

Light efficiency:

38 Lumen/Watt

Light quality:

CRI: 95.3

Color temperature:

2988 K

Output: 707 lm

Peak: 1619 cd

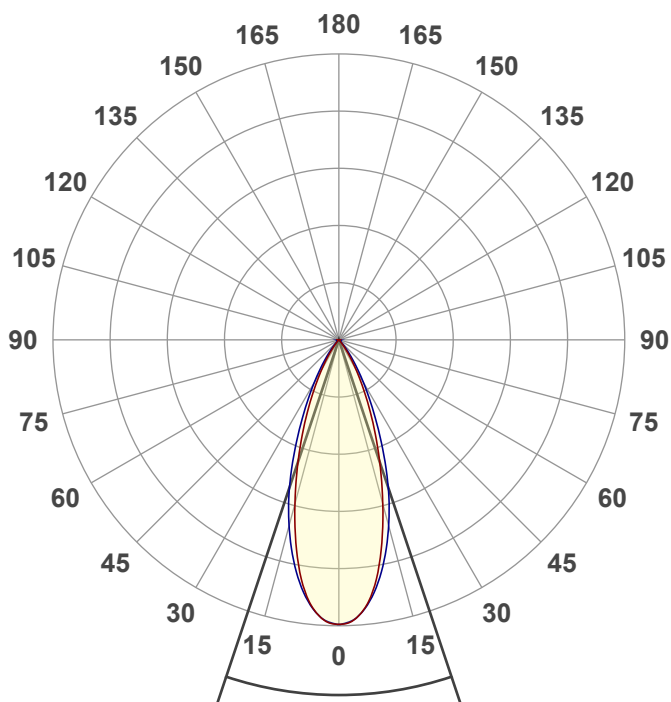
Power: 18.6 W

PF: 0.97



NU4-RAPH-WD-15LM-3018-97-25D-DL-WH

Date and time:  
12/22/2021 10:50:26 AM



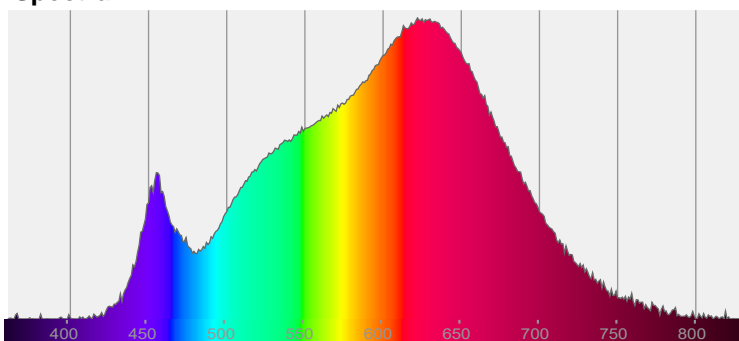
Beam angle

37°

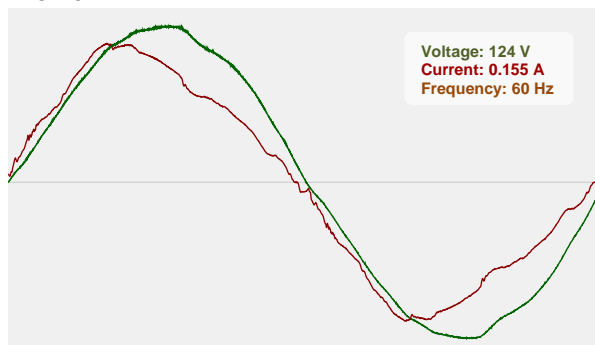


