

# Hydro Beam X7

Light Efficiency:

10 Lumen/Watt

Light Quality:

CRI: 70.4

Color Temperature:

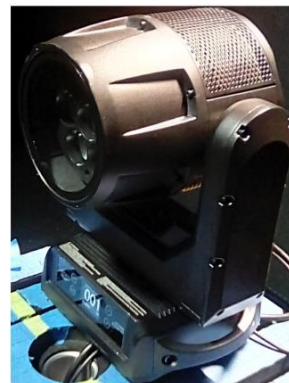
7638 K

Output: 1122 lm

Peak: 79422 cd

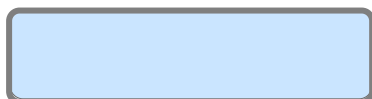
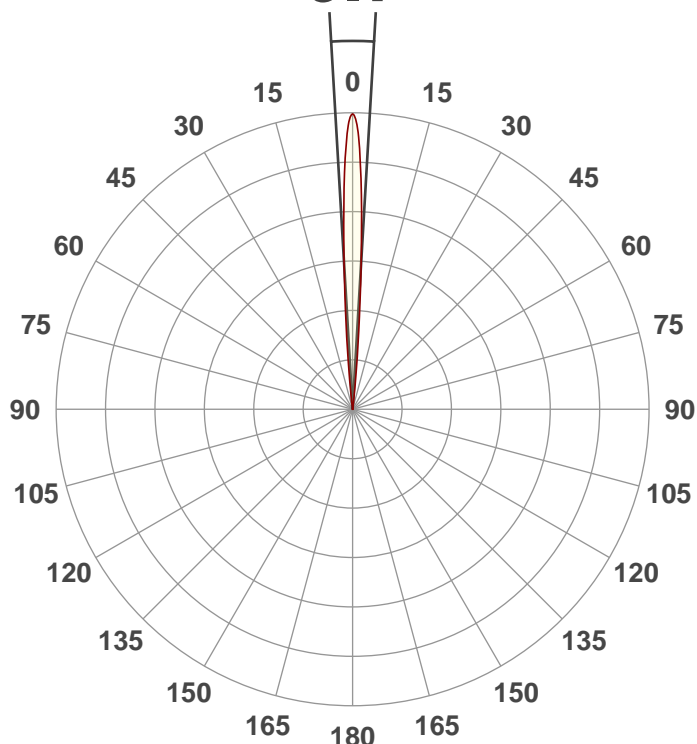
Power: 109.7 W

PF: 0.99



Beam Angle

6.7°



CIE 1931  
x: 0.302  
y: 0.299

Product Name:

Hydro Beam X7

Test:

Zoom In White

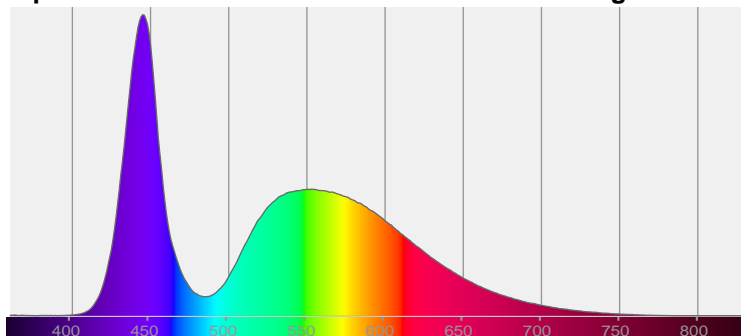
Date:

6/20/2019

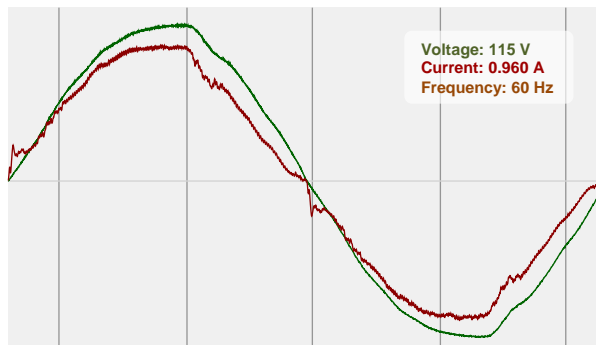
Note:

Spectra

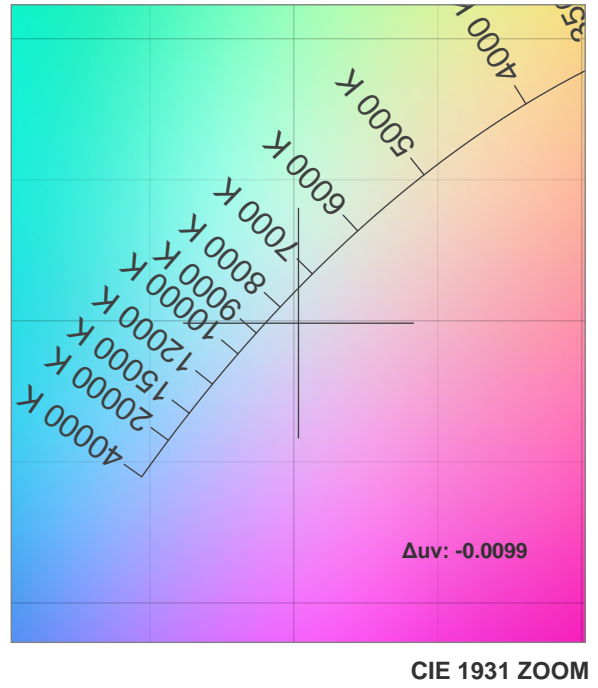
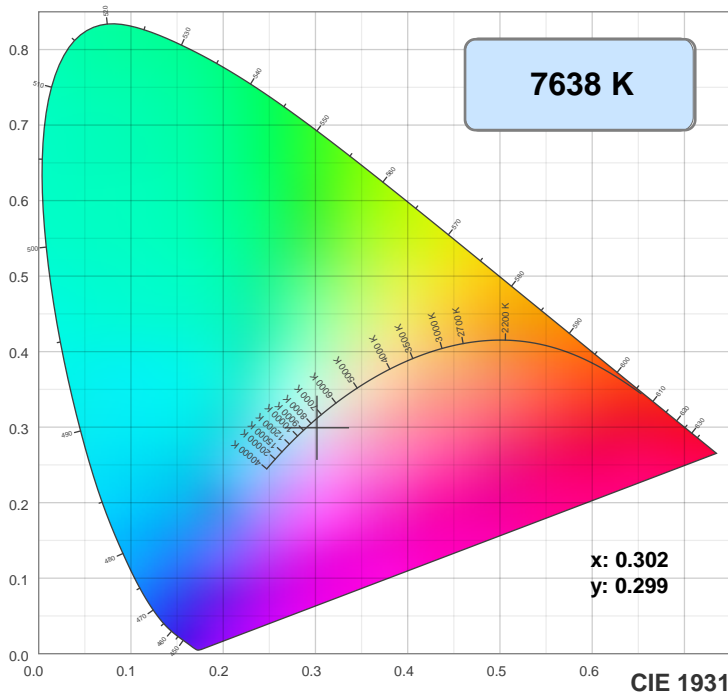
Dominant Wavelength: 360nm



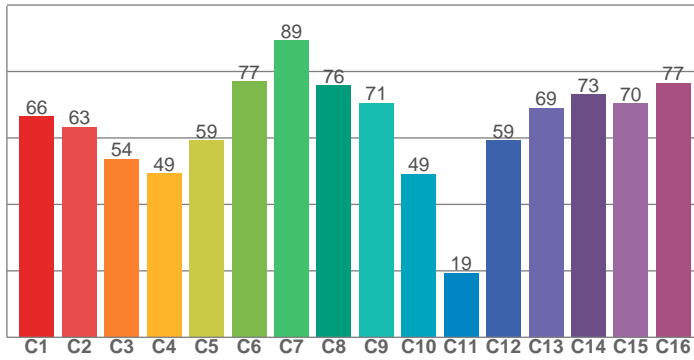
Power



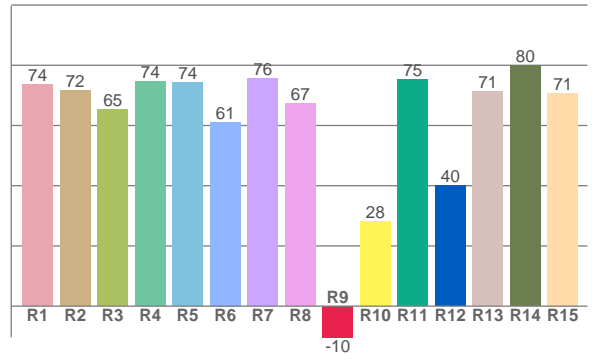
## Color Details



TM30: 62.6



CRI: 70.4 (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
73.7	71.6	65.3	74.5	74.2	61.2	75.6	67.2	-10.3	28.2	75.3	40.1	71.2	79.9	70.8

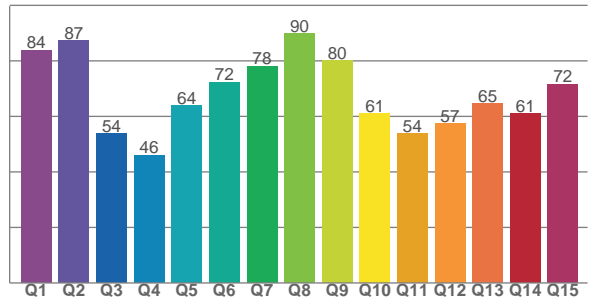
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
66.5	63.3	53.7	49.3	59.3	77.0	89.4	75.9	70.6	49.1	19.4	59.3	69.0	73.0	70.5	76.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.9	87.3	53.9	46.0	63.8	72.3	78.2	89.8	80.1	61.1	53.8	57.4	64.5	60.9	71.6

