

Light efficiency:

46 Lumen/Watt

Light quality:

CRI: 95.4

Color temperature:

2996 K

Output: 858 lm

Peak: 2556 cd

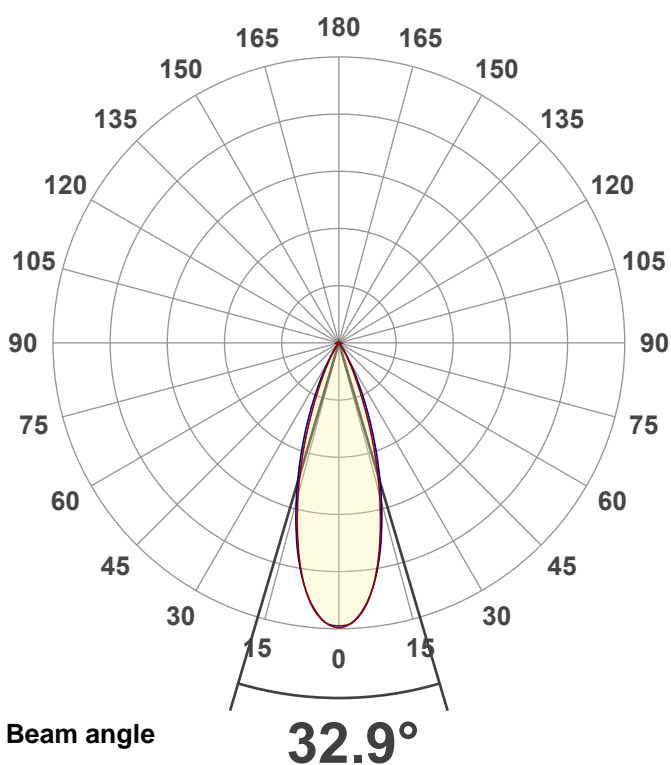
Power: 18.6 W

PF: 0.97



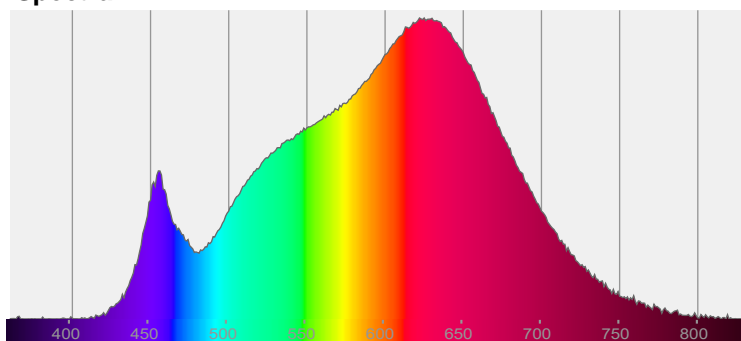
