

Light efficiency:

71 Lumen/Watt

Light quality:

CRI: 93.3

Color temperature:

3046 K

Output: 1110 lm

Peak: 4490 cd

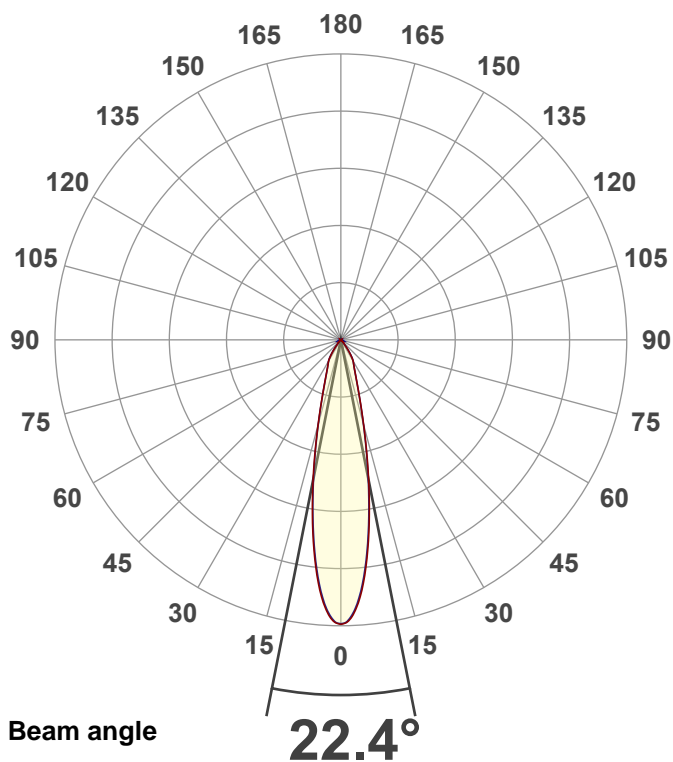
Power: 15.6 W

PF: 0.97



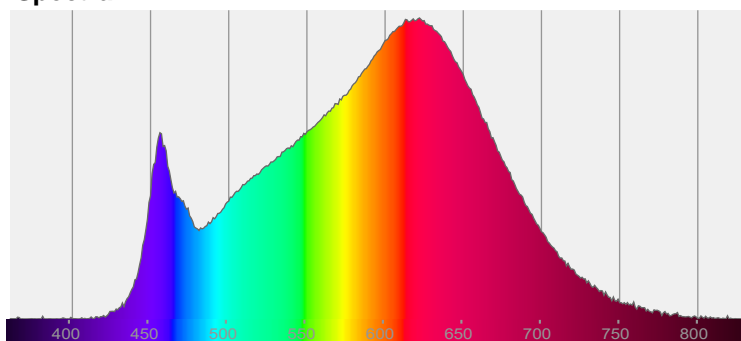
NU4-RD-TW-10LM-2765-95-20D-NL-WH-WH

Date and time:  
3/29/2023 11:19:24 AM

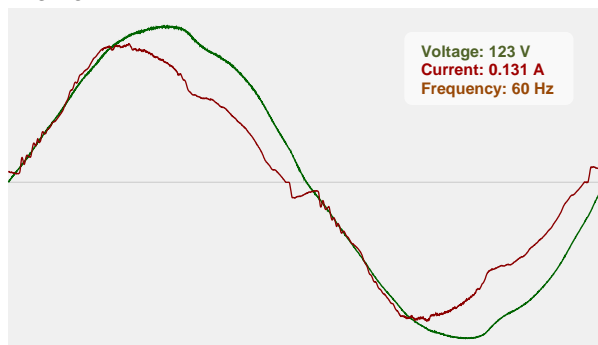


