

Light efficiency:

43 Lumen/Watt

Light quality:

CRI: 95.3

Color temperature:

2994 K

Output: 805 lm

Peak: 3224 cd

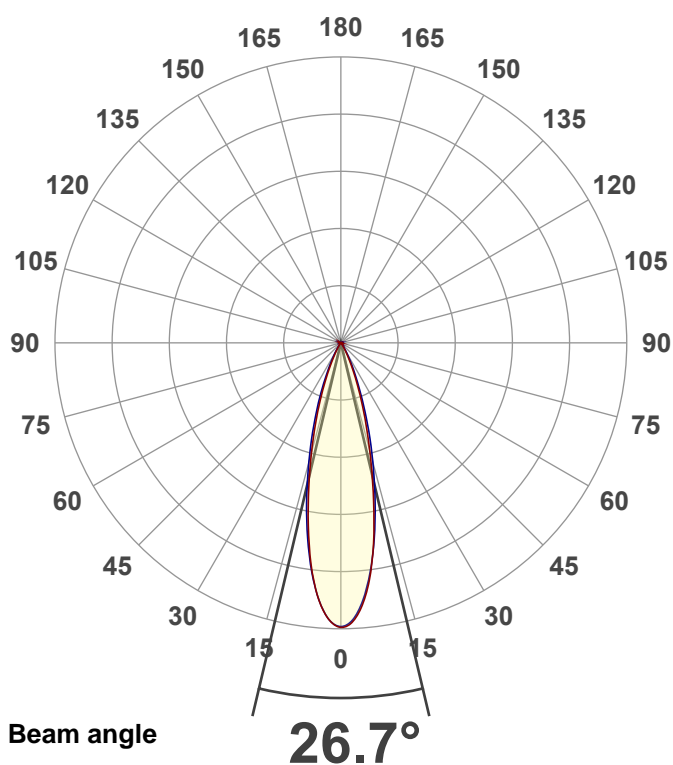
Power: 18.6 W

PF: 0.97



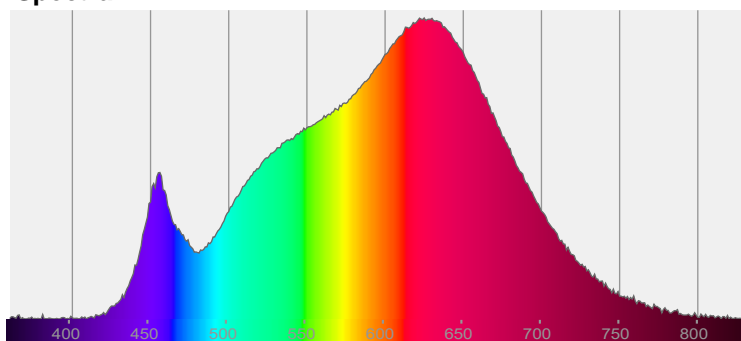
NU4-RAPH-WD-15LM-3018-97-25D-HET-WH

Date and time:  
12/22/2021 11:41:52 AM

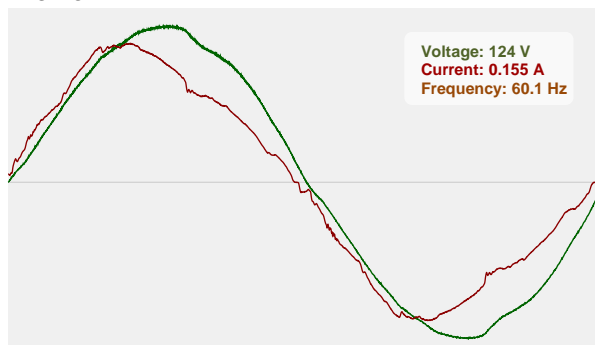


