

Light efficiency:

38 Lumen/Watt

Light quality:

CRI: 95.4

Color temperature:

3101 K

Output: 938 lm

Peak: 2025 cd

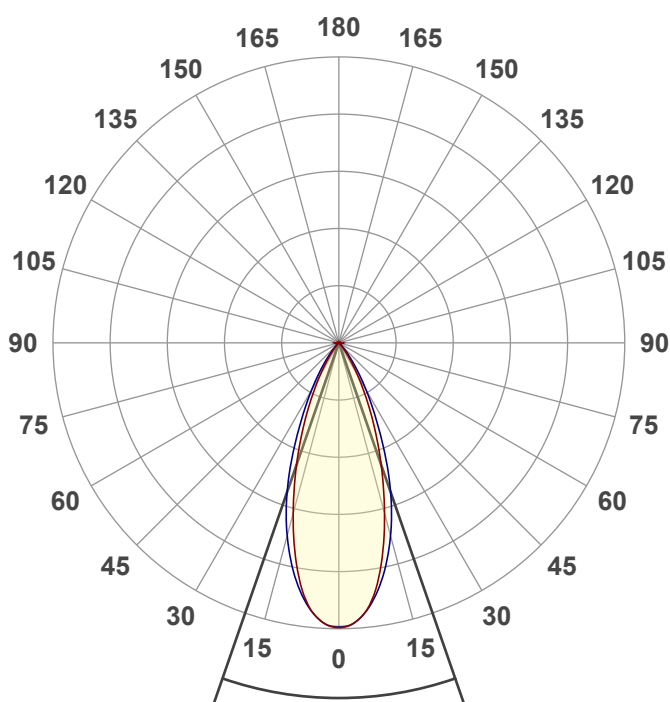
Power: 24.5 W

PF: 0.98



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

Date and time:
12/21/2021 3:16:36 PM



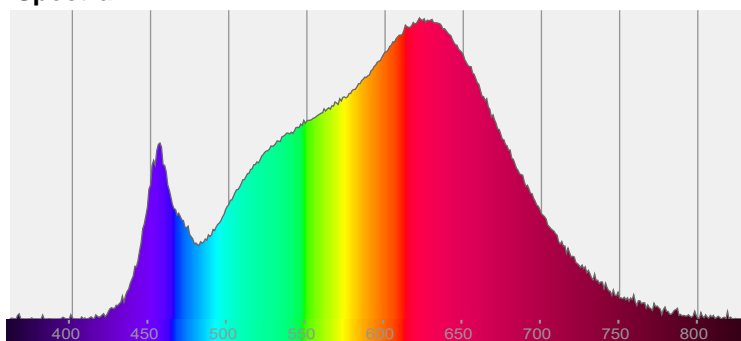
Beam angle

38.2°

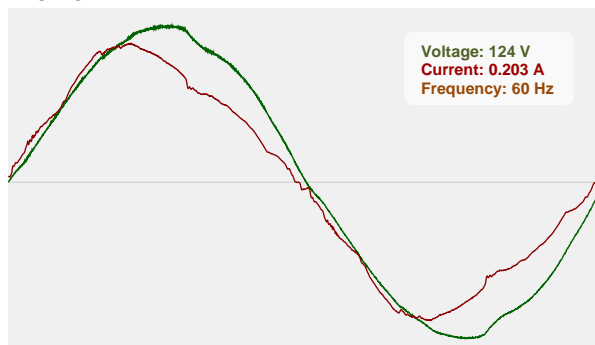


