

Light efficiency:

82 Lumen/Watt

Light quality:

CRI: 94.2

Color temperature:

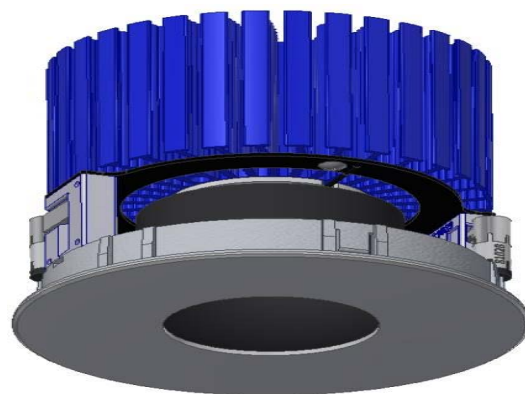
2933 K

Output: 788 lm

Peak: 6968 cd

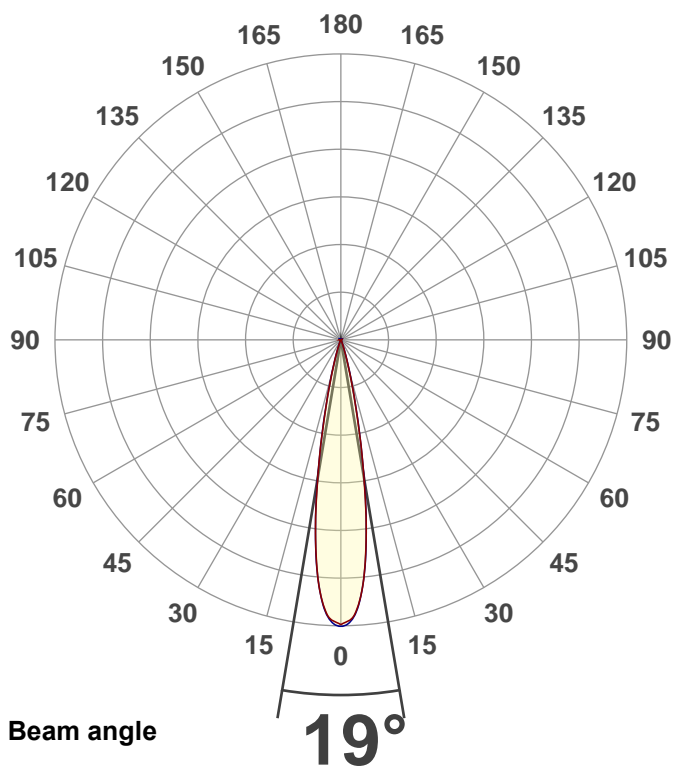
Power: 9.6 W

PF: 0.95



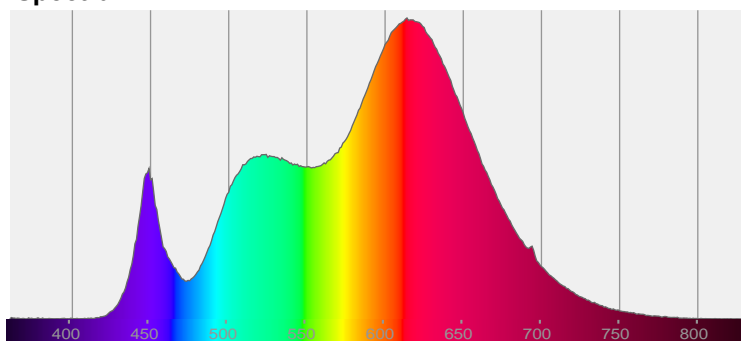
**NU4-RDPH-10LM-30K-90-O20-120-DIM10-NC-WH**

