

Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 93.2

Color temperature:

3026 K

Output: 1921 lm

Peak: 2059 cd

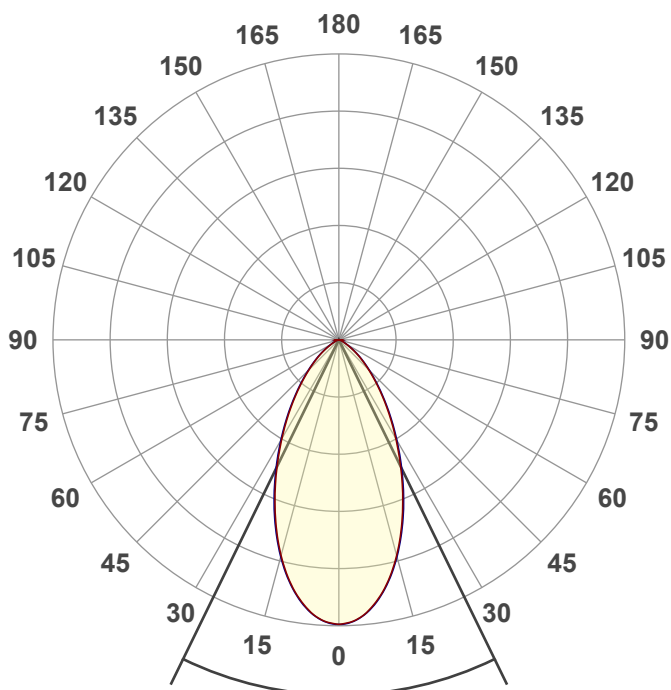
Power: 25.0 W

PF: 0.98



NU4-RD-TW-20LM-2765-95-40D-DL-WH-WH

Date and time:  
3/27/2023 10:16:43 AM



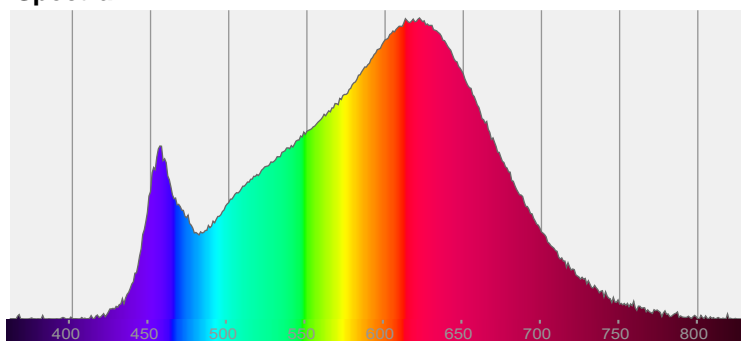
Beam angle

52°

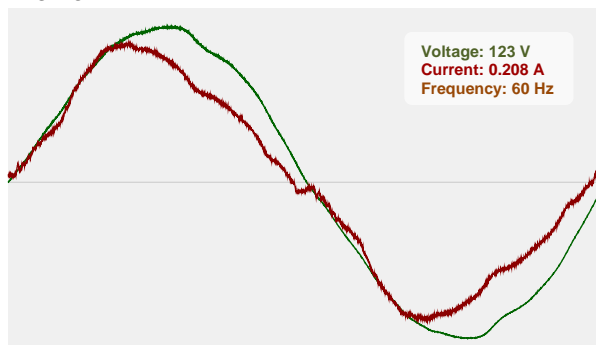


