

Light efficiency:

44 Lumen/Watt

Light quality:

CRI: 83.6

Color temperature:

2876 K

Output: 1578 lm

Peak: 4468 cd

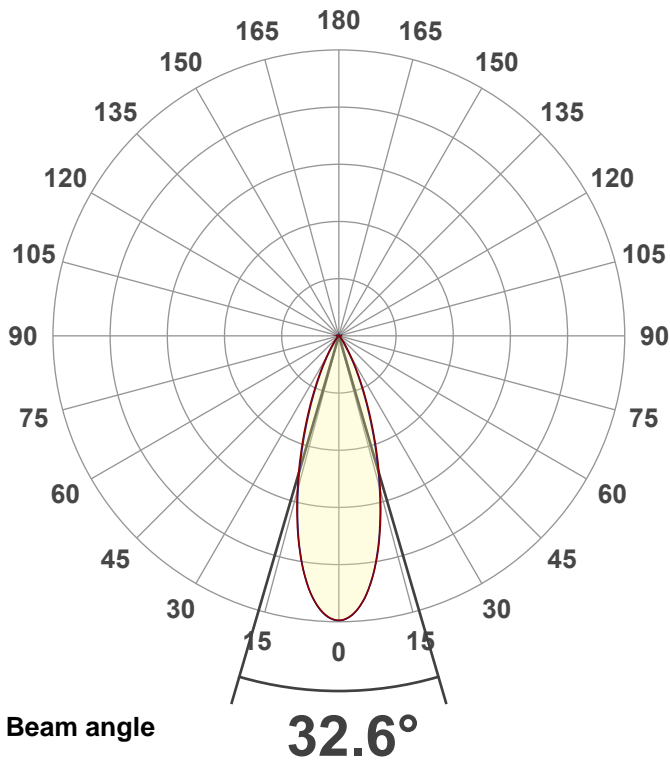
Power: 36.2 W

PF: 0.98



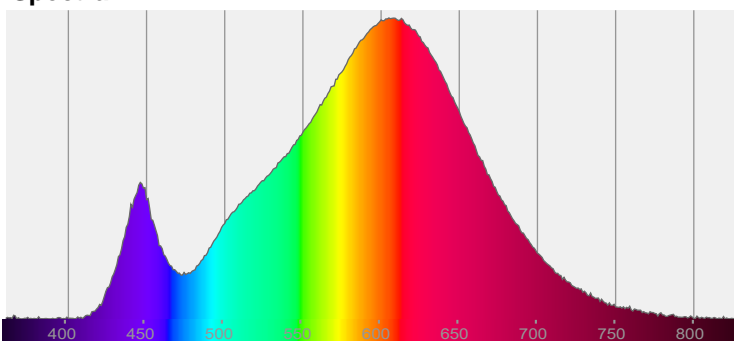
NU3-RA-XTM09-20LM-30K-83-35D-NA-  
HET-WH-WH

