

Light efficiency:

84 Lumen/Watt

Light quality:

CRI: 91.5

Color temperature:

3019 K

Output: 2029 lm

Peak: 8916 cd

Power: 24.2 W

PF: 0.97

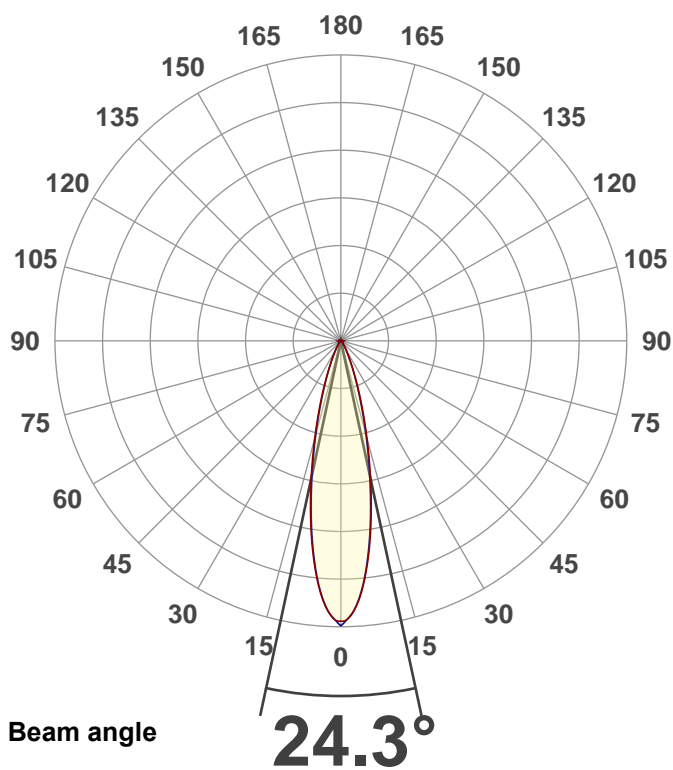


Product name:

DF10-SW-30K-90-24D-UNV-DIM10-NC-WH-MC

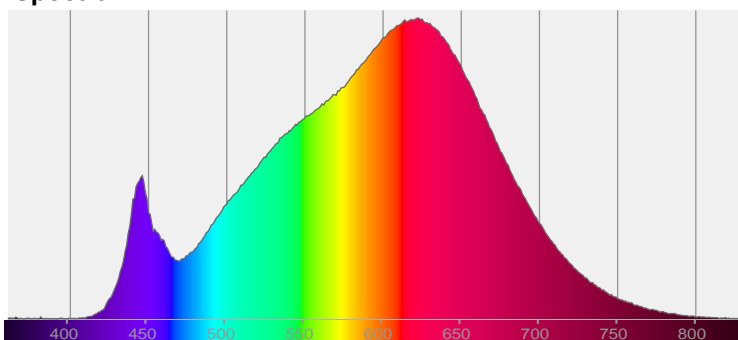
Date and time:

5/9/2019 9:26:25 AM

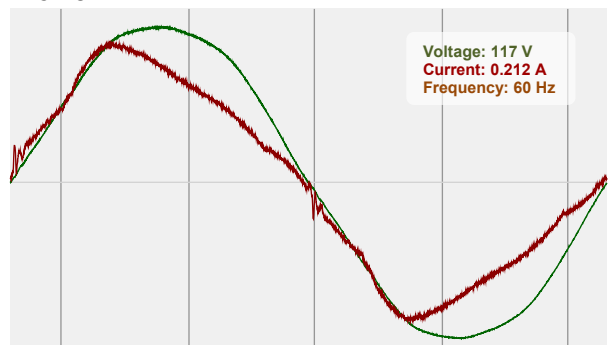


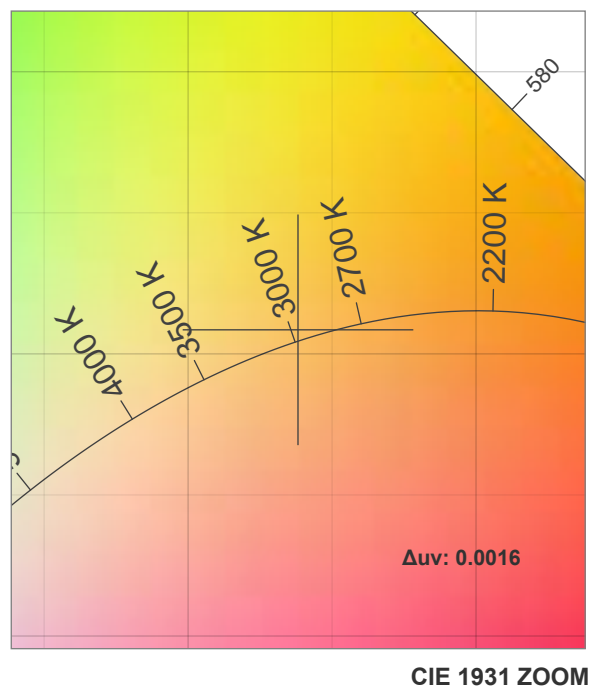
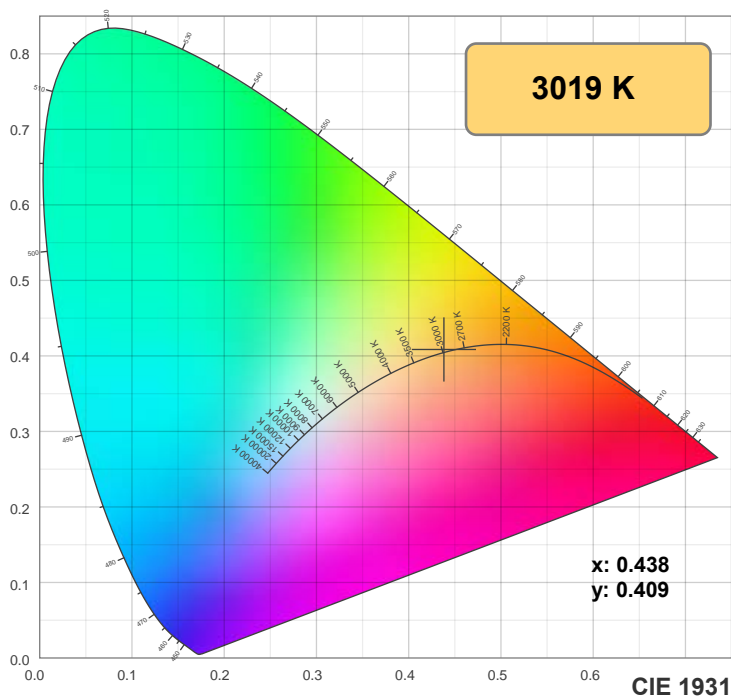
CIE 1931
x: 0.438
y: 0.409

Spectra

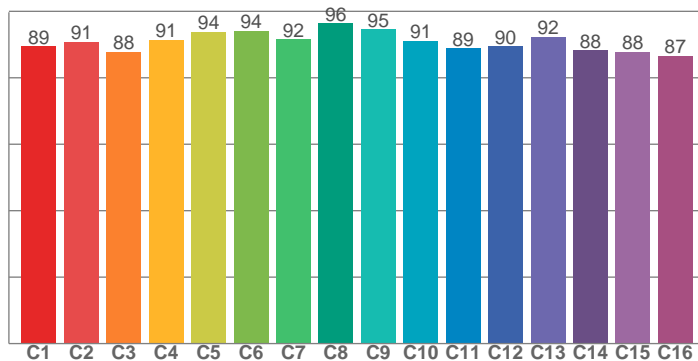


Power

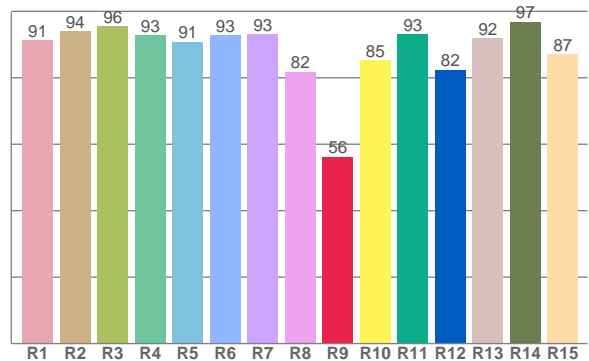




TM30: 91.0



CRI: 91.5 (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
91.4	94.1	95.6	92.7	90.9	92.7	93.0	81.8	56.2	85.3	93.1	82.4	91.9	96.8	87.1