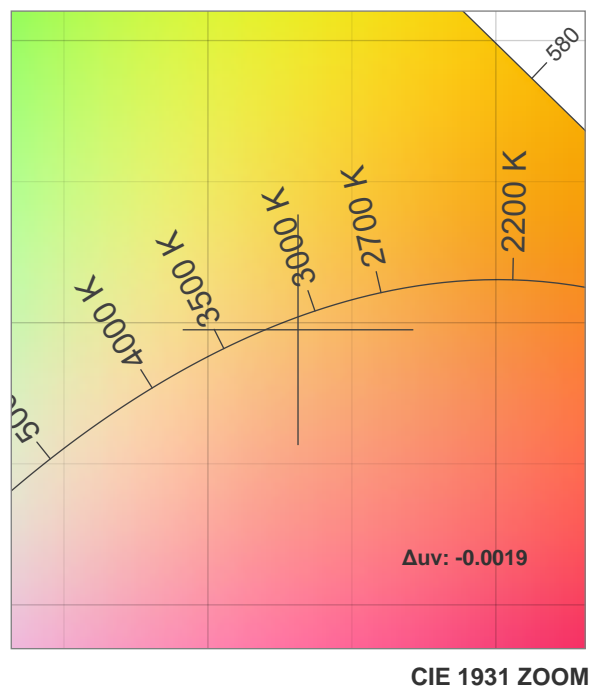
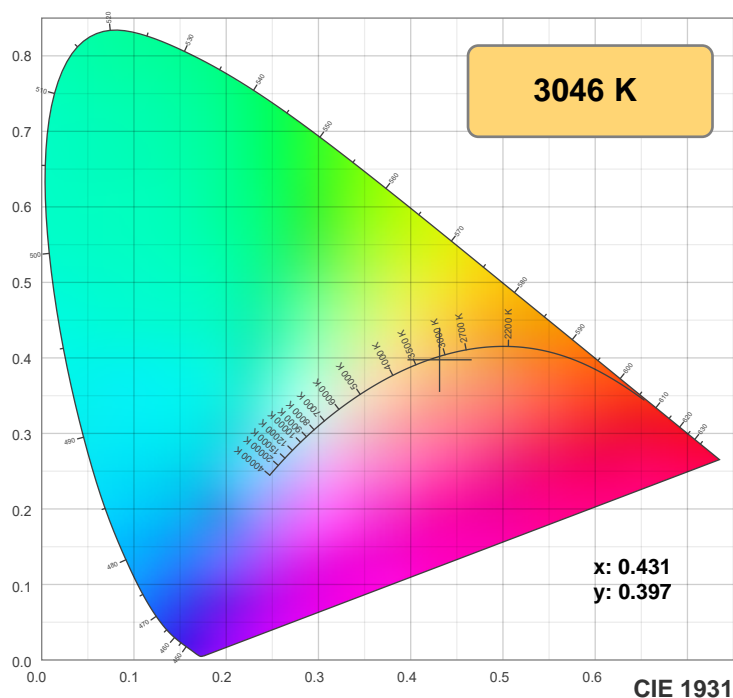
CIE 1931  
x: 0.431  
y: 0.397

Spectra

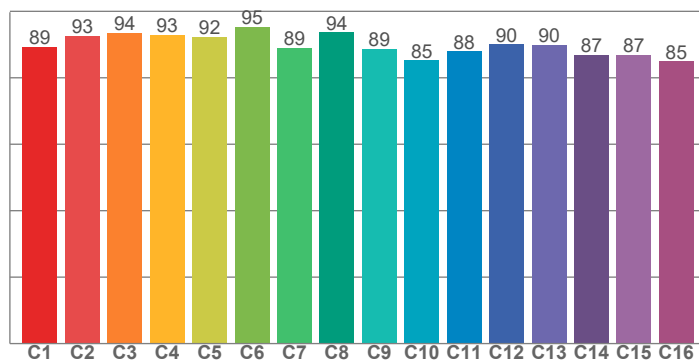


Power

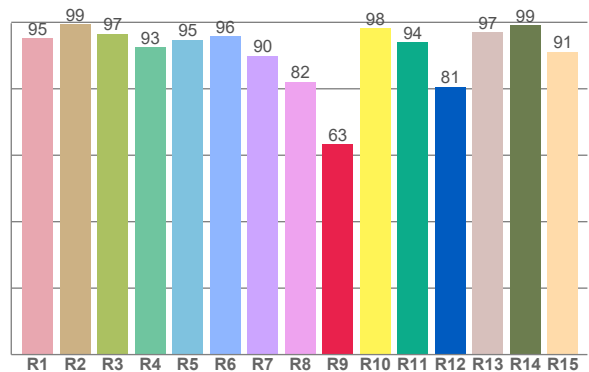




TM30: 90.2



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
95.2	99.4	96.6	92.6	94.7	95.8	90.0	82.1	63.3	98.3	94.0	80.6	97.0	99.1	91.2

