

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 93.3

Color temperature:

3022 K

Output: 1929 lm

Peak: 3036 cd

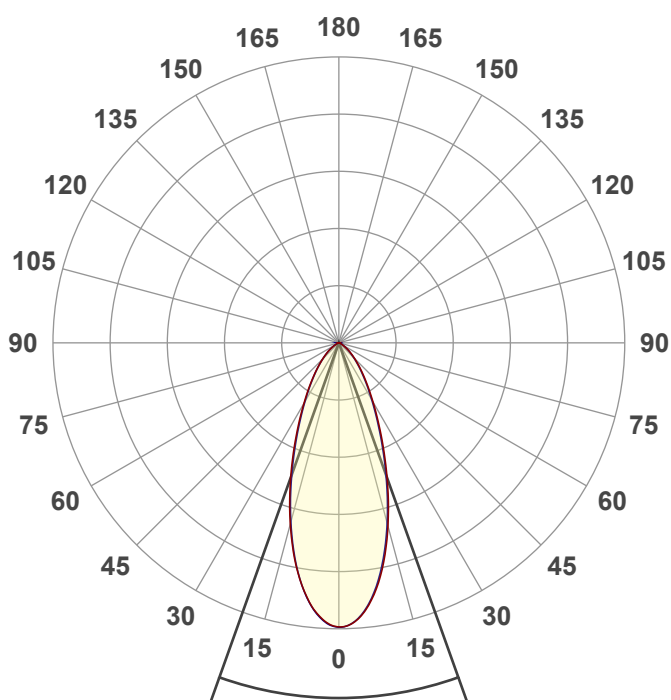
Power: 24.9 W

PF: 0.98



NU4-RD-TW-20LM-2765-95-20D-DL-WH-WH

Date and time:  
3/27/2023 9:25:06 AM



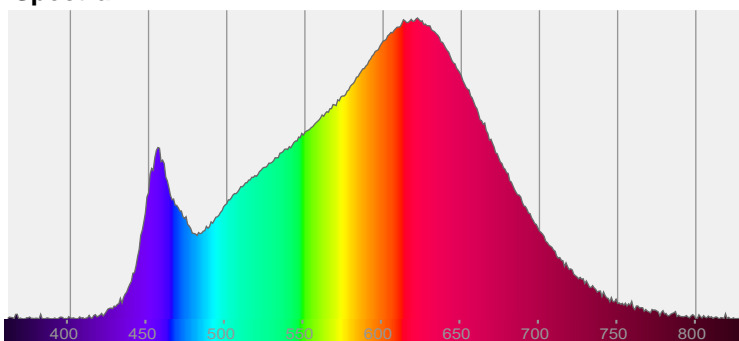
Beam angle

39.3°

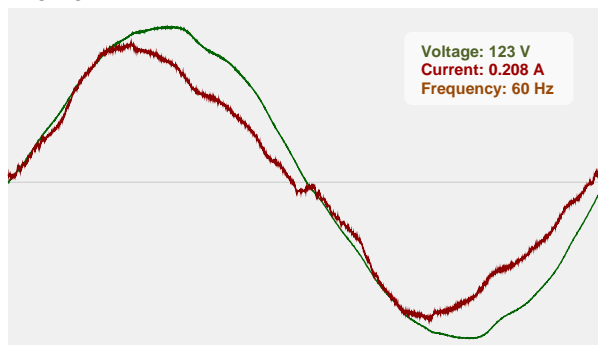


