

Light efficiency:

82 Lumen/Watt

Light quality:

CRI: 91.5

Color temperature:

3018 K

Output: 1971 lm

Peak: 8698 cd

Power: 23.9 W

PF: 0.97

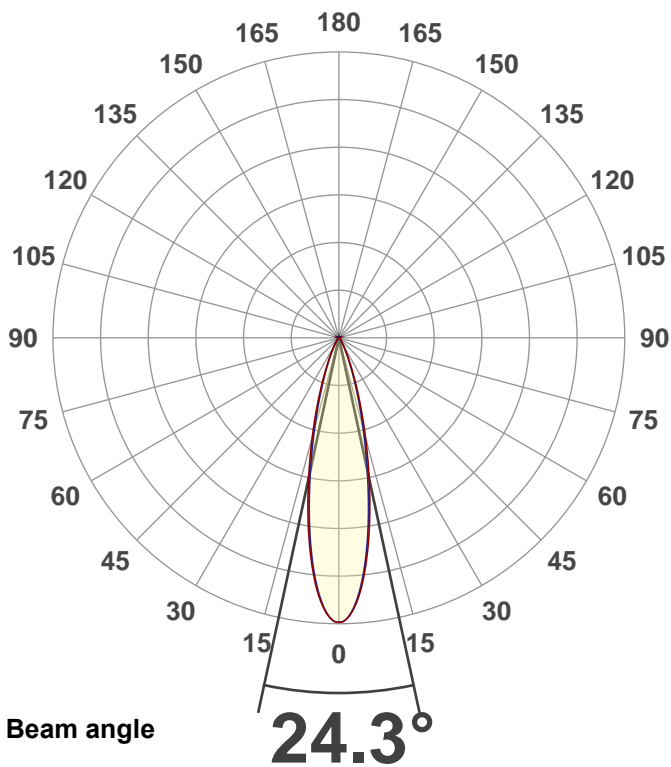


Product name:

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

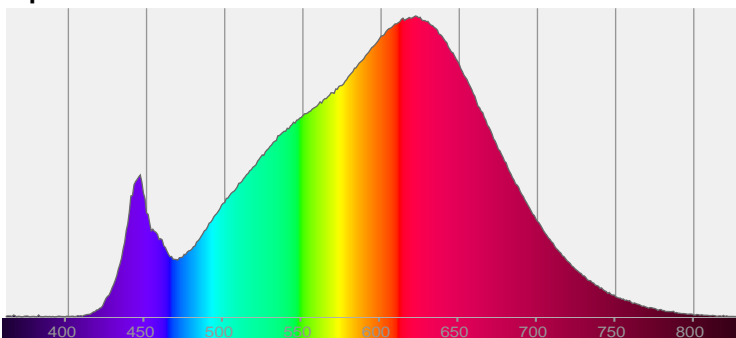
Date and time:

**5/9/2019 8:58:53 AM**

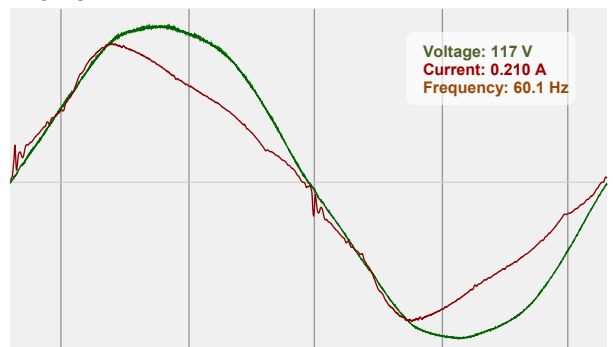


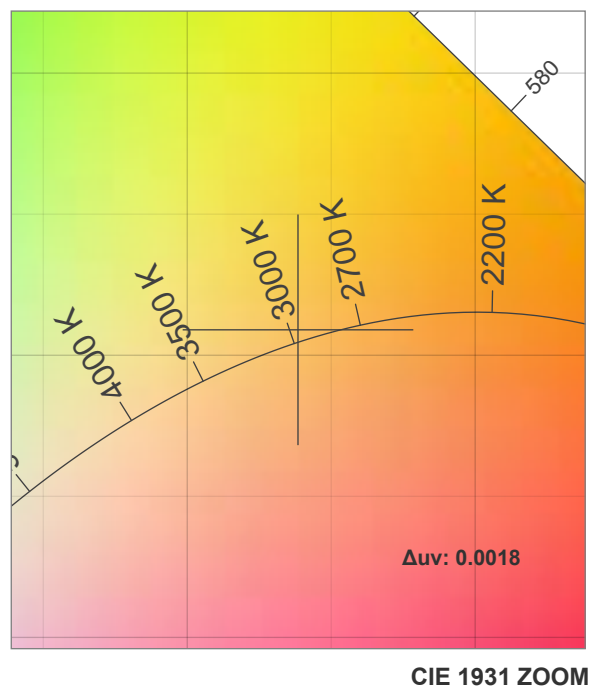
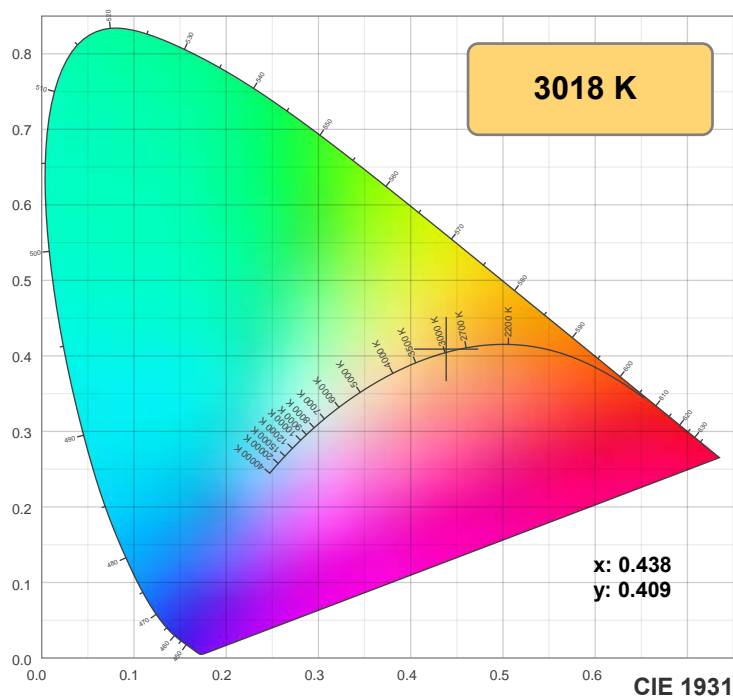
CIE 1931  
x: 0.438  
y: 0.409

Spectra

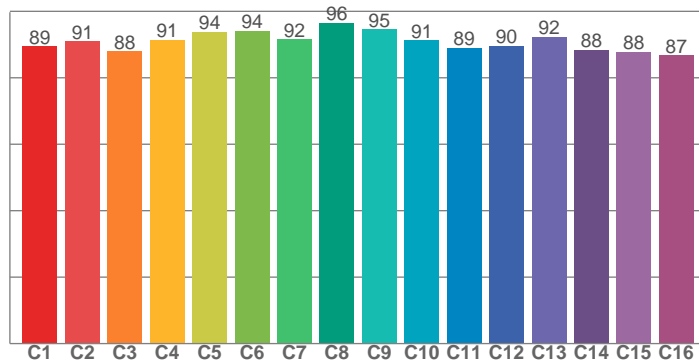


Power

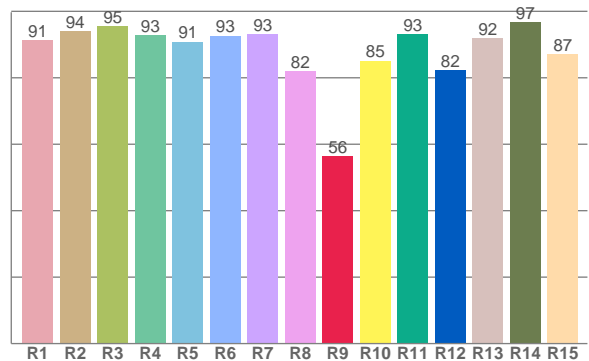




**TM30: 91.0**



**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	94.0	95.5	92.8	90.9	92.6	93.1	81.9	56.4	85.2	93.2	82.3	91.8	96.8	87.1

