

Light efficiency:

70 Lumen/Watt

Light quality:

CRI: 93.3

Color temperature:

3048 K

Output: 1094 lm

Peak: 2345 cd

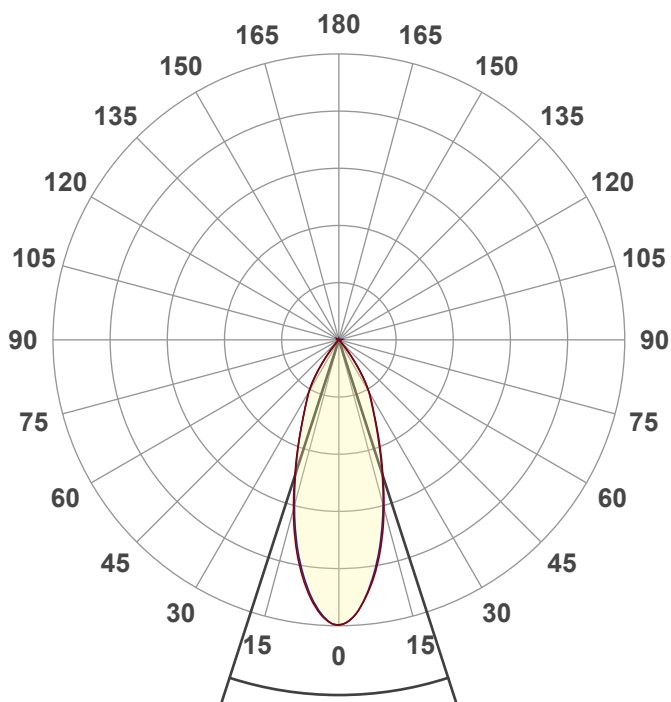
Power: 15.6 W

PF: 0.97



NU4-RD-TW-10LM-2765-95-35D-NL-WH-WH

Date and time:  
3/29/2023 11:40:31 AM



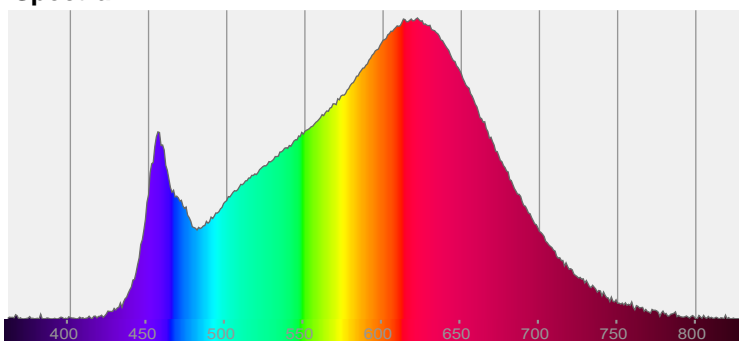
Beam angle

35.8°

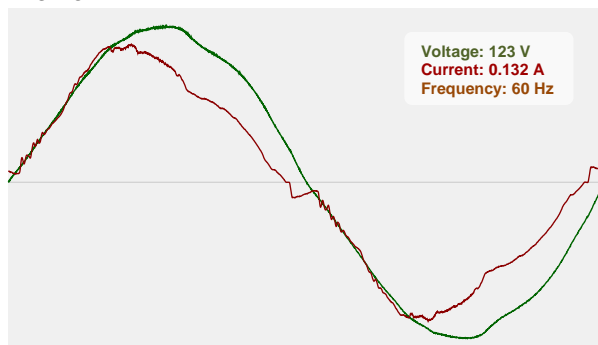


