

Light efficiency:

45 Lumen/Watt

Light quality:

CRI: 95.3

Color temperature:

3108 K

Output: 1090 lm

Peak: 3757 cd

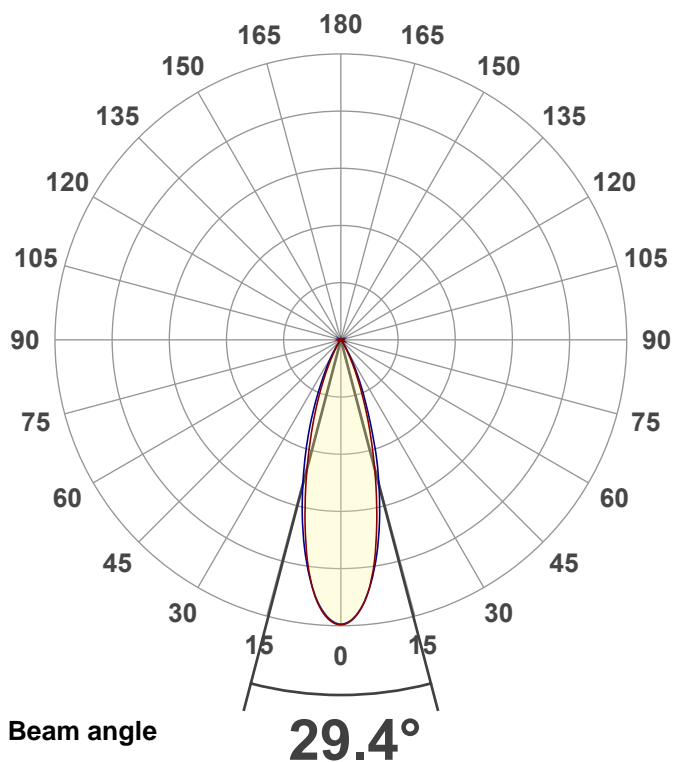
Power: 24.4 W

PF: 0.98



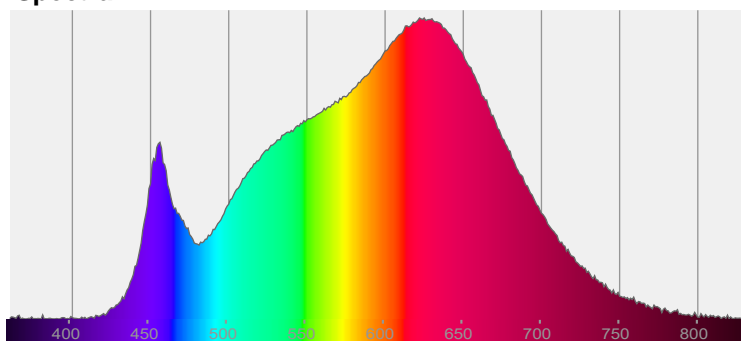
NU4-RAPH-WD-20LM-3018-97-25D-HET-WH

Date and time:
12/21/2021 3:39:03 PM

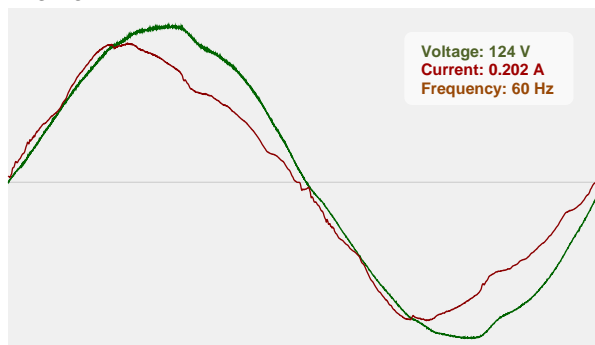


