

Light efficiency:

93 Lumen/Watt

Light quality:

CRI: 82.1

Color temperature:

3045 K

Output: 1979 lm

Peak: 3889 cd

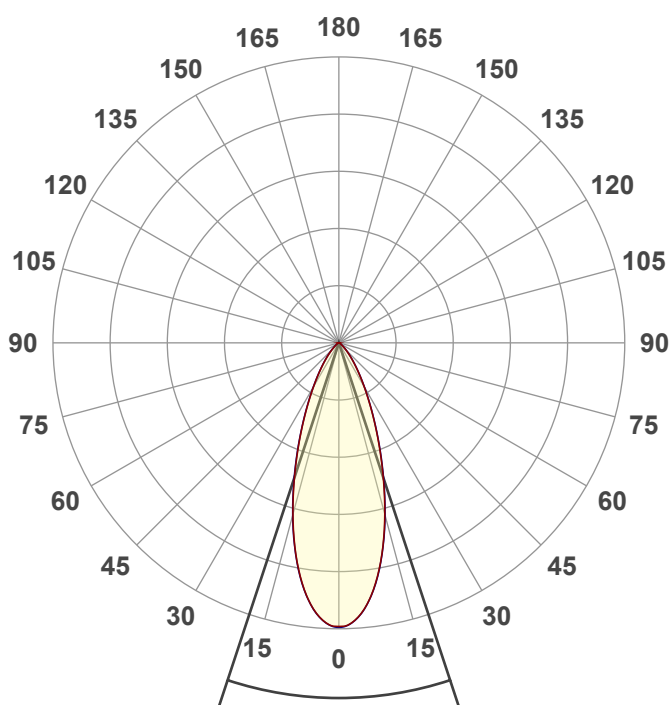
Power: 21.3 W

PF: 0.98



NU4-SD-SW-20LM-30K-80-20D-NA-DL-WH-WH

Date and time:  
11/27/2024 11:37:43 AM



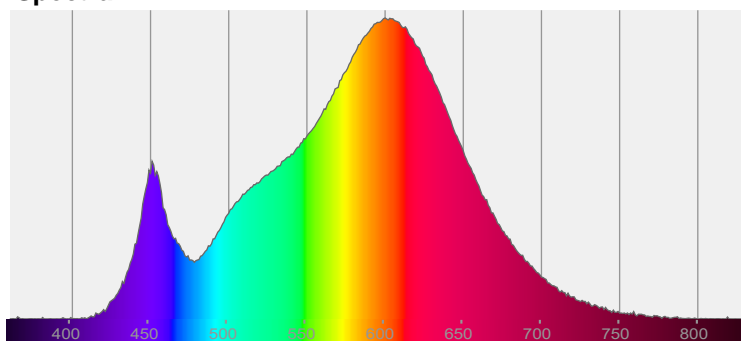
Beam angle

36.5°

