

Light efficiency:

78 Lumen/Watt

Light quality:

CRI: 93.4

Color temperature:

3033 K

Output: 1889 lm

Peak: 3802 cd

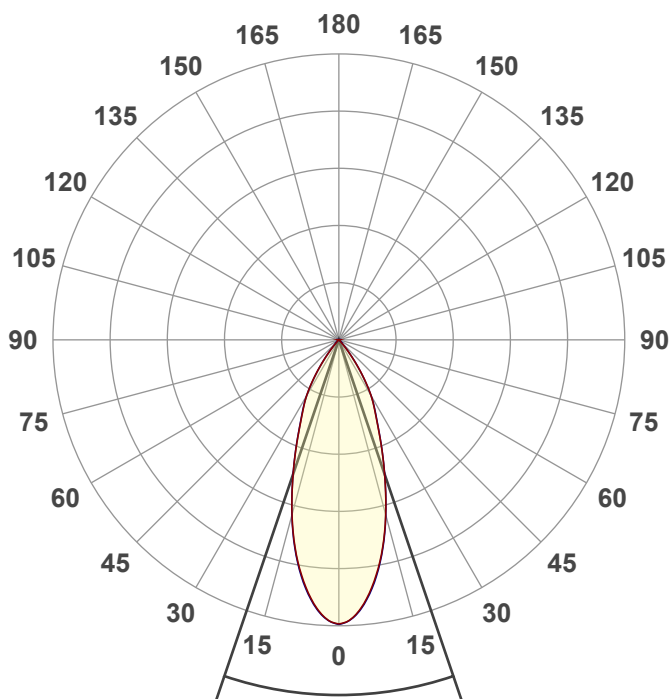
Power: 24.4 W

PF: 0.98



NU4-RD-TW-20LM-2765-95-40D-NL-WH-WH

Date and time:  
3/24/2023 1:09:36 PM



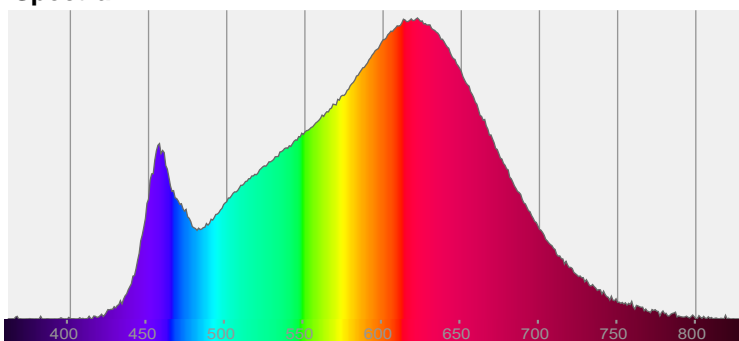
Beam angle

37.6°

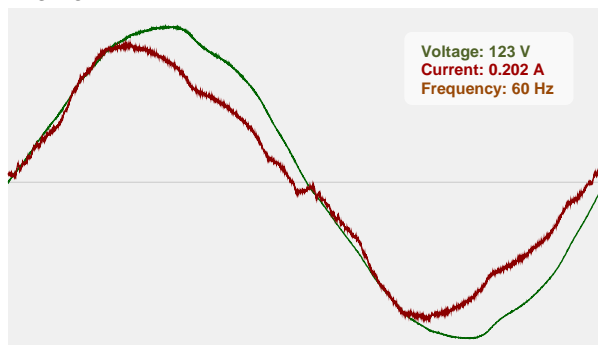


