Hydro Beam X2

Light Efficiency:

1 Lumen/Watt

Light Quality:

CRI: 80.1

Color Temperature:

7033 K

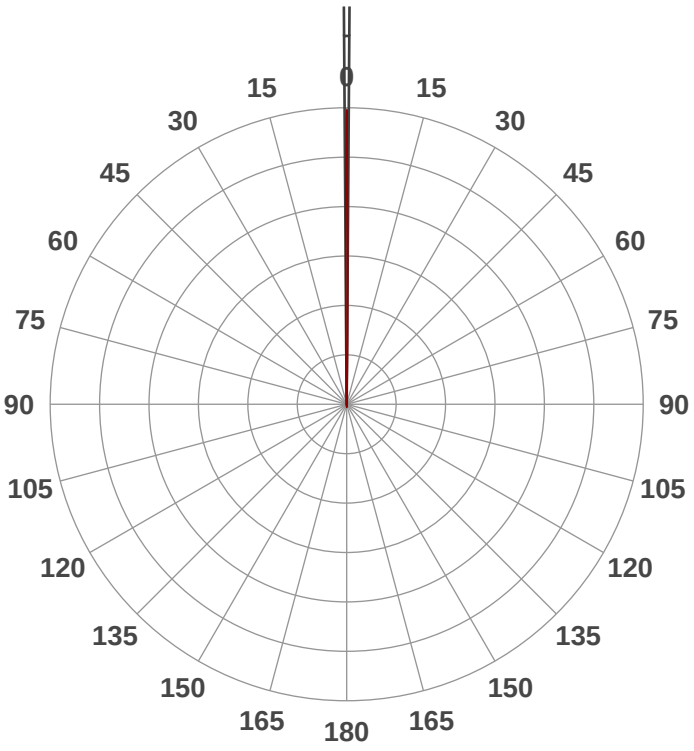
Output: 605 lm

Peak: 1551180 cd

Power: 512 W

PF: 1.0

Beam Angle .8°



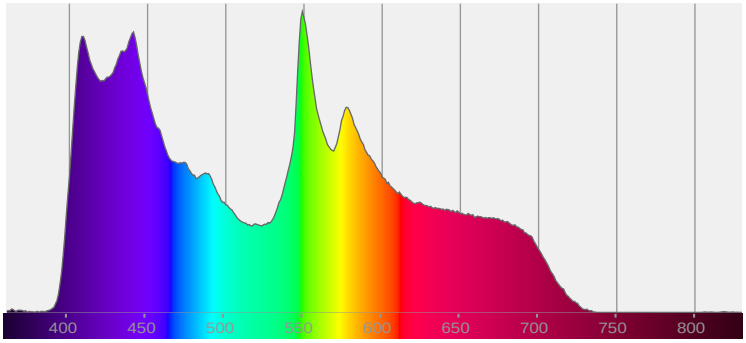
Test:
3200K+5600K

Date:
7/16/2019

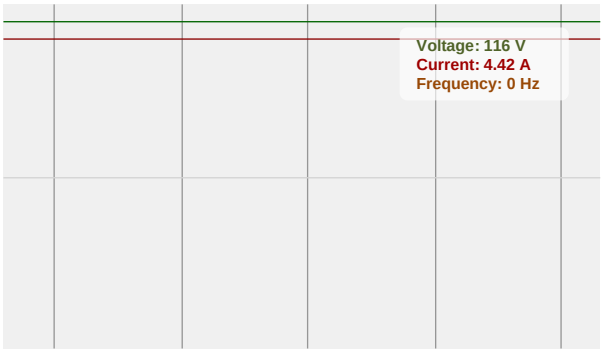
Note:

CIE 1931
x: 0.310
y: 0.299

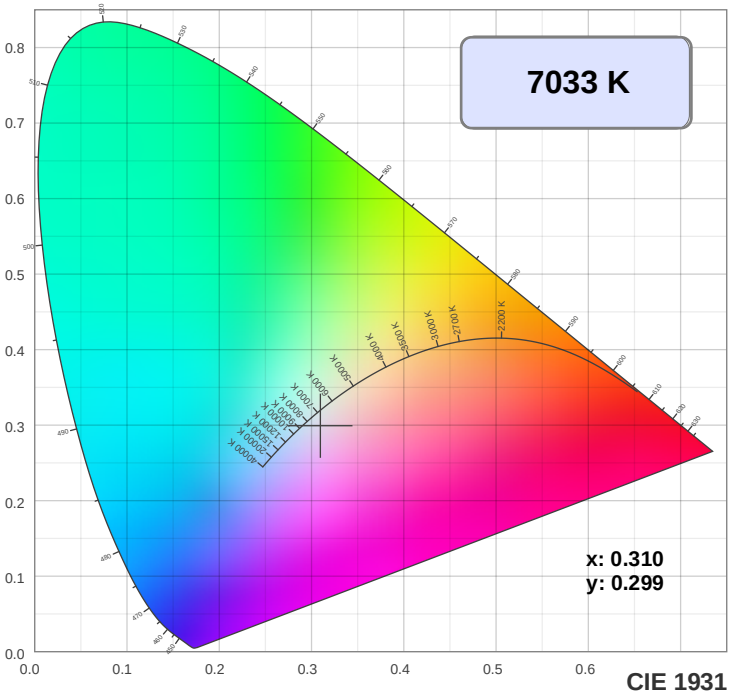
Spectra **Dominant Wavelength:360nm**



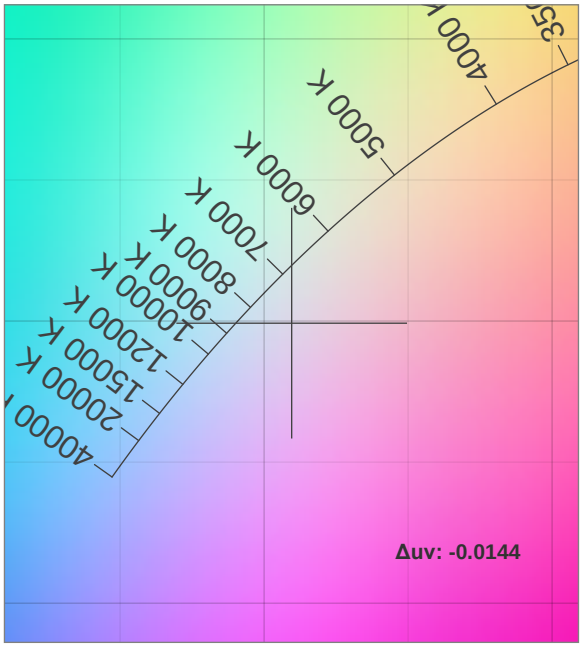
Power



Color Details

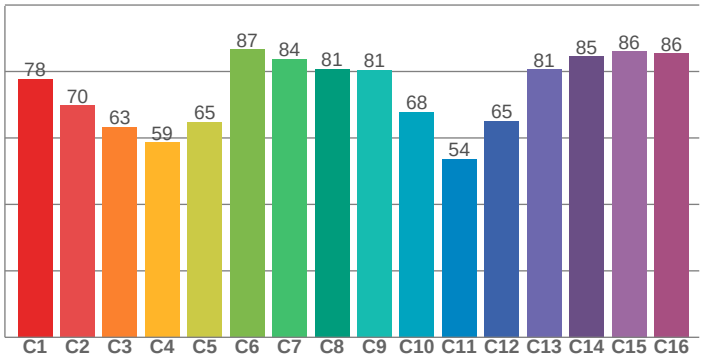


CIE 1931

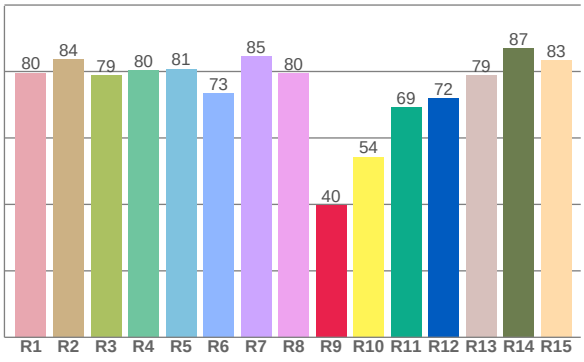


CIE 1931 ZOOM

TM30: 73.8



CRI: 80.1 (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
79.6	83.6	78.8	80.3	80.8	73.4	84.7	79.6	39.7	54.3	69.3	72.0	78.7	86.9	83.3