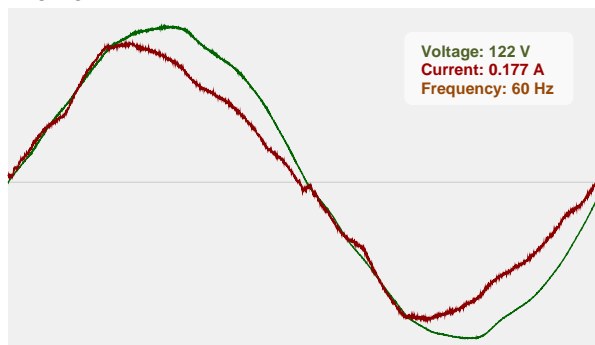


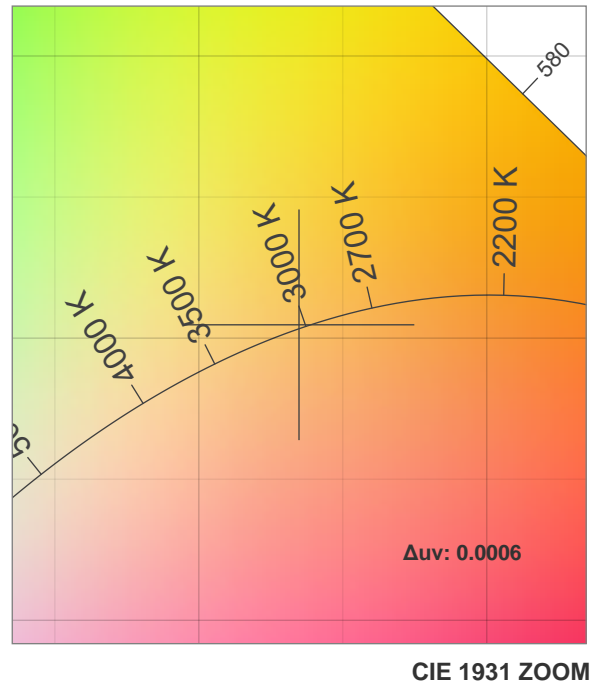
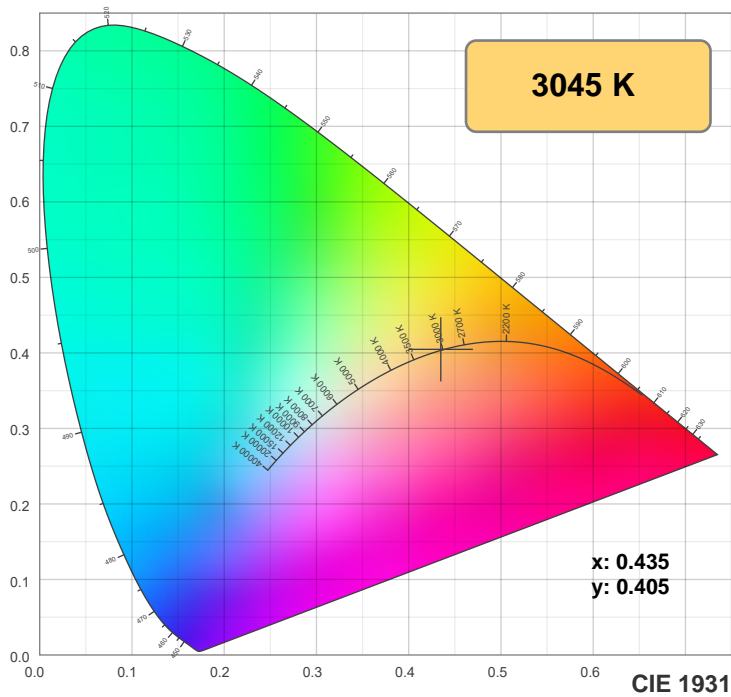
CIE 1931  
x: 0.435  
y: 0.405

Spectra

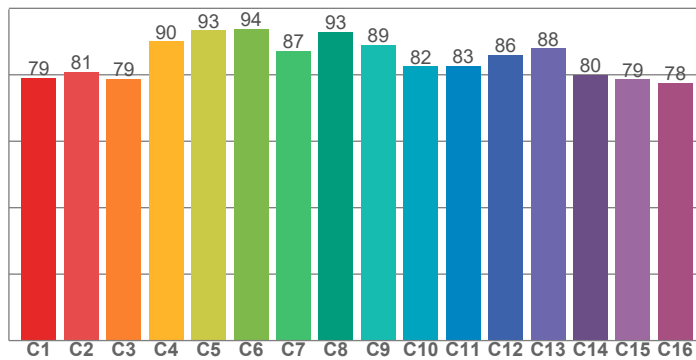


Power

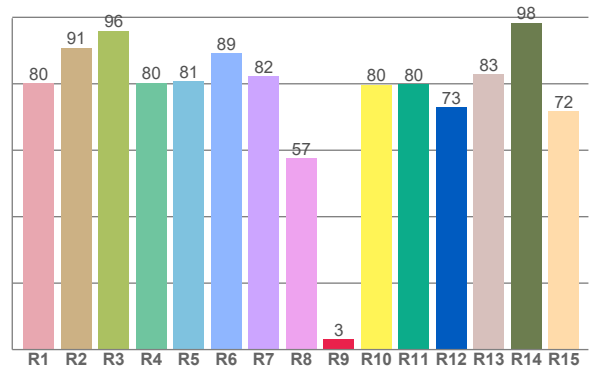




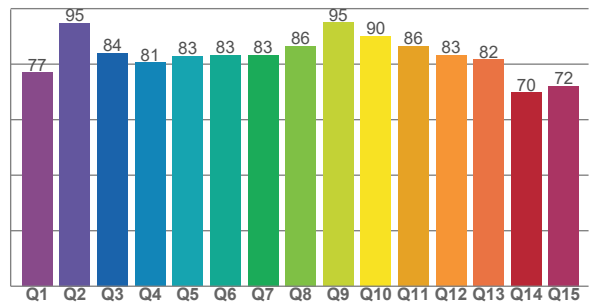
TM30: 85.1



CRI: 82.1 (R1-R8)