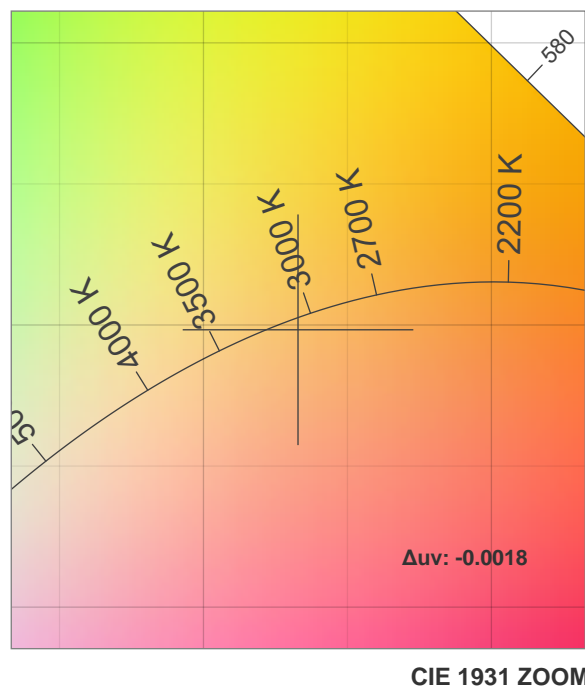
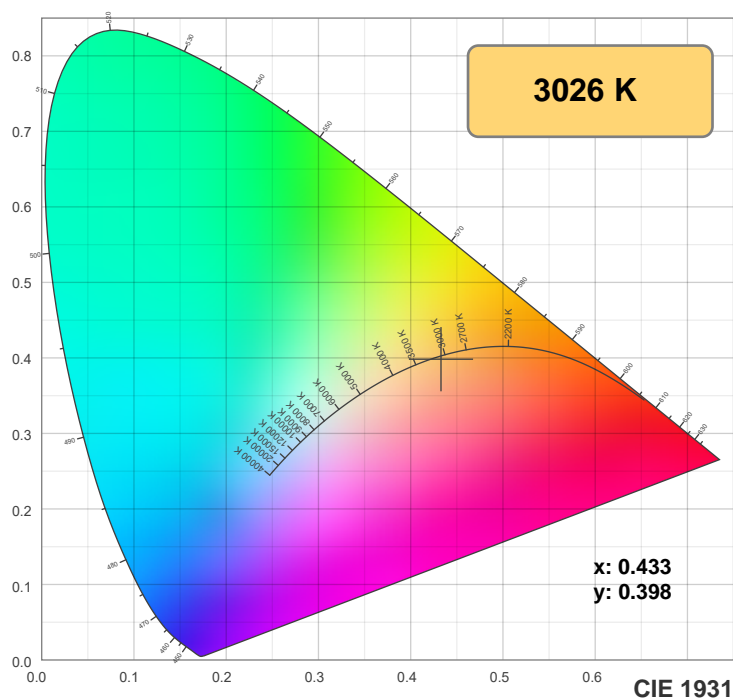
CIE 1931  
x: 0.433  
y: 0.398

Spectra

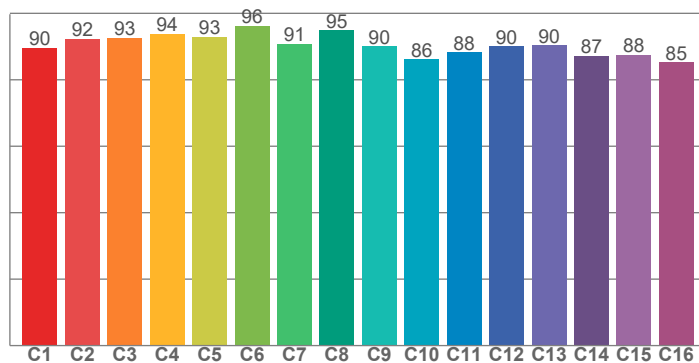


Power

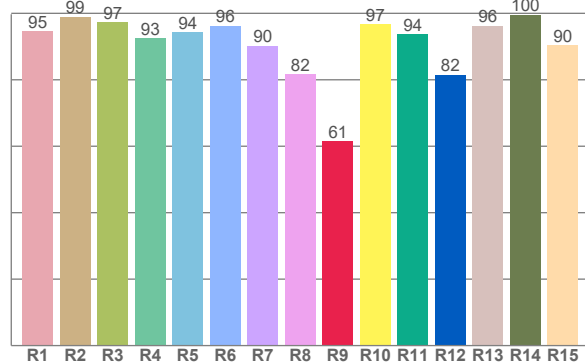




TM30: 90.7



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
94.5	99.0	97.3	92.5	94.3	96.3	90.2	81.6	61.5	96.6	93.8	81.5	96.2	99.5	90.5