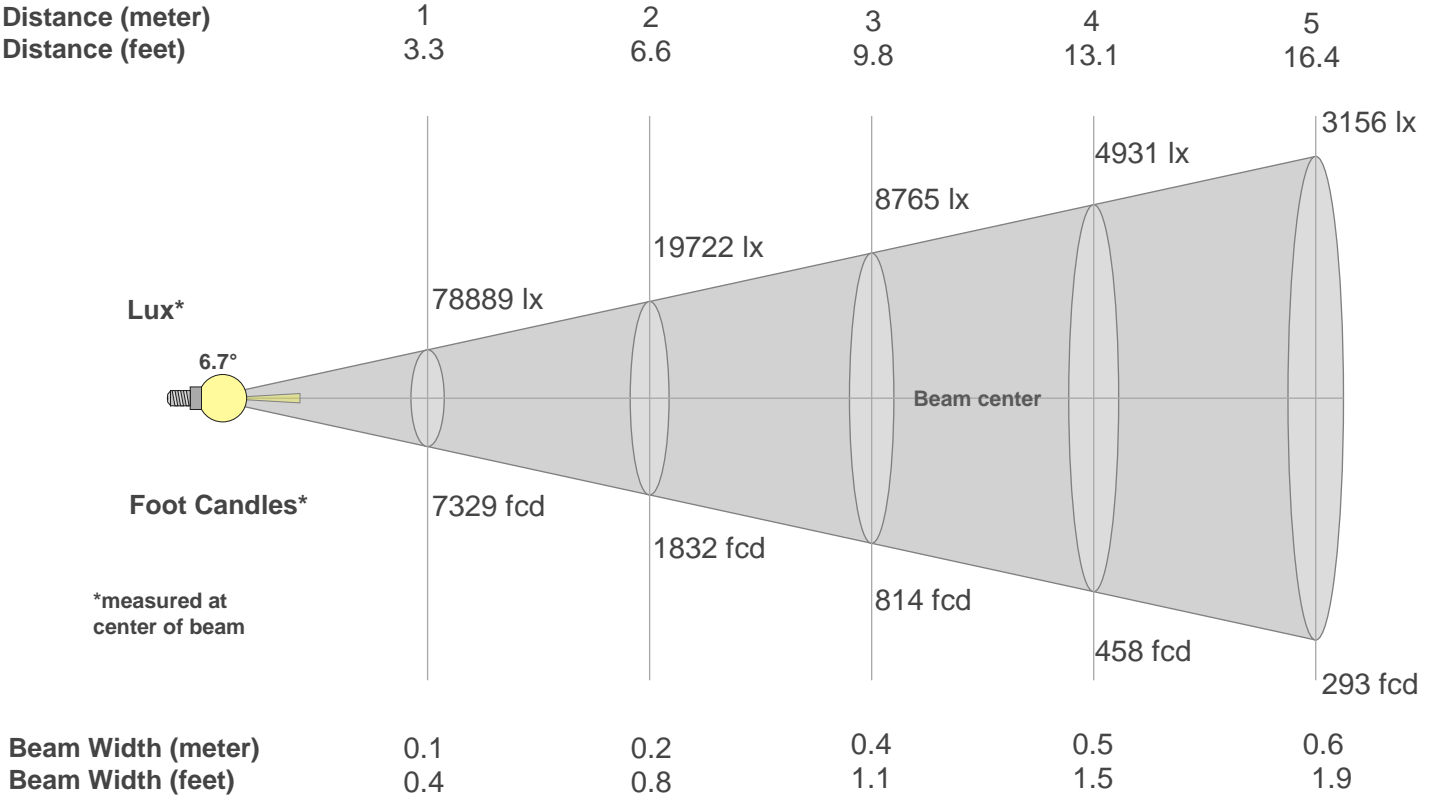
CQS: 65.7



## 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	$\Delta uv$
7638 K	70.4	-10.3	62.6	97.0	65.7	0.302	0.299	0.202	0.300	-0.0099

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	78889	19722	8765	4931	3156	2191	1610	1233	974	789	652	548	467	402	351	308	273	243	219	197
fcd	7329	1832.3	814.3	458.1	293.2	203.6	149.6	114.5	90.5	73.3	60.6	50.9	43.4	37.4	32.6	28.6	25.4	22.6	20.3	18.3

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°
78.9K	75.1K	63.1K	45.4K	28.8K	15.4K	6.2K	1.7K	0.3K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K
100%	95%	80%	58%	37%	20%	8%	2%	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°
78.9K	75.1K	63.1K	45.4K	28.8K	15.4K	6.2K	1.7K	0.3K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K
100%	95%	80%	58%	37%	20%	8%	2%	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°
78.9K	74.9K	62.9K	45.9K	29.0K	15.5K	6.6K	2.1K	0.4K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K
100%	95%	80%	58%	37%	20%	8%	3%	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°
78.9K	74.9K	62.9K	45.9K	29.0K	15.5K	6.6K	2.1K	0.4K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K	0.0K
100%	95%	80%	58%	37%	20%	8%	3%	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
6.7°	11.6°	14°	100.0%	100.0%