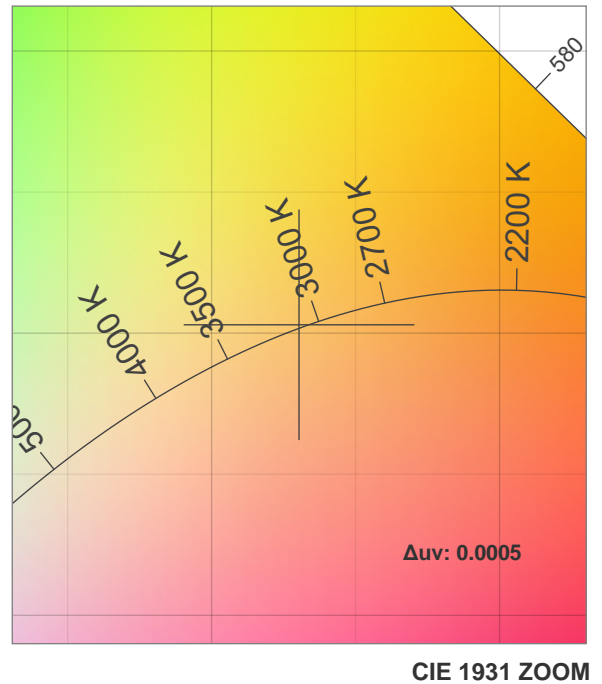
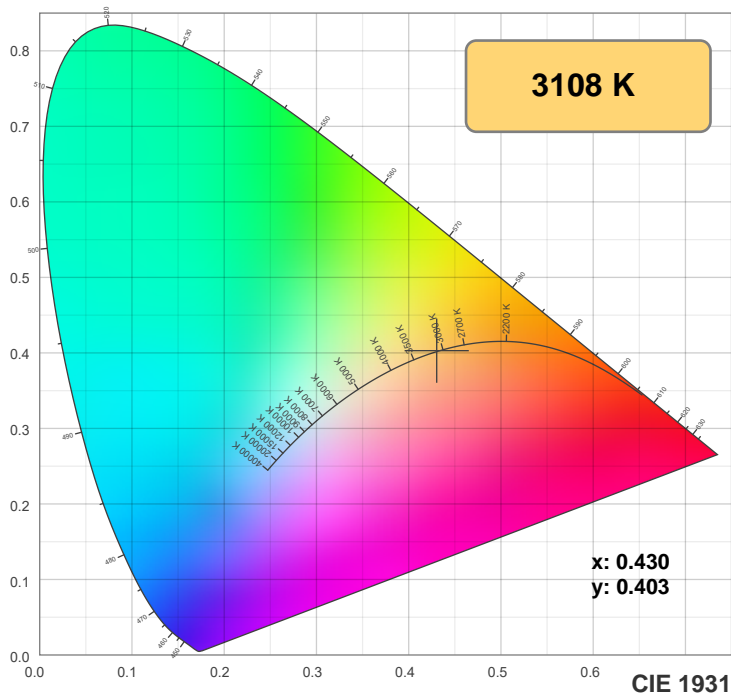
CIE 1931
x: 0.430
y: 0.403

Spectra

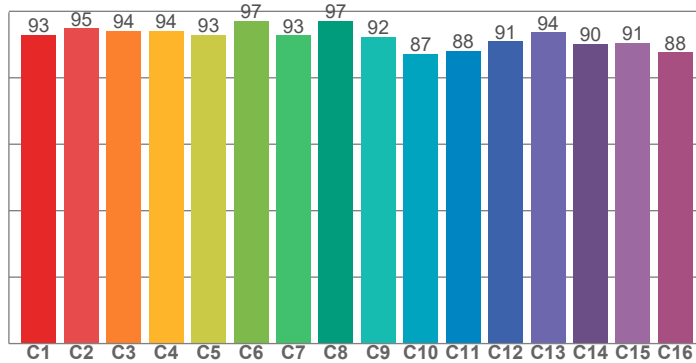


Power

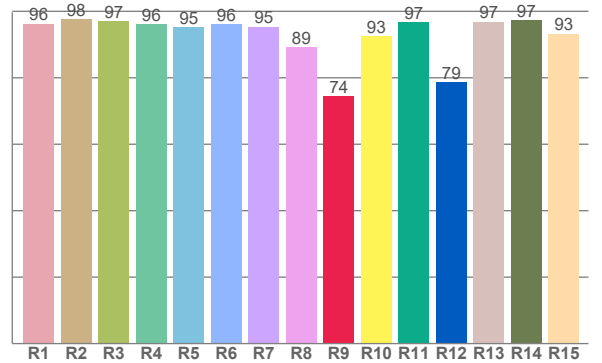




TM30: 92.3



CRI: 95.3 (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
96.3	97.6	96.9	96.0	95.2	96.2	95.3	89.1	74.4	92.5	96.7	78.6	96.8	97.4	93.3

