

Light efficiency:

**76 Lumen/Watt**

Light quality:

**CRI: 92.0**

Color temperature:

**2979 K**

**Output: 1069 lm**

**Peak: 8050 cd**

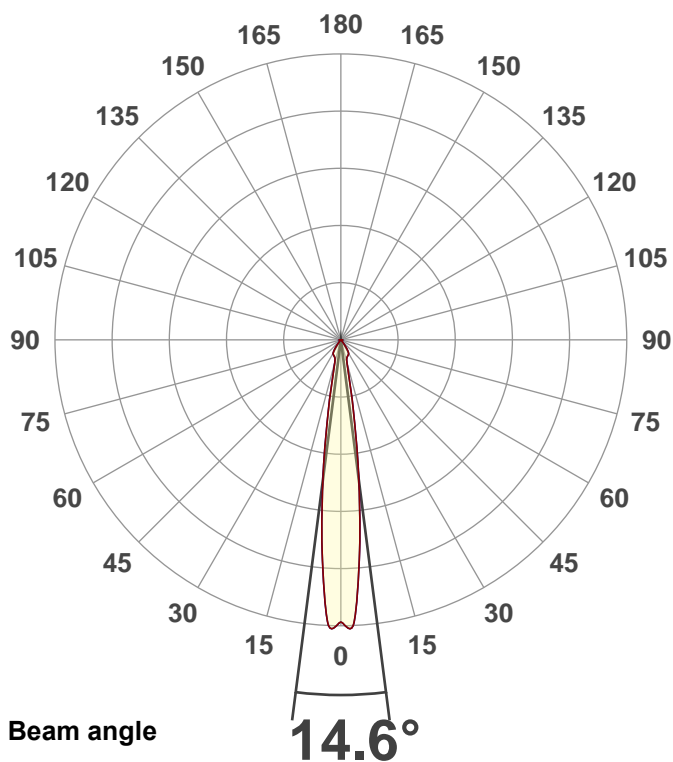
**Power: 14.1 W**

**PF: 0.96**



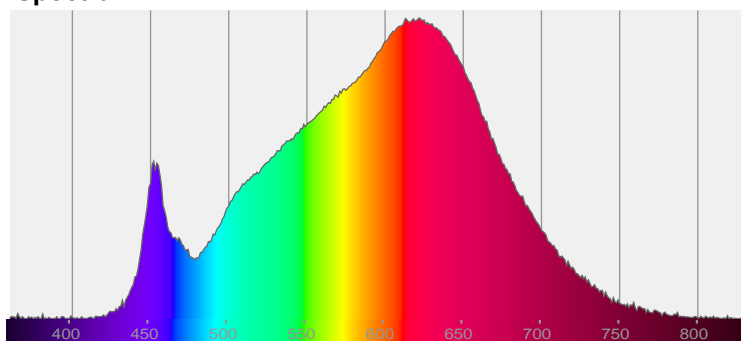
**NU4-RD-SW-15LM-30K-90-S10-120-DIM10-NC-WH-WH**

