

Ultra LB18



Light Efficiency:

46 Lumen/Watt

Light Quality:

CRI: 94.6

Color Temperature:

10989 K

Output: 3890 lm

Peak: 7032 cd

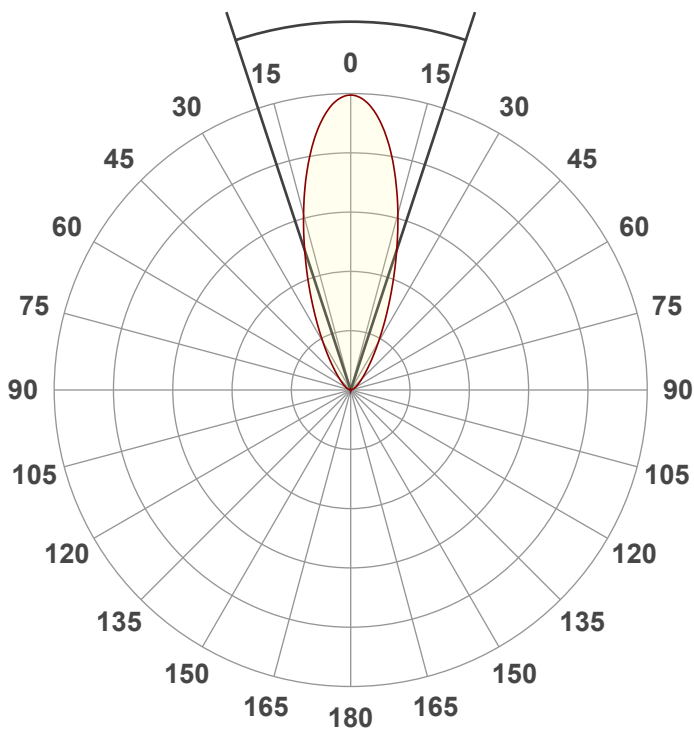
Power: 85.4 W

PF: 1.0



Beam Angle

36.4°



Test:

CRI

Date:

1/12/2023

Note:

R @ 74

G @ 255

B @ 214

A @ 150

L @ 229

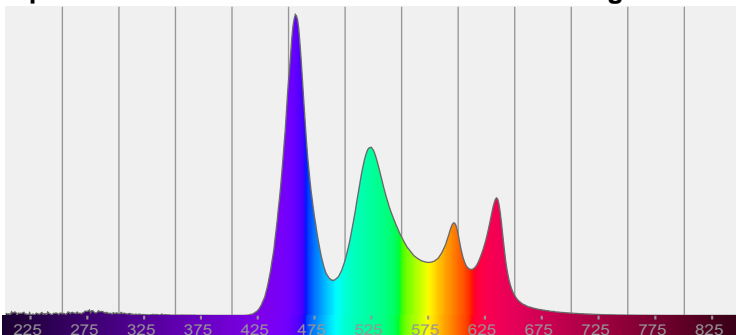
CIE 1931

x: 0.268

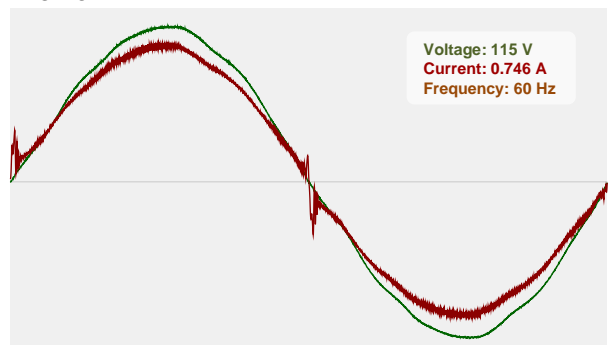
y: 0.295

Spectra

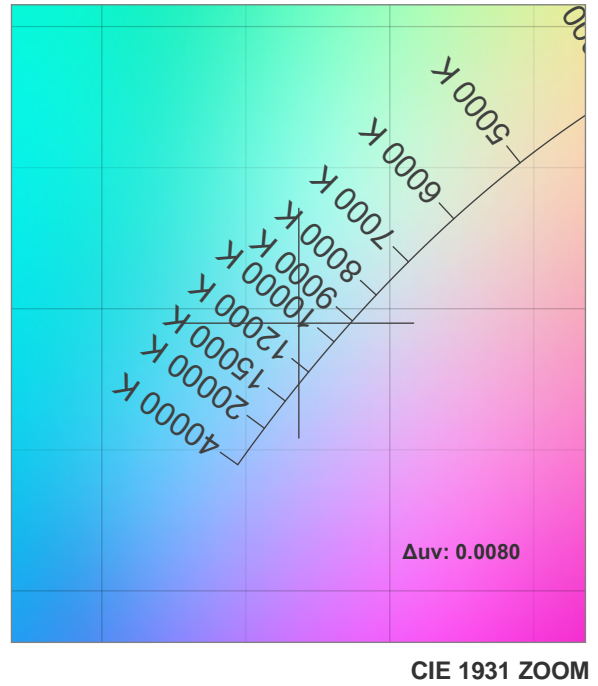
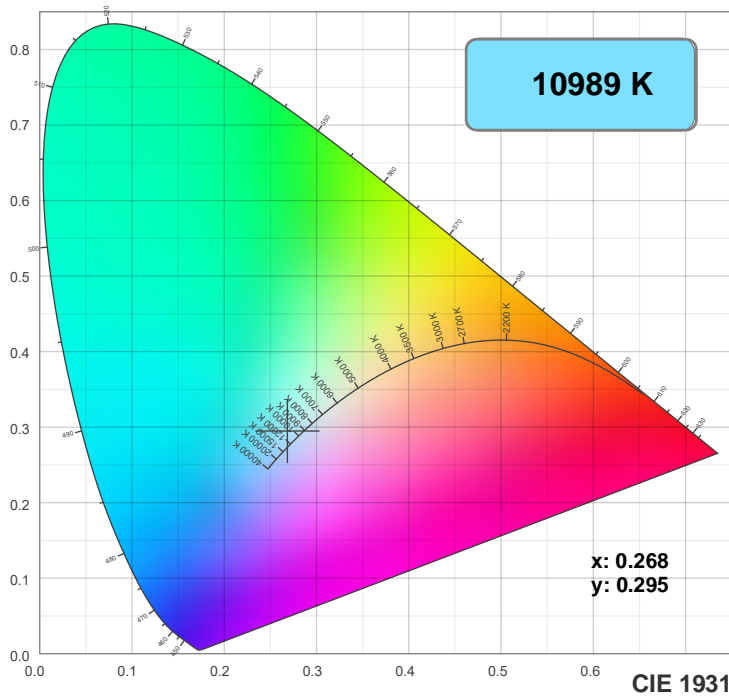
Dominant Wavelength: 482nm



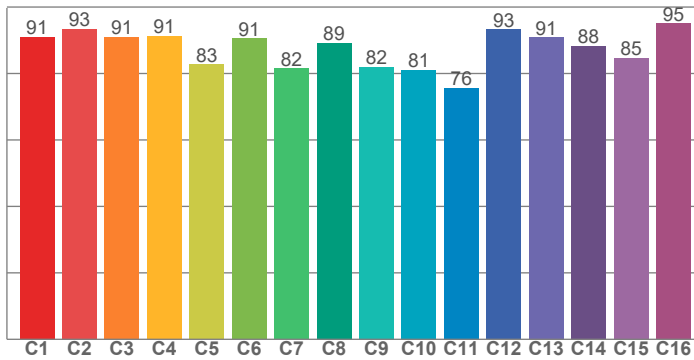
Power



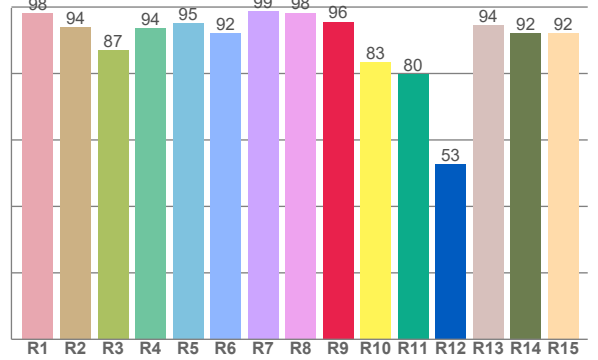
Color Details



TM30: 87.7



CRI: 94.6 (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
98.1	93.9	86.9	93.6	95.1	92.1	98.6	98.2	95.6	83.3	79.9	52.6	94.4	92.2	92.1

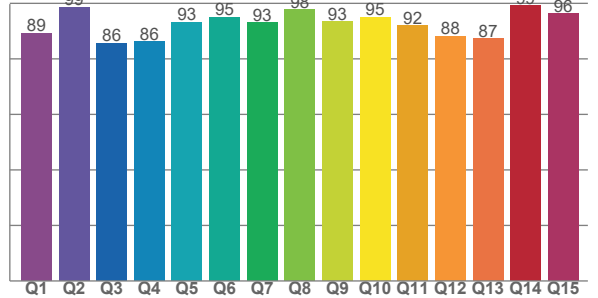
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.0	93.4	91.1	91.3	82.7	90.6	81.5	89.1	82.0	81.0	75.6	93.2	90.9	88.3	84.6	95.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89.2	98.7	85.7	86.2	93.2	95.1	93.0	97.7	93.4	95.0	92.0	88.1	87.2	99.2	96.3

