

Light efficiency:

67 Lumen/Watt

Light quality:

CRI: 82.6

Color temperature:

3074 K

Output: 877 lm

Peak: 1072 cd

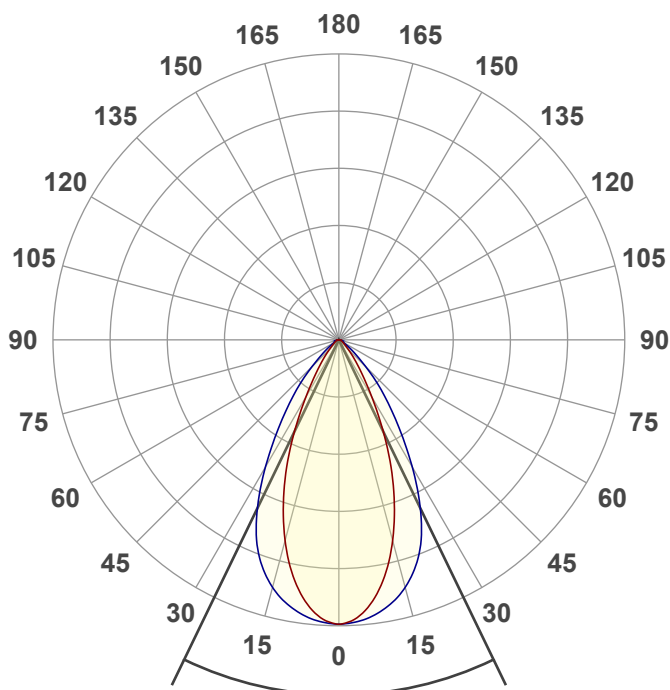
Power: 13.0 W

PF: 0.94



NU1-RA-SW-13LM-30K-80-30D-EA-NL-WH-WH

Date and time:  
8/20/2024 10:24:43 AM



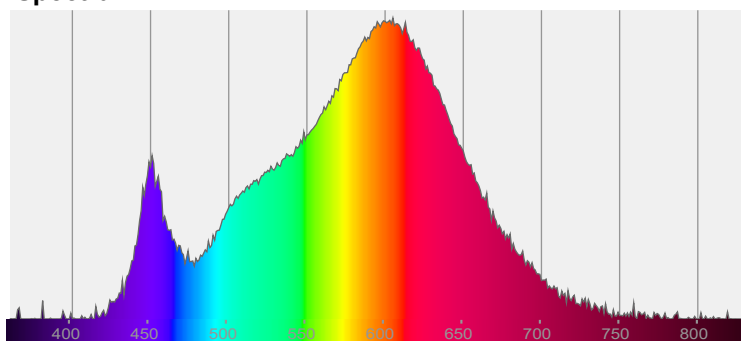
Beam angle

51.6°

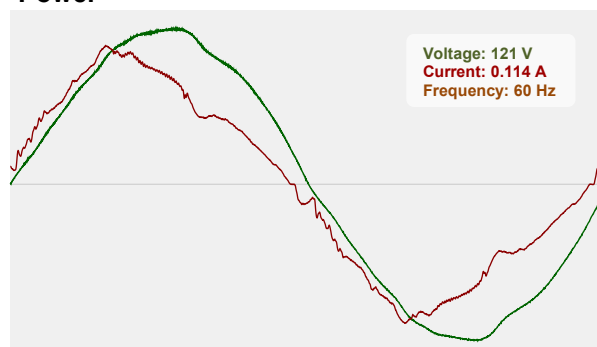


