

Light efficiency:



Light quality:



Color temperature:



Output: 7842 lm

Peak: 8959 cd

Power: 455 W

PF: 1.0



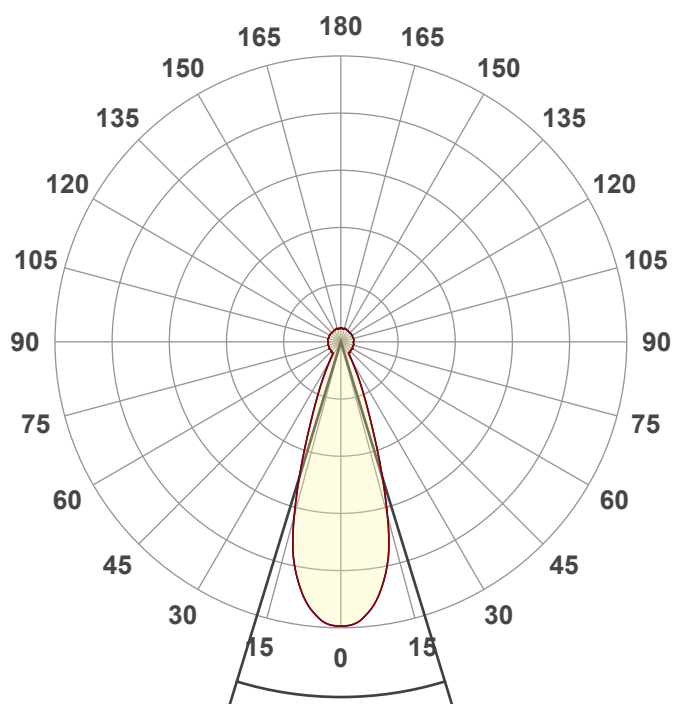
Product name:

Hydro Flex L19 (Zoom Out Red)

Item number:

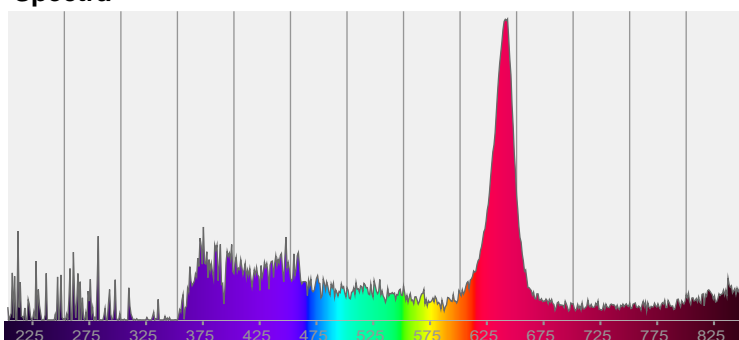
Date and time:

9/6/2025 9:23:04 AM

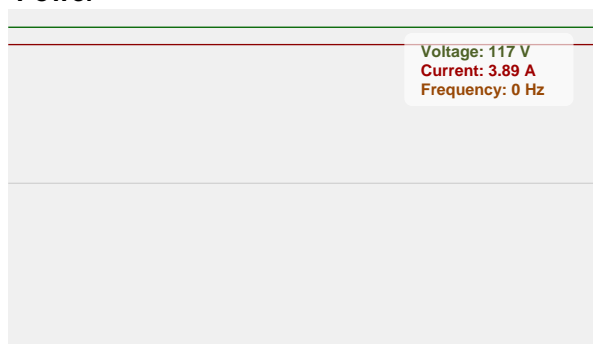


CIE 1931
x: 0.407
y: 0.266

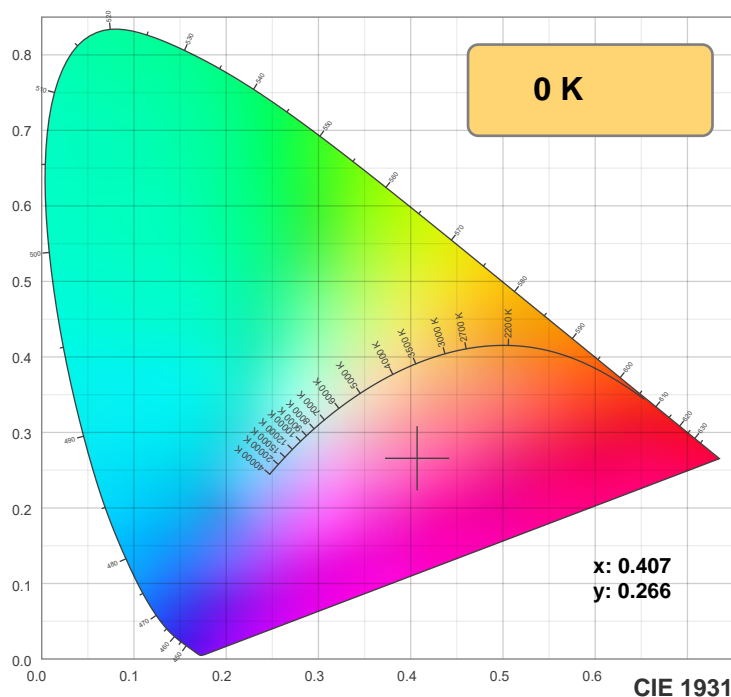
Spectra



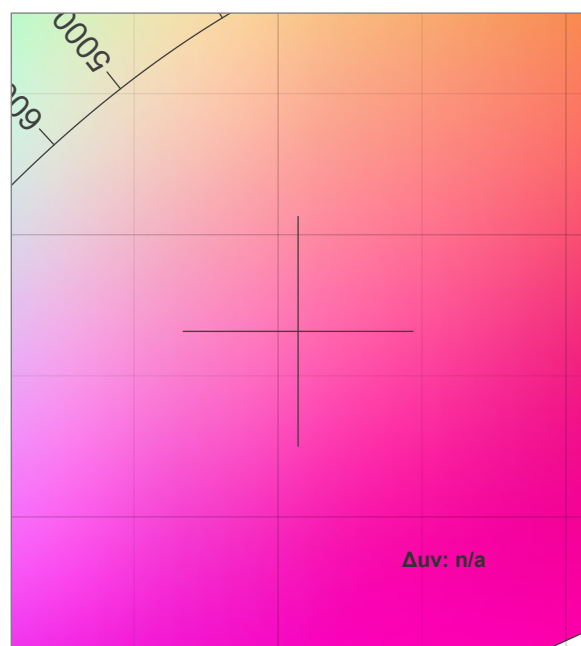
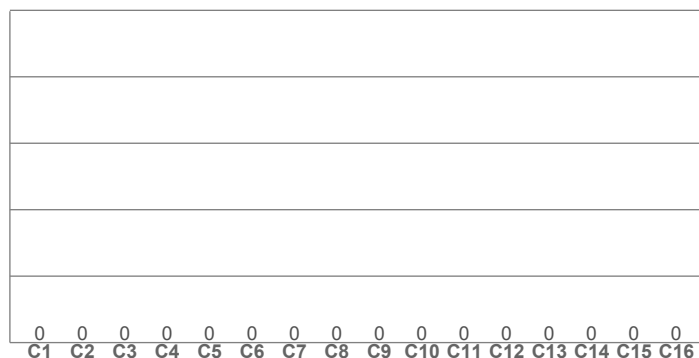
Power



Color details

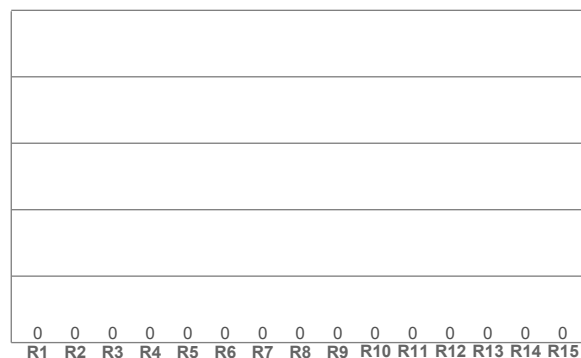


TM-30: 0.0

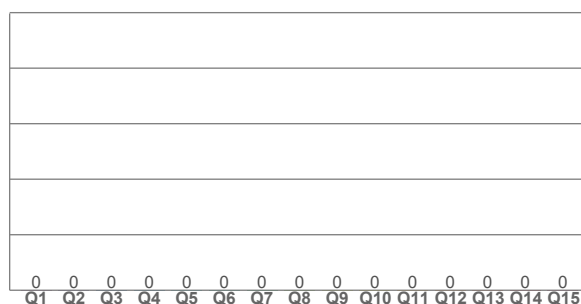


CIE 1931 ZOOM

CRI: 0.0 (R1-R8)



