

Light efficiency:

88 Lumen/Watt

Light quality:

CRI: 93.2

Color temperature:

2921 K

Output: 1810 lm

Peak: 2137 cd

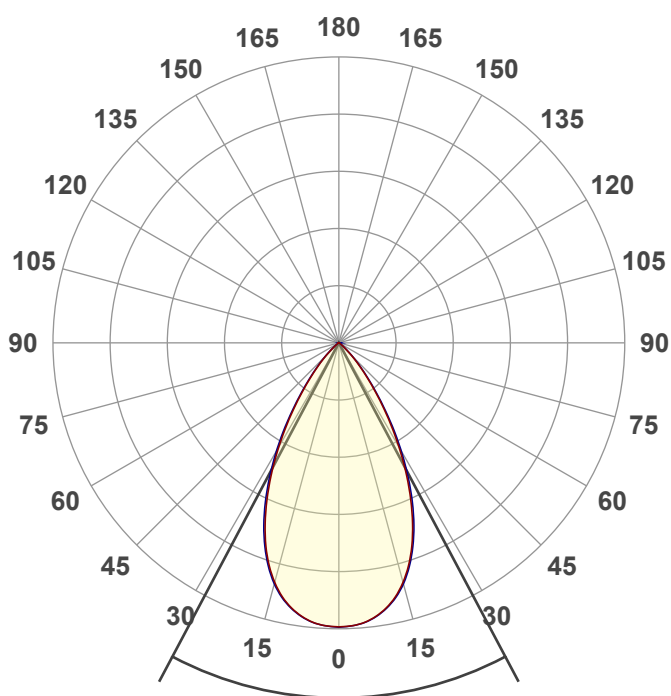
Power: 20.7 W

PF: 0.97



NUE4-RD-SW-20LM-30K-90-60D-HET-WH-WH

Date and time:  
8/1/2023 9:31:39 AM



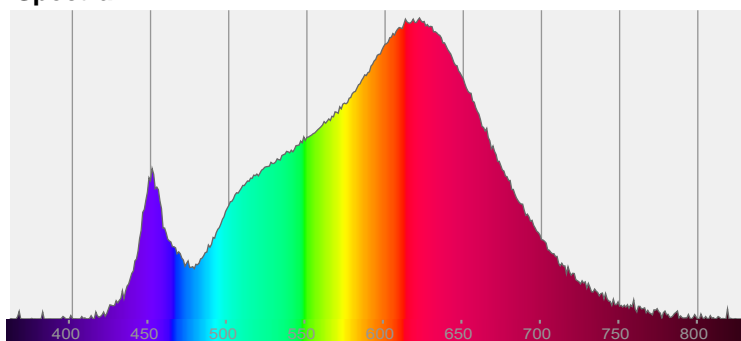
Beam angle

55.9°

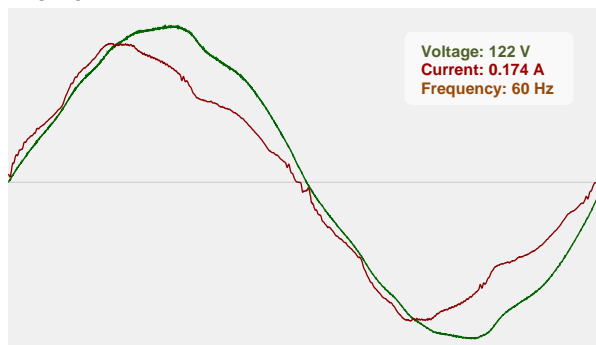


