

# Hydro Profile



Light Efficiency:

28 Lumen/Watt

Light Quality:

CRI: 71.3

Color Temperature:

7393 K

Output: 24550 lm

Peak: 428317 cd

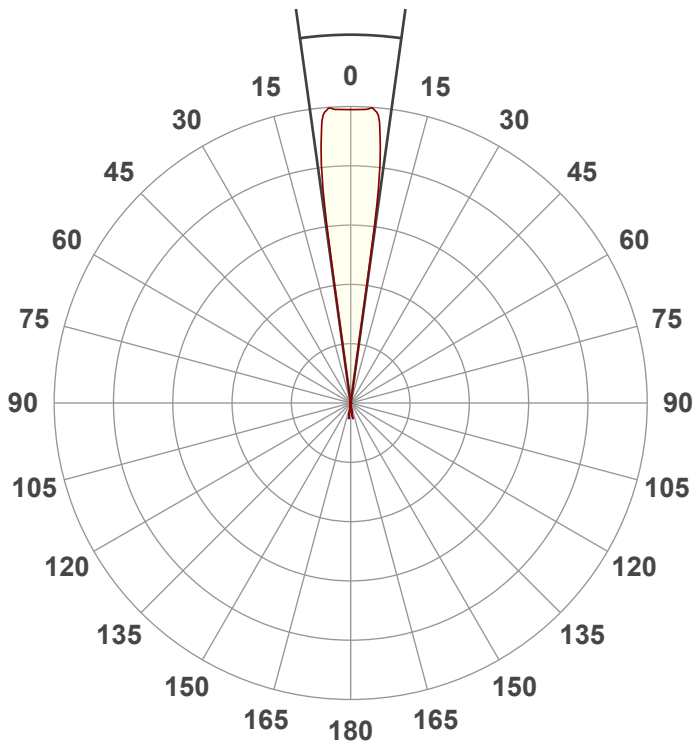
Power: 866 W

PF: 1.0



Beam Angle

15.8°



Test:

Zoom 50%

Date:

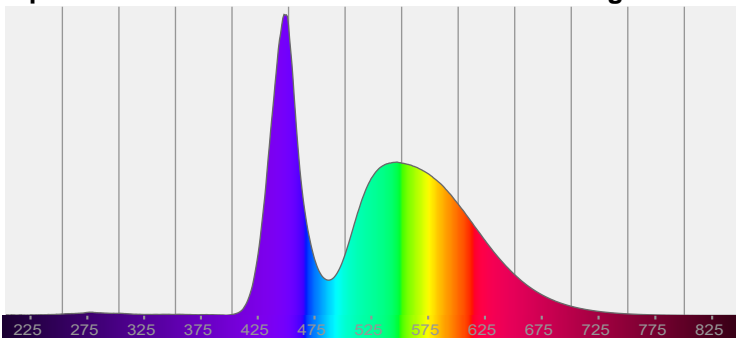
7/18/2022

Note:

CIE 1931  
x: 0.301  
y: 0.315

Spectra

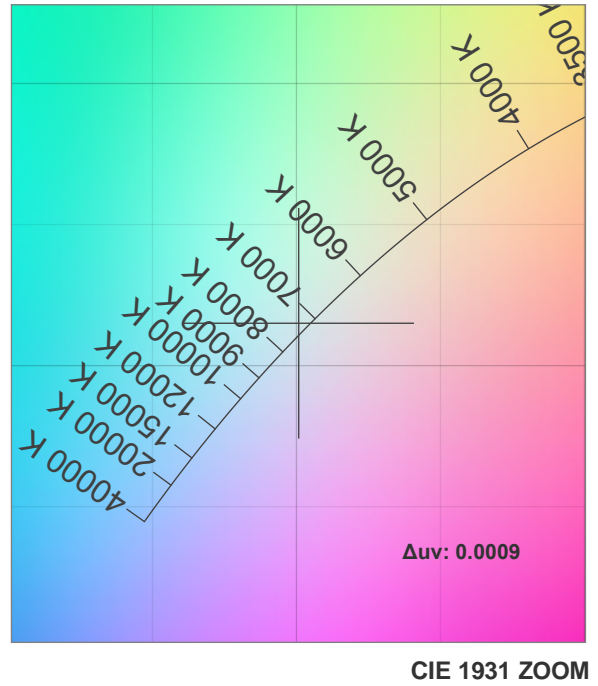
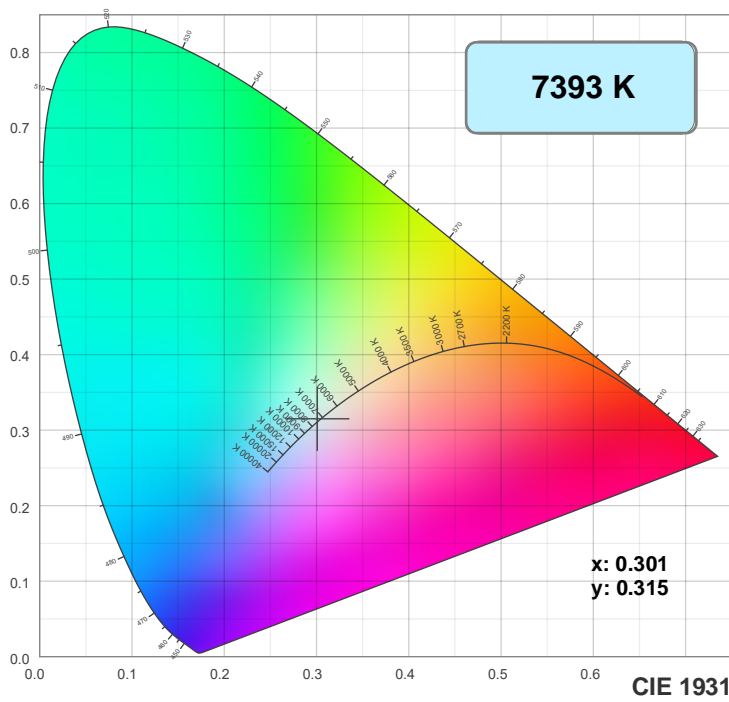
Dominant Wavelength: 475nm