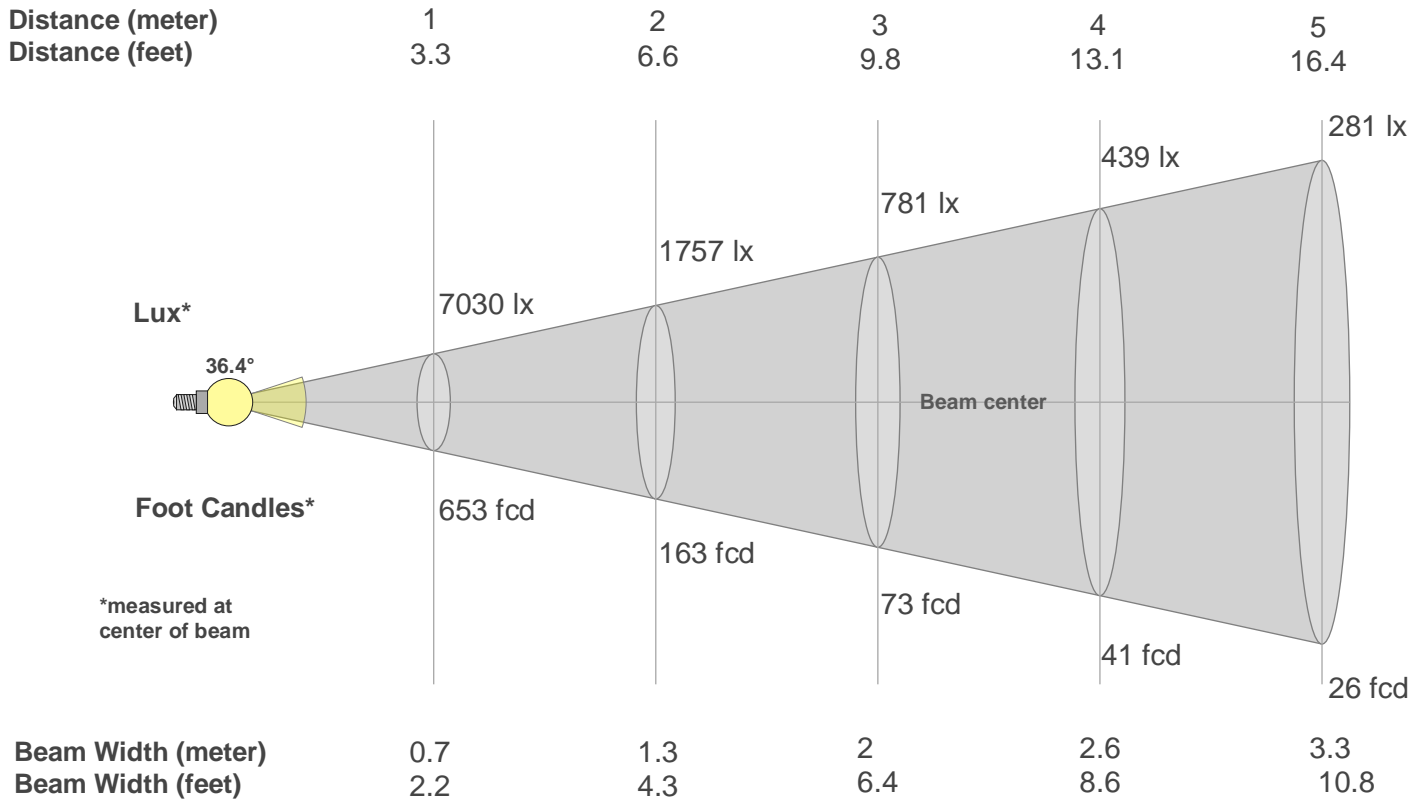
CQS: 91.5



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	Δuv
10989 K	94.6	95.6	87.7	98.3	91.5	0.268	0.295	0.179	0.295	0.0080

Beam Details



Beam Intensities from 1-20m

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	7030	1757	781	439	281	195	143	110	87	70	58	49	42	36	31	27	24	22	19	18
fcd	653.1	163.3	72.6	40.8	26.1	18.1	13.3	10.2	8.1	6.5	5.4	4.5	3.9	3.3	2.9	2.6	2.3	2	1.8	1.6

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°
7030	6968	6788	6485	6102	5643	5141	4612	4082	3568	3088	2643	2242	1890	1587	1327	1112	931	783	657
100%	99%	97%	92%	87%	80%	73%	66%	58%	51%	44%	38%	32%	27%	23%	19%	16%	13%	11%	9%

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°
7030	6968	6788	6485	6102	5643	5141	4612	4082	3568	3088	2643	2242	1890	1587	1327	1112	931	783	657
100%	99%	97%	92%	87%	80%	73%	66%	58%	51%	44%	38%	32%	27%	23%	19%	16%	13%	11%	9%

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°
7030	6970	6783	6487	6106	5653	5146	4622	4084	3568	3081	2637	2239	1888	1583	1326	1108	929	778	657
100%	99%	96%	92%	87%	80%	73%	66%	58%	51%	44%	38%	32%	27%	23%	19%	16%	13%	11%	9%

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°
7030	6970	6783	6487	6106	5653	5146	4622	4084	3568	3081	2637	2239	1888	1583	1326	1108	929	778	657
100%	99%	96%	92%	87%	80%	73%	66%	58%	51%	44%	38%	32%	27%	23%	19%	16%	13%	11%	9%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
36.4°	74.4°	111.8°	96.6%	88.9%