

Light efficiency:

90 Lumen/Watt

Light quality:

CRI: 93.1

Color temperature:

2962 K

Output: 1893 lm

Peak: 4976 cd

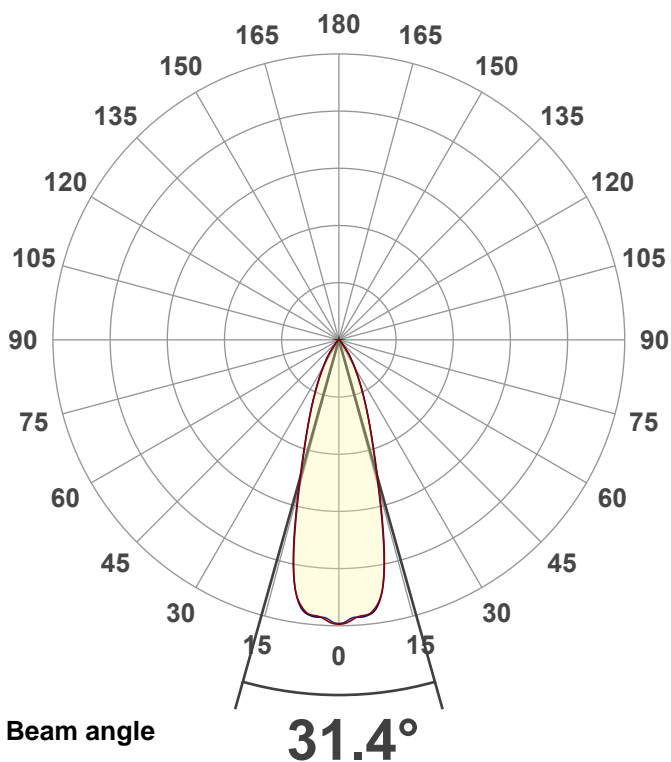
Power: 21.1 W

PF: 0.97



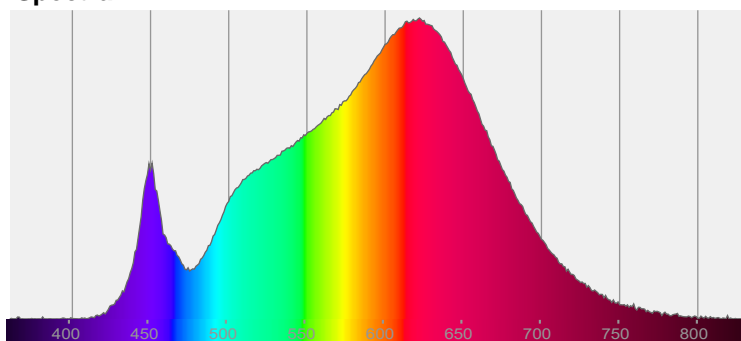
NUE4-RD-SW-20LM-30K-90-30D-NL-WH-WH

Date and time:  
3/7/2023 2:02:41 PM

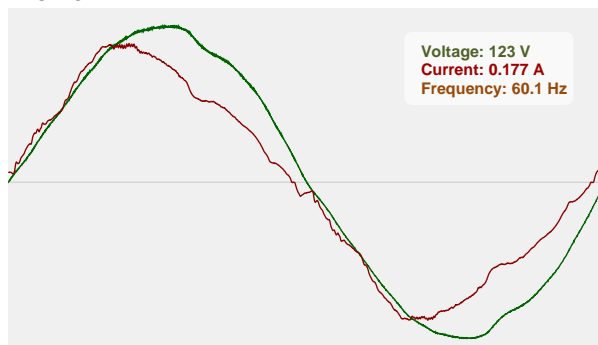


CIE 1931  
x: 0.442  
y: 0.409

