

Light efficiency:

54 Lumen/Watt

Light quality:

CRI: 81.2

Color temperature:

3059 K

Output: 2065 lm

Peak: 7987 cd

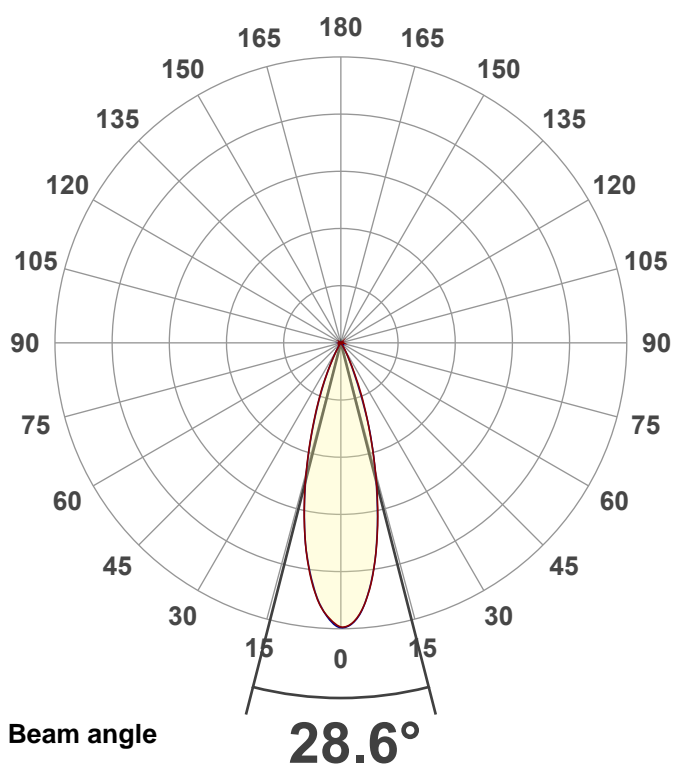
Power: 38.4 W

PF: 0.99



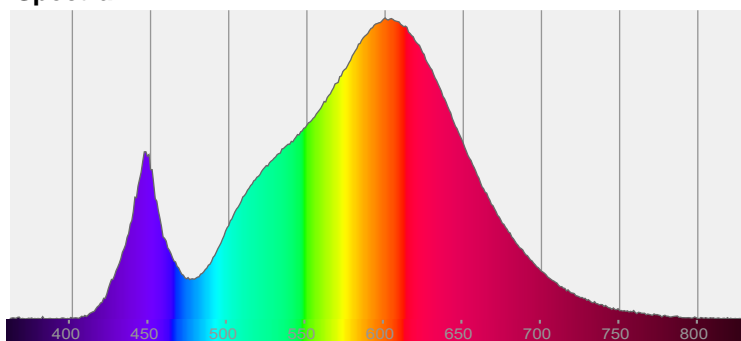
NU4-RAPH-SW-40LM-30K-80-35D-HCL-WH

Date and time:  
12/16/2021 10:23:55 AM

