

Light efficiency:

89 Lumen/Watt

Light quality:

CRI: 89.8

Color temperature:

3132 K

Output: 3032 lm

Peak: 3457 cd

Power: 34.2 W

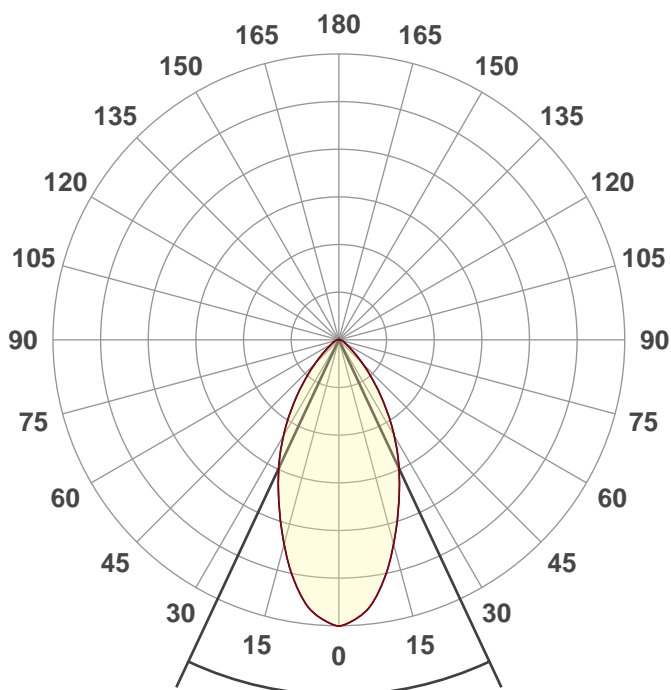
PF: 0.98



**350442-40LM-30K-90-50-120-ELV-BK**

Date and time:

11/4/2019 10:32:55 AM



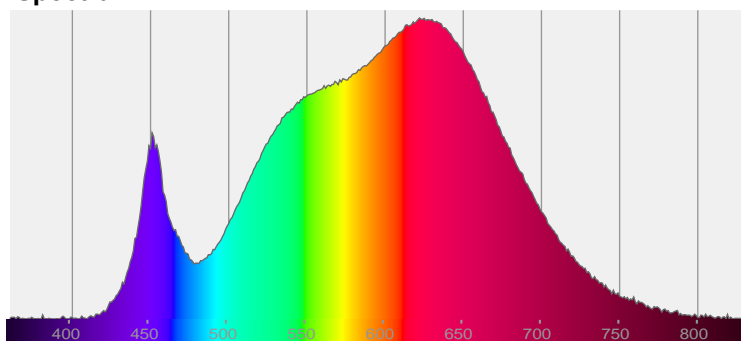
Beam angle

**50.1°**

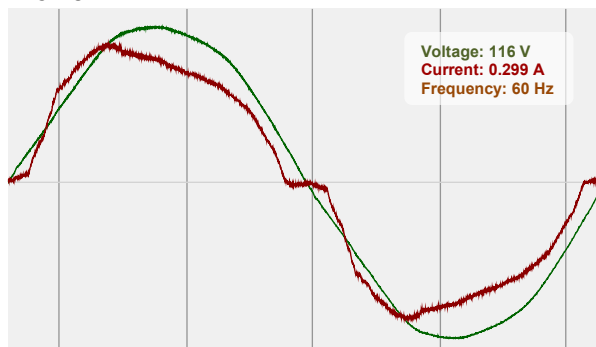


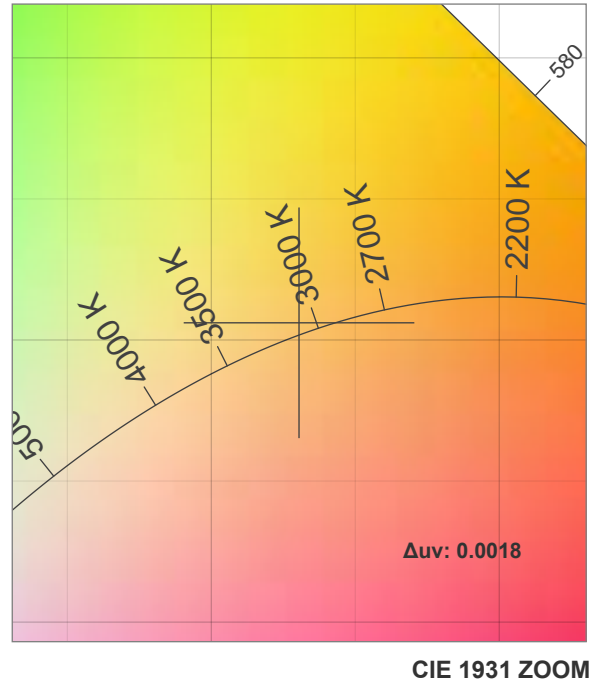
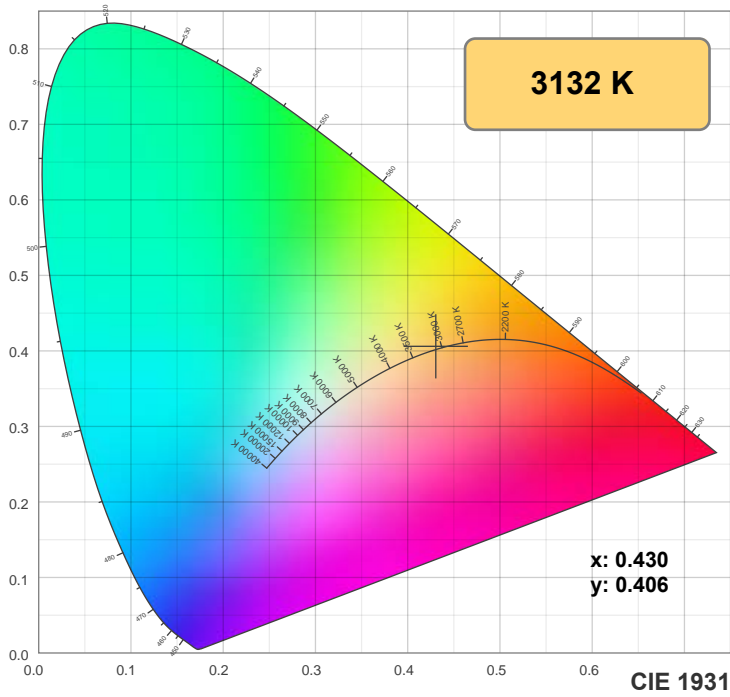
CIE 1931  
x: 0.430  
y: 0.406

Spectra

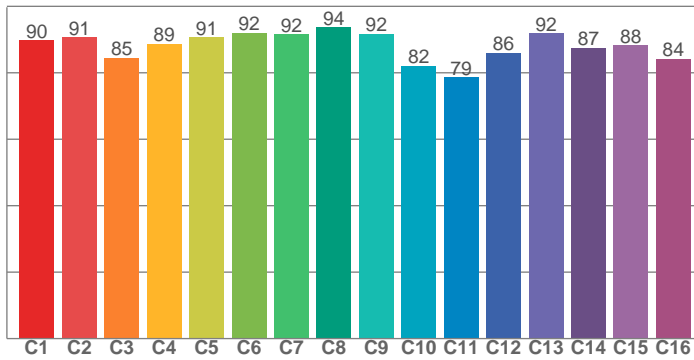