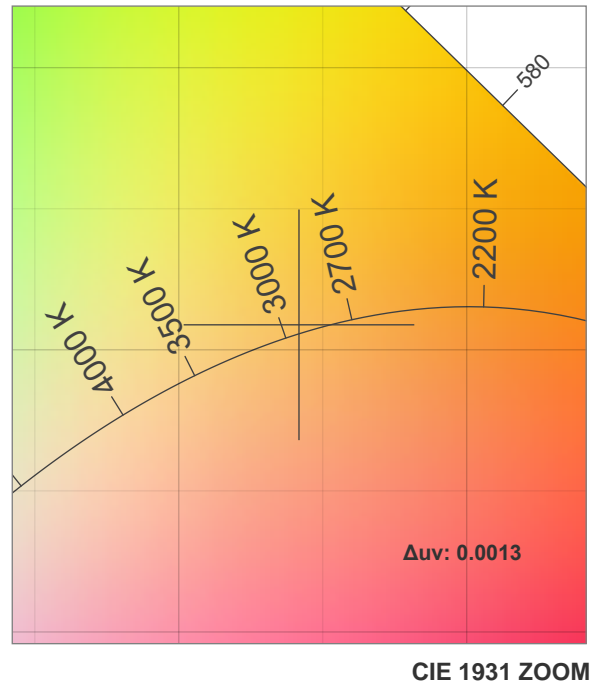
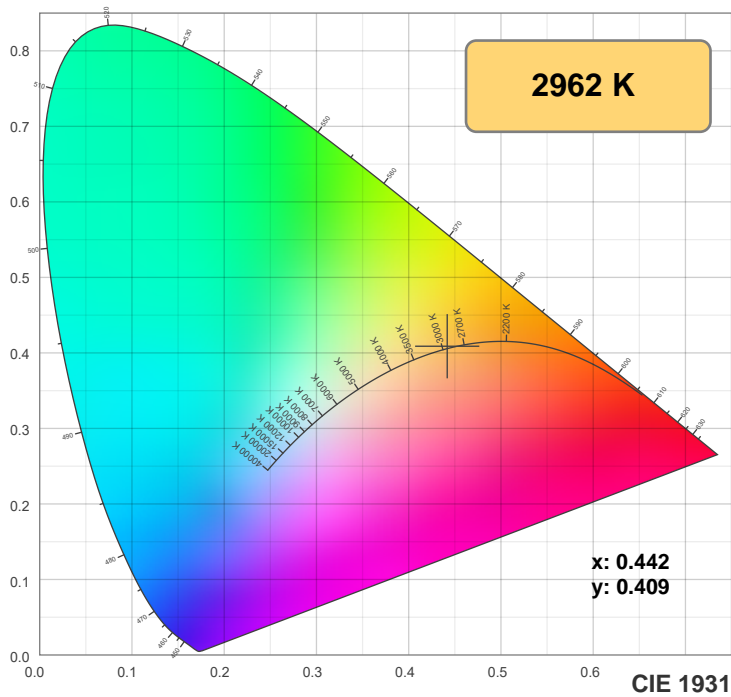
Spectra



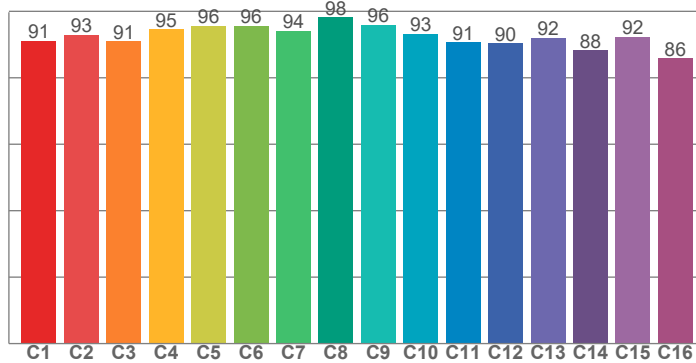
Power



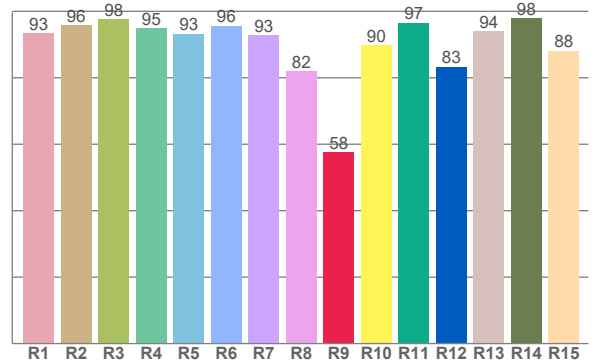
Voltage: 123 V  
Current: 0.177 A  
Frequency: 60.1 Hz



**TM30: 92.6**



**CRI: 93.1 (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
93.3	95.8	97.6	94.8	93.2	95.7	92.8	81.9	57.6	89.9	96.6	83.3	94.0	98.0	88.1

