

Light efficiency:

41 Lumen/Watt

Light quality:

CRI: 83.5

Color temperature:

2875 K

Output: 1489 lm

Peak: 3009 cd

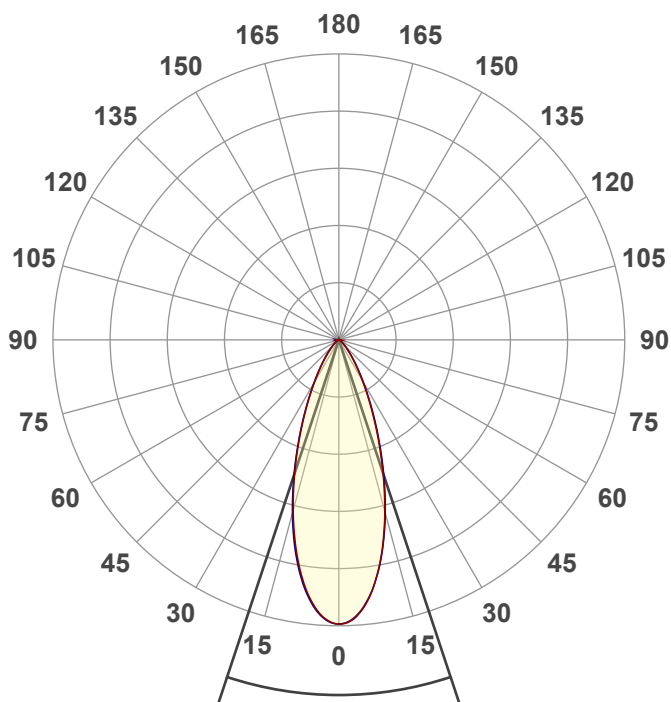
Power: 36.0 W

PF: 0.98



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

Date and time:  
6/2/2022 3:36:56 PM



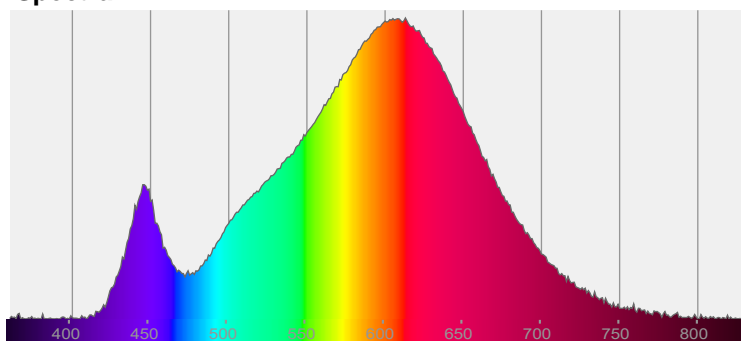
Beam angle

36.7°

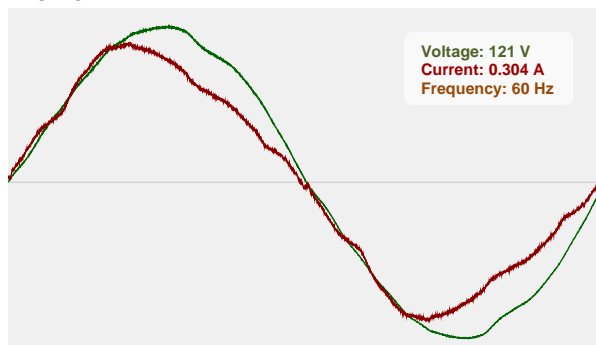


