

Light efficiency:

71 Lumen/Watt

Light quality:

CRI: 93.2

Color temperature:

2978 K

Output: 1748 lm

Peak: 8032 cd

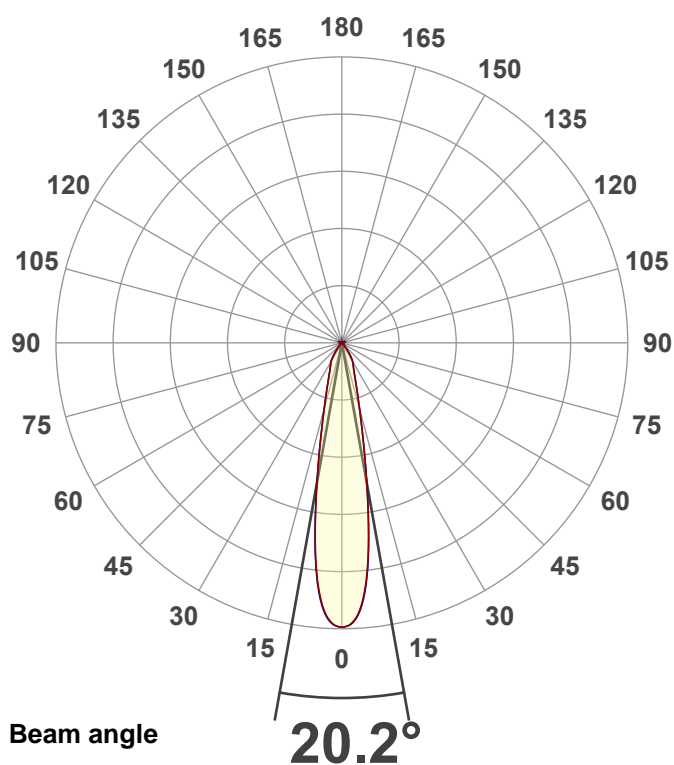
Power: 24.7 W

PF: 0.98



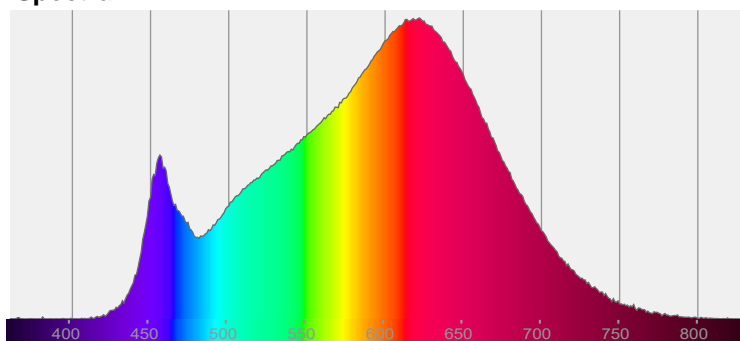
NU4-RD-TW-20LM-2765-95-20D-CL-WH-WH

Date and time:  
3/24/2023 3:35:18 PM

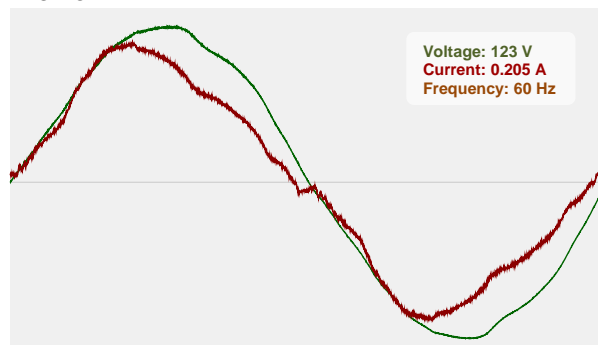