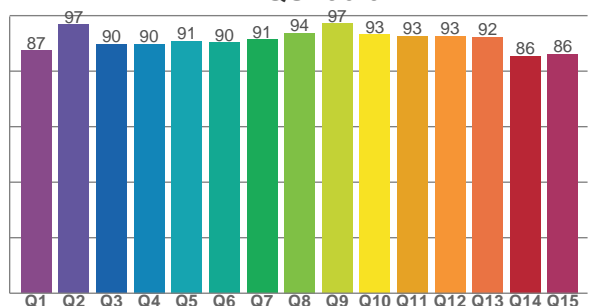
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.5	90.9	87.9	91.5	93.9	94.2	91.6	96.4	94.5	91.2	88.9	89.6	92.3	88.4	87.8	86.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.5	96.8	89.7	89.7	90.8	90.3	91.4	93.7	97.2	93.2	92.7	92.6	92.3	85.5	86.2

**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	$\Delta uv$
3018 K	91.5	56.4	91.0	99.7	90.6	0.438	0.409	0.249	0.349	0.0018

## TM30 Details

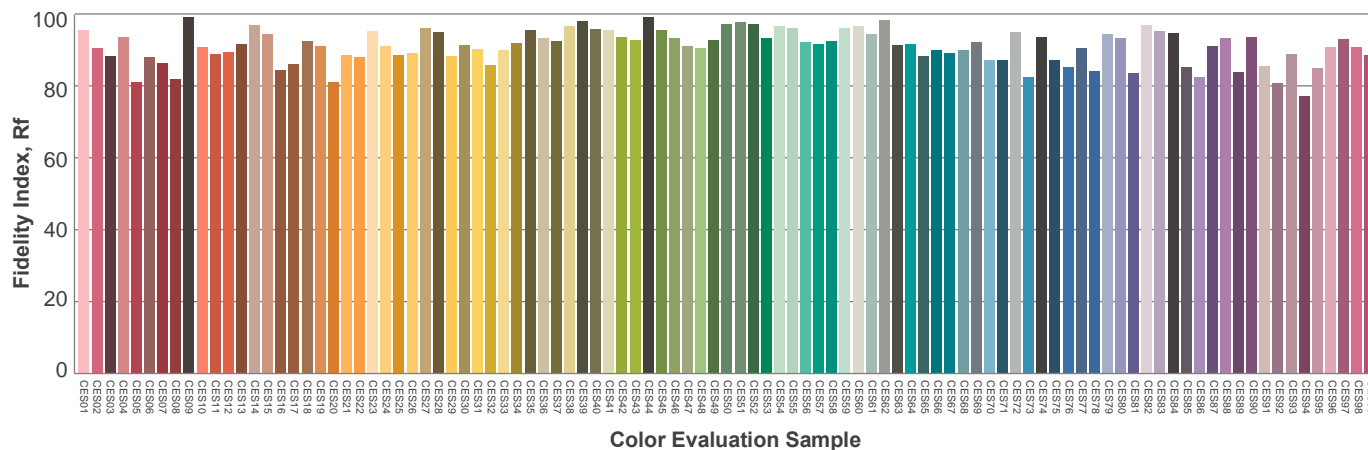
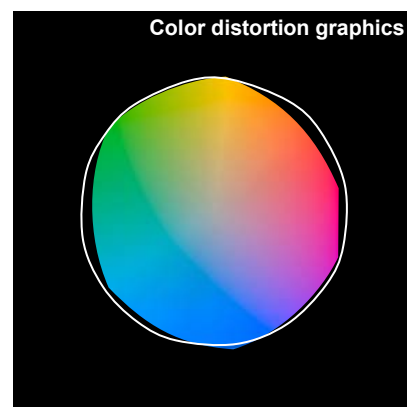
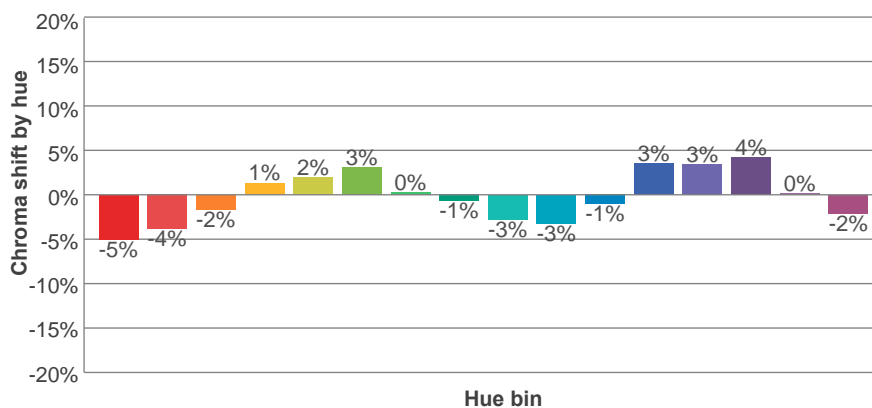
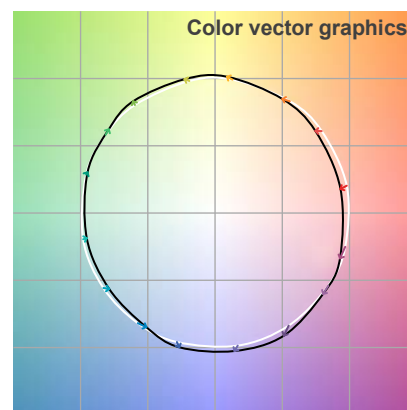
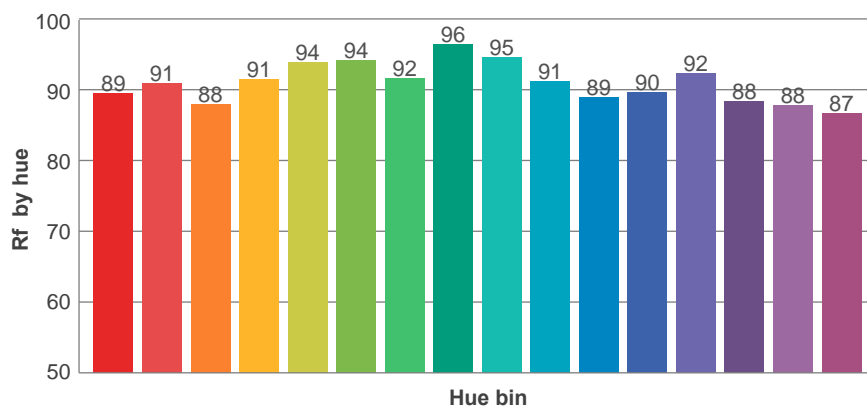
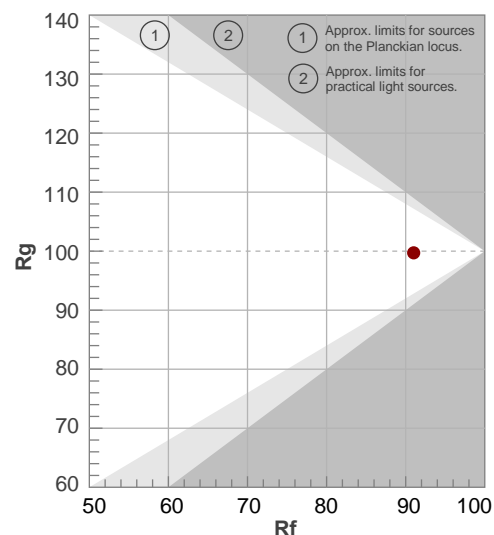
**Rf 91.0**