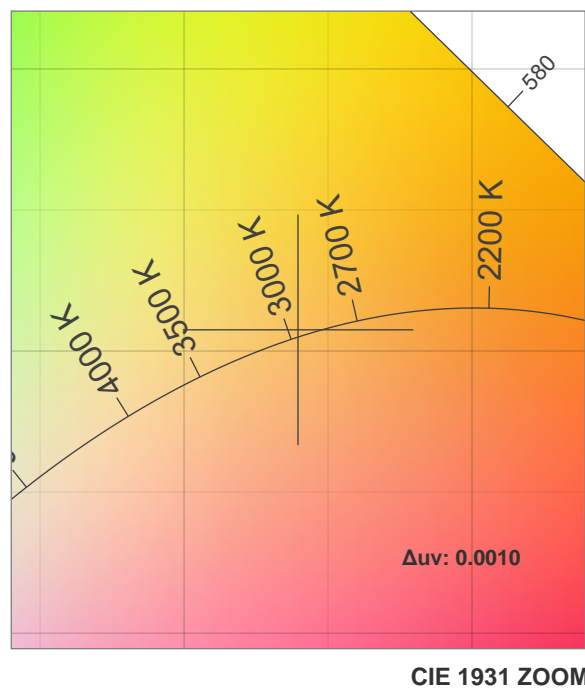
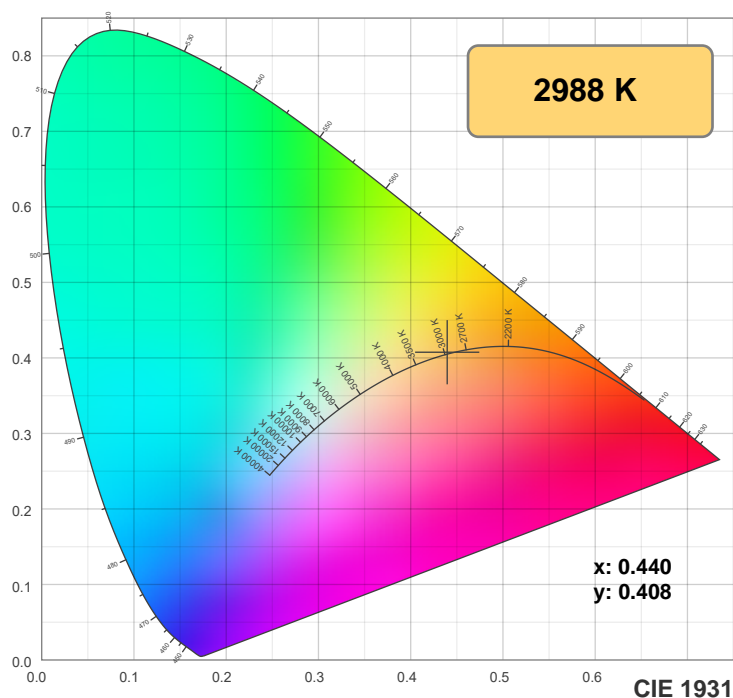
CIE 1931  
x: 0.440  
y: 0.408

Spectra

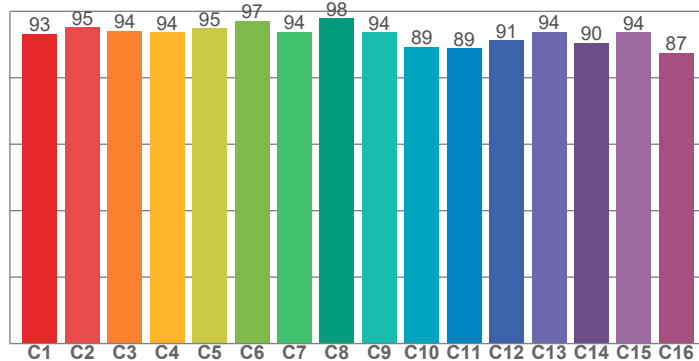


Power

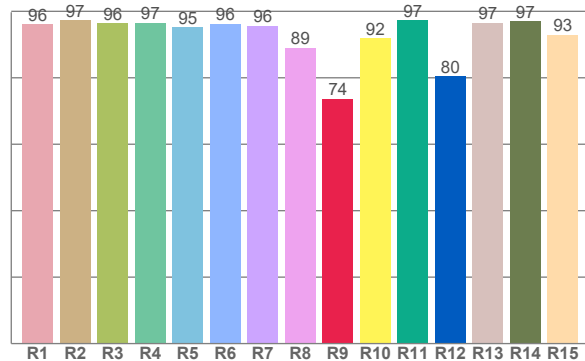




TM30: 92.9



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
96.2	97.2	96.5	96.6	95.2	96.3	95.6	89.0	73.7	91.8	97.3	80.4	96.6	97.1	92.9