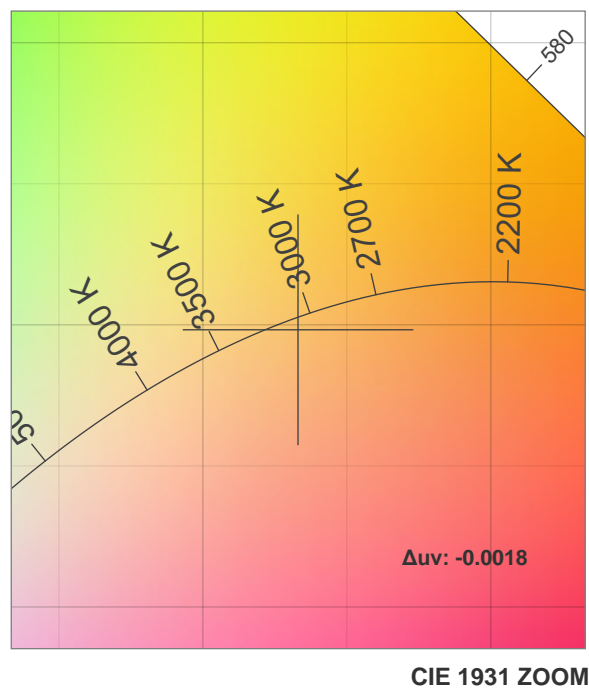
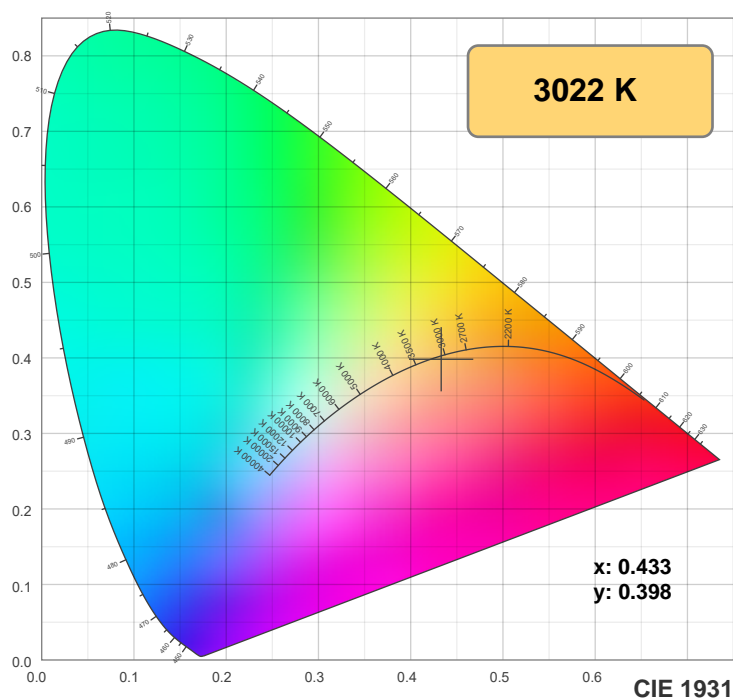
CIE 1931  
x: 0.433  
y: 0.398

Spectra

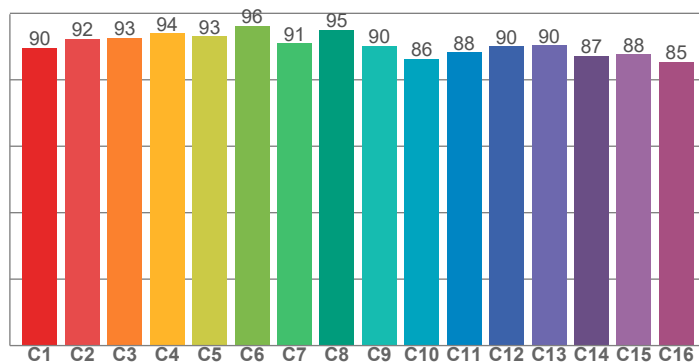


Power

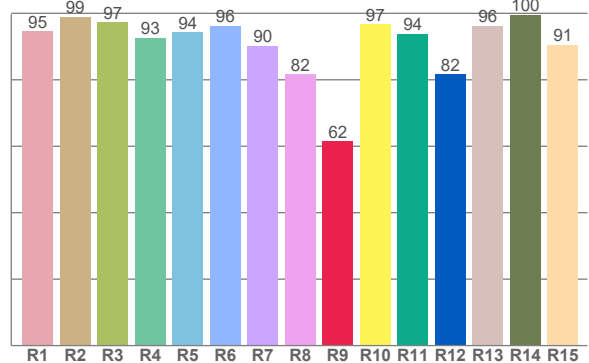




TM30: 90.8



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
94.6	99.0	97.3	92.6	94.3	96.2	90.3	81.7	61.6	96.6	93.8	81.7	96.3	99.6	90.6

