

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 93.4

Color temperature:

3035 K

Output: 1870 lm

Peak: 1676 cd

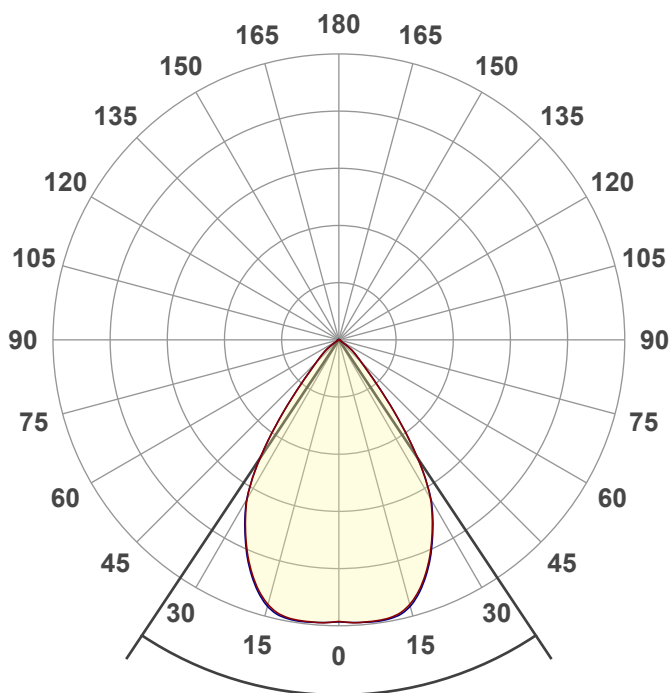
Power: 24.4 W

PF: 0.98



NU4-RD-TW-20LM-2765-95-65D-NL-WH-WH

Date and time:
3/24/2023 12:45:38 PM



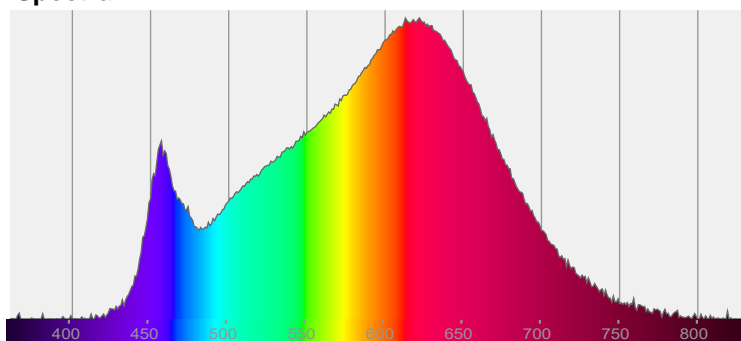
Beam angle

67.3°

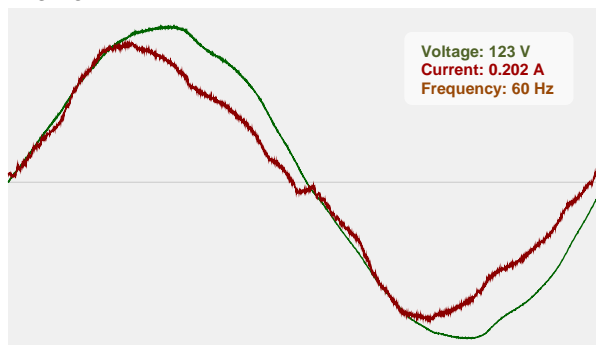