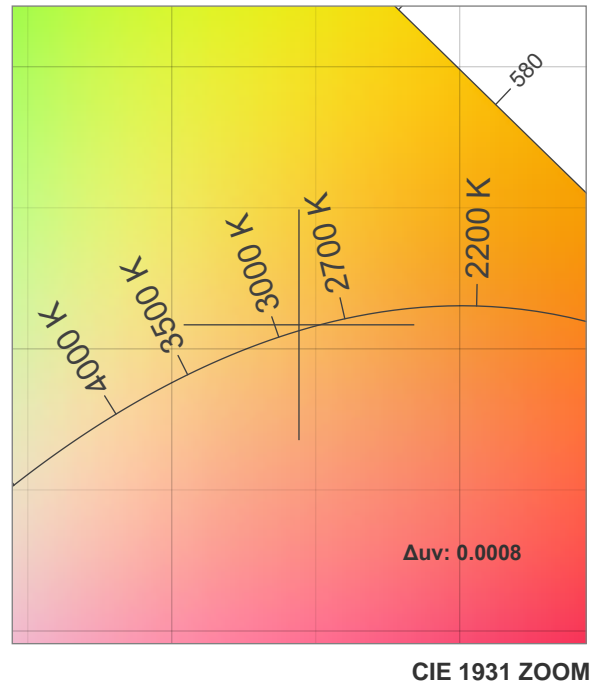
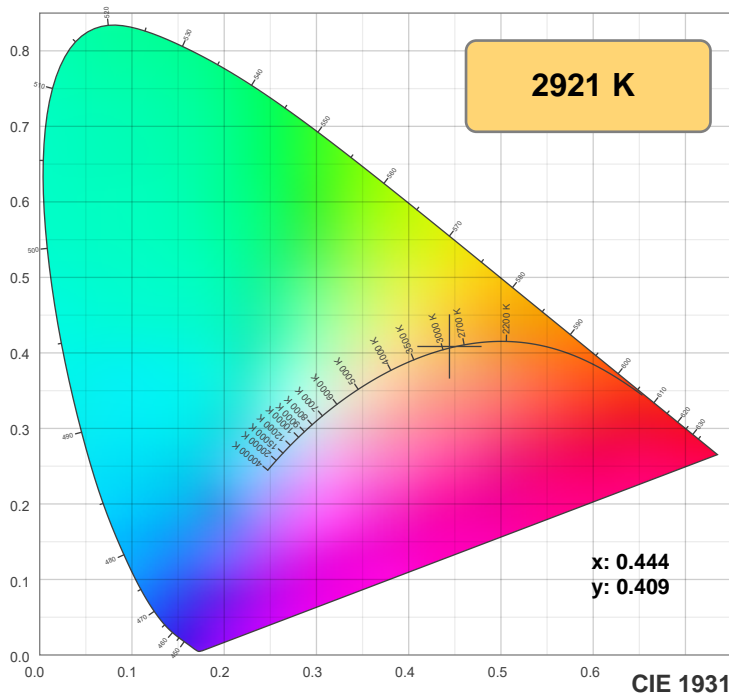
CIE 1931  
x: 0.444  
y: 0.409

Spectra

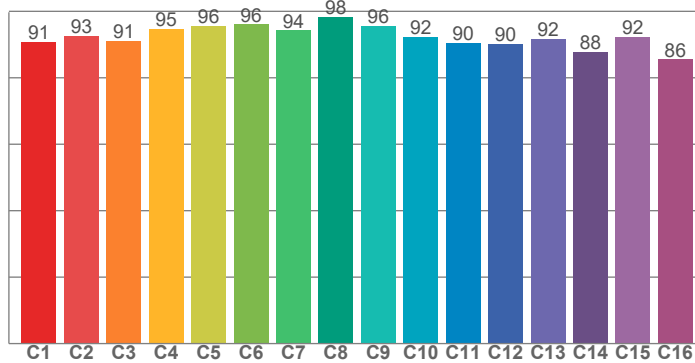


Power

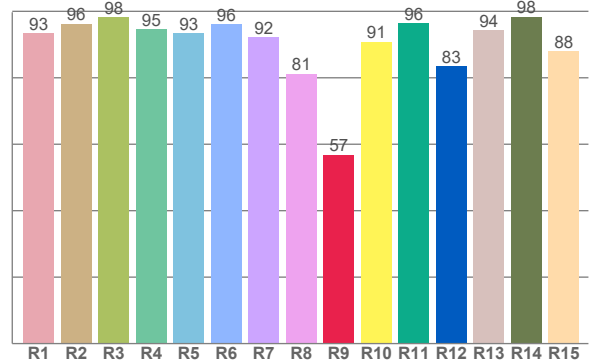




TM30: 92.5



CRI: 93.2 (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
93.4	96.2	98.3	94.6	93.4	96.2	92.2	81.2	56.8	90.8	96.4	83.4	94.2	98.4	88.1

