

Light efficiency:

47 Lumen/Watt

Light quality:

CRI: -24.1

Color temperature:

1531 K

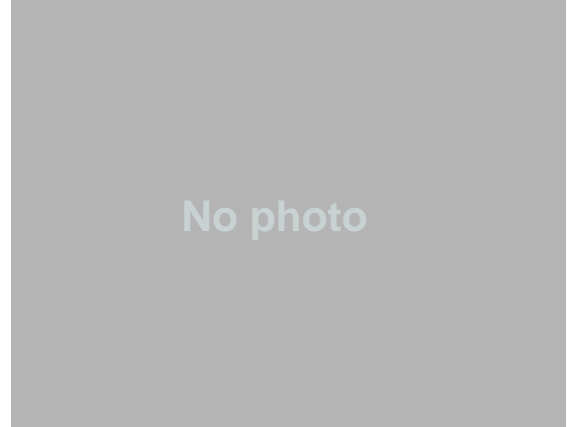
Output: 817 lm

Peak: 601 cd

Power: 17.5 W

PF: 0.99

8 PLANES



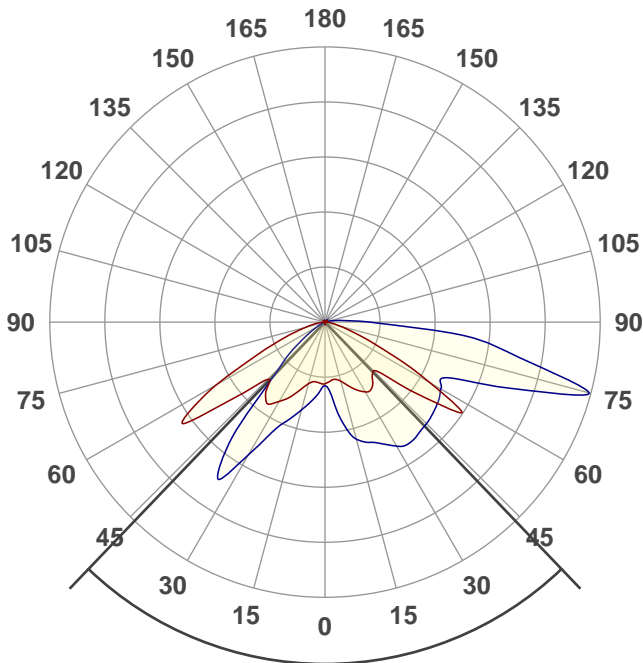
Tracking number: VT231130-000801

Part Number:

WP-15K22-BK-A

Date and time:

11/30/2023 9:45:16 AM



Beam angle

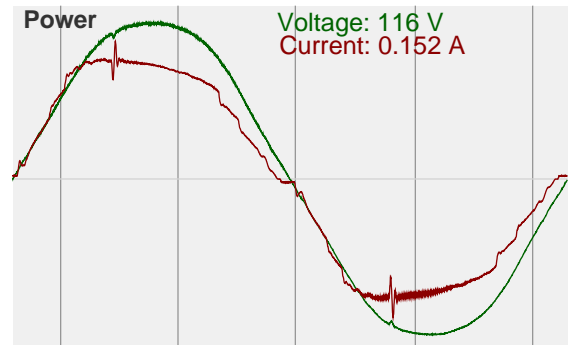
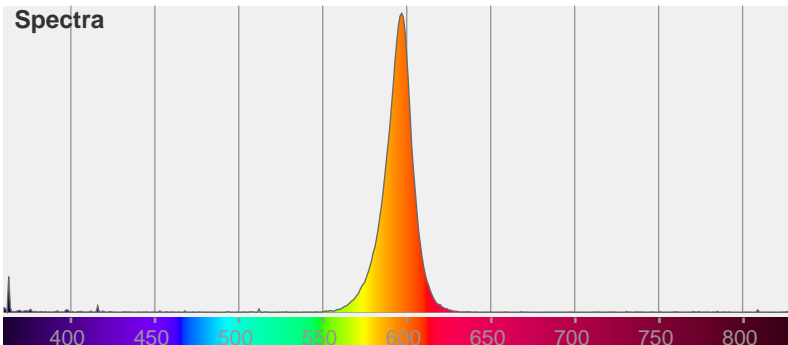
87.5°