Date and time:  
6/3/2022 10:51:54 AM

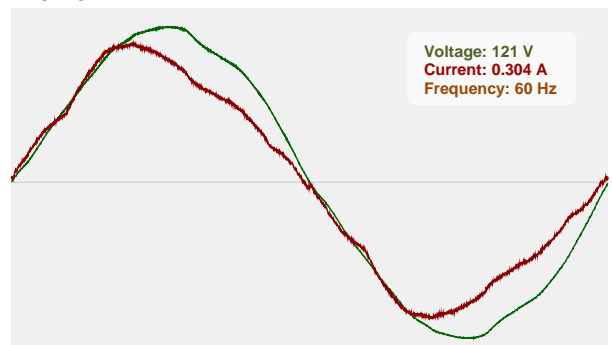


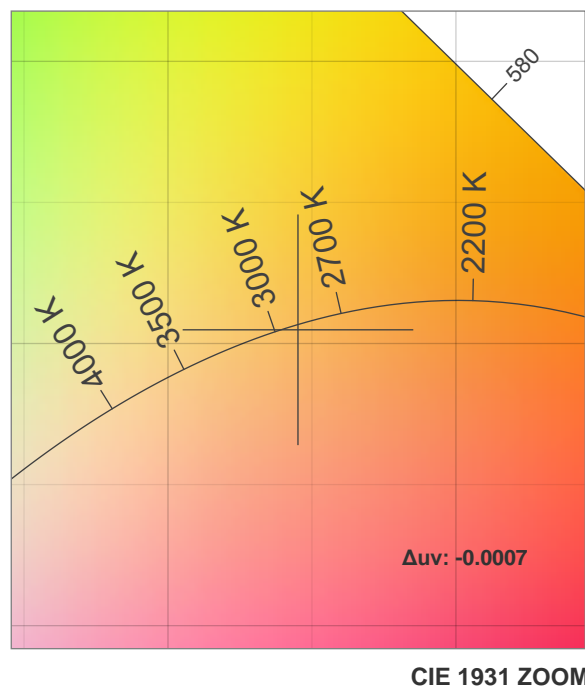
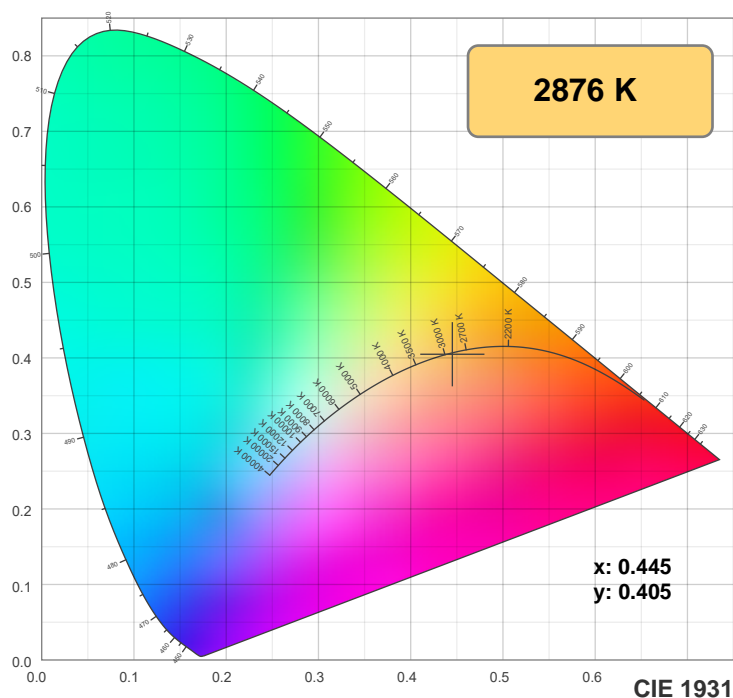
CIE 1931  
x: 0.445  
y: 0.405

Spectra

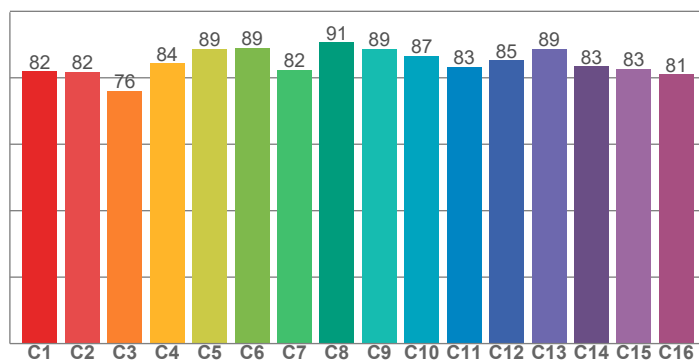


Power

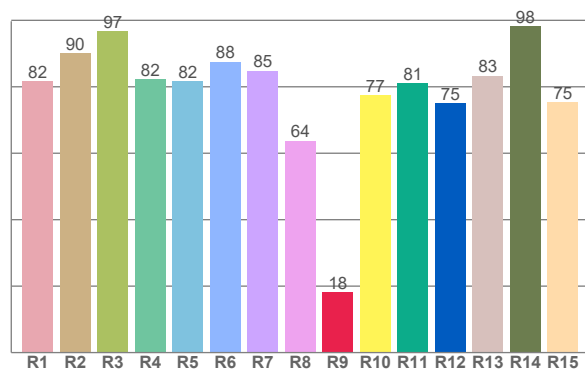




TM30: 84.5



CRI: 83.6 (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
81.7	90.1	96.8	82.2	81.6	87.6	84.8	63.7	18.2	77.4	81.2	75.0	83.3	98.2	75.4

