

Light efficiency:

65 Lumen/Watt

Light quality:

CRI: 81.1

Color temperature:

3032 K

Output: 2481 lm

Peak: 20116 cd

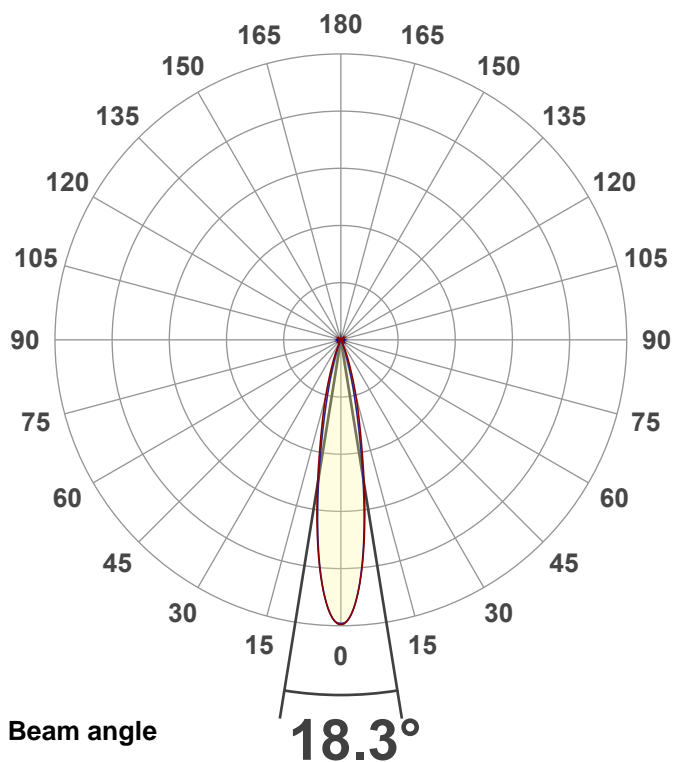
Power: 38.3 W

PF: 0.99



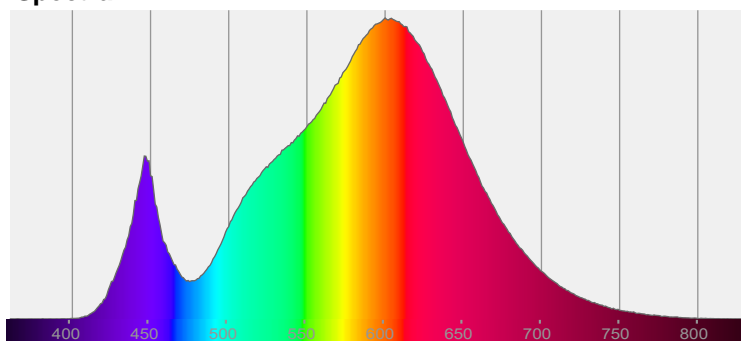
NU4-RAPH-SW-40LM-30K-80-20D-NL-WH

Date and time:  
12/15/2021 10:38:27 AM

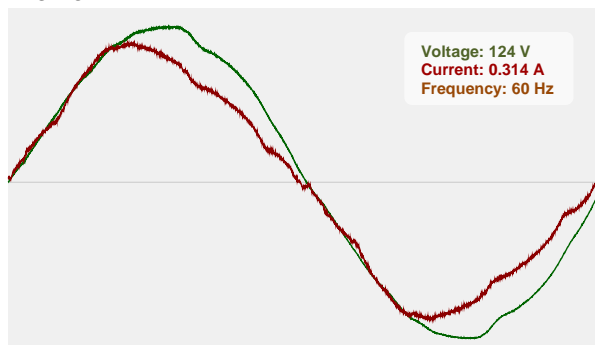


