

Light efficiency:

40 Lumen/Watt

Light quality:

CRI: 95.4

Color temperature:

2990 K

Output: 746 lm

Peak: 1482 cd

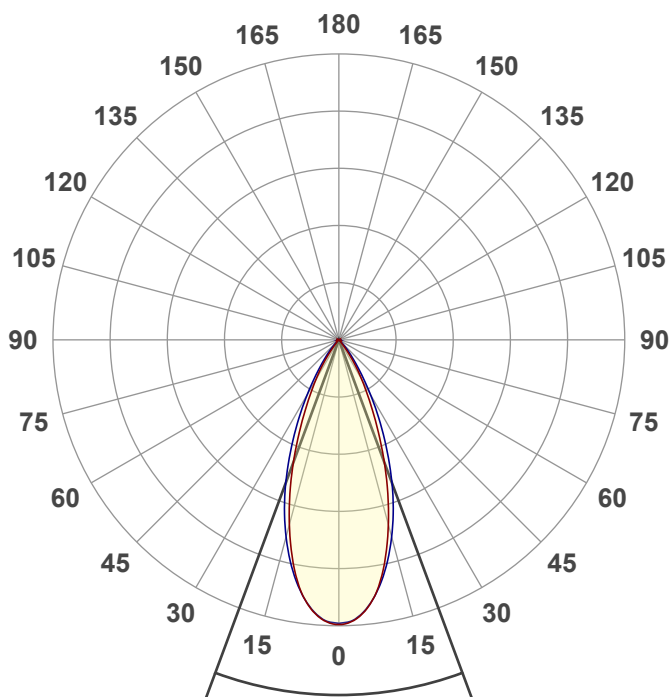
Power: 18.6 W

PF: 0.97



NU4-RAPH-WD-15LM-3018-97-35D-DL-WH

Date and time:
12/22/2021 10:57:50 AM



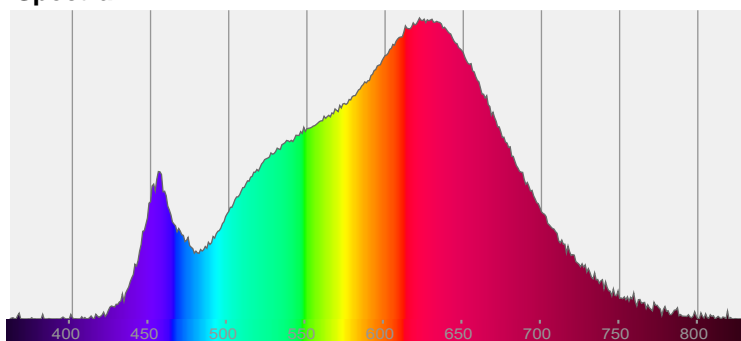
Beam angle

40.7°

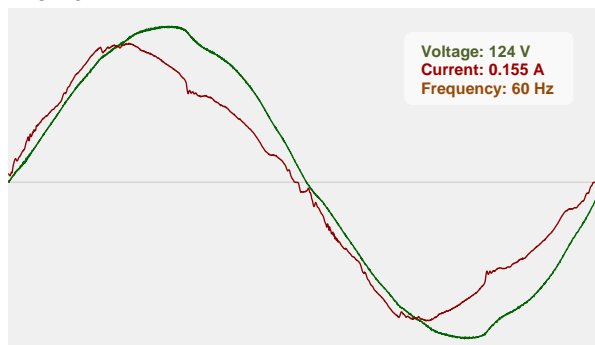