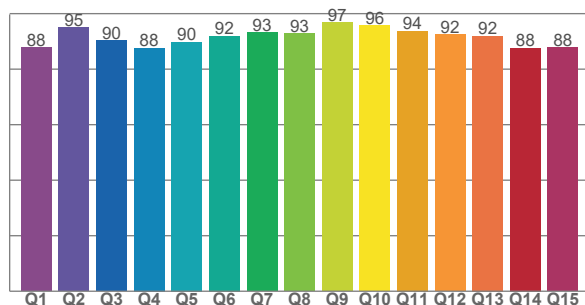
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.6	92.3	92.6	93.9	93.0	96.2	90.7	94.9	90.1	86.2	88.2	90.1	90.4	87.1	87.5	85.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.8	94.9	90.4	87.7	89.8	91.9	93.1	92.8	96.8	95.7	93.8	92.4	91.9	87.5	87.7

CQS: 91.0



## 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	$\Delta uv$
3026 K	93.2	61.5	90.7	97.6	91.0	0.433	0.398	0.250	0.346	-0.0018

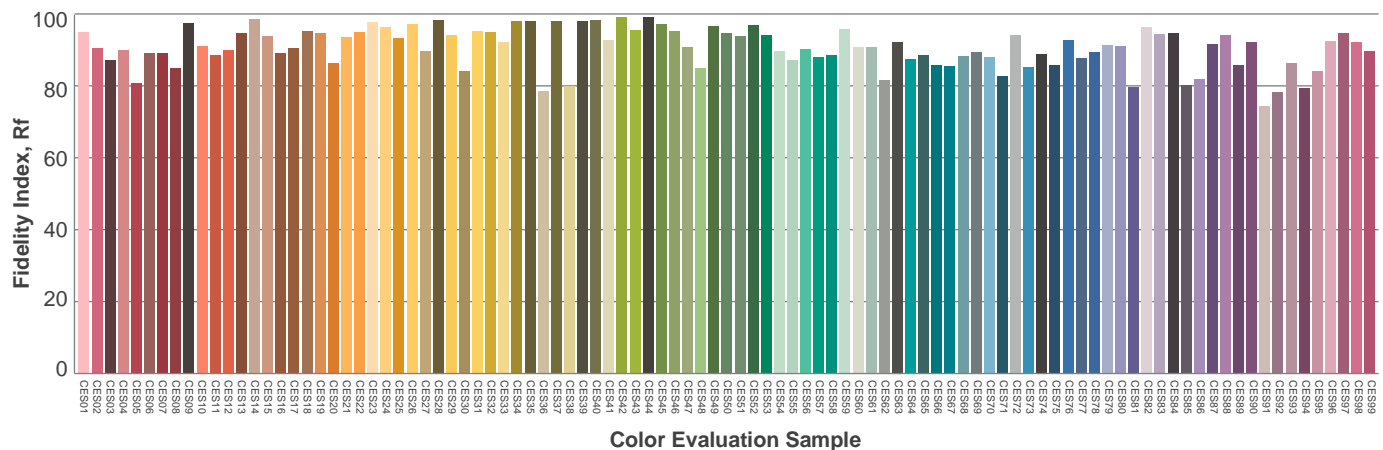
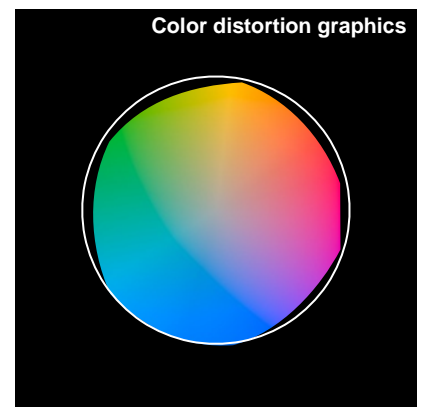
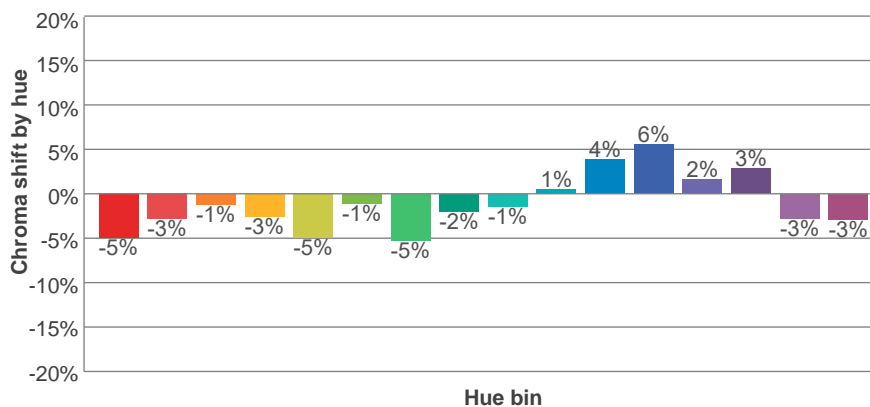
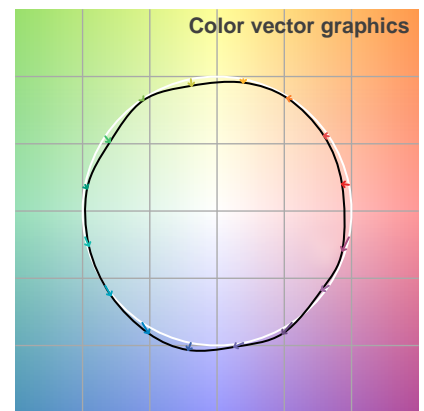
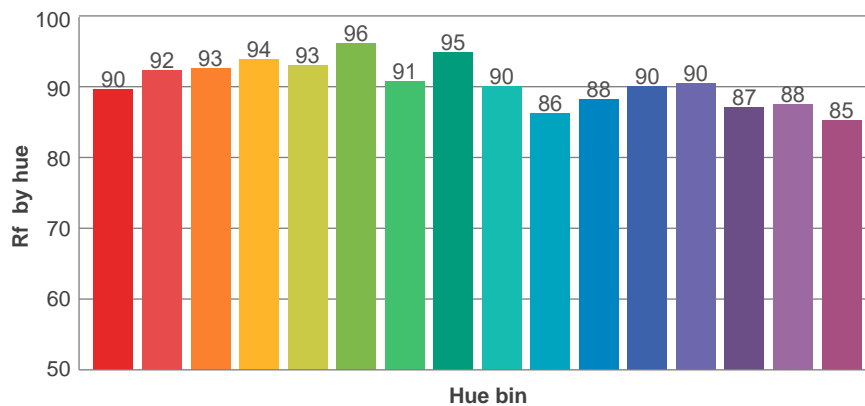
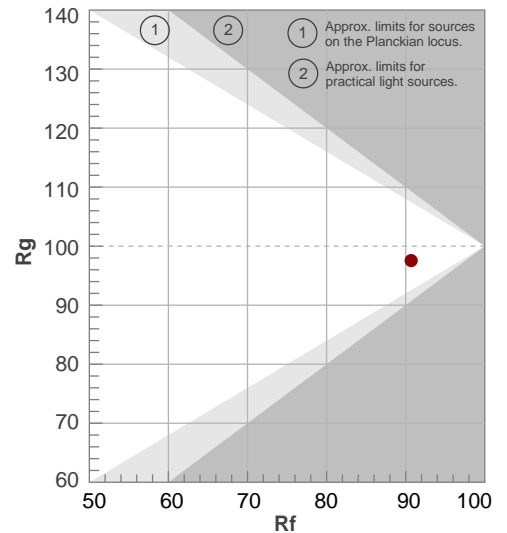
**Rf 90.7**