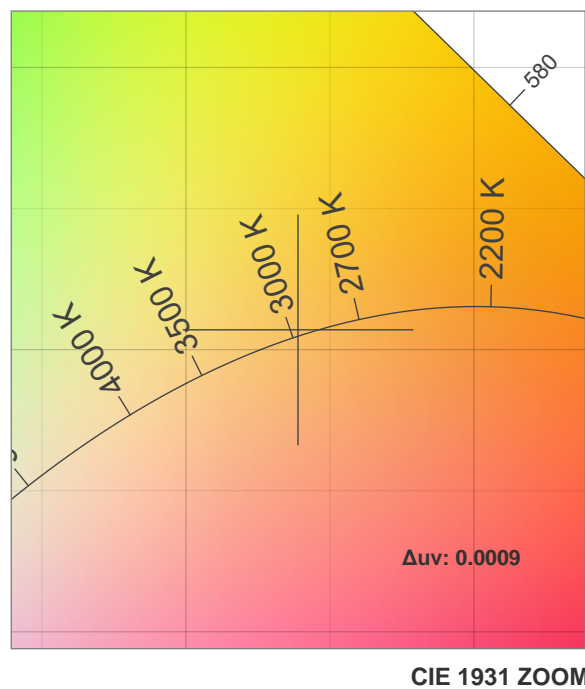
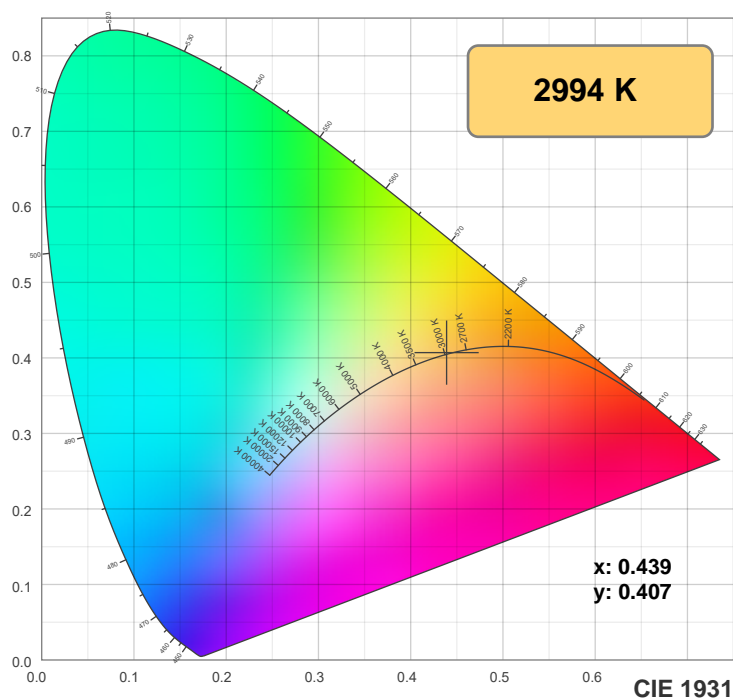
CIE 1931  
x: 0.439  
y: 0.407

Spectra

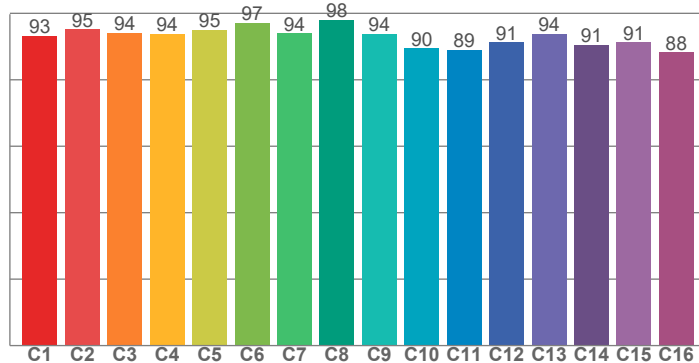


Power

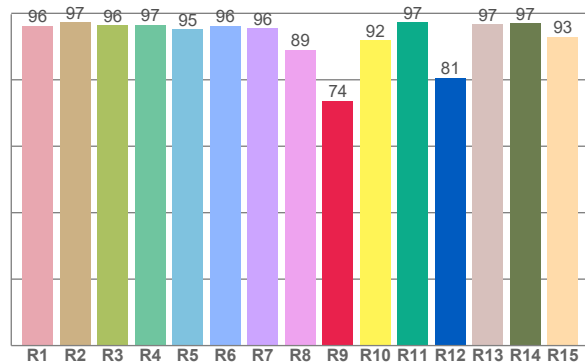




TM30: 93.0



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	96.5	95.3	96.3	95.6	89.0	73.7	91.8	97.2	80.6	96.6	97.1	93.0

