

Ultra LB18



Light Efficiency:

21 Lumen/Watt

Light Quality:

CRI: -39.2

Color Temperature:

1541 K

Output: 967 lm

Peak: 1641 cd

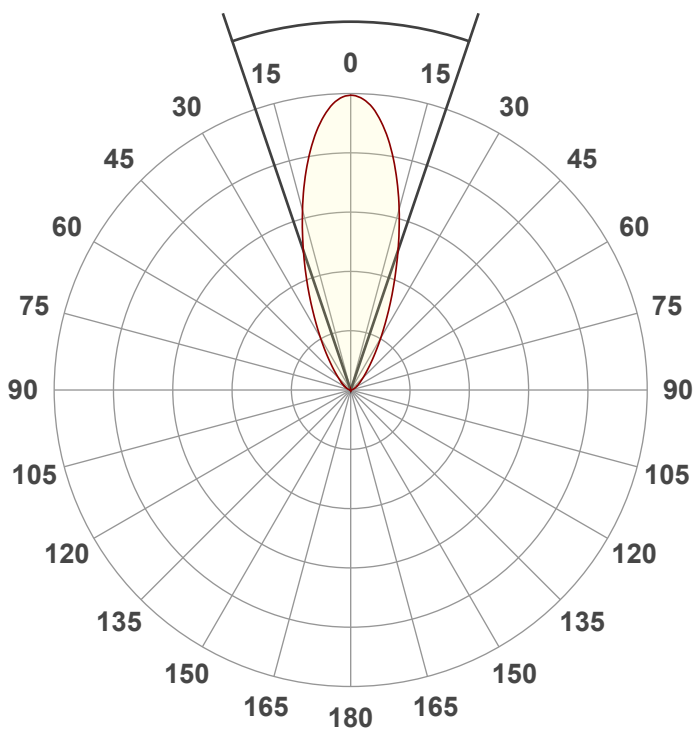
Power: 46.0 W

PF: 0.99



Beam Angle

37.5°



Test:

Amber

Date:

1/12/2023

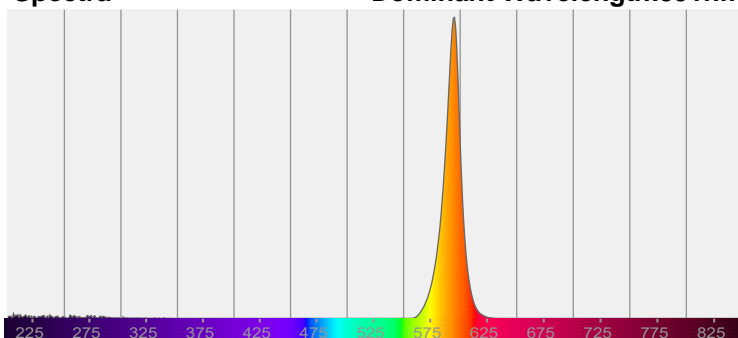
Note:



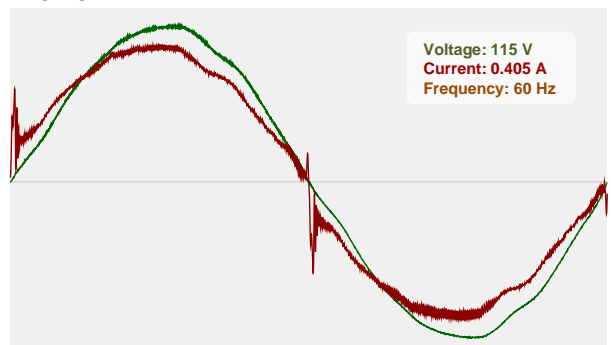
CIE 1931
x: 0.612
y: 0.431

Spectra

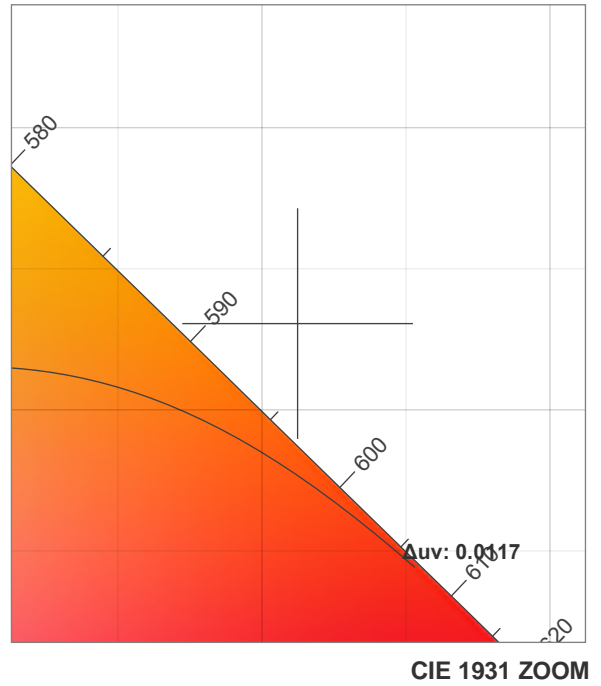
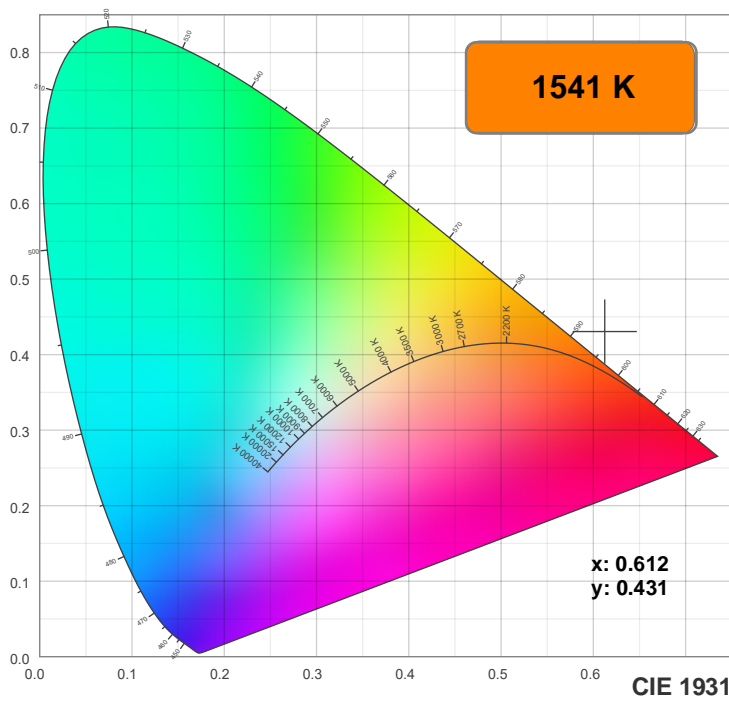
Dominant Wavelength: 591nm



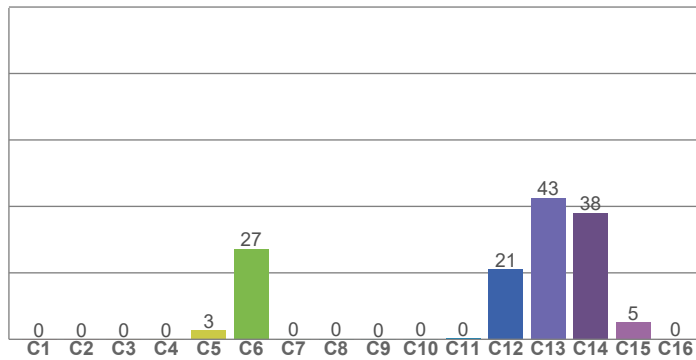
Power



Color Details



TM30: 0.1



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
-57.2	40.6	11.4	-97.1	-69.1	20.0	-11.8	-150.5	-434.9	11.5	-139.5	-49.3	-37.7	40.6	-85.9

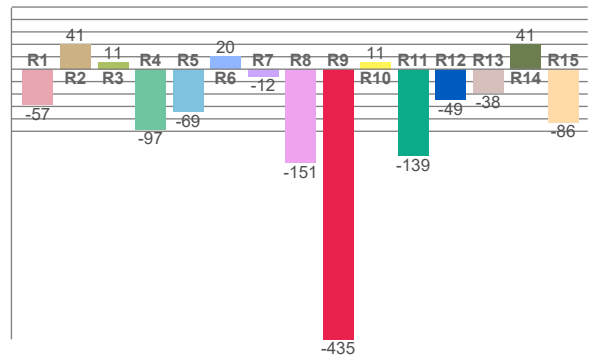
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	2.7	27.2	0.1	0.1	0.0	0.1	0.3	21.1	42.6	38.0	5.1	0.1

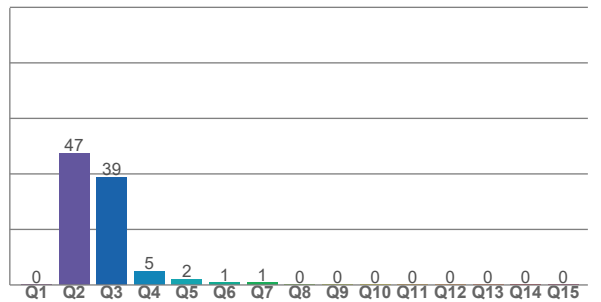
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	47.4	38.8	4.9	2.1	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

CRI: -39.2 (R1-R8)



