

Light efficiency:

75 Lumen/Watt

Light quality:

CRI: 93.2

Color temperature:

2978 K

Output: 1860 lm

Peak: 8547 cd

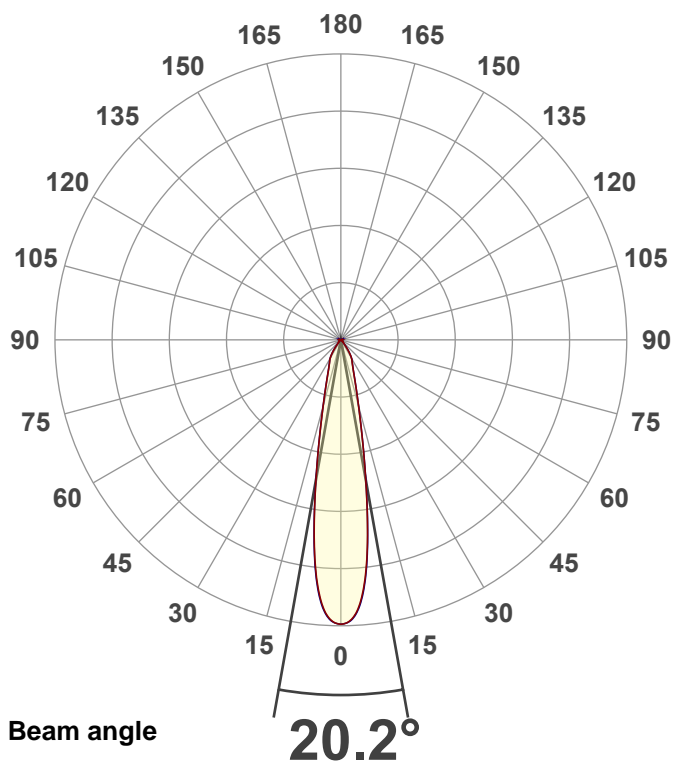
Power: 24.7 W

PF: 0.98



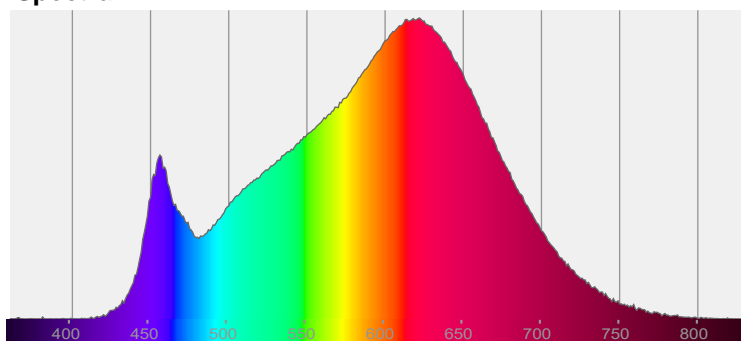
NU4-RD-TW-20LM-2765-95-20D-NL-WH-WH

Date and time:
3/24/2023 3:35:18 PM

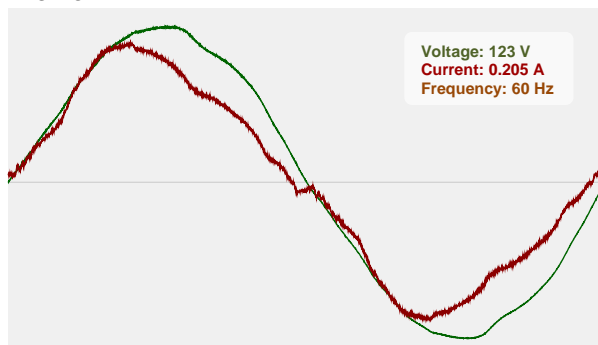