Date and time:  
**2/27/2021 12:02:57 PM**

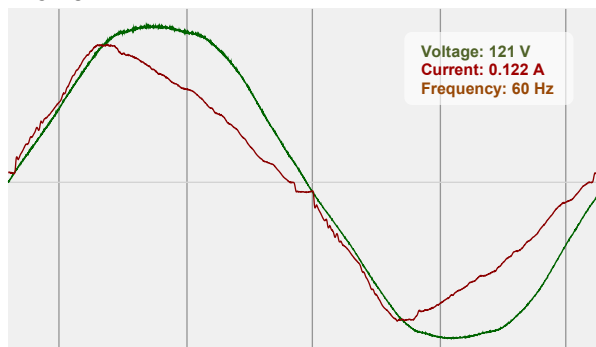


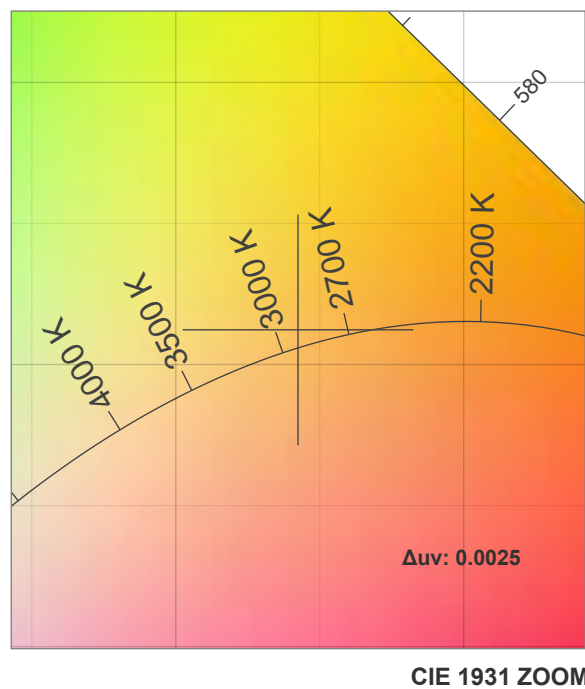
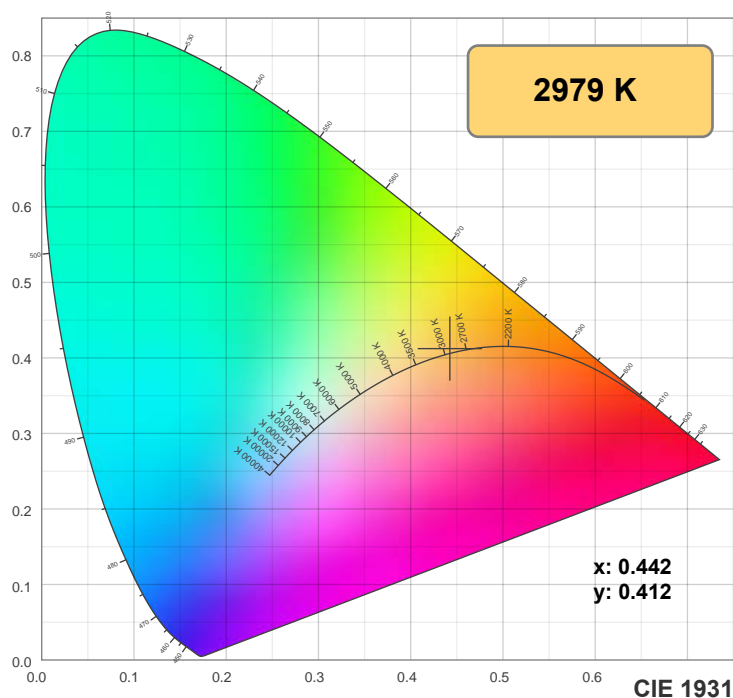
**CIE 1931**  
**x: 0.442**  
**y: 0.412**

**Spectra**

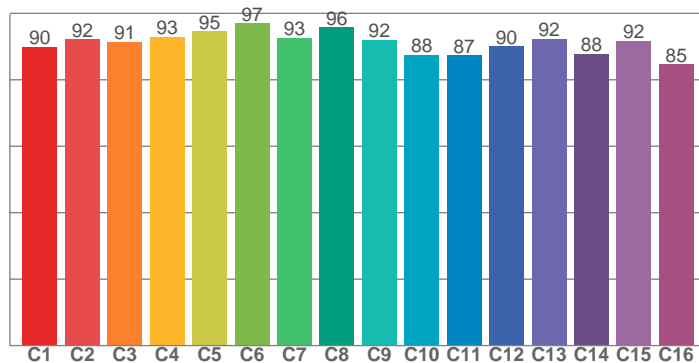


**Power**

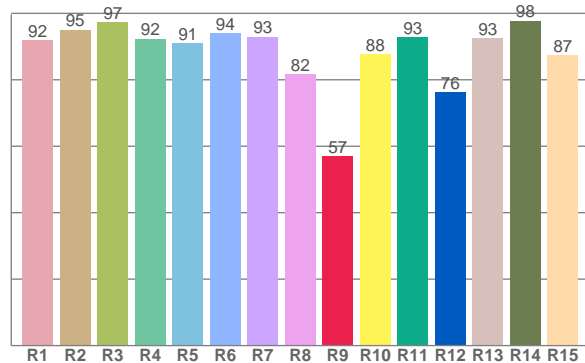




**TM30: 91.1**



**CRI: 92.0 (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
91.8	95.1	97.3	92.3	91.0	94.0	93.0	81.6	56.9	87.6	92.8	76.3	92.5	97.8	87.3