CQS: 81.9



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
80.3	90.9	96.0	80.3	80.7	89.3	82.2	57.5	3.1	79.7	79.8	72.8	82.8	98.3	71.7

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
79.1	80.9	78.7	90.0	93.3	93.8	87.3	92.9	89.1	82.5	82.8	86.0	87.9	80.0	78.6	77.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.9	94.9	84.0	80.6	82.8	83.3	83.3	86.5	95.0	90.2	86.5	83.4	81.7	69.7	72.2

## 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
3045 K	82.1	3.1	85.1	95.2	81.9	0.435	0.405	0.249	0.348	0.0006

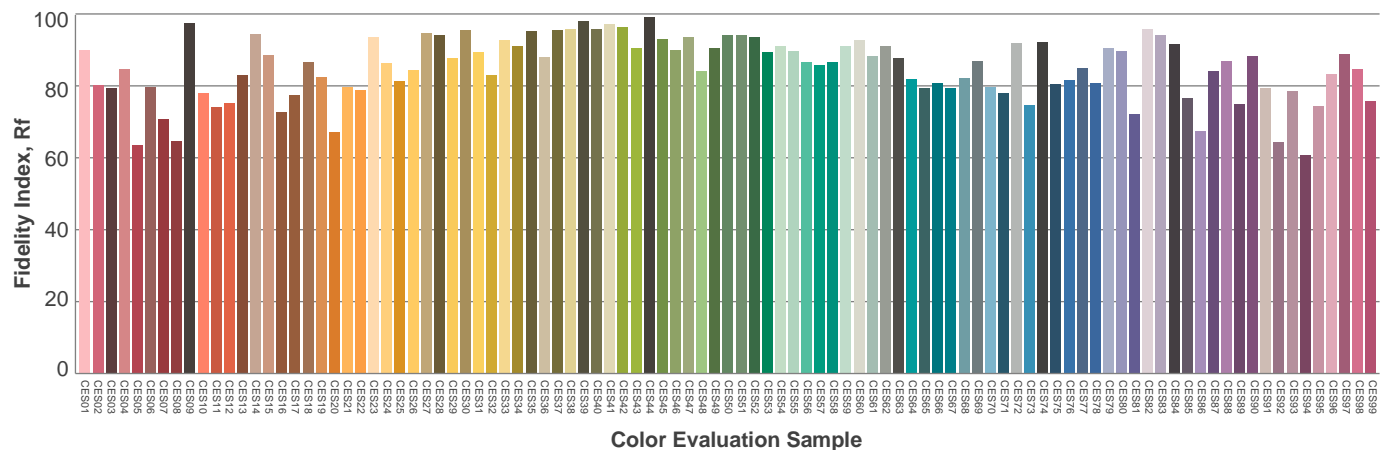
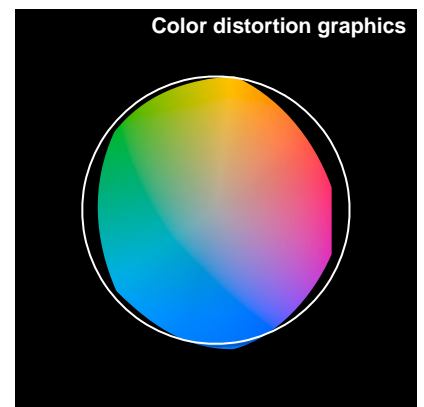
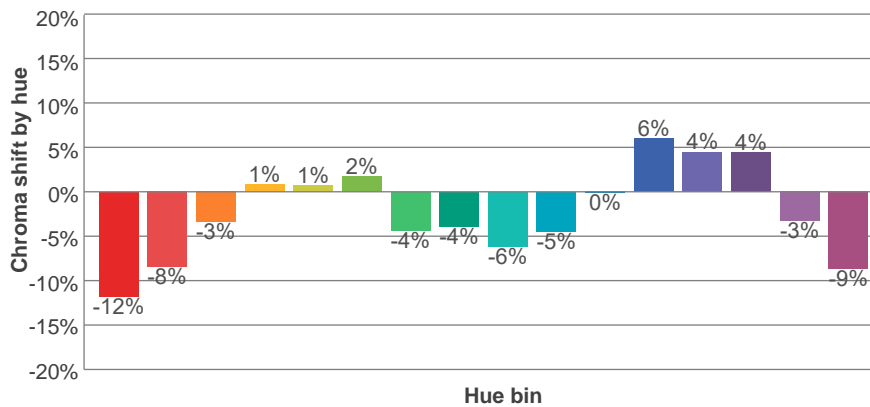
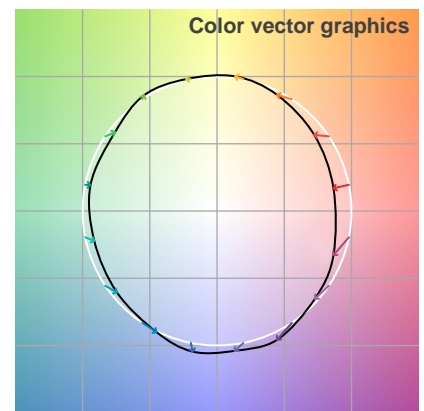
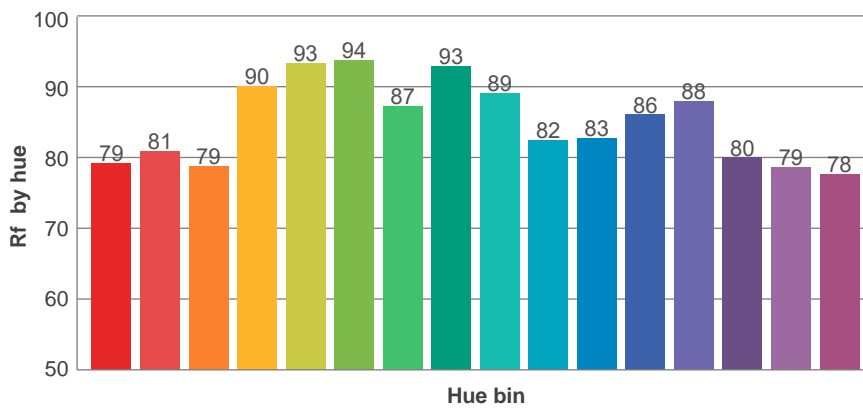
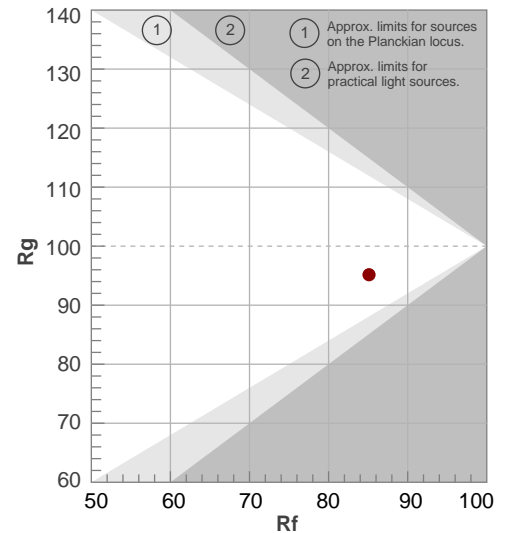
**Rf 85.1**