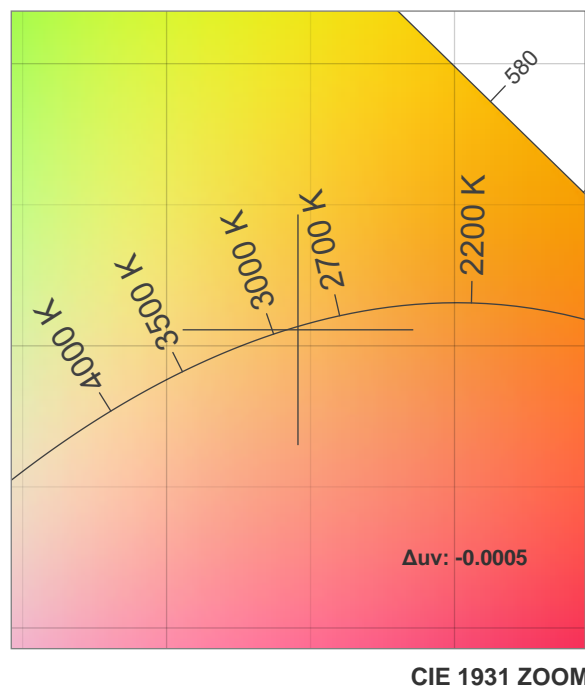
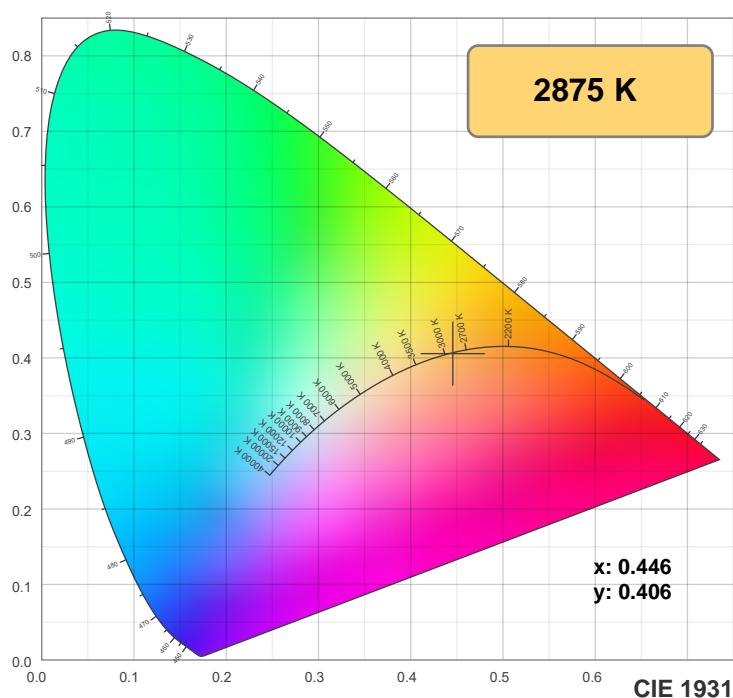
CIE 1931  
x: 0.446  
y: 0.406

Spectra

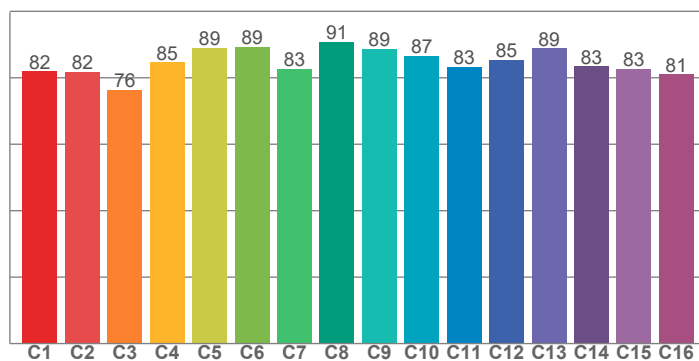


Power

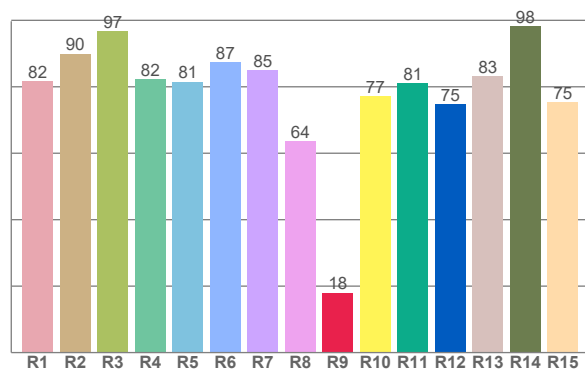




TM30: 84.6



CRI: 83.5 (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
81.6	90.0	96.8	82.2	81.5	87.5	84.9	63.7	18.0	77.2	81.1	74.7	83.2	98.2	75.2