Power

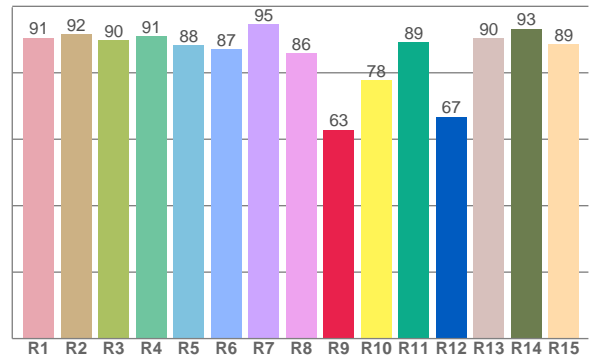




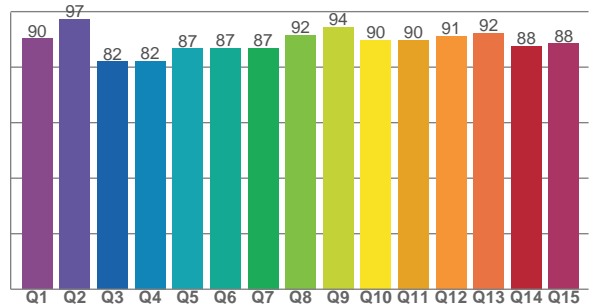
**TM30: 88.1**



**CRI: 89.8 (R1-R8)**



**CQS: 88.4**



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
90.6	91.6	89.8	91.0	88.4	87.1	94.6	85.8	62.9	77.7	89.1	66.8	90.4	93.3	88.5