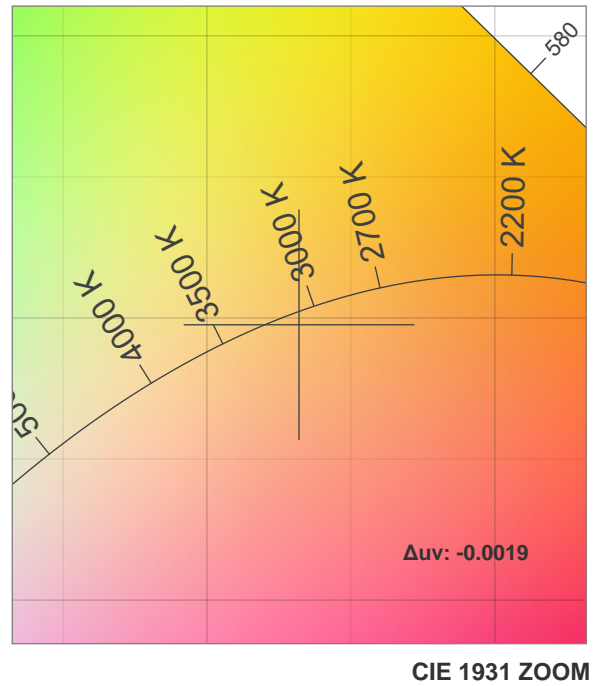
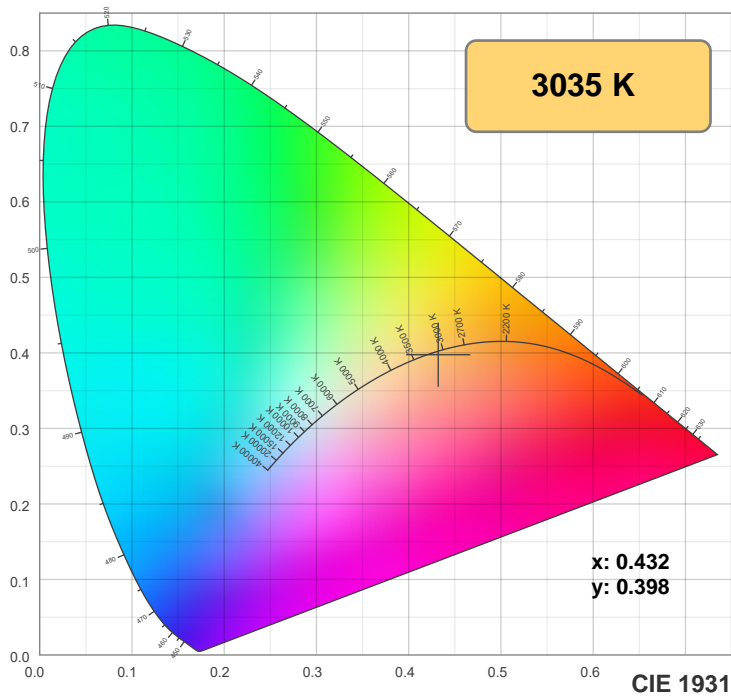
CIE 1931
x: 0.432
y: 0.398

Spectra

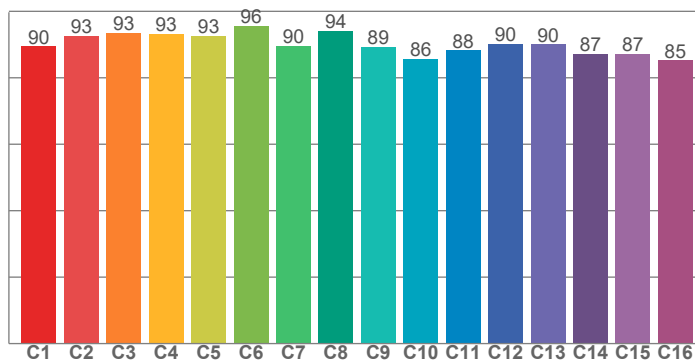


Power

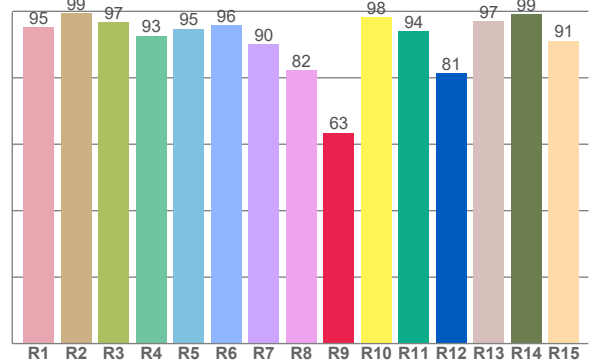




TM30: 90.5



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	96.7	92.7	94.8	95.9	90.1	82.2	63.4	98.2	94.1	81.4	97.0	99.2	91.2

