

Light efficiency:



Light quality:



Color temperature:



Output: 1025 lm

Peak: 6160 cd

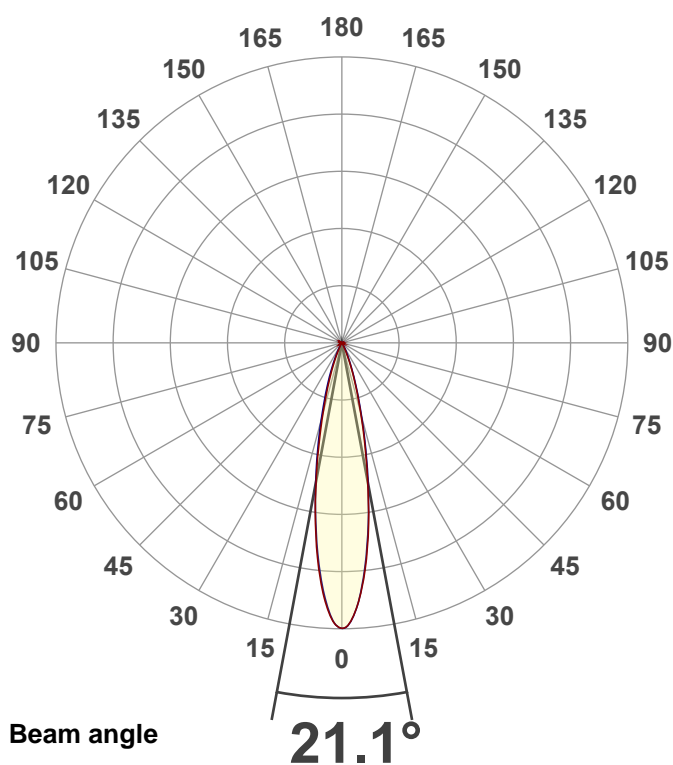
Power: 35.2 W

PF: 0.98



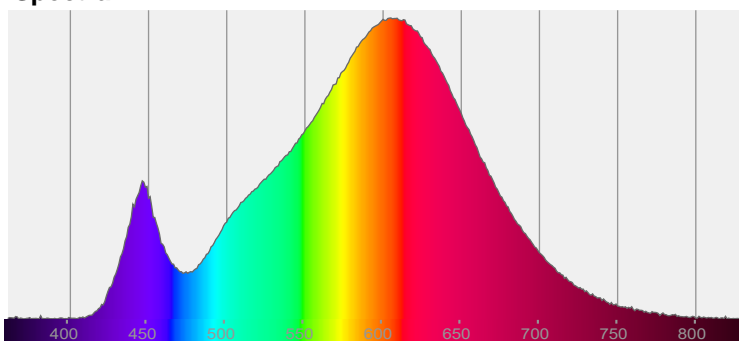
NU4-RAPH-XTM09-20LM-30K-83-20D-HCL-WH

Date and time:  
1/5/2022 9:39:12 AM

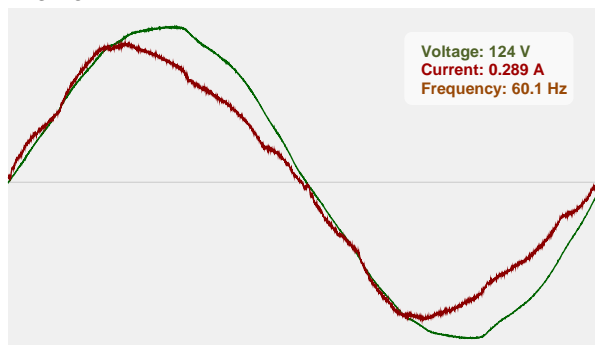