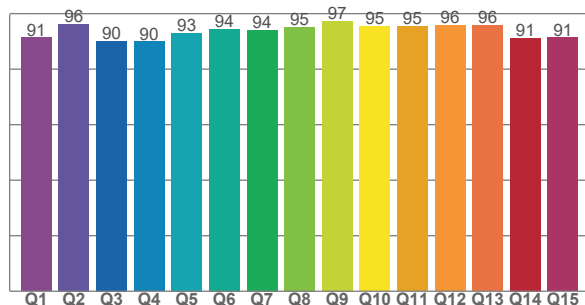
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.3	95.1	94.1	93.9	95.0	97.2	94.0	98.1	93.9	89.5	89.0	91.2	93.8	90.5	91.2	88.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.3	96.3	90.1	89.9	93.0	94.4	94.0	95.3	97.3	95.4	95.5	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	$\Delta uv$
2994 K	95.3	73.7	93.0	99.3	93.2	0.439	0.407	0.251	0.349	0.0009

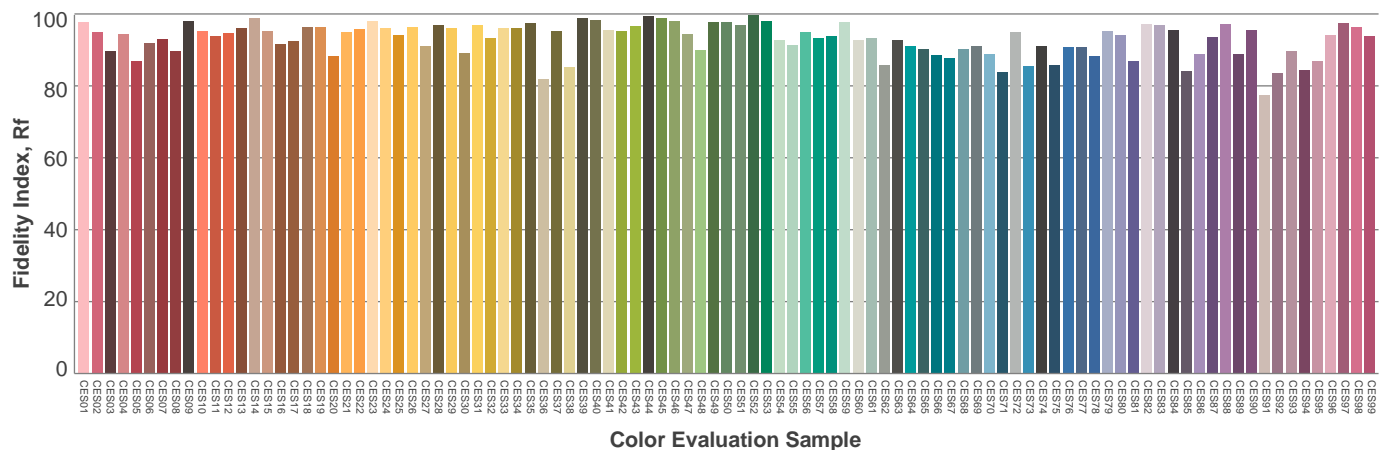
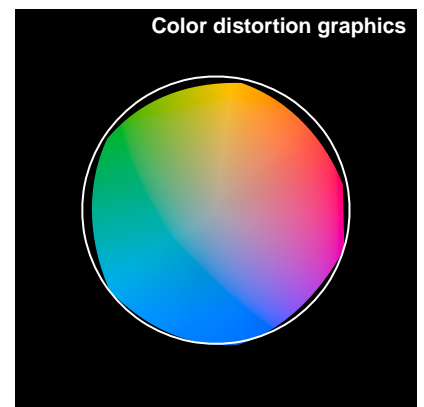
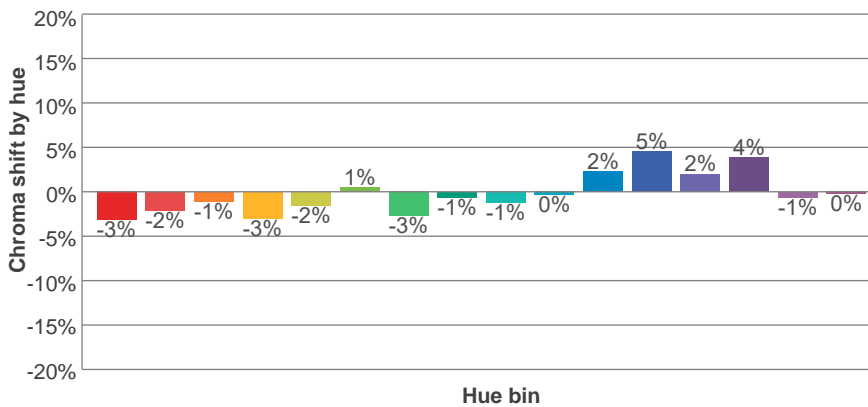
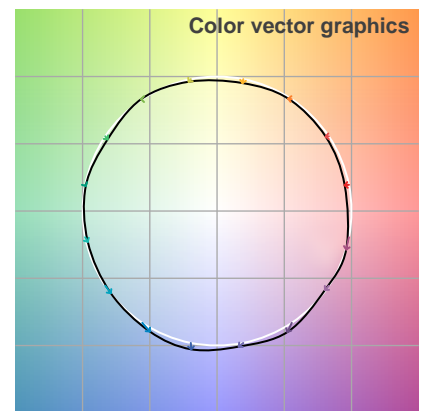
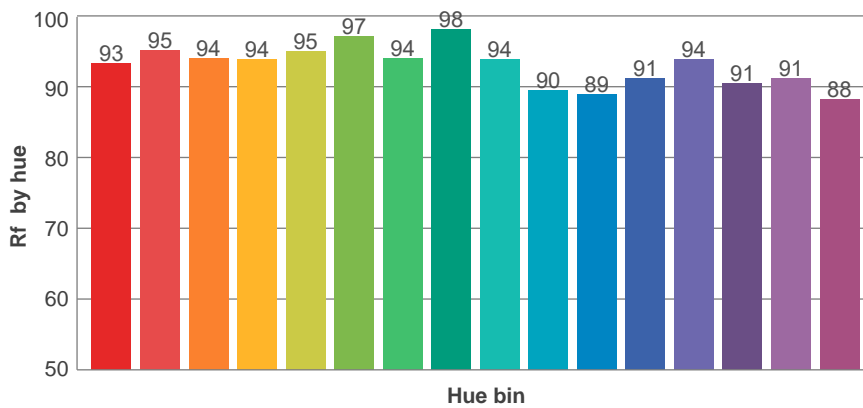
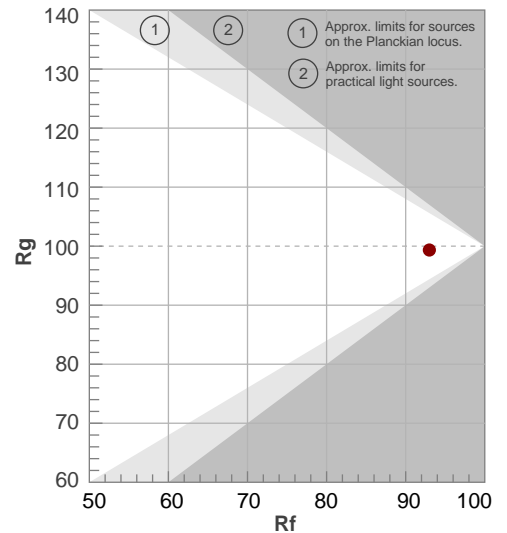
**Rf 93.0**