NU4-RAPH-WD-15LM-3018-97-35D-HET-WH

Date and time:  
12/22/2021 11:21:45 AM

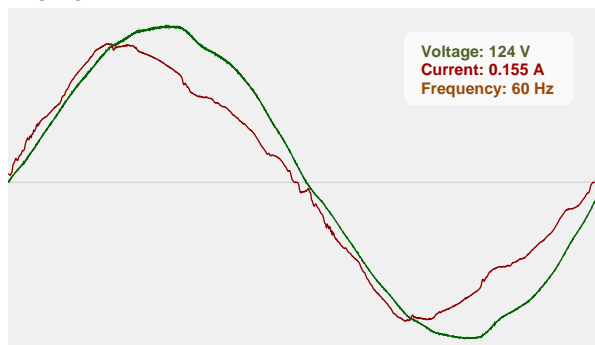


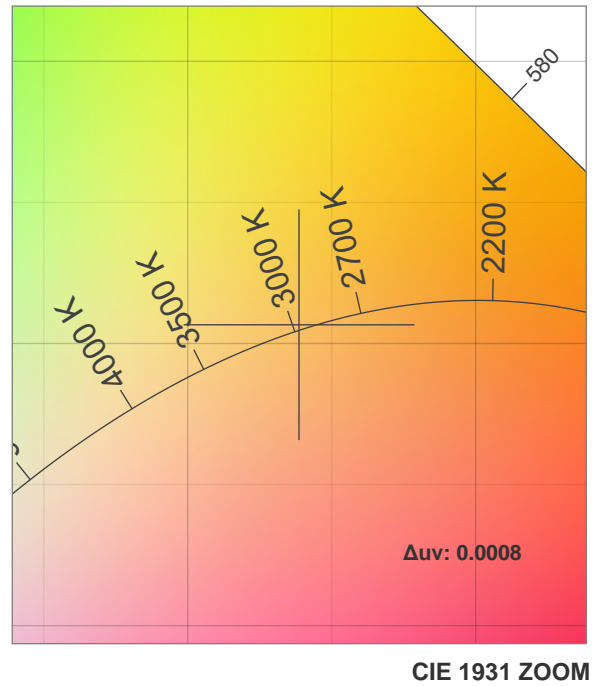
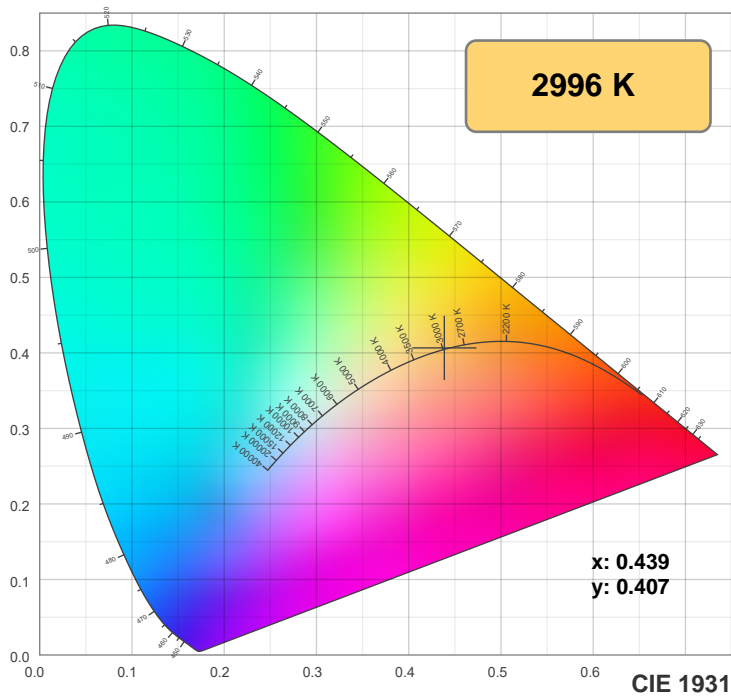
CIE 1931  
x: 0.439  
y: 0.407