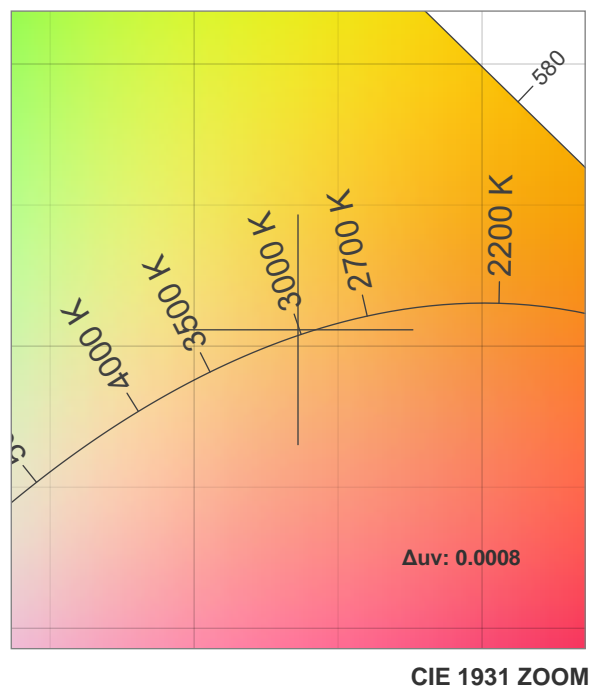
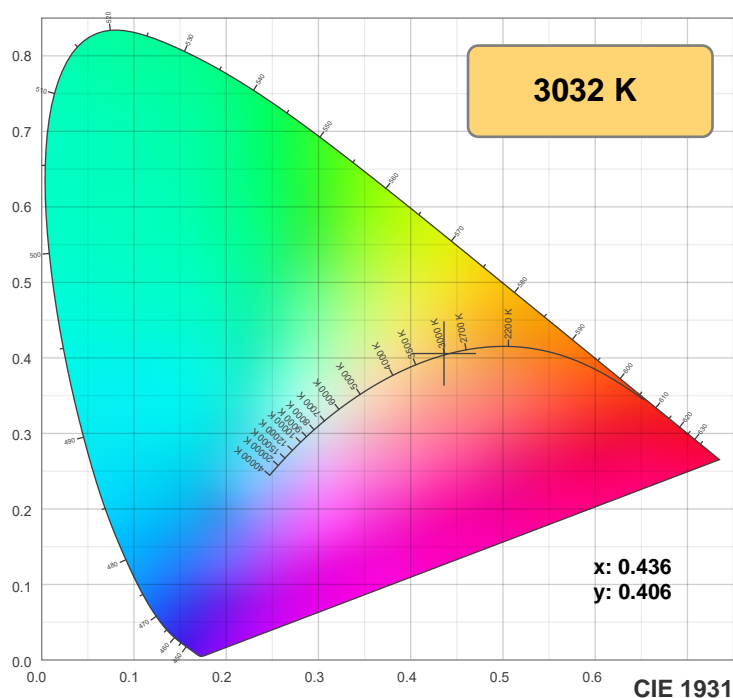
CIE 1931  
x: 0.436  
y: 0.406

Spectra

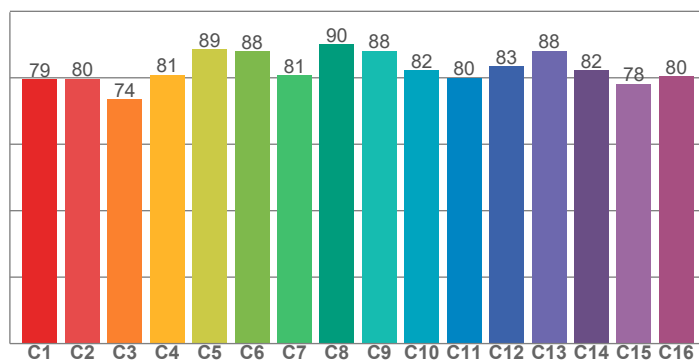


Power

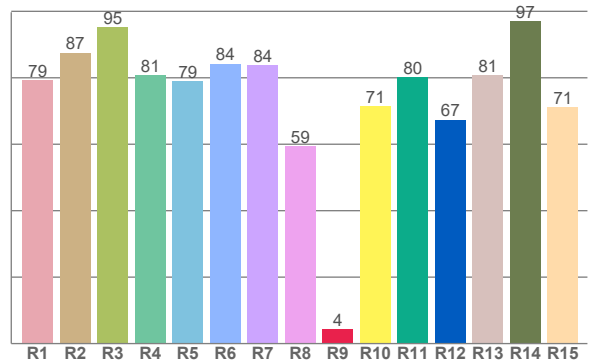




TM30: 82.6



CRI: 81.1 (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
79.2	87.5	95.2	80.9	78.9	84.2	83.8	59.5	4.3	71.5	80.1	67.4	80.8	97.1	71.2