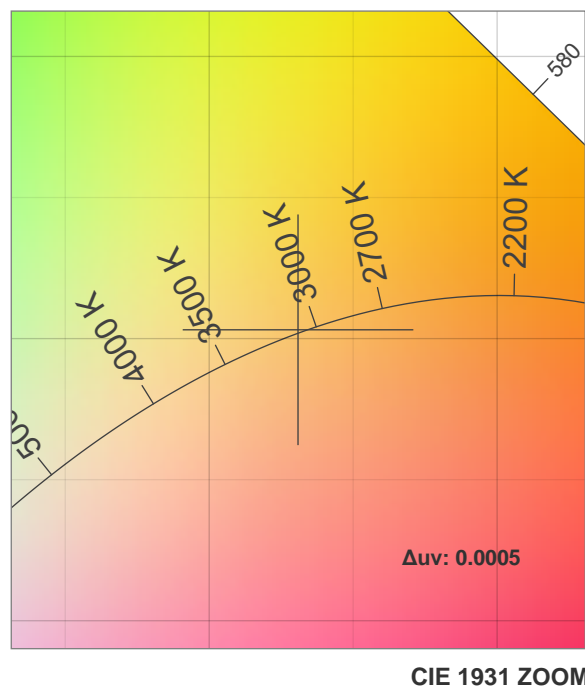
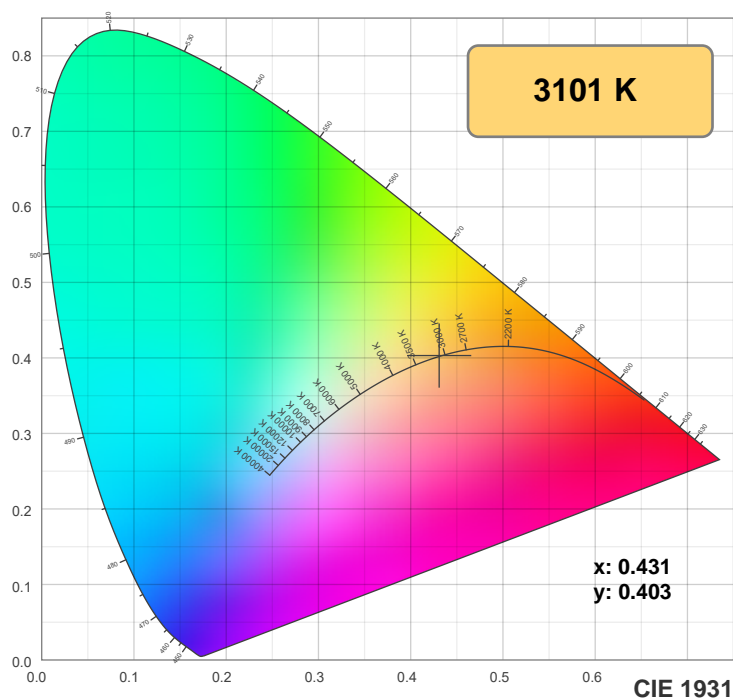
CIE 1931
x: 0.431
y: 0.403

Spectra

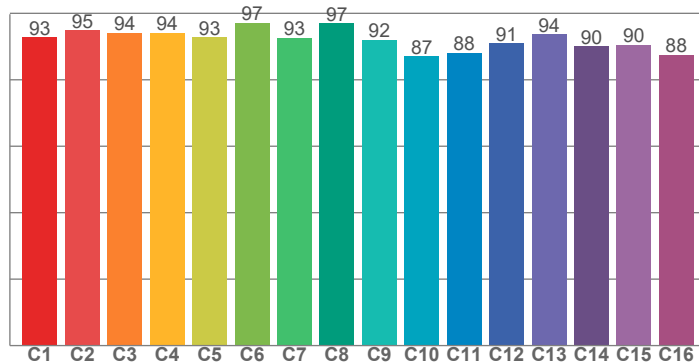


Power

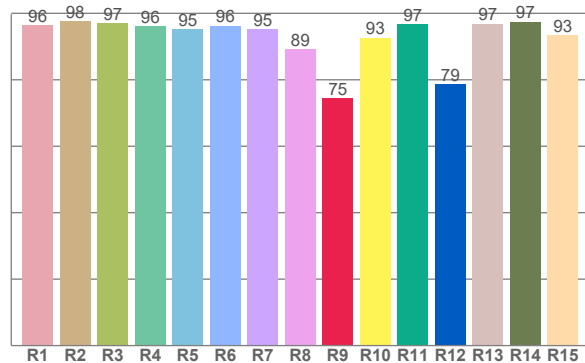




TM30: 92.2



CRI: 95.4 (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
96.3	97.7	97.0	96.1	95.2	96.2	95.3	89.1	74.5	92.7	96.8	78.6	96.9	97.4	93.3