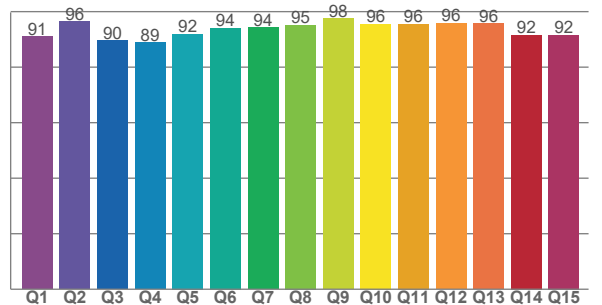
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.8	94.9	94.1	94.2	92.8	97.1	92.8	97.2	92.3	87.2	88.1	91.0	93.7	90.2	90.6	87.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.1	96.4	89.6	88.8	92.0	94.1	94.2	95.1	97.5	95.6	95.5	95.8	95.8	91.6	91.6

CQS: 93.0



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	Δuv
3108 K	95.3	74.4	92.3	99.1	93.0	0.430	0.403	0.247	0.347	0.0005

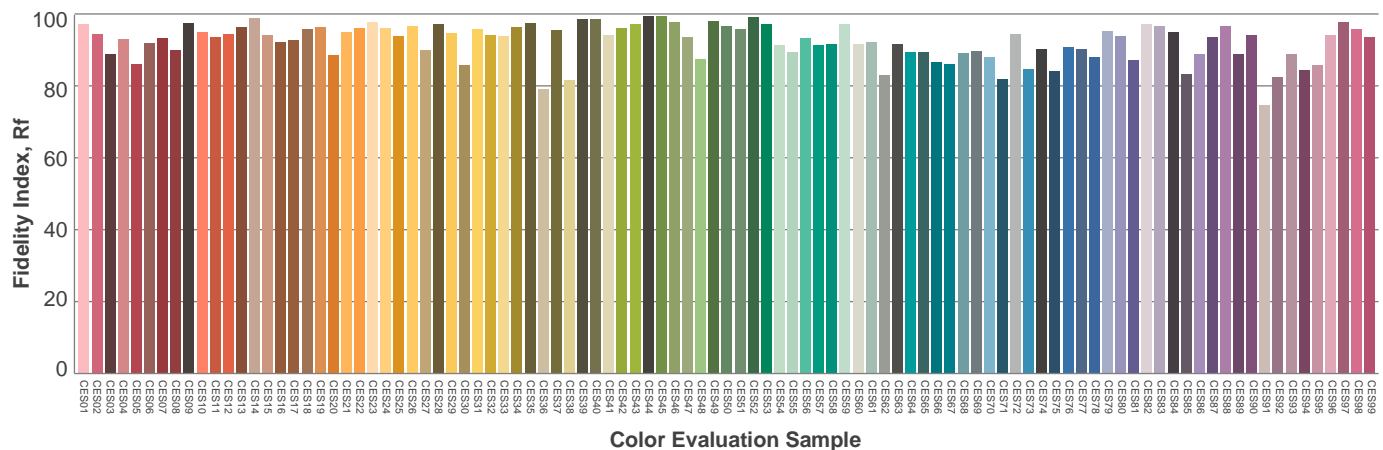
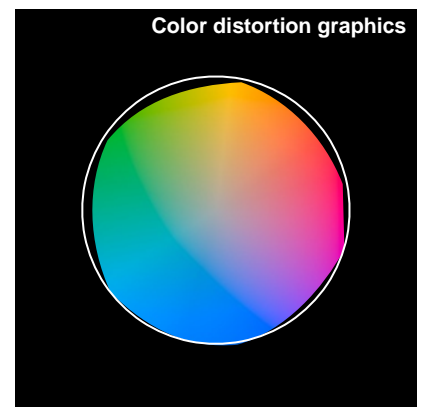
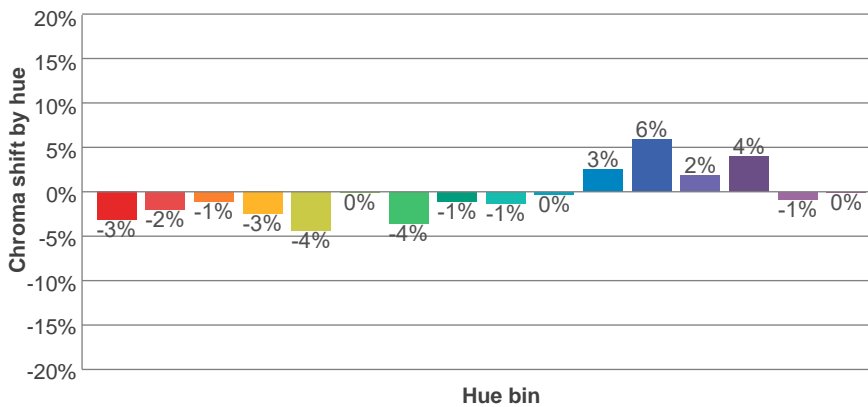
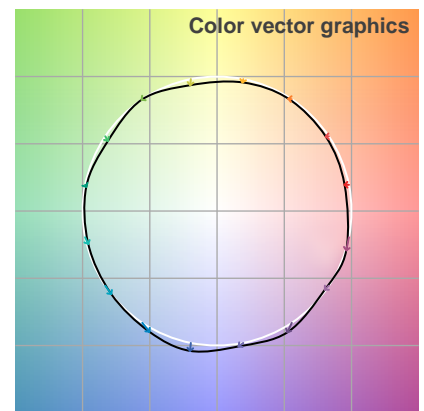
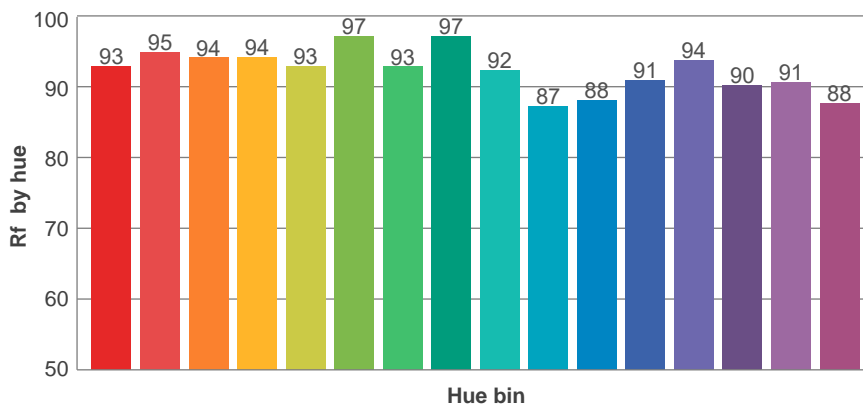
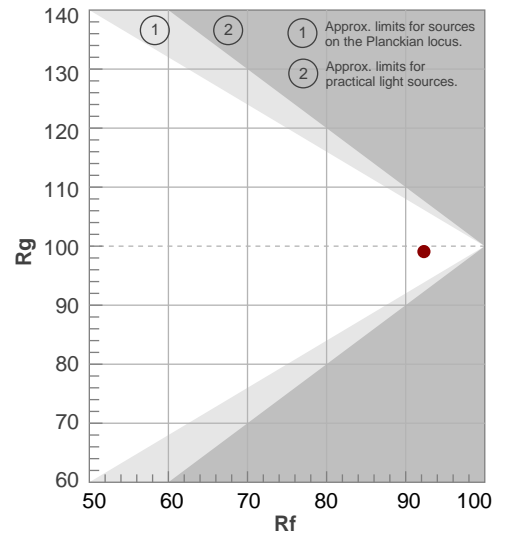
Rf 92.3

