

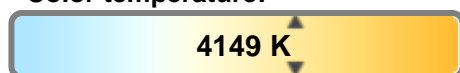
# Light efficiency:



# Light quality:



# Color temperature:

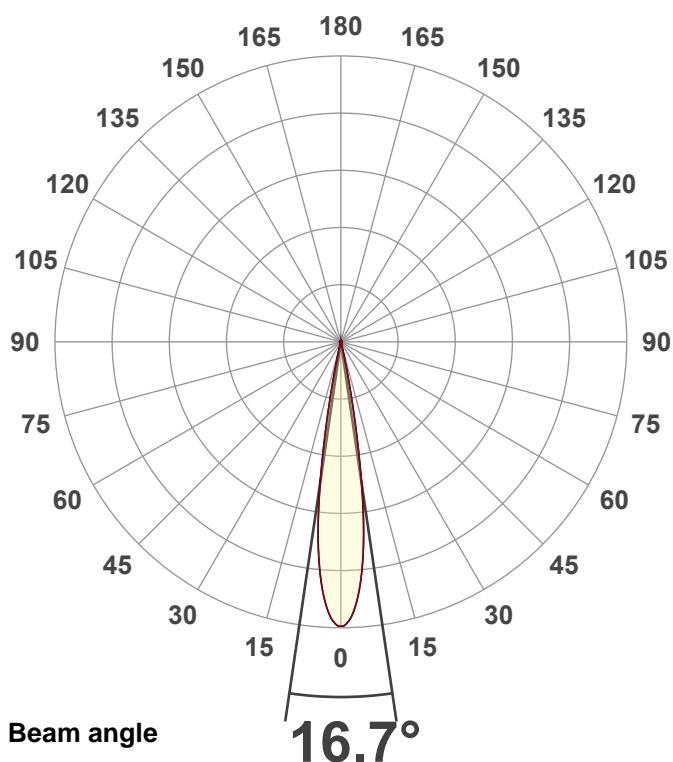


**Output:** 13120 lm  
**Peak:** 102544 cd  
**Power:** 536 W  
**PF:** 1.0



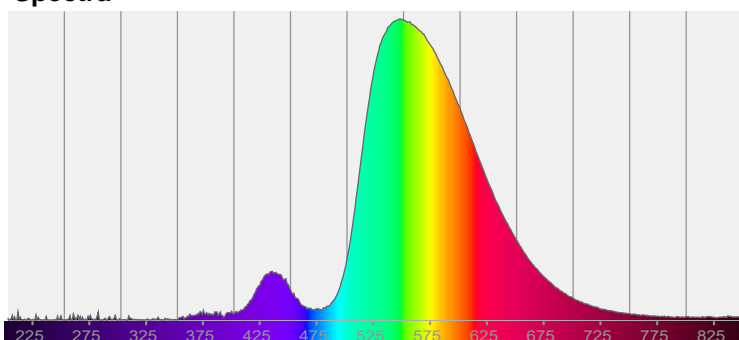
**Product name:**  
**Hydro Flex L19 (Zoom 50% Lime)**  
**Item number:**

