

Light efficiency:

90 Lumen/Watt

Light quality:

CRI: 91.9

Color temperature:

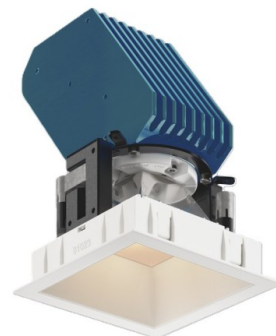
3032 K

Output: 1428 lm

Peak: 1231 cd

Power: 15.9 W

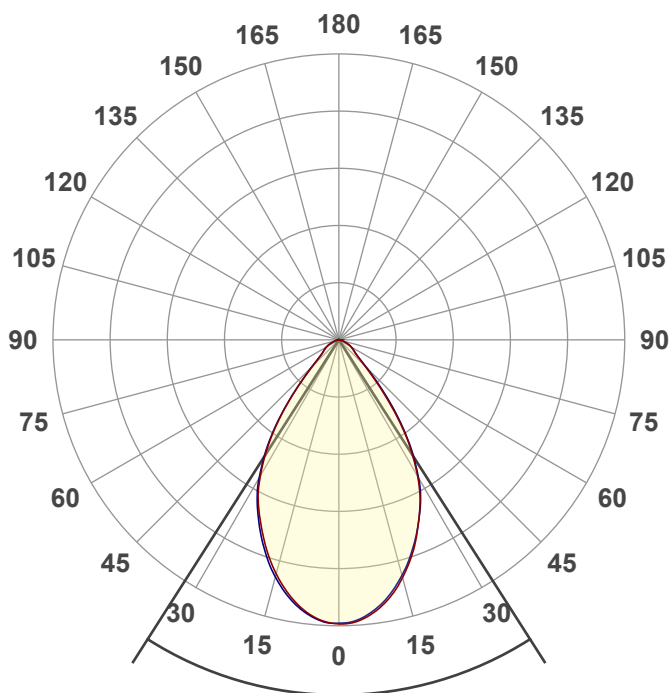
PF: 0.96



NU3-QD-SW-20LM-30K-90-HE60-WH-WH

Date and time:

9/23/2022 3:19:17 PM



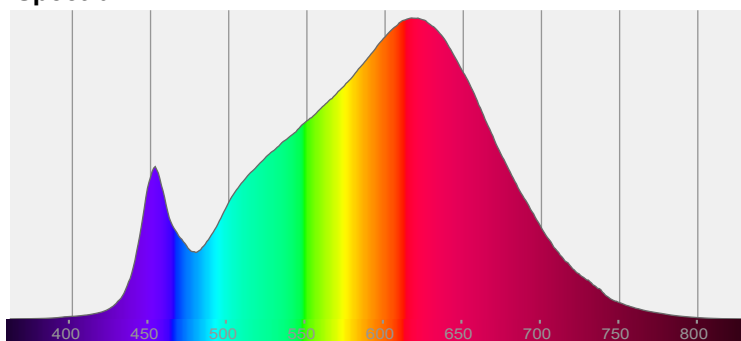
Beam angle

65.1°

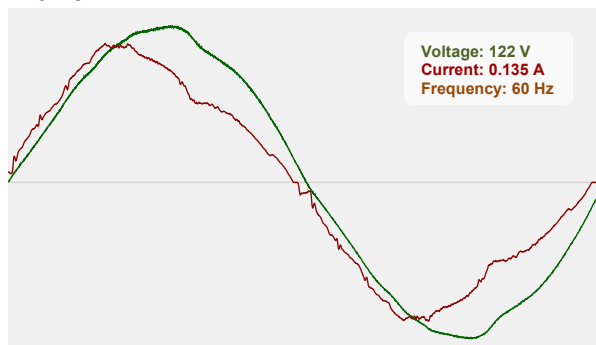


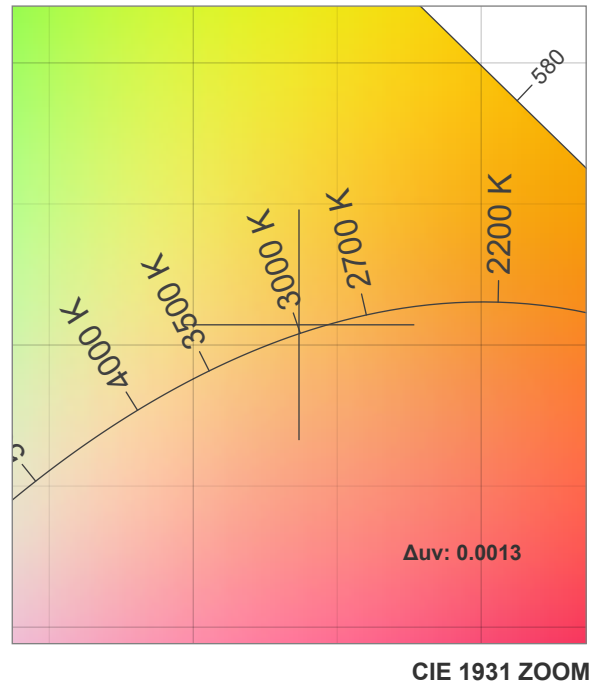
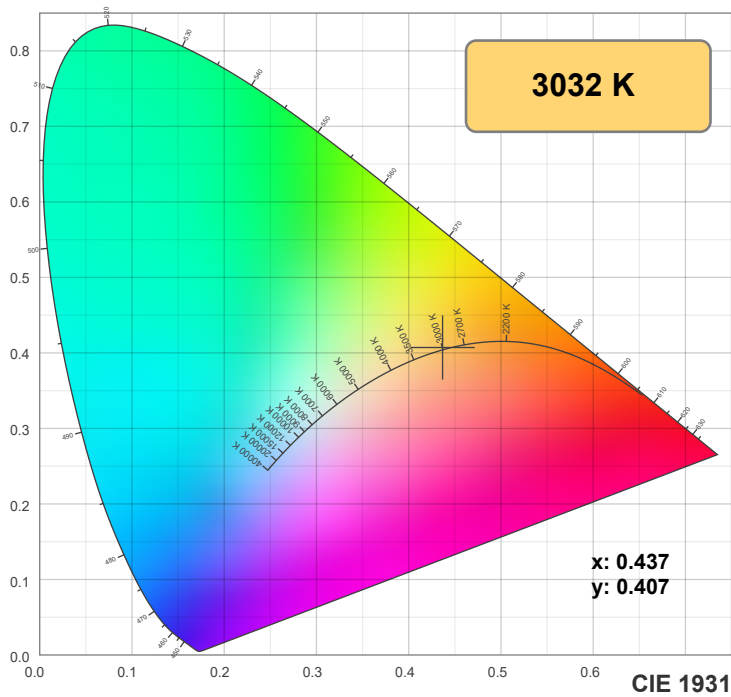
CIE 1931
x: 0.437
y: 0.407

Spectra

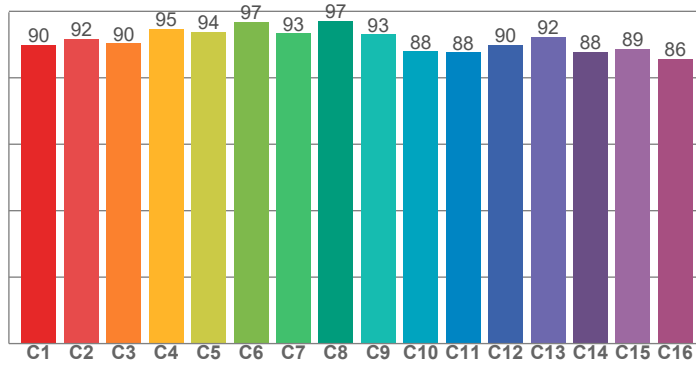


Power

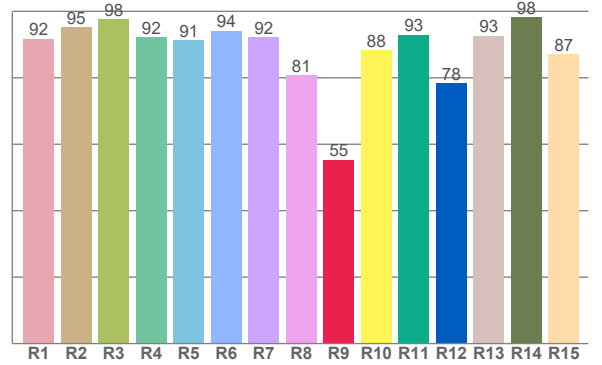




TM30: 91.4



CRI: 91.9 (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
91.7	95.3	97.7	92.2	91.2	94.2	92.3	80.8	55.3	88.2	92.9	78.3	92.6	98.1	87.1

