

Light efficiency:

103 Lumen/Watt

Light quality:

CRI: 81.6

Color temperature:

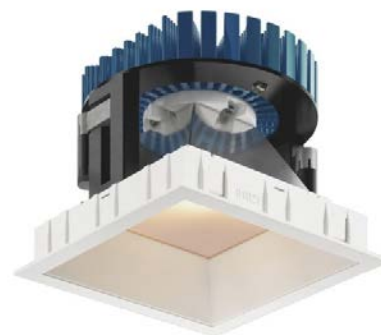
2981 K

Output: 3805 lm

Peak: 2216 cd

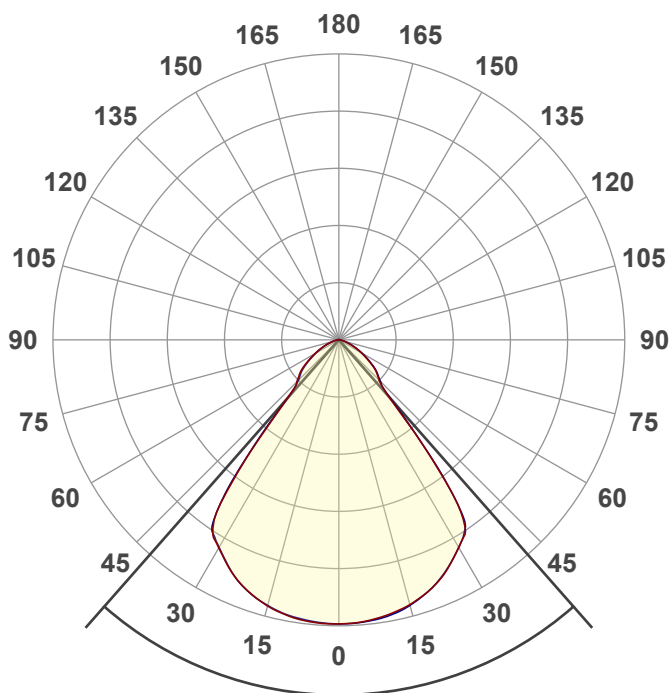
Power: 37.1 W

PF: 0.98



NU4-QD-SW-40LM-30K-80-WH80-WH-WH

Date and time:  
9/14/2022 9:28:12 AM



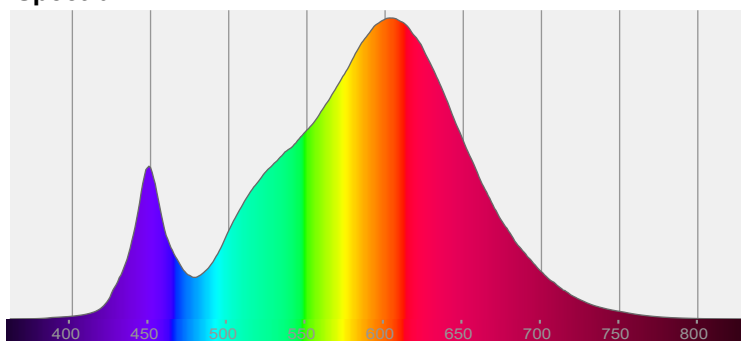
Beam angle

82.7°

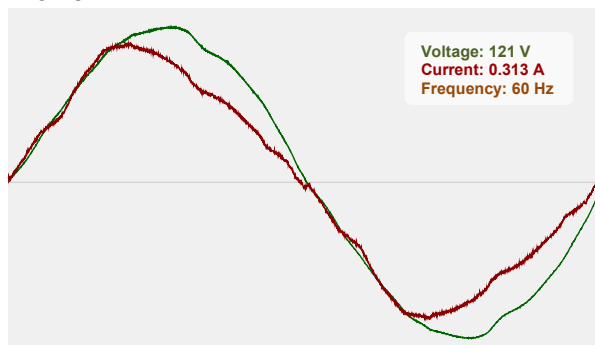