Spectra

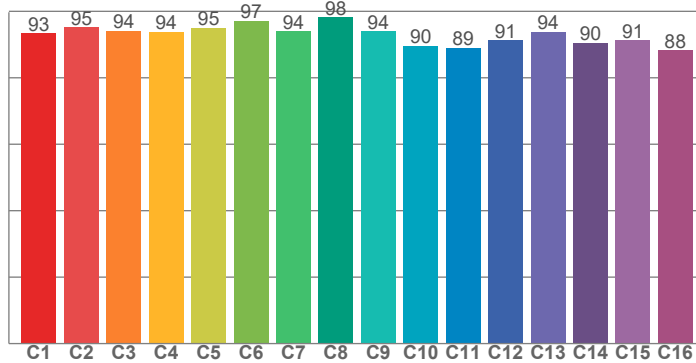


Power

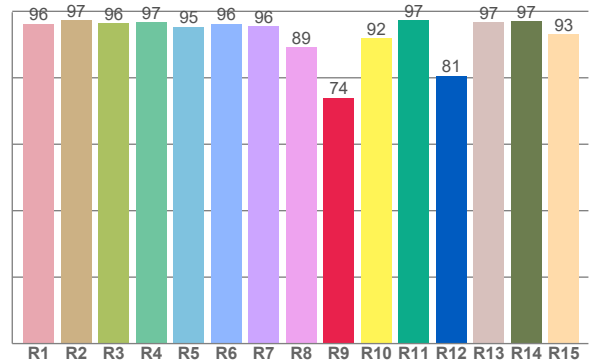




TM30: 93.0



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	80.7	96.7	97.1	93.1

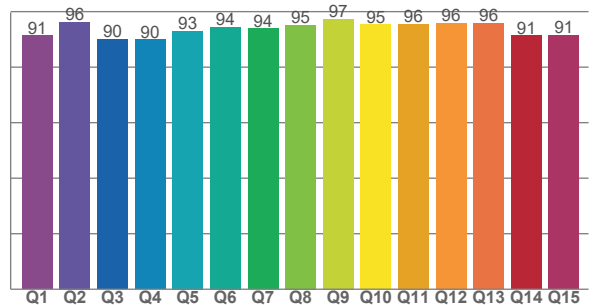
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.3	95.2	94.0	93.9	95.0	97.1	94.0	98.1	93.9	89.5	88.9	91.2	93.8	90.5	91.3	88.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.4	96.3	90.0	89.9	93.0	94.5	93.9	95.2	97.3	95.4	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
2996 K	95.4	74.0	93.0	99.4	93.2	0.439	0.407	0.251	0.348	0.0008