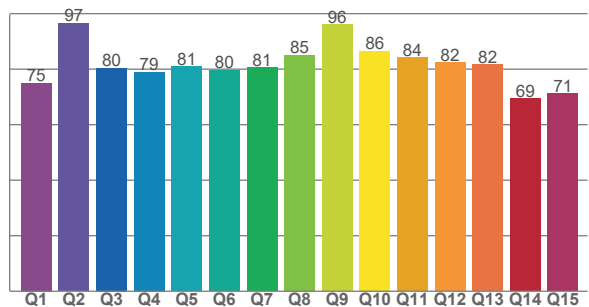
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.5	79.7	73.5	80.8	88.5	87.9	80.8	90.0	88.1	82.3	80.0	83.4	88.1	82.3	78.1	80.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
75.0	96.5	80.5	79.0	81.0	79.6	80.6	85.1	96.1	86.5	84.1	82.3	81.7	69.5	71.3

CQS: 80.4



## 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	$\Delta uv$
3032 K	81.1	4.3	82.6	98.1	80.4	0.436	0.406	0.249	0.348	0.0008

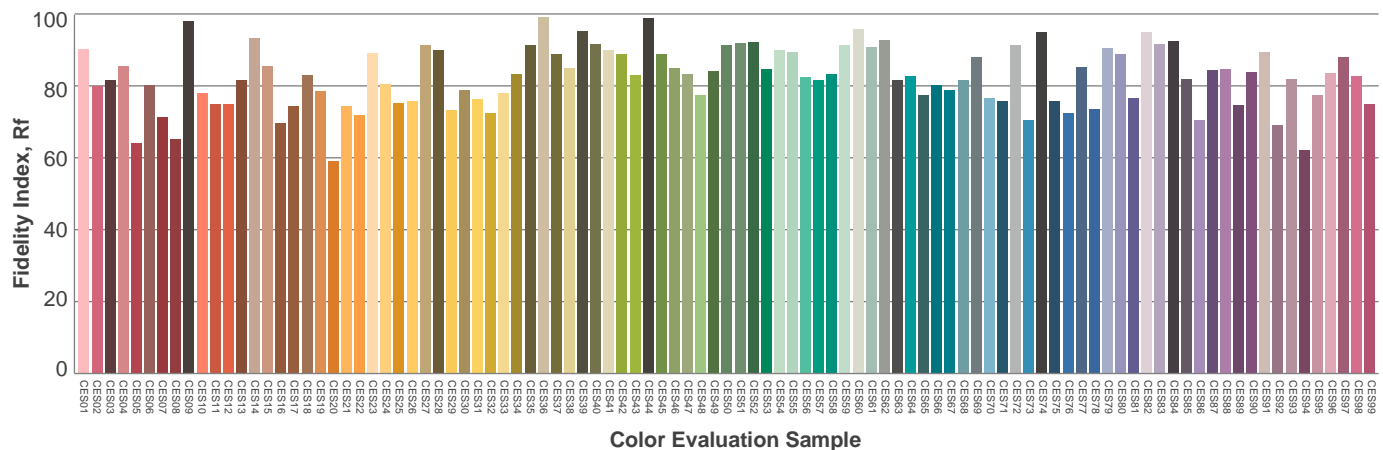
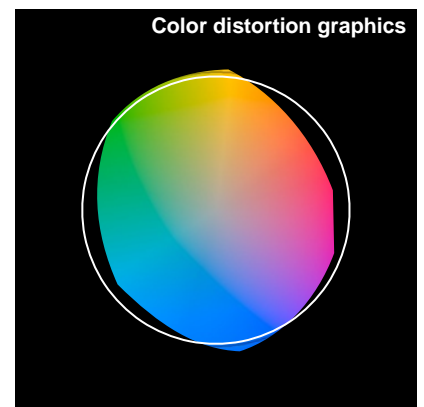
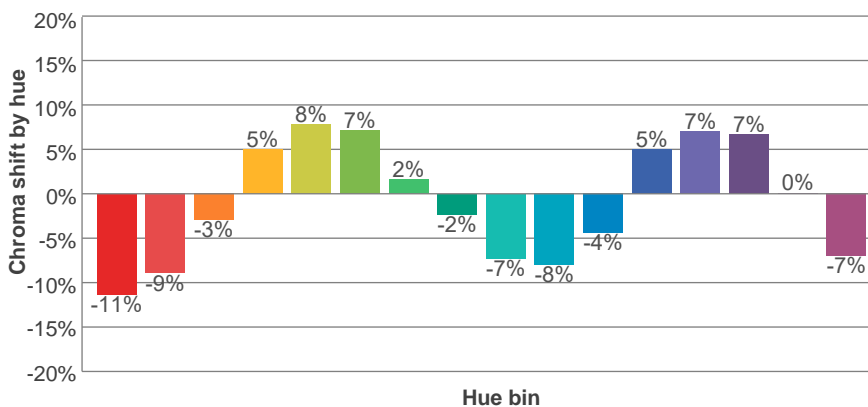
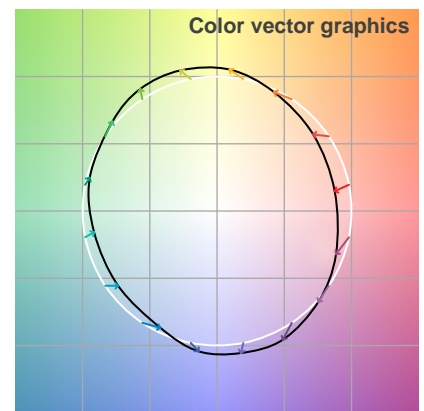
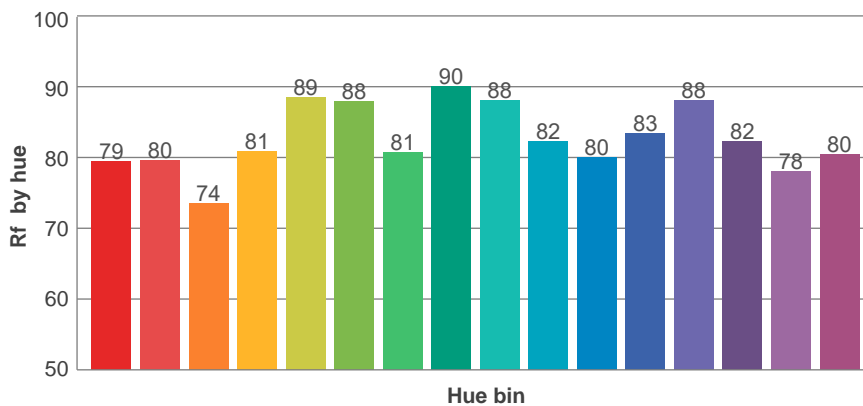
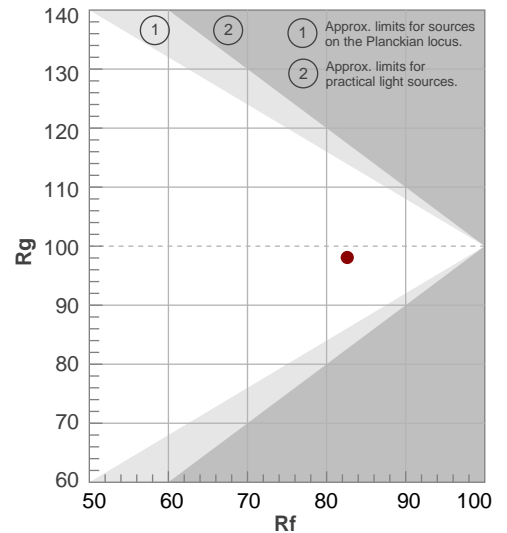
**Rf 82.6**