**Date and time:**  
**9/6/2025 11:23:23 AM**

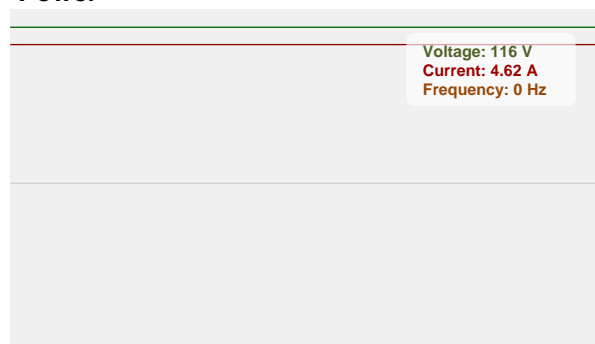


CIE 1931  
x: 0.409  
y: 0.514

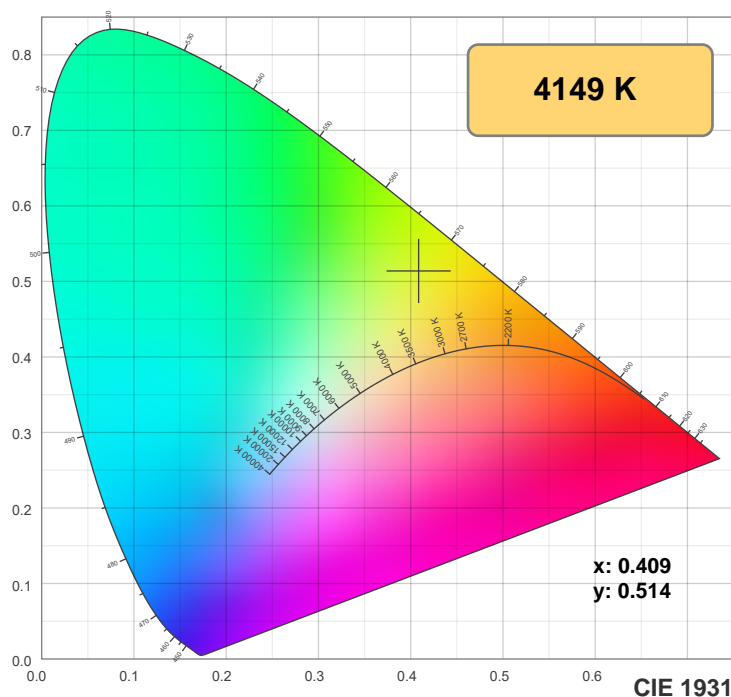
# Spectra



# Power

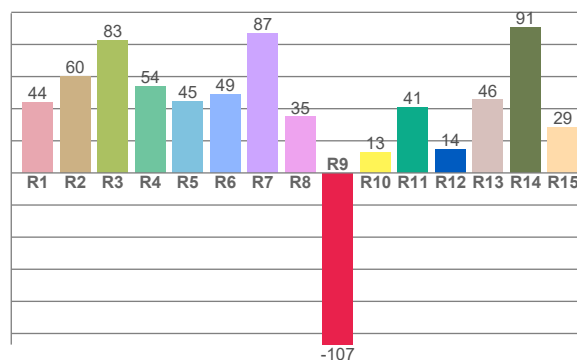
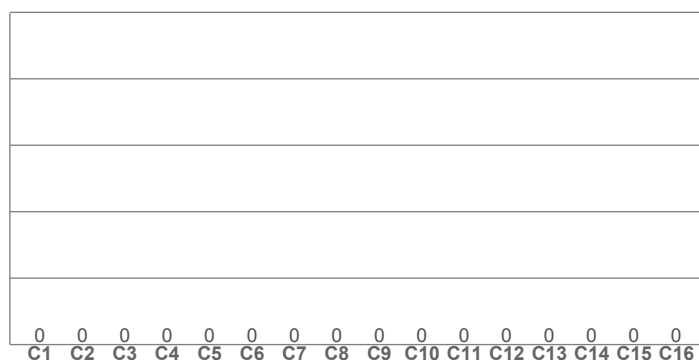


## Color details



**TM-30: 0.0**

**CRI: 57.0 (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
43.8	60.2	82.5	54.1	44.7	48.9	86.8	34.9	-106.9	12.9	40.8	14.4	45.5	90.9	28.5

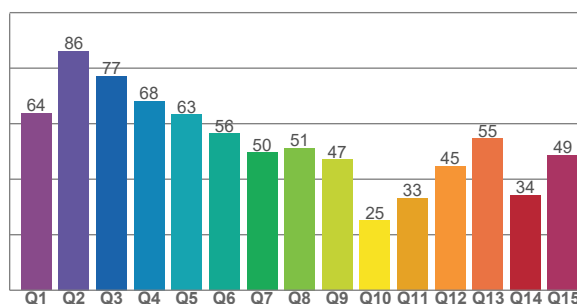
**TM30 C values, 16 binned values out of total of 99 C values**