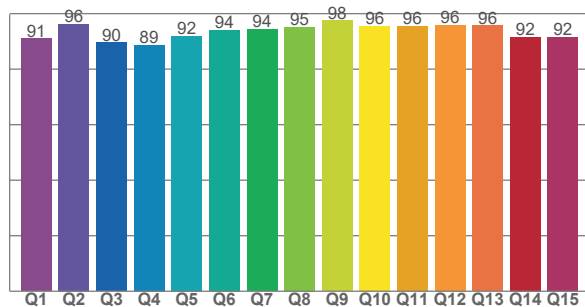
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.8	94.9	94.2	94.1	92.8	97.2	92.6	97.0	92.1	87.1	88.1	90.9	93.7	90.1	90.4	87.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.0	96.3	89.6	88.8	91.9	94.0	94.3	95.2	97.5	95.6	95.6	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
3101 K	95.4	74.5	92.2	99.0	93.0	0.431	0.403	0.247	0.347	0.0005

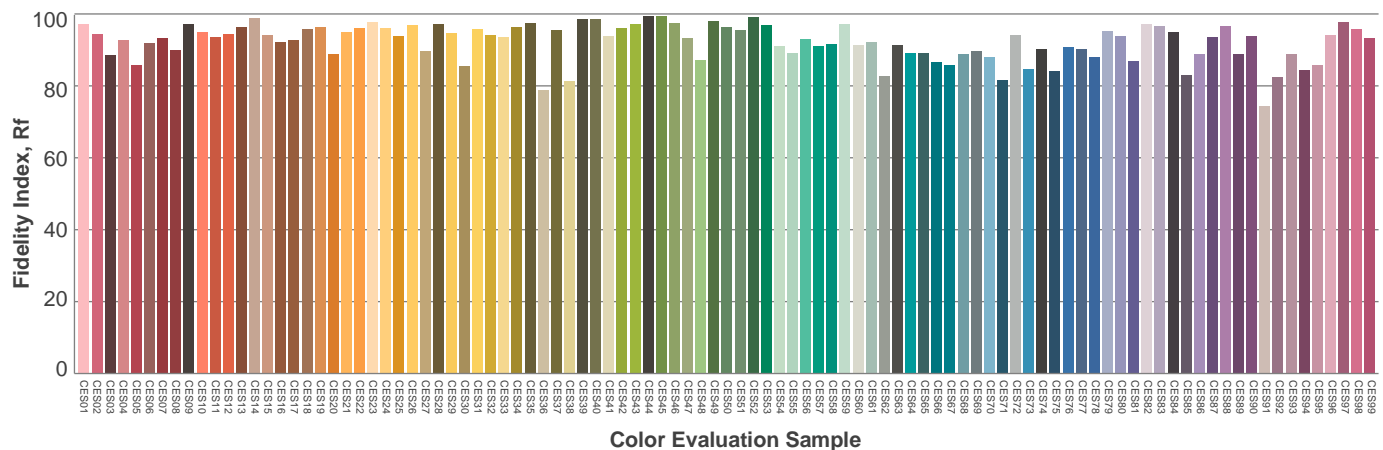
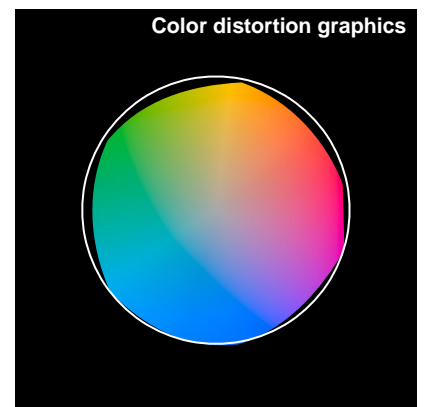
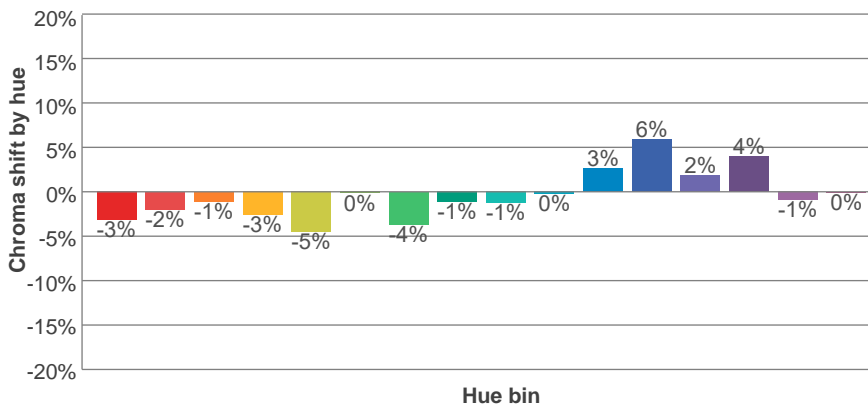
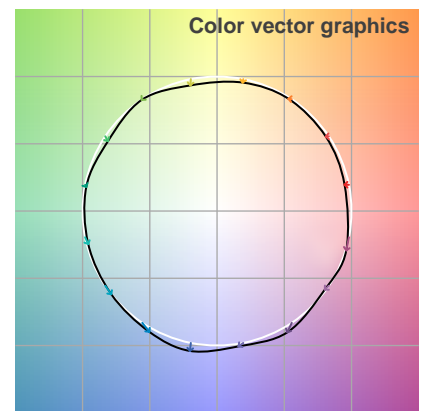
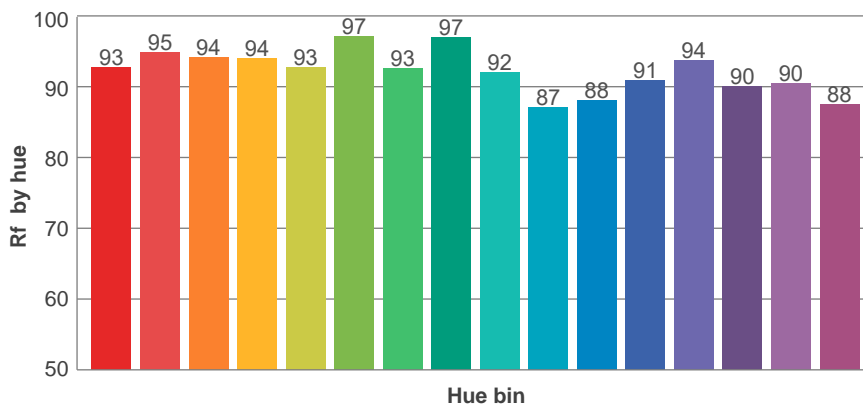
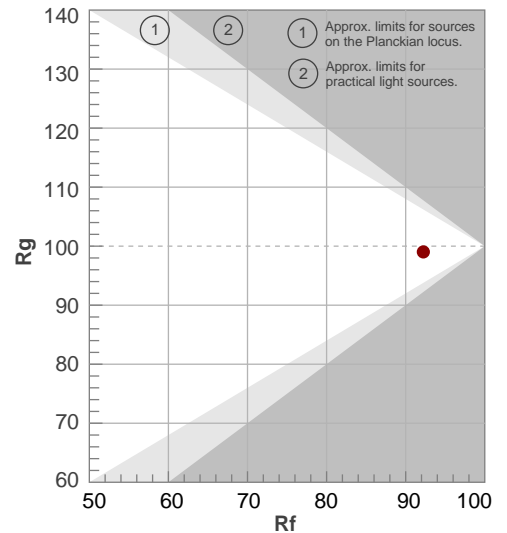
Rf 92.2