CQS: 0.0



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
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.407	0.266	0.303	0.297	n/a

TM-30 details

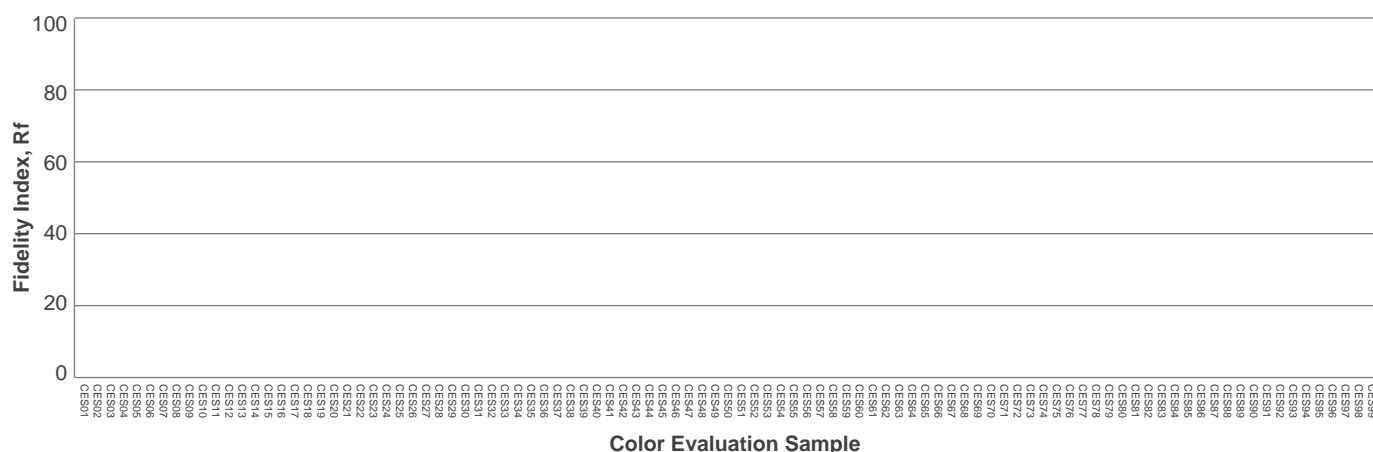
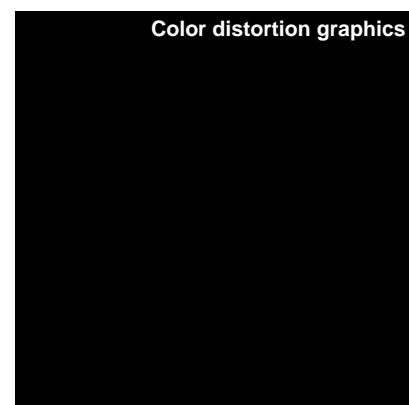
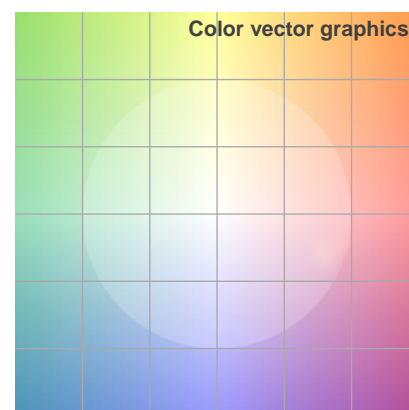
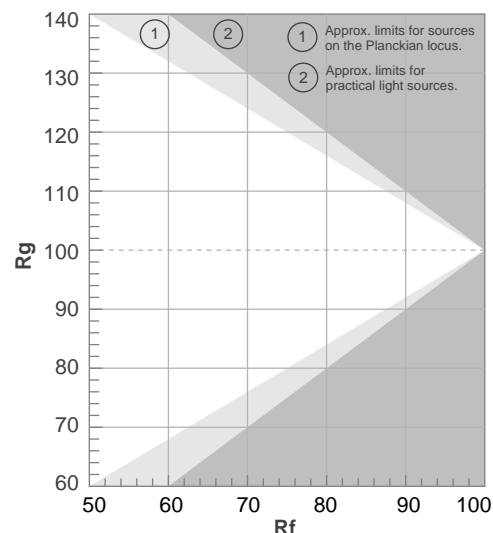
Rf 0.0

