

Light efficiency:

**73 Lumen/Watt**

Light quality:

**CRI: 91.6**

Color temperature:

**3060 K**

**Output: 1756 lm**

**Peak: 3607 cd**

**Power: 24.1 W**

**PF: 0.97**

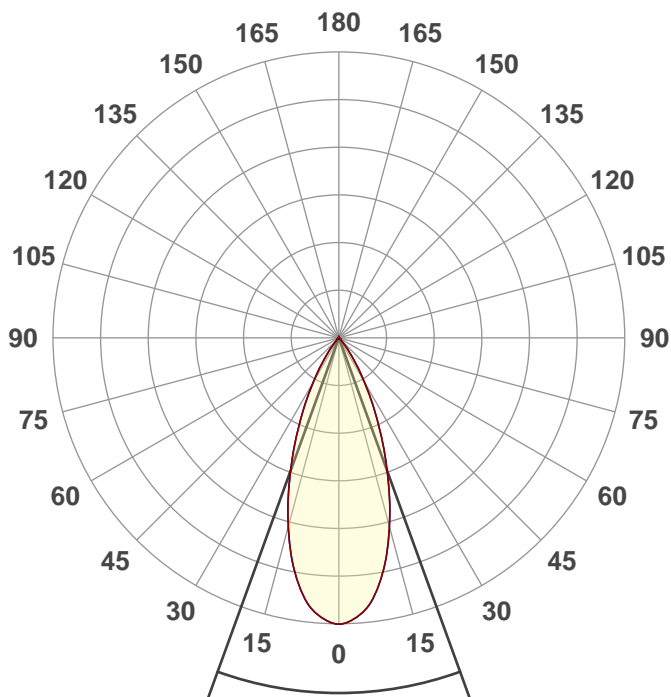


Product name:

**DF10-SW-30K-90-40D-UNV-DIM10-NC-WH-BK**

Date and time:

**5/10/2019 1:19:22 PM**



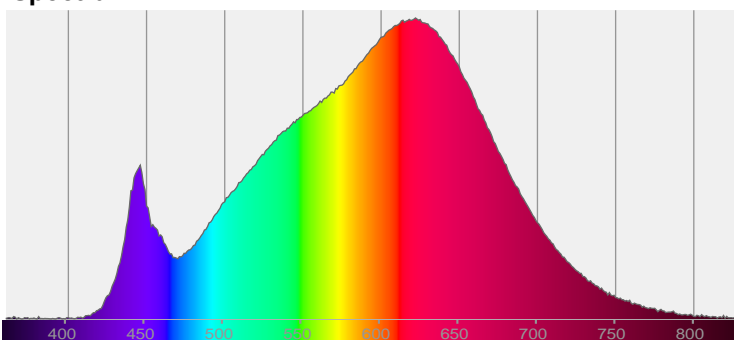
Beam angle

**39.9°**

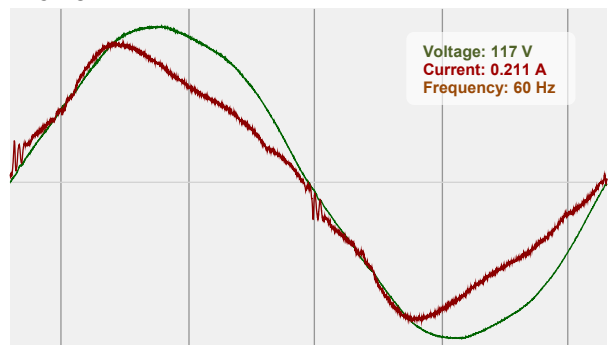


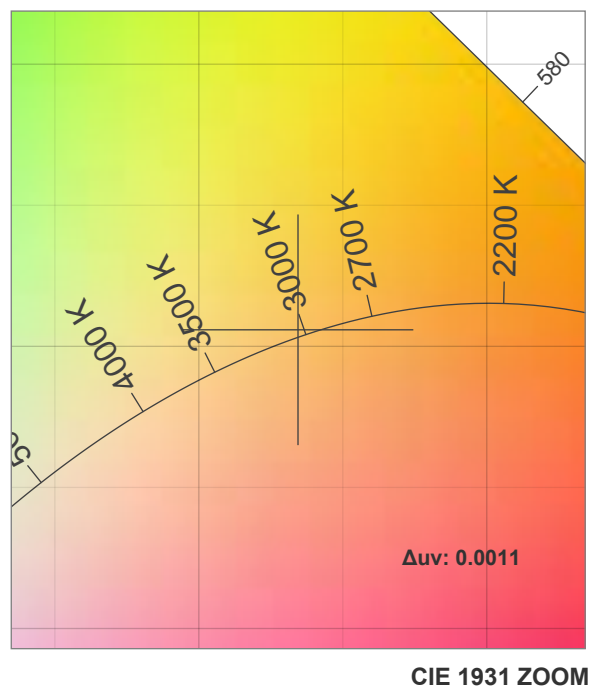
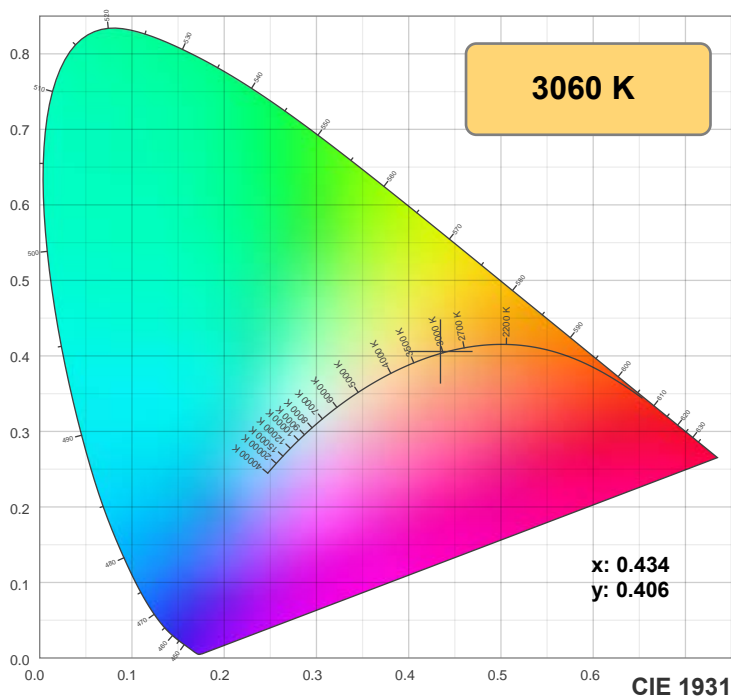
CIE 1931  
x: 0.434  
y: 0.406

Spectra

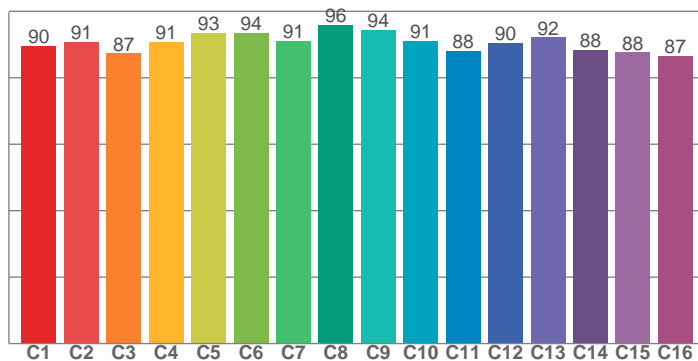


Power

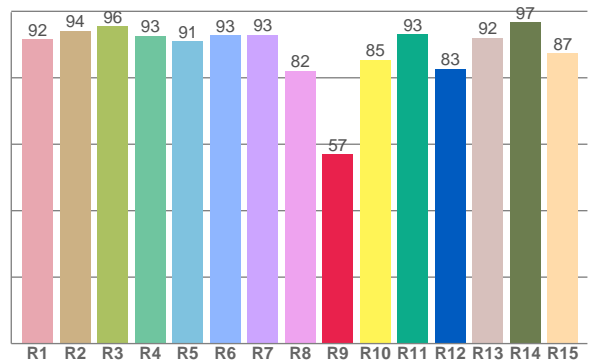




**TM30: 90.7**



**CRI: 91.6 (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
91.5	94.2	95.5	92.7	91.0	92.7	92.9	82.1	56.9	85.5	93.0	82.7	92.0	96.8	87.4