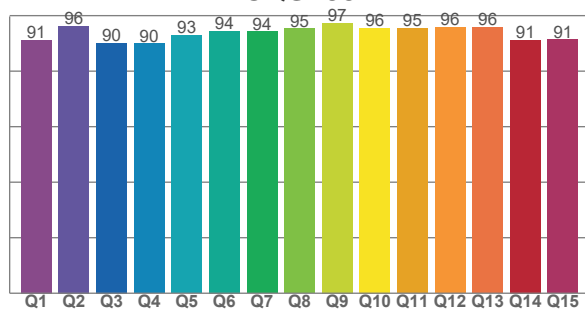
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.2	95.1	94.2	93.7	94.9	97.2	93.8	97.9	93.6	89.3	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
91.2	96.2	90.2	89.9	92.9	94.4	94.2	95.4	97.3	95.5	95.4	95.8	95.8	91.2	91.4

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	$\Delta uv$
2988 K	95.3	73.7	92.9	99.1	93.2	0.440	0.408	0.251	0.349	0.0010

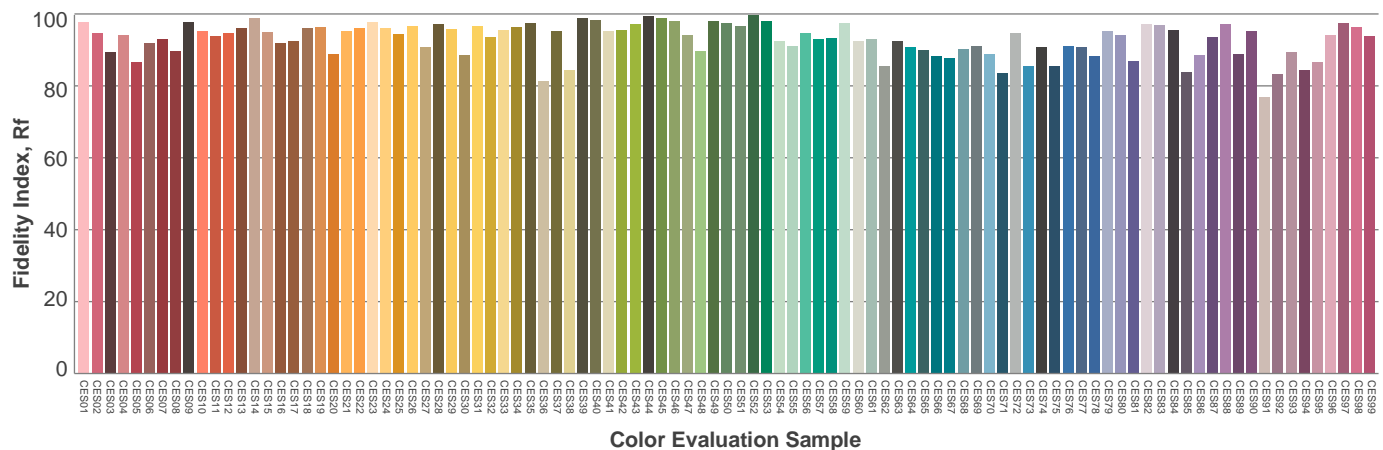
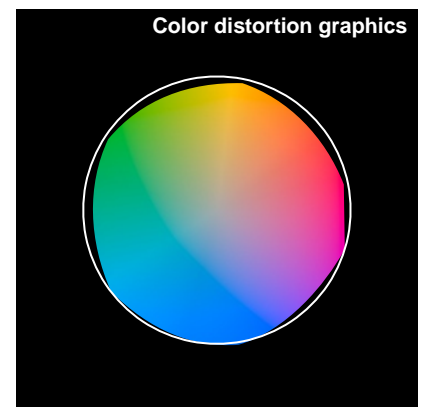
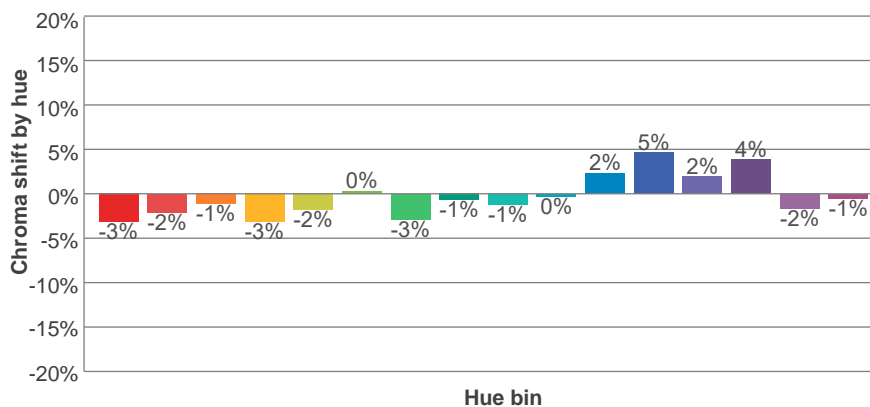
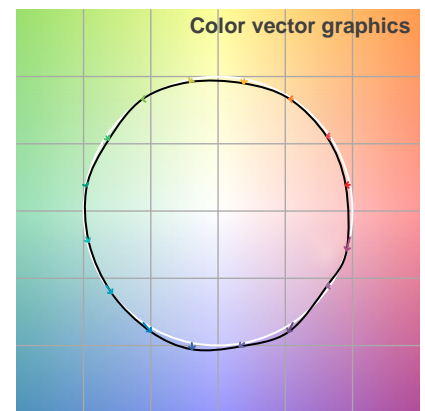
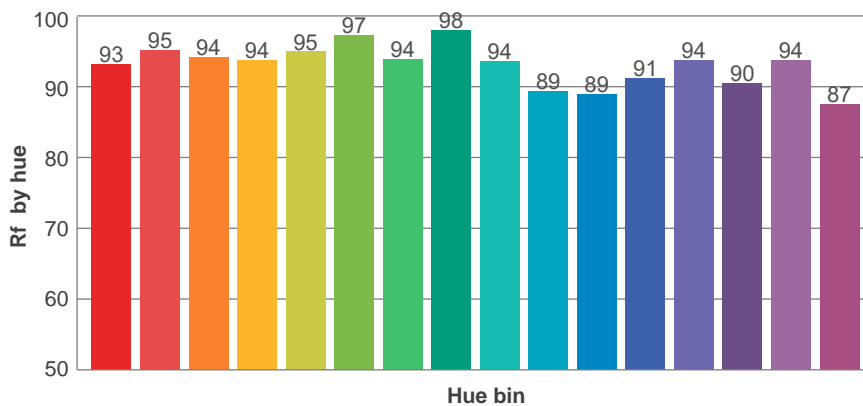
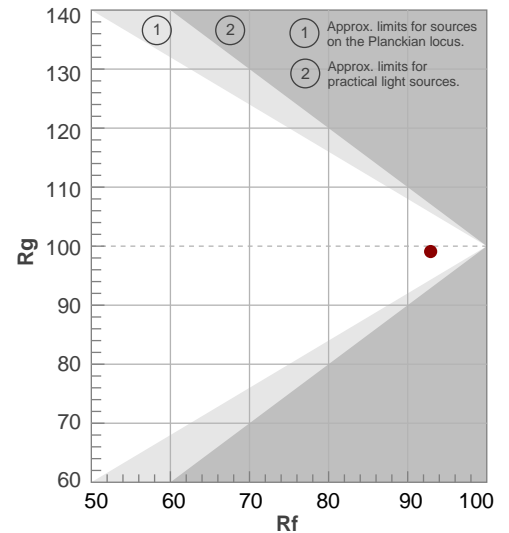
## Rf 92.9