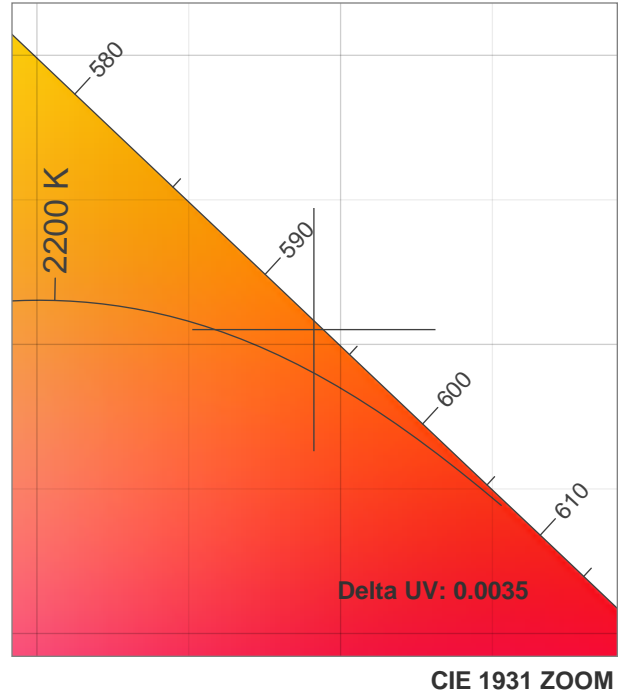
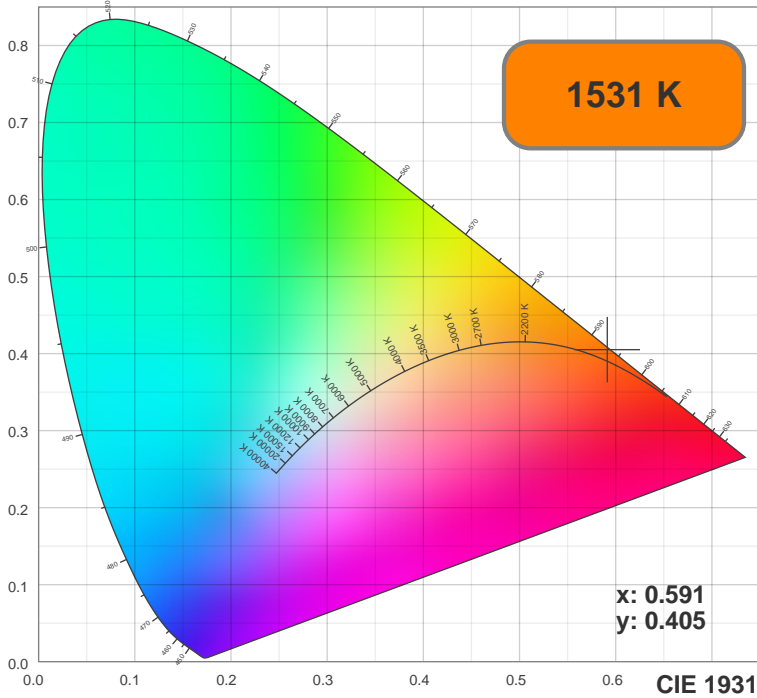
Color



CIE1931
x: 0.591
y: 0.405

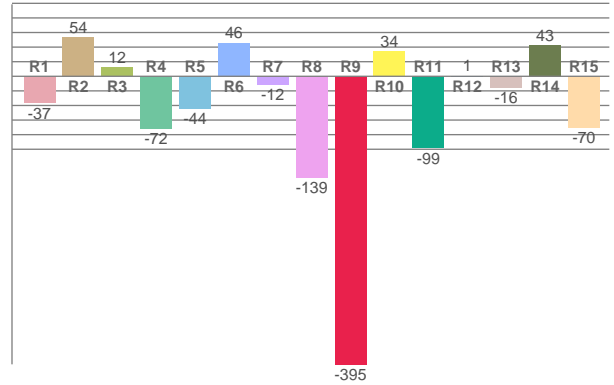
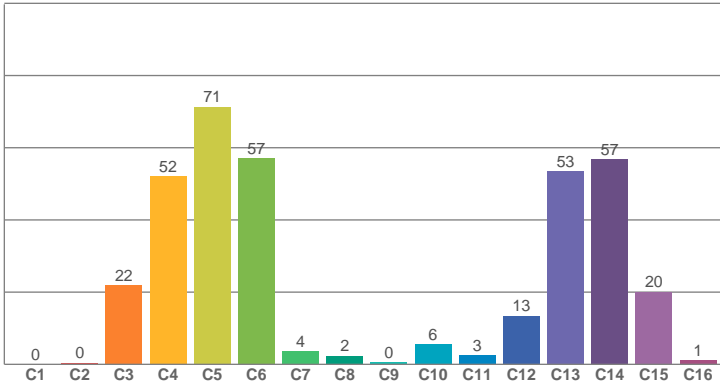
Spectra





TM30: 7.9

CRI: -24.1 (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
-36.71	53.62	12.27	-72.31	-44.16	45.57	-11.65	-139.43	-394.82	33.76	-98.54	0.58	-16.09	42.76	-70.17

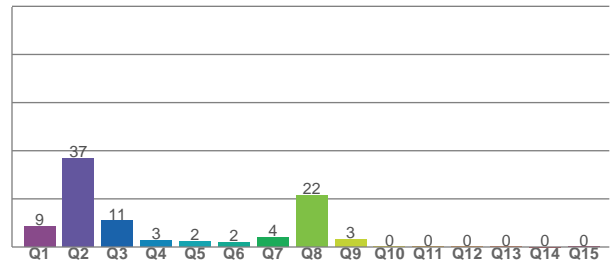
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.03	0.38	21.80	52.05	71.35	57.11	3.67	2.39	0.49	5.57	2.51	13.43	53.40	56.82	20.05	1.17