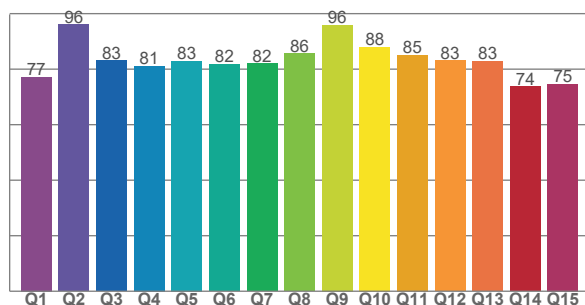
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82.0	81.8	76.3	84.6	89.0	89.3	82.7	90.9	88.7	86.5	83.3	85.3	88.9	83.5	82.7	81.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.2	96.1	83.0	81.2	82.9	81.7	82.0	85.6	95.8	88.0	85.1	83.2	82.8	73.7	74.7

CQS: 82.3



## 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	$\Delta uv$
2875 K	83.5	18.0	84.6	98.5	82.3	0.446	0.406	0.255	0.349	-0.0005

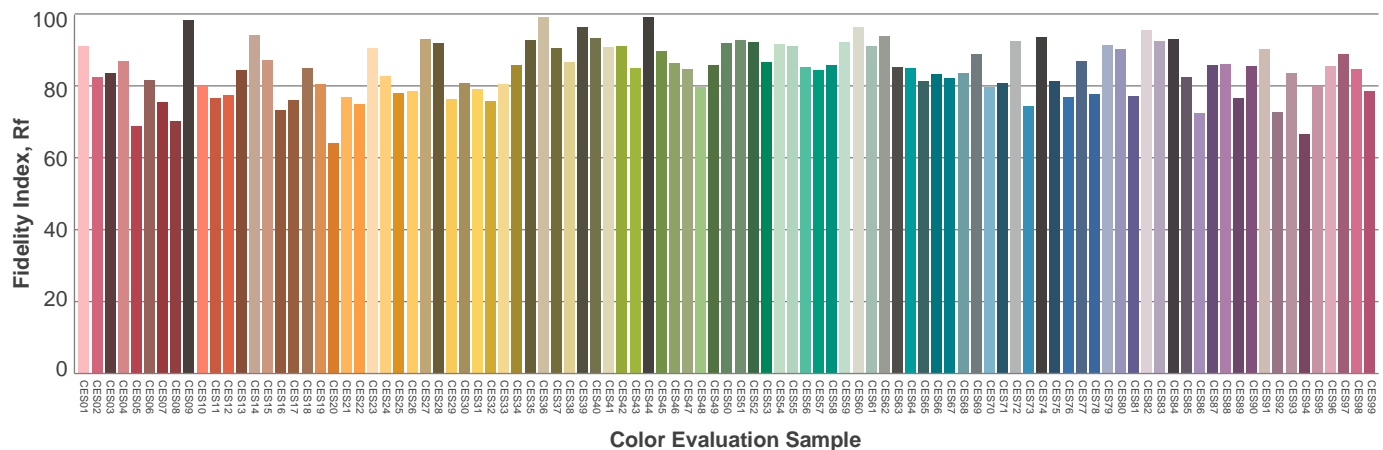
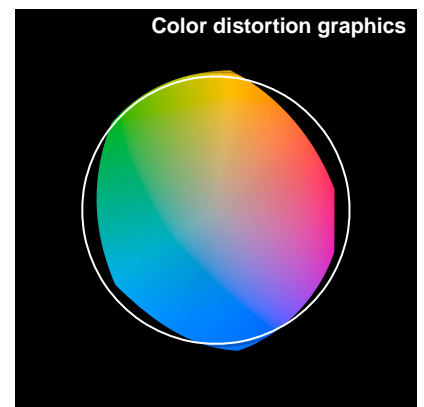
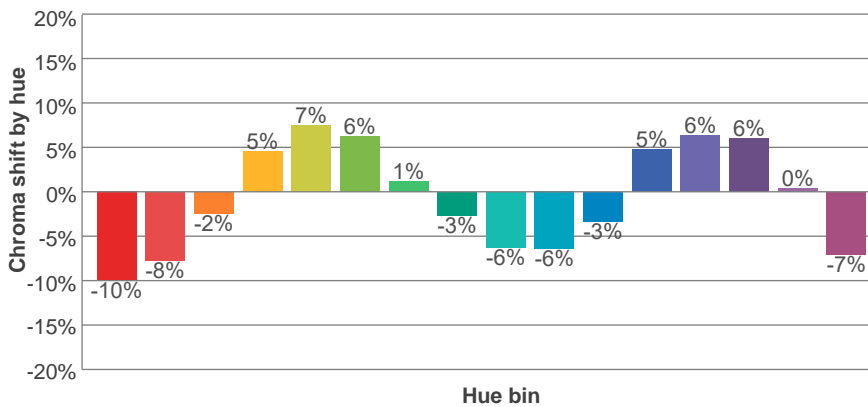
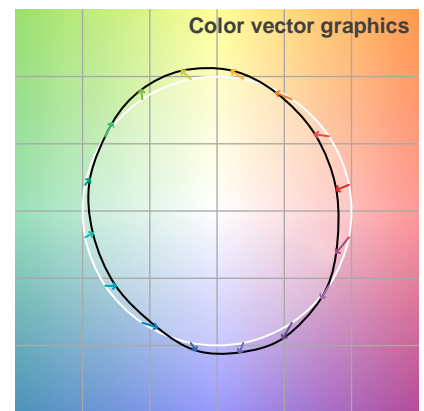
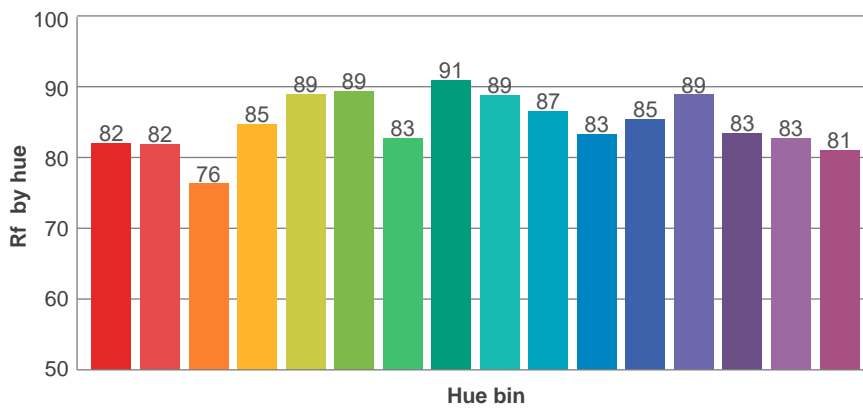
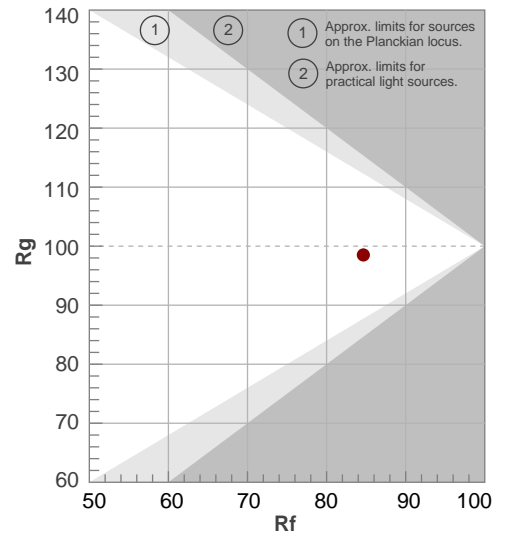
**Rf 84.6**