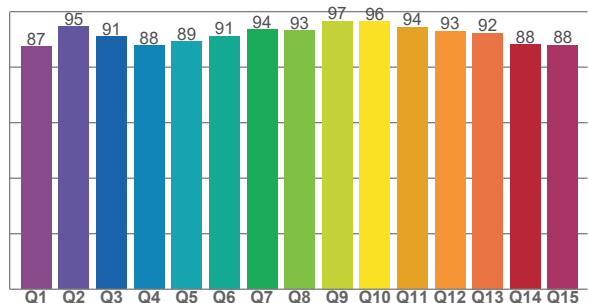
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.3	92.5	93.5	92.9	92.3	95.4	89.0	93.7	88.8	85.2	88.0	90.0	89.8	86.9	86.9	84.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.4	94.6	91.0	87.8	89.1	91.3	93.6	93.2	96.6	96.4	94.4	92.9	92.2	88.1	88.0

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	$\Delta uv$
3046 K	93.3	63.3	90.2	97.0	91.1	0.431	0.397	0.250	0.345	-0.0019

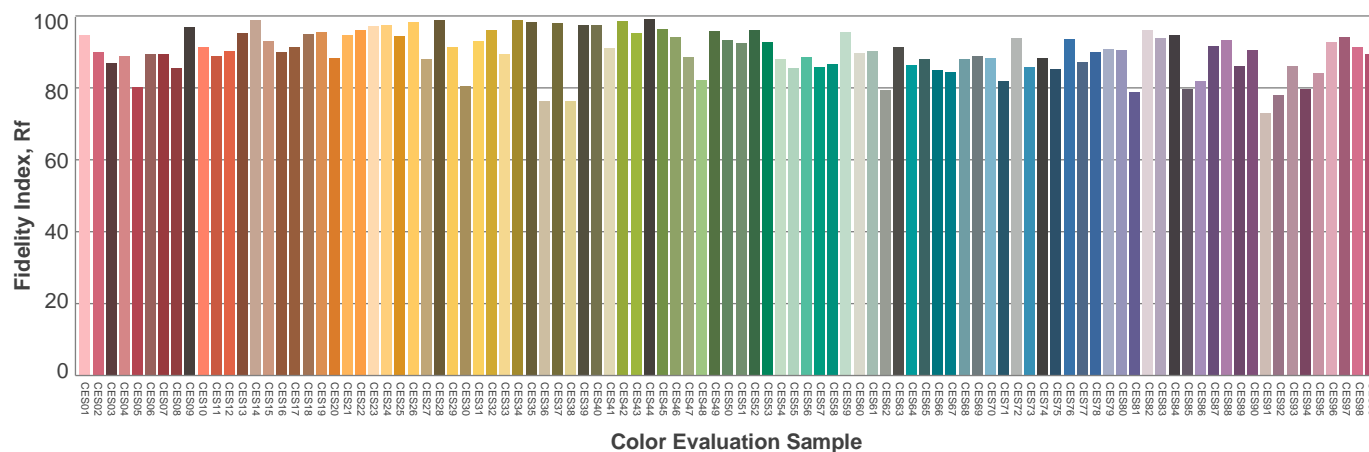
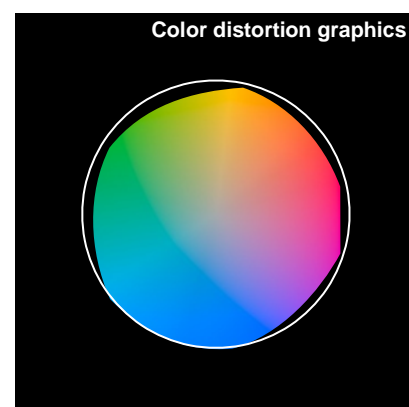
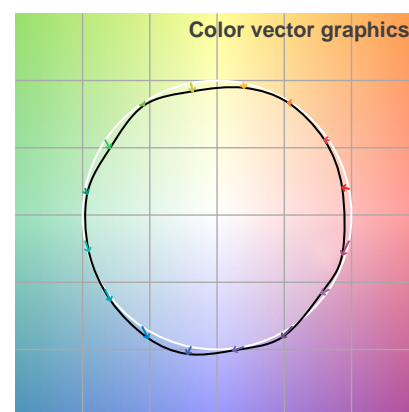
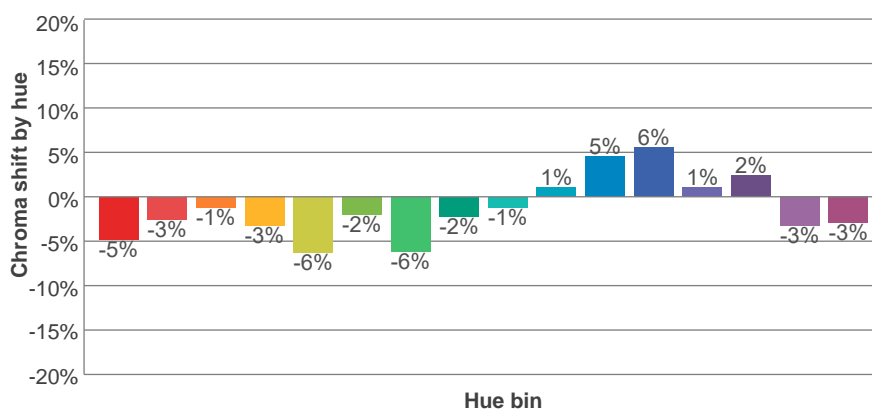
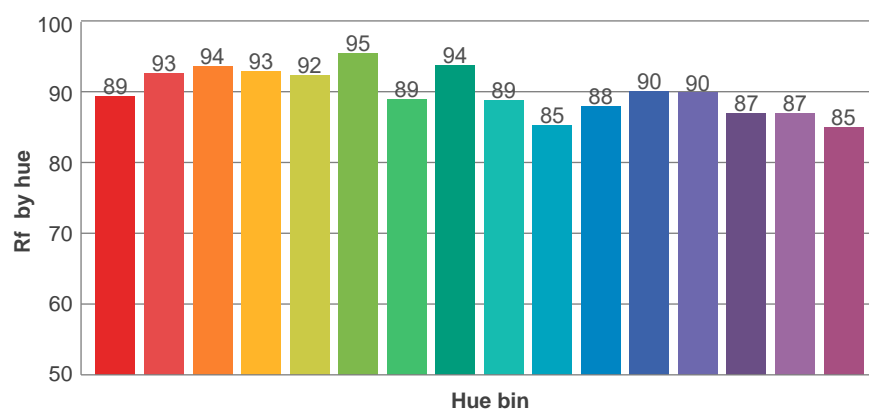
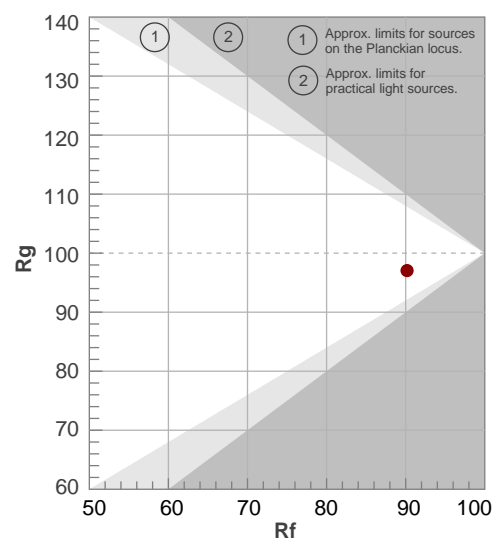
## Rf 90.2