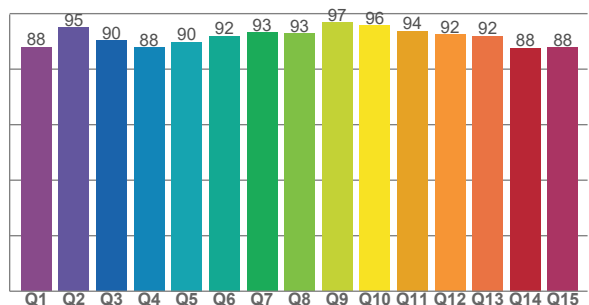
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.7	92.3	92.5	93.9	93.1	96.2	90.9	95.0	90.2	86.3	88.3	90.1	90.4	87.2	87.6	85.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.9	94.9	90.3	87.7	89.8	92.0	93.1	92.8	96.8	95.7	93.7	92.4	91.9	87.6	87.7

CQS: 91.0



## 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	$\Delta uv$
3022 K	93.3	61.6	90.8	97.6	91.0	0.433	0.398	0.251	0.346	-0.0018

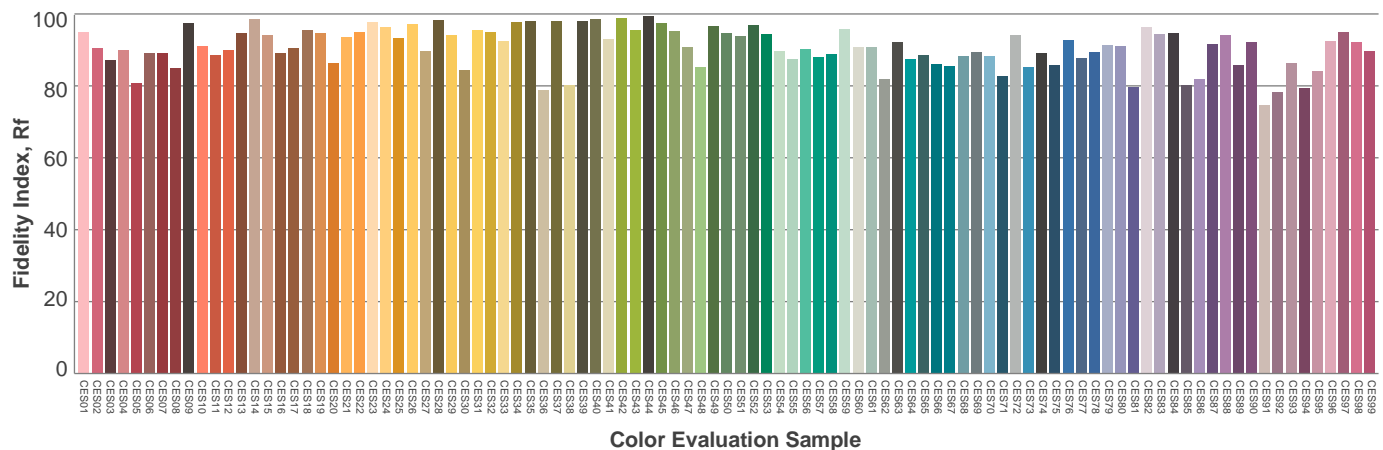
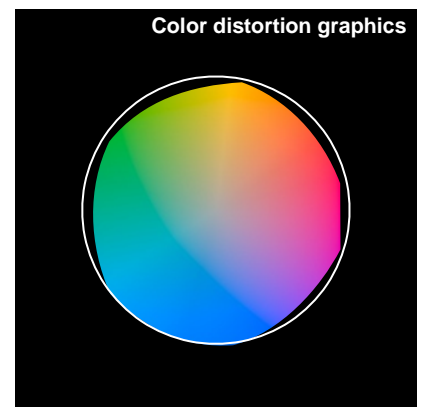
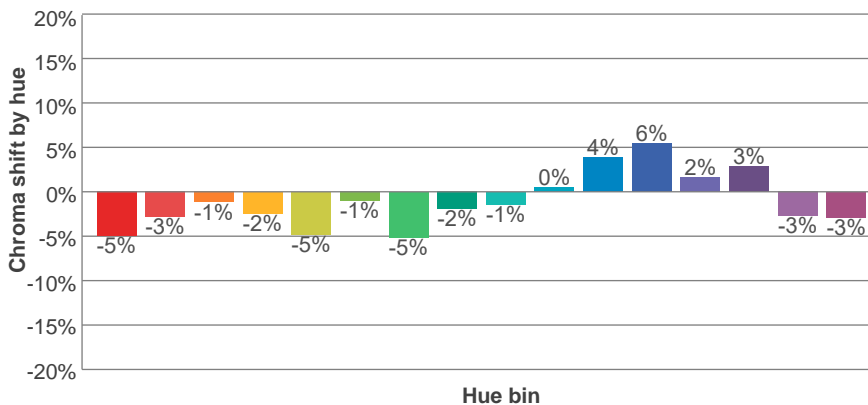
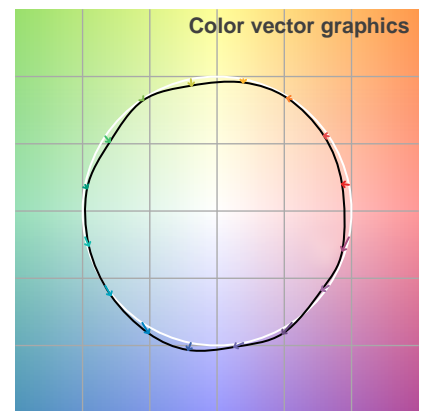
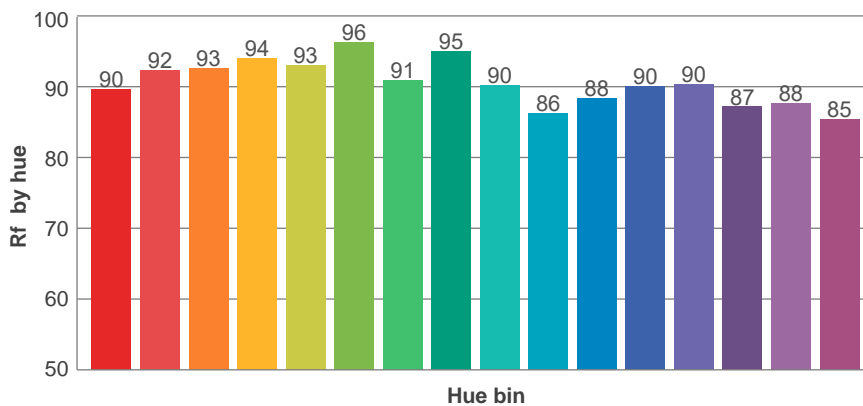
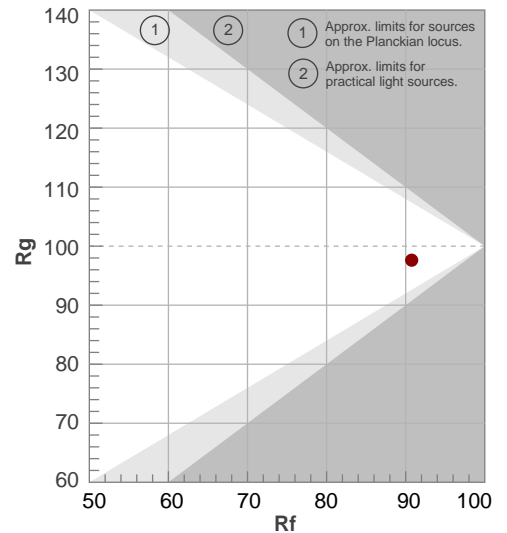
**Rf 90.8**