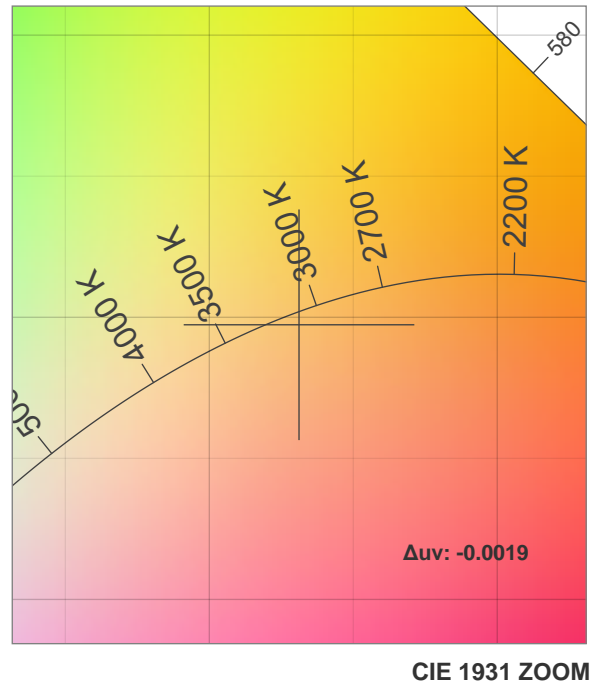
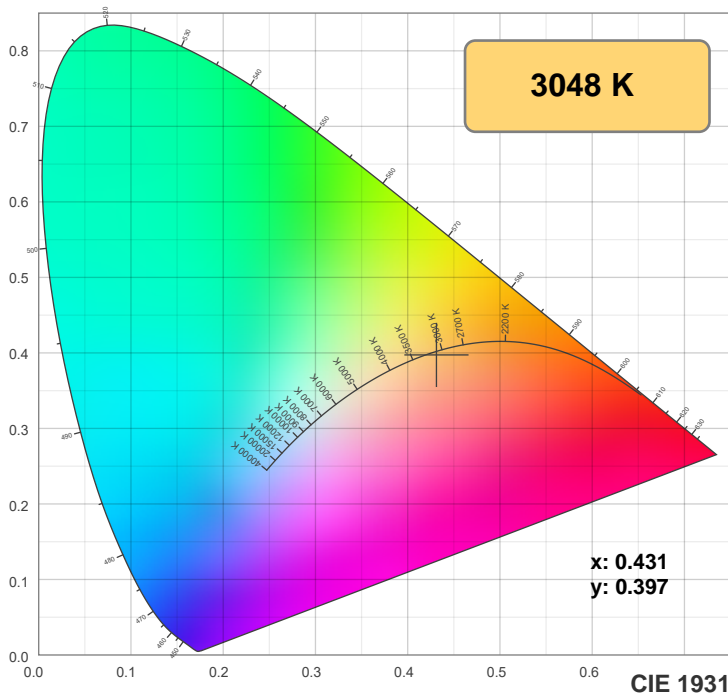
CIE 1931  
x: 0.431  
y: 0.397

Spectra

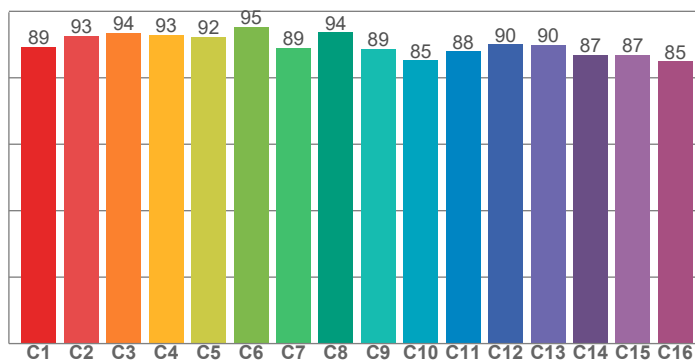


Power

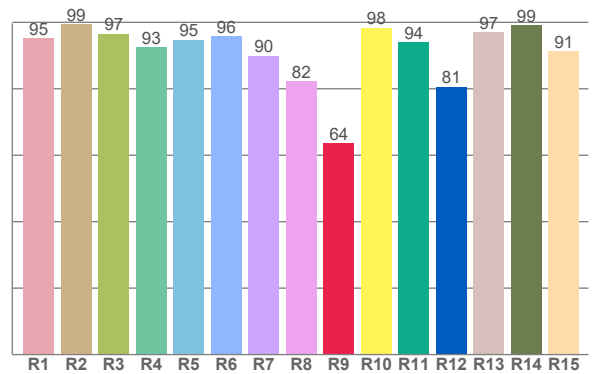




TM30: 90.2



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	94.8	95.8	90.0	82.2	63.6	98.4	94.0	80.6	97.1	99.1	91.3