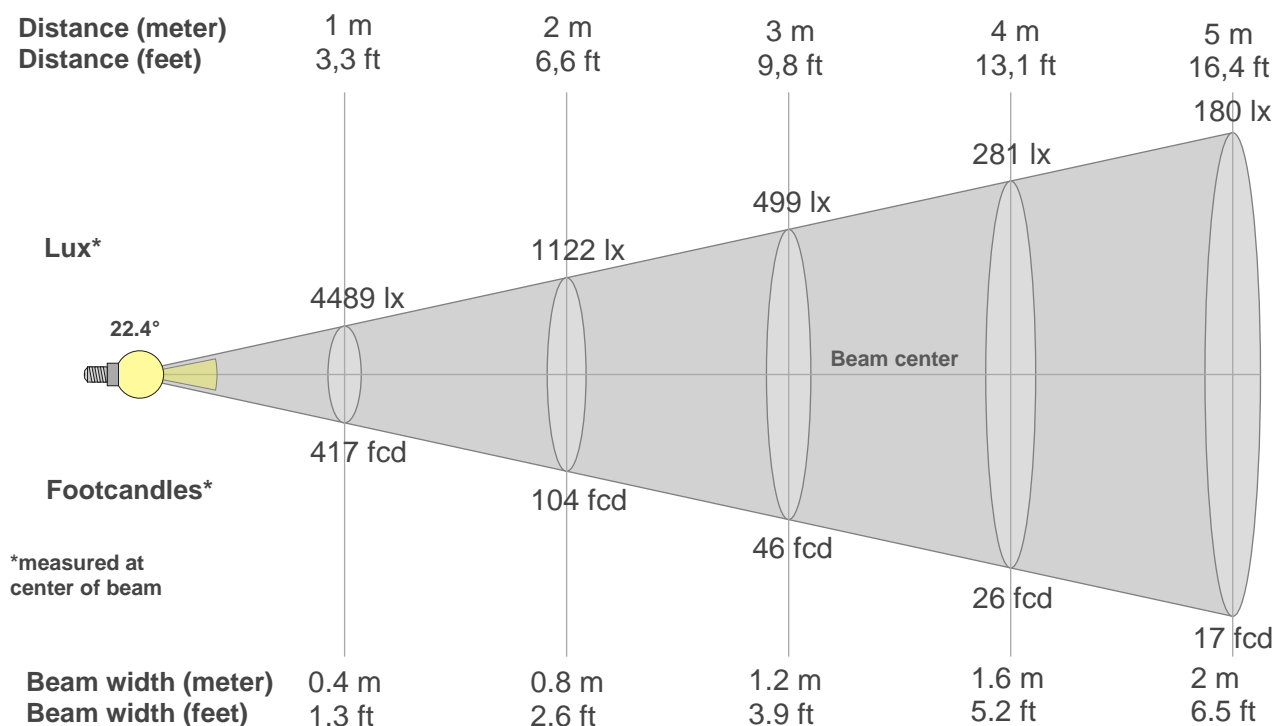
### Fidelity index $R_f$

**Rg 97.0**

## Gammut index Rg

		Graphic shifts (%)	
Hue Bin	$R_f$	Chroma	Hue
1	89	-5%	2%
2	93	-3%	2%
3	94	-1%	3%
4	93	-3%	-1%
5	92	-6%	0%
6	95	-2%	0%
7	89	-6%	3%
8	94	-2%	3%
9	89	-1%	8%
10	85	1%	9%
11	88	5%	8%
12	90	6%	-2%
13	90	1%	-8%
14	87	2%	-10%
15	87	-3%	-5%
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
4489lx	1122lx	499lx	281lx	180lx	125lx	92lx	70lx	55lx	45lx	37lx	31lx	27lx	23lx	20lx	18lx	16lx	14lx	12lx	11lx
417.1fcd	104.3fcd	46.3fcd	26.1fcd	16.7fcd	11.6fcd	8.5fcd	6.5fcd	5.1fcd	4.2fcd	3.4fcd	2.9fcd	2.5fcd	2.1fcd	1.9fcd	1.6fcd	1.4fcd	1.3fcd	1.2fcd	1fcd

#### 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°
4489	4403	4124	3685	3151	2588	2054	1590	1227	960	773	642	548	478	429	387	324	250	174	105
100%	98%	92%	82%	70%	58%	46%	35%	27%	21%	17%	14%	12%	11%	10%	9%	7%	6%	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°
4489	4383	4088	3640	3102	2540	2015	1564	1207	945	762	633	540	475	426	385	333	255	172	97
100%	98%	91%	81%	69%	57%	45%	35%	27%	21%	17%	14%	12%	11%	9%	9%	7%	6%	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°
4489	4403	4124	3685	3151	2588	2054	1590	1227	960	773	642	548	478	429	387	324	250	174	105
100%	98%	92%	82%	70%	58%	46%	35%	27%	21%	17%	14%	12%	11%	10%	9%	7%	6%	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°
4489	4383	4088	3640	3102	2540	2015	1564	1207	945	762	633	540	475	426	385	333	255	172	97
100%	98%	91%	81%	69%	57%	45%	35%	27%	21%	17%	14%	12%	11%	9%	9%	7%	6%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.4°	54.1°	75.3°	99.0%	98.8%