Fidelity index Rf

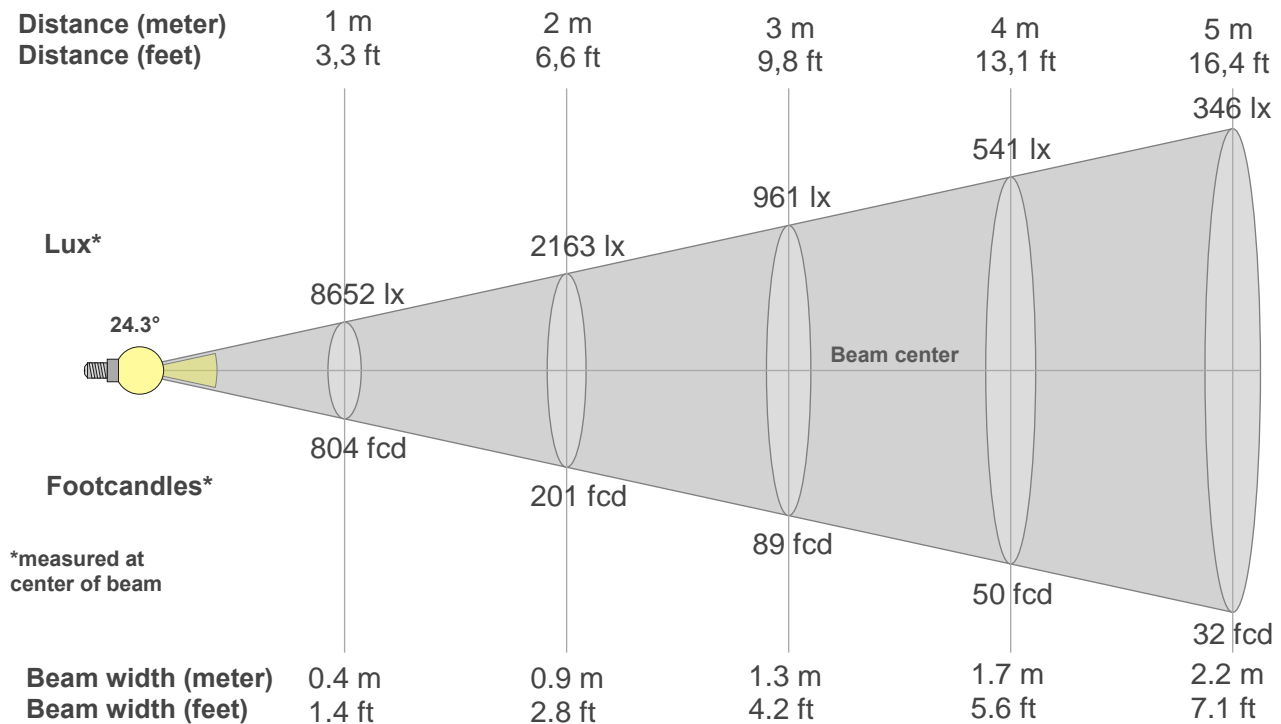
**Rg 99.7**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	89	-5%	-1%
2	91	-4%	3%
3	88	-2%	5%
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	3%	2%
13	92	3%	-3%
14	88	4%	-7%
15	88	0%	-7%
16	87	-2%	-9%



## Beam Details



### 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
8652lx	2163lx	961lx	541lx	346lx	240lx	177lx	135lx	107lx	87lx	72lx	60lx	51lx	44lx	38lx	34lx	30lx	27lx	24lx	22lx
803.8fcd	200.9fcd	89.3fcd	50.2fcd	32.2fcd	22.3fcd	16.4fcd	12.6fcd	9.9fcd	8fcd	6.6fcd	5.6fcd	4.8fcd	4.1fcd	3.6fcd	3.1fcd	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°
8652	8491	8020	7291	6391	5417	4448	3542	2746	2080	1543	1121	800	568	413	302	216	148	104	70
100%	98%	93%	84%	74%	63%	51%	41%	32%	24%	18%	13%	9%	7%	5%	3%	2%	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°
8652	8481	7966	7181	6226	5193	4173	3259	2483	1854	1363	995	722	524	388	285	208	141	93	63
100%	98%	92%	83%	72%	60%	48%	38%	29%	21%	16%	11%	8%	6%	4%	3%	2%	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°
8652	8491	8020	7291	6391	5417	4448	3542	2746	2080	1543	1121	800	568	413	302	216	148	104	70
100%	98%	93%	84%	74%	63%	51%	41%	32%	24%	18%	13%	9%	7%	5%	3%	2%	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°
8652	8481	7966	7181	6226	5193	4173	3259	2483	1854	1363	995	722	524	388	285	208	141	93	63
100%	98%	92%	83%	72%	60%	48%	38%	29%	21%	16%	11%	8%	6%	4%	3%	2%	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°	47.6°	65.9°	99.9%	99.8%