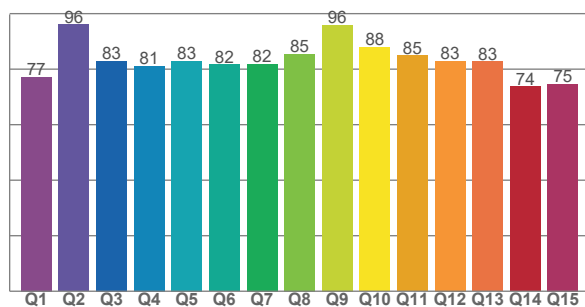
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.0	81.8	76.1	84.4	88.8	89.1	82.5	90.7	88.7	86.5	83.2	85.2	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	81.1	82.9	81.7	81.9	85.4	95.8	87.9	84.9	82.9	82.7	73.7	74.7

CQS: 82.2



## 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	Δuv
2876 K	83.6	18.2	84.5	98.7	82.2	0.445	0.405	0.256	0.349	-0.0007

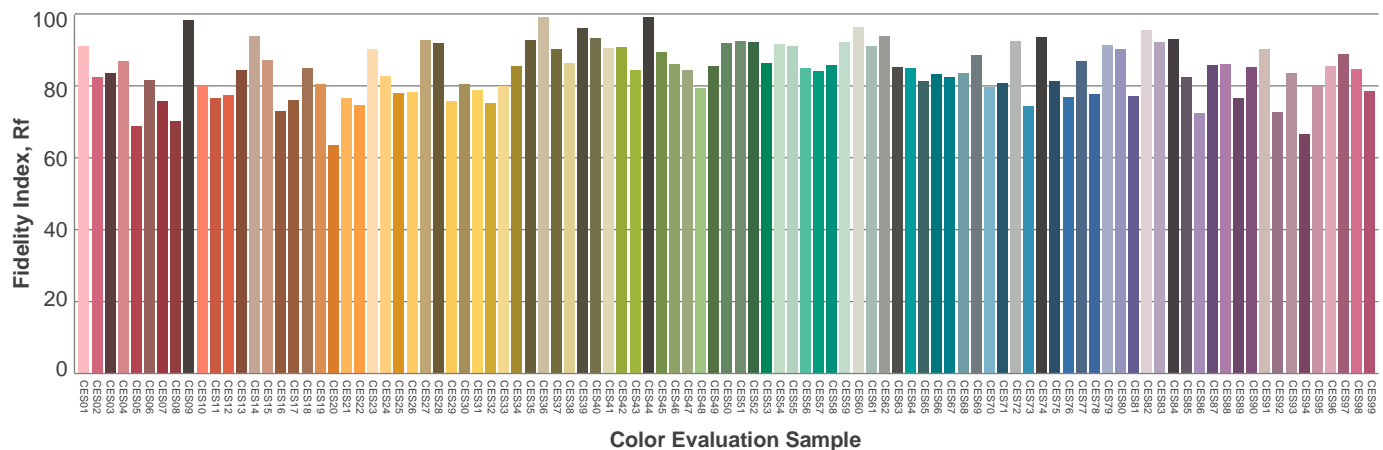
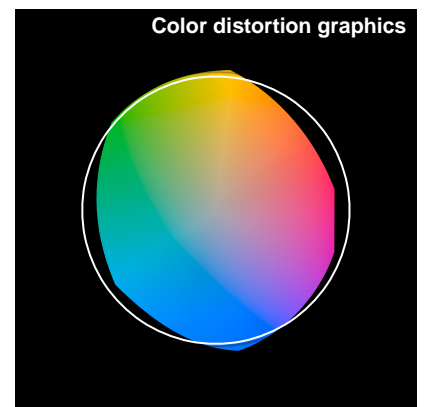
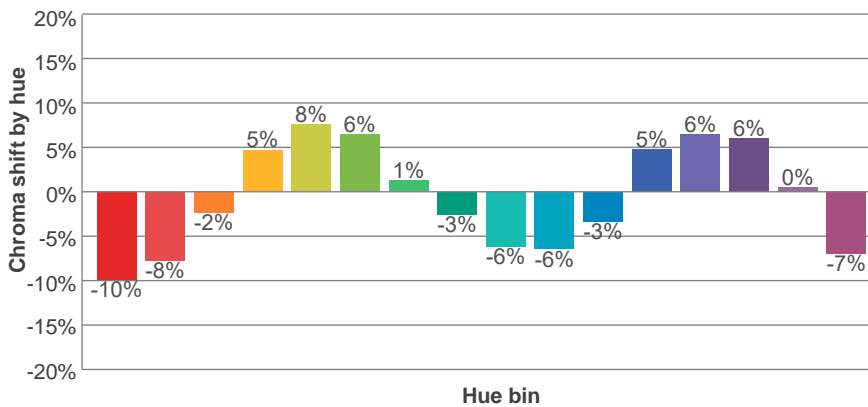
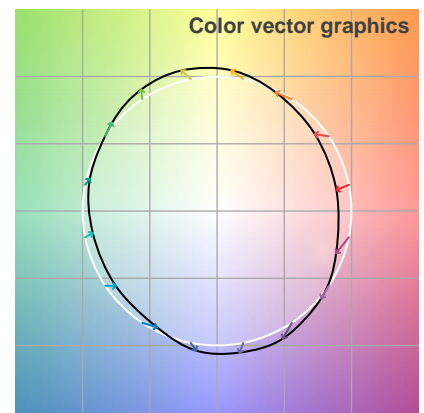
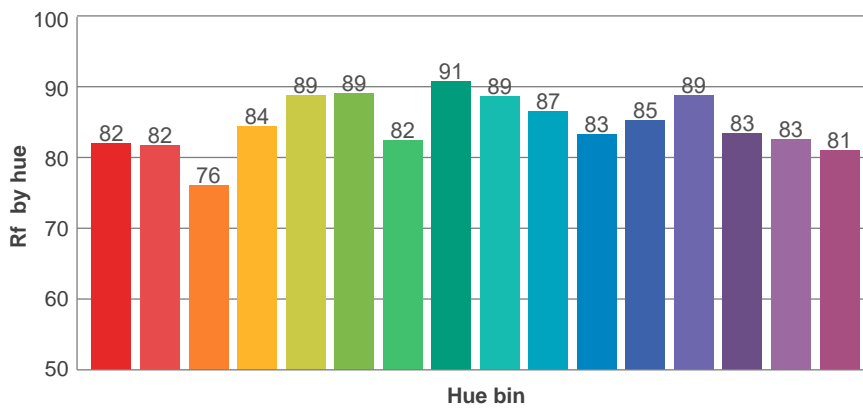
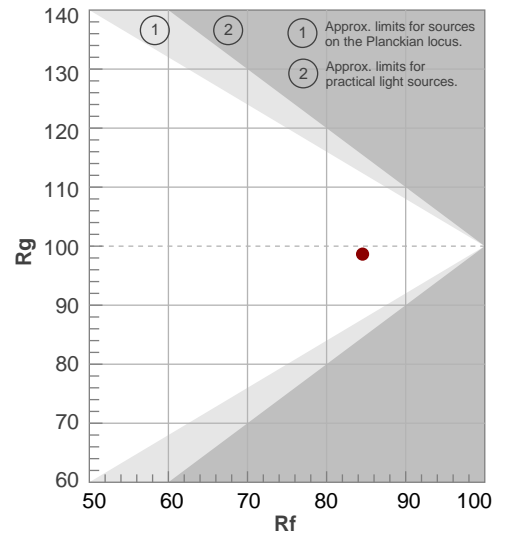
**Rf 84.5**