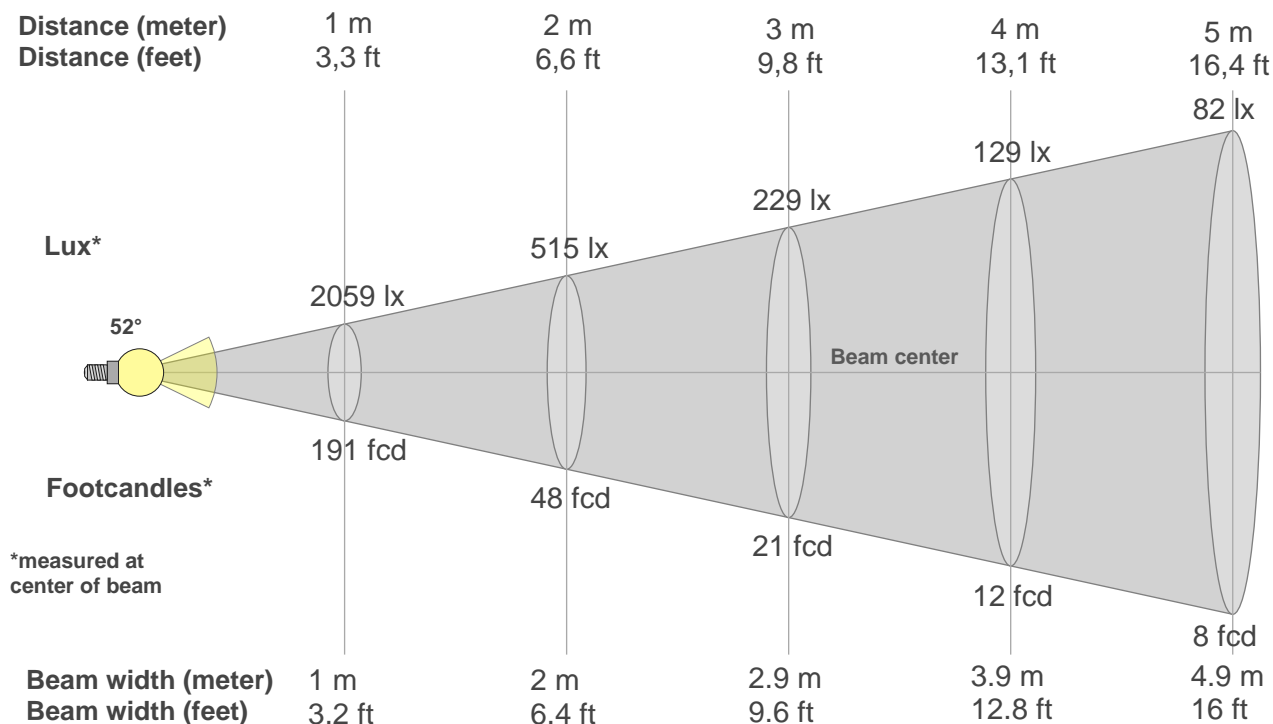
Fidelity index Rf

**Rg 97.6**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	2%
2	92	-3%	2%
3	93	-1%	3%
4	94	-3%	0%
5	93	-5%	0%
6	96	-1%	0%
7	91	-5%	2%
8	95	-2%	2%
9	90	-1%	7%
10	86	1%	8%
11	88	4%	8%
12	90	6%	-1%
13	90	2%	-7%
14	87	3%	-10%
15	88	-3%	-6%
16	85	-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
2059lx	515lx	229lx	129lx	82lx	57lx	42lx	32lx	25lx	21lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx
191.3fcd	47.8fcd	21.3fcd	12fcd	7.7fcd	5.3fcd	3.9fcd	3fcd	2.4fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.7fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd

#### Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2059	2004	1847	1616	1346	1074	826	614	440	305	202	120	64	34	18	8	2	1	0	0
100%	97%	90%	79%	65%	52%	40%	30%	21%	15%	10%	6%	3%	2%	1%	0%	0%	0%	0%	0%

#### Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2059	2004	1851	1627	1362	1091	842	628	453	316	211	127	68	35	19	8	2	1	1	0
100%	97%	90%	79%	66%	53%	41%	31%	22%	15%	10%	6%	3%	2%	1%	0%	0%	0%	0%	0%

#### Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2059	2004	1847	1616	1346	1074	826	614	440	305	202	120	64	34	18	8	2	1	0	0
100%	97%	90%	79%	65%	52%	40%	30%	21%	15%	10%	6%	3%	2%	1%	0%	0%	0%	0%	0%

#### Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
2059	2004	1851	1627	1362	1091	842	628	453	316	211	127	68	35	19	8	2	1	1	0
100%	97%	90%	79%	66%	53%	41%	31%	22%	15%	10%	6%	3%	2%	1%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
52°	100.1°	123.8°	97.5%	86.3%