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
63.8	86.2	77.3	68.2	63.3	56.4	49.6	51.2	47.0	25.1	33.3	44.8	54.6	34.4	48.8

**CQS: 50.8**



### 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	$\Delta uv$
4149 K	57.0	-106.9	0.0	n/a	50.8	0.409	0.514	0.196	0.369	0.0454

# TM-30 details

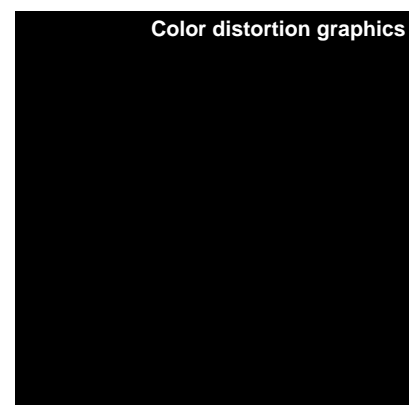
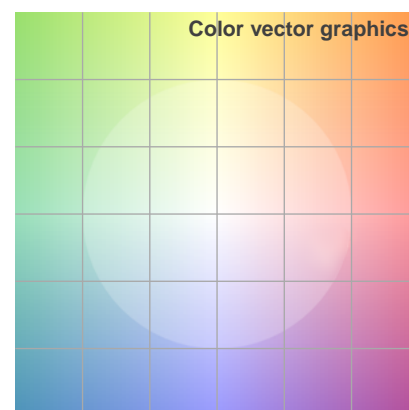
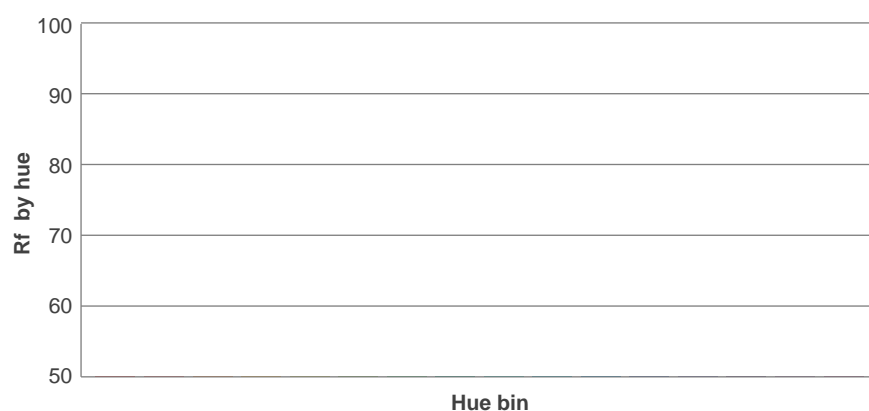
**Rf 0.0**