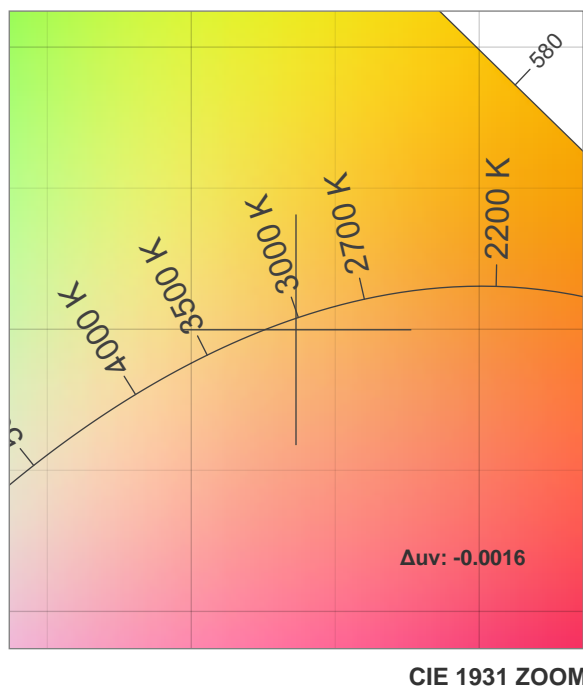
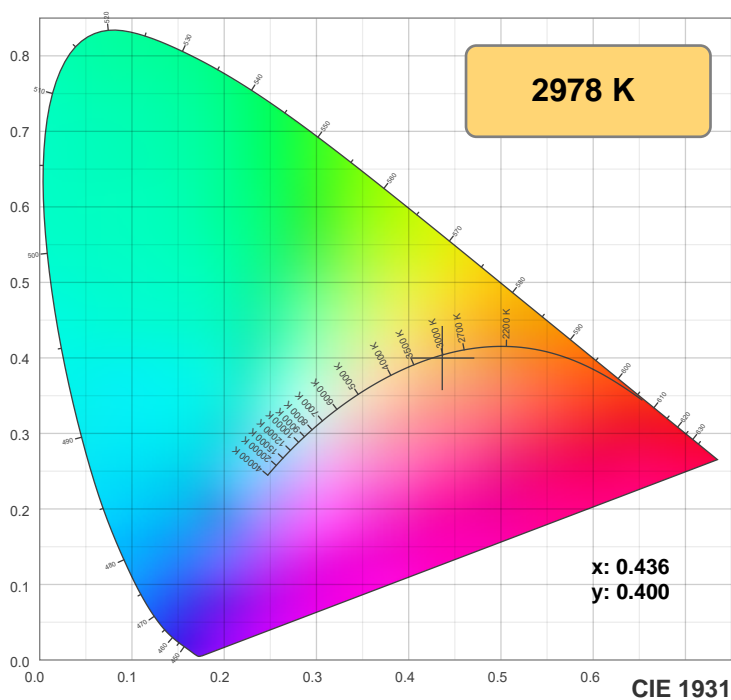
CIE 1931
x: 0.436
y: 0.400

Spectra

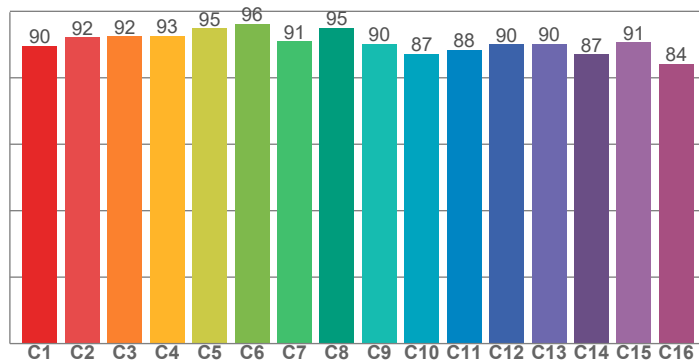


Power

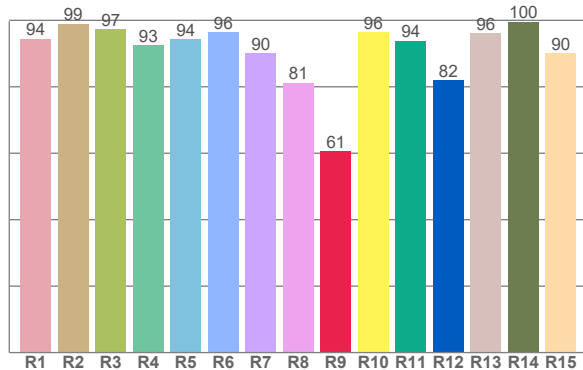




TM30: 90.8



CRI: 93.2 (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
94.4	98.9	97.3	92.6	94.2	96.3	90.1	81.2	60.5	96.5	93.9	82.0	96.1	99.6	90.2