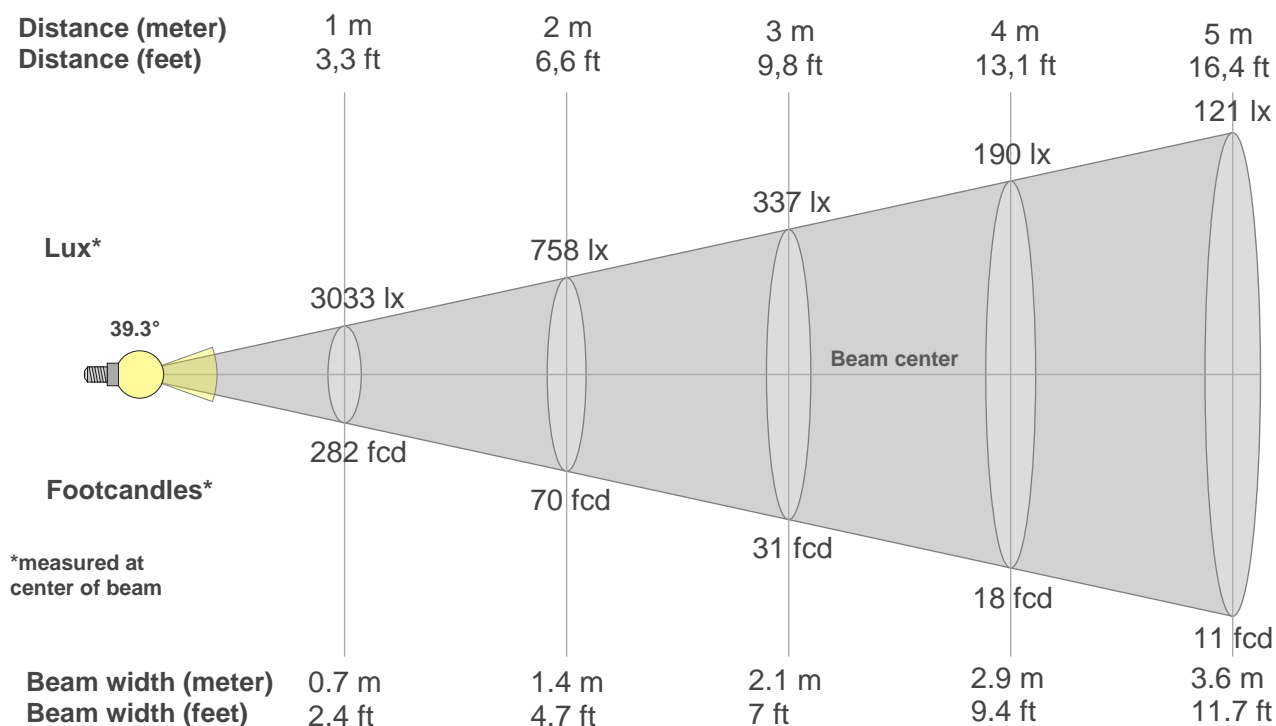
Fidelity index Rf

**Rg 97.6**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	92	-3%	2%
3	93	-1%	3%
4	94	-2%	0%
5	93	-5%	0%
6	96	-1%	0%
7	91	-5%	2%
8	95	-2%	2%
9	90	-1%	7%
10	86	0%	8%
11	88	4%	8%
12	90	6%	-1%
13	90	2%	-7%
14	87	3%	-10%
15	88	-3%	-6%
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
3033lx	758lx	337lx	190lx	121lx	84lx	62lx	47lx	37lx	30lx	25lx	21lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	8lx
281.8fcd	70.5fcd	31.3fcd	17.6fcd	11.3fcd	7.8fcd	5.8fcd	4.4fcd	3.5fcd	2.8fcd	2.3fcd	2fcd	1.7fcd	1.4fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

#### 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°
3033	3015	2954	2850	2708	2539	2343	2133	1915	1703	1496	1305	1133	977	846	730	631	547	473	409
100%	99%	97%	94%	89%	84%	77%	70%	63%	56%	49%	43%	37%	32%	28%	24%	21%	18%	16%	13%

#### 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°
3033	3015	2948	2838	2693	2513	2313	2100	1883	1667	1460	1270	1097	946	815	702	607	524	450	388
100%	99%	97%	94%	89%	83%	76%	69%	62%	55%	48%	42%	36%	31%	27%	23%	20%	17%	15%	13%

#### 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°
3033	3002	2927	2819	2671	2502	2312	2106	1901	1694	1497	1312	1143	992	861	745	648	562	485	420
100%	99%	97%	93%	88%	82%	76%	69%	63%	56%	49%	43%	38%	33%	28%	25%	21%	19%	16%	14%

#### 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°
3033	3010	2935	2822	2674	2495	2297	2086	1873	1663	1462	1276	1110	963	834	724	628	545	473	409
100%	99%	97%	93%	88%	82%	76%	69%	62%	55%	48%	42%	37%	32%	27%	24%	21%	18%	16%	13%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.3°	83.9°	113.2°	98.1%	89.6%