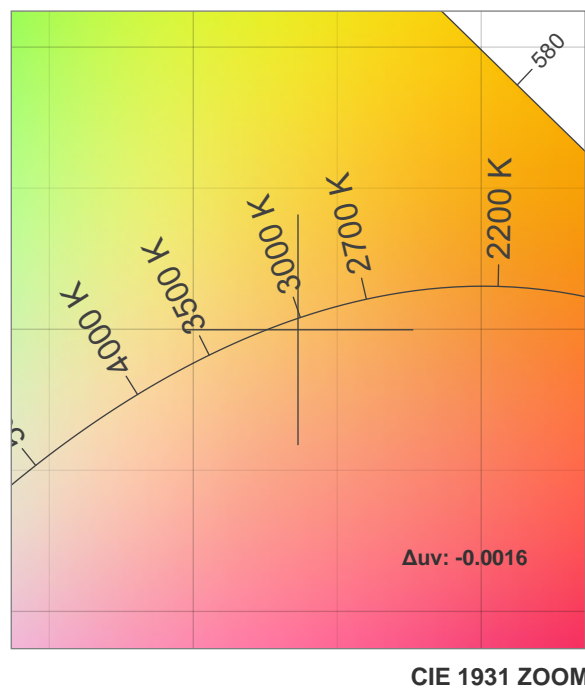
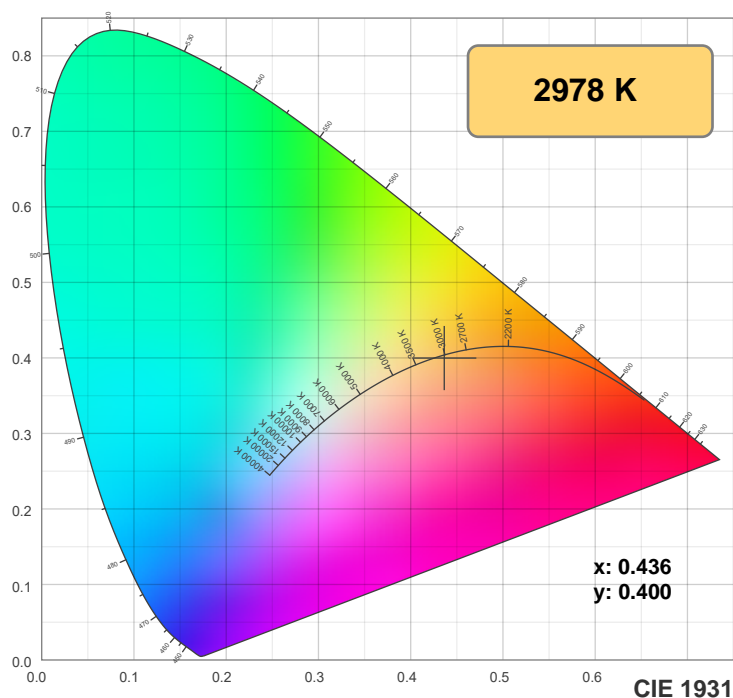
CIE 1931  
x: 0.436  
y: 0.400

Spectra

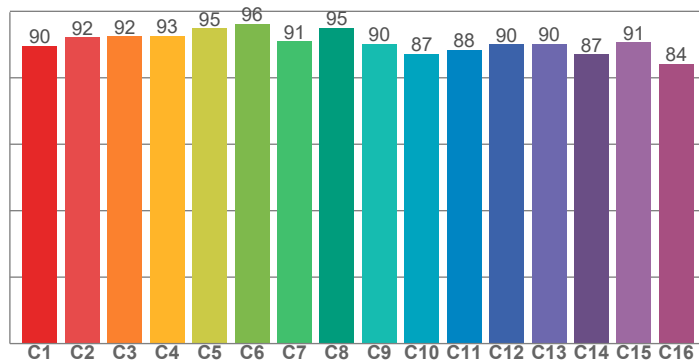


Power

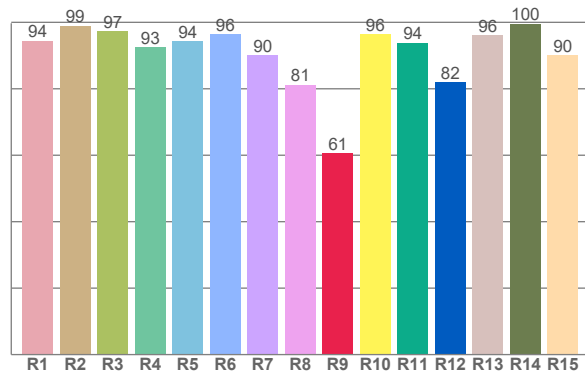




TM30: 90.8



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
94.4	98.9	97.3	92.6	94.2	96.3	90.1	81.2	60.5	96.5	93.9	82.0	96.1	99.6	90.2