Date and time:  
1/14/2020 9:42:23 AM

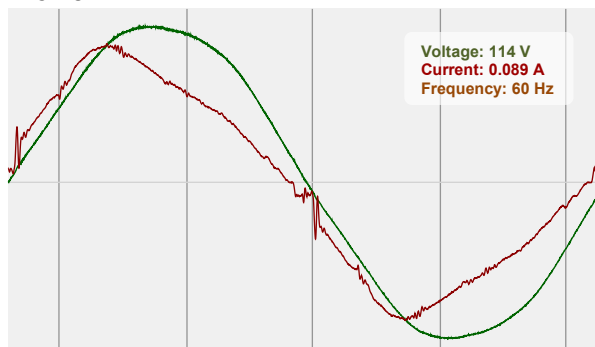


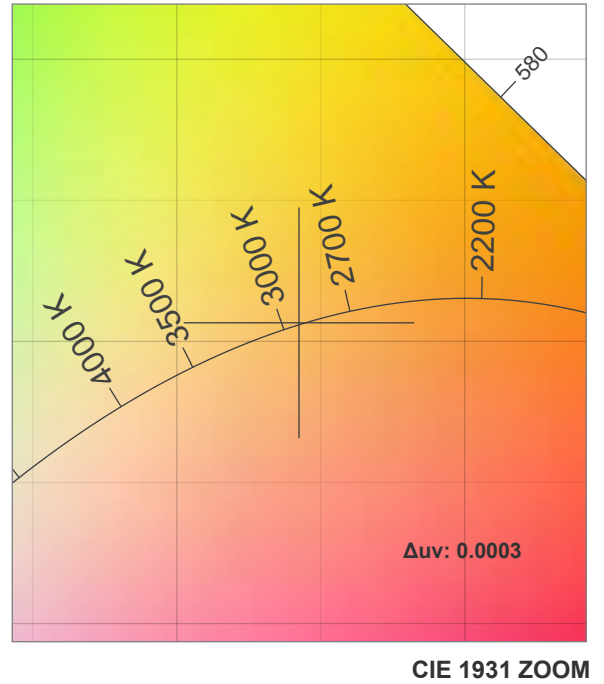
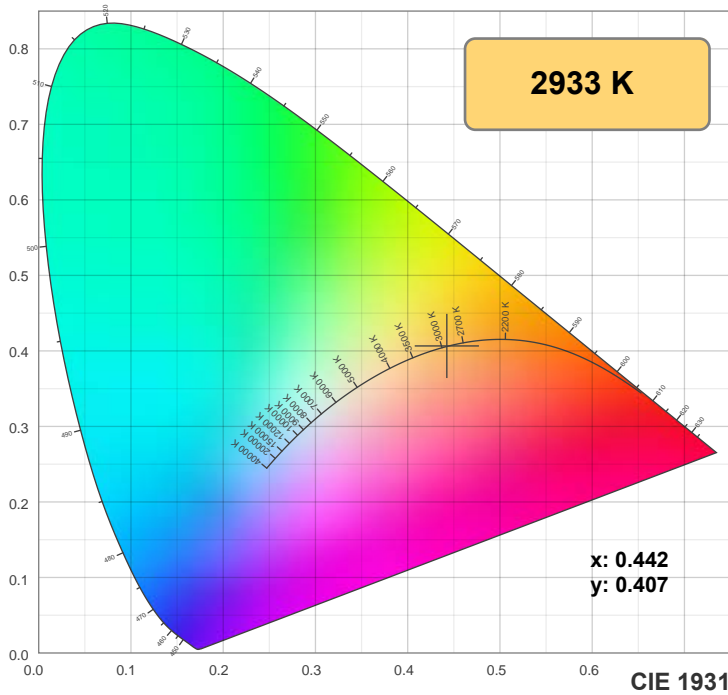
CIE 1931  
x: 0.442  
y: 0.407

Spectra

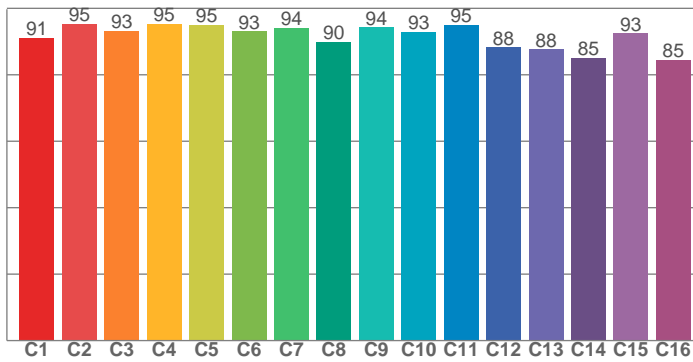


Power

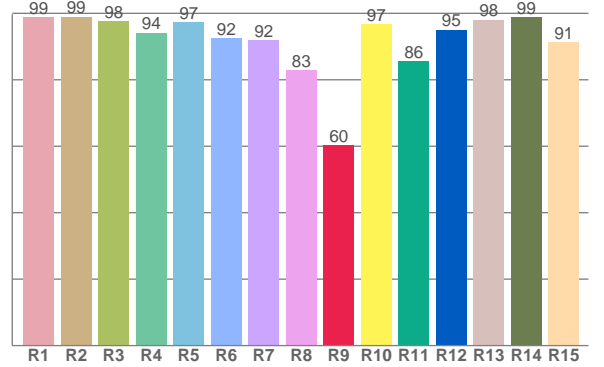




TM30: 92.1



CRI: 94.2 (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
98.8	99.0	97.7	94.1	97.2	92.4	91.9	82.8	60.3	96.8	85.6	95.1	98.1	98.7	91.4