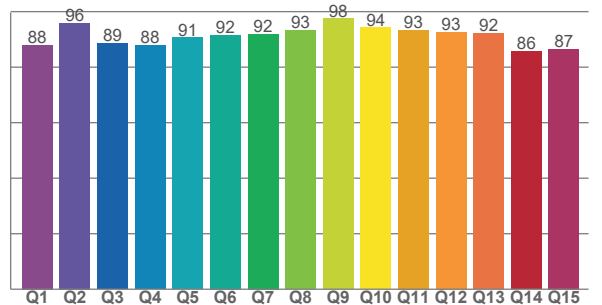
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.9	91.7	90.3	94.8	93.7	96.8	93.3	97.1	93.1	87.9	87.7	89.9	92.4	87.8	88.7	85.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88.0	95.9	88.6	87.9	90.6	91.5	91.9	93.3	97.5	94.3	93.4	92.7	92.2	85.7	86.6

CQS: 90.6



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
3032 K	91.9	55.3	91.4	98.3	90.6	0.437	0.407	0.249	0.348	0.0013

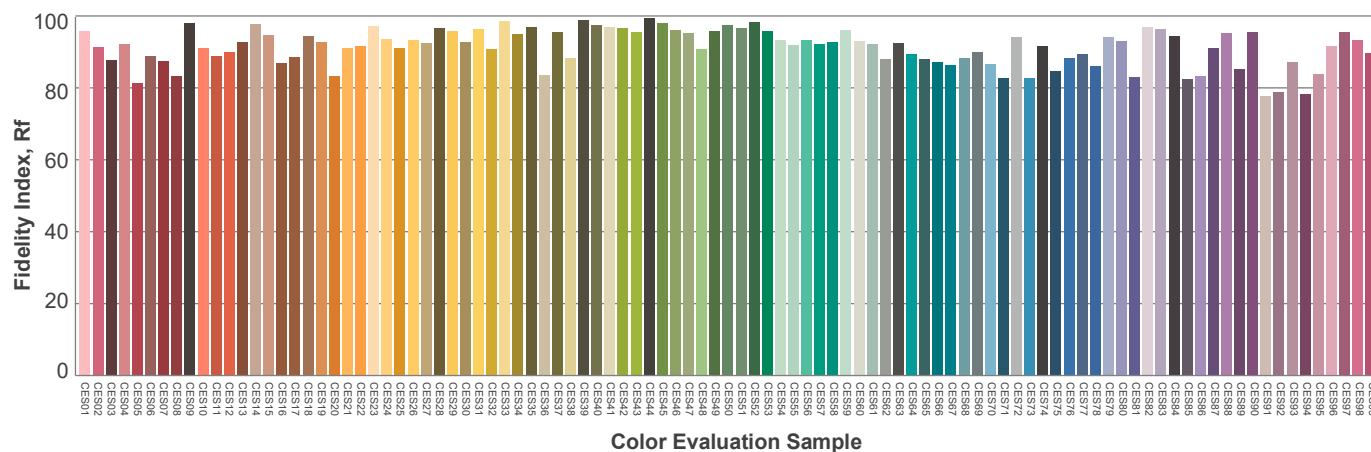
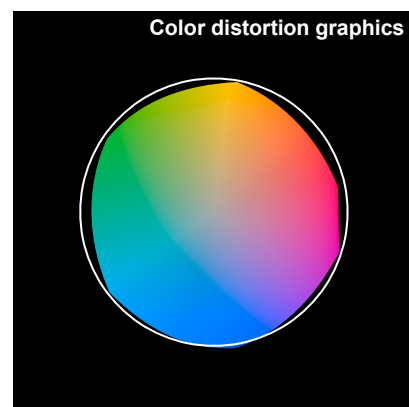
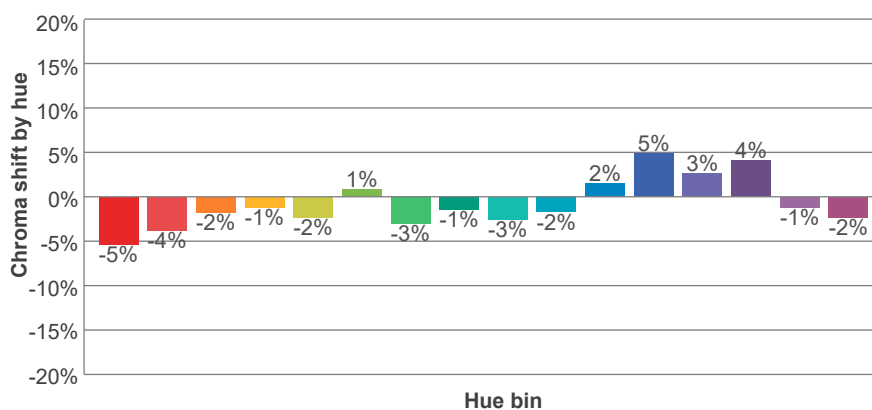
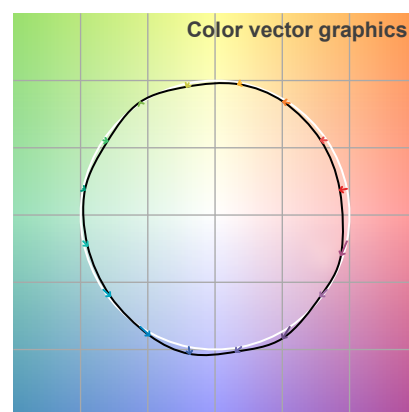
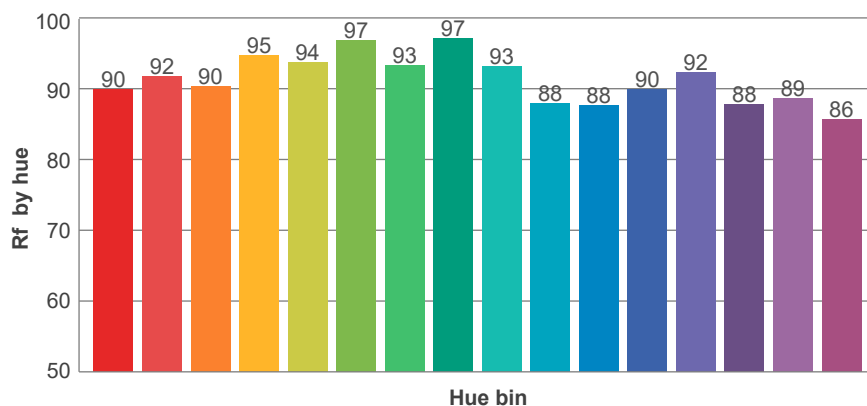
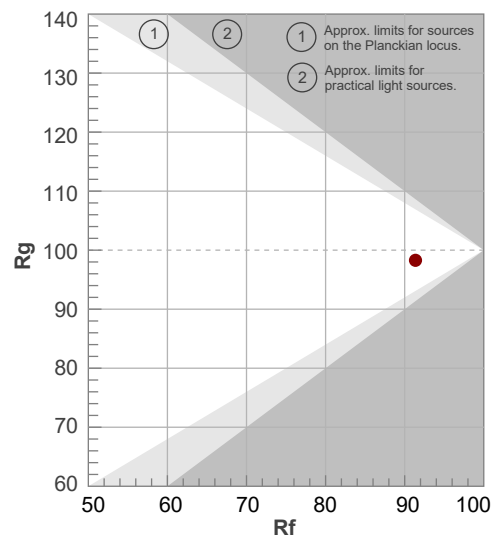
Rf 91.4