Fidelity index Rf

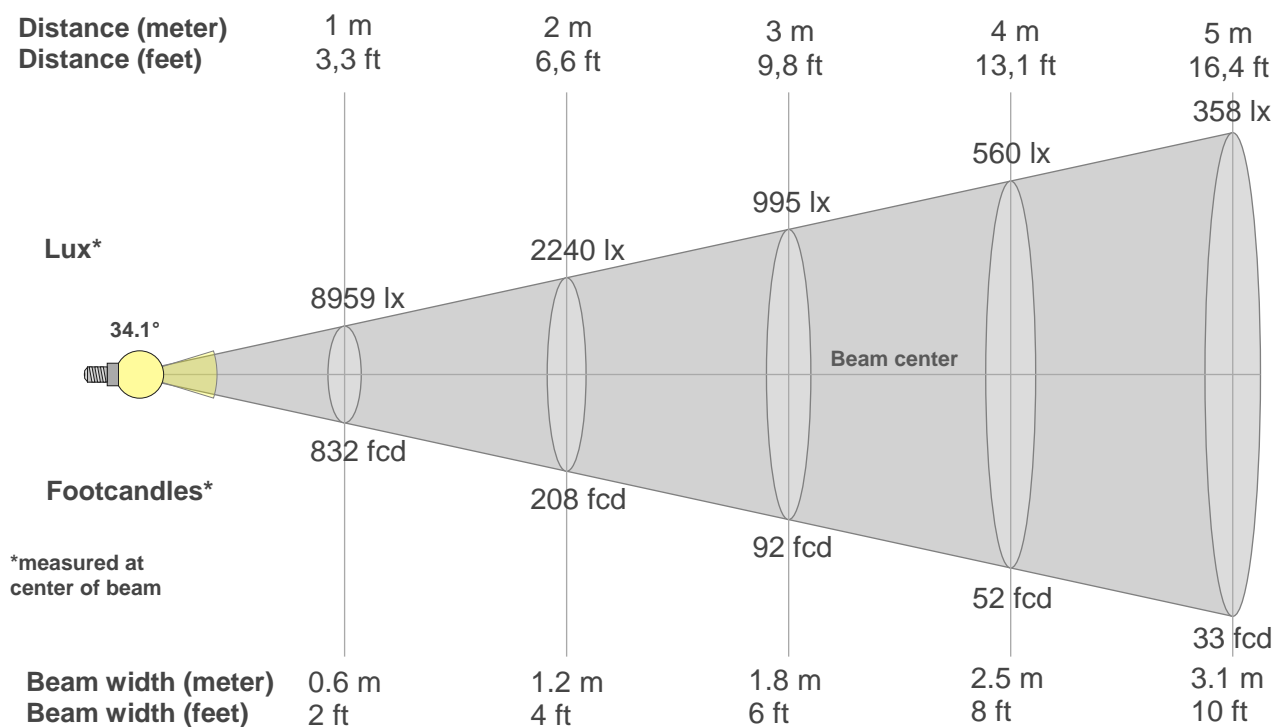
Rg 0.0

Gamut index Rg

Hue Bin	R _i	Shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%



Beam details



Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
8959lx	2240lx	995lx	560lx	358lx	249lx	183lx	140lx	111lx	90lx	74lx	62lx	53lx	46lx	40lx	35lx	31lx	28lx	25lx	22lx
832.4fc	208.1fc	92.5fcd	52fcd	33.3fcd	23.1fcd	17fcd	13fcd	10.3fcd	8.3fcd	6.9fcd	5.8fcd	4.9fcd	4.2fcd	3.7fcd	3.3fcd	2.9fcd	2.6fcd	2.3fcd	2.1fcd

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°
8959	8932	8800	8538	8186	7696	7084	6228	5086	3944	2941	2216	1695	1282	953	726	550	460	432	431
100%	100%	98%	95%	91%	86%	79%	70%	57%	44%	33%	25%	19%	14%	11%	8%	6%	5%	5%	5%

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°
8959	8932	8800	8538	8186	7696	7084	6228	5086	3944	2941	2216	1695	1282	953	726	550	460	432	431
100%	100%	98%	95%	91%	86%	79%	70%	57%	44%	33%	25%	19%	14%	11%	8%	6%	5%	5%	5%