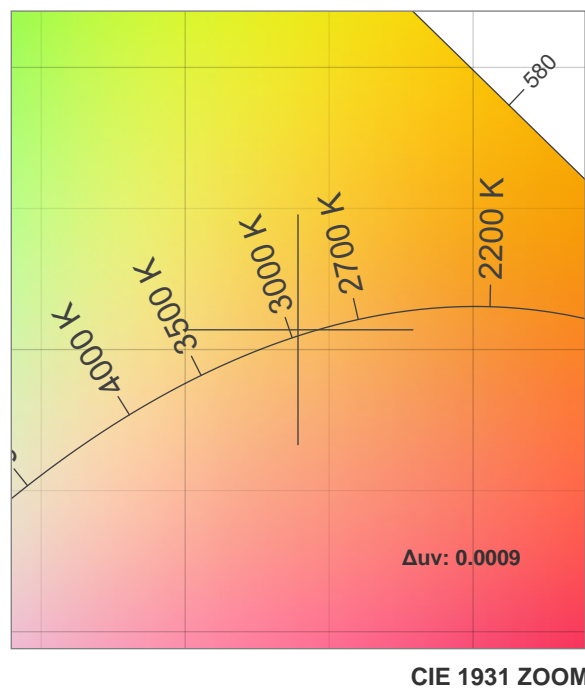
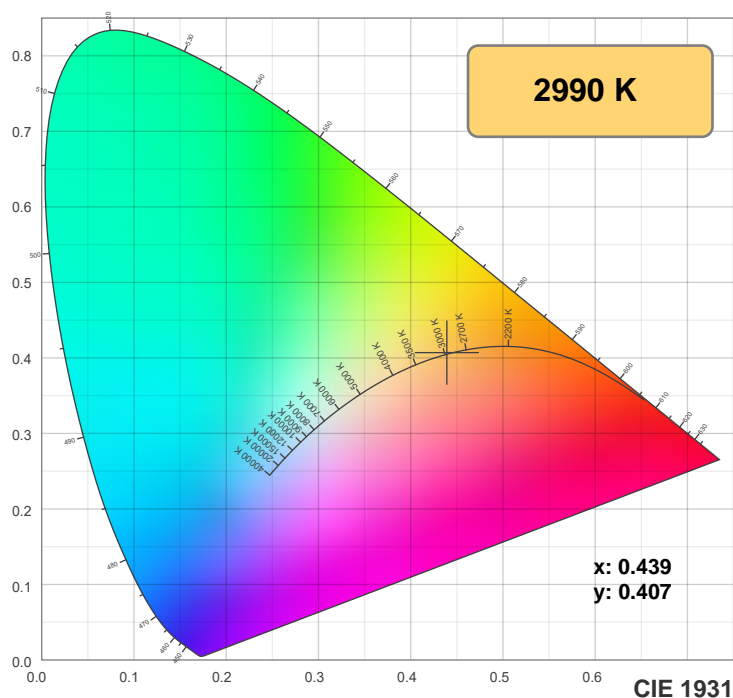
CIE 1931
x: 0.439
y: 0.407

Spectra

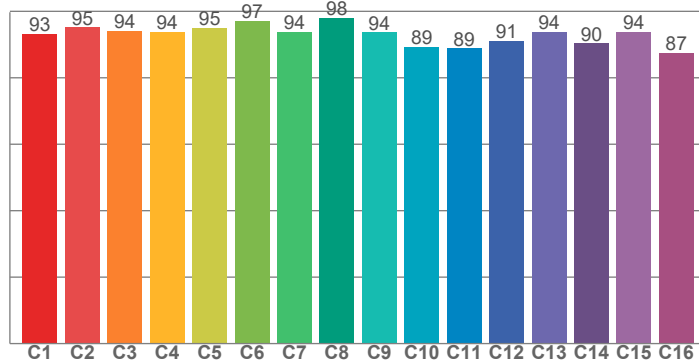


Power

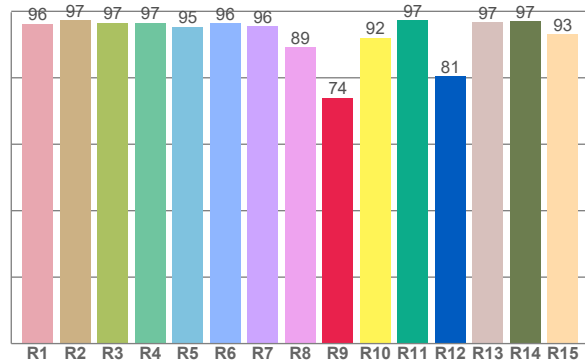




TM30: 92.9



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	97.3	96.5	96.6	95.4	96.3	95.6	89.1	74.0	92.0	97.3	80.5	96.7	97.1	93.1