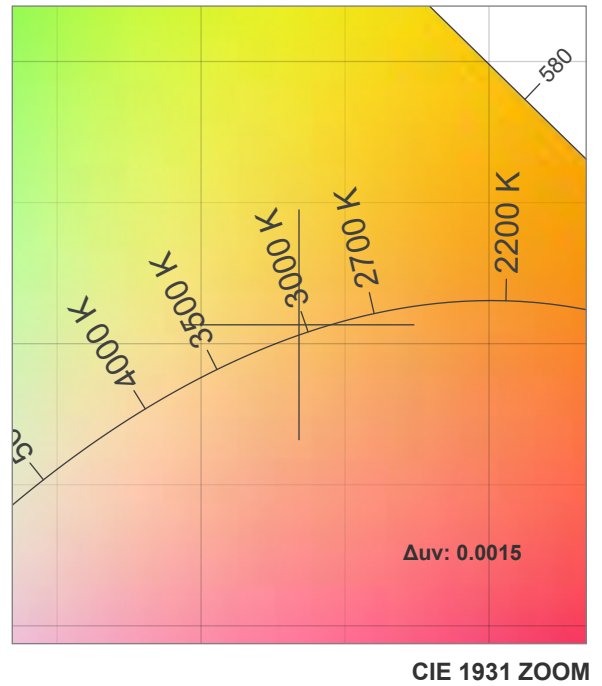
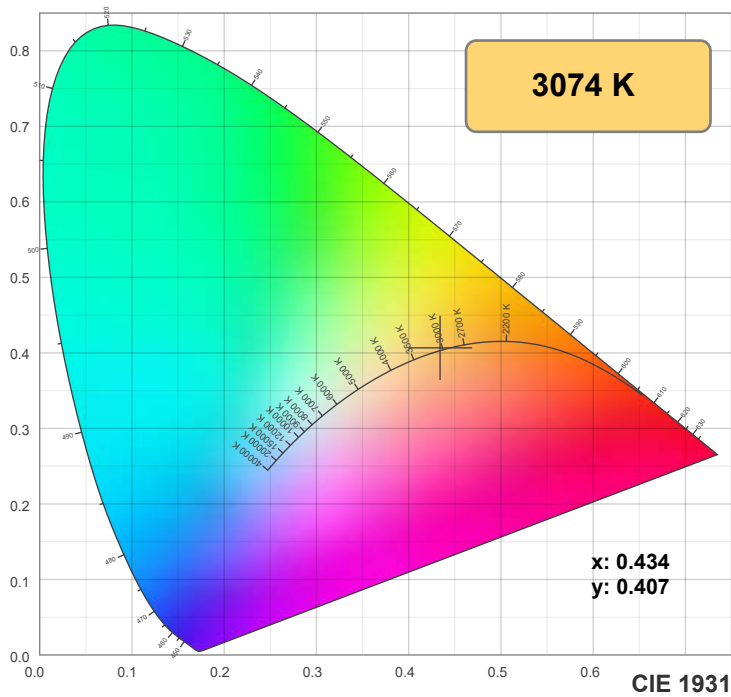
CIE 1931  
x: 0.434  
y: 0.407

Spectra

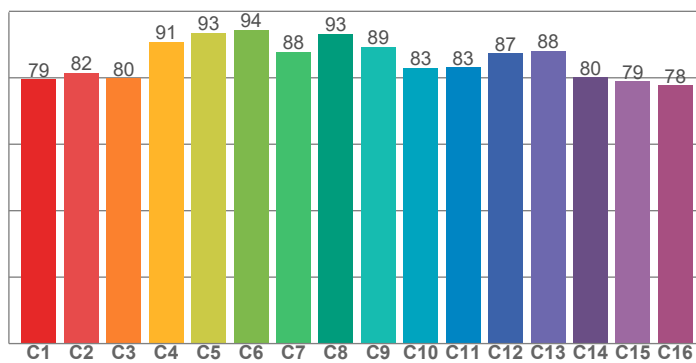


Power

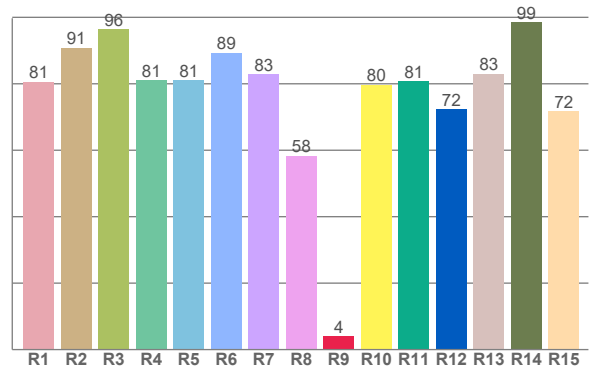




**TM30: 85.6**



**CRI: 82.6 (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
80.6	90.8	96.4	81.0	81.1	89.3	82.9	58.3	4.1	79.7	80.8	72.3	83.0	98.5	71.8