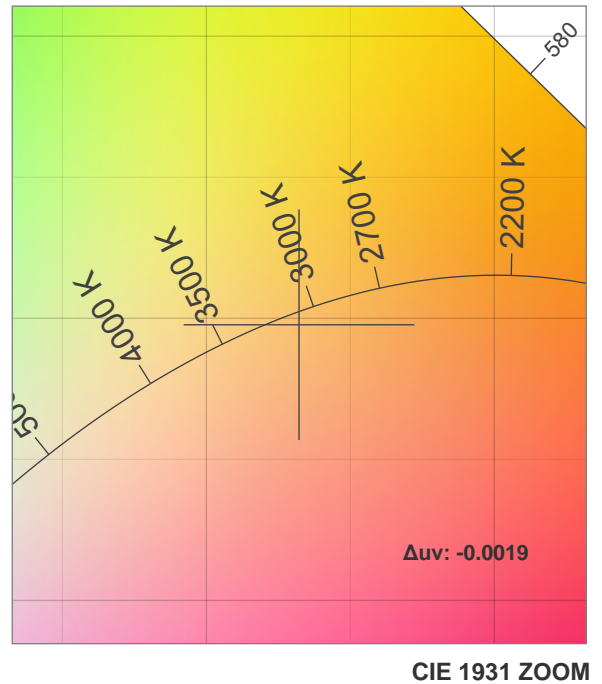
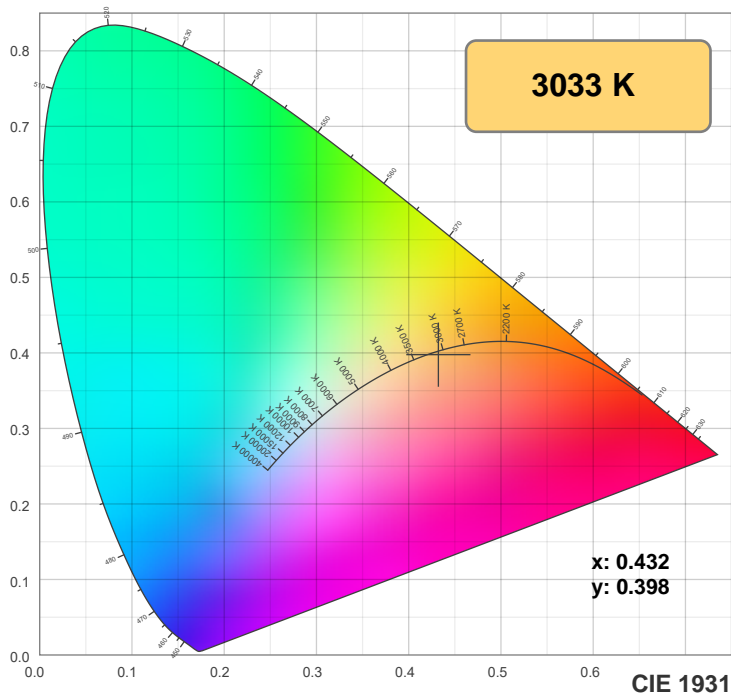
CIE 1931  
x: 0.432  
y: 0.398

Spectra

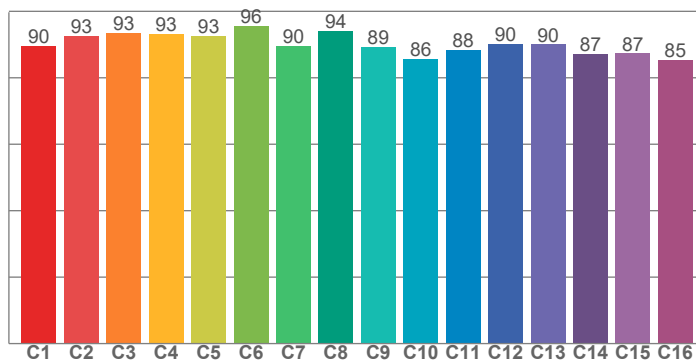


Power

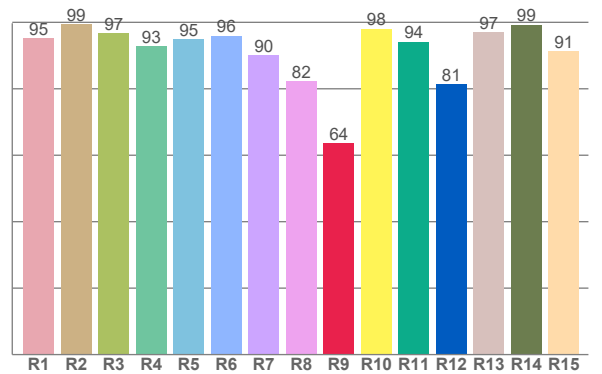




TM30: 90.5



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
95.2	99.4	96.8	92.8	94.8	95.9	90.1	82.4	63.6	98.1	94.2	81.4	97.0	99.2	91.2