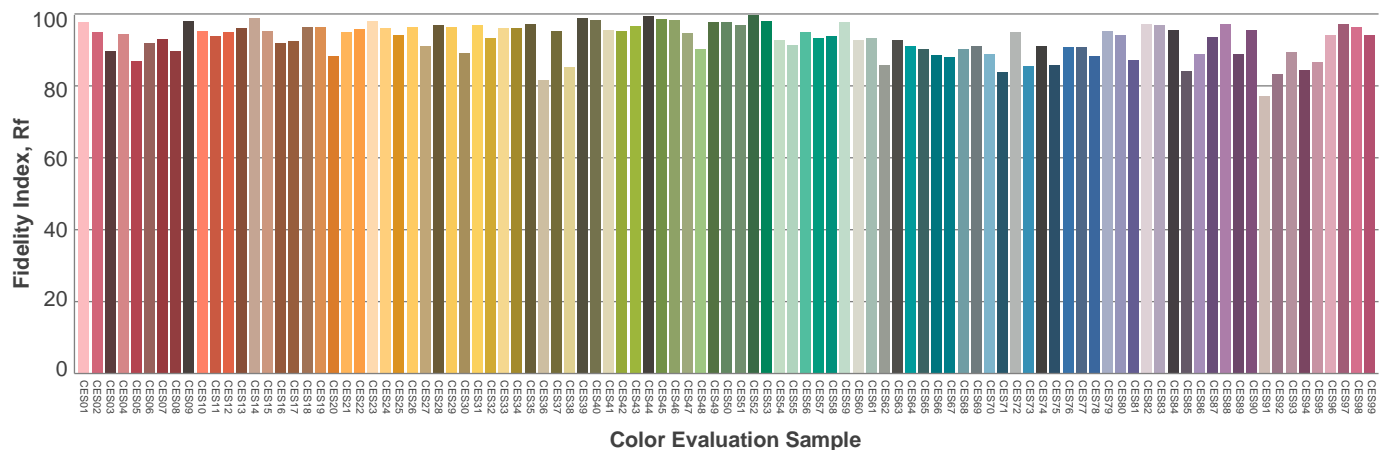
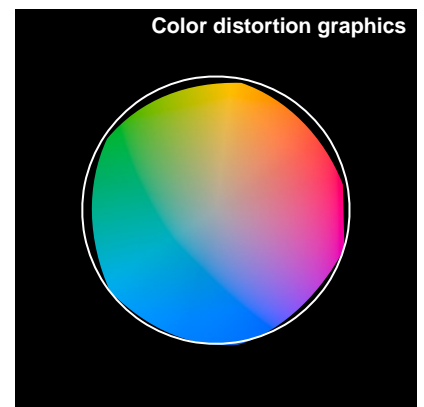
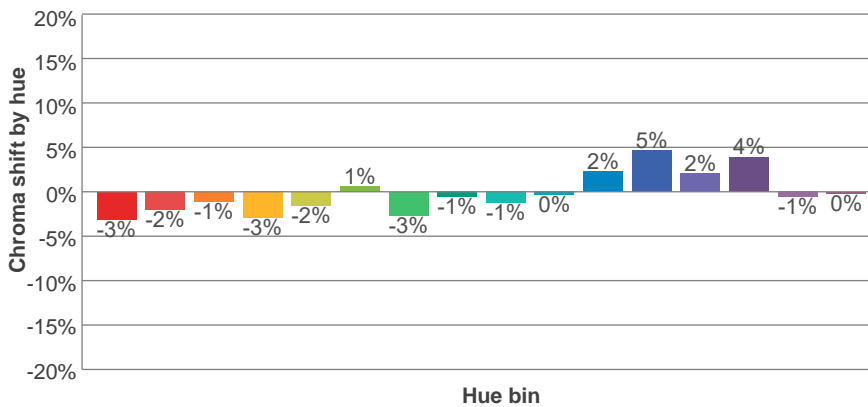
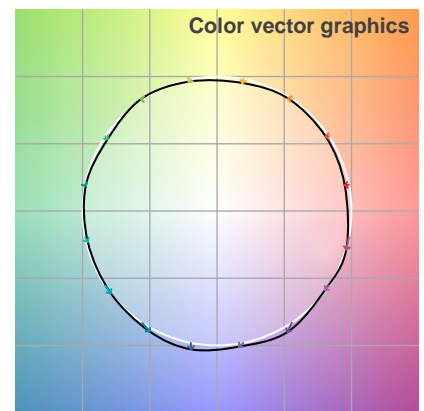
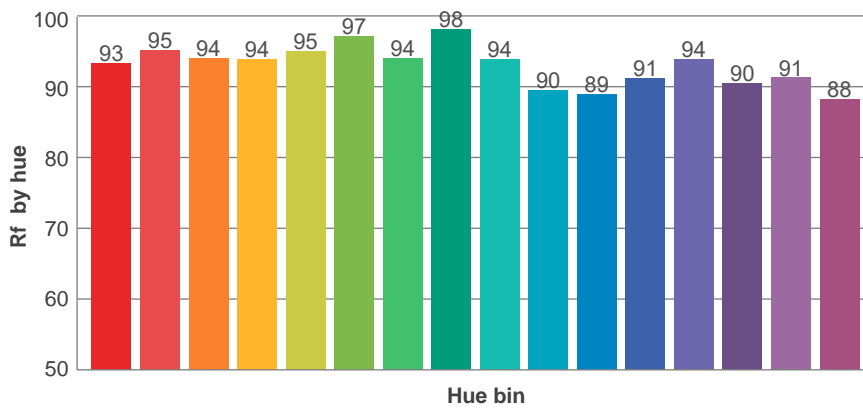
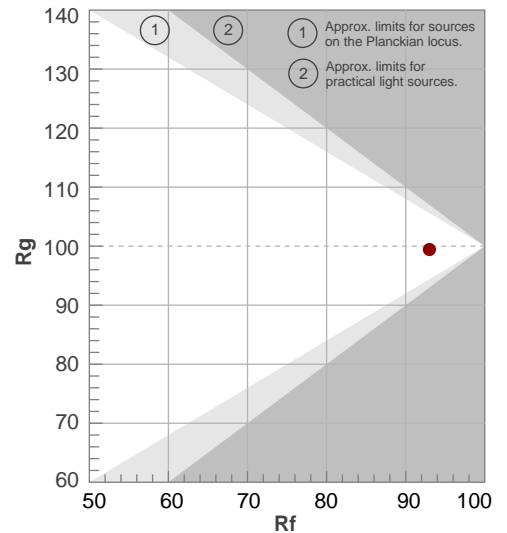
**Rf 93.0**

