

Light efficiency:

**54 Lumen/Watt**

Light quality:

**CRI: 96.4**

Color temperature:

**2964 K**

**Output: 1077 lm**

**Peak: 870 cd**

**Power: 20.0 W**

**PF: 0.99**



Beam angle

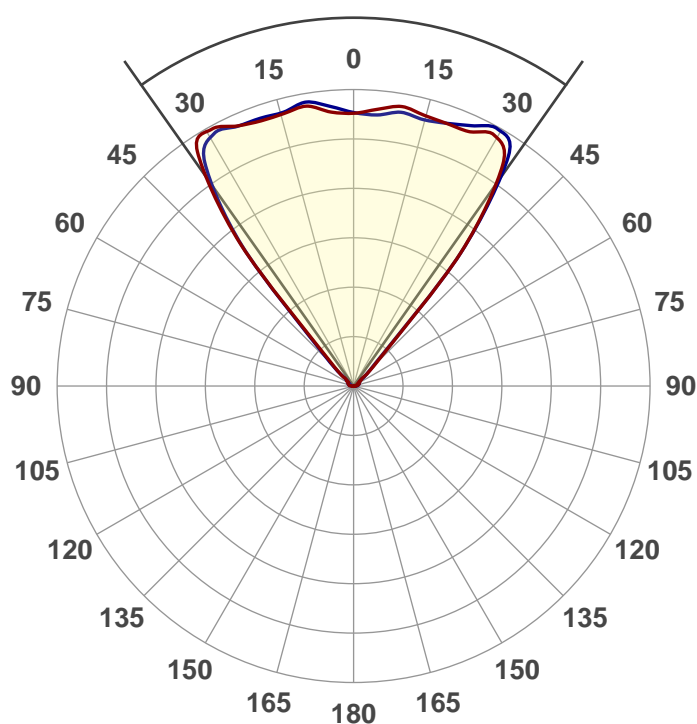
**70.4°**

Product name:

**608QA-6-XTM19-13LM-30K-98-  
UNV-DIM10-WH-S-TCRO**

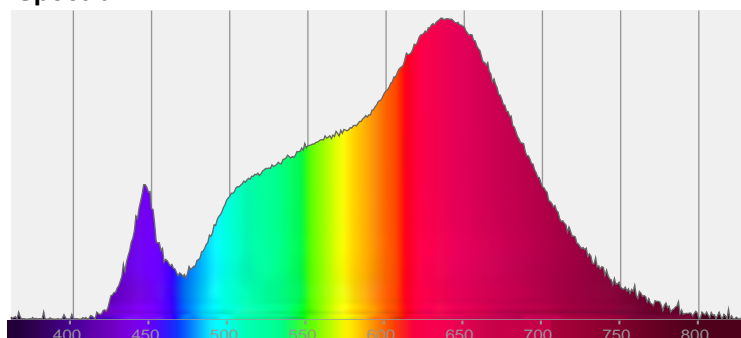
Date and time:

**1/19/2018 12:55:49 PM**

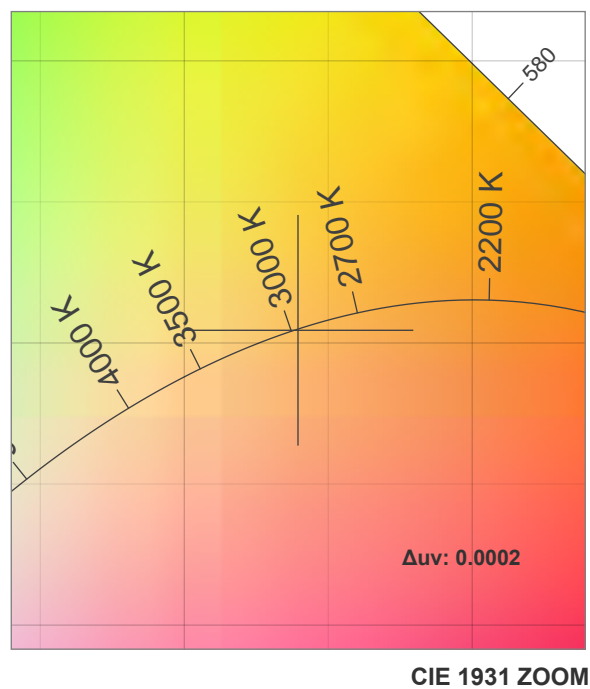
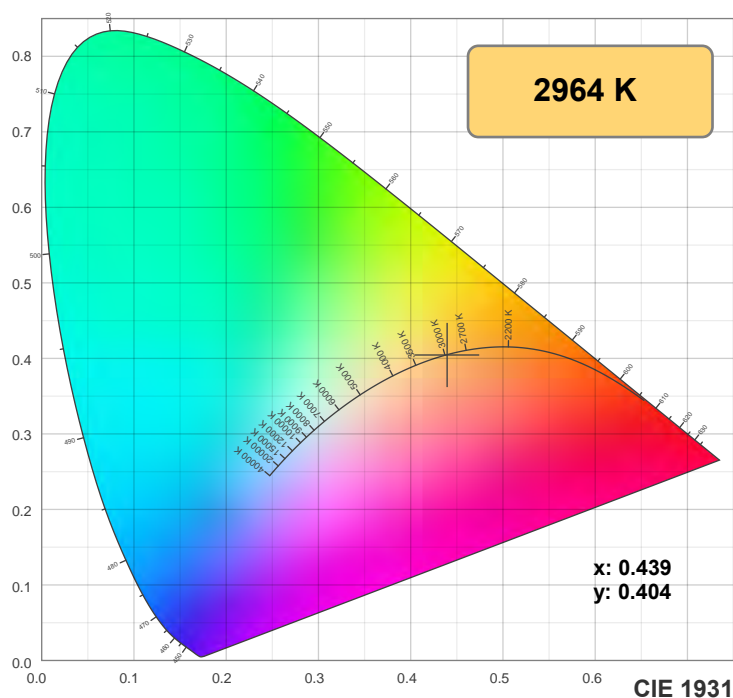


**CIE 1931  
x: 0.439  
y: 0.404**

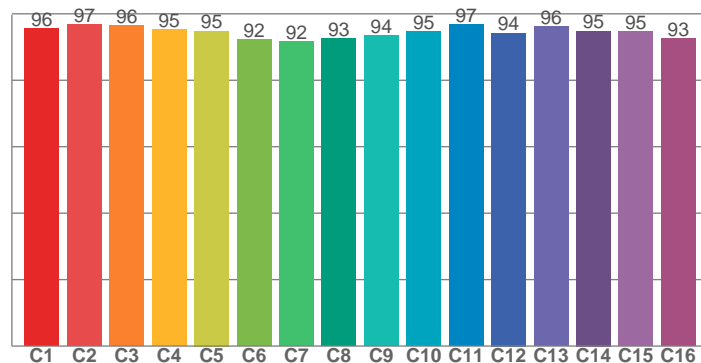
**Spectra**



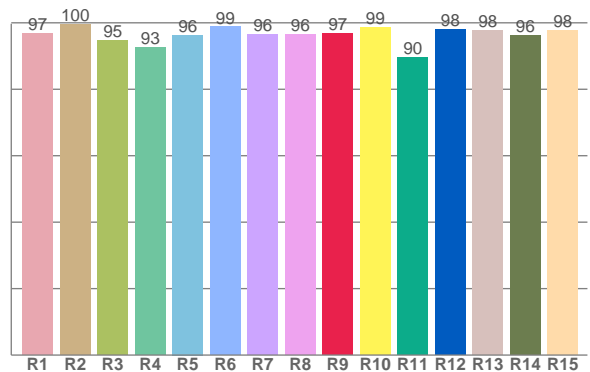
## Color details



**TM30: 94.8**



**CRI: 96.4 (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
96.8	99.5	94.6	92.6	96.3	98.8	96.5	96.4	96.8	98.6	89.5	97.9	97.7	96.2	97.7