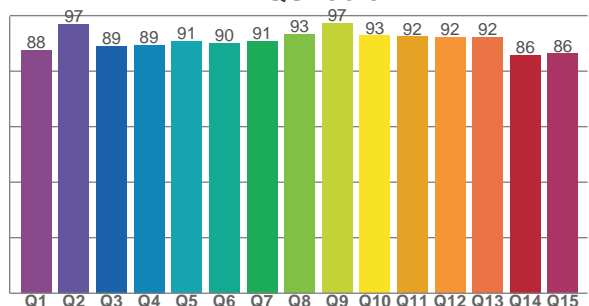
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.5	90.8	87.3	90.8	93.4	93.5	91.1	95.9	94.4	91.2	88.1	90.5	92.2	88.3	87.7	86.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.5	97.0	89.1	89.4	90.8	90.1	90.9	93.3	97.2	92.8	92.5	92.4	92.2	85.8	86.3

**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	$\Delta uv$
3060 K	91.6	56.9	90.7	100.2	90.5	0.434	0.406	0.248	0.348	0.0011

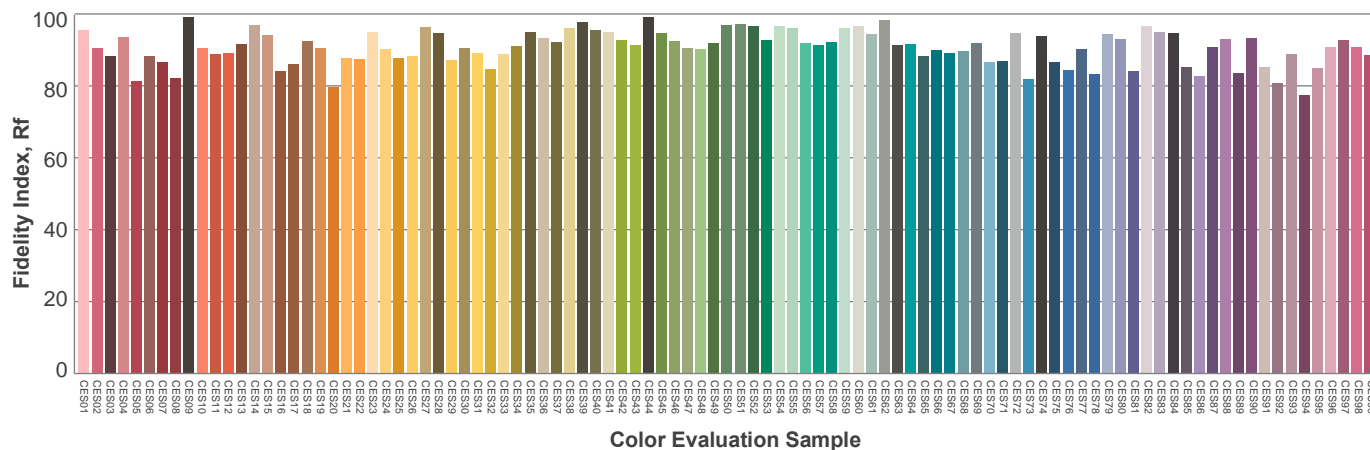
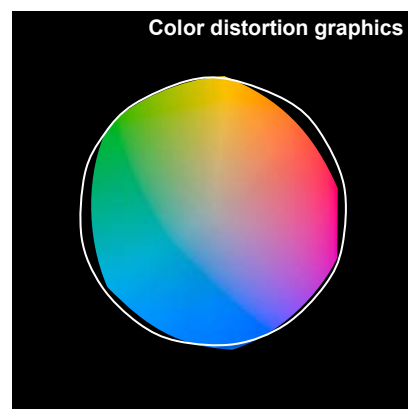
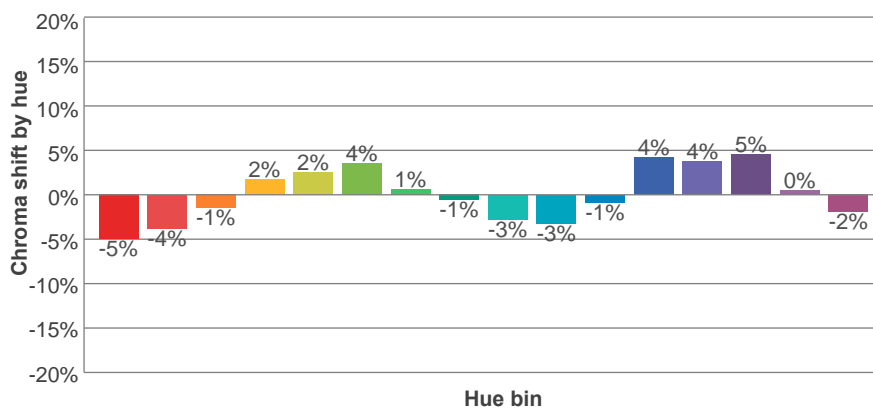
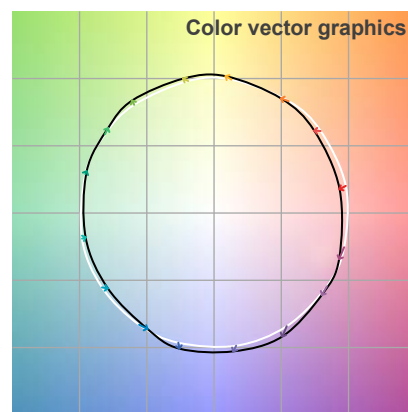
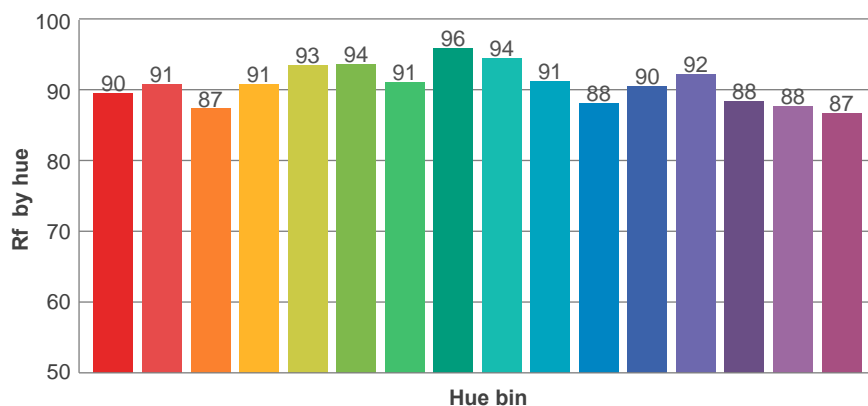
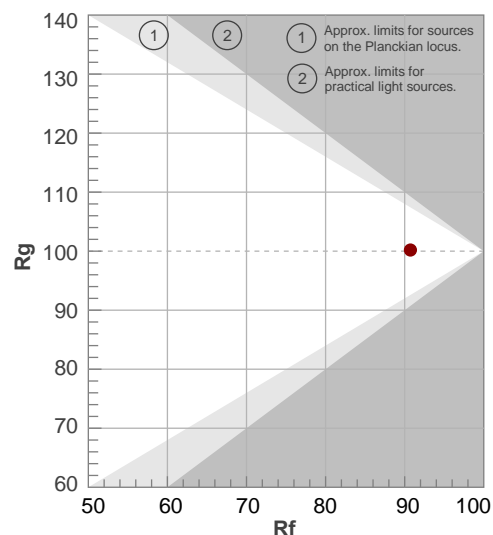
**Rf 90.7**