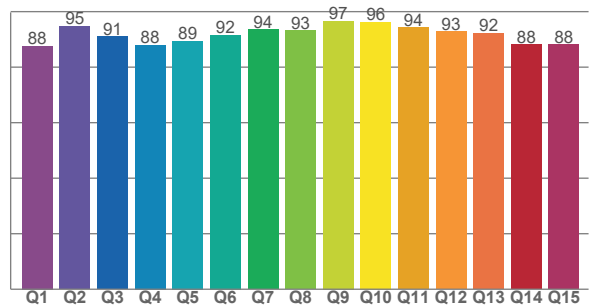
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.5	92.6	93.5	93.2	92.6	95.6	89.6	94.1	89.2	85.7	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
87.6	94.7	91.1	87.9	89.4	91.5	93.6	93.1	96.6	96.3	94.3	92.8	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	Δuv
3035 K	93.4	63.4	90.5	97.2	91.2	0.432	0.398	0.250	0.345	-0.0019

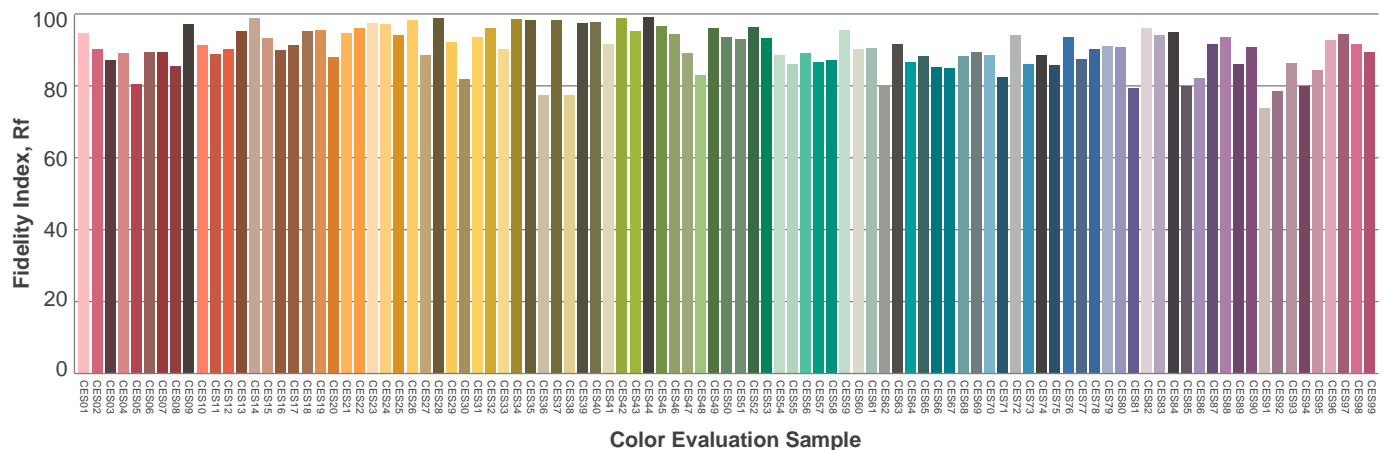
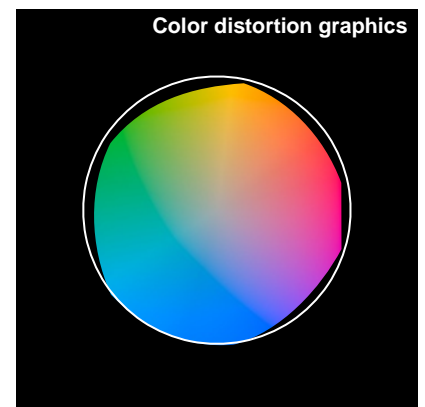
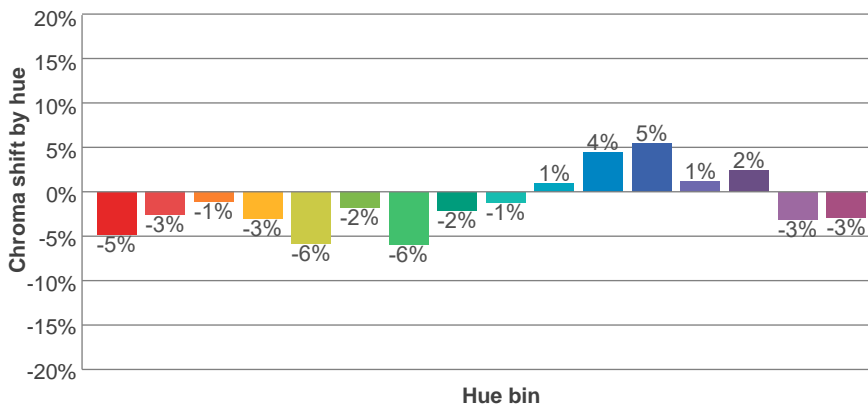
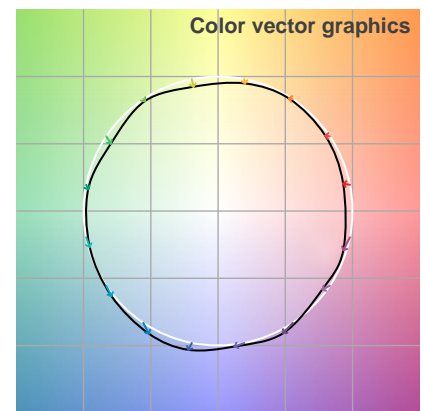
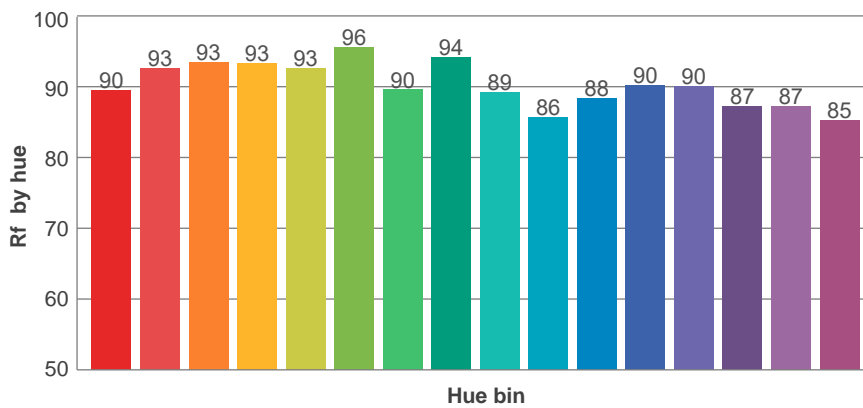
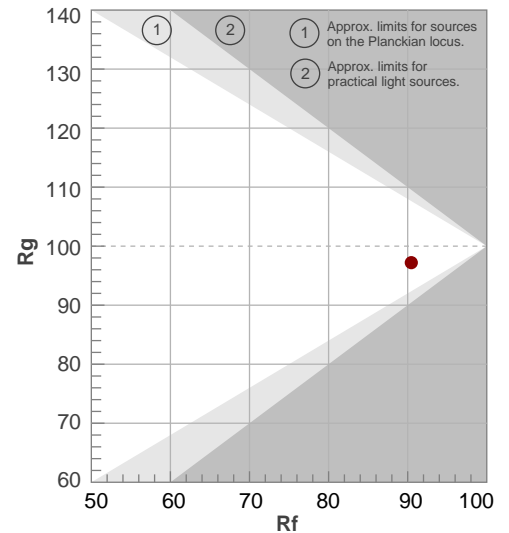
Rf 90.5