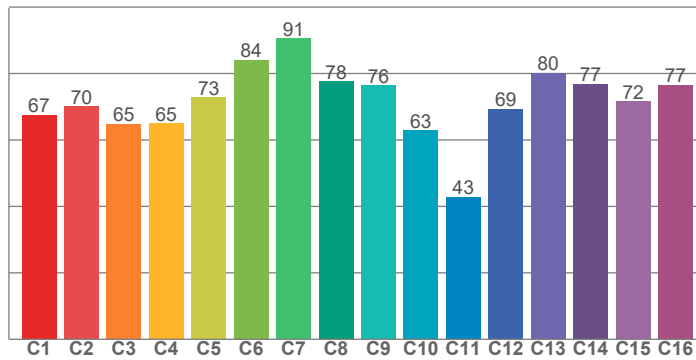
Power

Voltage: 118 V  
Current: 7.32 A  
Frequency: 0 Hz

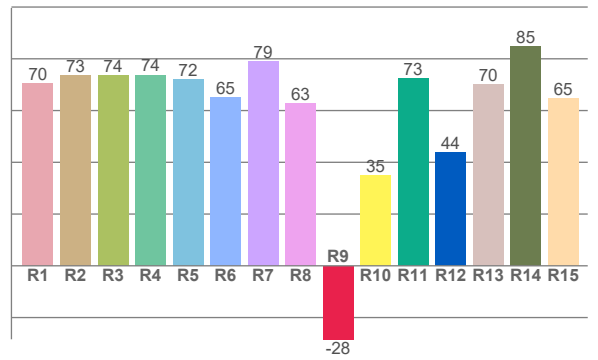
## Color Details



TM30: 71.6



CRI: 71.3 (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
70.4	73.4	73.5	73.8	72.0	65.2	79.2	62.7	-28.4	35.1	72.5	43.9	70.1	85.0	64.7

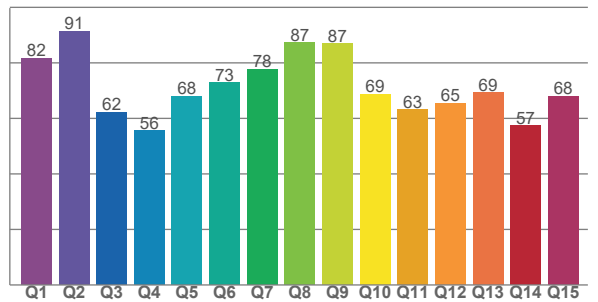
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
67.5	70.0	64.9	65.0	72.8	84.1	90.5	77.6	76.4	62.9	42.8	69.3	80.2	76.8	71.6	76.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.7	91.5	62.3	55.6	67.9	72.9	77.7	87.2	86.8	68.8	63.1	65.4	69.2	57.4	68.0