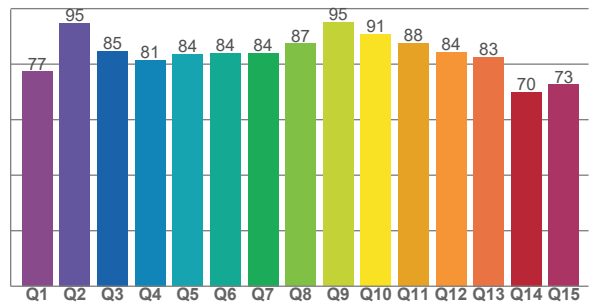
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.5	81.6	79.9	90.8	93.5	94.4	87.8	93.3	89.3	82.9	83.1	87.3	88.1	80.1	78.9	77.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.3	94.9	84.7	81.5	83.6	84.0	84.0	87.4	95.1	90.9	87.5	84.4	82.5	70.0	72.6

**CQS: 82.5**



## 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
3074 K	82.6	4.1	85.6	95.1	82.5	0.434	0.407	0.248	0.348	0.0015

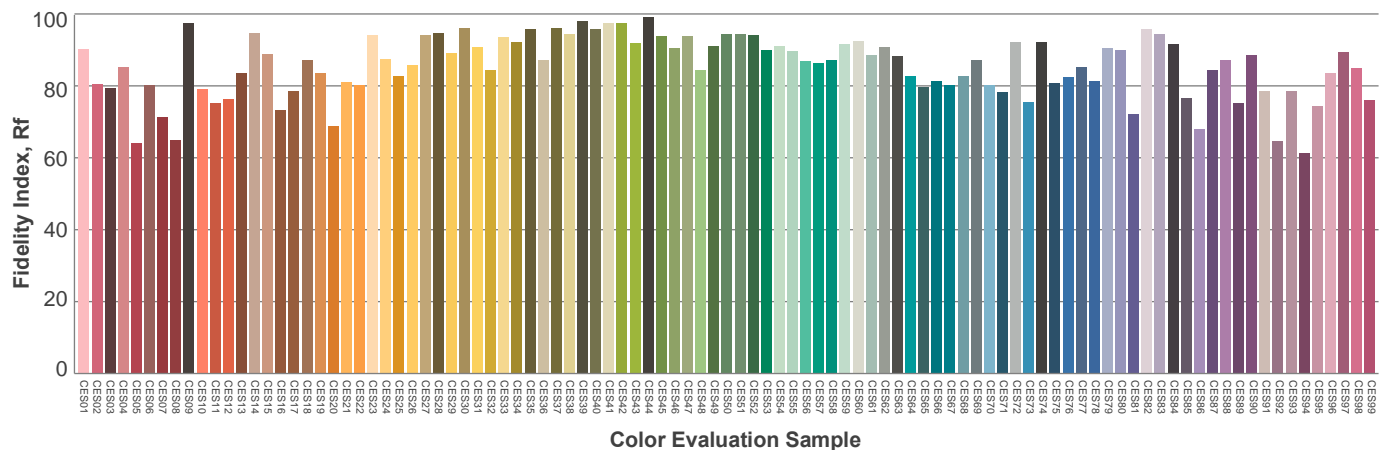
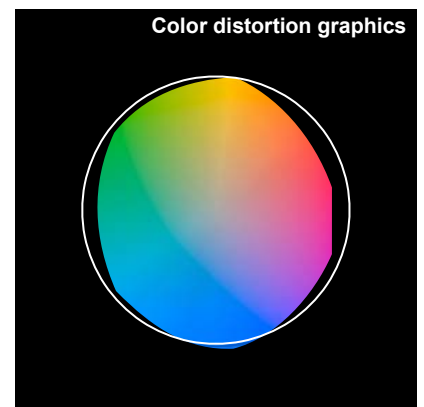
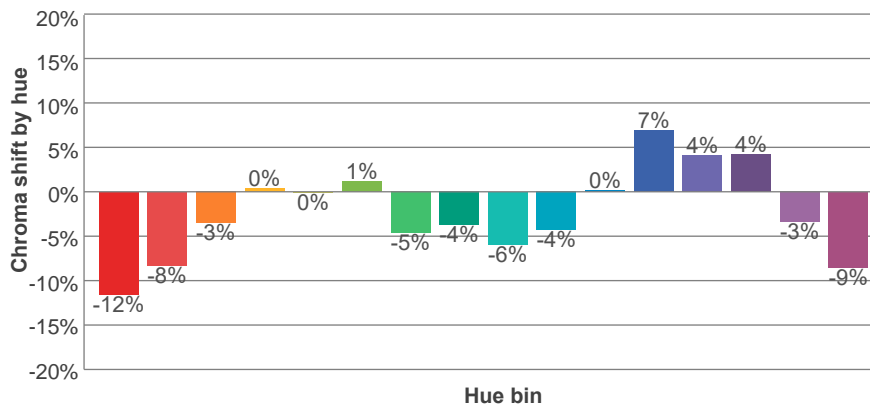
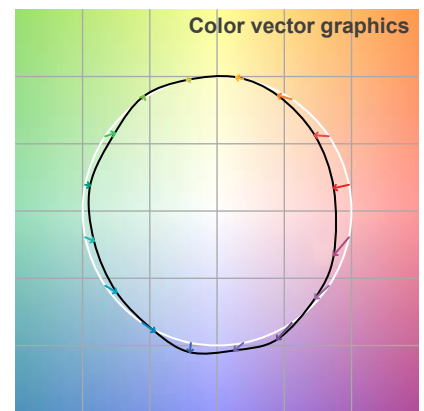
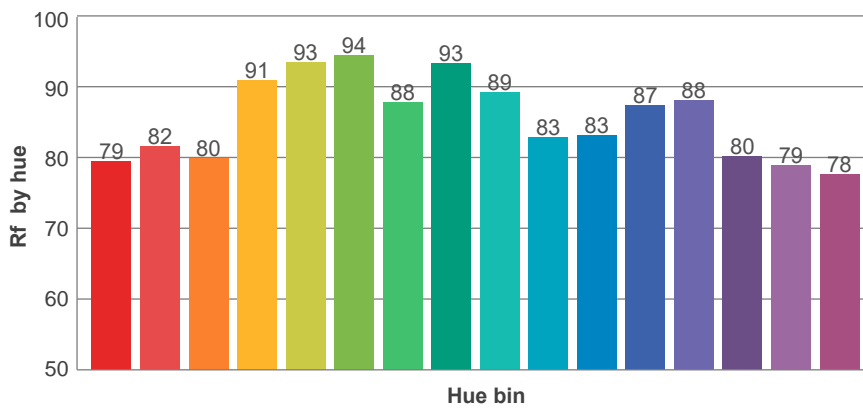
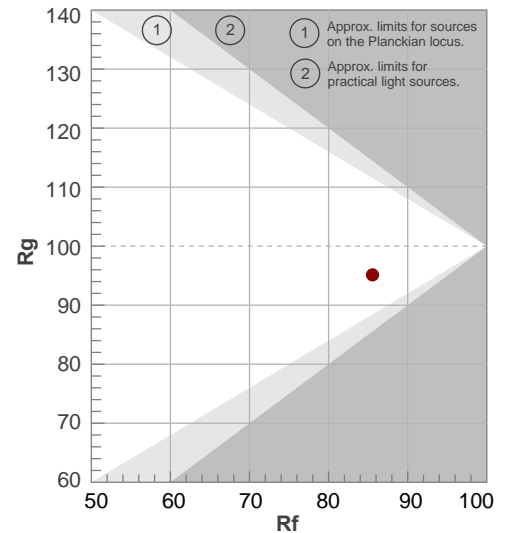
**Rf 85.6**