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°
8959	8932	8800	8538	8186	7696	7084	6228	5086	3944	2941	2216	1695	1282	953	726	550	460	432	431
100%	100%	98%	95%	91%	86%	79%	70%	57%	44%	33%	25%	19%	14%	11%	8%	6%	5%	5%	5%

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°
8959	8932	8800	8538	8186	7696	7084	6228	5086	3944	2941	2216	1695	1282	953	726	550	460	432	431
100%	100%	98%	95%	91%	86%	79%	70%	57%	44%	33%	25%	19%	14%	11%	8%	6%	5%	5%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
34.1°	56.9°	360°	50.9%	44.0%

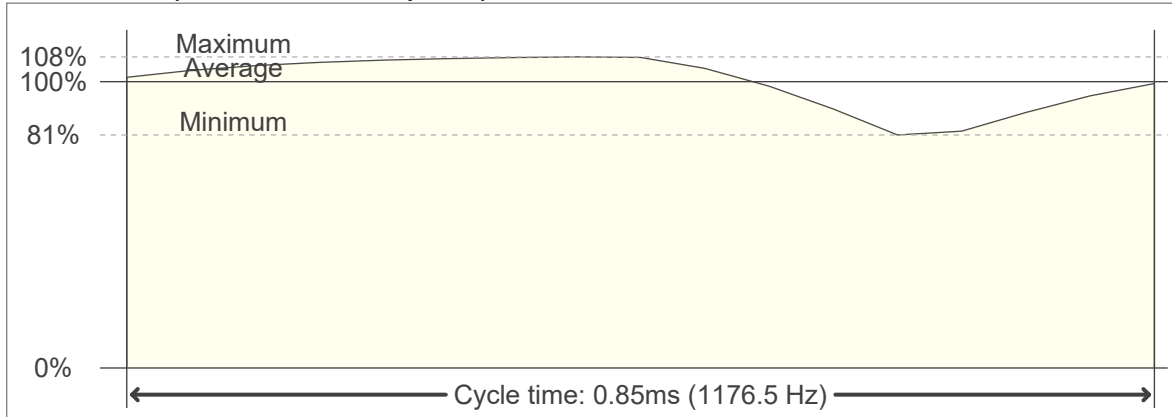
Flicker



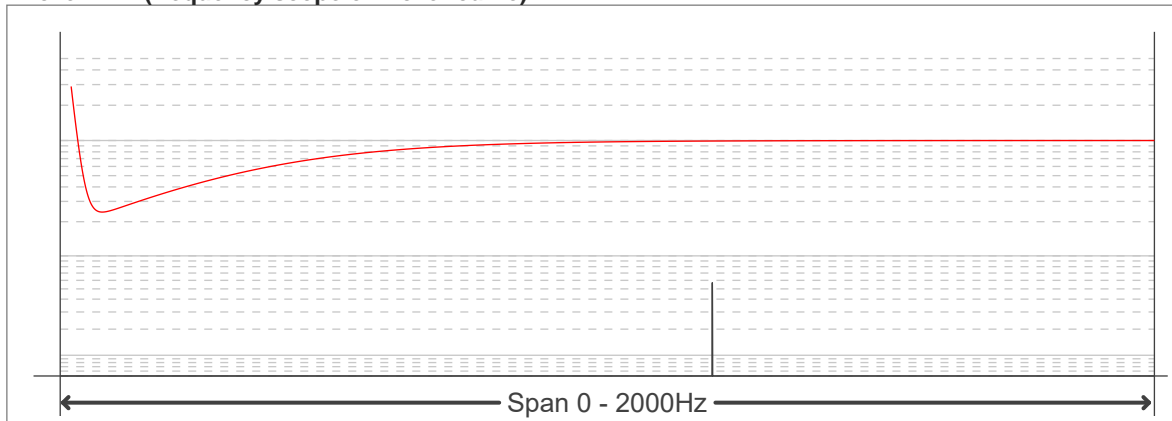
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		1176.47 Hz	
Flicker index:	0.04	JA8/10 40Hz	0.15 %
Flicker percentage:	23.28 %	JA8/10 90Hz	0.35 %
SVM: (Visual flicker)	0.12	JA8/10 200Hz	0.77 %
PstLM	0	JA8/10 400Hz	1.48 %
Mp	0.03	JA8/10 1000Hz	3.04 %

Flicker conditions:

Sample rate:	20000 samples/second
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