

Light efficiency:

87 Lumen/Watt

Light quality:

CRI: 90.6

Color temperature:

2702 K

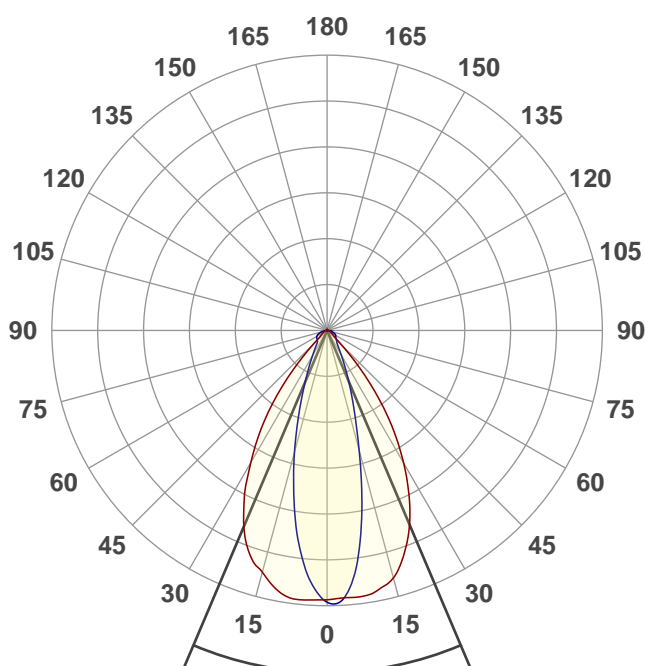
Output: 1618 lm

Peak: 2131 cd

Power: 18.5 W

PF: 0.93

2 PLANES



Beam angle

46°

Color

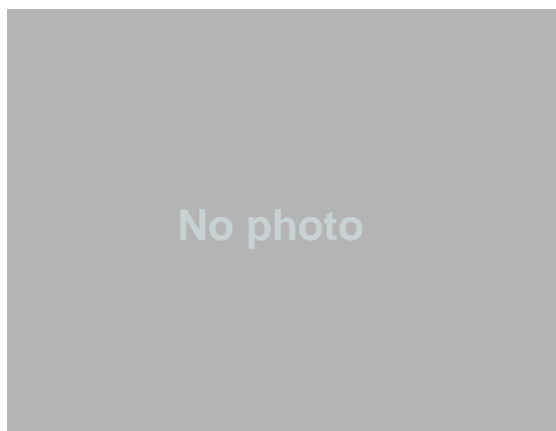
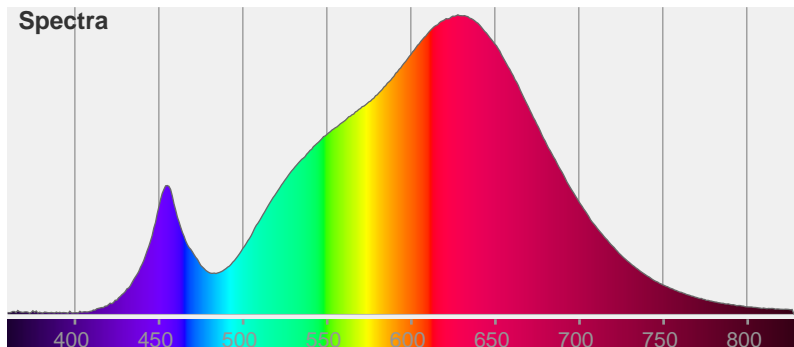