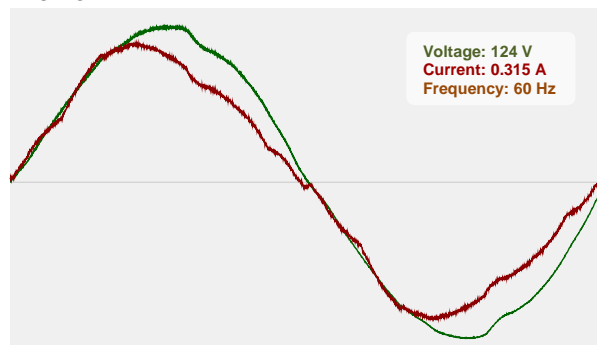


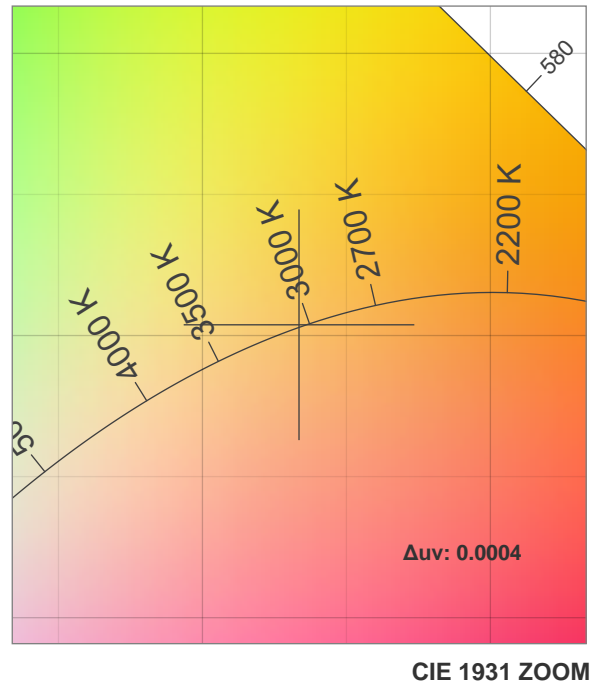
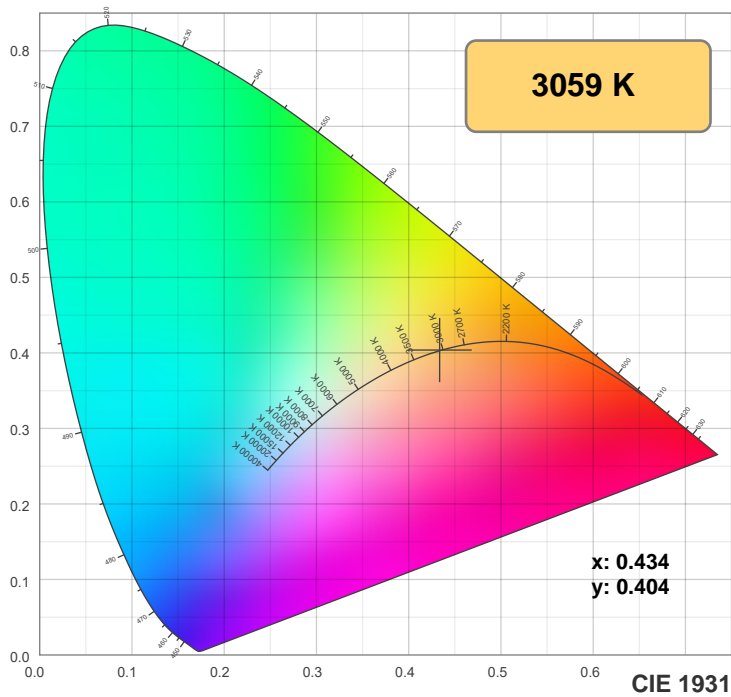
CIE 1931  
x: 0.434  
y: 0.404

Spectra

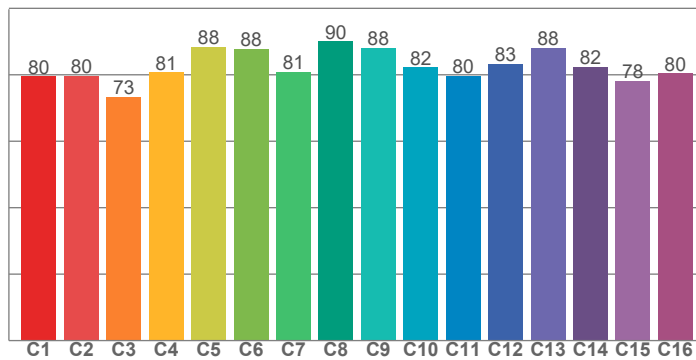


Power

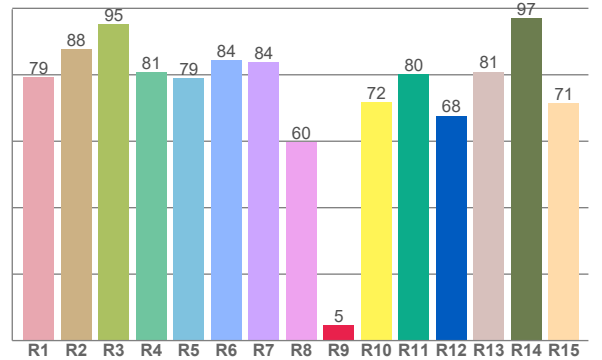




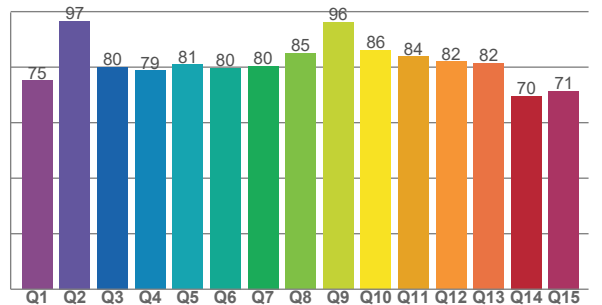
TM30: 82.6



CRI: 81.2 (R1-R8)