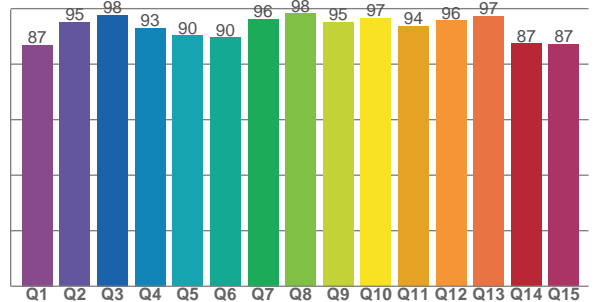
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.1	95.3	93.3	95.3	95.0	93.1	94.1	90.0	94.2	92.9	95.1	88.2	87.6	85.1	92.5	84.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.0	95.1	97.6	93.0	90.3	89.5	96.3	98.2	95.1	96.6	93.8	95.7	97.4	87.4	87.1

CQS: 92.0



## 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	$\Delta uv$
2933 K	94.2	60.3	92.1	101.4	92.0	0.442	0.407	0.253	0.349	0.0003

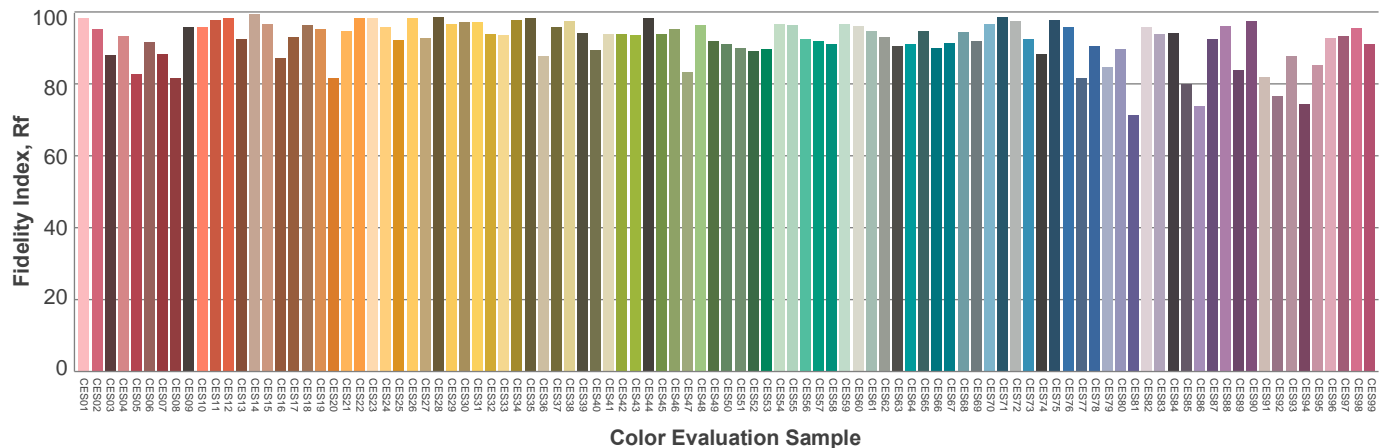
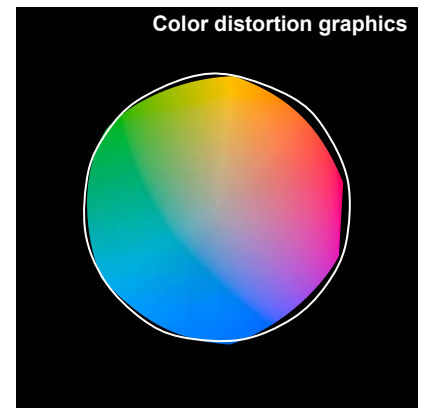
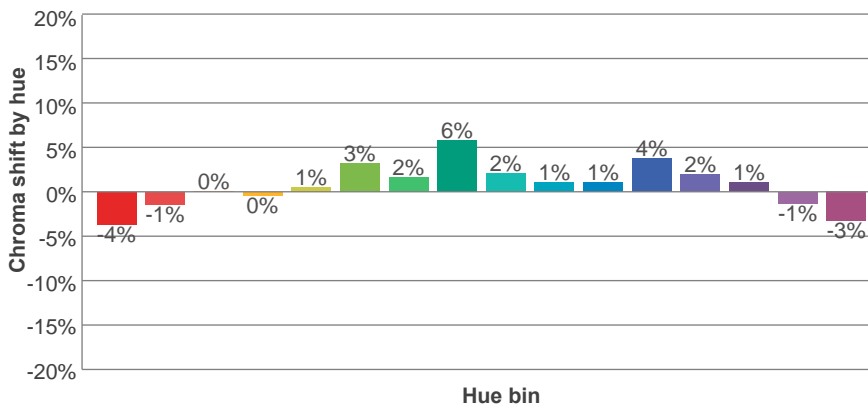
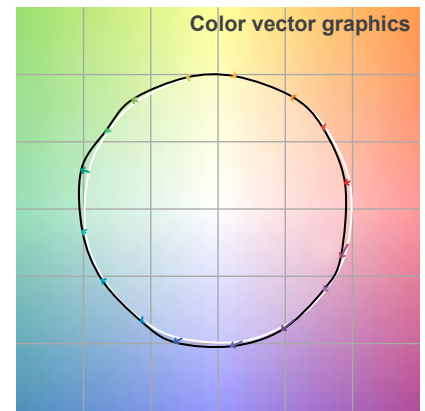
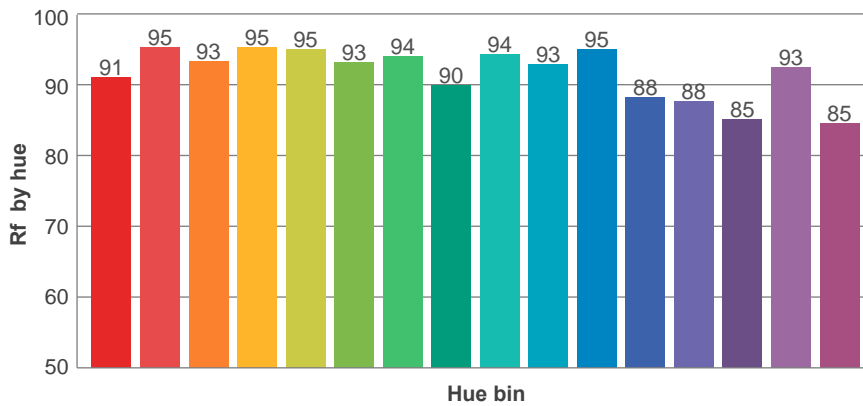
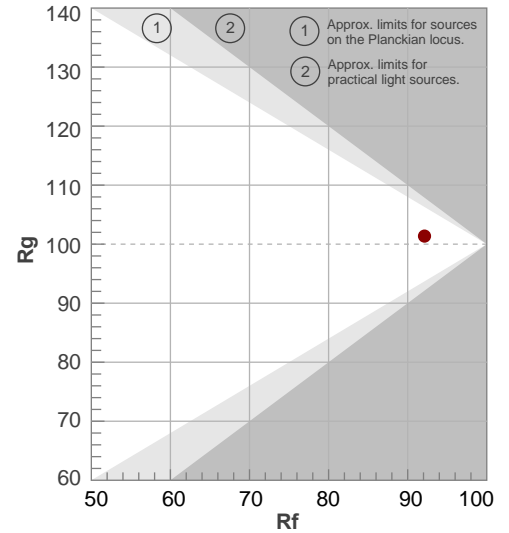
**Rf 92.1**