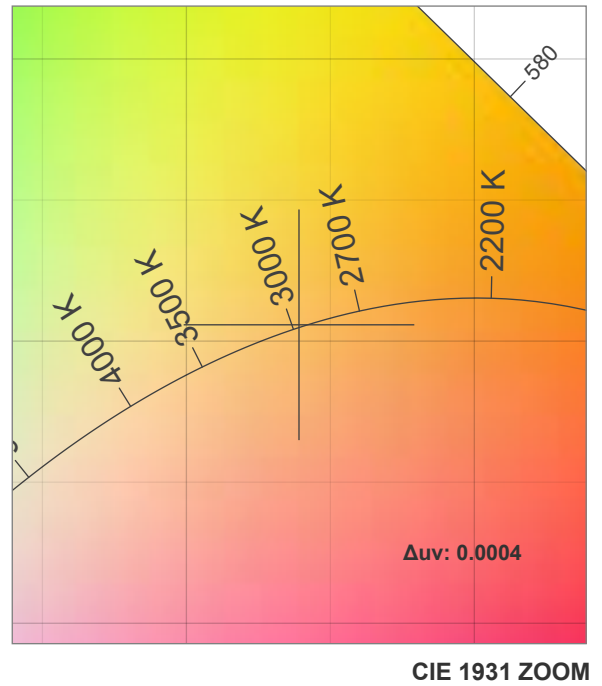
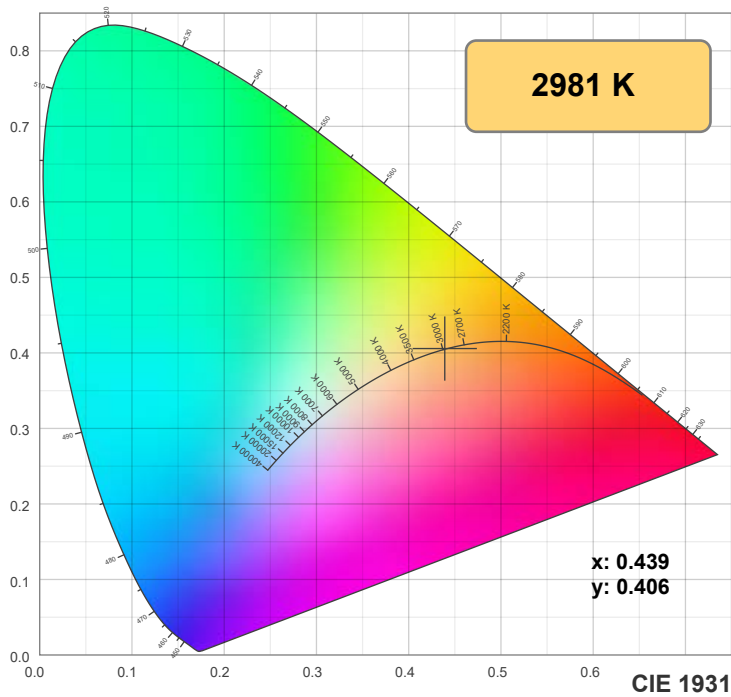
CIE 1931  
x: 0.439  
y: 0.406

Spectra

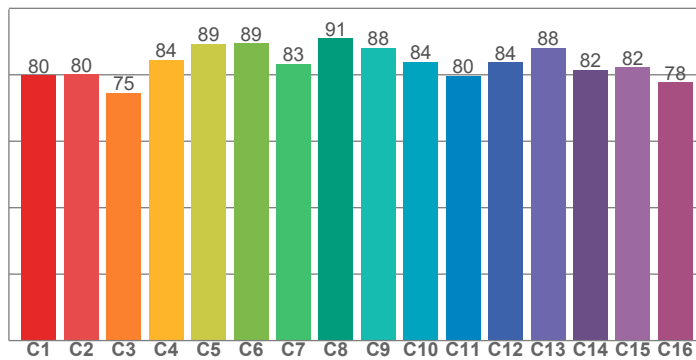


Power

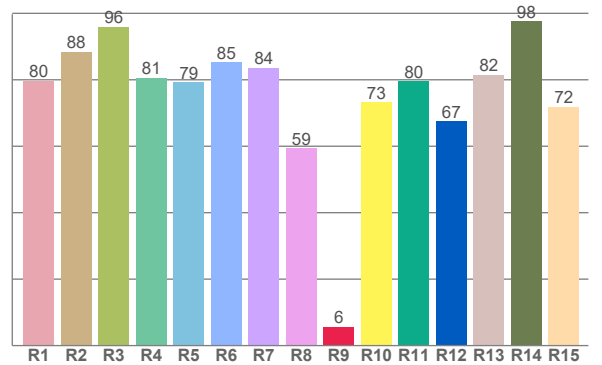




TM30: 83.3



CRI: 81.6 (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
79.7	88.4	96.0	80.7	79.3	85.4	83.7	59.4	5.7	73.3	79.7	67.5	81.5	97.6	71.9