CQS: 80.3



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
79.3	87.6	95.2	80.8	79.0	84.3	83.8	59.7	4.6	71.7	80.1	67.7	80.9	97.1	71.5

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
79.6	79.6	73.4	80.7	88.5	87.8	81.0	90.0	88.2	82.2	79.7	83.2	88.1	82.3	78.2	80.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.2	96.6	80.1	78.7	81.0	79.7	80.5	85.0	96.1	86.3	83.8	82.0	81.5	69.6	71.4

## 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
3059 K	81.2	4.6	82.6	98.2	80.3	0.434	0.404	0.248	0.347	0.0004

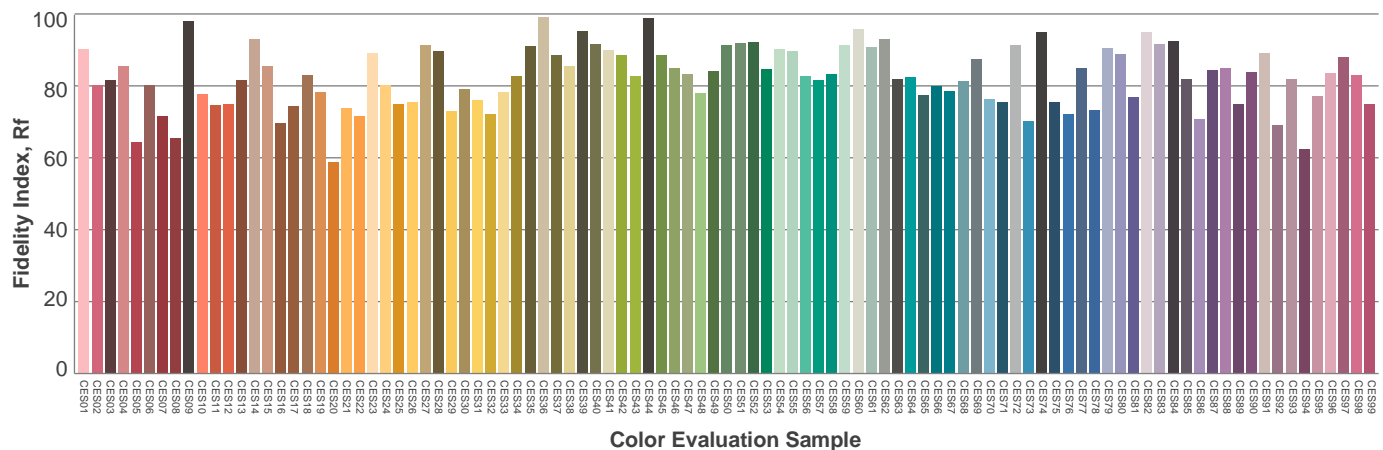
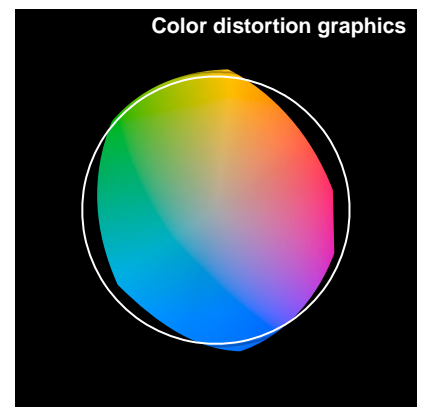
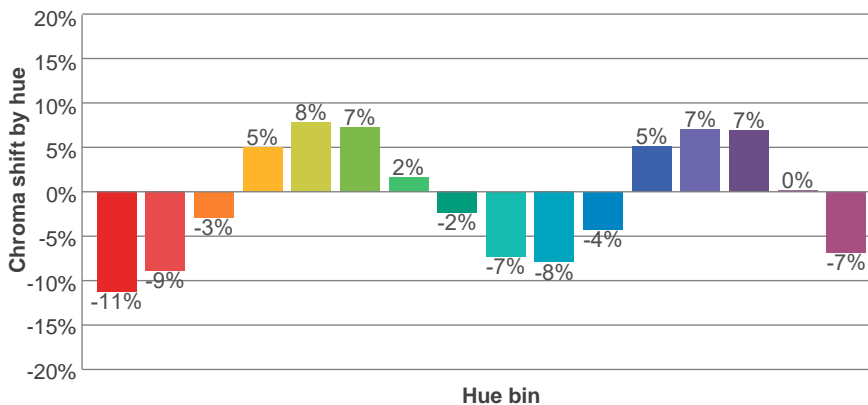
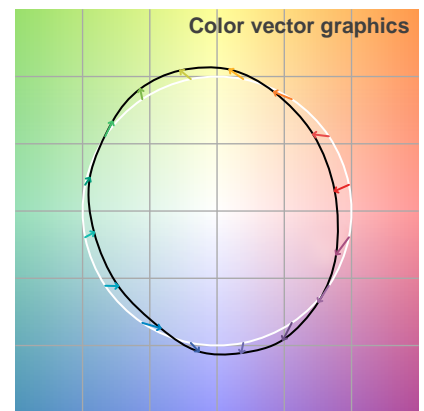
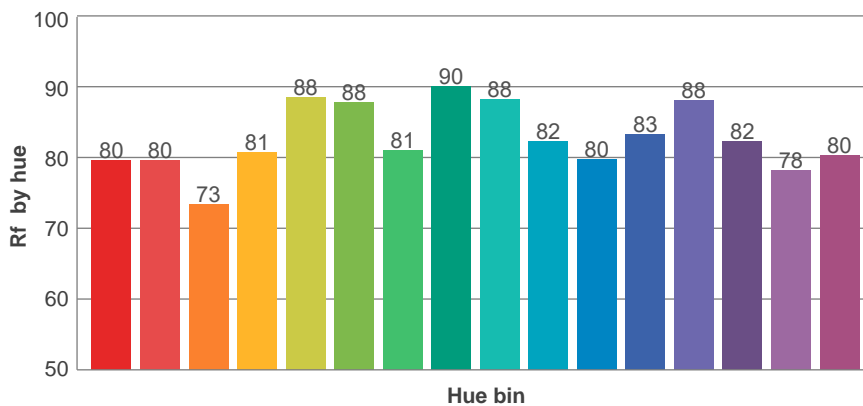
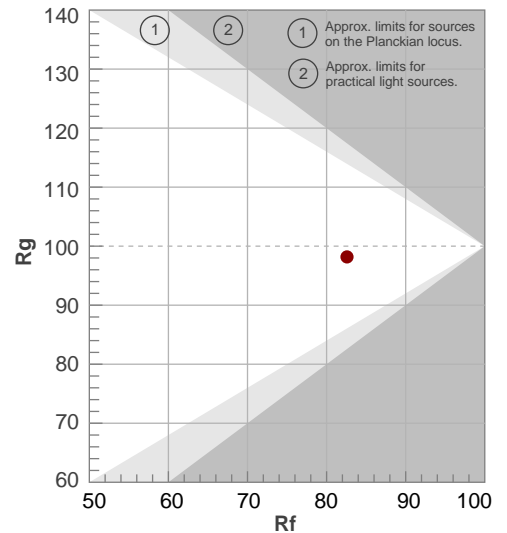
**Rf 82.6**