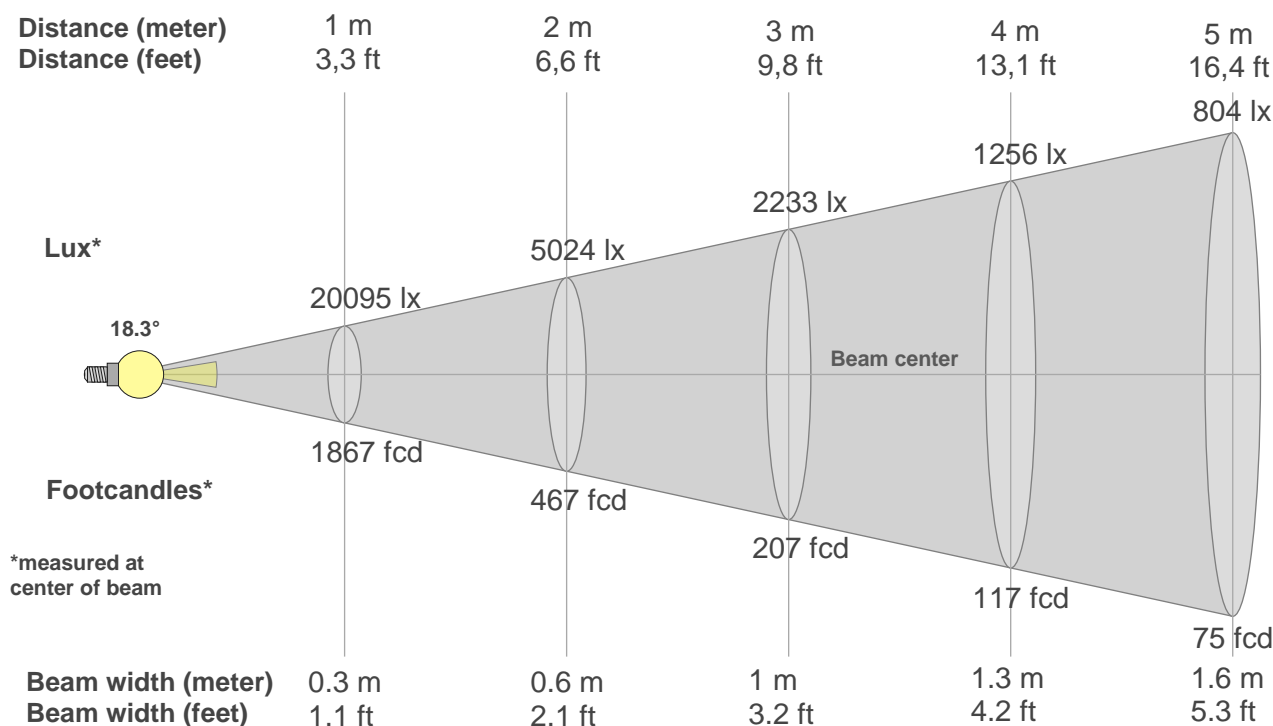
Fidelity index Rf

**Rg 98.1**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	79	-11%	-3%
2	80	-9%	8%
3	74	-3%	14%
4	81	5%	11%
5	89	8%	6%
6	88	7%	-3%
7	81	2%	-12%
8	90	-2%	-6%
9	88	-7%	-2%
10	82	-8%	5%
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
20095lx	5024lx	2233lx	1256lx	804lx	558lx	410lx	314lx	248lx	201lx	166lx	140lx	119lx	103lx	89lx	78lx	70lx	62lx	56lx	50lx
1866.9fcd	466.7fcd	207.4fcd	116.7fcd	74.7fcd	51.9fcd	38.1fcd	29.2fcd	23fcd	18.7fcd	15.4fcd	13fcd	11fcd	9.5fcd	8.3fcd	7.3fcd	6.5fcd	5.8fcd	5.2fcd	4.7fcd

#### Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
20.1K	20.0K	19.5K	18.8K	17.8K	16.6K	15.2K	13.7K	12.2K	10.6K	9.1K	7.8K	6.7K	5.7K	4.9K	4.1K	3.5K	2.9K	2.3K	1.9K
100%	99%	97%	93%	88%	82%	76%	68%	60%	53%	45%	39%	33%	28%	24%	21%	17%	14%	12%	9%

#### Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
20.1K	20.0K	19.5K	18.8K	17.7K	16.5K	15.0K	13.4K	11.7K	10.0K	8.4K	6.9K	5.6K	4.6K	3.7K	2.9K	2.3K	1.8K	1.4K	1.0K
100%	99%	97%	93%	88%	82%	75%	67%	58%	50%	42%	34%	28%	23%	18%	15%	12%	9%	7%	5%

#### Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
20.1K	20.0K	19.5K	18.8K	17.8K	16.6K	15.2K	13.7K	12.2K	10.6K	9.1K	7.8K	6.7K	5.7K	4.9K	4.1K	3.5K	2.9K	2.3K	1.9K
100%	99%	97%	93%	88%	82%	76%	68%	60%	53%	45%	39%	33%	28%	24%	21%	17%	14%	12%	9%

#### Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
20.1K	20.0K	19.5K	18.8K	17.7K	16.5K	15.0K	13.4K	11.7K	10.0K	8.4K	6.9K	5.6K	4.6K	3.7K	2.9K	2.3K	1.8K	1.4K	1.0K
100%	99%	97%	93%	88%	82%	75%	67%	58%	50%	42%	34%	28%	23%	18%	15%	12%	9%	7%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.3°	35.4°	44.6°	99.7%	99.7%