

Light efficiency:

79 Lumen/Watt

Light quality:

CRI: 93.2

Color temperature:

3016 K

Output: 1952 lm

Peak: 8644 cd

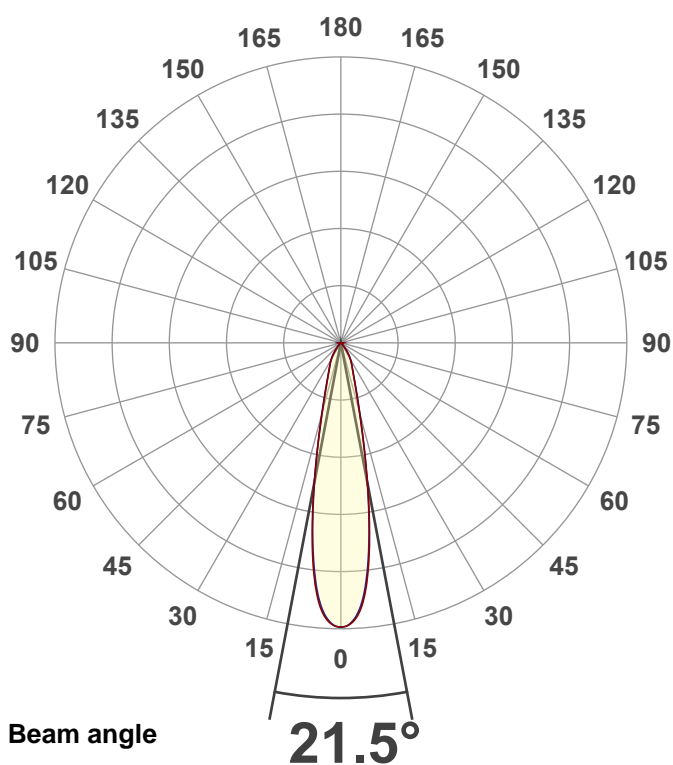
Power: 24.9 W

PF: 0.98



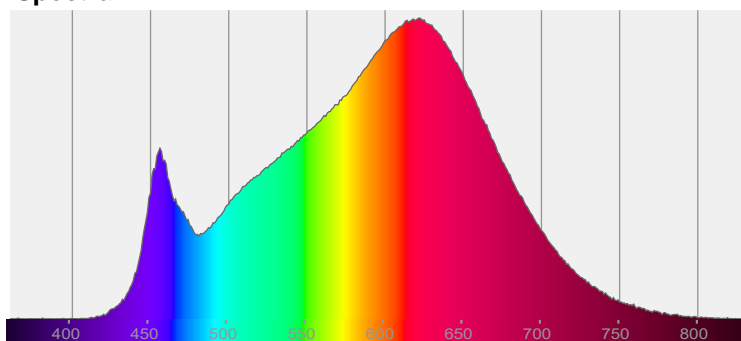
NU4-RD-TW-20LM-2765-95-20D-SBL-WH-WH

Date and time:  
3/27/2023 11:08:06 AM

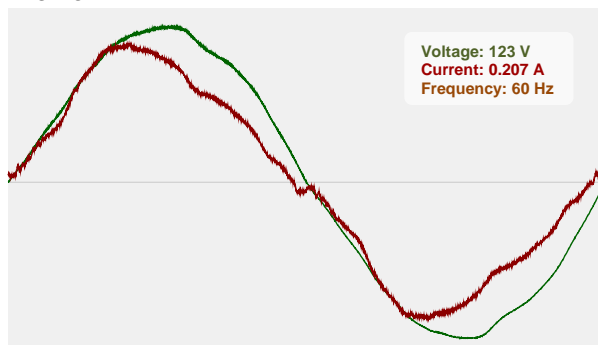