Fidelity index Rf

**Rg n/a**

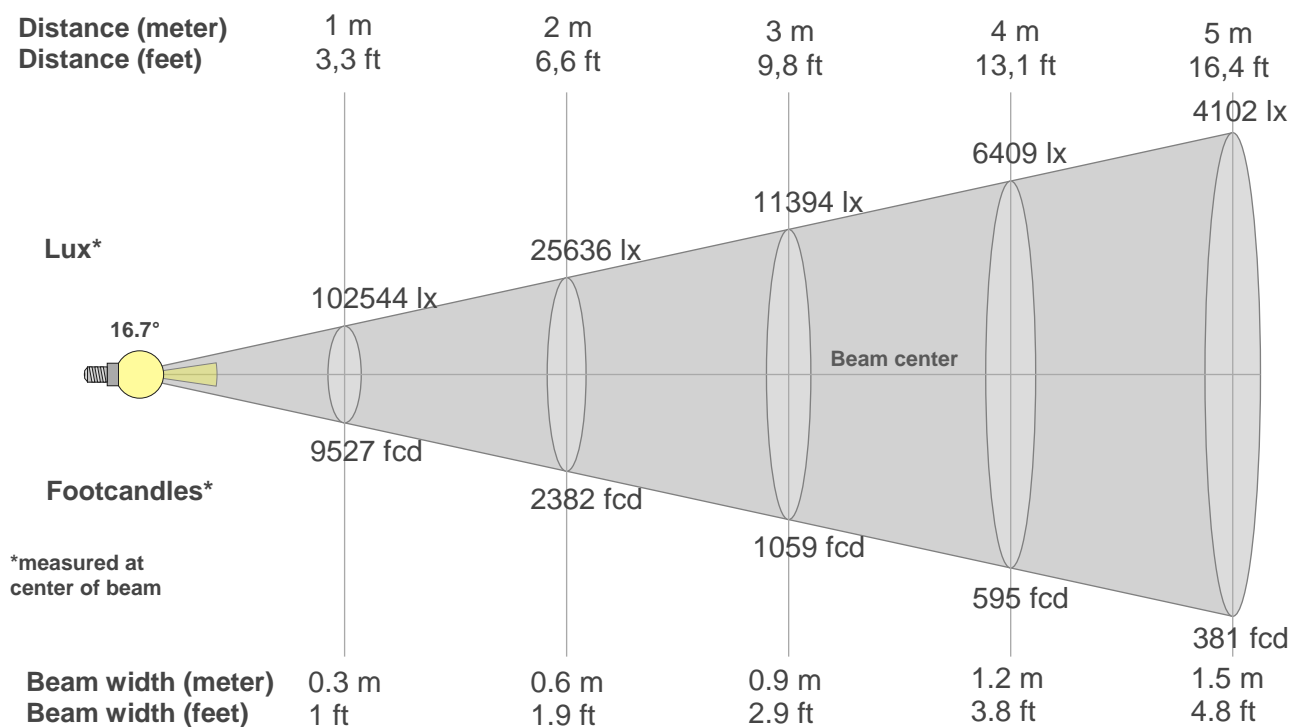
Gamut index Rg

Hue Bin	R <sub>i</sub>	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%



Color Evaluation Sample

## 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
102544lx	25636lx	11394lx	6409lx	4102lx	2848lx	2093lx	1602lx	1266lx	1025lx	847lx	712lx	607lx	523lx	456lx	401lx	355lx	316lx	284lx	256lx
9526.6fcd	2381.7fcd	1058.5fcd	595.4fcd	381.1fcd	264.6fcd	194.4fcd	148.9fcd	117.6fcd	95.3fcd	78.7fcd	66.2fcd	56.4fcd	48.6fcd	42.3fcd	37.2fcd	33fcd	29.4fcd	26.4fcd	23.8fcd

### 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°
103k	102k	100k	96k	91k	85k	77k	67k	56k	43k	30k	19k	10k	5k	2k	1k	1k	1k	1k	1k
100%	99%	97%	94%	89%	83%	75%	66%	54%	42%	29%	18%	10%	5%	2%	1%	1%	1%	1%	1%

### 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°
103k	102k	100k	96k	91k	85k	77k	67k	56k	43k	30k	19k	10k	5k	2k	1k	1k	1k	1k	1k
100%	99%	97%	94%	89%	83%	75%	66%	54%	42%	29%	18%	10%	5%	2%	1%	1%	1%	1%	1%

### 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°
103k	102k	100k	96k	91k	85k	77k	67k	56k	43k	30k	19k	10k	5k	2k	1k	1k	1k	1k	1k
100%	99%	97%	94%	89%	83%	75%	66%	54%	42%	29%	18%	10%	5%	2%	1%	1%	1%	1%	1%