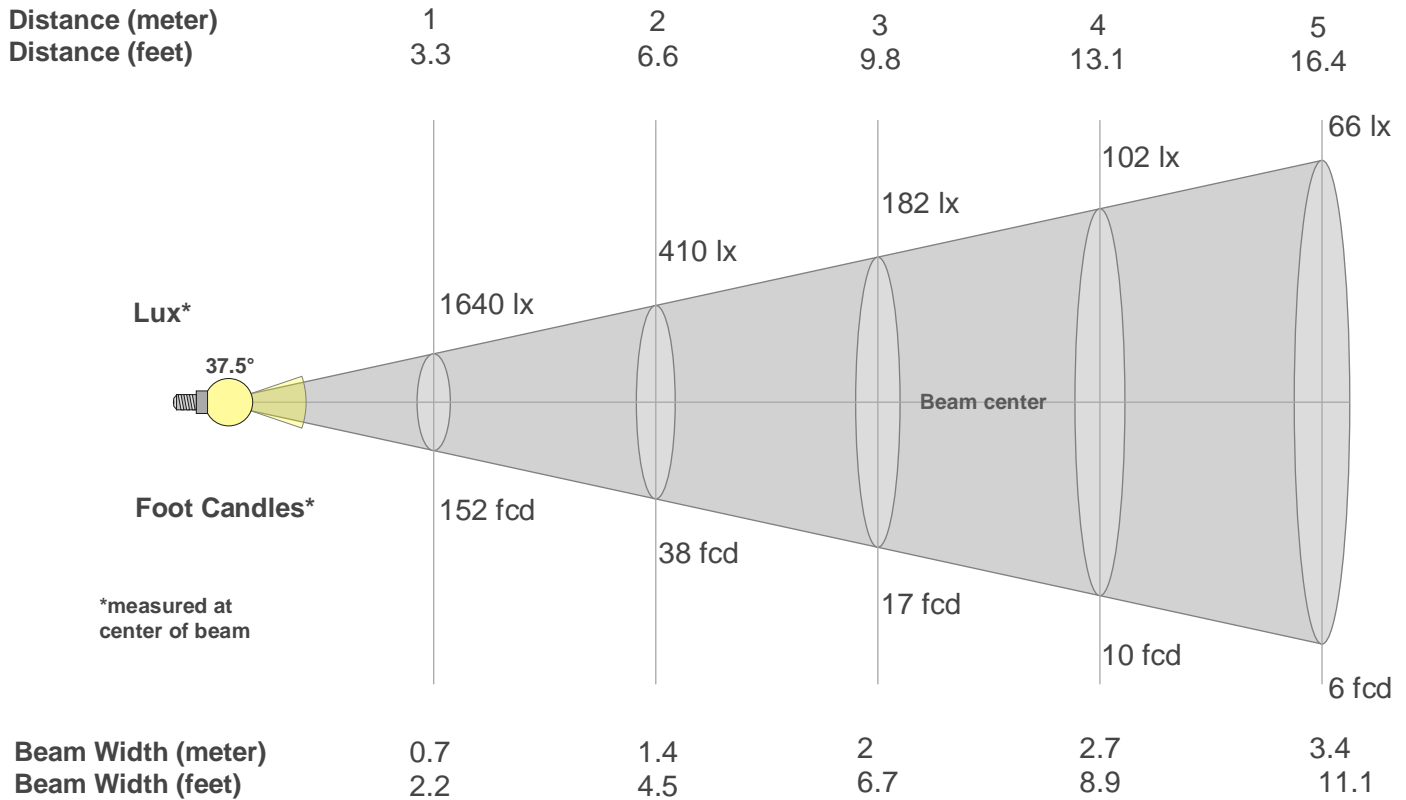
CQS: n/a



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
1541 K	-39.2	-434.9	0.1	3.0	n/a	0.612	0.431	0.353	0.372	0.0117

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	1640	410	182	102	66	46	33	26	20	16	14	11	10	8	7	6	6	5	5	4
fcd	152.3	38.1	16.9	9.5	6.1	4.2	3.1	2.4	1.9	1.5	1.3	1.1	0.9	0.8	0.7	0.6	0.5	0.5	0.4	0.4

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°
1640	1625	1583	1516	1430	1328	1216	1098	978	862	753	650	557	473	401	338	285	240	202	171
100%	99%	97%	92%	87%	81%	74%	67%	60%	53%	46%	40%	34%	29%	24%	21%	17%	15%	12%	10%

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°
1640	1625	1583	1516	1430	1328	1216	1098	978	862	753	650	557	473	401	338	285	240	202	171
100%	99%	97%	92%	87%	81%	74%	67%	60%	53%	46%	40%	34%	29%	24%	21%	17%	15%	12%	10%

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°
1640	1626	1587	1521	1436	1334	1221	1103	981	863	751	647	554	470	398	335	282	237	200	169
100%	99%	97%	93%	88%	81%	74%	67%	60%	53%	46%	39%	34%	29%	24%	20%	17%	14%	12%	10%

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°
1640	1626	1587	1521	1436	1334	1221	1103	981	863	751	647	554	470	398	335	282	237	200	169
100%	99%	97%	93%	88%	81%	74%	67%	60%	53%	46%	39%	34%	29%	24%	20%	17%	14%	12%	10%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
37.5°	76.8°	116.8°	95.7%	87.6%