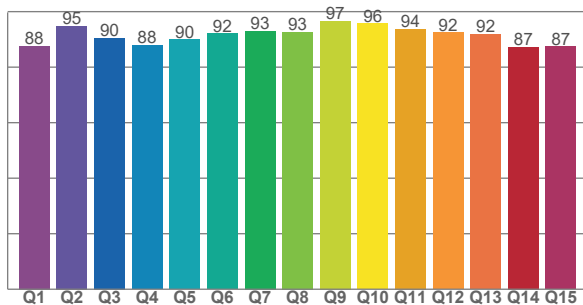
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.6	92.2	92.5	92.7	94.9	96.2	91.0	95.1	90.3	87.1	88.5	90.0	90.3	87.0	90.6	84.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.7	94.8	90.5	87.9	90.0	92.1	93.1	92.7	96.6	95.7	93.8	92.4	91.8	87.3	87.5

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
2978 K	93.2	60.5	90.8	97.5	91.0	0.436	0.400	0.252	0.346	-0.0016

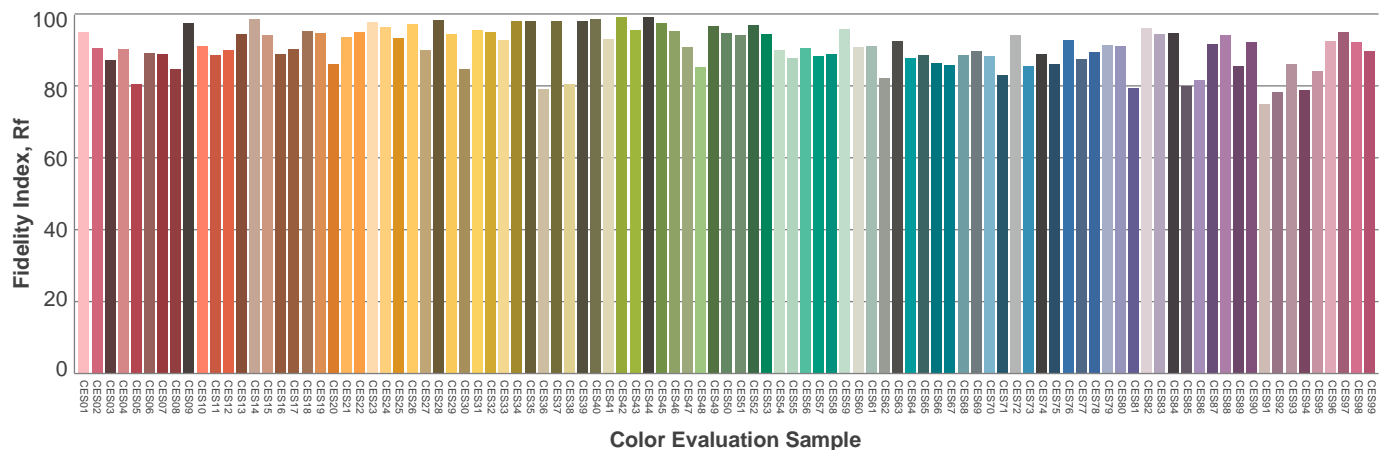
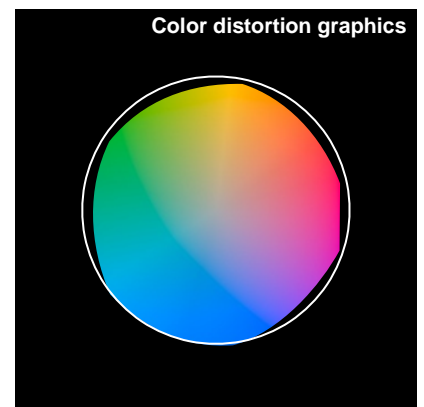
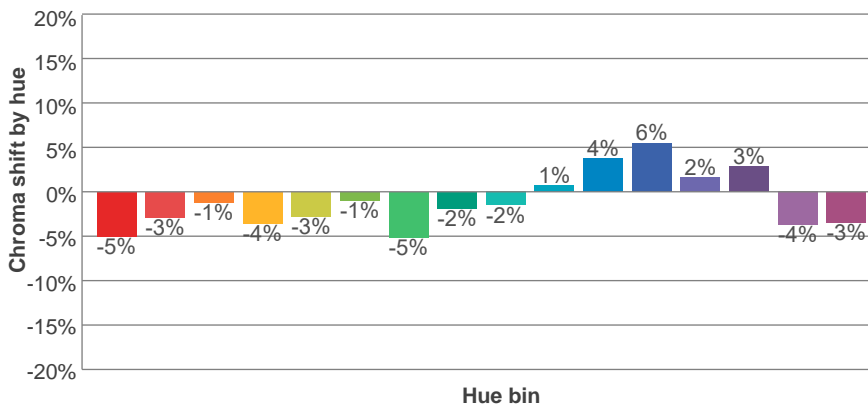
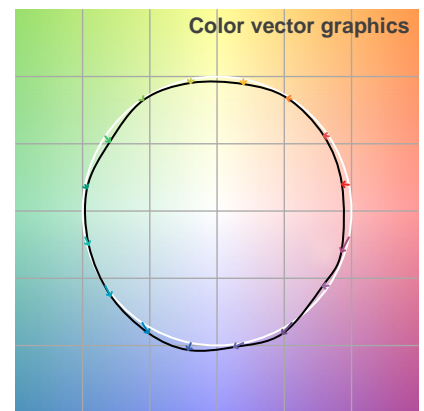
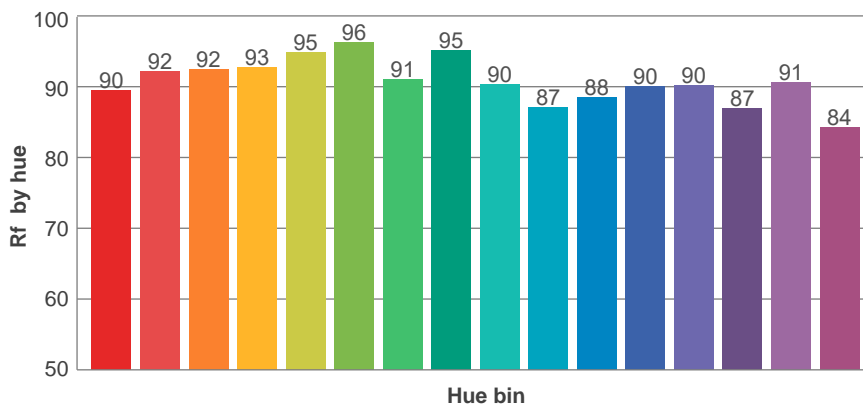
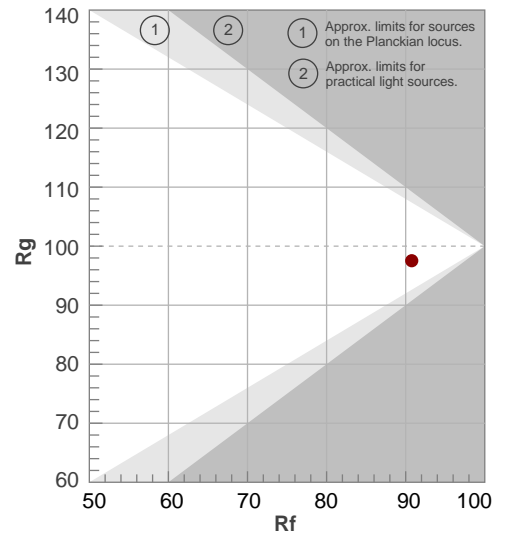
Rf 90.8