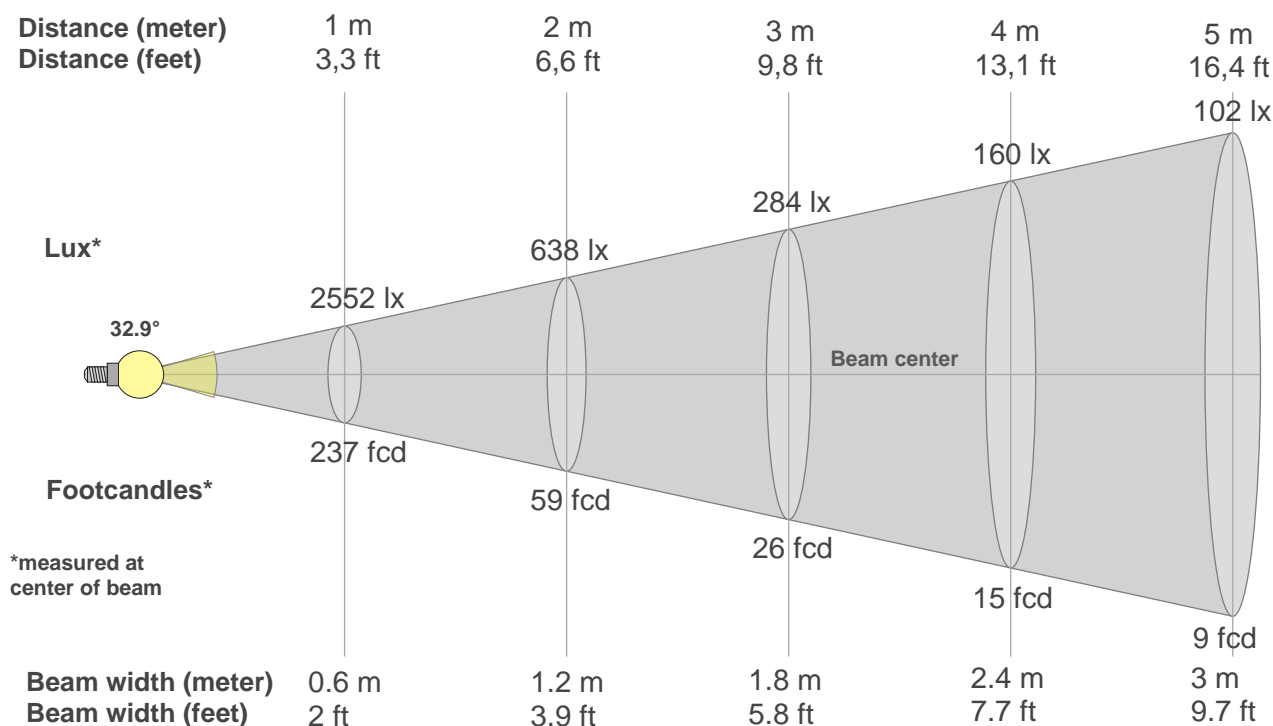
Fidelity index Rf

**Rg 99.4**

Gammut index Rg

Hue Bin	R <sub>f</sub>	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	1%	1%
7	94	-3%	1%
8	98	-1%	1%
9	94	-1%	4%
10	90	0%	7%
11	89	2%	8%
12	91	5%	1%
13	94	2%	-4%
14	90	4%	-6%
15	91	-1%	-4%
16	88	0%	-9%





#### 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
2552lx	638lx	284lx	160lx	102lx	71lx	52lx	40lx	32lx	26lx	21lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
237.1fcd	59.3fcd	26.3fcd	14.8fcd	9.5fcd	6.6fcd	4.8fcd	3.7fcd	2.9fcd	2.4fcd	2fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.7fcd	0.6fcd

#### 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°
2552	2530	2468	2364	2211	2010	1781	1539	1294	1051	814	606	444	317	219	144	89	51	27	13
100%	99%	97%	93%	87%	79%	70%	60%	51%	41%	32%	24%	17%	12%	9%	6%	3%	2%	1%	1%

#### 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°
2552	2530	2464	2353	2206	2027	1821	1596	1367	1140	927	731	556	404	280	190	125	79	49	30
100%	99%	97%	92%	86%	79%	71%	63%	54%	45%	36%	29%	22%	16%	11%	7%	5%	3%	2%	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°
2552	2530	2468	2364	2211	2010	1781	1539	1294	1051	814	606	444	317	219	144	89	51	27	13
100%	99%	97%	93%	87%	79%	70%	60%	51%	41%	32%	24%	17%	12%	9%	6%	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°
2552	2530	2464	2353	2206	2027	1821	1596	1367	1140	927	731	556	404	280	190	125	79	49	30
100%	99%	97%	92%	86%	79%	71%	63%	54%	45%	36%	29%	22%	16%	11%	7%	5%	3%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.9°	55.6°	68.2°	99.5%	99.3%