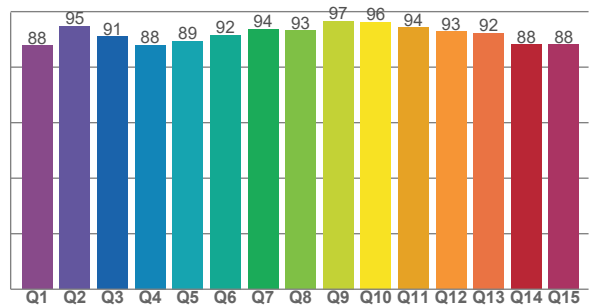
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.6	92.6	93.5	93.3	92.6	95.7	89.7	94.2	89.3	85.8	88.3	90.2	90.1	87.2	87.3	85.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.7	94.7	91.1	88.0	89.5	91.6	93.6	93.2	96.6	96.3	94.3	92.9	92.2	88.1	88.1

CQS: 91.2



## 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	$\Delta uv$
3033 K	93.4	63.6	90.5	97.2	91.2	0.432	0.398	0.250	0.345	-0.0019

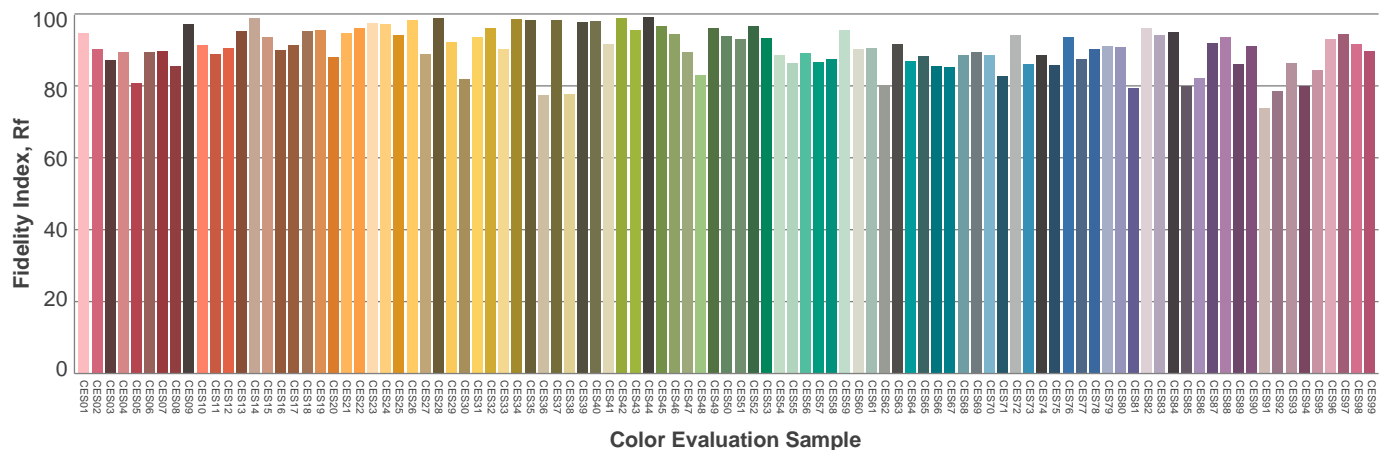
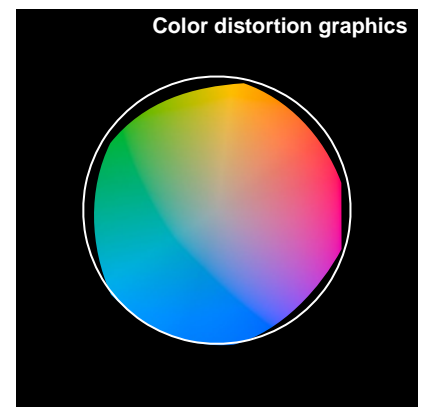
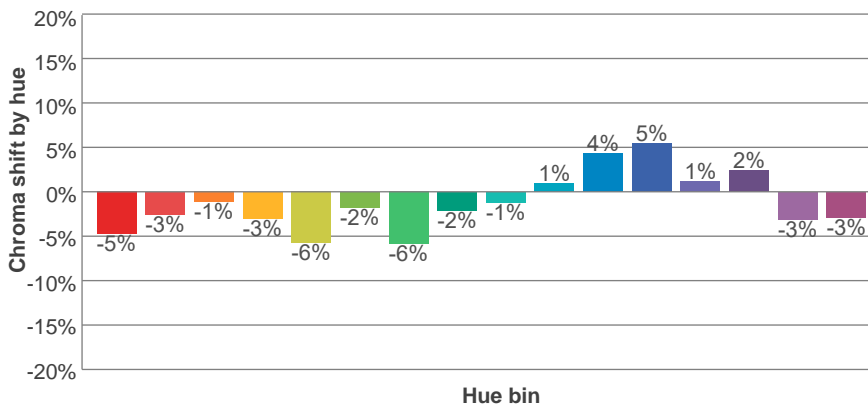
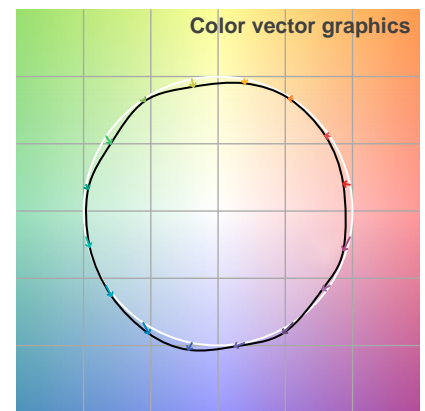
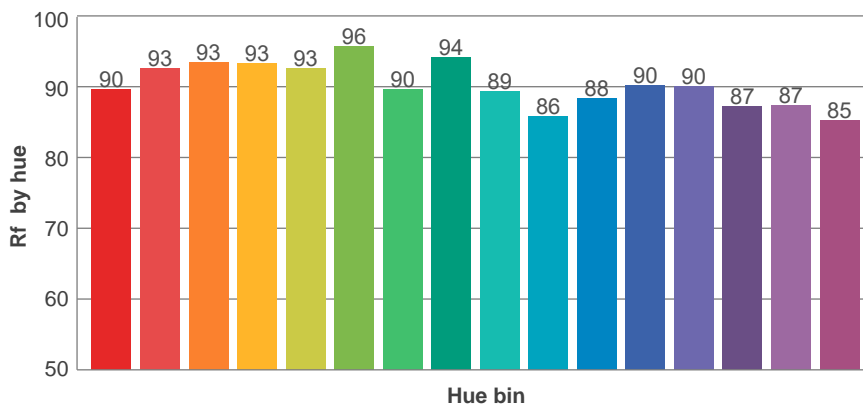
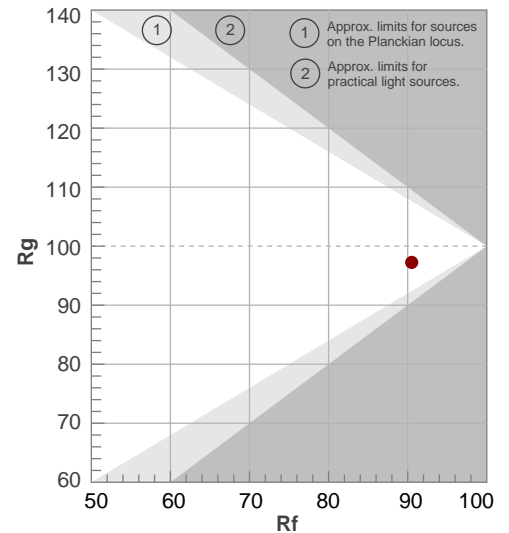
**Rf 90.5**