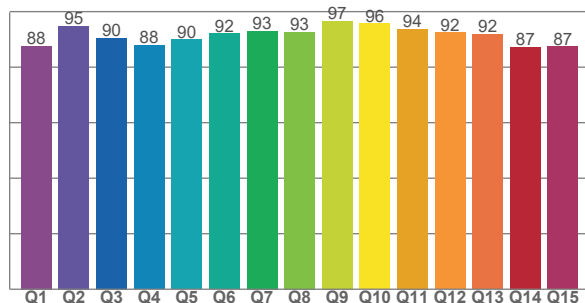
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.6	92.2	92.5	92.7	94.9	96.2	91.0	95.1	90.3	87.1	88.5	90.0	90.3	87.0	90.6	84.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.7	94.8	90.5	87.9	90.0	92.1	93.1	92.7	96.6	95.7	93.8	92.4	91.8	87.3	87.5

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	Δuv
2978 K	93.2	60.5	90.8	97.5	91.0	0.436	0.400	0.252	0.346	-0.0016

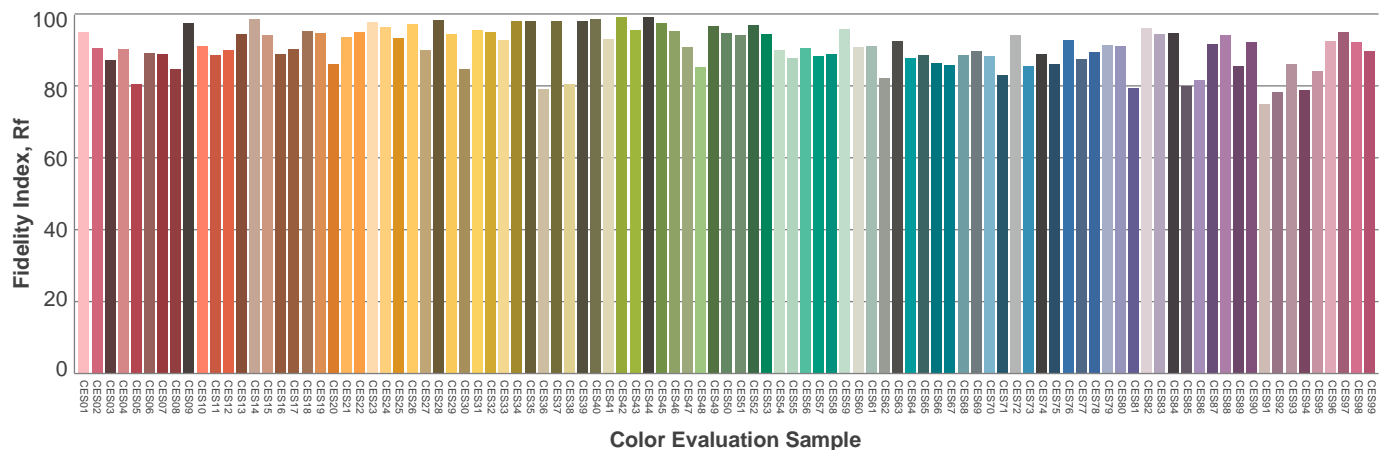
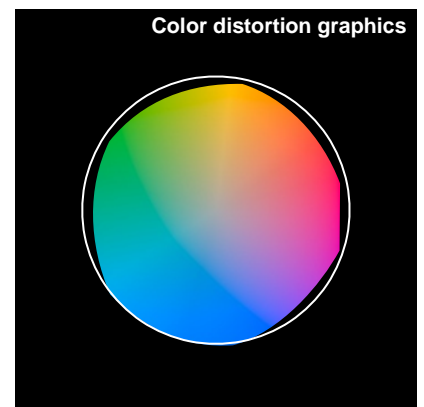
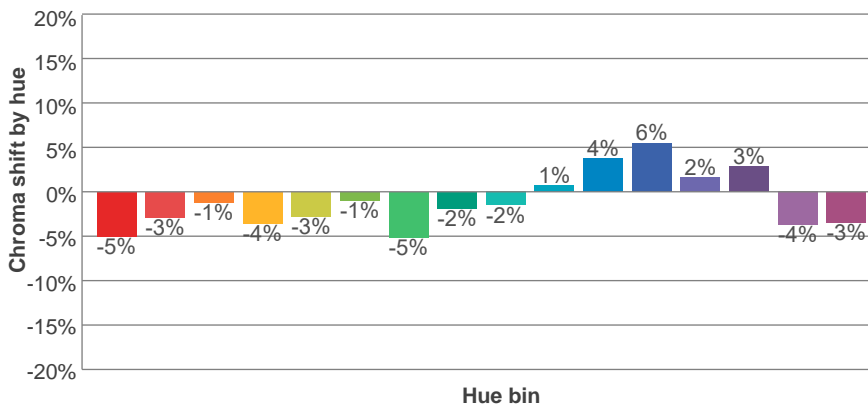
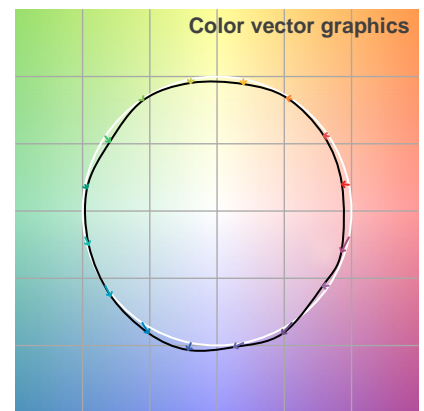
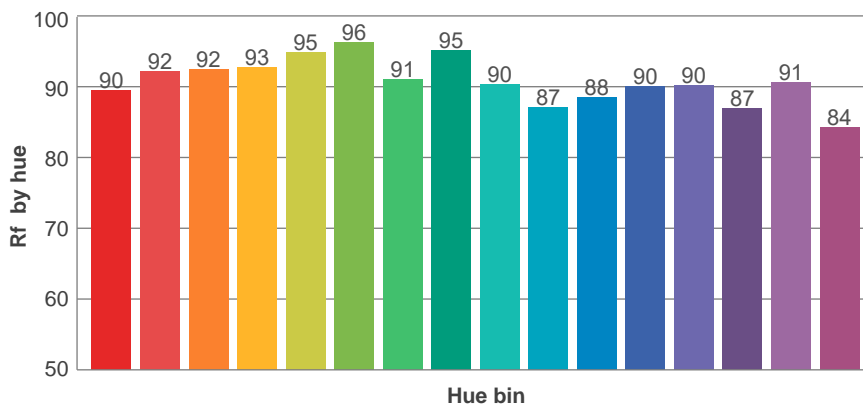
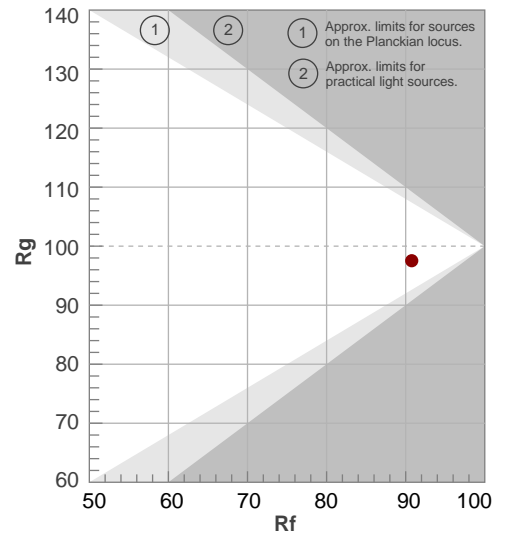
**Rf 90.8**