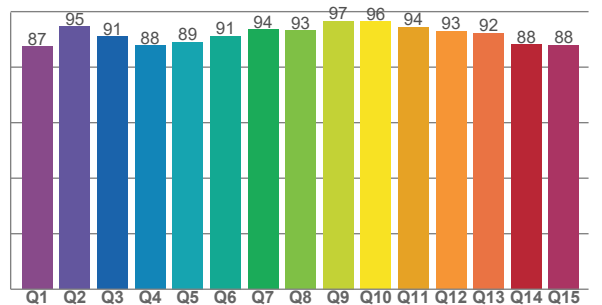
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.3	92.5	93.6	92.9	92.3	95.4	88.9	93.7	88.7	85.2	88.0	90.0	89.8	87.0	86.9	85.0

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	96.5	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	Δuv
3048 K	93.3	63.6	90.2	97.0	91.1	0.431	0.397	0.250	0.345	-0.0019

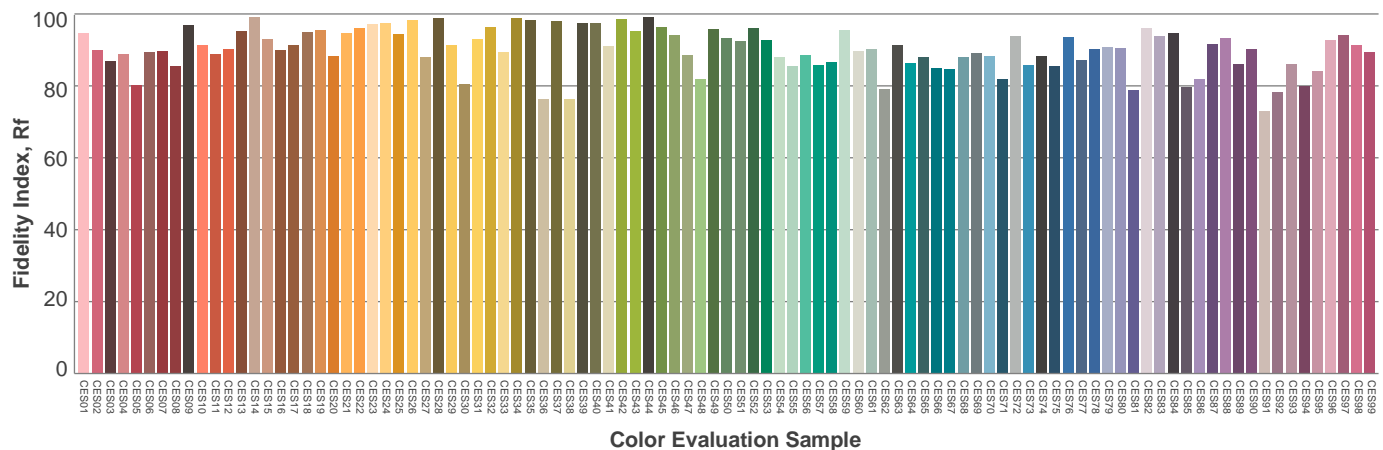
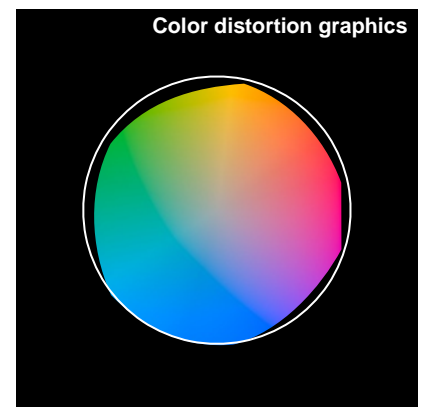
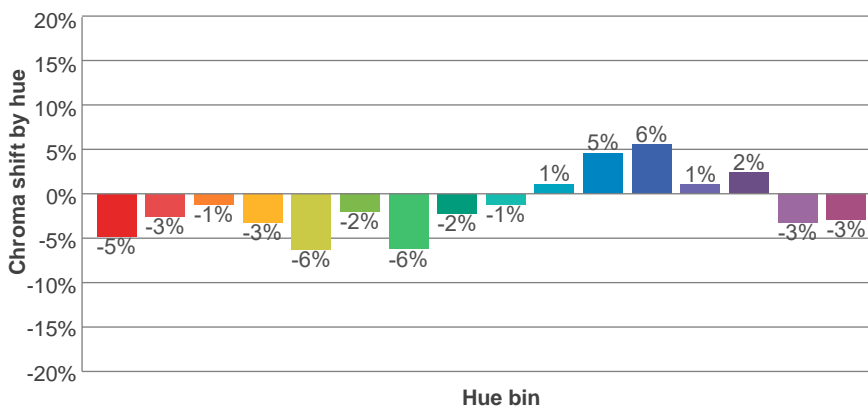
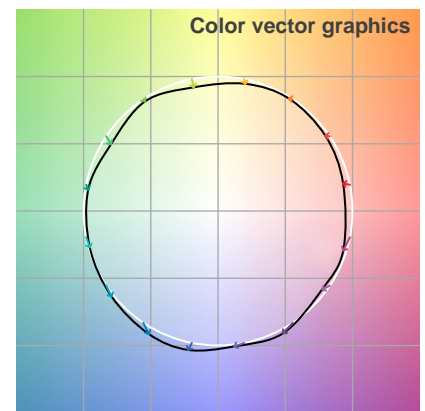
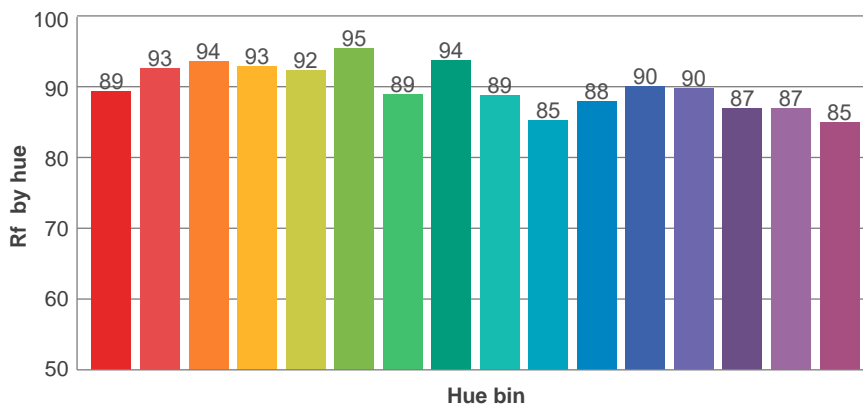
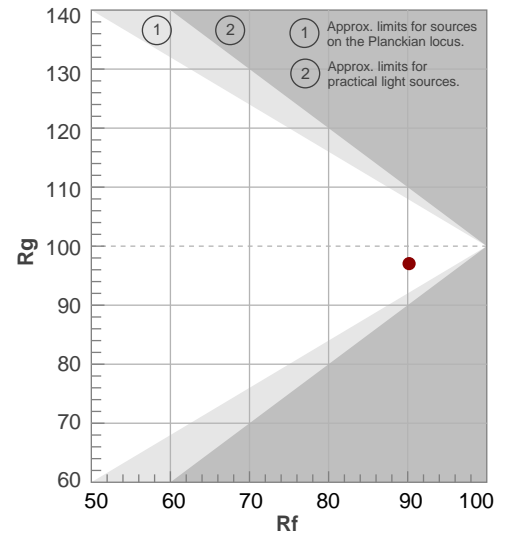
**Rf 90.2**