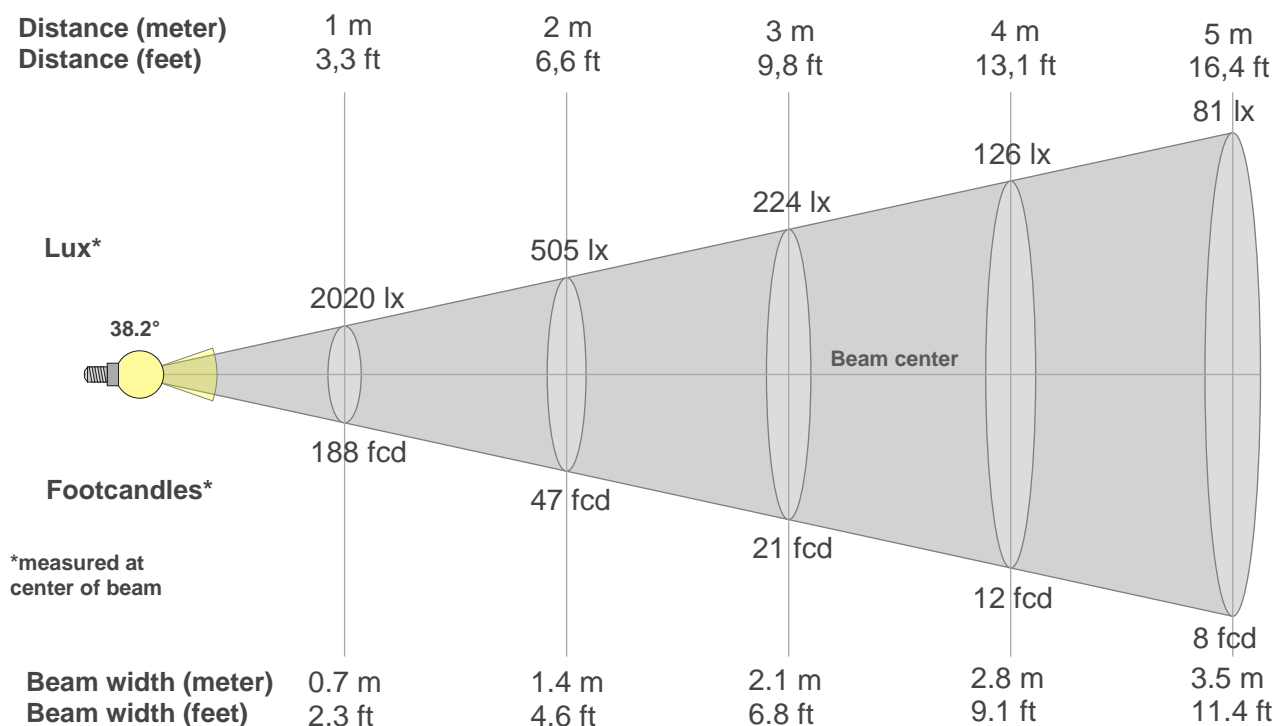
Fidelity index Rf

Rg 99.0

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	-5%	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	90	-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
2020lx	505lx	224lx	126lx	81lx	56lx	41lx	32lx	25lx	20lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx	5lx
187.7fcd	46.9fcd	20.9fcd	11.7fcd	7.5fcd	5.2fcd	3.8fcd	2.9fcd	2.3fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	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°
2020	2008	1971	1906	1799	1662	1506	1339	1169	1006	853	709	578	459	356	268	196	138	90	56
100%	99%	98%	94%	89%	82%	75%	66%	58%	50%	42%	35%	29%	23%	18%	13%	10%	7%	4%	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°
2020	2007	1970	1907	1823	1723	1609	1484	1351	1206	1054	897	744	606	490	389	303	229	168	119
100%	99%	98%	94%	90%	85%	80%	73%	67%	60%	52%	44%	37%	30%	24%	19%	15%	11%	8%	6%

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°
2020	2008	1971	1906	1799	1662	1506	1339	1169	1006	853	709	578	459	356	268	196	138	90	56
100%	99%	98%	94%	89%	82%	75%	66%	58%	50%	42%	35%	29%	23%	18%	13%	10%	7%	4%	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°
2020	2007	1970	1907	1823	1723	1609	1484	1351	1206	1054	897	744	606	490	389	303	229	168	119
100%	99%	98%	94%	90%	85%	80%	73%	67%	60%	52%	44%	37%	30%	24%	19%	15%	11%	8%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
38.2°	66.6°	80.9°	99.4%	98.8%