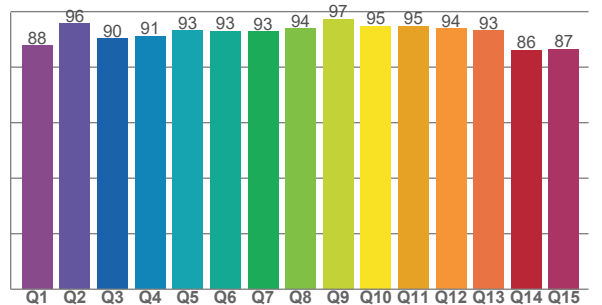
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
90.9	92.6	91.0	94.8	95.7	96.0	94.2	98.4	95.7	92.4	90.4	90.2	91.7	87.8	92.3	85.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.7	95.7	90.3	91.1	93.2	92.9	92.8	93.8	97.4	94.9	94.7	93.9	93.1	86.1	86.6

CQS: 91.5



## 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
2921 K	93.2	56.8	92.5	99.3	91.5	0.444	0.409	0.253	0.349	0.0008

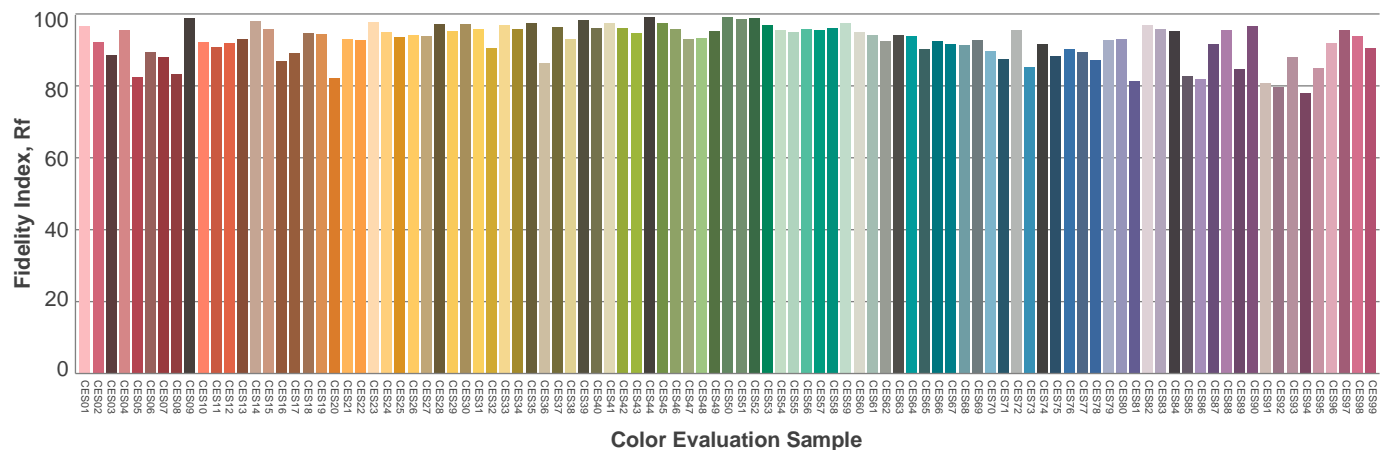
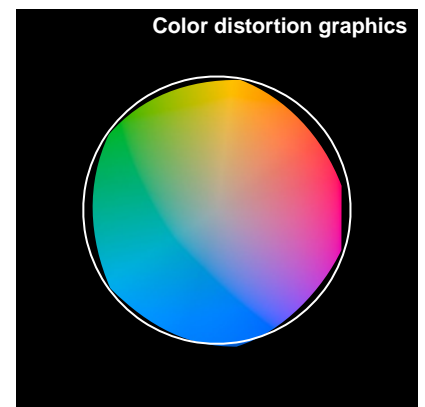
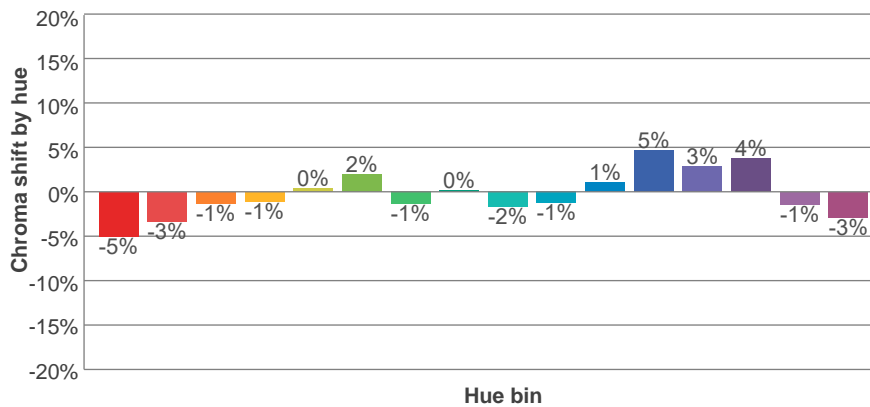
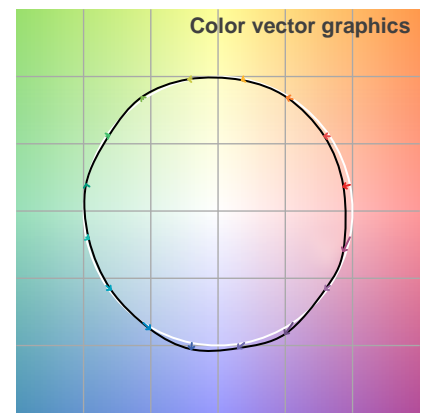
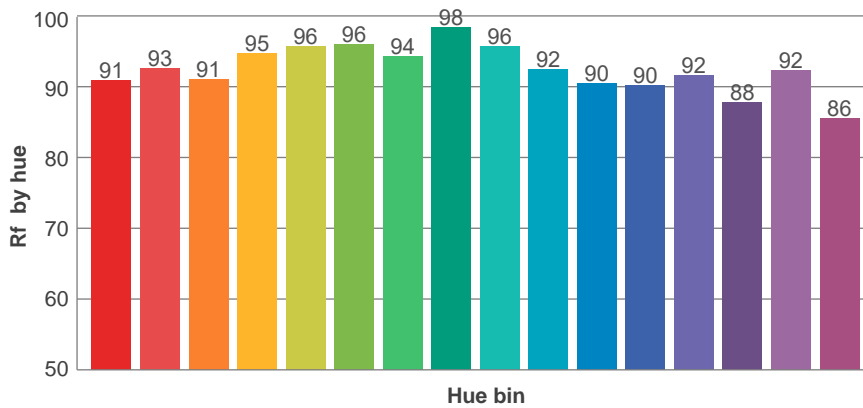
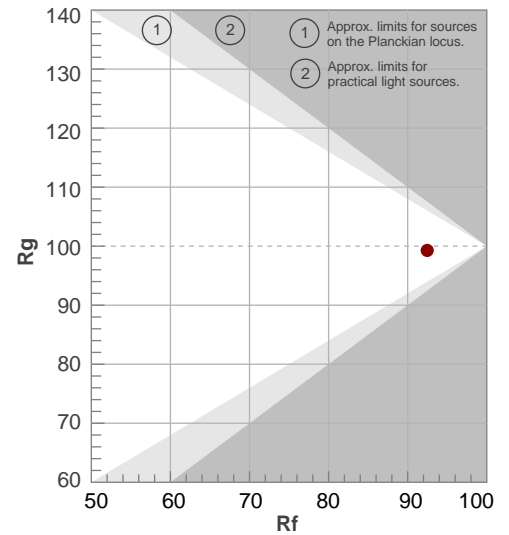
**Rf 92.5**