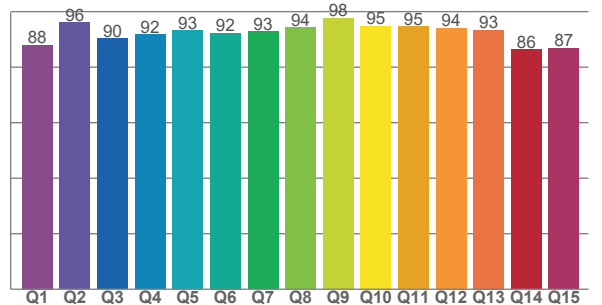
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.1	92.9	91.0	94.6	95.6	95.6	94.2	98.1	96.0	93.2	90.7	90.4	92.1	88.2	92.4	85.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.9	96.0	90.3	91.7	93.2	92.3	92.8	94.3	97.6	94.8	94.7	94.1	93.4	86.3	86.8

**CQS: 91.6**



## 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
2962 K	93.1	57.6	92.6	99.6	91.6	0.442	0.409	0.252	0.349	0.0013

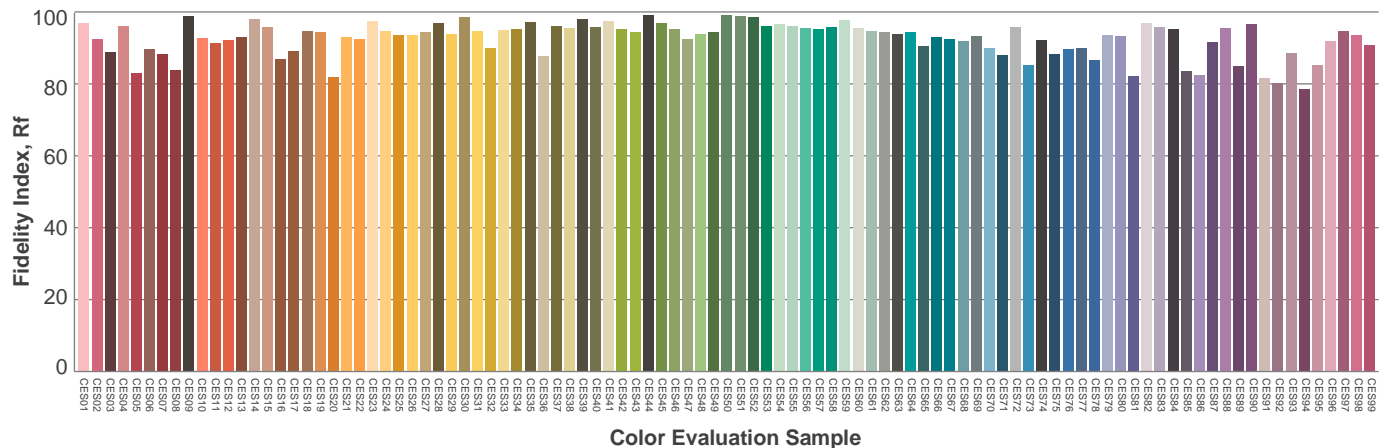
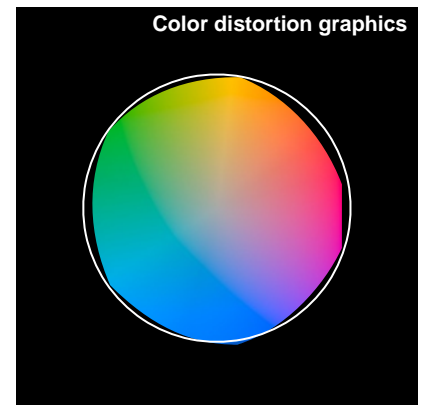
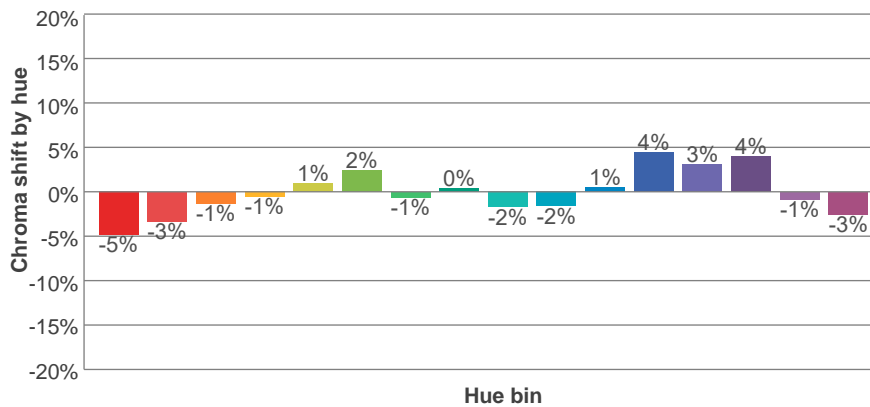
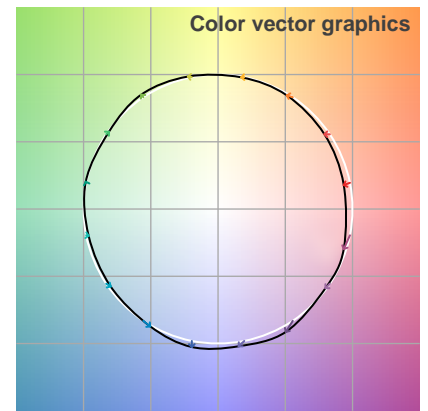
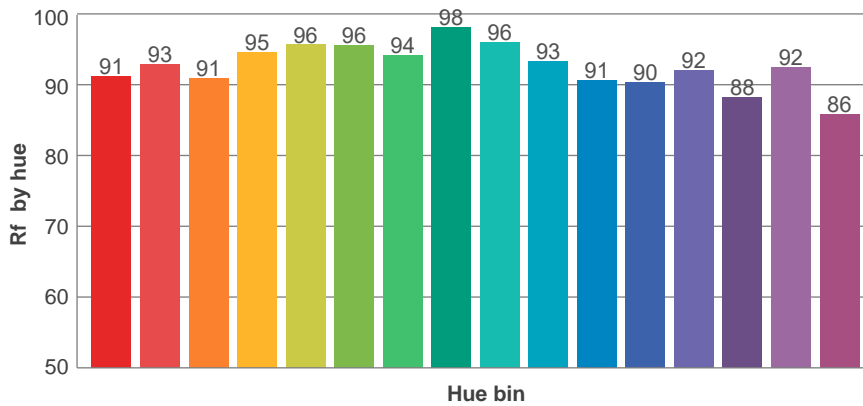
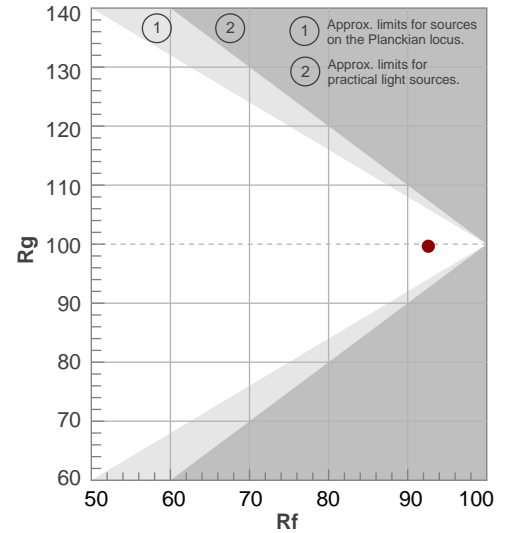
**Rf 92.6**