Fidelity index Rf

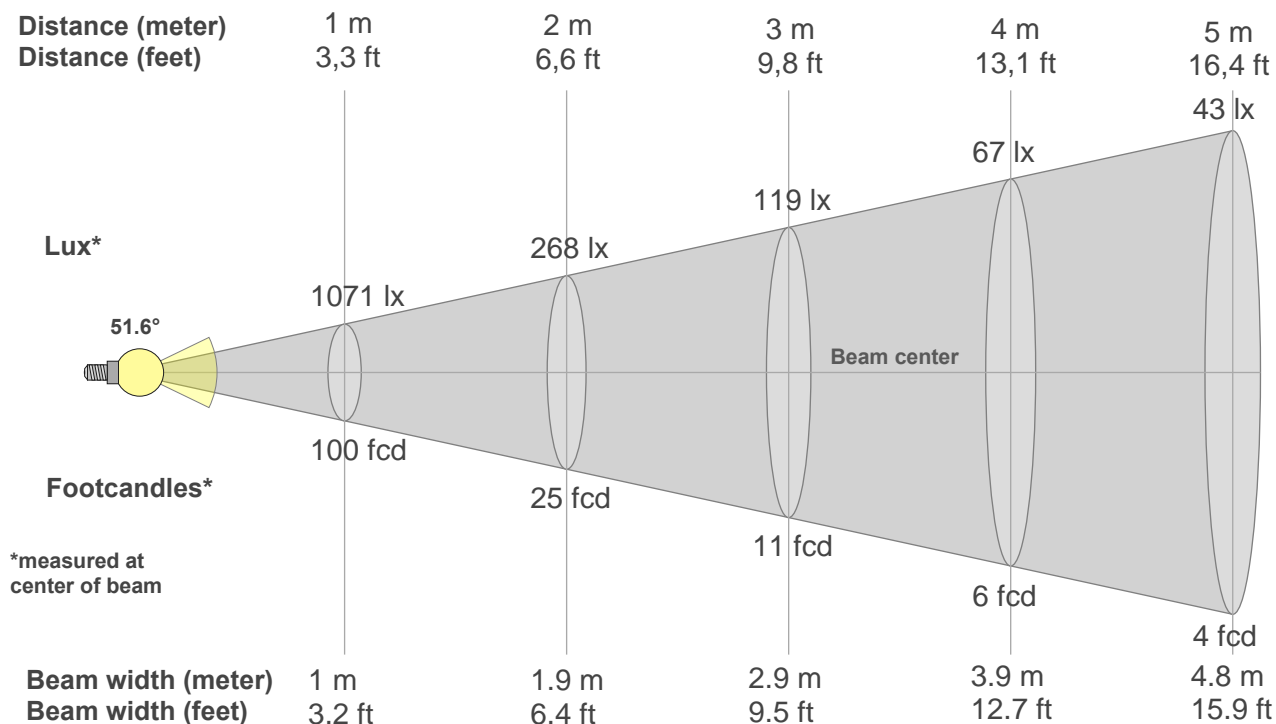
**Rg 95.1**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-12%	0%
2	82	-8%	7%
3	80	-3%	10%
4	91	0%	6%
5	93	0%	3%
6	94	1%	-2%
7	88	-5%	-6%
8	93	-4%	0%
9	89	-6%	4%
10	83	-4%	9%
11	83	0%	11%
12	87	7%	1%
13	88	4%	-7%
14	80	4%	-16%
15	79	-3%	-13%
16	78	-9%	-15%



Color Evaluation Sample



#### 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
1071lx	268lx	119lx	67lx	43lx	30lx	22lx	17lx	13lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx
99.5fcd	24.9fcd	11.1fcd	6.2fcd	4fcd	2.8fcd	2fcd	1.6fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd

#### 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°
1071	1064	1046	1018	980	933	878	816	749	678	605	530	454	379	310	250	199	160	129	104
100%	99%	98%	95%	92%	87%	82%	76%	70%	63%	56%	50%	42%	35%	29%	23%	19%	15%	12%	10%

#### 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°
1071	1070	1064	1055	1042	1025	1005	980	950	915	875	825	765	699	627	554	481	415	355	302
100%	100%	99%	98%	97%	96%	94%	91%	89%	85%	82%	77%	71%	65%	59%	52%	45%	39%	33%	28%

#### 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°
1071	1064	1046	1018	980	933	878	816	749	678	605	530	454	379	310	250	199	160	129	104
100%	99%	98%	95%	92%	87%	82%	76%	70%	63%	56%	50%	42%	35%	29%	23%	19%	15%	12%	10%

#### 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°
1071	1070	1064	1055	1042	1025	1005	980	950	915	875	825	765	699	627	554	481	415	355	302
100%	100%	99%	98%	97%	96%	94%	91%	89%	85%	82%	77%	71%	65%	59%	52%	45%	39%	33%	28%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51.6°	84.9°	110.6°	96.9%	90.7%