

# Ultra LB18 NO Diffuser



Light Efficiency:

30 Lumen/Watt

Light Quality:

CRI: -40.2

Color Temperature:

1570 K

Output: 1413 lm

Peak: 4145 cd

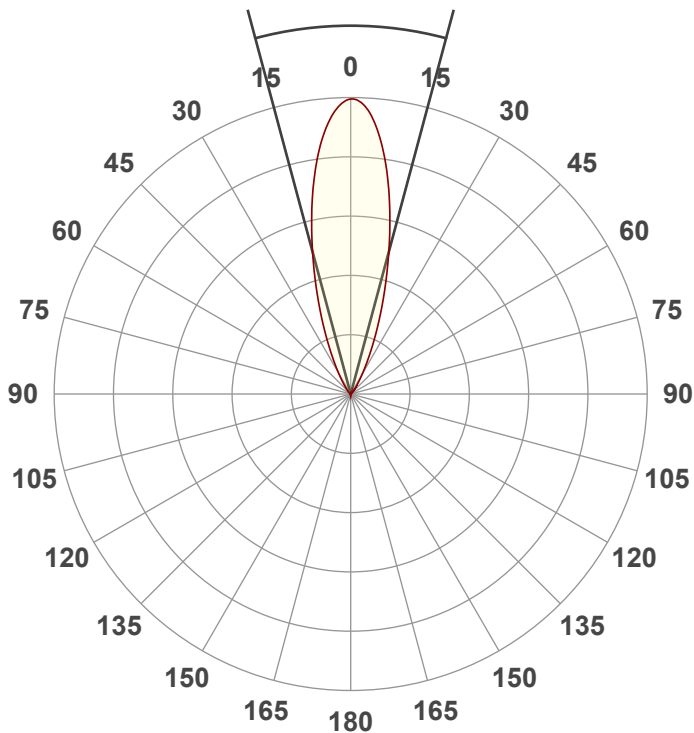
Power: 46.4 W

PF: 0.99



Beam Angle

30°



Test:

Amber

Date:

1/13/2023

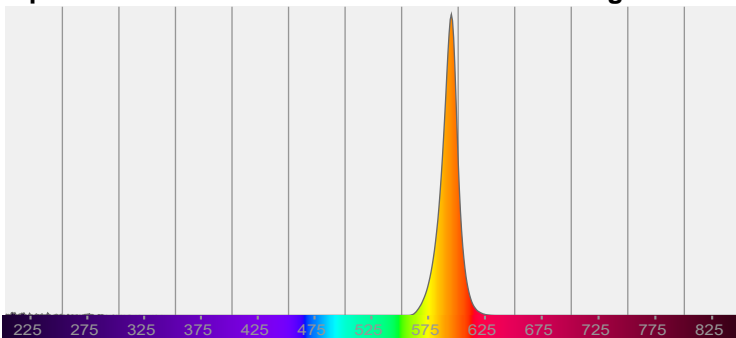
Note:



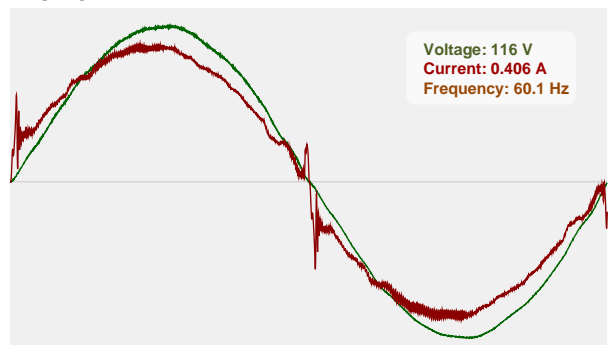
CIE 1931  
x: 0.611  
y: 0.435

Spectra

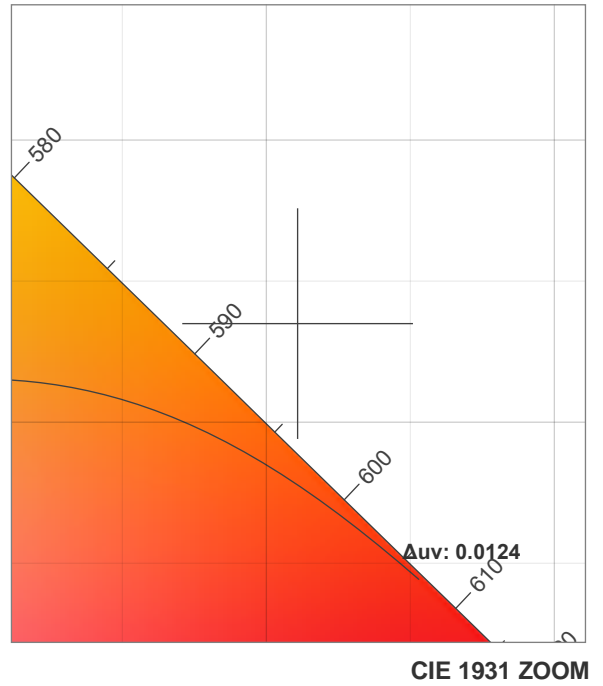
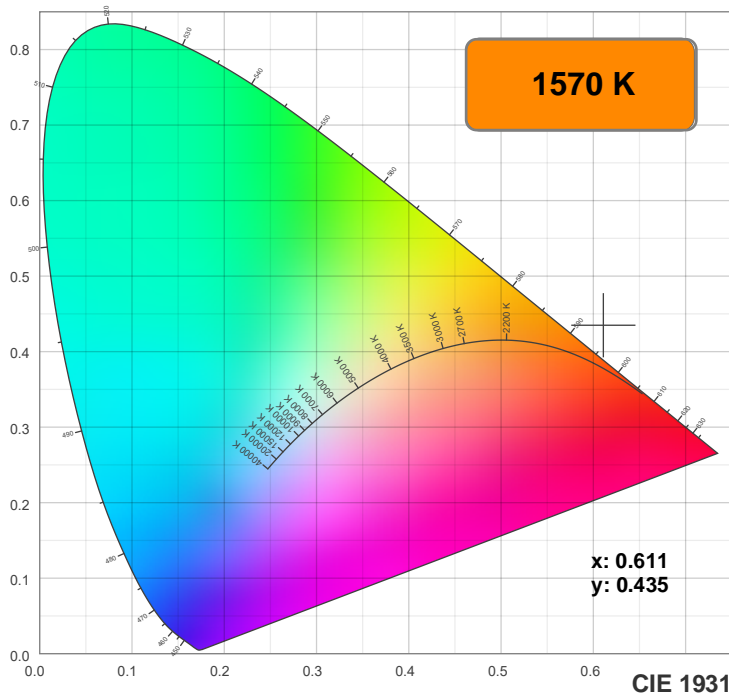
Dominant Wavelength: 590nm



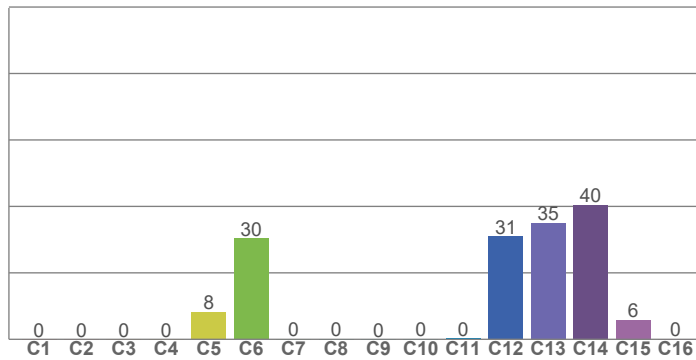
Power



## 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
-59.1	39.3	12.1	-98.0	-70.5	17.3	-11.3	-151.1	-441.0	9.1	-141.5	-53.5	-39.6	40.8	-87.3

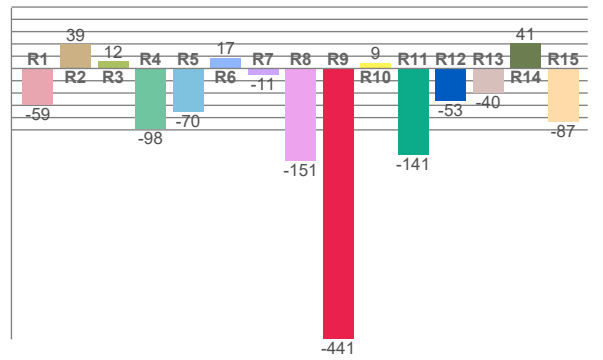
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	8.3	30.3	0.1	0.1	0.0	0.1	0.3	30.9	35.0	40.5	5.8	0.1

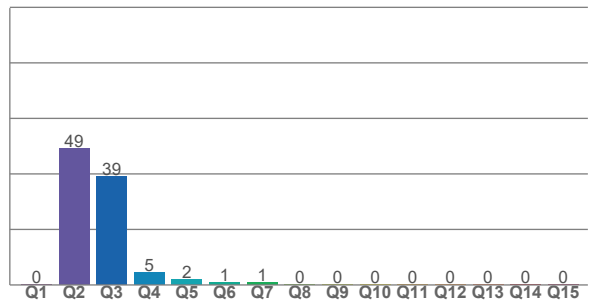
CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	49.2	39.1	4.5	2.0	0.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1

CRI: -40.2 (R1-R8)