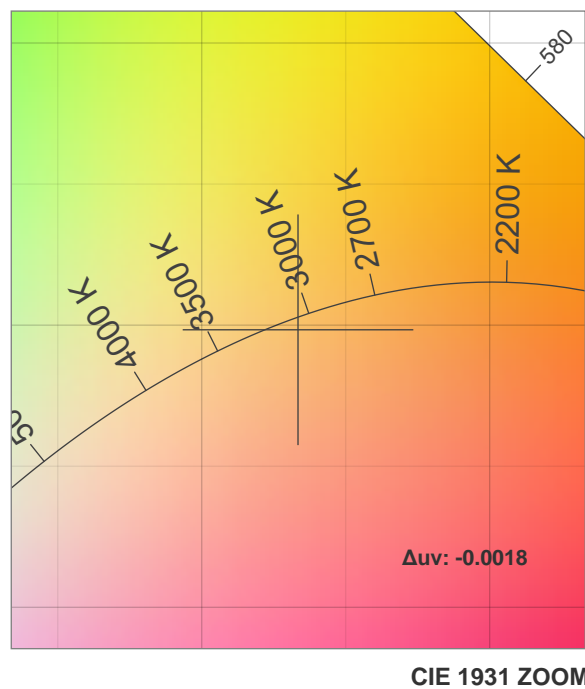
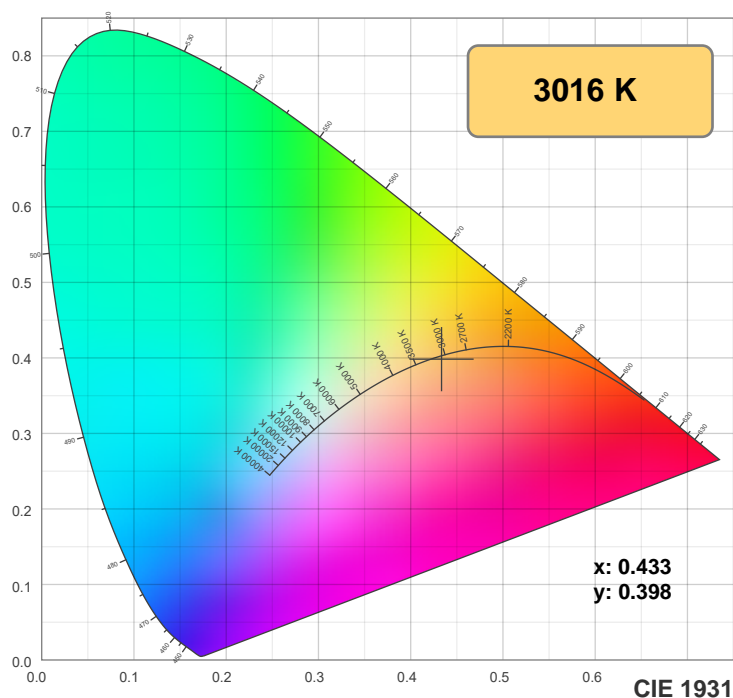
CIE 1931  
x: 0.433  
y: 0.398

Spectra

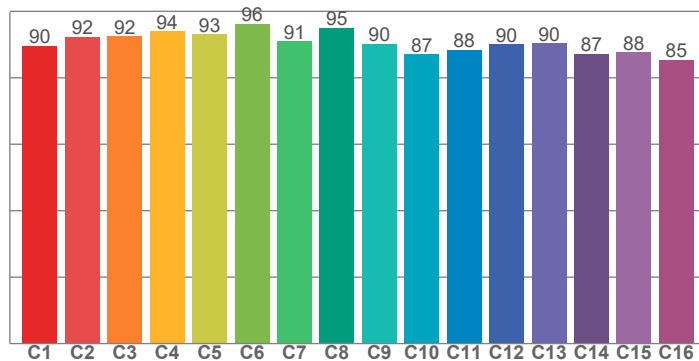


Power

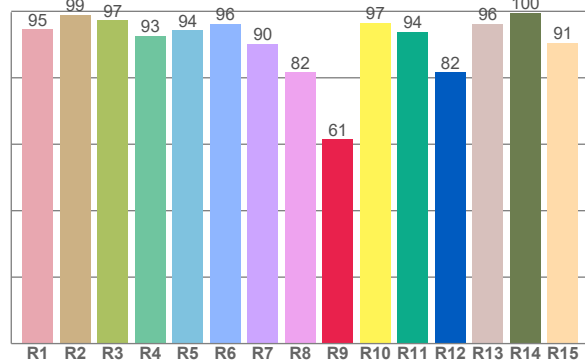




TM30: 90.8



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
94.6	99.0	97.3	92.6	94.3	96.3	90.3	81.6	61.5	96.5	93.8	81.8	96.2	99.6	90.5