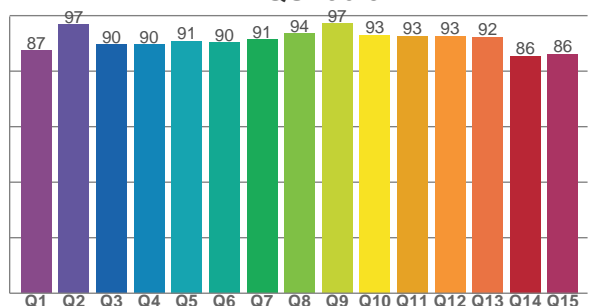
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.4	90.9	87.8	91.5	93.9	94.2	91.6	96.4	94.5	91.2	88.8	89.5	92.2	88.2	87.8	86.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.5	96.8	89.5	89.6	90.8	90.3	91.3	93.6	97.2	93.1	92.7	92.5	92.3	85.5	86.2

CQS: 90.5



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
3019 K	91.5	56.2	91.0	99.7	90.5	0.438	0.409	0.249	0.349	0.0016

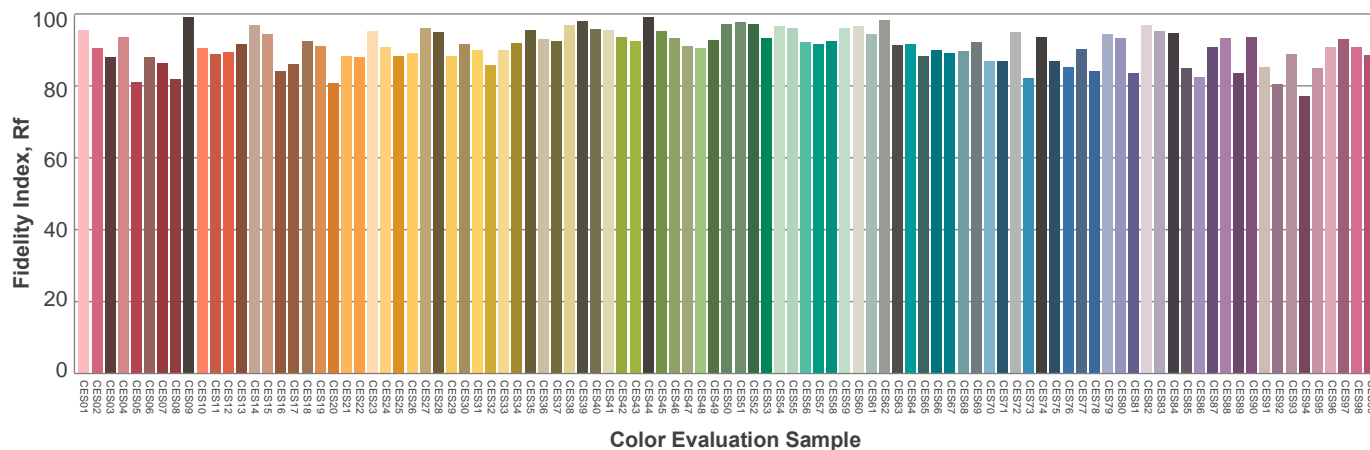
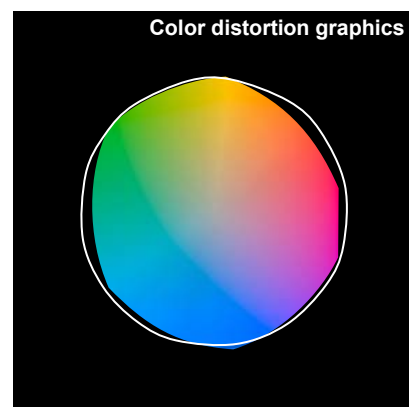
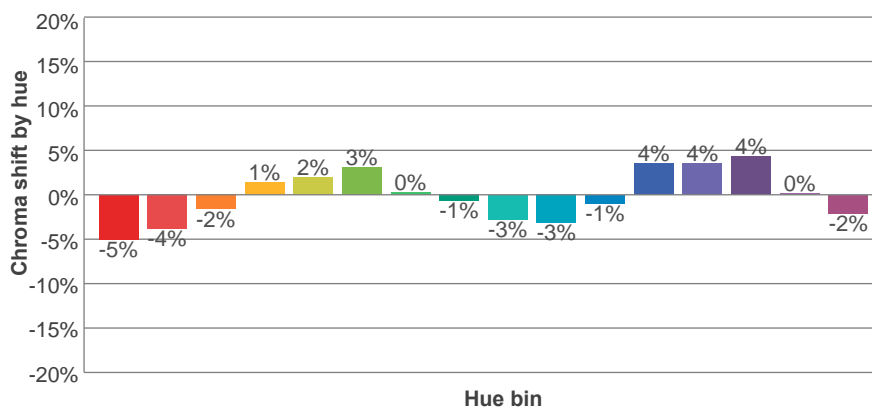
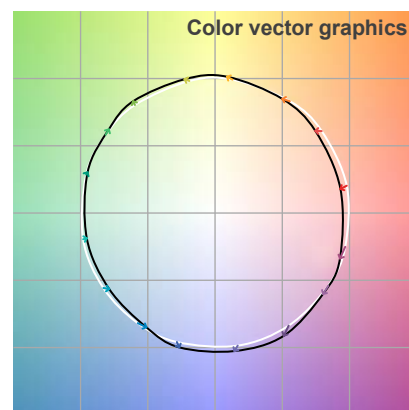
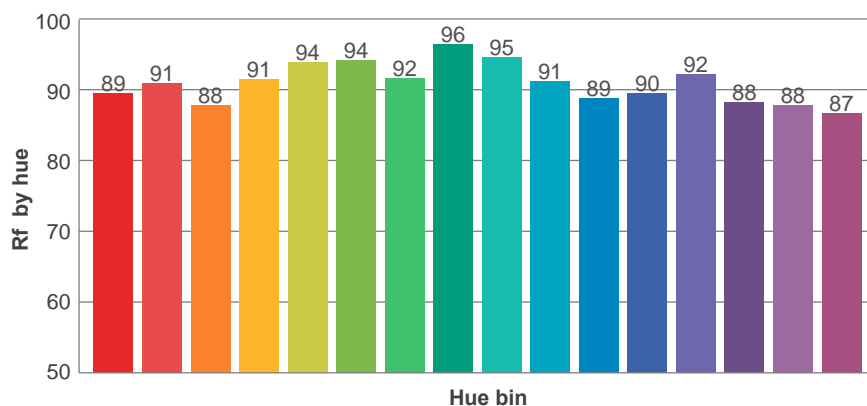
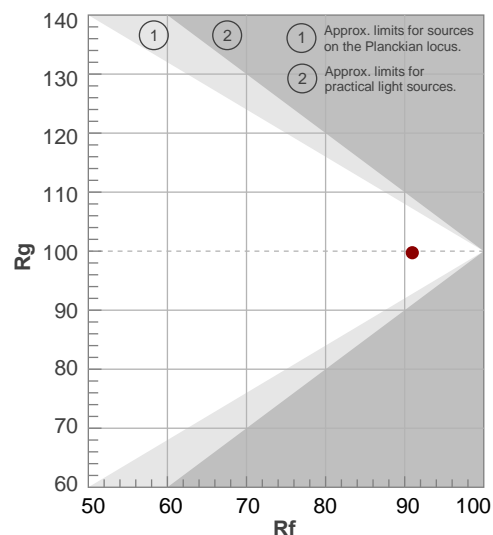
Rf 91.0