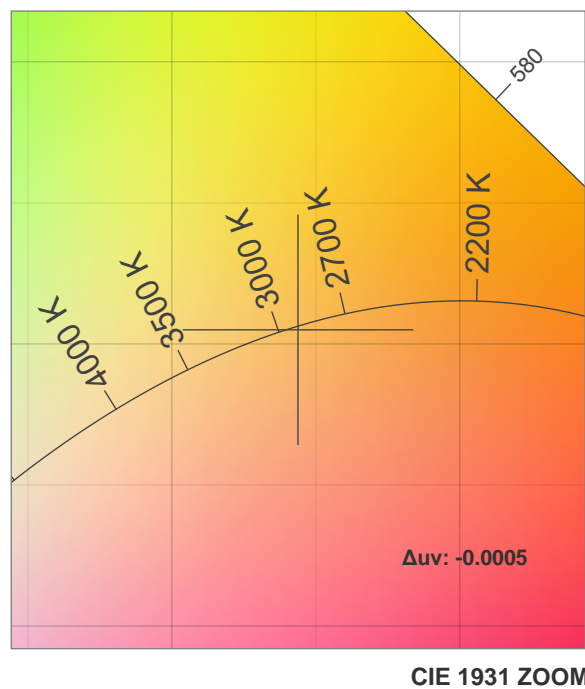
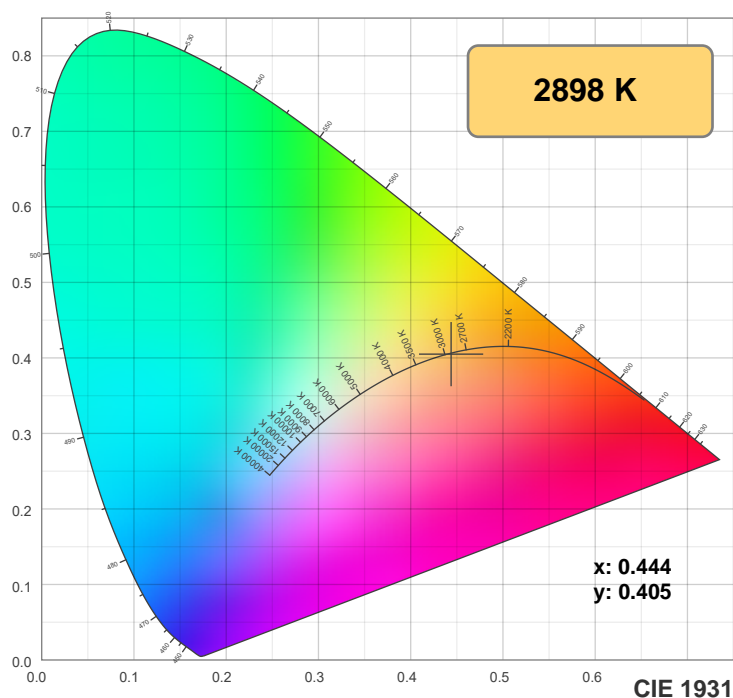
CIE 1931  
x: 0.444  
y: 0.405

Spectra

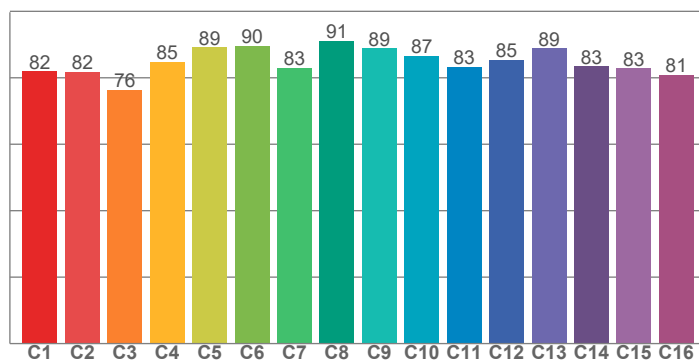


Power

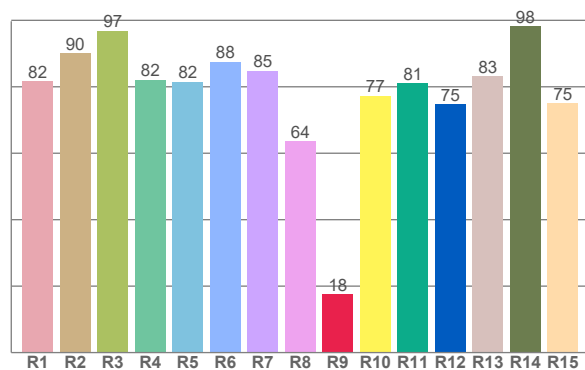




TM30: 84.7



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	82.1	81.5	87.5	84.8	63.5	17.5	77.3	81.1	74.8	83.2	98.2	75.1

