

Light efficiency:

40 Lumen/Watt

Light quality:

CRI: 83.6

Color temperature:

2876 K

Output: 1462 lm

Peak: 7301 cd

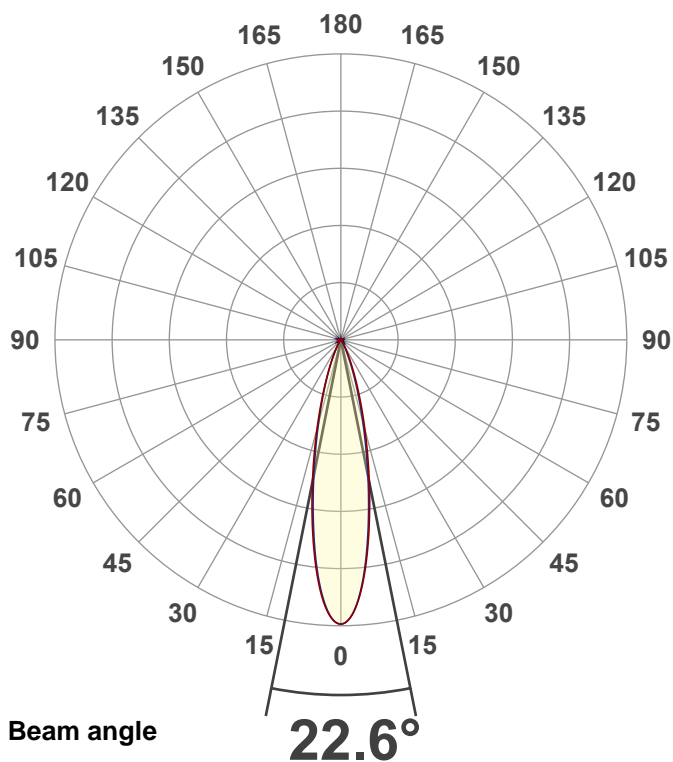
Power: 36.3 W

PF: 0.98



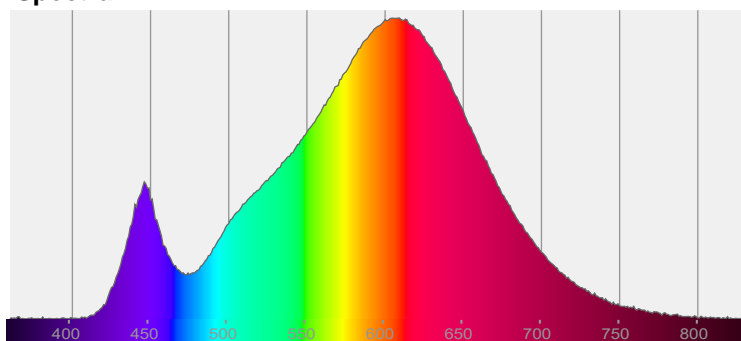
NU3-RA-XTM09-20LM-30K-83-15D-NA-HET-WH-WH