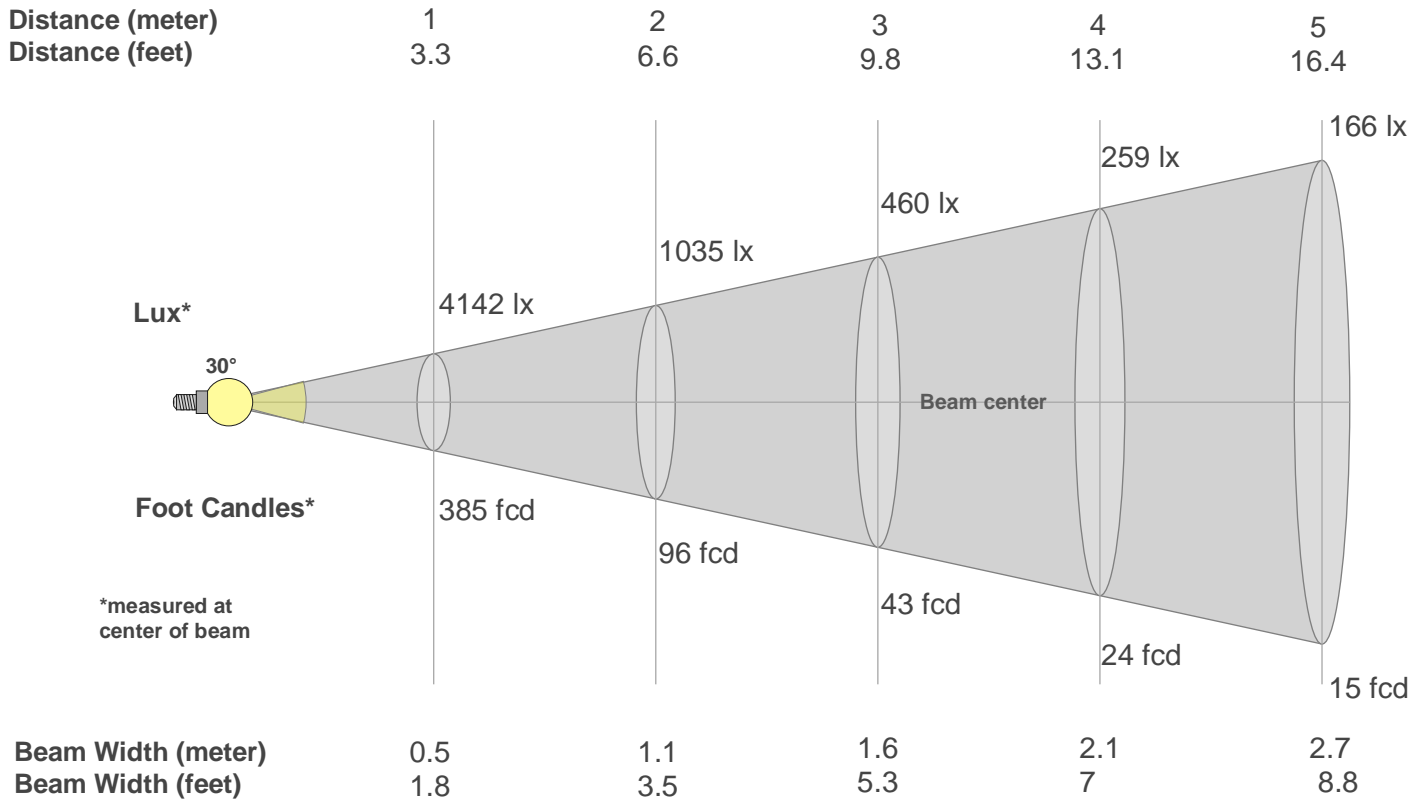
CQS: n/a



## 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	$\Delta uv$
1570 K	-40.2	-441.0	0.1	1.6	n/a	0.611	0.435	0.349	0.373	0.0124

## 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	4142	1035	460	259	166	115	85	65	51	41	34	29	25	21	18	16	14	13	11	10
fcd	384.8	96.2	42.8	24	15.4	10.7	7.9	6	4.8	3.8	3.2	2.7	2.3	2	1.7	1.5	1.3	1.2	1.1	1

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°
4142	4074	3905	3660	3357	3004	2631	2255	1897	1565	1265	1007	784	601	458	344	258	194	146	112
100%	98%	94%	88%	81%	73%	64%	54%	46%	38%	31%	24%	19%	15%	11%	8%	6%	5%	4%	3%

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°
4142	4074	3905	3660	3357	3004	2631	2255	1897	1565	1265	1007	784	601	458	344	258	194	146	112
100%	98%	94%	88%	81%	73%	64%	54%	46%	38%	31%	24%	19%	15%	11%	8%	6%	5%	4%	3%

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°
4142	4100	3951	3697	3385	3027	2644	2260	1891	1557	1257	992	772	588	440	329	243	181	137	105
100%	99%	95%	89%	82%	73%	64%	55%	46%	38%	30%	24%	19%	14%	11%	8%	6%	4%	3%	3%

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°
4142	4100	3951	3697	3385	3027	2644	2260	1891	1557	1257	992	772	588	440	329	243	181	137	105
100%	99%	95%	89%	82%	73%	64%	55%	46%	38%	30%	24%	19%	14%	11%	8%	6%	4%	3%	3%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
30°	57.1°	76.7°	98.8%	96.1%