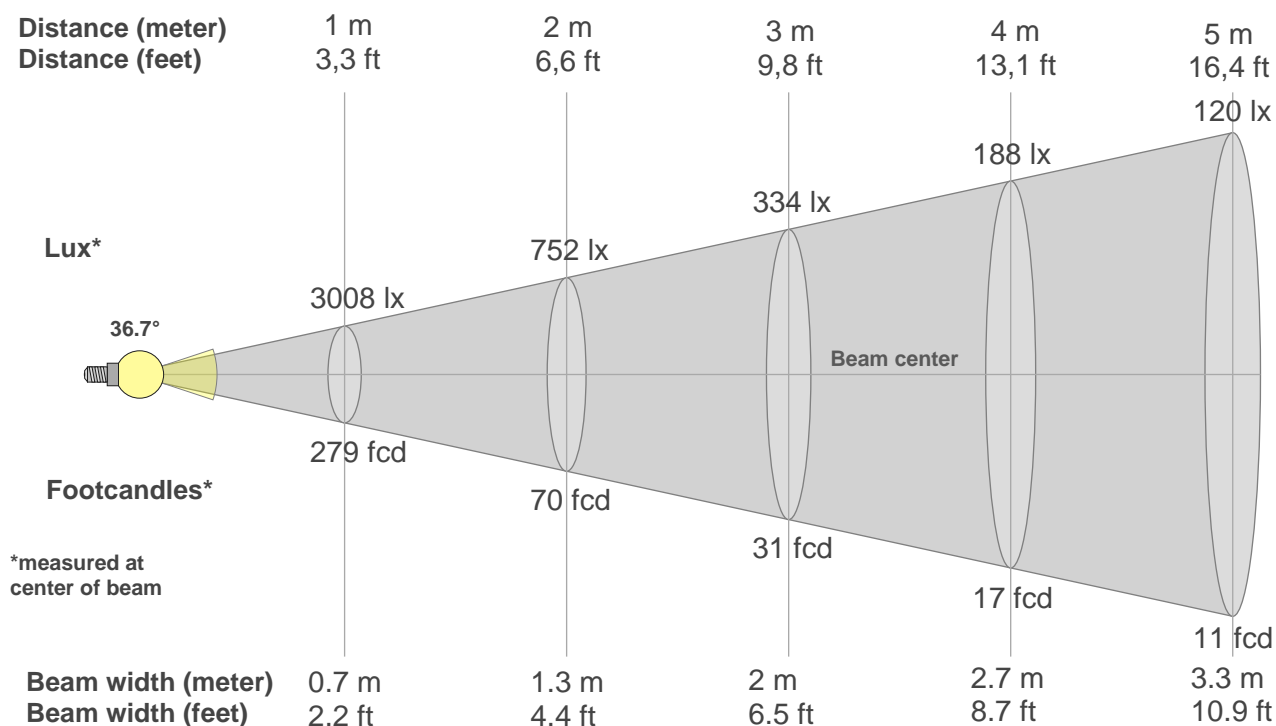
Fidelity index Rf

**Rg 98.5**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	82	-10%	-2%
2	82	-8%	7%
3	76	-2%	12%
4	85	5%	10%
5	89	7%	5%
6	89	6%	-3%
7	83	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
3008lx	752lx	334lx	188lx	120lx	84lx	61lx	47lx	37lx	30lx	25lx	21lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	8lx
279.5fcd	69.9fcd	31.1fcd	17.5fcd	11.2fcd	7.8fcd	5.7fcd	4.4fcd	3.5fcd	2.8fcd	2.3fcd	1.9fcd	1.7fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

#### 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°
3008	2989	2917	2799	2639	2447	2232	2000	1760	1526	1301	1098	913	754	618	502	405	327	262	208
100%	99%	97%	93%	88%	81%	74%	66%	59%	51%	43%	36%	30%	25%	21%	17%	13%	11%	9%	7%

#### 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°
3008	2983	2908	2789	2638	2450	2239	2014	1779	1548	1328	1122	938	776	636	517	418	336	269	214
100%	99%	97%	93%	88%	81%	74%	67%	59%	51%	44%	37%	31%	26%	21%	17%	14%	11%	9%	7%

#### 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°
3008	2980	2904	2781	2620	2426	2212	1985	1753	1525	1307	1106	927	769	633	518	421	341	275	219
100%	99%	97%	92%	87%	81%	74%	66%	58%	51%	43%	37%	31%	26%	21%	17%	14%	11%	9%	7%

#### 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°
3008	2986	2915	2797	2642	2454	2243	2015	1780	1549	1327	1123	939	779	642	526	428	347	281	227
100%	99%	97%	93%	88%	82%	75%	67%	59%	51%	44%	37%	31%	26%	21%	17%	14%	12%	9%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36.7°	70.3°	95°	99.1%	95.2%