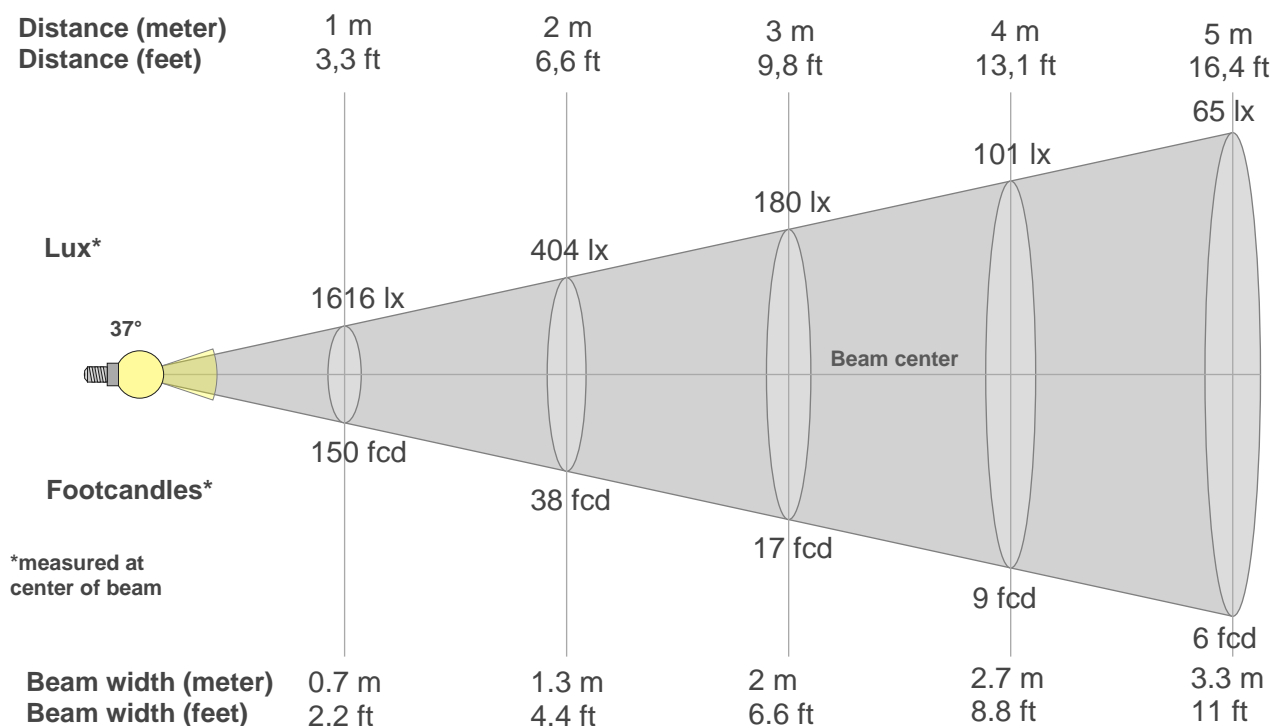
## Fidelity index $R_f$

## Rg 99.1

## Gammut index Rg

		Graphic shifts (%)	
Hue Bin	$R_i$	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	-1%	-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
1616lx	404lx	180lx	101lx	65lx	45lx	33lx	25lx	20lx	16lx	13lx	11lx	10lx	8lx	7lx	6lx	6lx	5lx	4lx	4lx
150.1fcd	37.5fcd	16.7fcd	9.4fcd	6fcd	4.2fcd	3.1fcd	2.3fcd	1.9fcd	1.5fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd

#### 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°
1616	1605	1573	1510	1420	1306	1174	1035	895	764	642	529	426	335	259	196	144	100	63	36
100%	99%	97%	93%	88%	81%	73%	64%	55%	47%	40%	33%	26%	21%	16%	12%	9%	6%	4%	2%

#### 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°
1616	1601	1569	1517	1446	1357	1256	1148	1034	915	788	662	546	443	354	278	214	160	117	83
100%	99%	97%	94%	90%	84%	78%	71%	64%	57%	49%	41%	34%	27%	22%	17%	13%	10%	7%	5%

#### 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°
1616	1605	1573	1510	1420	1306	1174	1035	895	764	642	529	426	335	259	196	144	100	63	36
100%	99%	97%	93%	88%	81%	73%	64%	55%	47%	40%	33%	26%	21%	16%	12%	9%	6%	4%	2%

#### 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°
1616	1601	1569	1517	1446	1357	1256	1148	1034	915	788	662	546	443	354	278	214	160	117	83
100%	99%	97%	94%	90%	84%	78%	71%	64%	57%	49%	41%	34%	27%	22%	17%	13%	10%	7%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
37°	65.3°	79.9°	99.3%	98.9%