### Intensities in 270° c-plane

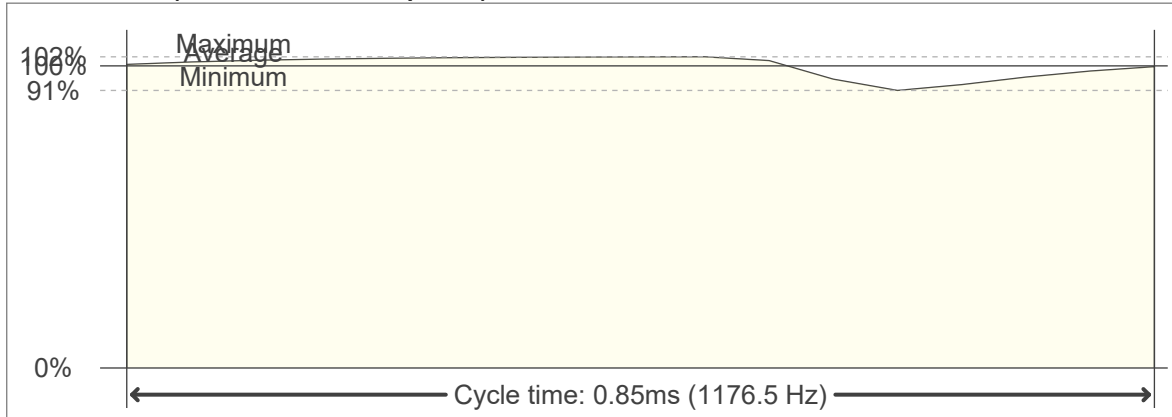
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
103k	102k	100k	96k	91k	85k	77k	67k	56k	43k	30k	19k	10k	5k	2k	1k	1k	1k	1k	1k
100%	99%	97%	94%	89%	83%	75%	66%	54%	42%	29%	18%	10%	5%	2%	1%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
16.7°	23.9°	27.5°	68.0%	62.9%

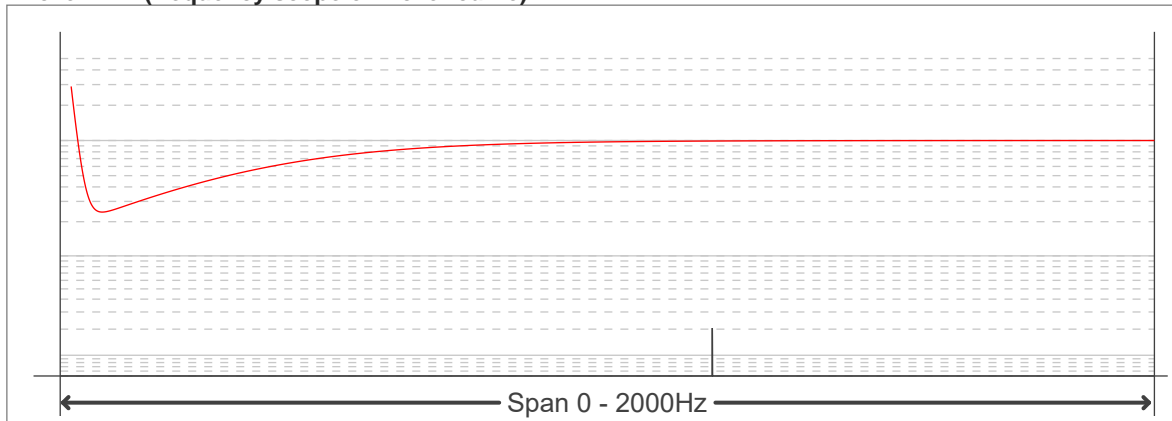
**Flicker curve (complete sampled flicker signal)**



**Flicker frame (frame of one flicker period)**



**Flicker FFT (frequency scope of flicker curve)**



**Flicker results:**

Flicker frequency:		1176.47 Hz	
Flicker index:	0.01	JA8/10 40Hz	0.06 %
Flicker percentage:	5.81 %	JA8/10 90Hz	0.06 %
SVM: (Visual flicker)	0.04	JA8/10 200Hz	0.06 %
PstLM	0	JA8/10 400Hz	0.08 %
Mp	0.03	JA8/10 1000Hz	0.38 %

**Flicker conditions:**

Sample rate:	20000 samples/second
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