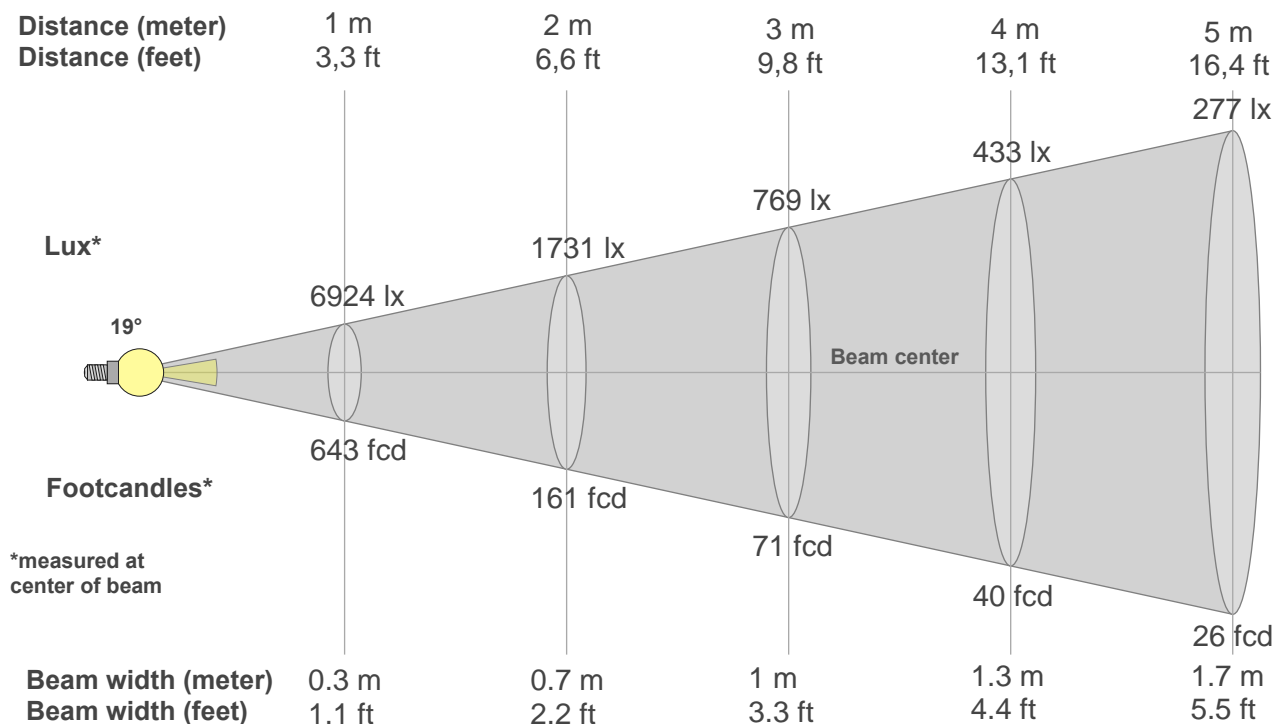
Fidelity index Rf

**Rg 101.4**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	-1%
2	95	-1%	1%
3	93	0%	1%
4	95	0%	-1%
5	95	1%	2%
6	93	3%	2%
7	94	2%	-1%
8	90	6%	0%
9	94	2%	-2%
10	93	1%	-3%
11	95	1%	-1%
12	88	4%	-5%
13	88	2%	-9%
14	85	1%	-11%
15	93	-1%	-4%
16	85	-3%	-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
6924lx	1731lx	769lx	433lx	277lx	192lx	141lx	108lx	85lx	69lx	57lx	48lx	41lx	35lx	31lx	27lx	24lx	21lx	19lx	17lx
643.3fc	160.8fc	71.5fc	40.2fc	25.7fc	17.9fc	13.1fc	10.1fc	7.9fc	6.4fc	5.3fc	4.5fc	3.8fc	3.3fc	2.9fc	2.5fc	2.2fc	2fc	1.8fc	1.6fc

**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°
6924	6904	6818	6703	6380	6058	5582	5027	4451	3795	3138	2560	2008	1520	1184	849	644	467	326	248
100%	100%	98%	97%	92%	87%	81%	73%	64%	55%	45%	37%	29%	22%	17%	12%	9%	7%	5%	4%

**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°
6924	6968	6859	6670	6452	6026	5599	5049	4436	3816	3172	2528	2019	1556	1154	897	641	484	346	238
100%	101%	99%	96%	93%	87%	81%	73%	64%	55%	46%	37%	29%	22%	17%	13%	9%	7%	5%	3%

**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°
6924	6904	6818	6703	6380	6058	5582	5027	4451	3795	3138	2560	2008	1520	1184	849	644	467	326	248
100%	100%	98%	97%	92%	87%	81%	73%	64%	55%	45%	37%	29%	22%	17%	12%	9%	7%	5%	4%

**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°
6924	6968	6859	6670	6452	6026	5599	5049	4436	3816	3172	2528	2019	1556	1154	897	641	484	346	238
100%	101%	99%	96%	93%	87%	81%	73%	64%	55%	46%	37%	29%	22%	17%	13%	9%	7%	5%	3%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120° cone	Intensity ratio in 90° cone
{B_ANG}°	31.5°	40.1°	99.5%	99.5%