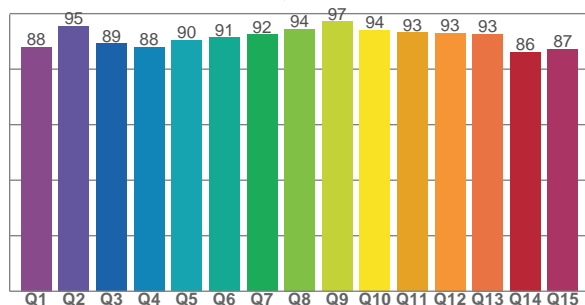
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.9	92.2	91.5	93.0	94.6	97.0	92.6	95.8	91.9	87.5	87.4	90.1	92.3	87.9	91.7	84.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88.0	95.5	89.2	88.0	90.4	91.4	92.4	94.5	97.2	94.1	93.1	93.1	92.7	86.2	87.1

**CQS: 90.8**



## 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
2979 K	92.0	56.9	91.1	97.3	90.8	0.442	0.412	0.251	0.350	0.0025

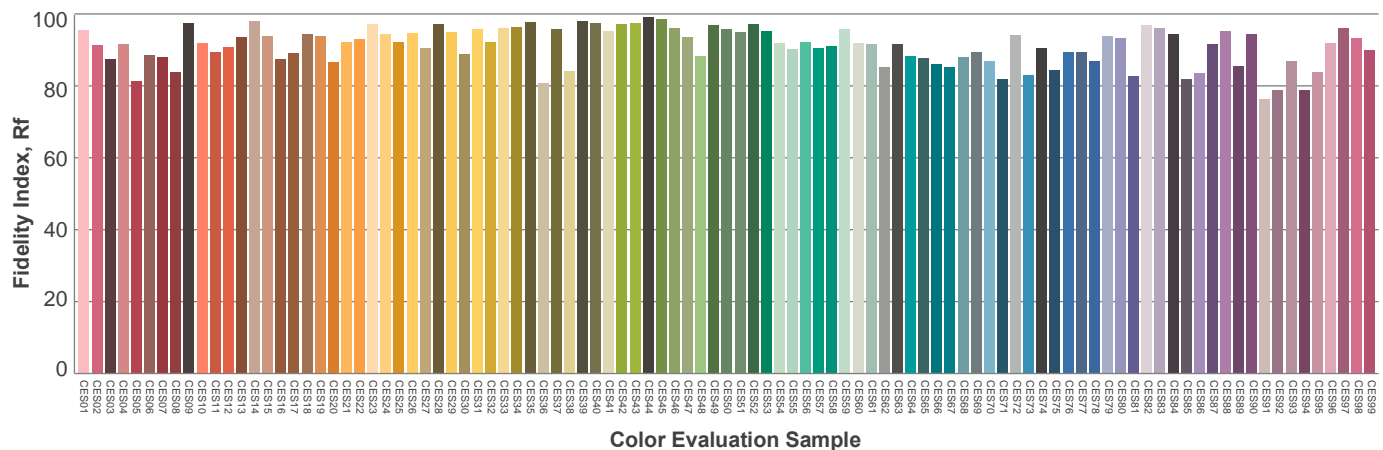
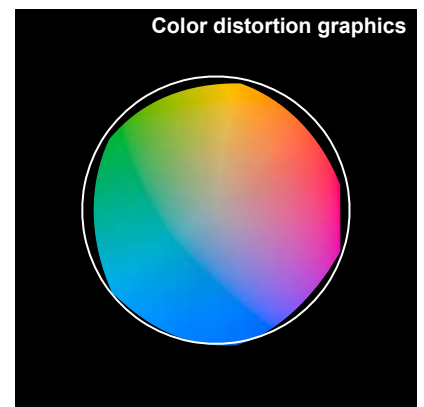
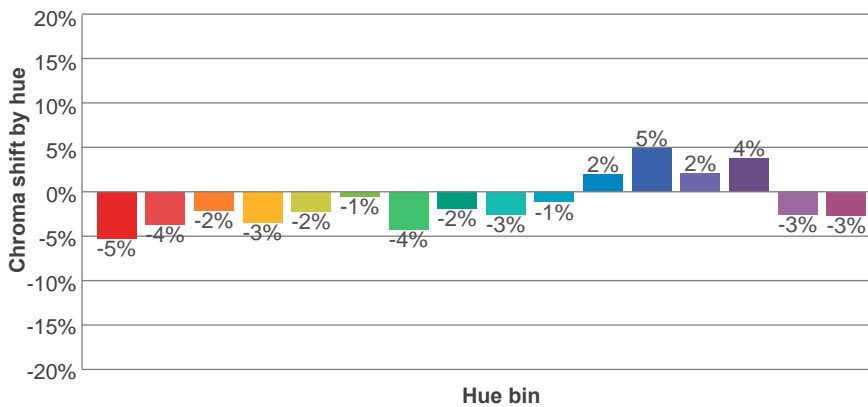
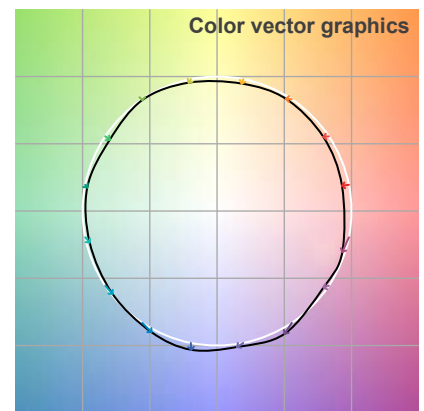
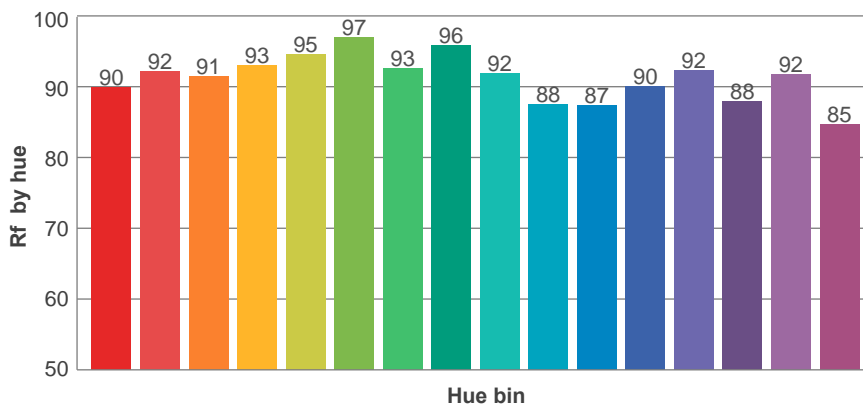
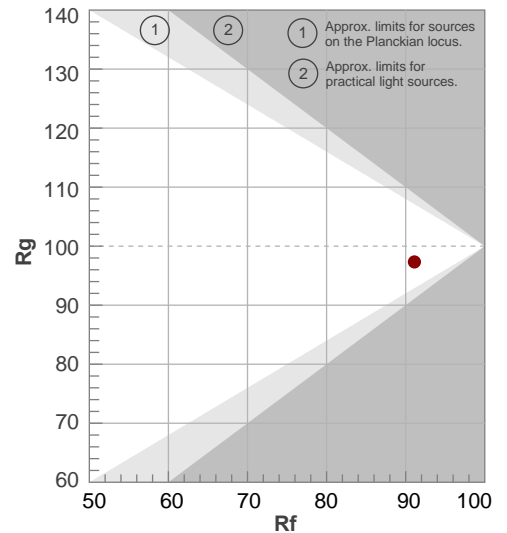
**Rf 91.1**