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
95.5	96.9	96.5	95.2	94.8	92.3	91.6	92.6	93.5	94.7	96.8	94.2	96.1	94.8	94.7	92.6

## Color parameters

Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	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	x	y	u	v	Δuv
2964 K	96.4	96.8	94.8	104.0	0.439	0.404	0.252	0.348	0.0002

## TM30 details

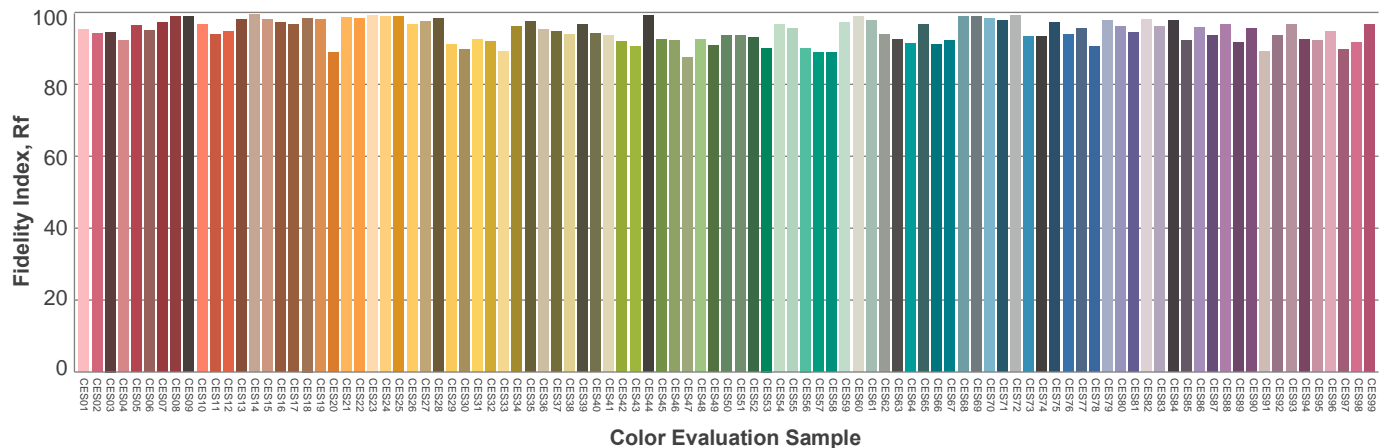
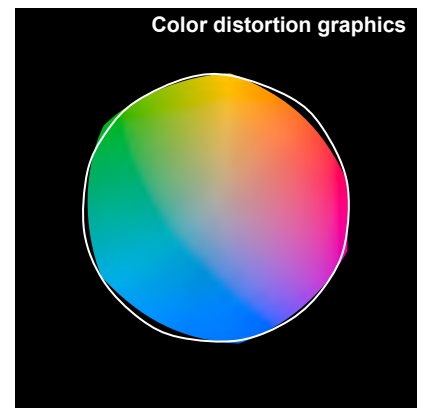
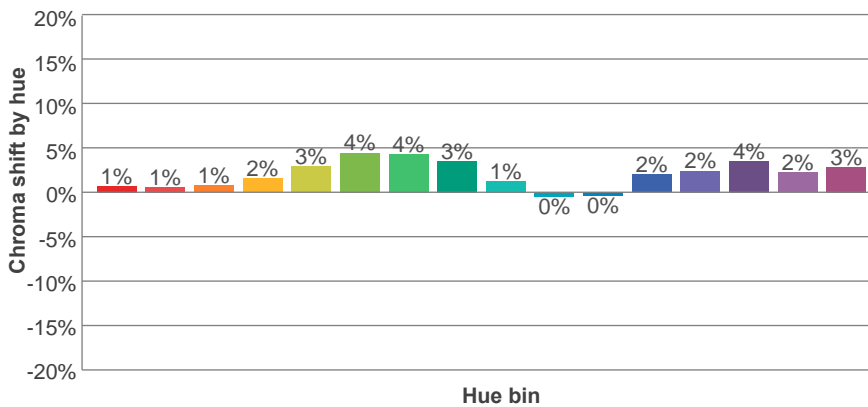
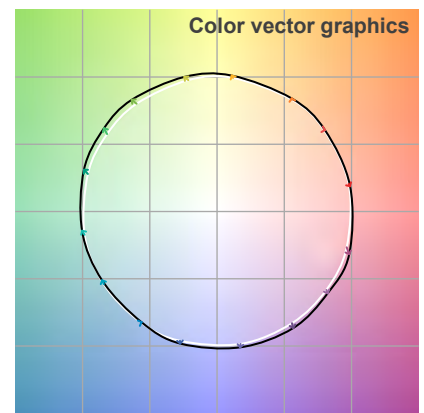
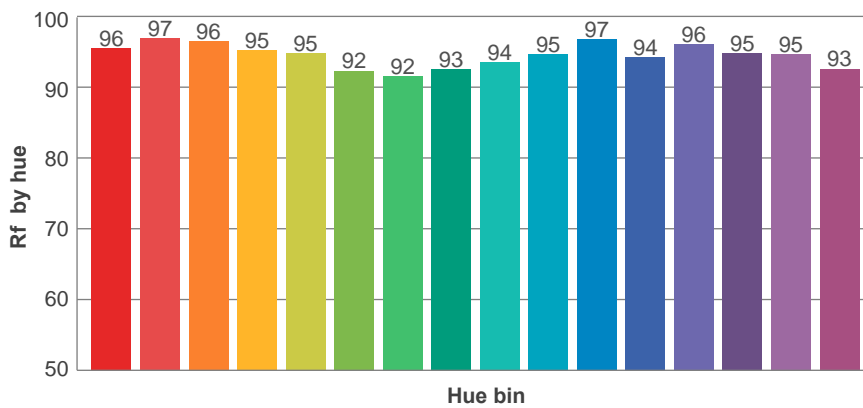
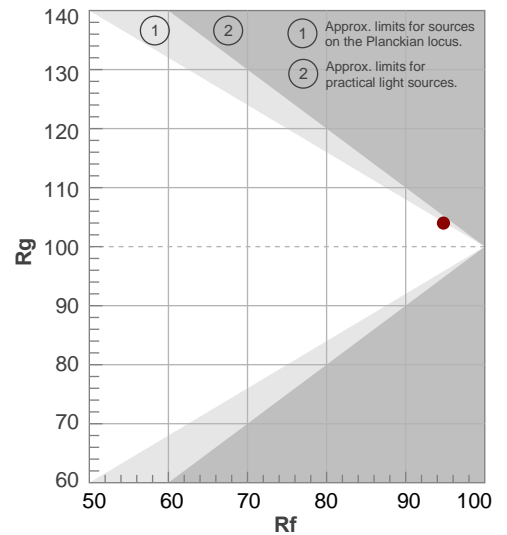
**Rf 94.8**