CIE1931

x: 0.457

y: 0.405

Spectra

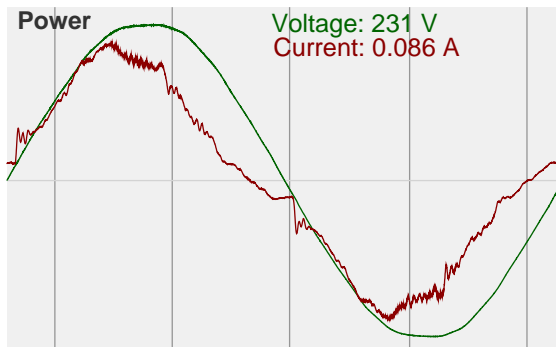


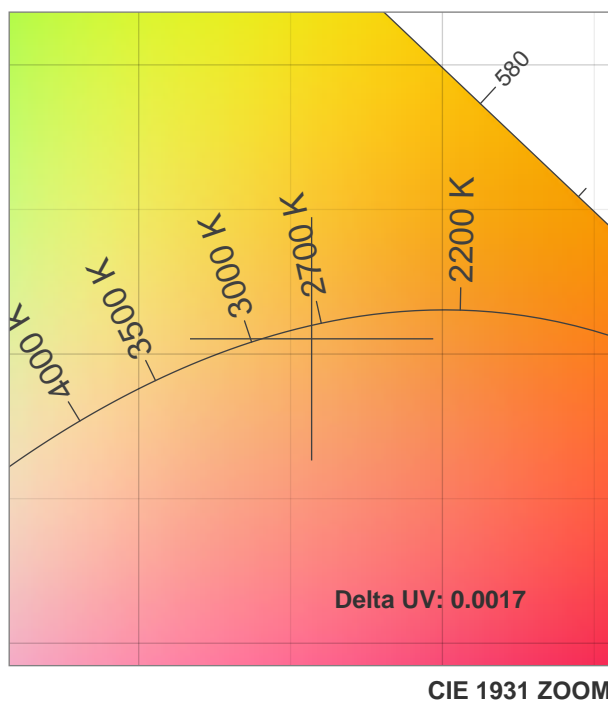
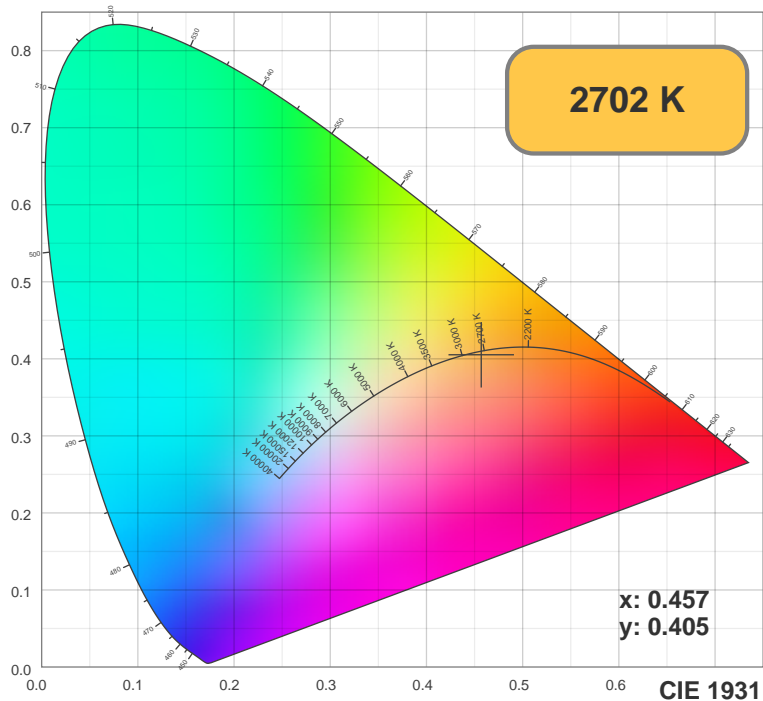
Product name:

**FIREFLY XL ELLIPTICAL DEGREE**

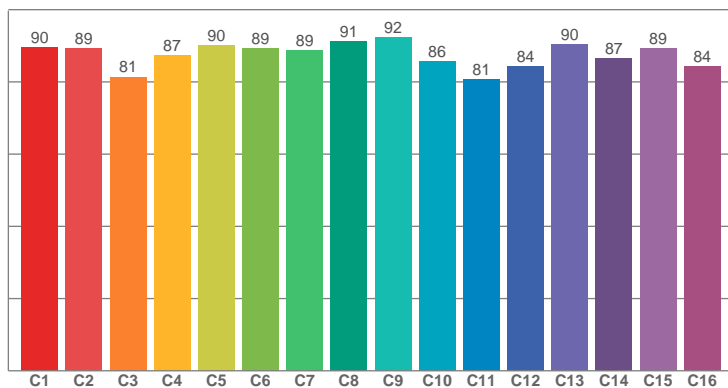
Date and time:

**1/12/2020 8:25:23 AM**

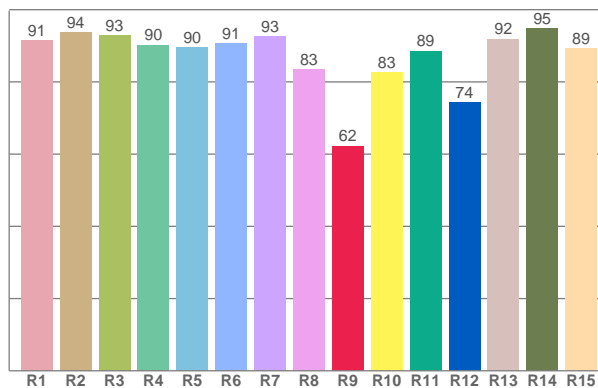




TM30: 87.3



CRI: 90.6 (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
91.44	93.79	92.80	90.25	89.55	90.62	92.69	83.40	62.26	82.68	88.57	74.39	91.87	94.72	89.32

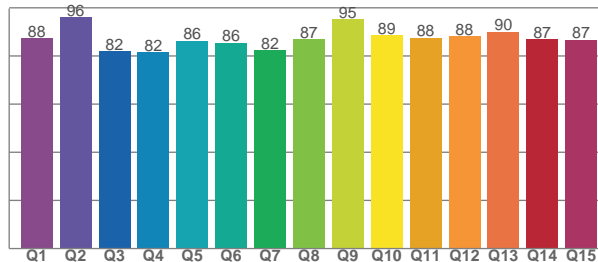
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89.53	89.19	81.41	87.28	90.19	89.24	88.71	91.15	92.28	85.62	80.74	84.23	90.41	86.54	89.36	84.23