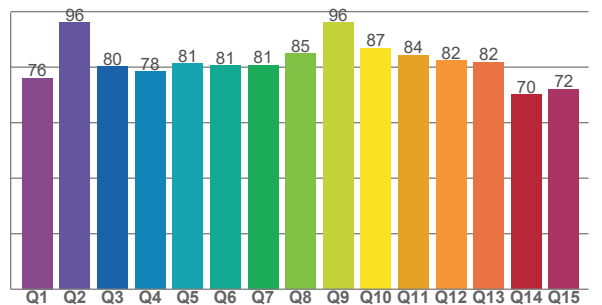
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.8	80.1	74.5	84.4	89.3	89.4	83.3	91.0	88.1	83.9	79.6	83.7	88.1	81.5	82.2	77.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.0	96.1	80.2	78.5	81.2	80.5	80.8	84.9	96.0	87.0	84.3	82.4	81.8	70.1	72.0

CQS: 80.7



## 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
2981 K	81.6	5.7	83.3	97.5	80.7	0.439	0.406	0.251	0.348	0.0004

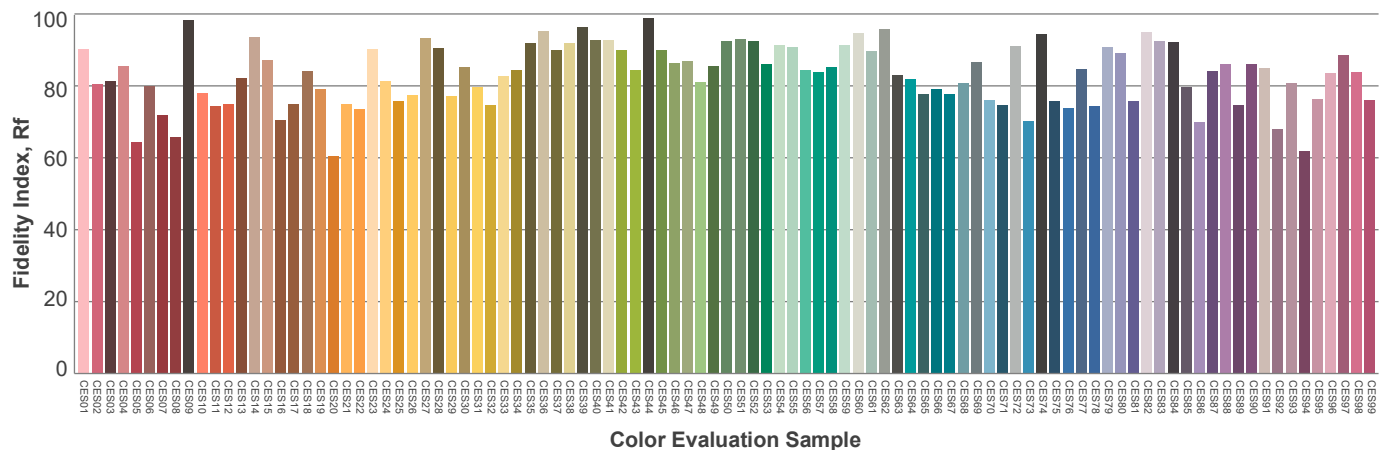
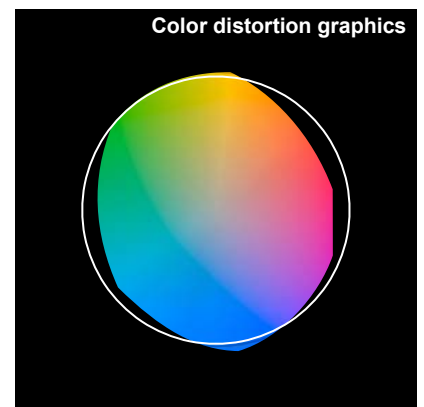
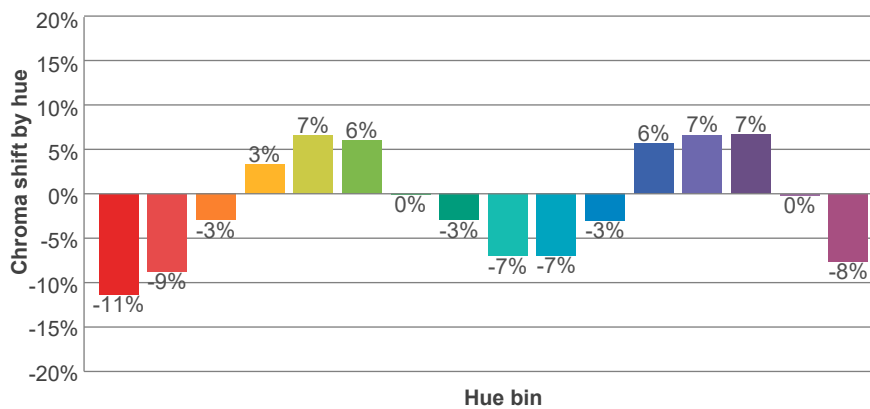
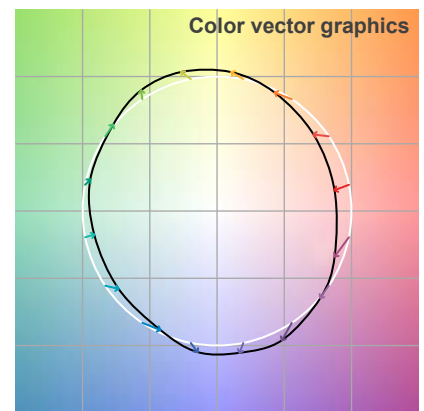
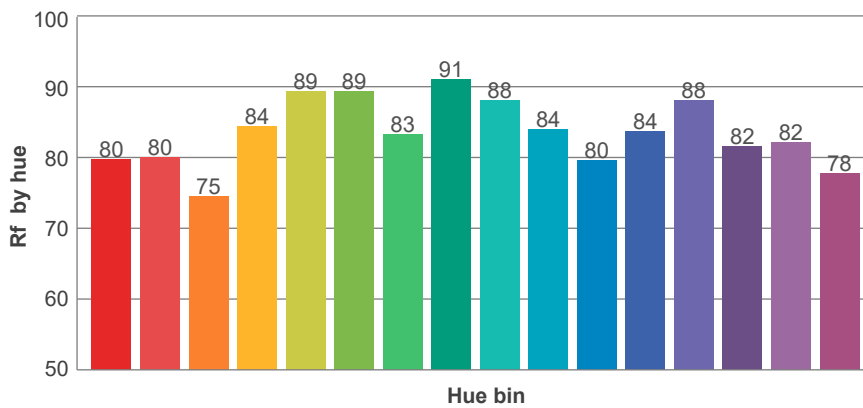
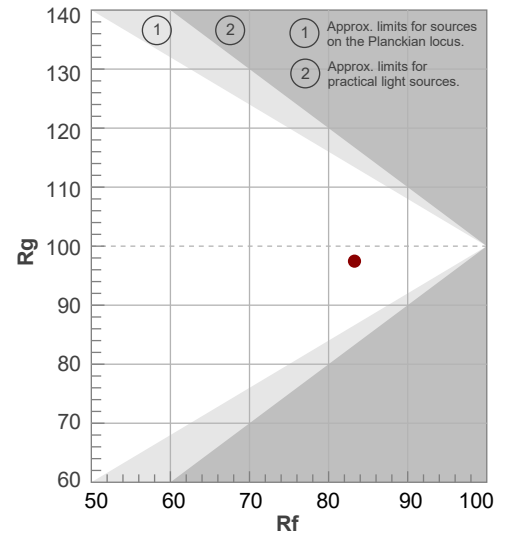
**Rf 83.3**