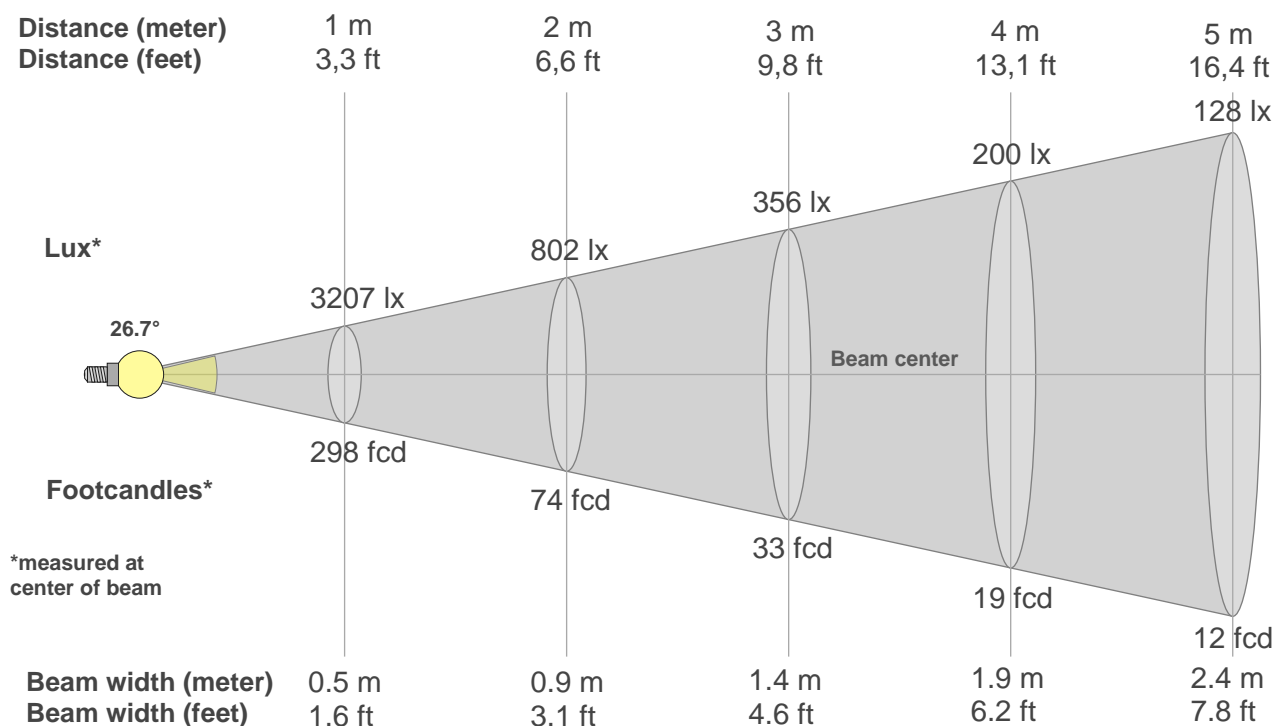
Fidelity index Rf

**Rg 99.3**

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	91	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
3207lx	802lx	356lx	200lx	128lx	89lx	65lx	50lx	40lx	32lx	27lx	22lx	19lx	16lx	14lx	13lx	11lx	10lx	9lx	8lx
298fcd	74.5fcd	33.1fcd	18.6fcd	11.9fcd	8.3fcd	6.1fcd	4.7fcd	3.7fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

#### 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°
3207	3178	3033	2808	2509	2154	1773	1421	1121	867	651	473	333	224	148	96	61	37	21	10
100%	99%	95%	88%	78%	67%	55%	44%	35%	27%	20%	15%	10%	7%	5%	3%	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°
3207	3148	2999	2777	2502	2193	1865	1550	1260	994	756	557	410	299	210	143	93	57	36	22
100%	98%	94%	87%	78%	68%	58%	48%	39%	31%	24%	17%	13%	9%	7%	4%	3%	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°
3207	3145	2996	2768	2469	2117	1765	1439	1147	890	666	479	334	222	141	87	51	27	15	8
100%	98%	93%	86%	77%	66%	55%	45%	36%	28%	21%	15%	10%	7%	4%	3%	2%	1%	0%	0%

#### 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°
3207	3147	2995	2771	2495	2185	1865	1549	1264	1007	780	585	418	297	206	138	89	55	33	19
100%	98%	93%	86%	78%	68%	58%	48%	39%	31%	24%	18%	13%	9%	6%	4%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
26.7°	49.8°	63.1°	99.7%	99.5%