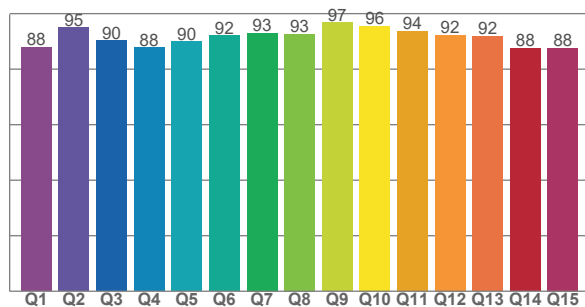
TM30 C values, 16 binned values out of total of 99 C values

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	96.3	91.0	95.1	90.3	87.0	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	92.7	96.8	95.6	93.7	92.4	91.9	87.5	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
3016 K	93.2	61.5	90.8	97.7	91.0	0.433	0.398	0.251	0.346	-0.0018

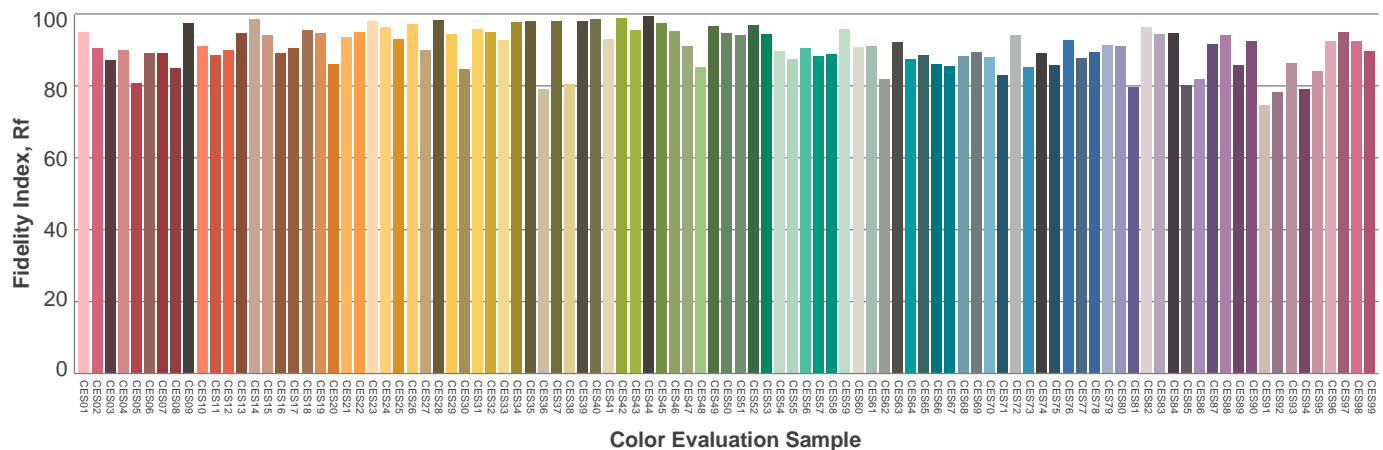
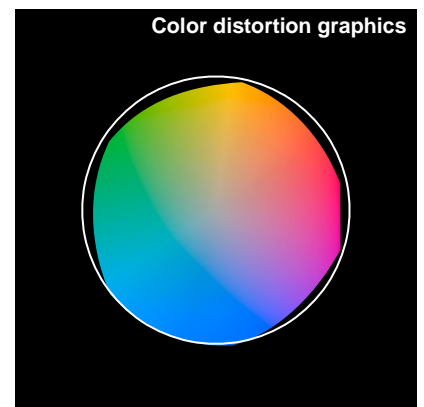
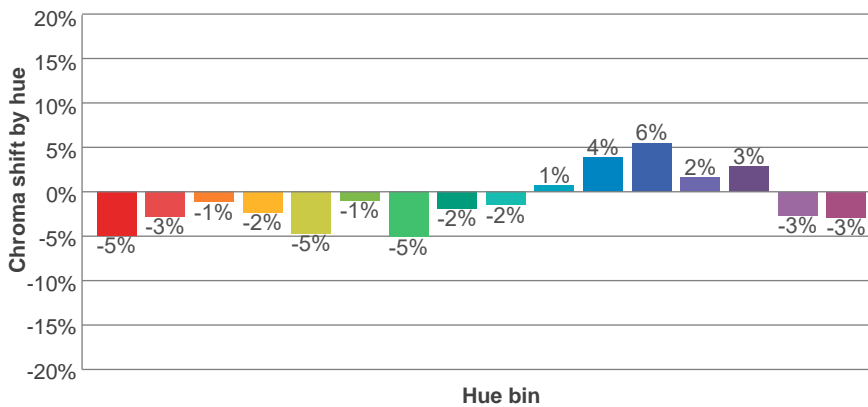
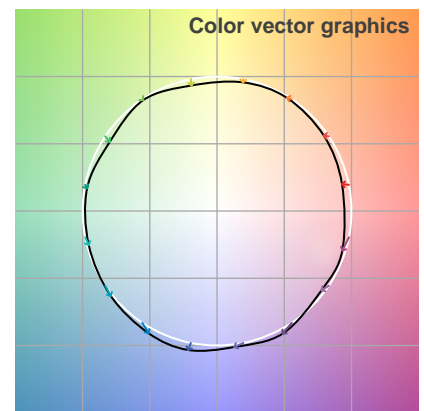
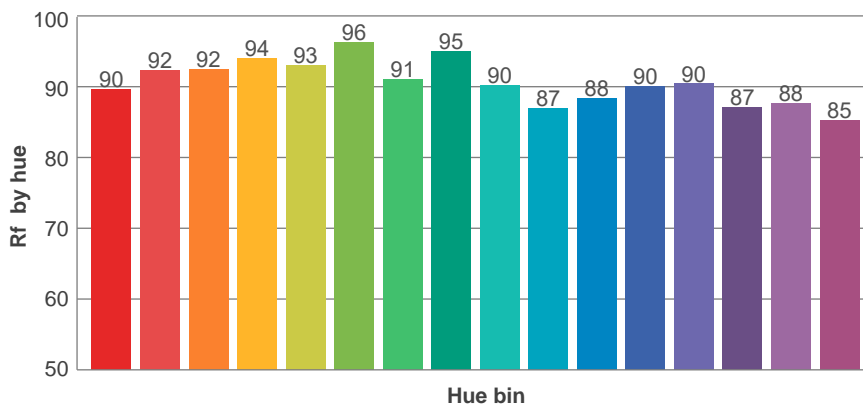
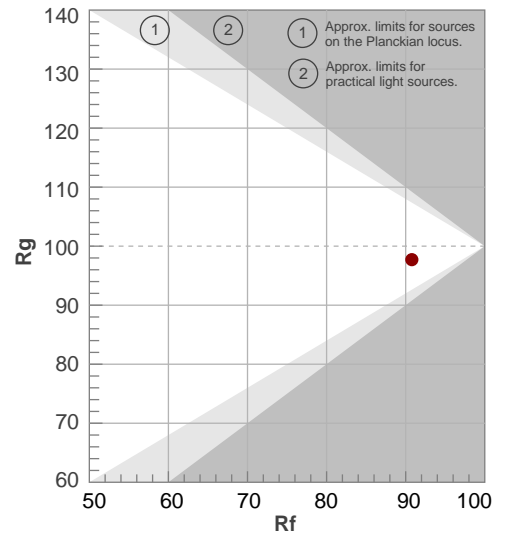
**Rf 90.8**

