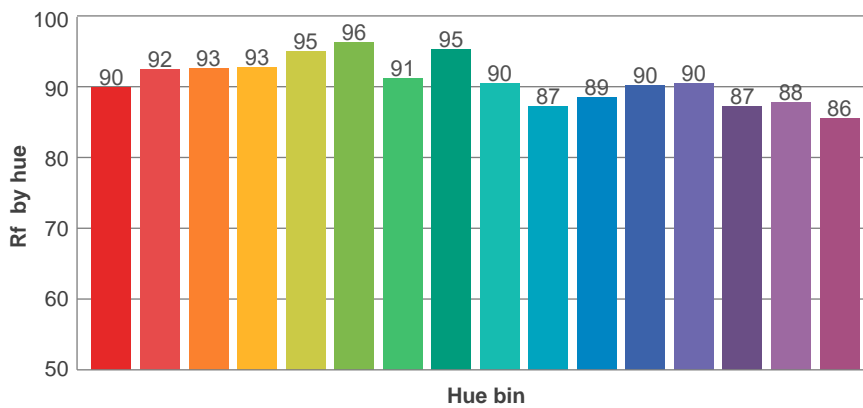
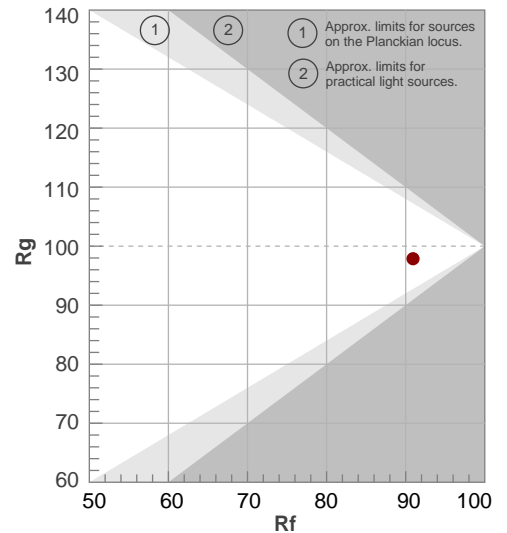
Rf 90.9

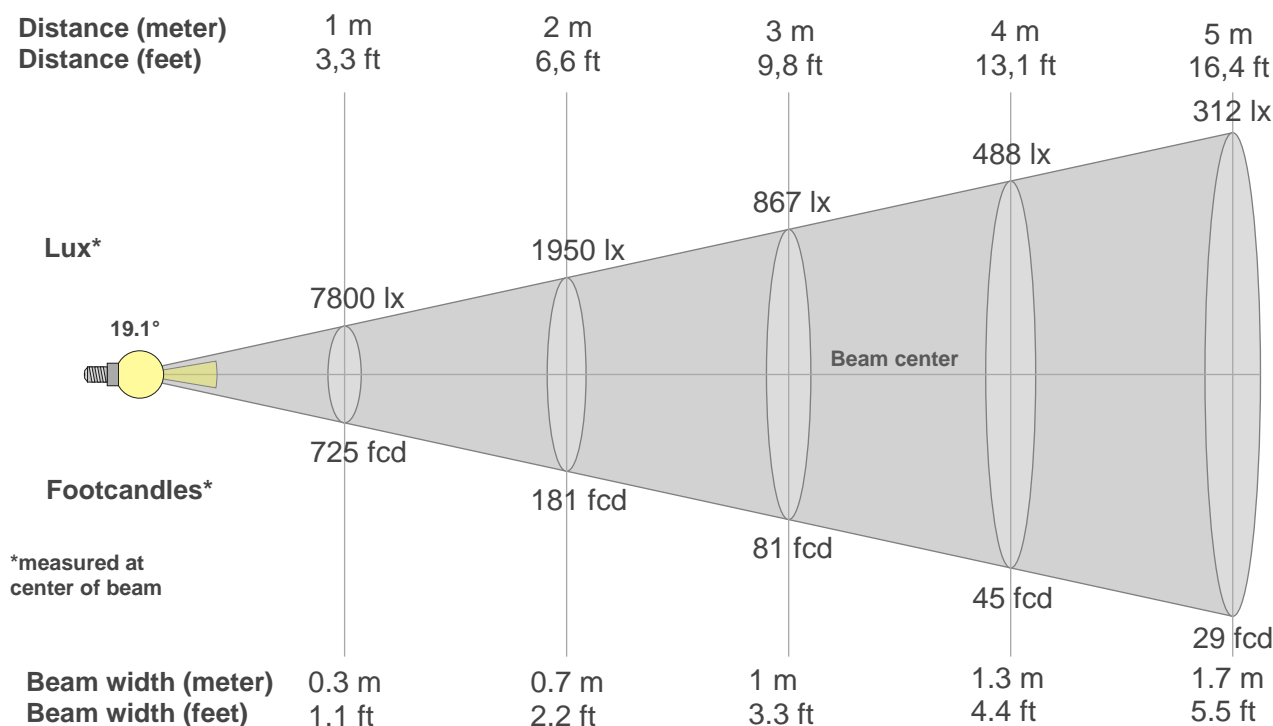
Fidelity index Rf

Rg 97.9

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	92	-3%	2%
3	93	-1%	3%
4	93	-3%	-1%
5	95	-3%	1%
6	96	-1%	0%
7	91	-5%	2%
8	95	-2%	2%
9	90	-1%	6%
10	87	1%	8%
11	89	4%	8%
12	90	5%	-1%
13	90	2%	-7%
14	87	3%	-10%
15	88	-3%	-6%
16	86	-3%	-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
7800lx	1950lx	867lx	488lx	312lx	217lx	159lx	122lx	96lx	78lx	64lx	54lx	46lx	40lx	35lx	30lx	27lx	24lx	22lx	20lx
724.7fc	181.2fc	80.5fc	45.3fc	29fc	20.1fc	14.8fc	11.3fc	8.9fc	7.2fc	6fc	5fc	4.3fc	3.7fc	3.2fc	2.8fc	2.5fc	2.2fc	2fc	1.8fc

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°
7800	7645	7061	6081	4845	3628	2640	1936	1473	1147	921	757	645	554	487	408	313	219	139	77
100%	98%	91%	78%	62%	47%	34%	25%	19%	15%	12%	10%	8%	7%	6%	5%	4%	3%	2%	1%

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°
7800	7658	7166	6226	4959	3661	2611	1865	1372	1045	839	695	602	525	460	366	274	191	119	64
100%	98%	92%	80%	64%	47%	33%	24%	18%	13%	11%	9%	8%	7%	6%	5%	4%	2%	2%	1%

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°
7800	7612	7083	6131	4876	3626	2637	1946	1475	1158	935	779	668	580	504	413	317	226	140	75
100%	98%	91%	79%	63%	46%	34%	25%	19%	15%	12%	10%	9%	7%	6%	5%	4%	3%	2%	1%

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°
7800	7666	7143	6190	4919	3670	2655	1948	1486	1179	955	789	668	572	497	425	345	258	178	110
100%	98%	92%	79%	63%	47%	34%	25%	19%	15%	12%	10%	9%	7%	6%	5%	4%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
19.1°	43.4°	69.4°	99.3%	98.8%