CQS Q values

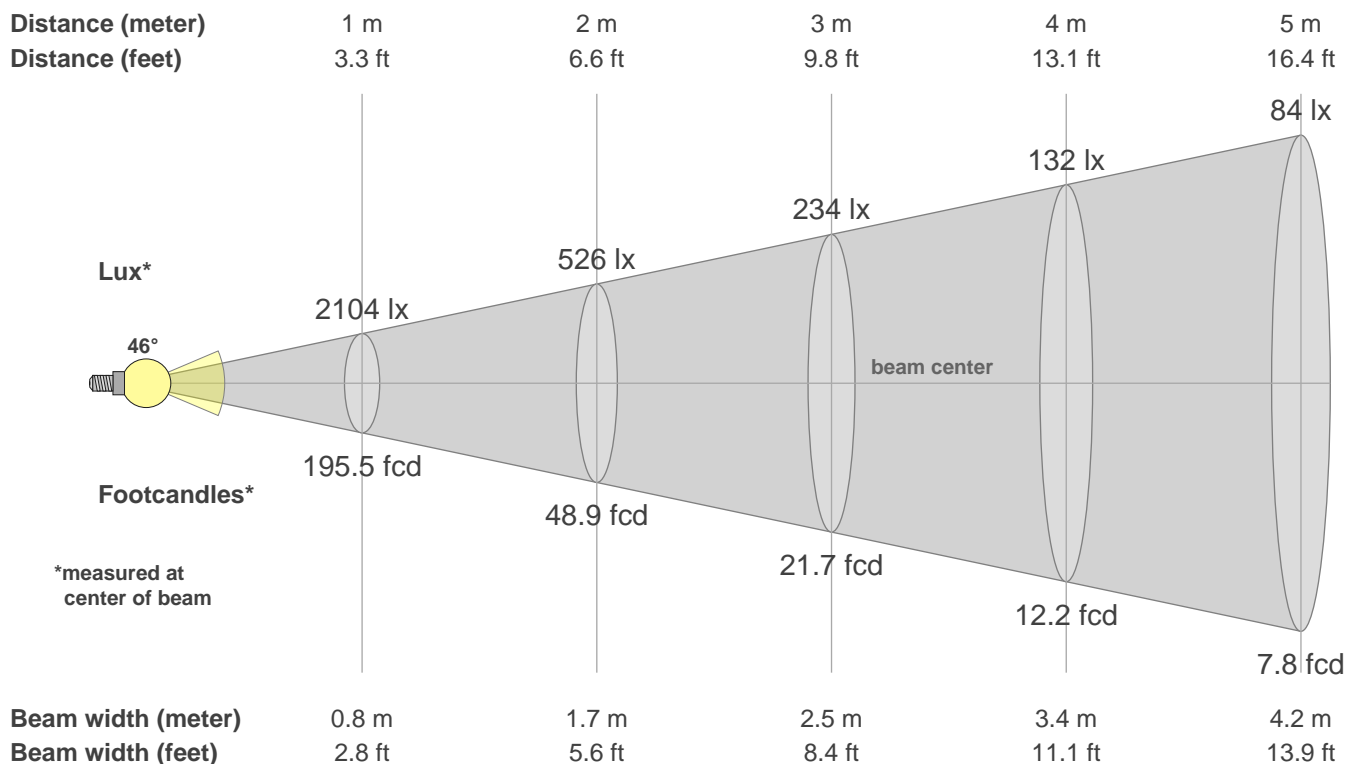
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
87.52	89.25	81.85	81.75	86.34	85.50	82.35	87.07	95.24	88.56	87.64	88.33	90.08	87.13	86.78

CQS: 86.7



## Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
2702 K	90.6	62.3	87.3	101.8	86.7	0.5	0.4	0.3	0.3	-0.0017



## 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°
2104	2091	2087	2091	2088	2076	2047	2017	1964	1885	1795	1696	1585	1461	1329	1192	1050	907	758	606
100%	99%	99%	99%	99%	99%	97%	96%	93%	90%	85%	81%	75%	69%	63%	57%	50%	43%	36%	29%

## 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°
2104	2121	2064	1939	1757	1536	1302	1073	872	711	583	478	392	321	265	220	186	159	139	127
100%	101%	98%	92%	83%	73%	62%	51%	41%	34%	28%	23%	19%	15%	13%	10%	9%	8%	7%	6%

## 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°
2104	2100	2105	2108	2101	2076	2032	1978	1928	1880	1806	1712	1598	1473	1337	1190	1050	910	764	614
100%	100%	100%	100%	100%	99%	97%	94%	92%	89%	86%	81%	76%	70%	64%	57%	50%	43%	36%	29%

## 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°
2104	2046	1943	1801	1636	1448	1253	1071	895	736	599	486	398	327	272	227	192	165	144	128
100%	97%	92%	86%	78%	69%	60%	51%	43%	35%	28%	23%	19%	16%	13%	11%	9%	8%	7%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
46.0°	74.4°	126.3°	93.3%	86.9%