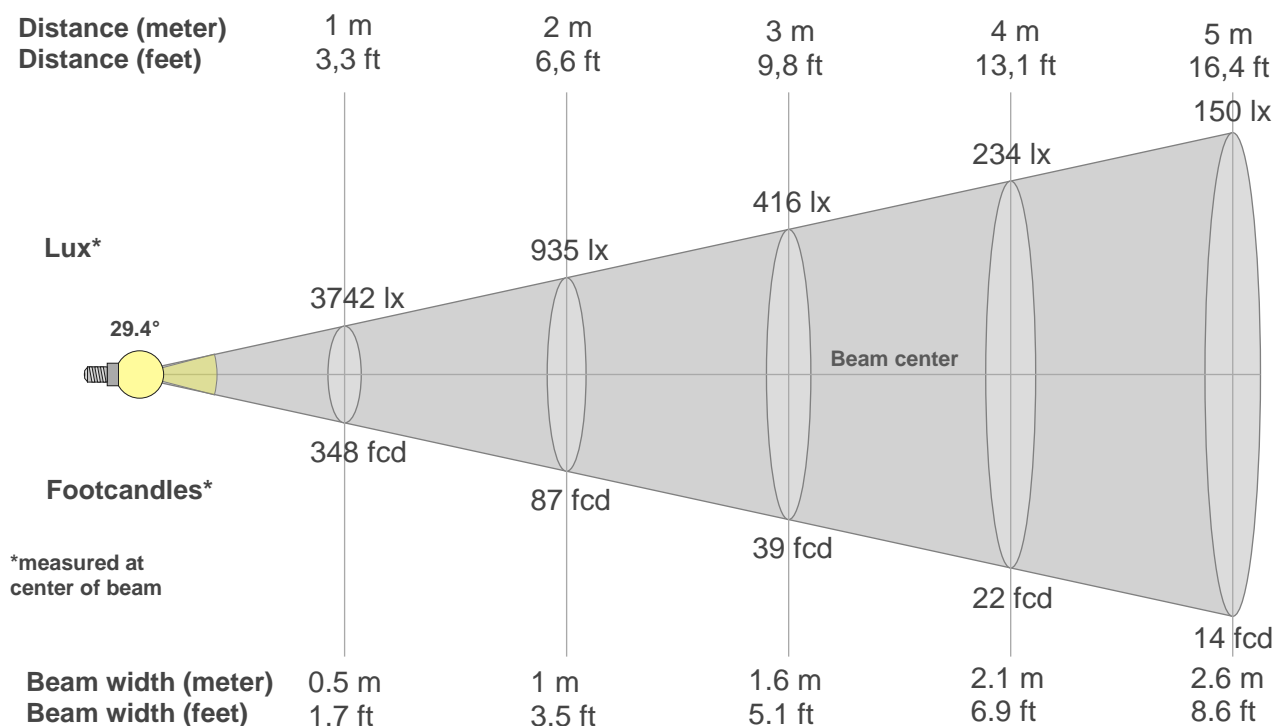
Fidelity index Rf

Rg 99.1

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	1%
2	95	-2%	1%
3	94	-1%	2%
4	94	-3%	0%
5	93	-4%	1%
6	97	0%	1%
7	93	-4%	2%
8	97	-1%	1%
9	92	-1%	5%
10	87	0%	8%
11	88	3%	8%
12	91	6%	1%
13	94	2%	-4%
14	90	4%	-7%
15	91	-1%	-4%
16	88	0%	-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
3742lx	935lx	416lx	234lx	150lx	104lx	76lx	58lx	46lx	37lx	31lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	10lx	9lx
347.6fcd	86.9fcd	38.6fcd	21.7fcd	13.9fcd	9.7fcd	7.1fcd	5.4fcd	4.3fcd	3.5fcd	2.9fcd	2.4fcd	2.1fcd	1.8fcd	1.5fcd	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°
3742	3699	3574	3367	3054	2678	2281	1892	1527	1211	934	698	502	343	219	139	86	51	29	16
100%	99%	96%	90%	82%	72%	61%	51%	41%	32%	25%	19%	13%	9%	6%	4%	2%	1%	1%	0%

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°
3742	3699	3562	3354	3091	2785	2450	2102	1763	1421	1103	839	632	461	323	216	138	85	53	34
100%	99%	95%	90%	83%	74%	65%	56%	47%	38%	29%	22%	17%	12%	9%	6%	4%	2%	1%	1%

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°
3742	3700	3575	3368	3048	2670	2275	1891	1536	1223	954	719	520	361	239	157	102	64	40	26
100%	99%	96%	90%	81%	71%	61%	51%	41%	33%	25%	19%	14%	10%	6%	4%	3%	2%	1%	1%

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°
3742	3686	3552	3347	3080	2772	2437	2098	1769	1459	1172	908	682	502	362	252	168	109	68	43
100%	99%	95%	89%	82%	74%	65%	56%	47%	39%	31%	24%	18%	13%	10%	7%	4%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29.4°	53.2°	66.1°	99.7%	99.5%