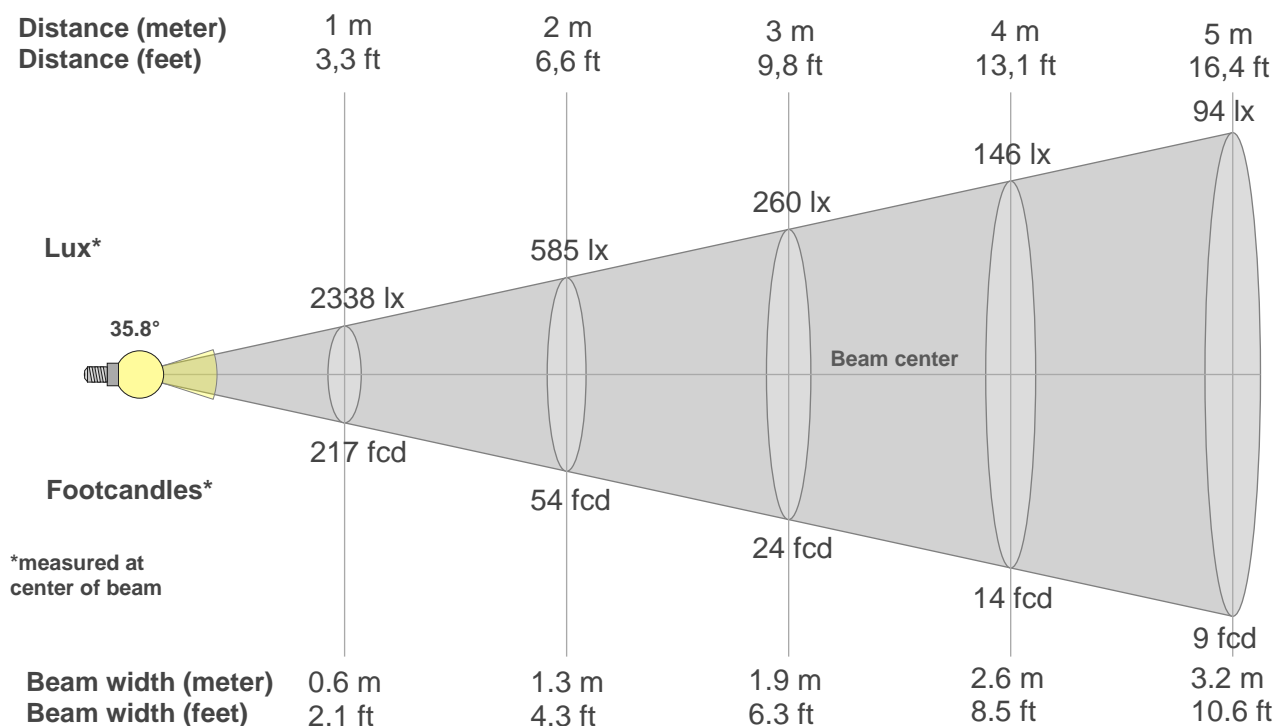
Fidelity index Rf

**Rg 97.0**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		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
2338lx	585lx	260lx	146lx	94lx	65lx	48lx	37lx	29lx	23lx	19lx	16lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx
217.2fcd	54.3fcd	24.1fcd	13.6fcd	8.7fcd	6fcd	4.4fcd	3.4fcd	2.7fcd	2.2fcd	1.8fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.8fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd

#### 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°
2338	2310	2238	2130	2001	1855	1695	1524	1348	1175	1021	881	757	653	573	495	403	306	215	131
100%	99%	96%	91%	86%	79%	72%	65%	58%	50%	44%	38%	32%	28%	24%	21%	17%	13%	9%	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°
2338	2311	2238	2122	1983	1830	1666	1494	1322	1156	999	861	742	641	561	491	409	314	214	124
100%	99%	96%	91%	85%	78%	71%	64%	57%	49%	43%	37%	32%	27%	24%	21%	17%	13%	9%	5%

#### 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°
2338	2320	2257	2153	2023	1876	1713	1537	1352	1175	1015	870	743	643	564	487	401	307	214	132
100%	99%	97%	92%	87%	80%	73%	66%	58%	50%	43%	37%	32%	27%	24%	21%	17%	13%	9%	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°
2338	2315	2243	2136	1999	1848	1682	1505	1326	1155	1003	866	744	642	560	490	409	317	218	126
100%	99%	96%	91%	86%	79%	72%	64%	57%	49%	43%	37%	32%	27%	24%	21%	18%	14%	9%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35.8°	71.1°	80.6°	99.4%	99.1%