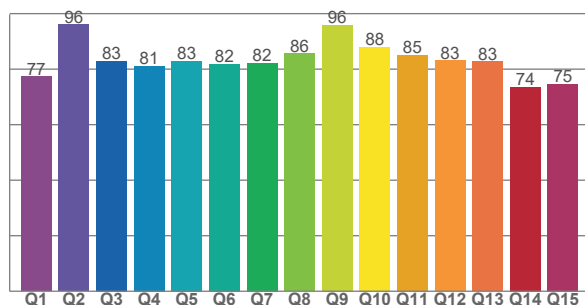
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.9	81.8	76.4	84.8	89.2	89.5	83.0	91.0	88.8	86.6	83.2	85.4	88.9	83.4	82.8	80.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.4	96.1	83.0	81.2	82.9	81.9	82.1	85.6	95.9	88.0	85.1	83.1	82.8	73.5	74.6

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	$\Delta uv$
2898 K	83.5	17.5	84.7	98.4	82.3	0.444	0.405	0.255	0.349	-0.0005

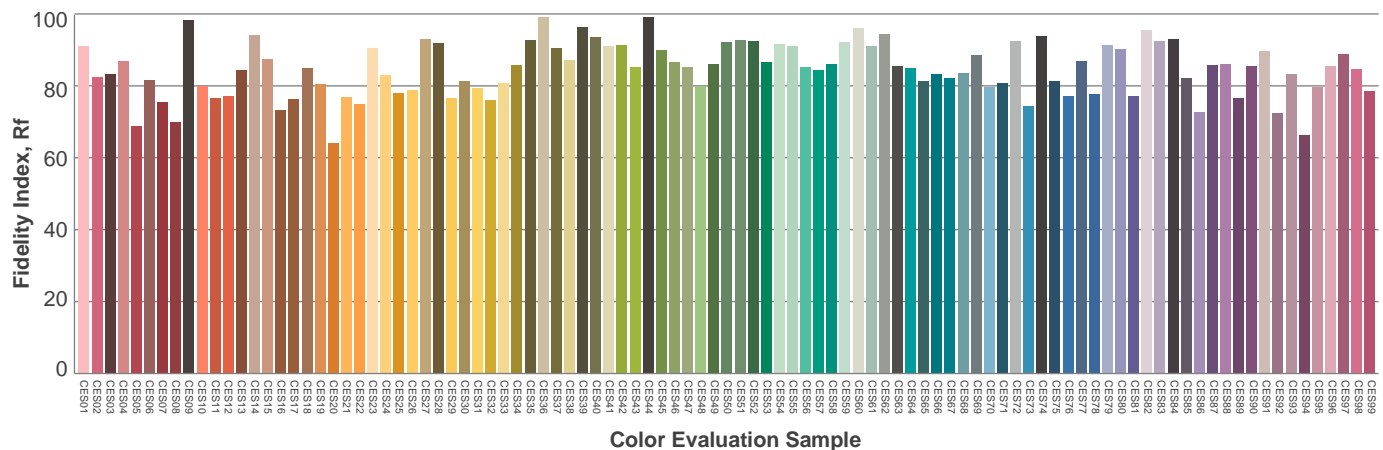
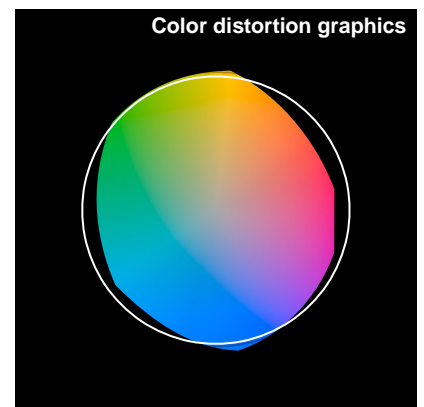
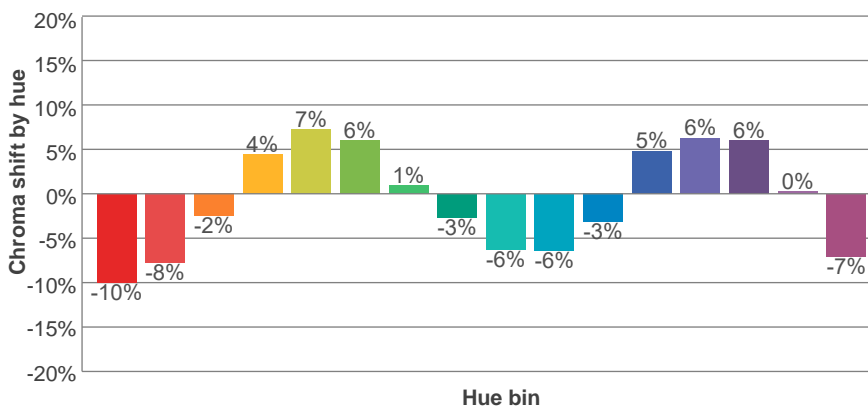
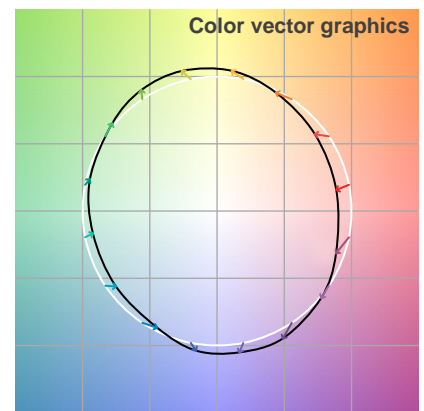
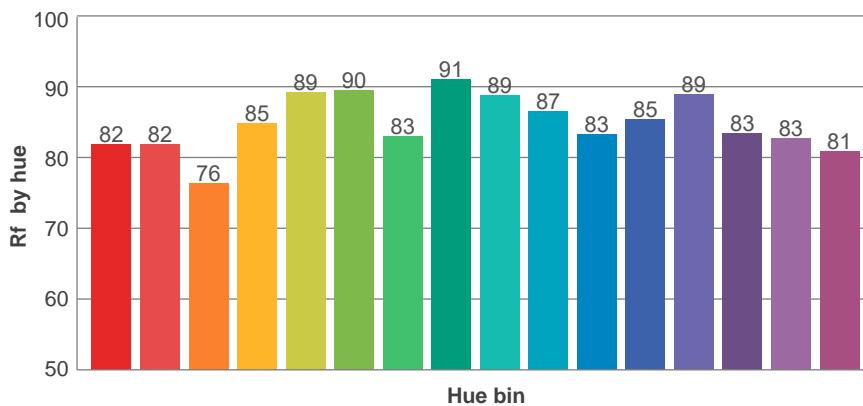
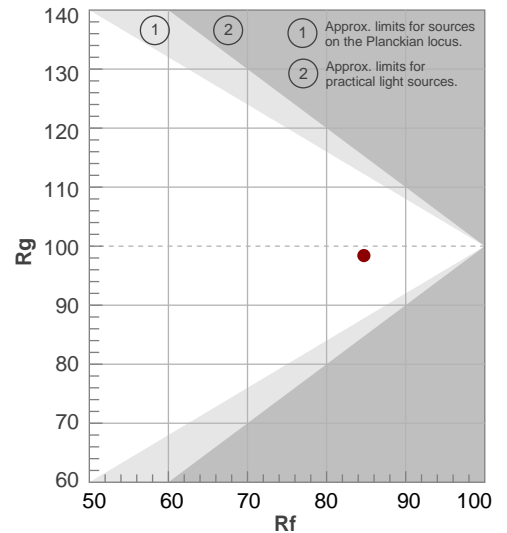
**Rf 84.7**