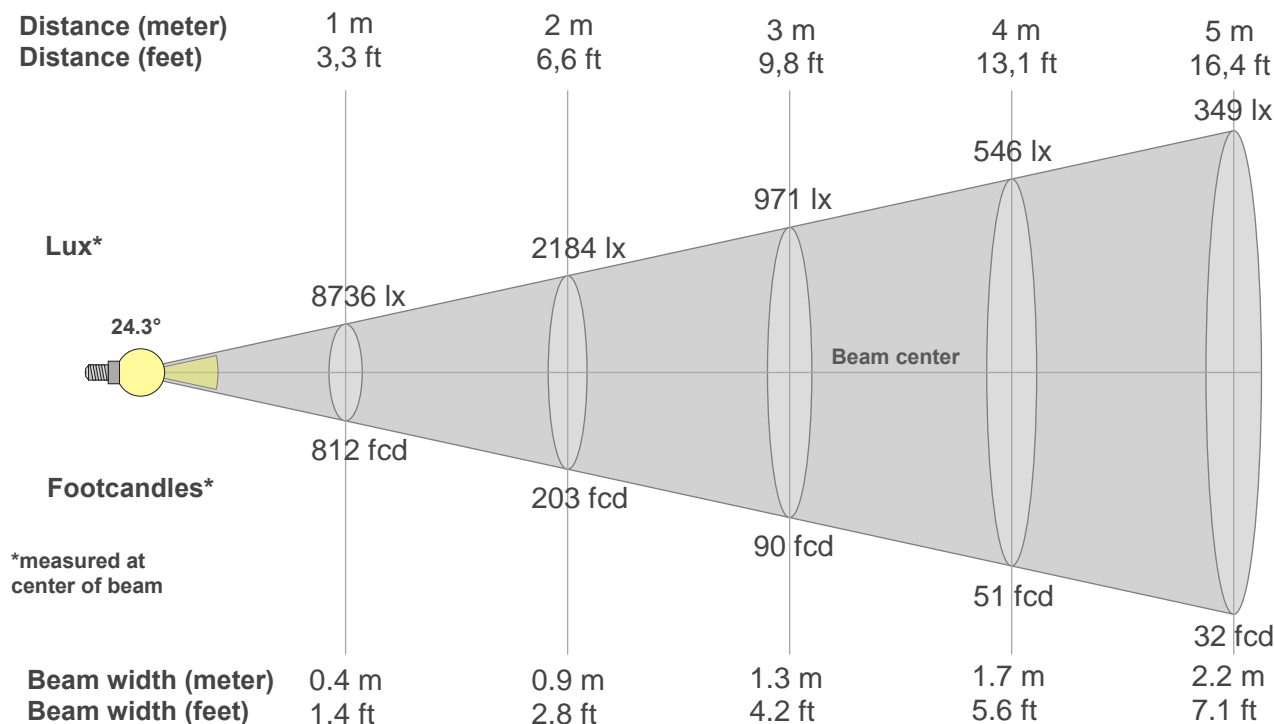
Fidelity index Rf

Rg 99.7

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	-5%	-1%
2	91	-4%	3%
3	88	-2%	6%
4	91	1%	4%
5	94	2%	3%
6	94	3%	0%
7	92	0%	-5%
8	96	-1%	-2%
9	95	-3%	0%
10	91	-3%	3%
11	89	-1%	7%
12	90	4%	2%
13	92	4%	-3%
14	88	4%	-7%
15	88	0%	-7%
16	87	-2%	-9%





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
8736lx	2184lx	971lx	546lx	349lx	243lx	178lx	136lx	108lx	87lx	72lx	61lx	52lx	45lx	39lx	34lx	30lx	27lx	24lx	22lx
811.6fcd	202.9fcd	90.2fcd	50.7fcd	32.5fcd	22.5fcd	16.6fcd	12.7fcd	10fcd	8.1fcd	6.7fcd	5.6fcd	4.8fcd	4.1fcd	3.6fcd	3.2fcd	2.8fcd	2.5fcd	2.2fcd	2fcd

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°
8736	8638	8140	7385	6473	5483	4500	3586	2787	2117	1577	1147	821	594	437	327	239	169	126	88
100%	99%	93%	85%	74%	63%	52%	41%	32%	24%	18%	13%	9%	7%	5%	4%	3%	2%	1%	1%

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°
8736	8616	8102	7332	6391	5368	4359	3442	2648	1987	1473	1083	798	585	433	323	241	167	121	87
100%	99%	93%	84%	73%	61%	50%	39%	30%	23%	17%	12%	9%	7%	5%	4%	3%	2%	1%	1%

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°
8736	8638	8140	7385	6473	5483	4500	3586	2787	2117	1577	1147	821	594	437	327	239	169	126	88
100%	99%	93%	85%	74%	63%	52%	41%	32%	24%	18%	13%	9%	7%	5%	4%	3%	2%	1%	1%

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°
8736	8616	8102	7332	6391	5368	4359	3442	2648	1987	1473	1083	798	585	433	323	241	167	121	87
100%	99%	93%	84%	73%	61%	50%	39%	30%	23%	17%	12%	9%	7%	5%	4%	3%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.3°	47.9°	66.9°	99.9%	99.6%