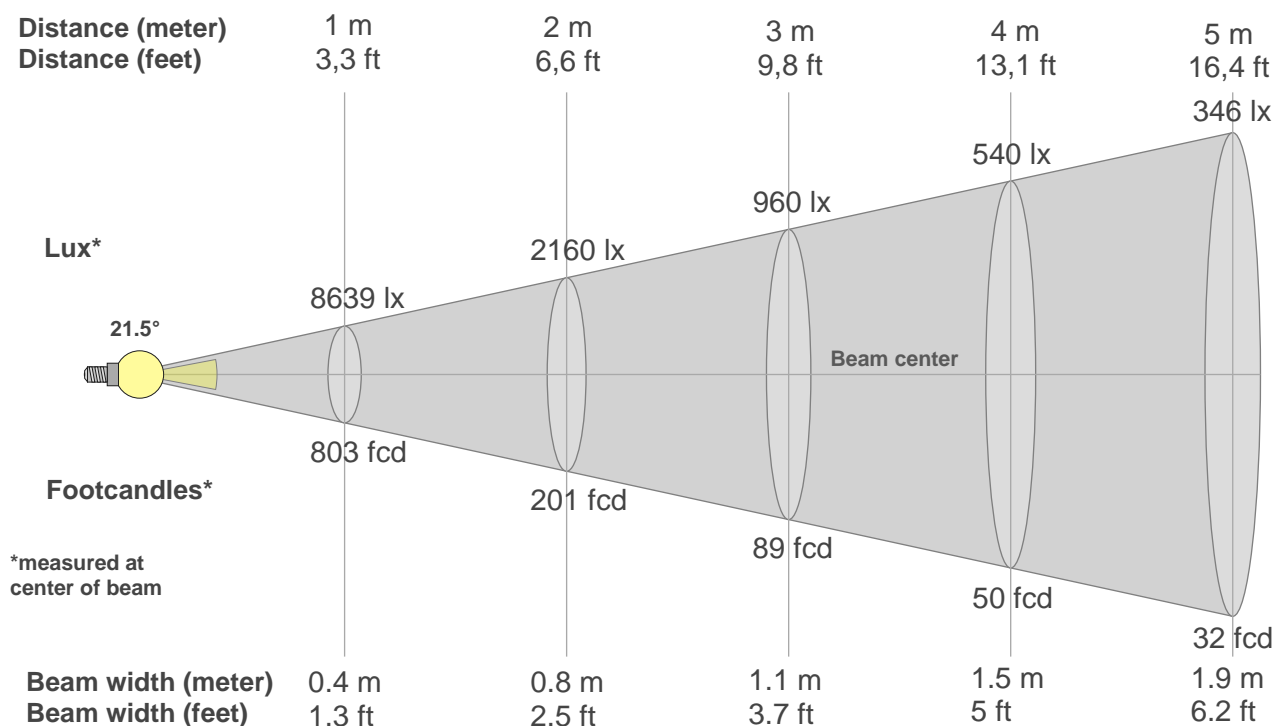
Fidelity index Rf

**Rg 97.7**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	92	-3%	2%
3	92	-1%	3%
4	94	-2%	0%
5	93	-5%	0%
6	96	-1%	0%
7	91	-5%	2%
8	95	-2%	2%
9	90	-2%	6%
10	87	1%	9%
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
8639lx	2160lx	960lx	540lx	346lx	240lx	176lx	135lx	107lx	86lx	71lx	60lx	51lx	44lx	38lx	34lx	30lx	27lx	24lx	22lx
802.6fc	200.6fc	89.2fcd	50.2fcd	32.1fcd	22.3fcd	16.4fcd	12.5fcd	9.9fcd	8fcd	6.6fcd	5.6fcd	4.7fcd	4.1fcd	3.6fcd	3.1fcd	2.8fcd	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°
8639	8541	8182	7410	6233	4849	3551	2556	1894	1470	1194	1003	864	759	667	578	485	387	291	205
100%	99%	95%	86%	72%	56%	41%	30%	22%	17%	14%	12%	10%	9%	8%	7%	6%	4%	3%	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°
8639	8517	8106	7298	6121	4790	3551	2598	1947	1512	1216	1011	868	764	678	592	501	400	298	207
100%	99%	94%	84%	71%	55%	41%	30%	23%	18%	14%	12%	10%	9%	8%	7%	6%	5%	3%	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°
8639	8541	8182	7410	6233	4849	3551	2556	1894	1470	1194	1003	864	759	667	578	485	387	291	205
100%	99%	95%	86%	72%	56%	41%	30%	22%	17%	14%	12%	10%	9%	8%	7%	6%	4%	3%	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°
8639	8517	8106	7298	6121	4790	3551	2598	1947	1512	1216	1011	868	764	678	592	501	400	298	207
100%	99%	94%	84%	71%	55%	41%	30%	23%	18%	14%	12%	10%	9%	8%	7%	6%	5%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.5°	48.2°	75.6°	99.6%	98.5%