

Hydro Beam X12



Light Efficiency:

5514 Lumen/Watt

Light Quality:

CRI: 77.8

Color Temperature:

7206 K

Output: 2194761 lm

Peak: 40085296

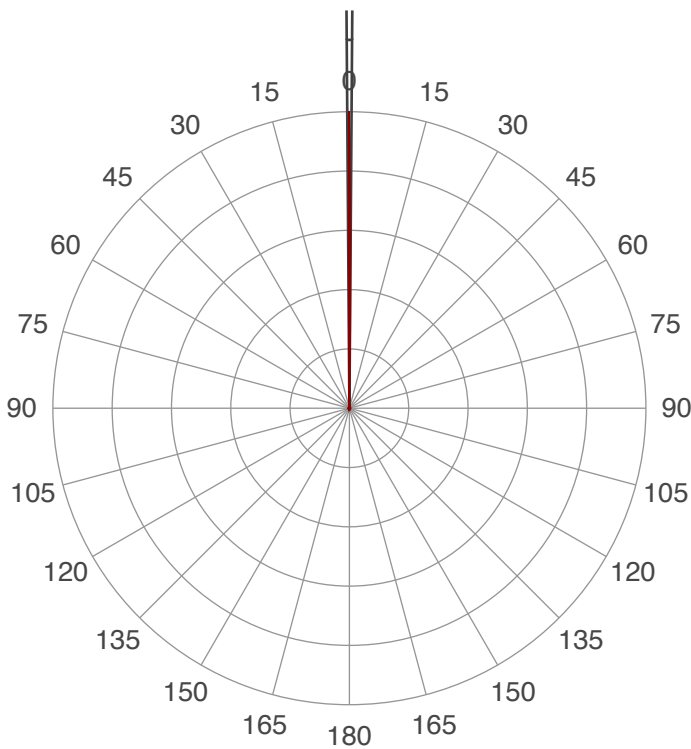
Power: 398.1 W

PF: 1.0



Beam Angle

0.8°



Test:

Beam

Date:

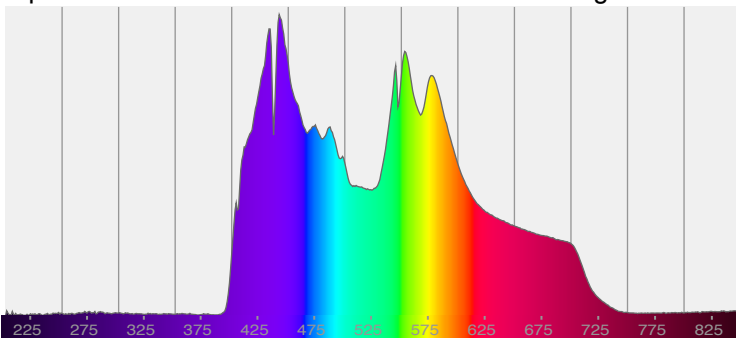
7/21/2022

Note:

CIE 1931
x: 0.304
y: 0.314

Spectra

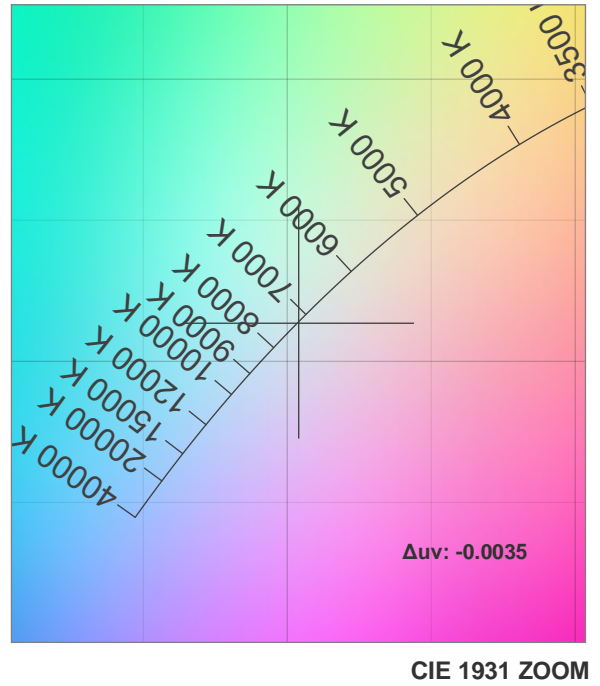
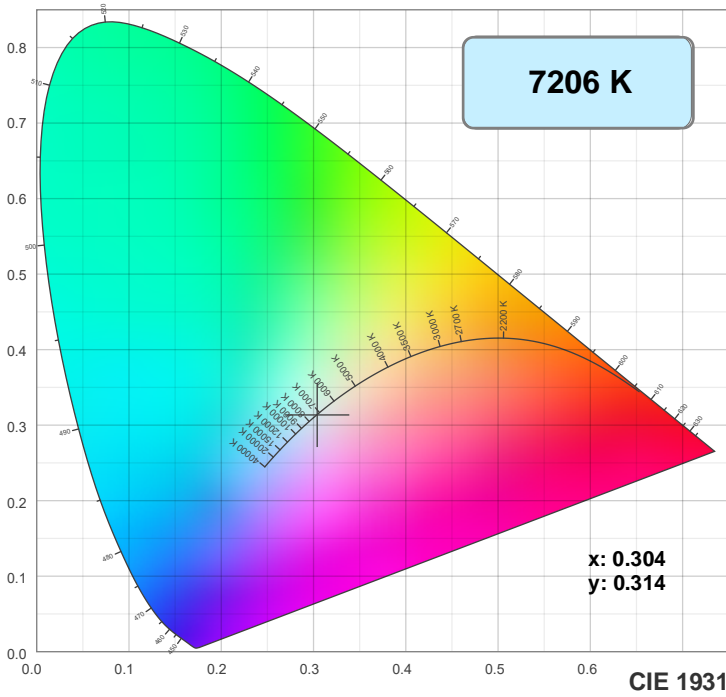
Dominant Wavelength: 460 nm



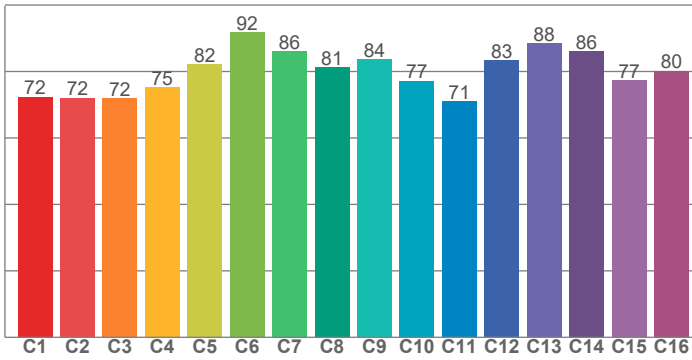
Power

Voltage: 117 V
Current: 3.39 A
Frequency: 0 Hz

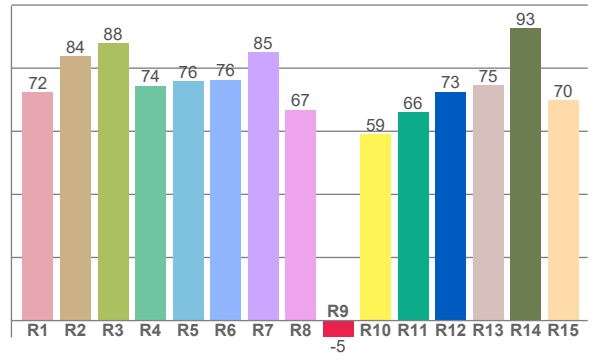
Color Details



TM30: 80.0



CRI: 77.8 (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
72.5	83.7	88.0	74.4	75.9	76.4	85.1	66.8	-5.3	59.1	66.0	72.5	74.7	92.7	69.8

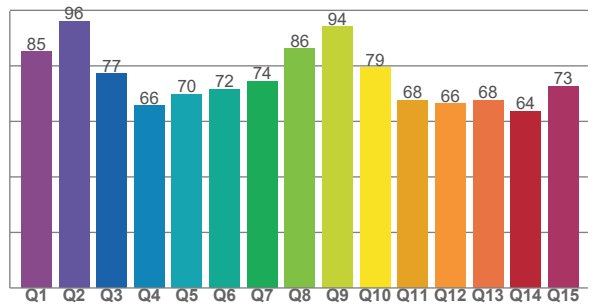
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
72.3	72.0	71.9	75.3	82.1	91.8	86.1	81.2	83.6	77.1	71.0	83.3	88.5	86.1	77.3	80.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.2	96.2	77.2	65.6	69.9	71.7	74.5	86.1	94.1	79.3	67.6	66.4	67.7	63.8	72.7