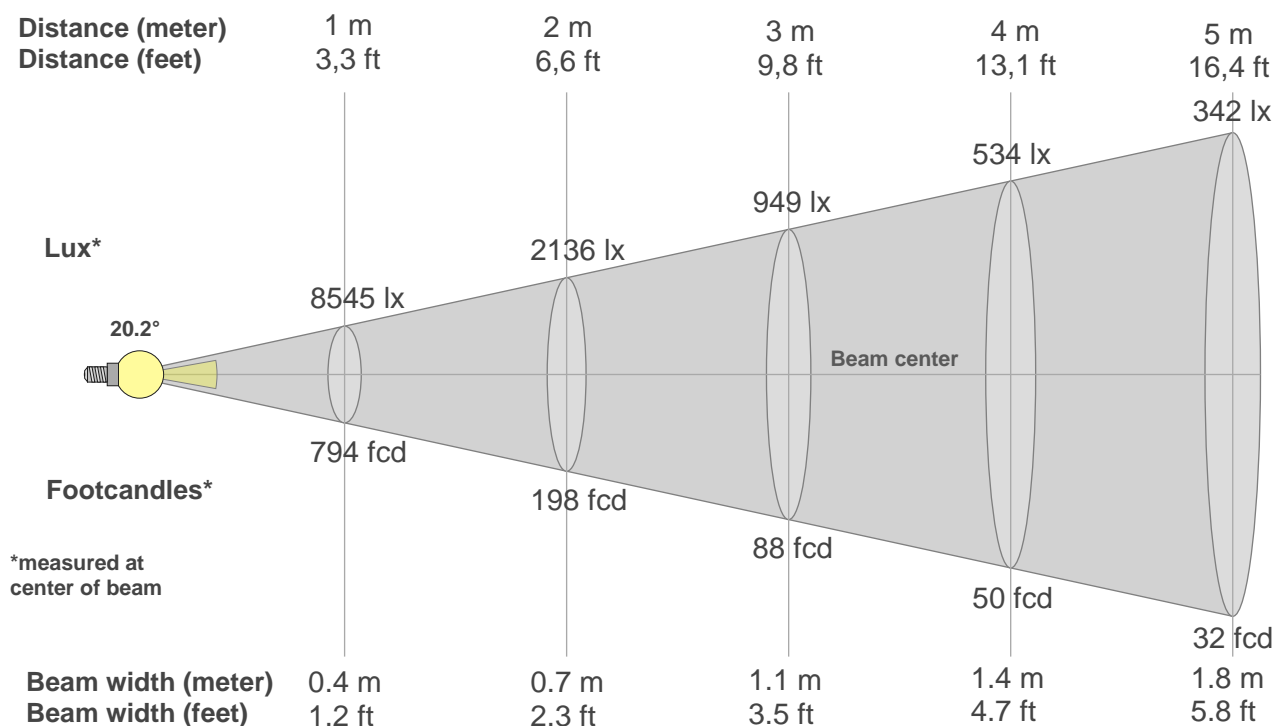
Fidelity index Rf

Rg 97.5

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	92	-3%	3%
3	92	-1%	3%
4	93	-4%	-1%
5	95	-3%	1%
6	96	-1%	0%
7	91	-5%	2%
8	95	-2%	2%
9	90	-2%	6%
10	87	1%	8%
11	88	4%	8%
12	90	6%	-1%
13	90	2%	-7%
14	87	3%	-10%
15	91	-4%	-3%
16	84	-3%	-12%





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
8545lx	2136lx	949lx	534lx	342lx	237lx	174lx	134lx	105lx	85lx	71lx	59lx	51lx	44lx	38lx	33lx	30lx	26lx	24lx	21lx
793.9fcd	198.5fcd	88.2fcd	49.6fcd	31.8fcd	22.1fcd	16.2fcd	12.4fcd	9.8fcd	7.9fcd	6.6fcd	5.5fcd	4.7fcd	4.1fcd	3.5fcd	3.1fcd	2.7fcd	2.5fcd	2.2fcd	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°
8545	8424	7981	7083	5759	4334	3178	2363	1817	1449	1192	1008	878	782	712	643	548	429	304	194
100%	99%	93%	83%	67%	51%	37%	28%	21%	17%	14%	12%	10%	9%	8%	8%	6%	5%	4%	2%

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°
8545	8445	8027	7142	5789	4334	3173	2351	1814	1449	1189	1009	882	788	716	642	542	430	308	196
100%	99%	94%	84%	68%	51%	37%	28%	21%	17%	14%	12%	10%	9%	8%	8%	6%	5%	4%	2%

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°
8545	8424	7981	7083	5759	4334	3178	2363	1817	1449	1192	1008	878	782	712	643	548	429	304	194
100%	99%	93%	83%	67%	51%	37%	28%	21%	17%	14%	12%	10%	9%	8%	8%	6%	5%	4%	2%

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°
8545	8445	8027	7142	5789	4334	3173	2351	1814	1449	1189	1009	882	788	716	642	542	430	308	196
100%	99%	94%	84%	68%	51%	37%	28%	21%	17%	14%	12%	10%	9%	8%	8%	6%	5%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.2°	48.9°	75.2°	99.4%	99.2%