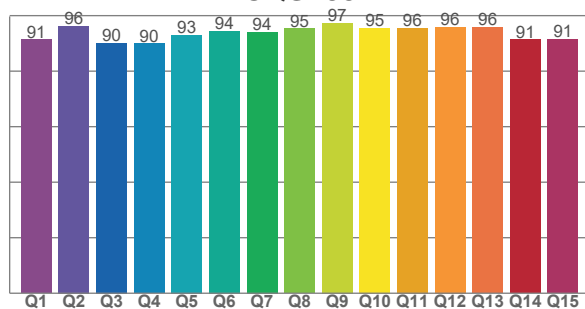
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.3	95.2	94.1	93.8	94.9	97.2	93.8	98.0	93.7	89.4	88.9	91.2	93.8	90.4	93.7	87.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.3	96.2	90.1	89.9	93.0	94.5	94.1	95.3	97.3	95.5	95.5	95.8	95.8	91.3	91.5

CQS: 93.2



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
2990 K	95.4	74.0	92.9	99.2	93.2	0.439	0.407	0.251	0.349	0.0009

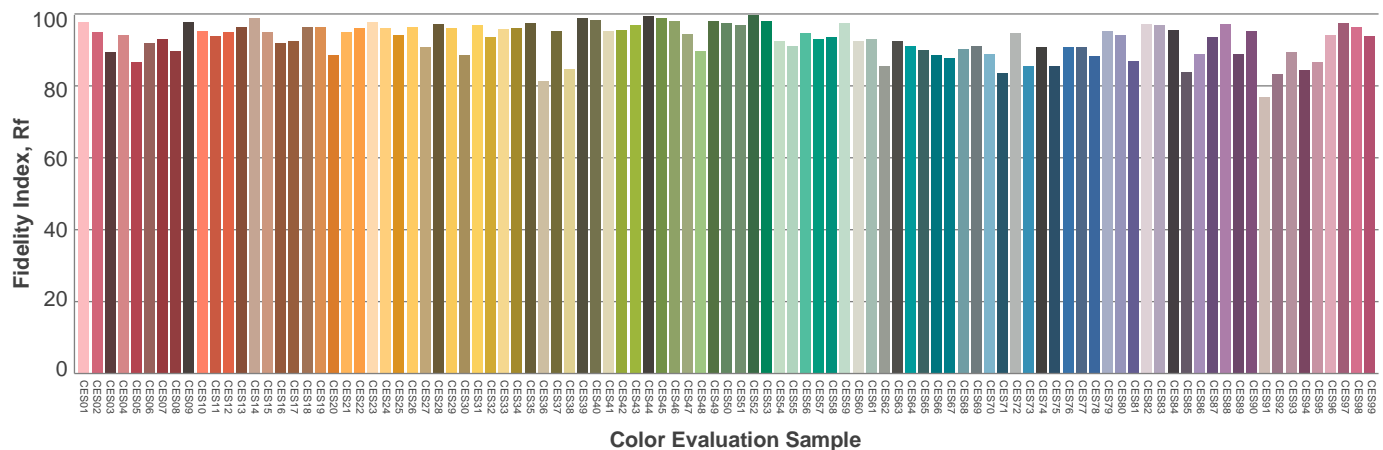
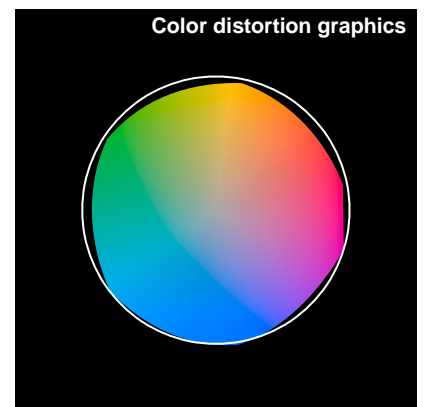
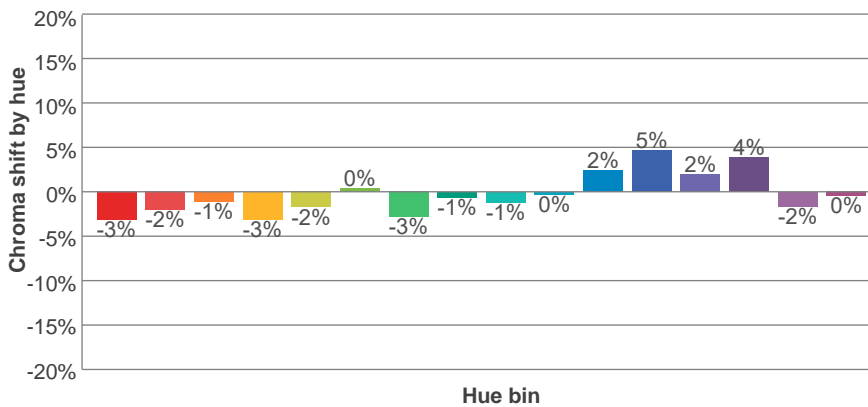
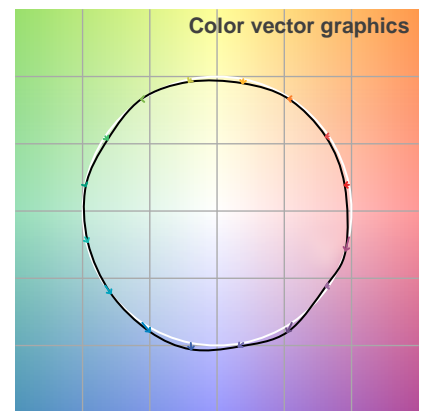
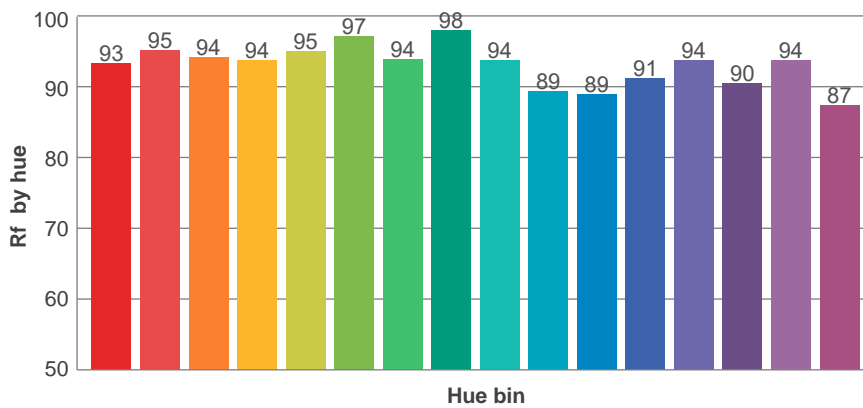
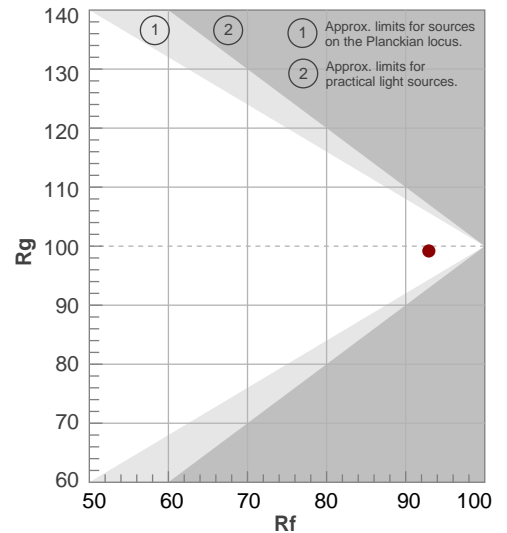
Rf 92.9