Date and time:  
6/3/2022 10:21:24 AM

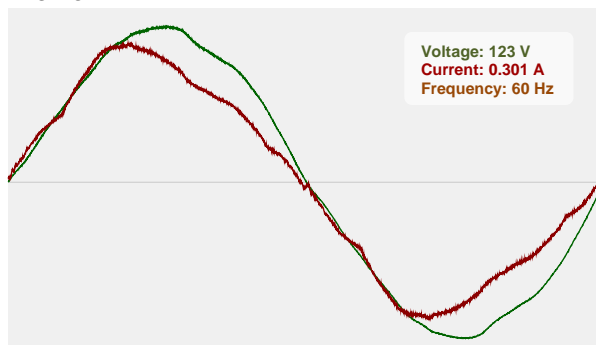


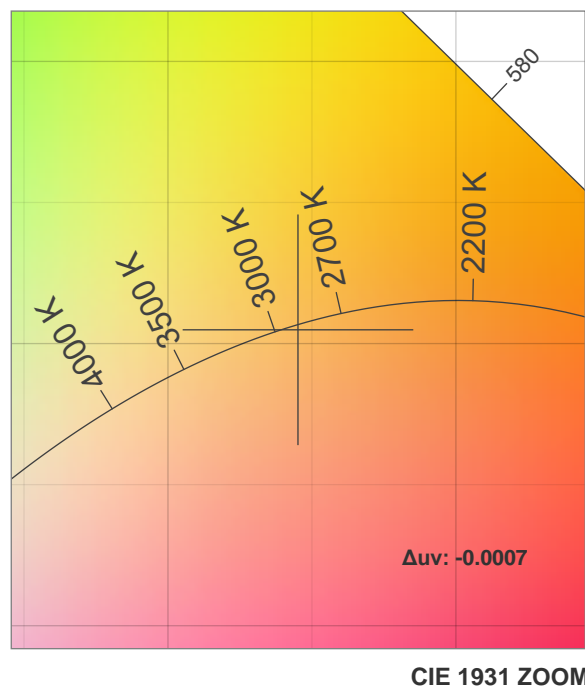
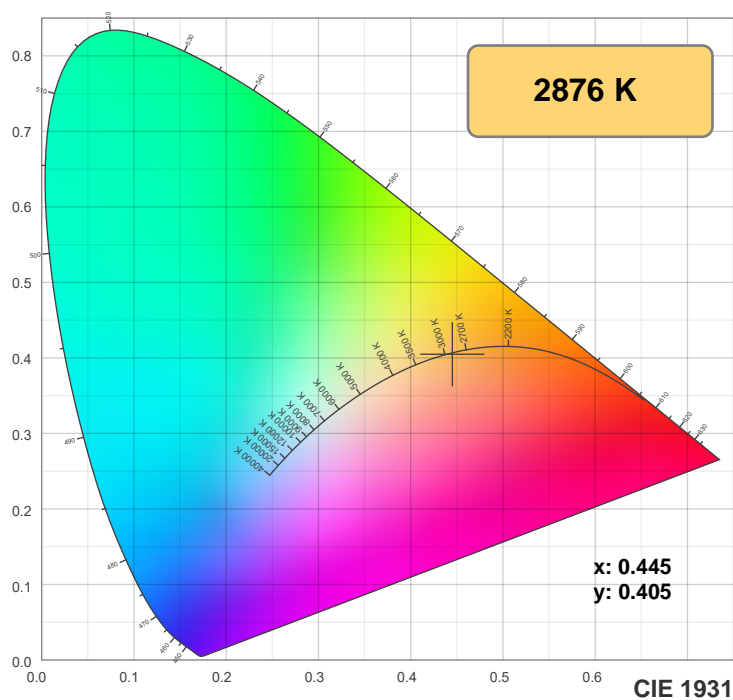
CIE 1931  
x: 0.445  
y: 0.405

Spectra

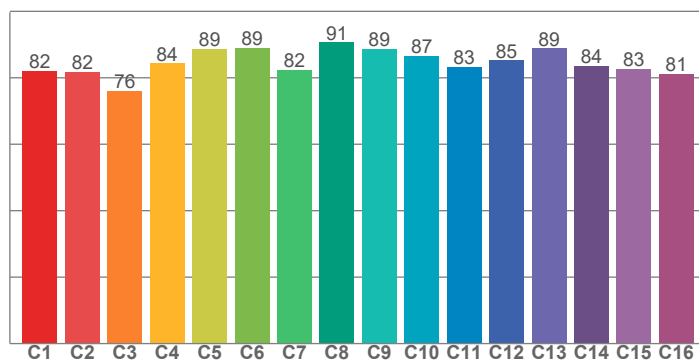


Power

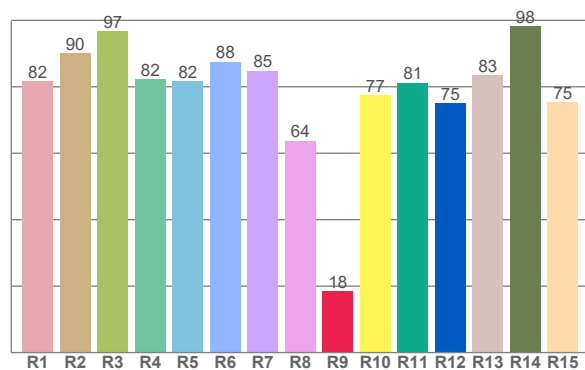




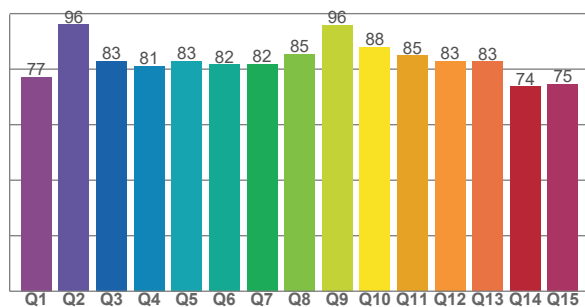
TM30: 84.6



CRI: 83.6 (R1-R8)