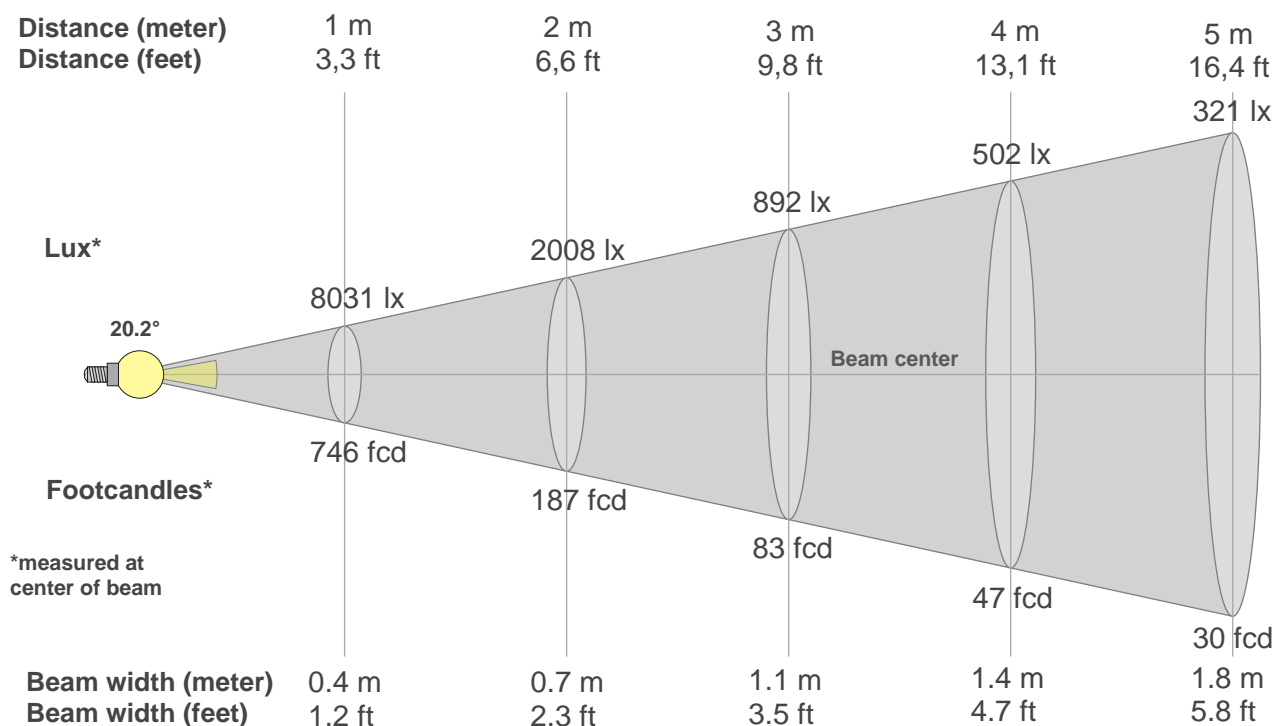
Fidelity index Rf

**Rg 97.5**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	1%
2	92	-3%	3%
3	92	-1%	3%
4	93	-4%	-1%
5	95	-3%	1%
6	96	-1%	0%
7	91	-5%	2%
8	95	-2%	2%
9	90	-2%	6%
10	87	1%	8%
11	88	4%	8%
12	90	6%	-1%
13	90	2%	-7%
14	87	3%	-10%
15	91	-4%	-3%
16	84	-3%	-12%





#### 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
8031lx	2008lx	892lx	502lx	321lx	223lx	164lx	125lx	99lx	80lx	66lx	56lx	48lx	41lx	36lx	31lx	28lx	25lx	22lx	20lx
746.1fc	186.5fc	82.9fc	46.6fc	29.8fc	20.7fc	15.2fc	11.7fc	9.2fc	7.5fc	6.2fc	5.2fc	4.4fc	3.8fc	3.3fc	2.9fc	2.6fc	2.3fc	2.1fc	1.9fc

#### 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°
8031	7917	7500	6656	5412	4073	2987	2220	1708	1362	1120	947	825	735	669	605	515	404	286	182
100%	99%	93%	83%	67%	51%	37%	28%	21%	17%	14%	12%	10%	9%	8%	8%	6%	5%	4%	2%

#### 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°
8031	7936	7544	6712	5441	4073	2982	2210	1705	1361	1118	948	829	741	673	603	509	404	290	185
100%	99%	94%	84%	68%	51%	37%	28%	21%	17%	14%	12%	10%	9%	8%	8%	6%	5%	4%	2%

#### 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°
8031	7917	7500	6656	5412	4073	2987	2220	1708	1362	1120	947	825	735	669	605	515	404	286	182
100%	99%	93%	83%	67%	51%	37%	28%	21%	17%	14%	12%	10%	9%	8%	8%	6%	5%	4%	2%

#### 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°
8031	7936	7544	6712	5441	4073	2982	2210	1705	1361	1118	948	829	741	673	603	509	404	290	185
100%	99%	94%	84%	68%	51%	37%	28%	21%	17%	14%	12%	10%	9%	8%	8%	6%	5%	4%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.2°	48.9°	75.2°	99.4%	99.2%