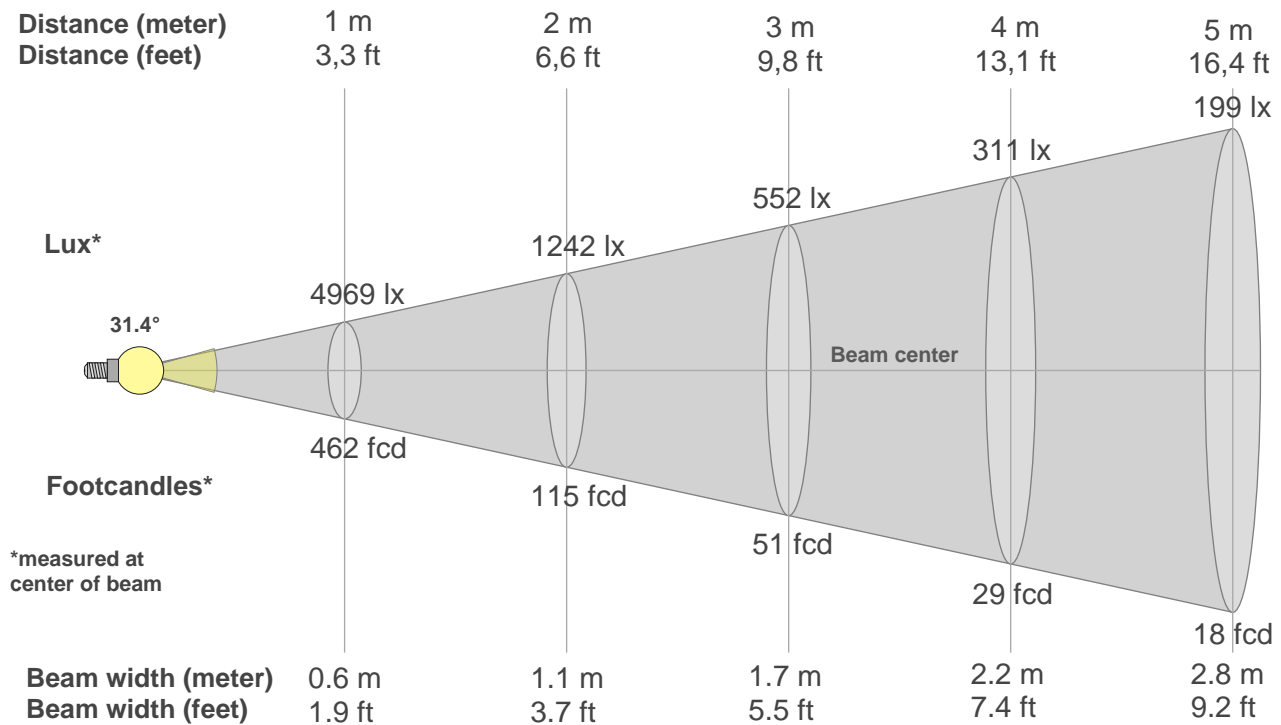
Fidelity index Rf

**Rg 99.6**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	-1%
2	93	-3%	2%
3	91	-1%	4%
4	95	-1%	2%
5	96	1%	3%
6	96	2%	0%
7	94	-1%	-3%
8	98	0%	-1%
9	96	-2%	1%
10	93	-2%	4%
11	91	1%	7%
12	90	4%	1%
13	92	3%	-5%
14	88	4%	-9%
15	92	-1%	-5%
16	86	-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
4969lx	1242lx	552lx	311lx	199lx	138lx	101lx	78lx	61lx	50lx	41lx	35lx	29lx	25lx	22lx	19lx	17lx	15lx	14lx	12lx
461.6fcd	115.4fcd	51.3fcd	28.9fcd	18.5fcd	12.8fcd	9.4fcd	7.2fcd	5.7fcd	4.6fcd	3.8fcd	3.2fcd	2.7fcd	2.4fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	1.2fcd

#### 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°
4969	4929	4850	4822	4697	4396	3814	3078	2421	1933	1567	1274	1030	828	664	529	419	331	234	161
100%	99%	98%	97%	95%	88%	77%	62%	49%	39%	32%	26%	21%	17%	13%	11%	8%	7%	5%	3%

#### 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°
4969	4893	4858	4840	4730	4401	3784	3022	2373	1902	1555	1275	1043	847	683	545	432	338	235	163
100%	98%	98%	97%	95%	89%	76%	61%	48%	38%	31%	26%	21%	17%	14%	11%	9%	7%	5%	3%

#### 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°
4969	4929	4850	4822	4697	4396	3814	3078	2421	1933	1567	1274	1030	828	664	529	419	331	234	161
100%	99%	98%	97%	95%	88%	77%	62%	49%	39%	32%	26%	21%	17%	13%	11%	8%	7%	5%	3%

#### 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°
4969	4893	4858	4840	4730	4401	3784	3022	2373	1902	1555	1275	1043	847	683	545	432	338	235	163
100%	98%	98%	97%	95%	89%	76%	61%	48%	38%	31%	26%	21%	17%	14%	11%	9%	7%	5%	3%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
31.4°	61.3°	78.7°	99.1%	97.5%