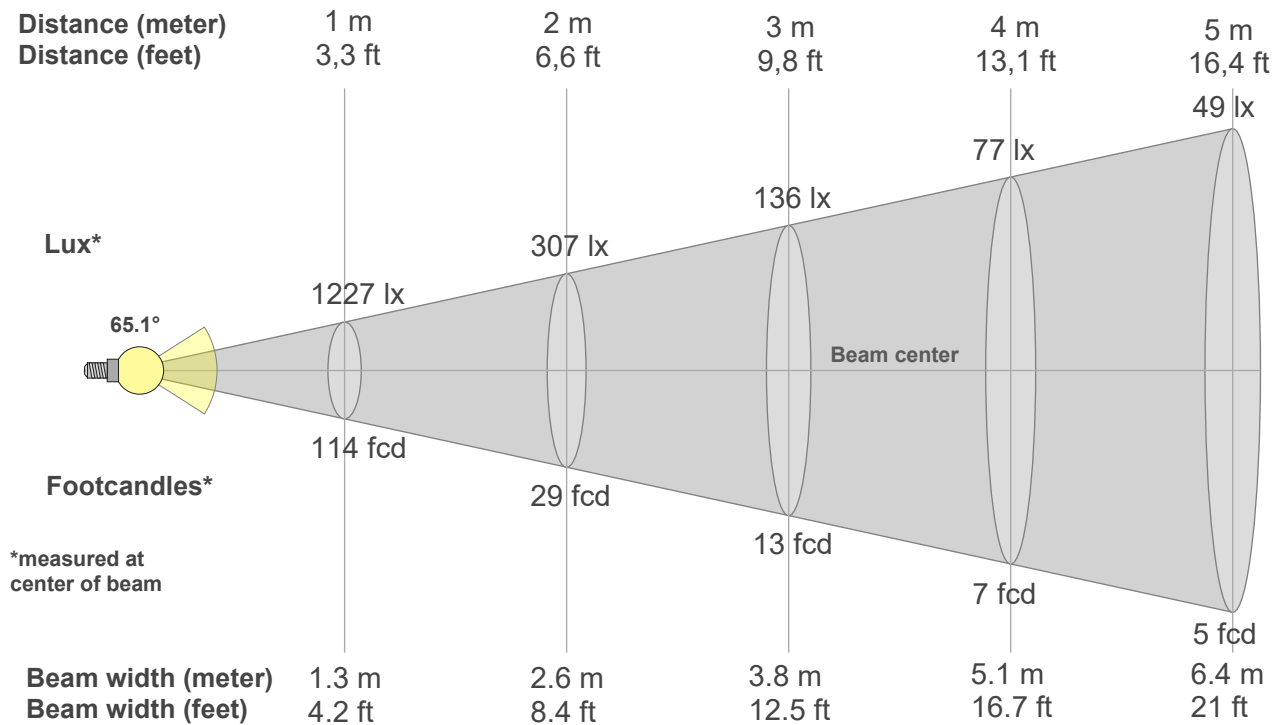
Fidelity index Rf

Rg 98.3

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	0%
2	92	-4%	3%
3	90	-2%	5%
4	95	-1%	2%
5	94	-2%	2%
6	97	1%	0%
7	93	-3%	-1%
8	97	-1%	0%
9	93	-3%	4%
10	88	-2%	7%
11	88	2%	9%
12	90	5%	2%
13	92	3%	-5%
14	88	4%	-9%
15	89	-1%	-7%
16	86	-2%	-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
1227lx	307lx	136lx	77lx	49lx	34lx	25lx	19lx	15lx	12lx	10lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx
114fcd	28.5fcd	12.7fcd	7.1fcd	4.6fcd	3.2fcd	2.3fcd	1.8fcd	1.4fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

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°
1227	1225	1217	1201	1180	1153	1121	1083	1042	999	953	901	850	799	744	681	612	541	463	382
100%	100%	99%	98%	96%	94%	91%	88%	85%	81%	78%	73%	69%	65%	61%	56%	50%	44%	38%	31%

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°
1227	1222	1211	1193	1170	1143	1110	1073	1033	990	945	898	850	802	750	688	619	549	473	396
100%	100%	99%	97%	95%	93%	90%	87%	84%	81%	77%	73%	69%	65%	61%	56%	50%	45%	39%	32%

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°
1227	1222	1212	1193	1168	1139	1104	1067	1026	982	935	887	840	792	742	678	612	541	466	389
100%	100%	99%	97%	95%	93%	90%	87%	84%	80%	76%	72%	68%	65%	60%	55%	50%	44%	38%	32%

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°
1227	1223	1214	1197	1175	1149	1117	1080	1040	997	950	902	853	803	750	688	619	550	473	393
100%	100%	99%	98%	96%	94%	91%	88%	85%	81%	77%	74%	69%	65%	61%	56%	50%	45%	39%	32%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
65.1°	99.5°	137.6°	95.7%	85.7%