CQS: 82.3



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
81.7	90.1	96.8	82.2	81.6	87.6	84.8	63.8	18.4	77.4	81.2	75.0	83.4	98.2	75.4

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
82.0	81.8	76.1	84.4	88.7	89.1	82.5	90.7	88.7	86.6	83.3	85.3	88.8	83.5	82.6	81.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.2	96.1	82.9	81.2	82.9	81.7	81.9	85.4	95.8	87.9	84.9	83.0	82.8	73.8	74.7

## 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
2876 K	83.6	18.4	84.6	98.7	82.3	0.445	0.405	0.256	0.349	-0.0007

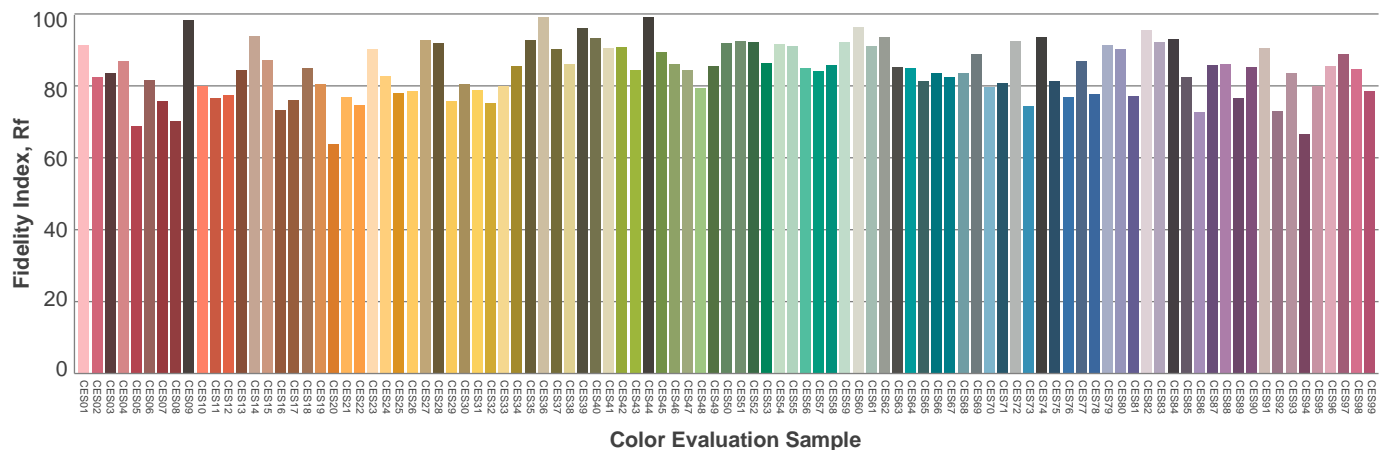
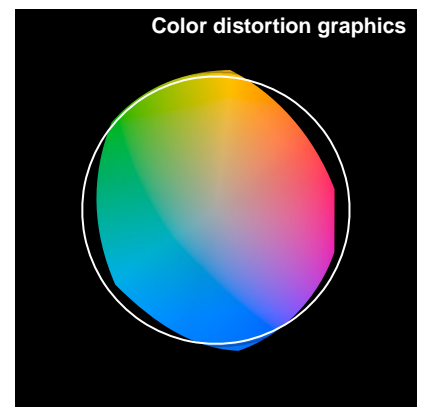
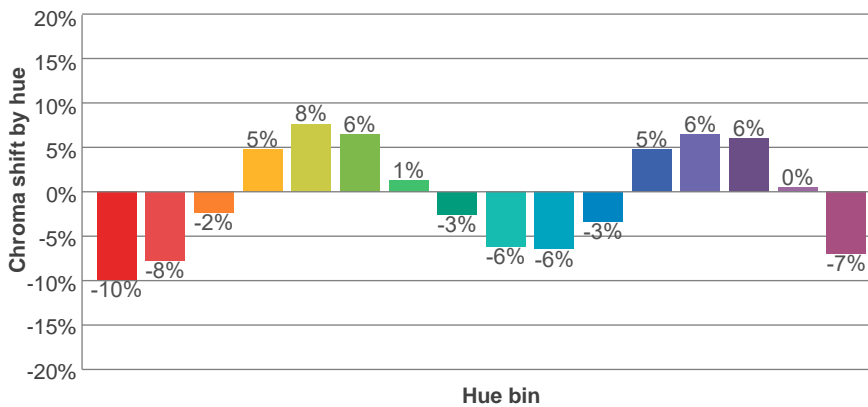
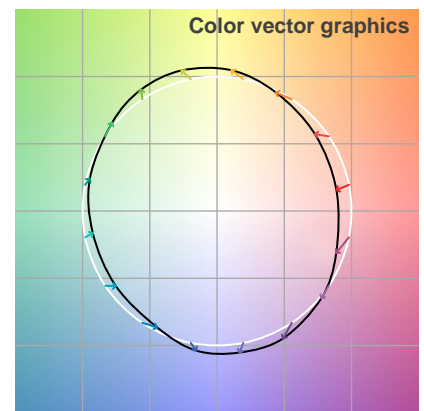
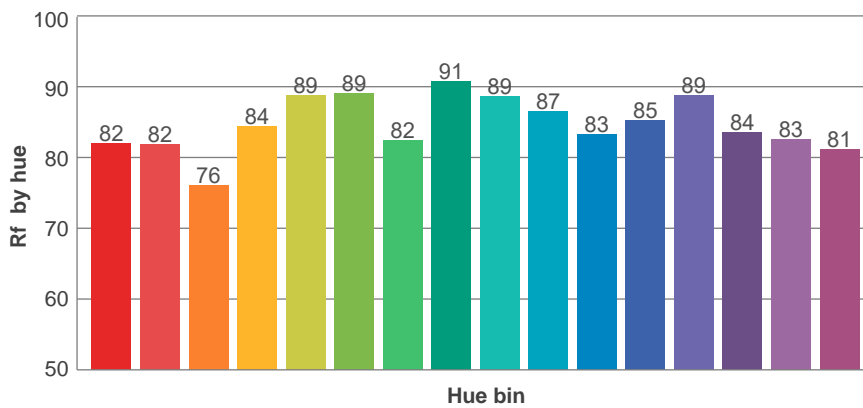
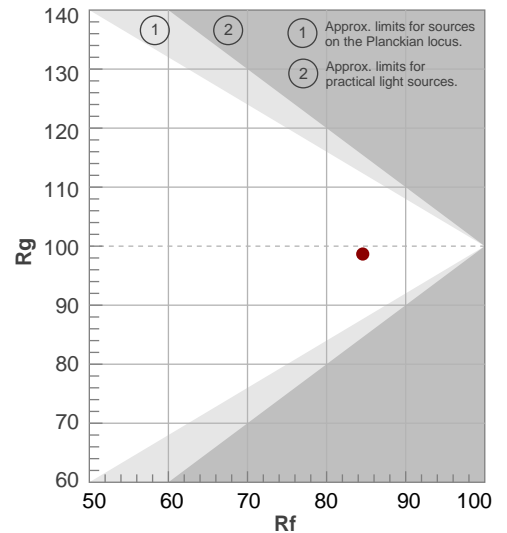
**Rf 84.6**