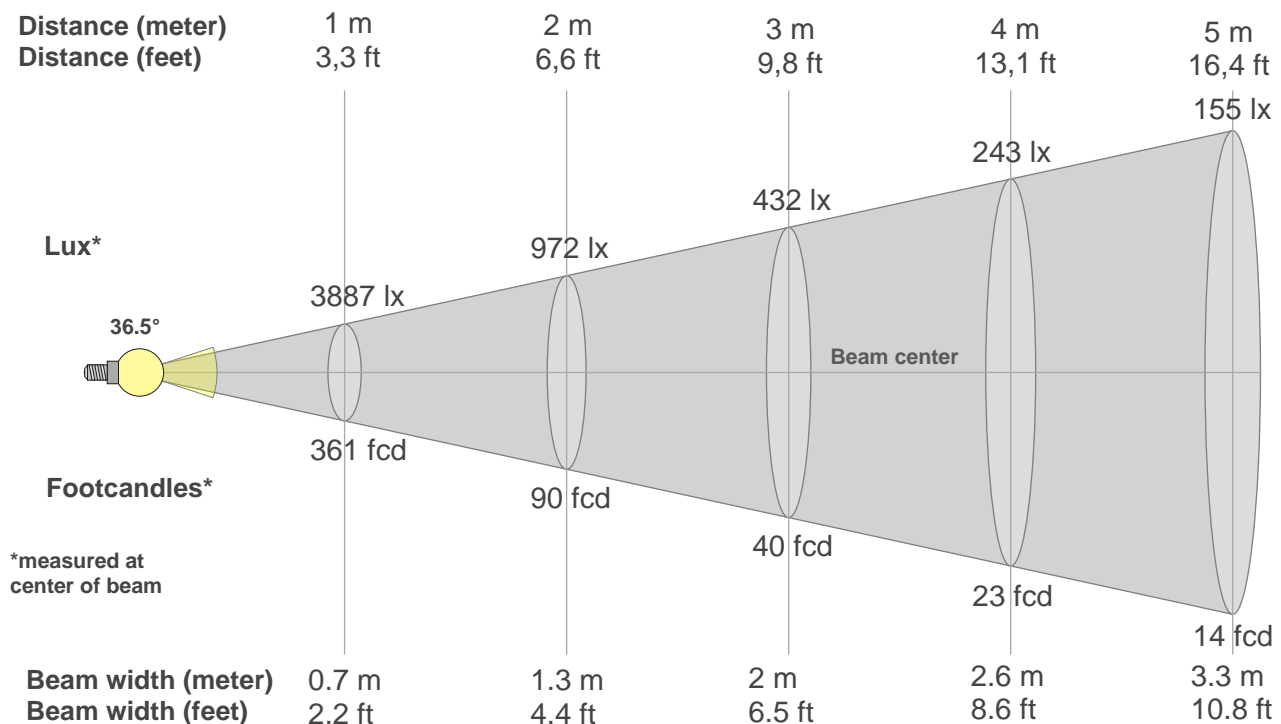
Fidelity index Rf

**Rg 95.2**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-12%	0%
2	81	-8%	7%
3	79	-3%	11%
4	90	1%	6%
5	93	1%	3%
6	94	2%	-3%
7	87	-4%	-6%
8	93	-4%	-1%
9	89	-6%	4%
10	82	-5%	9%
11	83	0%	12%
12	86	6%	3%
13	88	4%	-7%
14	80	4%	-16%
15	79	-3%	-14%
16	78	-9%	-15%





#### 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
3887lx	972lx	432lx	243lx	155lx	108lx	79lx	61lx	48lx	39lx	32lx	27lx	23lx	20lx	17lx	15lx	13lx	12lx	11lx	10lx
361.1fcd	90.3fcd	40.1fcd	22.6fcd	14.4fcd	10fcd	7.4fcd	5.6fcd	4.5fcd	3.6fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd

#### 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°
3887	3852	3759	3609	3402	3156	2878	2579	2274	1977	1695	1440	1211	1011	840	695	571	468	380	308
100%	99%	97%	93%	88%	81%	74%	66%	59%	51%	44%	37%	31%	26%	22%	18%	15%	12%	10%	8%

#### 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°
3887	3856	3761	3609	3410	3162	2884	2592	2287	1990	1710	1451	1219	1020	845	700	576	472	386	312
100%	99%	97%	93%	88%	81%	74%	67%	59%	51%	44%	37%	31%	26%	22%	18%	15%	12%	10%	8%

#### 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°
3887	3852	3759	3609	3402	3156	2878	2579	2274	1977	1695	1440	1211	1011	840	695	571	468	380	308
100%	99%	97%	93%	88%	81%	74%	66%	59%	51%	44%	37%	31%	26%	22%	18%	15%	12%	10%	8%

#### 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°
3887	3856	3761	3609	3410	3162	2884	2592	2287	1990	1710	1451	1219	1020	845	700	576	472	386	312
100%	99%	97%	93%	88%	81%	74%	67%	59%	51%	44%	37%	31%	26%	22%	18%	15%	12%	10%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36.5°	71.9°	97.7°	98.6%	94.0%