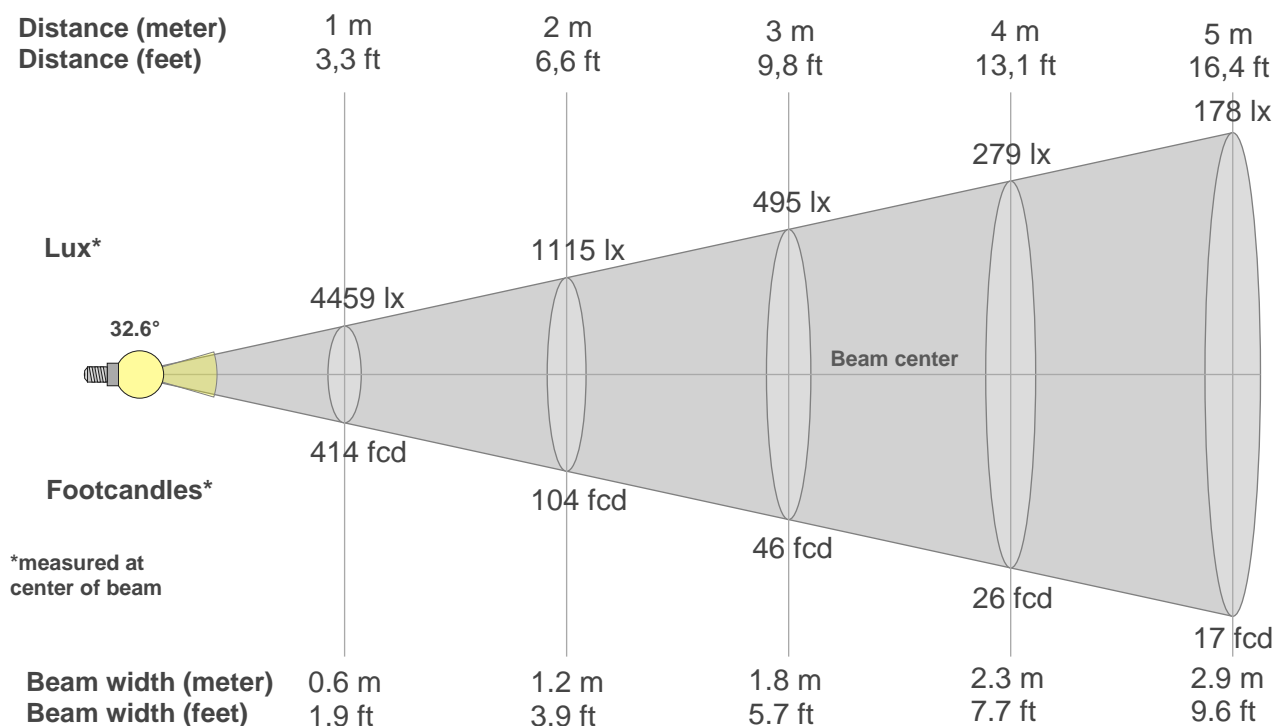
Fidelity index Rf

**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%	5%
11	83	-3%	11%
12	85	5%	5%
13	89	6%	-4%
14	83	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
4459lx	1115lx	495lx	279lx	178lx	124lx	91lx	70lx	55lx	45lx	37lx	31lx	26lx	23lx	20lx	17lx	15lx	14lx	12lx	11lx
414.3fcd	103.6fcd	46fcd	25.9fcd	16.6fcd	11.5fcd	8.5fcd	6.5fcd	5.1fcd	4.1fcd	3.4fcd	2.9fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	1fcd

#### 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°
4459	4412	4289	4093	3824	3489	3114	2718	2317	1924	1564	1245	969	734	541	393	281	199	139	95
100%	99%	96%	92%	86%	78%	70%	61%	52%	43%	35%	28%	22%	16%	12%	9%	6%	4%	3%	2%

#### 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°
4459	4418	4296	4091	3806	3467	3087	2681	2268	1873	1510	1188	910	676	494	370	257	165	110	73
100%	99%	96%	92%	85%	78%	69%	60%	51%	42%	34%	27%	20%	15%	11%	8%	6%	4%	2%	2%

#### 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°
4459	4424	4297	4092	3818	3488	3119	2722	2319	1932	1575	1254	972	742	554	405	290	202	144	103
100%	99%	96%	92%	86%	78%	70%	61%	52%	43%	35%	28%	22%	17%	12%	9%	7%	5%	3%	2%

#### 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°
4459	4420	4302	4097	3811	3471	3090	2682	2268	1872	1510	1189	910	678	497	359	254	177	122	84
100%	99%	96%	92%	85%	78%	69%	60%	51%	42%	34%	27%	20%	15%	11%	8%	6%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.6°	57.9°	73.5°	99.7%	98.7%