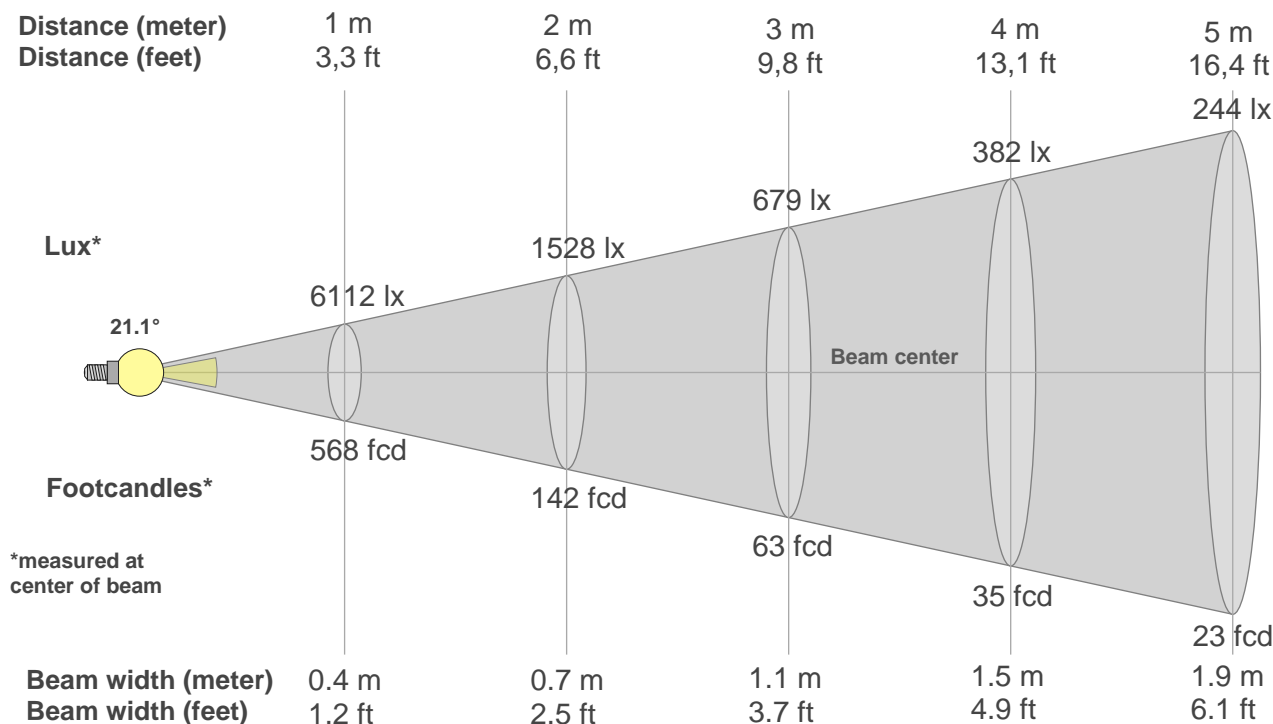
Fidelity index Rf

**Rg 98.4**

Gamut 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	4%	10%
5	89	7%	5%
6	90	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%	-14%





#### 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
6112lx	1528lx	679lx	382lx	244lx	170lx	125lx	95lx	75lx	61lx	51lx	42lx	36lx	31lx	27lx	24lx	21lx	19lx	17lx	15lx
567.8fcd	142fcd	63.1fcd	35.5fcd	22.7fcd	15.8fcd	11.6fcd	8.9fcd	7fcd	5.7fcd	4.7fcd	3.9fcd	3.4fcd	2.9fcd	2.5fcd	2.2fcd	2fcd	1.8fcd	1.6fcd	1.4fcd

#### 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°
6112	5943	5501	4874	4112	3291	2535	1885	1349	952	660	424	245	127	60	36	23	15	9	6
100%	97%	90%	80%	67%	54%	41%	31%	22%	16%	11%	7%	4%	2%	1%	1%	0%	0%	0%	0%

#### 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°
6112	5944	5486	4823	4066	3311	2597	1954	1412	1012	718	495	336	228	147	89	52	30	16	8
100%	97%	90%	79%	67%	54%	42%	32%	23%	17%	12%	8%	6%	4%	2%	1%	1%	0%	0%	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°
6112	5962	5515	4836	4071	3280	2522	1855	1345	959	656	420	244	134	77	42	24	17	9	7
100%	98%	90%	79%	67%	54%	41%	30%	22%	16%	11%	7%	4%	2%	1%	1%	0%	0%	0%	0%

#### 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°
6112	5947	5456	4769	4026	3295	2616	2005	1496	1109	801	556	365	230	145	87	50	30	17	11
100%	97%	89%	78%	66%	54%	43%	33%	24%	18%	13%	9%	6%	4%	2%	1%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.1°	41.3°	53.3°	99.7%	99.6%