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
89.8	90.7	84.5	88.7	90.7	92.0	91.5	93.6	91.8	82.0	78.7	85.9	91.8	87.5	88.2	84.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
90.3	97.4	82.1	82.3	86.7	86.8	86.9	91.6	94.4	89.7	89.8	91.2	92.2	87.7	88.4

## 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	Δuv
3132 K	89.8	62.9	88.1	100.6	88.4	0.430	0.406	0.246	0.347	0.0018

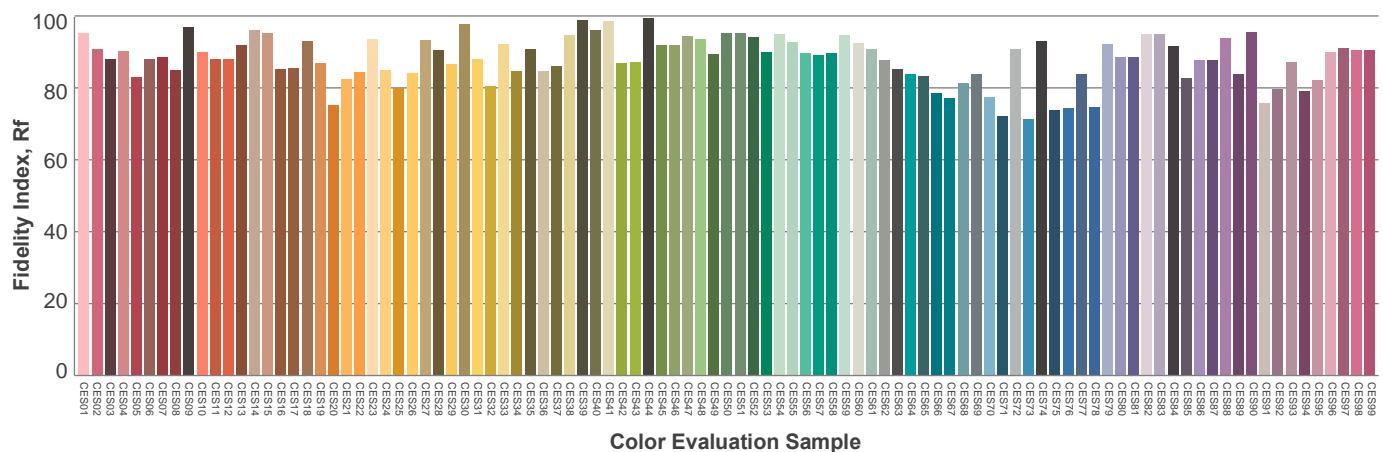
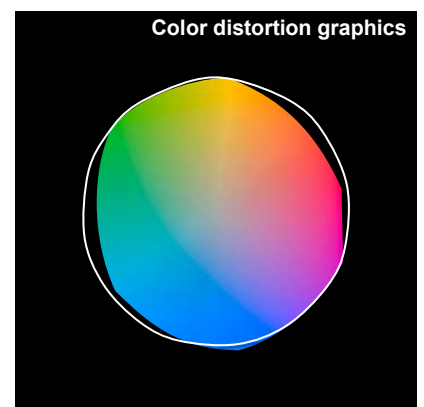
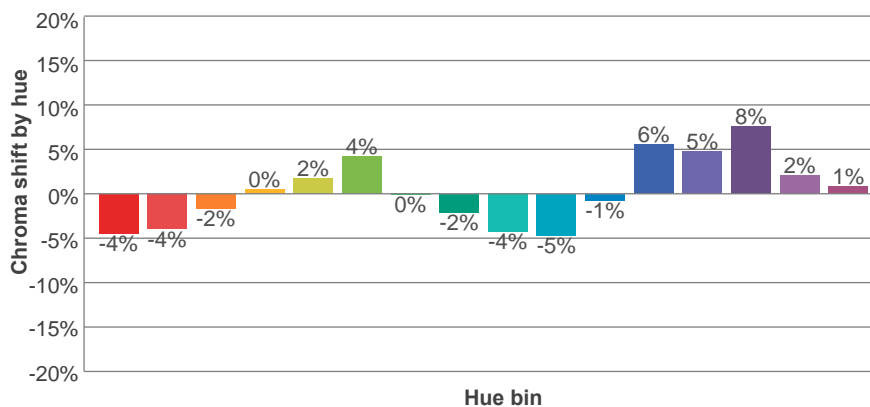
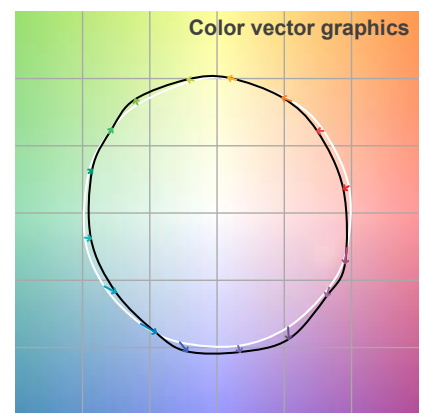
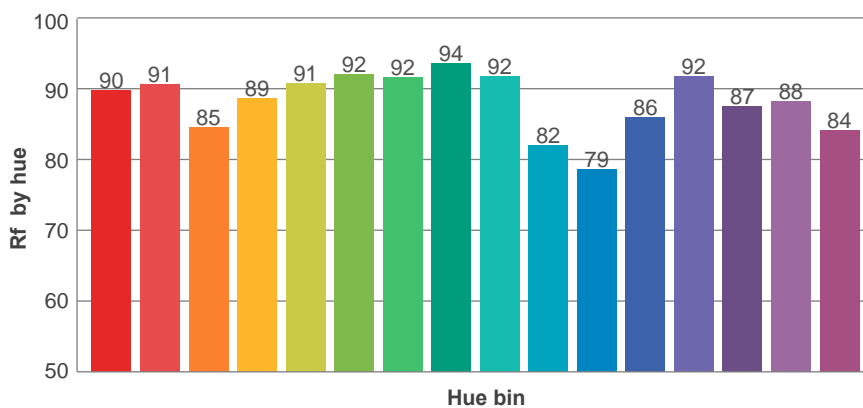
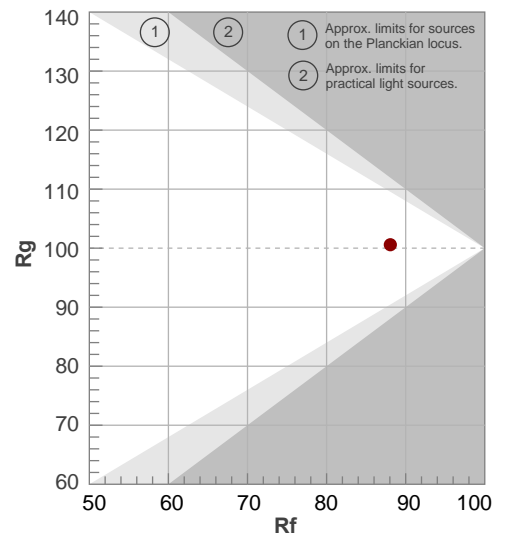
**Rf 88.1**