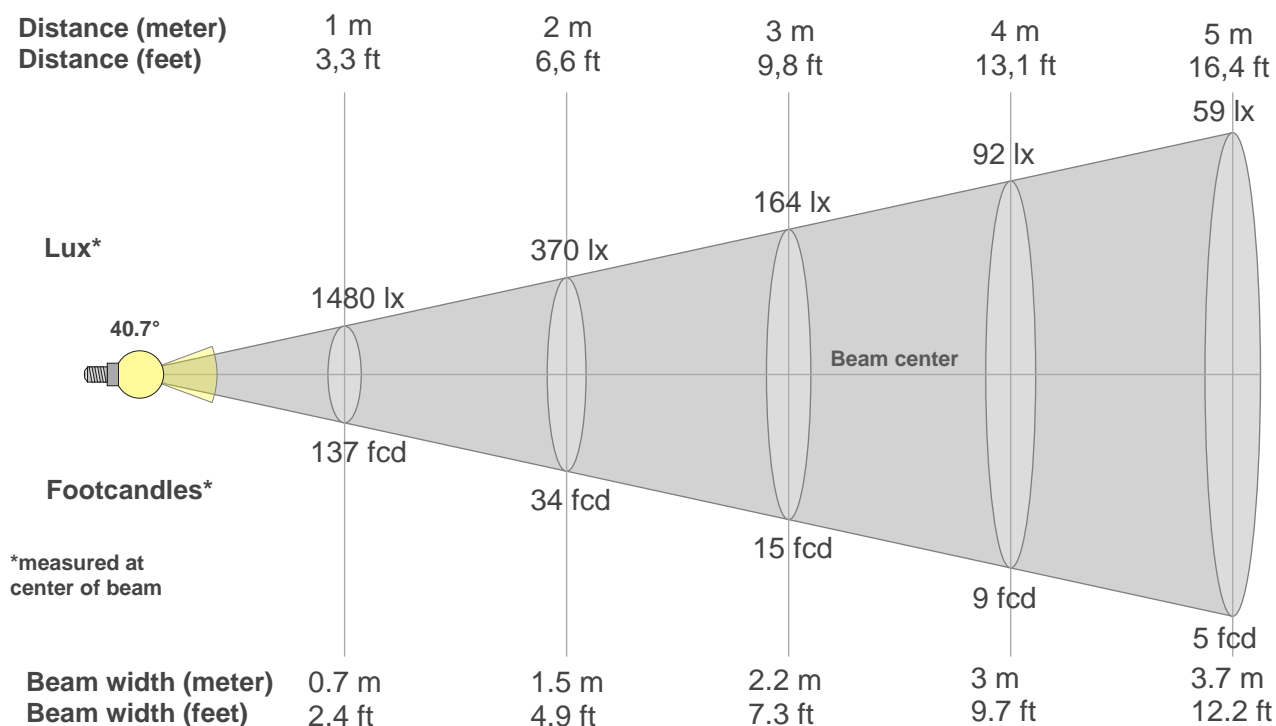
Fidelity index Rf

Rg 99.2

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	93	-3%	0%
2	95	-2%	1%
3	94	-1%	2%
4	94	-3%	0%
5	95	-2%	2%
6	97	0%	1%
7	94	-3%	1%
8	98	-1%	1%
9	94	-1%	4%
10	89	0%	7%
11	89	2%	8%
12	91	5%	1%
13	94	2%	-4%
14	90	4%	-6%
15	94	-2%	-2%
16	87	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
1480lx	370lx	164lx	92lx	59lx	41lx	30lx	23lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
137.5fcd	34.4fcd	15.3fcd	8.6fcd	5.5fcd	3.8fcd	2.8fcd	2.1fcd	1.7fcd	1.4fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd

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°
1480	1472	1447	1406	1343	1260	1161	1052	938	820	702	588	482	386	305	240	182	129	81	43
100%	99%	98%	95%	91%	85%	78%	71%	63%	55%	47%	40%	33%	26%	21%	16%	12%	9%	5%	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°
1480	1467	1442	1401	1345	1276	1195	1107	1014	916	814	707	604	507	415	331	254	193	144	105
100%	99%	97%	95%	91%	86%	81%	75%	69%	62%	55%	48%	41%	34%	28%	22%	17%	13%	10%	7%

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°
1480	1472	1447	1406	1343	1260	1161	1052	938	820	702	588	482	386	305	240	182	129	81	43
100%	99%	98%	95%	91%	85%	78%	71%	63%	55%	47%	40%	33%	26%	21%	16%	12%	9%	5%	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°
1480	1467	1442	1401	1345	1276	1195	1107	1014	916	814	707	604	507	415	331	254	193	144	105
100%	99%	97%	95%	91%	86%	81%	75%	69%	62%	55%	48%	41%	34%	28%	22%	17%	13%	10%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
40.7°	69.1°	81.9°	99.4%	99.0%