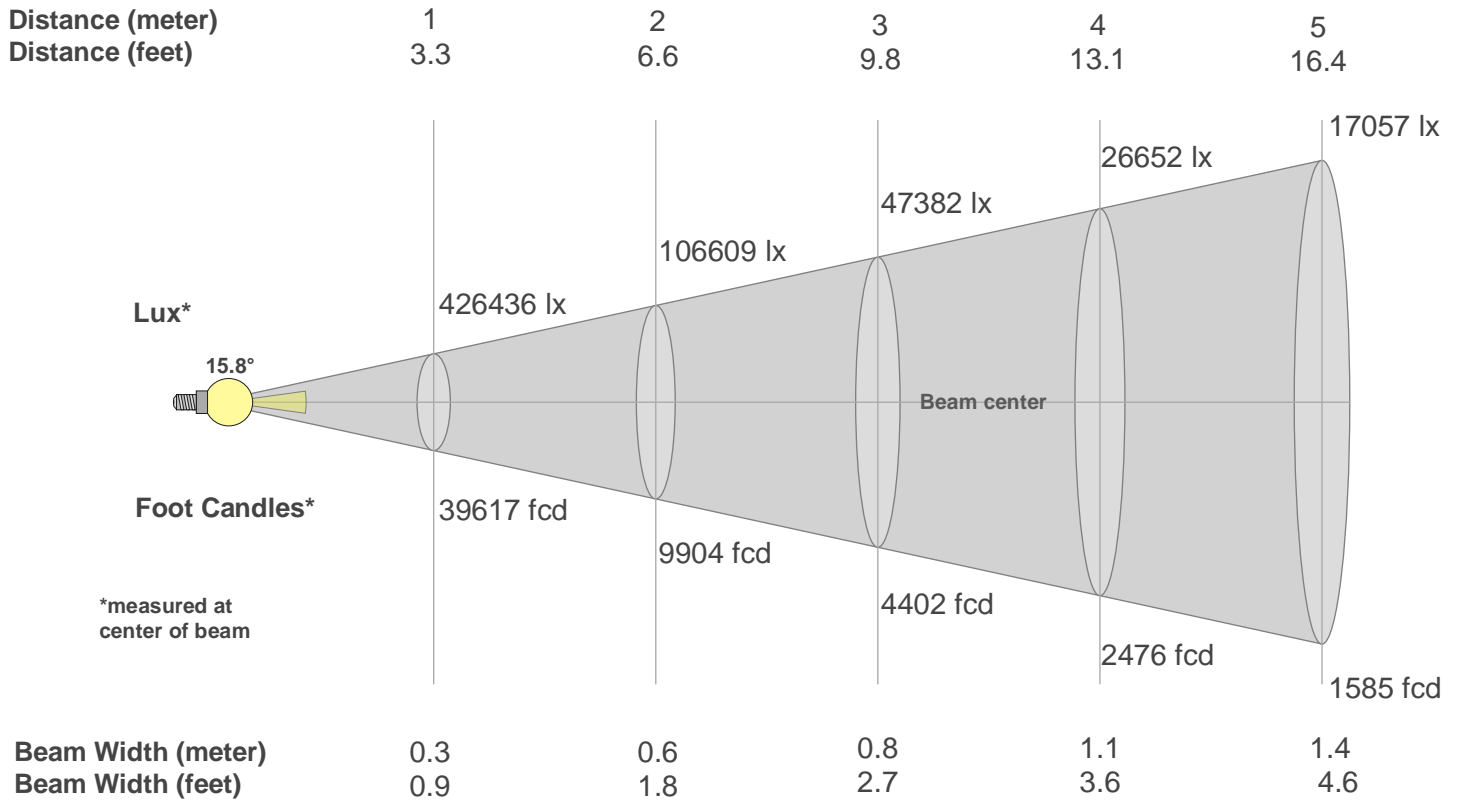
CQS: 69.8



## 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
7393 K	71.3	-28.4	71.6	94.3	69.8	0.301	0.315	0.195	0.306	0.0009

## 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	426436	106609	47382	26652	17057	11845	8703	6663	5265	4264	3524	2961	2523	2176	1895	1666	1476	1316	1181	1066
fcd	39617.2	9904.3	4401.9	2476.1	1584.7	1100.5	808.5	619	489.1	396.2	327.4	275.1	234.4	202.1	176.1	154.8	137.1	122.3	109.7	99

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°
426K	427K	427K	427K	428K	420K	403K	329K	196K	3K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	100%	100%	100%	100%	99%	95%	77%	46%	1%	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°
426K	427K	427K	427K	428K	420K	403K	329K	196K	3K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	100%	100%	100%	100%	99%	95%	77%	46%	1%	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°
426K	427K	427K	427K	428K	420K	403K	329K	196K	3K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	100%	100%	100%	100%	99%	95%	77%	46%	1%	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°
426K	427K	427K	427K	428K	420K	403K	329K	196K	3K	0K	0K	0K	0K	0K	0K	0K	0K	0K	0K
100%	100%	100%	100%	100%	99%	95%	77%	46%	1%	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
15.8°	17.6°	17.9°	100.0%	100.0%