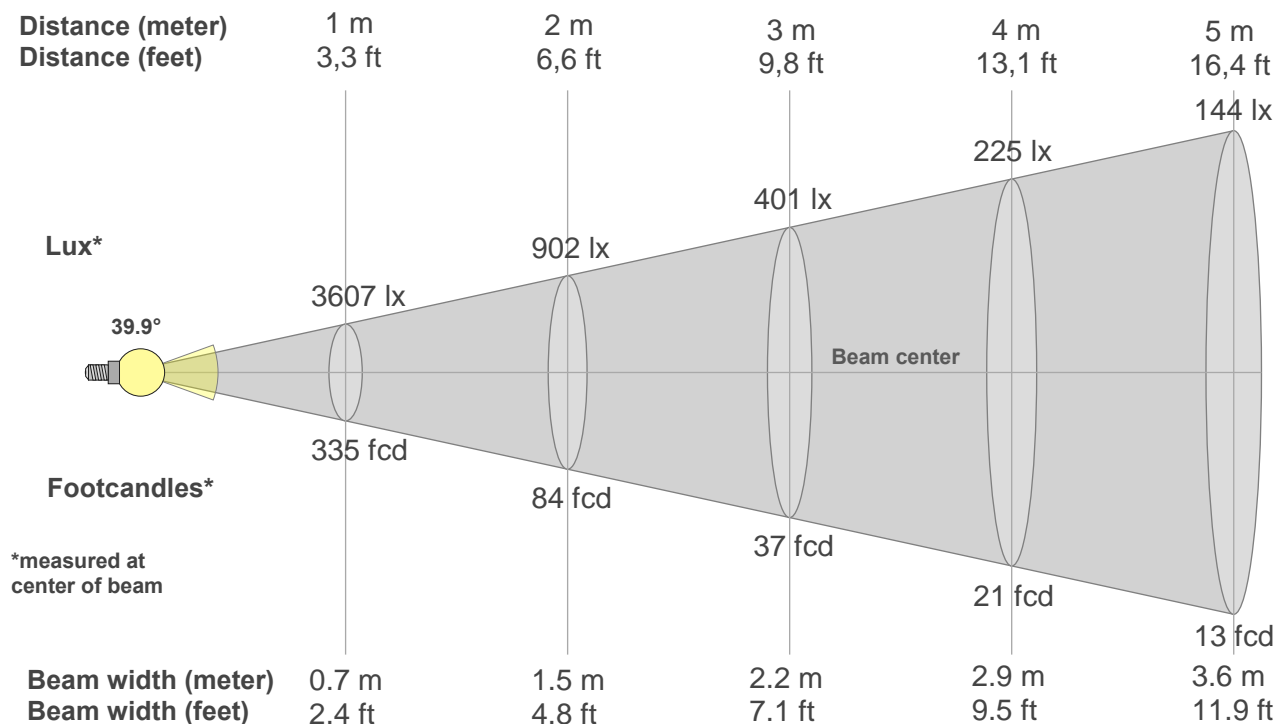
Fidelity index Rf

**Rg 100.2**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-5%	-2%
2	91	-4%	3%
3	87	-1%	6%
4	91	2%	5%
5	93	2%	3%
6	94	4%	0%
7	91	1%	-5%
8	96	-1%	-2%
9	94	-3%	0%
10	91	-3%	3%
11	88	-1%	7%
12	90	4%	2%
13	92	4%	-3%
14	88	5%	-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
3607lx	902lx	401lx	225lx	144lx	100lx	74lx	56lx	45lx	36lx	30lx	25lx	21lx	18lx	16lx	14lx	12lx	11lx	10lx	9lx
335.1fcd	83.8fcd	37.2fcd	20.9fcd	13.4fcd	9.3fcd	6.8fcd	5.2fcd	4.1fcd	3.4fcd	2.8fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd

### 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°
3607	3604	3514	3424	3271	3073	2866	2604	2342	2071	1798	1533	1291	1050	852	663	498	372	246	174
100%	100%	97%	95%	91%	85%	79%	72%	65%	57%	50%	42%	36%	29%	24%	18%	14%	10%	7%	5%

### 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°
3607	3604	3514	3424	3271	3073	2866	2604	2342	2071	1798	1533	1291	1050	852	663	498	372	246	174
100%	100%	97%	95%	91%	85%	79%	72%	65%	57%	50%	42%	36%	29%	24%	18%	14%	10%	7%	5%

### 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°
3607	3604	3514	3424	3271	3073	2866	2604	2342	2071	1798	1533	1291	1050	852	663	498	372	246	174
100%	100%	97%	95%	91%	85%	79%	72%	65%	57%	50%	42%	36%	29%	24%	18%	14%	10%	7%	5%

### 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°
3607	3604	3514	3424	3271	3073	2866	2604	2342	2071	1798	1533	1291	1050	852	663	498	372	246	174
100%	100%	97%	95%	91%	85%	79%	72%	65%	57%	50%	42%	36%	29%	24%	18%	14%	10%	7%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.9°	68.4°	80.9°	99.8%	99.6%