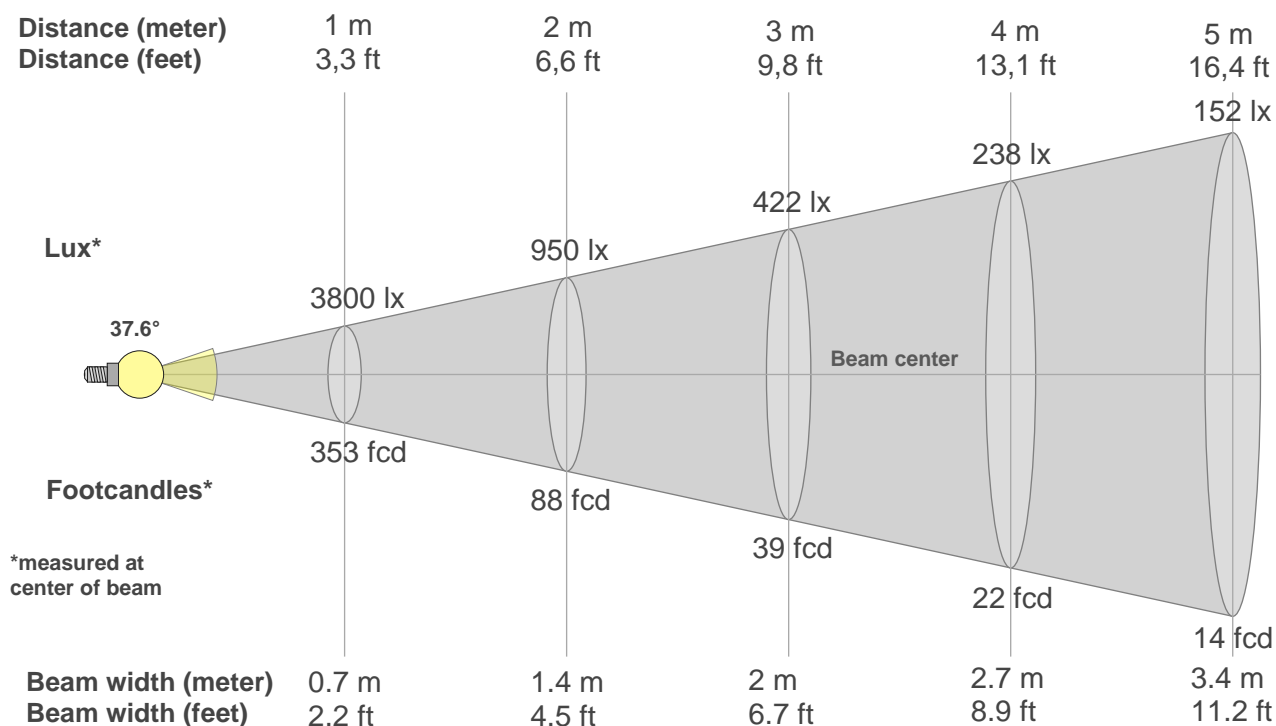
Fidelity index Rf

**Rg 97.2**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	2%
2	93	-3%	2%
3	93	-1%	3%
4	93	-3%	-1%
5	93	-6%	0%
6	96	-2%	0%
7	90	-6%	3%
8	94	-2%	3%
9	89	-1%	7%
10	86	1%	8%
11	88	4%	8%
12	90	5%	-1%
13	90	1%	-7%
14	87	2%	-10%
15	87	-3%	-5%
16	85	-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
3800lx	950lx	422lx	238lx	152lx	106lx	78lx	59lx	47lx	38lx	31lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx	10lx
353.1fcd	88.3fcd	39.2fcd	22.1fcd	14.1fcd	9.8fcd	7.2fcd	5.5fcd	4.4fcd	3.5fcd	2.9fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

#### 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°
3800	3758	3648	3492	3294	3072	2826	2559	2281	2006	1748	1509	1300	1129	992	861	705	543	384	244
100%	99%	96%	92%	87%	81%	74%	67%	60%	53%	46%	40%	34%	30%	26%	23%	19%	14%	10%	6%

#### 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°
3800	3761	3658	3505	3312	3087	2838	2565	2282	2006	1750	1514	1307	1140	1001	856	690	529	378	244
100%	99%	96%	92%	87%	81%	75%	68%	60%	53%	46%	40%	34%	30%	26%	23%	18%	14%	10%	6%

#### 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°
3800	3758	3648	3492	3294	3072	2826	2559	2281	2006	1748	1509	1300	1129	992	861	705	543	384	244
100%	99%	96%	92%	87%	81%	74%	67%	60%	53%	46%	40%	34%	30%	26%	23%	19%	14%	10%	6%

#### 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°
3800	3761	3658	3505	3312	3087	2838	2565	2282	2006	1750	1514	1307	1140	1001	856	690	529	378	244
100%	99%	96%	92%	87%	81%	75%	68%	60%	53%	46%	40%	34%	30%	26%	23%	18%	14%	10%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37.6°	72.1°	82.1°	99.2%	98.7%