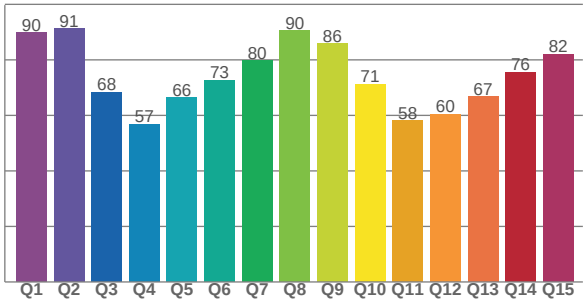
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77.7	69.7	63.2	58.6	64.8	86.6	83.8	80.7	80.5	67.9	53.7	65.1	80.7	84.6	86.1	85.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89.8	91.3	68.4	56.9	66.3	72.6	79.7	90.5	85.9	71.2	58.1	60.5	66.8	75.6	82.1

CQS: 72.0

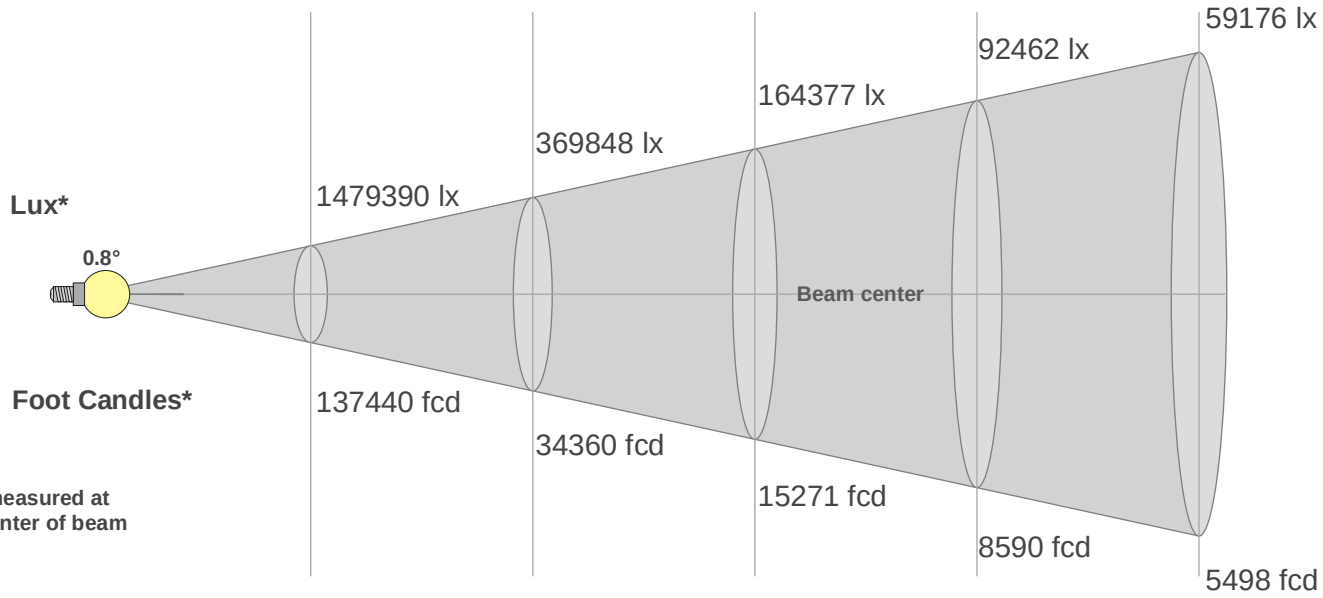


Color Parameters

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 Diviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
7033 K	80.1	39.7	73.8	97.0	72.0	0.310	0.299	0.207	0.301	-0.0144

Beam Details

Distance (meter)	1	2	3	4	5
Distance (feet)	3.3	6.6	9.8	13.1	16.4



Beam Width (meter)	0	0	0	0.1	0.1
Beam Width (feet)	0	0.1	0.1	0.2	0.2

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	1479390	369848	164377	92462	59176	41094	30192	23115	18264	14794	12226	10274	8754	7548	6575	5779	5119	4566	4098	3698
fcd	137439.9	34360	15271.1	8590	5497.6	3817.8	2804.9	2147.5	1696.8	1374.4	1135.9	954.4	813.3	701.2	610.8	536.9	475.6	424.2	380.7	343.6

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°
1.5M	0.3M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M
100%	18%	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°
1.5M	0.3M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M
100%	18%	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°
1.5M	0.2M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M
100%	15%	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°
1.5M	0.2M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M	0.0M
100%	15%	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°	2.3°	2.7°	97.3%	96.9%