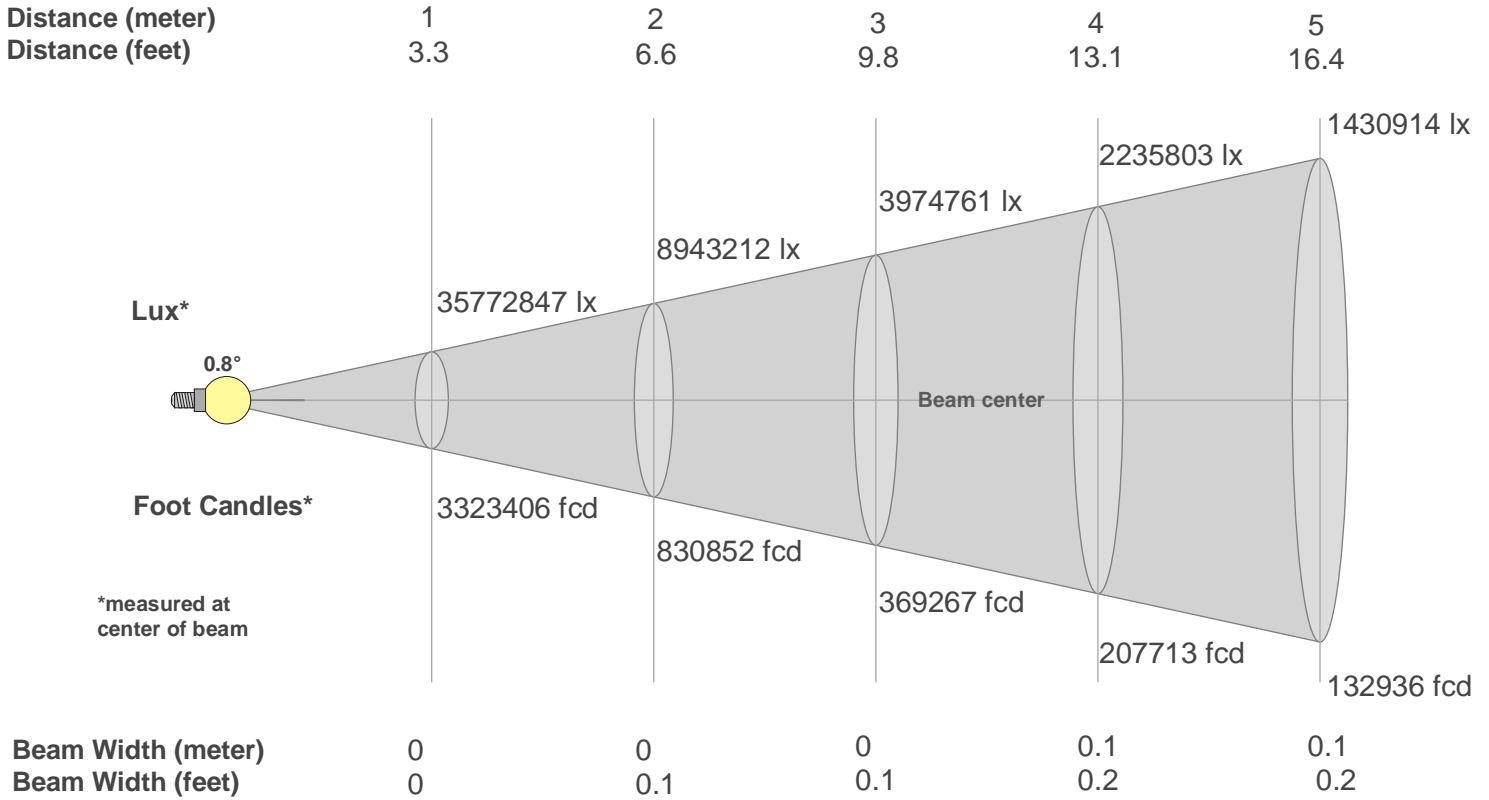
CQS: 73.9



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
7206 K	77.8	-5.3	80.0	92.3	73.9	0.304	0.314	0.198	0.306	-0.0035

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	35772847	8943212	3974761	2235803	1430914	993690	730058	558951	441640	357728	295643	248423	211674	182515	158990	139738	123781	110410	99094	89432
fcd	3323406	830852	369267	207712	132936	923168	678246	519282	410297	332341	274662	230792	196651	169562	147707	129821	114997	102574	92061	83085

Intensities in 0° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	
36M	2M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M
100%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 90° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	
36M	2M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M
100%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 180° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	
36M	2M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M
100%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Intensities in 270° C-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	
36M	2M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M	0M
100%	5%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
0.8°	1.7°	2.3°	100.0%	100.0%