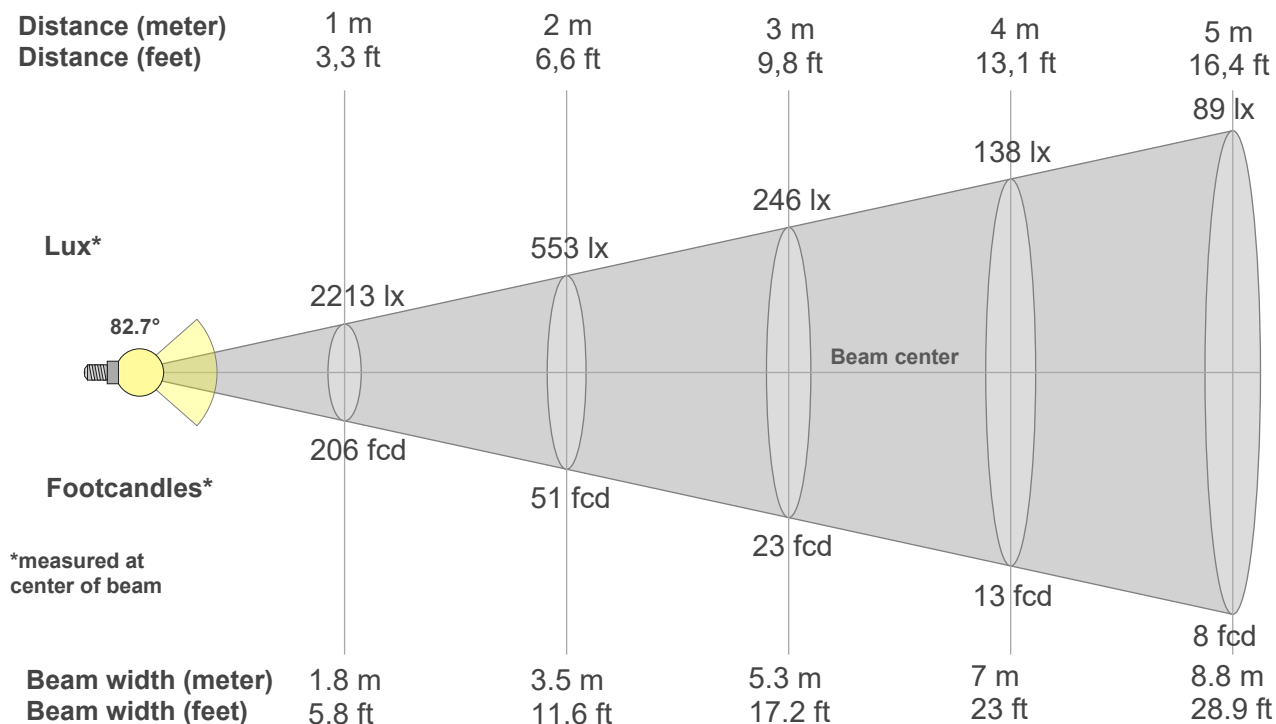
Fidelity index Rf

**Rg 97.5**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-2%
2	80	-9%	7%
3	75	-3%	13%
4	84	3%	10%
5	89	7%	6%
6	89	6%	-3%
7	83	0%	-11%
8	91	-3%	-5%
9	88	-7%	-1%
10	84	-7%	7%
11	80	-3%	14%
12	84	6%	6%
13	88	7%	-4%
14	82	7%	-13%
15	82	0%	-11%
16	78	-8%	-16%





#### 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
2213lx	553lx	246lx	138lx	89lx	61lx	45lx	35lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	6lx
205.6fcd	51.4fcd	22.8fcd	12.9fcd	8.2fcd	5.7fcd	4.2fcd	3.2fcd	2.5fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	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°
2213	2204	2177	2136	2074	1984	1868	1651	804	449	375	282	200	132	78	46	23	6	0	0
100%	100%	98%	97%	94%	90%	84%	75%	36%	20%	17%	13%	9%	6%	4%	2%	1%	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°
2213	2207	2186	2141	2073	1980	1867	1695	819	459	382	293	210	142	86	49	26	9	1	0
100%	100%	99%	97%	94%	89%	84%	77%	37%	21%	17%	13%	10%	6%	4%	2%	1%	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°
2213	2210	2189	2146	2080	1988	1872	1659	796	465	392	301	217	148	90	52	29	11	1	0
100%	100%	99%	97%	94%	90%	85%	75%	36%	21%	18%	14%	10%	7%	4%	2%	1%	1%	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°
2213	2204	2184	2142	2081	1987	1867	1667	831	450	375	287	205	139	85	48	26	10	0	0
100%	100%	99%	97%	94%	90%	84%	75%	38%	20%	17%	13%	9%	6%	4%	2%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
82.7°	119.6°	148.3°	94.4%	81.5%