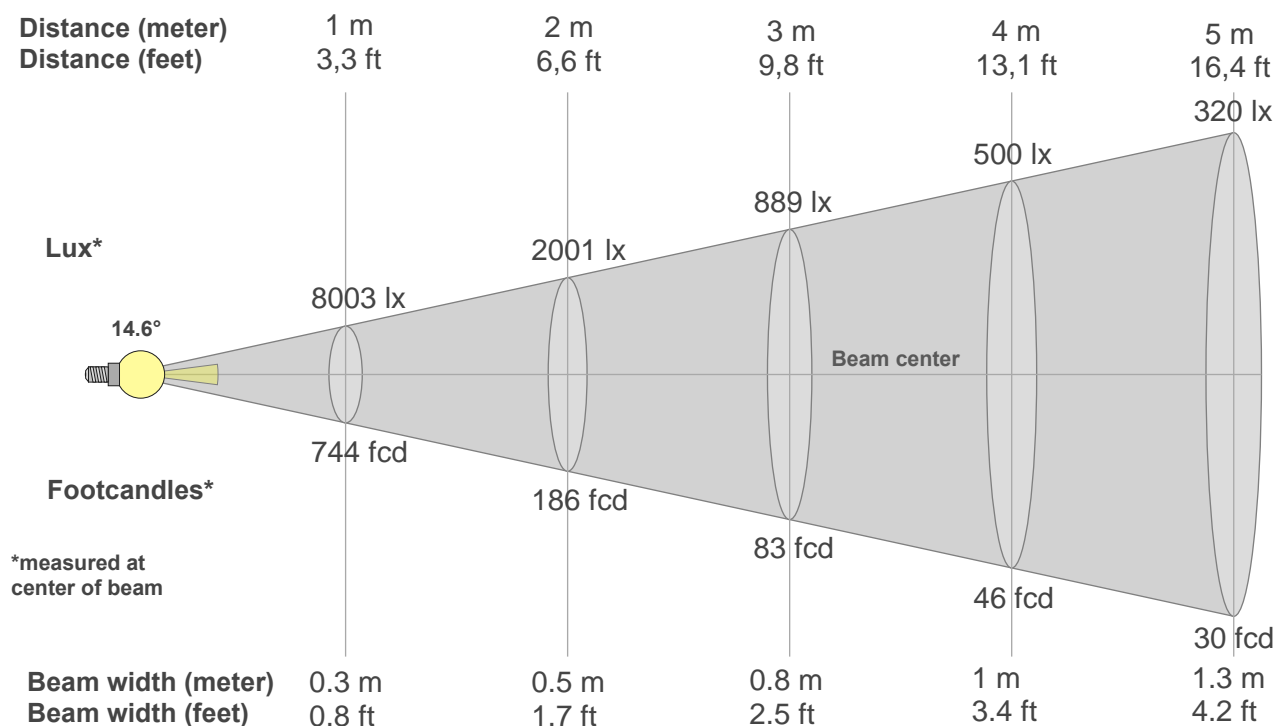
Fidelity index Rf

**Rg 97.3**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	0%
2	92	-4%	2%
3	91	-2%	4%
4	93	-3%	0%
5	95	-2%	2%
6	97	-1%	0%
7	93	-4%	0%
8	96	-2%	2%
9	92	-3%	4%
10	88	-1%	8%
11	87	2%	9%
12	90	5%	1%
13	92	2%	-5%
14	88	4%	-9%
15	92	-3%	-3%
16	85	-3%	-12%





**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
8003lx	2001lx	889lx	500lx	320lx	222lx	163lx	125lx	99lx	80lx	66lx	56lx	47lx	41lx	36lx	31lx	28lx	25lx	22lx	20lx
743.5fc	185.9fc	82.6fc	46.5fc	29.7fc	20.7fc	15.2fc	11.6fc	9.2fc	7.4fc	6.1fc	5.2fc	4.4fc	3.8fc	3.3fc	2.9fc	2.6fc	2.3fc	2.1fc	1.9fc

**Intensities in 0° c-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8003	8020	8039	7715	6889	6063	5180	4293	3485	2772	2059	1646	1241	964	813	664	621	578	550	535
100%	100%	100%	96%	86%	76%	65%	54%	44%	35%	26%	21%	16%	12%	10%	8%	8%	7%	7%	7%

**Intensities in 90° c-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8003	8020	8039	7715	6889	6063	5180	4293	3485	2772	2059	1646	1241	964	813	664	621	578	550	535
100%	100%	100%	96%	86%	76%	65%	54%	44%	35%	26%	21%	16%	12%	10%	8%	8%	7%	7%	7%

**Intensities in 180° c-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8003	8020	8039	7715	6889	6063	5180	4293	3485	2772	2059	1646	1241	964	813	664	621	578	550	535
100%	100%	100%	96%	86%	76%	65%	54%	44%	35%	26%	21%	16%	12%	10%	8%	8%	7%	7%	7%

**Intensities in 270° c-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
8003	8020	8039	7715	6889	6063	5180	4293	3485	2772	2059	1646	1241	964	813	664	621	578	550	535
100%	100%	100%	96%	86%	76%	65%	54%	44%	35%	26%	21%	16%	12%	10%	8%	8%	7%	7%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
{B_ANG}°	28.1°	71.6°	99.3%	97.5%