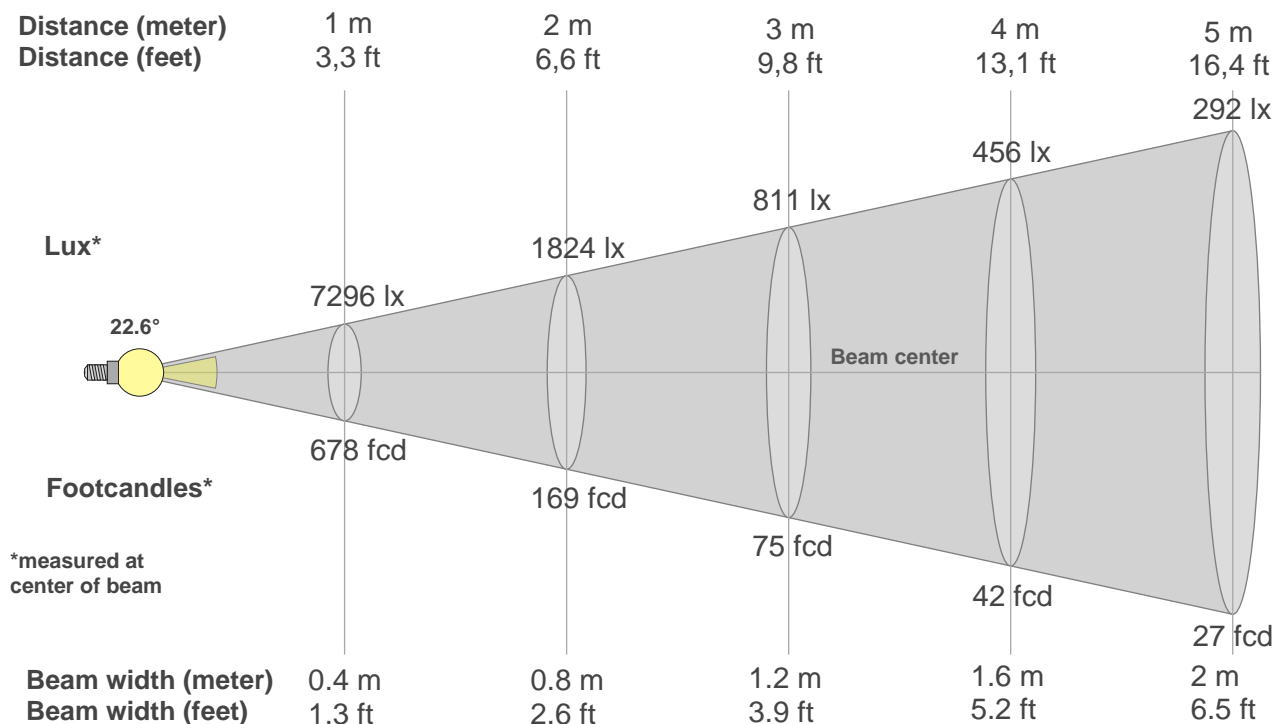
Fidelity index Rf

**Rg 98.7**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	13%
4	84	5%	10%
5	89	8%	6%
6	89	6%	-3%
7	82	1%	-11%
8	91	-3%	-5%
9	89	-6%	-2%
10	87	-6%	4%
11	83	-3%	11%
12	85	5%	5%
13	89	6%	-4%
14	84	6%	-12%
15	83	0%	-11%
16	81	-7%	-13%





#### 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
7296lx	1824lx	811lx	456lx	292lx	203lx	149lx	114lx	90lx	73lx	60lx	51lx	43lx	37lx	32lx	28lx	25lx	23lx	20lx	18lx
677.8fcd	169.4fcd	75.3fcd	42.4fcd	27.1fcd	18.8fcd	13.8fcd	10.6fcd	8.4fcd	6.8fcd	5.6fcd	4.7fcd	4fcd	3.5fcd	3fcd	2.6fcd	2.3fcd	2.1fcd	1.9fcd	1.7fcd

#### 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°
7296	7125	6654	5949	5116	4264	3450	2719	2092	1576	1162	839	593	412	281	191	130	92	65	49
100%	98%	91%	82%	70%	58%	47%	37%	29%	22%	16%	12%	8%	6%	4%	3%	2%	1%	1%	1%

#### 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°
7296	7123	6626	5884	5001	4100	3252	2508	1882	1376	977	675	456	301	196	129	86	59	42	30
100%	98%	91%	81%	69%	56%	45%	34%	26%	19%	13%	9%	6%	4%	3%	2%	1%	1%	1%	0%

#### 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°
7296	7137	6679	5976	5138	4271	3445	2705	2065	1540	1120	797	555	380	258	173	116	80	57	42
100%	98%	92%	82%	70%	59%	47%	37%	28%	21%	15%	11%	8%	5%	4%	2%	2%	1%	1%	1%

#### 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°
7296	7129	6632	5889	5000	4099	3261	2532	1923	1441	1061	766	538	372	252	171	117	82	59	45
100%	98%	91%	81%	69%	56%	45%	35%	26%	20%	15%	10%	7%	5%	3%	2%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.6°	44.7°	59.1°	99.6%	98.8%