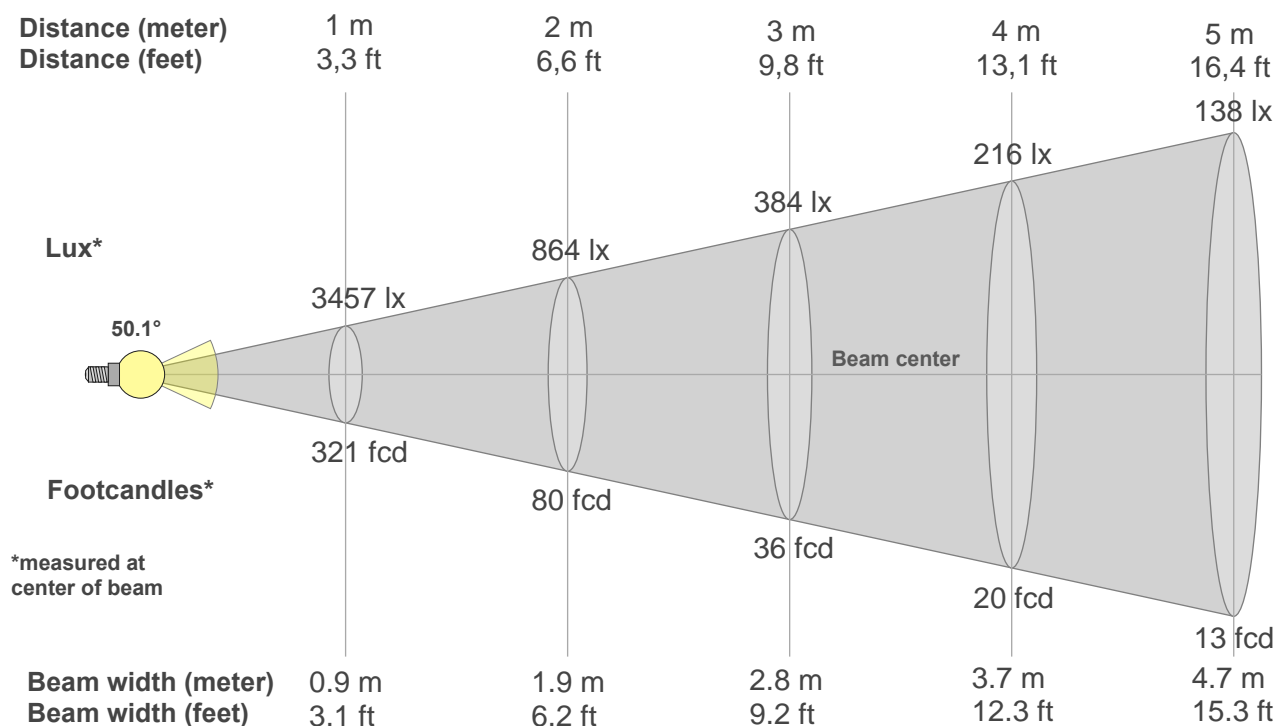
Fidelity index Rf

**Rg 100.6**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	90	-4%	-1%
2	91	-4%	3%
3	85	-2%	7%
4	89	0%	6%
5	91	2%	4%
6	92	4%	0%
7	92	0%	-4%
8	94	-2%	-3%
9	92	-4%	2%
10	82	-5%	8%
11	79	-1%	13%
12	86	6%	7%
13	92	5%	1%
14	87	8%	-4%
15	88	2%	-6%
16	84	1%	-12%





**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
3457lx	864lx	384lx	216lx	138lx	96lx	71lx	54lx	43lx	35lx	29lx	24lx	20lx	18lx	15lx	14lx	12lx	11lx	10lx	9lx
321.2fcd	80.3fcd	35.7fcd	20.1fcd	12.8fcd	8.9fcd	6.6fcd	5fcd	4fcd	3.2fcd	2.7fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.3fcd	1.1fcd	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°
3457	3439	3366	3293	3162	3009	2850	2666	2482	2306	2134	1965	1811	1657	1503	1350	1198	1054	910	782
100%	99%	97%	95%	91%	87%	82%	77%	72%	67%	62%	57%	52%	48%	43%	39%	35%	30%	26%	23%

**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°
3457	3439	3366	3293	3162	3009	2850	2666	2482	2306	2134	1965	1811	1657	1503	1350	1198	1054	910	782
100%	99%	97%	95%	91%	87%	82%	77%	72%	67%	62%	57%	52%	48%	43%	39%	35%	30%	26%	23%

**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°
3457	3439	3366	3293	3162	3009	2850	2666	2482	2306	2134	1965	1811	1657	1503	1350	1198	1054	910	782
100%	99%	97%	95%	91%	87%	82%	77%	72%	67%	62%	57%	52%	48%	43%	39%	35%	30%	26%	23%

**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°
3457	3439	3366	3293	3162	3009	2850	2666	2482	2306	2134	1965	1811	1657	1503	1350	1198	1054	910	782
100%	99%	97%	95%	91%	87%	82%	77%	72%	67%	62%	57%	52%	48%	43%	39%	35%	30%	26%	23%

Beam angle 50°	Field angle 10°	Cutoff angle 2,5°	Intensity ratio in 120° cone	Intensity ratio in 90° cone
{B_ANG}°	93.4°	125.7°	95.5%	86.6%