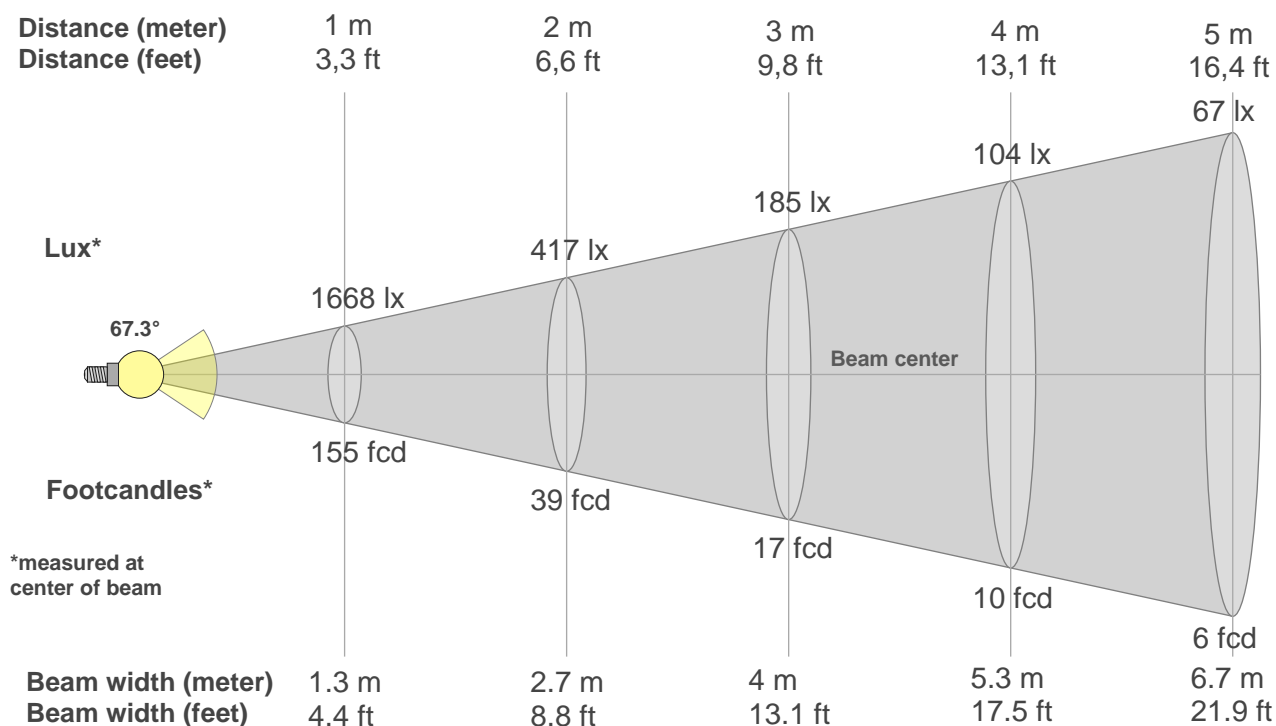
Fidelity index Rf

Rg 97.2

Gammut index Rg

Hue Bin	R _f	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%	9%
11	88	4%	8%
12	90	5%	-2%
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
1668lx	417lx	185lx	104lx	67lx	46lx	34lx	26lx	21lx	17lx	14lx	12lx	10lx	9lx	7lx	7lx	6lx	5lx	5lx	4lx
155fcd	38.7fcd	17.2fcd	9.7fcd	6.2fcd	4.3fcd	3.2fcd	2.4fcd	1.9fcd	1.5fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd

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°
1668	1668	1671	1671	1671	1667	1655	1630	1593	1544	1482	1413	1336	1255	1171	1081	959	814	659	508
100%	100%	100%	100%	100%	100%	99%	98%	95%	93%	89%	85%	80%	75%	70%	65%	57%	49%	39%	30%

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°
1668	1668	1671	1674	1676	1673	1663	1641	1604	1554	1492	1422	1345	1263	1178	1085	956	808	654	505
100%	100%	100%	100%	100%	100%	100%	98%	96%	93%	89%	85%	81%	76%	71%	65%	57%	48%	39%	30%

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°
1668	1668	1671	1671	1671	1667	1655	1630	1593	1544	1482	1413	1336	1255	1171	1081	959	814	659	508
100%	100%	100%	100%	100%	100%	99%	98%	95%	93%	89%	85%	80%	75%	70%	65%	57%	49%	39%	30%

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°
1668	1668	1671	1674	1676	1673	1663	1641	1604	1554	1492	1422	1345	1263	1178	1085	956	808	654	505
100%	100%	100%	100%	100%	100%	100%	98%	96%	93%	89%	85%	81%	76%	71%	65%	57%	48%	39%	30%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
67.3°	92.5°	109.6°	99.1%	93.7%