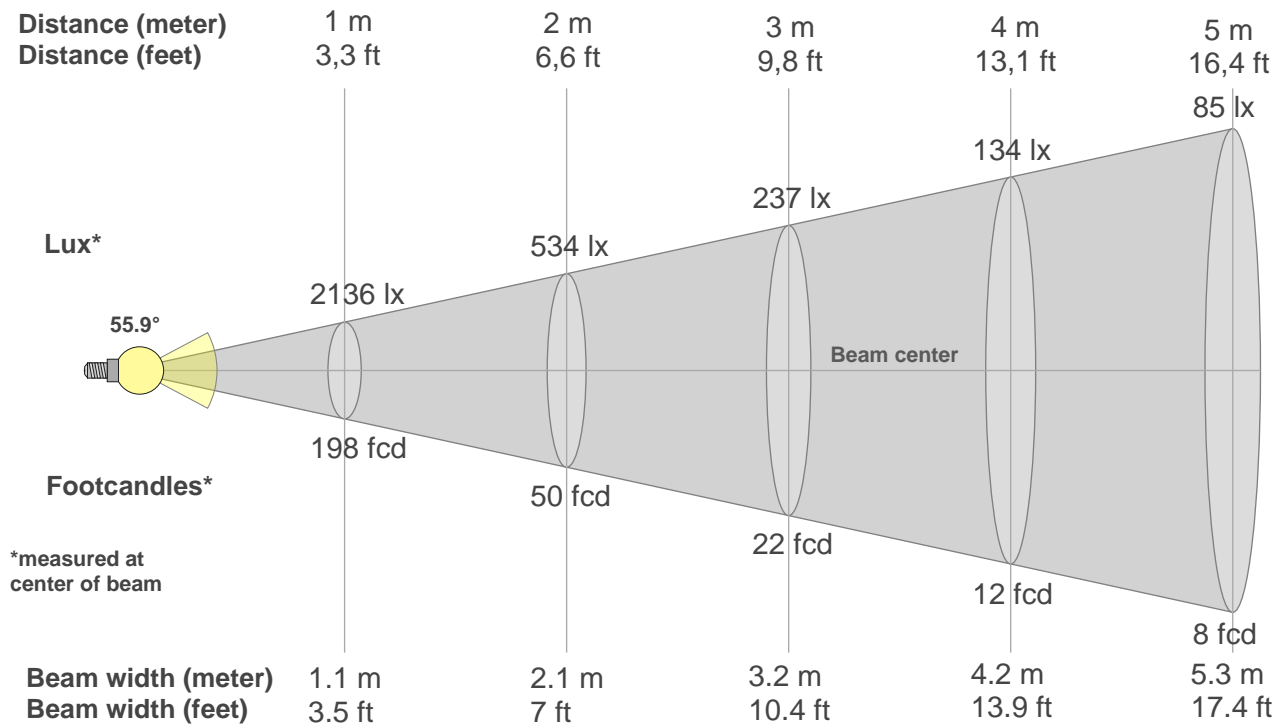
Fidelity index Rf

**Rg 99.3**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	0%
2	93	-3%	2%
3	91	-1%	4%
4	95	-1%	2%
5	96	0%	3%
6	96	2%	0%
7	94	-1%	-2%
8	98	0%	0%
9	96	-2%	2%
10	92	-1%	4%
11	90	1%	7%
12	90	5%	0%
13	92	3%	-5%
14	88	4%	-9%
15	92	-1%	-4%
16	86	-3%	-11%





#### 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
2136lx	534lx	237lx	134lx	85lx	59lx	44lx	33lx	26lx	21lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	7lx	6lx	5lx
198.5fcd	49.6fcd	22.1fcd	12.4fcd	7.9fcd	5.5fcd	4.1fcd	3.1fcd	2.5fcd	2fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd

#### 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°
2136	2130	2120	2100	2068	2027	1971	1901	1817	1719	1607	1479	1341	1197	1050	903	759	624	502	395
100%	100%	99%	98%	97%	95%	92%	89%	85%	80%	75%	69%	63%	56%	49%	42%	36%	29%	23%	18%

#### 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°
2136	2131	2120	2101	2072	2031	1978	1911	1831	1735	1627	1505	1371	1230	1084	938	793	653	526	415
100%	100%	99%	98%	97%	95%	93%	89%	86%	81%	76%	70%	64%	58%	51%	44%	37%	31%	25%	19%

#### 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°
2136	2130	2120	2100	2068	2027	1971	1901	1817	1719	1607	1479	1341	1197	1050	903	759	624	502	395
100%	100%	99%	98%	97%	95%	92%	89%	85%	80%	75%	69%	63%	56%	49%	42%	36%	29%	23%	18%

#### 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°
2136	2131	2120	2101	2072	2031	1978	1911	1831	1735	1627	1505	1371	1230	1084	938	793	653	526	415
100%	100%	99%	98%	97%	95%	93%	89%	86%	81%	76%	70%	64%	58%	51%	44%	37%	31%	25%	19%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
55.9°	85.2°	99.1°	99.2%	96.2%