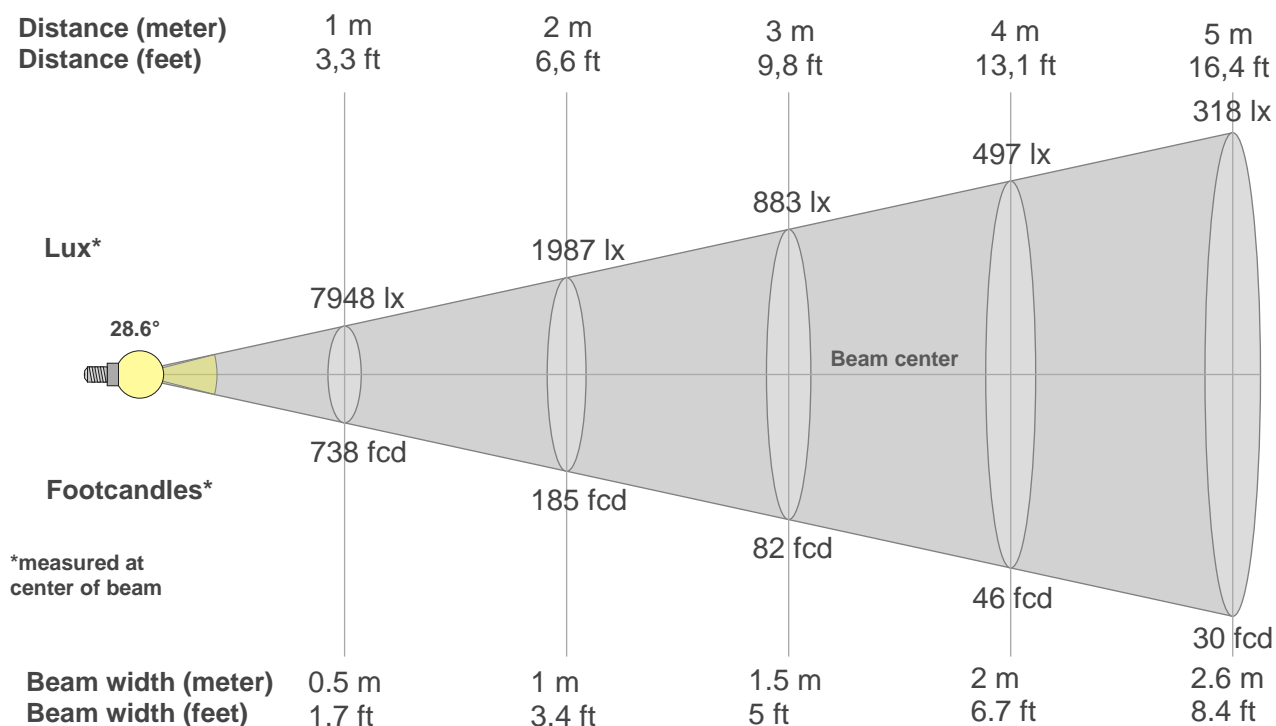
Fidelity index Rf

**Rg 98.2**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	80	-11%	-3%
2	80	-9%	8%
3	73	-3%	14%
4	81	5%	11%
5	88	8%	6%
6	88	7%	-3%
7	81	2%	-12%
8	90	-2%	-6%
9	88	-7%	-2%
10	82	-8%	6%
11	80	-4%	13%
12	83	5%	7%
13	88	7%	-3%
14	82	7%	-12%
15	78	0%	-14%
16	80	-7%	-14%





#### 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
7948lx	1987lx	883lx	497lx	318lx	221lx	162lx	124lx	98lx	79lx	66lx	55lx	47lx	41lx	35lx	31lx	28lx	25lx	22lx	20lx
738.4fcd	184.6fcd	82fcd	46.2fcd	29.5fcd	20.5fcd	15.1fcd	11.5fcd	9.1fcd	7.4fcd	6.1fcd	5.1fcd	4.4fcd	3.8fcd	3.3fcd	2.9fcd	2.6fcd	2.3fcd	2fcd	1.8fcd

#### 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°
7948	7861	7574	7109	6491	5759	4975	4162	3359	2629	1994	1443	949	601	378	227	124	59	25	11
100%	99%	95%	89%	82%	72%	63%	52%	42%	33%	25%	18%	12%	8%	5%	3%	2%	1%	0%	0%

#### 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°
7948	7889	7608	7102	6473	5737	4930	4114	3346	2633	1903	1284	831	529	311	165	81	36	16	8
100%	99%	96%	89%	81%	72%	62%	52%	42%	33%	24%	16%	10%	7%	4%	2%	1%	0%	0%	0%

#### 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°
7948	7762	7455	6989	6393	5702	4942	4156	3371	2661	2040	1508	1049	646	381	215	113	54	24	16
100%	98%	94%	88%	80%	72%	62%	52%	42%	33%	26%	19%	13%	8%	5%	3%	1%	1%	0%	0%

#### 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°
7948	7781	7444	6968	6368	5703	4911	4118	3341	2610	1962	1420	968	618	377	224	126	57	30	19
100%	98%	94%	88%	80%	72%	62%	52%	42%	33%	25%	18%	12%	8%	5%	3%	2%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
28.6°	49.5°	60.2°	99.8%	99.7%