Fidelity index Rf

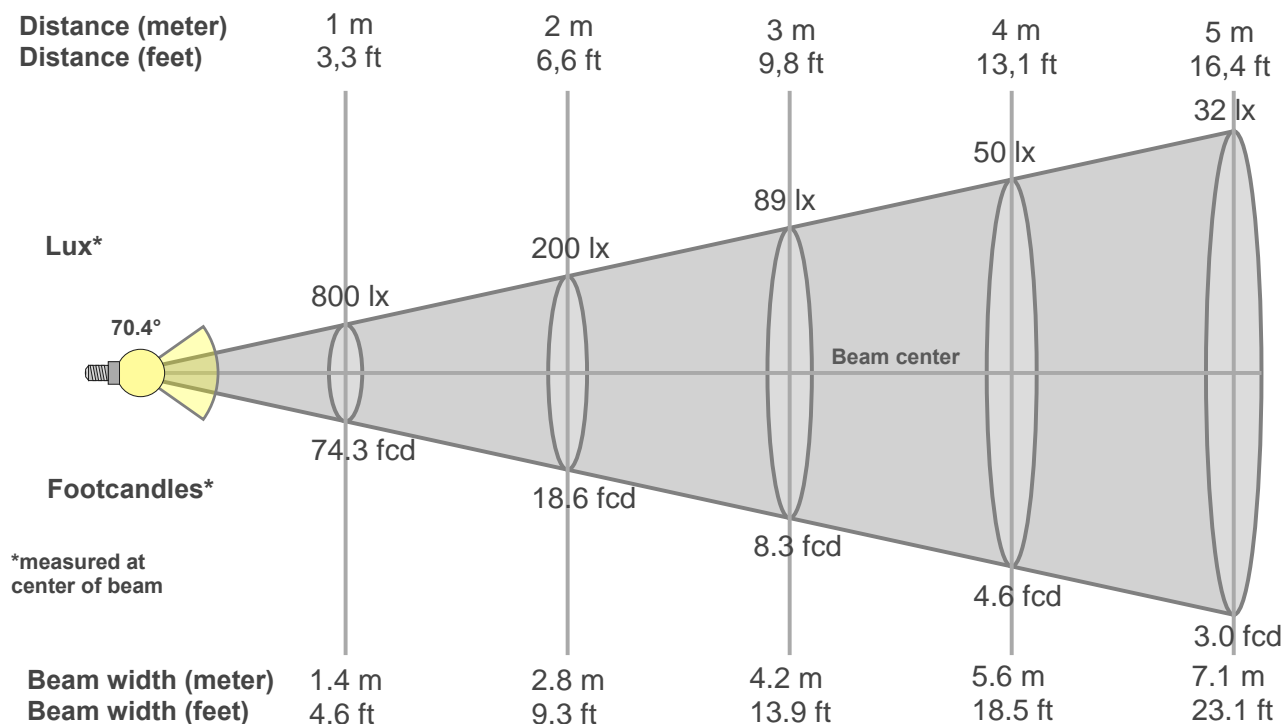
**Rg 104.0**

Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-2%
2	97	1%	-1%
3	96	1%	1%
4	95	2%	1%
5	95	3%	2%
6	92	4%	1%
7	92	4%	-2%
8	93	3%	-2%
9	94	1%	-3%
10	95	0%	-3%
11	97	0%	0%
12	94	2%	1%
13	96	2%	-1%
14	95	4%	-1%
15	95	2%	-2%
16	93	3%	-5%



## 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
800lx	200lx	89lx	50lx	32lx	22lx	16lx	13lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx
74.3fcd	18.6fcd	8.3fcd	4.6fcd	3fcd	2.1fcd	1.5fcd	1.2fcd	0.9fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd

### 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°
800	800	803	811	821	829	826	823	822	821	823	828	832	843	853	850	835	805	684	563
100%	100%	100%	101%	103%	104%	103%	103%	103%	103%	103%	103%	104%	105%	107%	106%	104%	101%	85%	70%

### 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°
800	808	817	826	835	840	834	827	827	828	829	830	831	836	841	829	805	767	658	550
100%	101%	102%	103%	104%	105%	104%	103%	103%	104%	104%	104%	104%	105%	105%	104%	101%	96%	82%	69%

### 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°
800	803	809	816	823	829	824	819	817	816	815	816	816	825	835	830	805	779	663	547
100%	100%	101%	102%	103%	104%	103%	102%	102%	102%	102%	102%	102%	103%	104%	104%	101%	97%	83%	68%

### 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°
800	798	796	799	806	812	809	806	808	812	817	825	834	844	855	852	831	808	680	552
100%	100%	100%	100%	101%	101%	101%	101%	101%	101%	102%	103%	104%	106%	107%	107%	104%	101%	85%	69%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
70.4°	81.9°	121°	95.9%	92.2%