CQS Q values

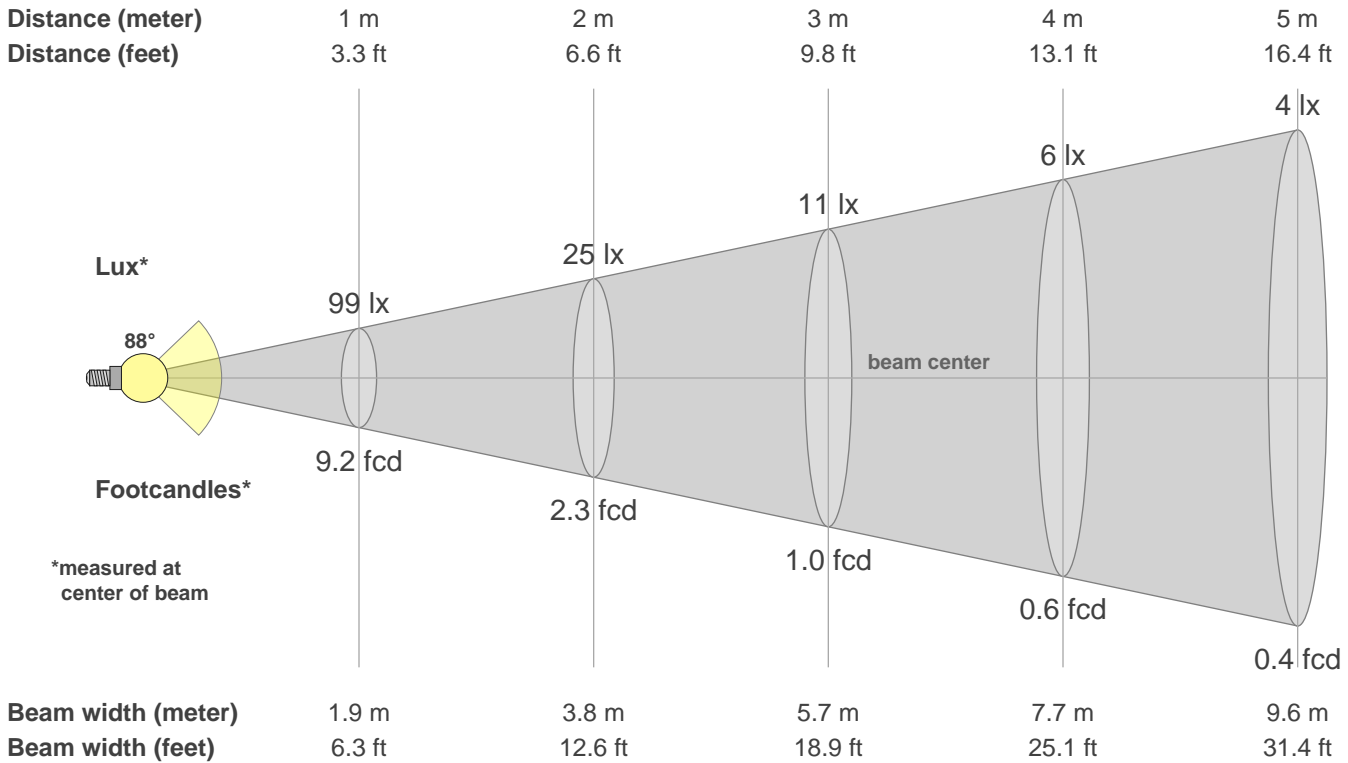
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
8.51	36.76	10.90	2.70	2.24	1.88	3.88	21.53	3.18	0.04	0.00	0.00	0.00	0.00	0.09

CQS: 0.3



Color parameters

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Duv
1531 K	-24.1	-394.8	7.9	12.4	0.3	0.6	0.4	0.4	0.4	0.0035



Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
99	94	92	97	107	118	126	127	117	113	155	232	193	106	53	26	14	6	1	1
100%	95%	94%	99%	108%	120%	128%	129%	119%	115%	158%	236%	196%	107%	54%	26%	14%	7%	1%	1%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
99	119	160	190	202	212	226	232	230	227	223	218	212	211	303	429	306	204	72	30
100%	121%	163%	192%	205%	215%	229%	235%	233%	230%	226%	221%	215%	214%	307%	435%	310%	207%	73%	31%

Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
99	97	96	101	114	131	145	157	146	129	186	269	199	111	62	32	17	8	2	0
100%	98%	97%	103%	116%	132%	147%	160%	148%	131%	189%	273%	201%	112%	63%	33%	17%	8%	2%	0%

Intensities in 270° c-plane

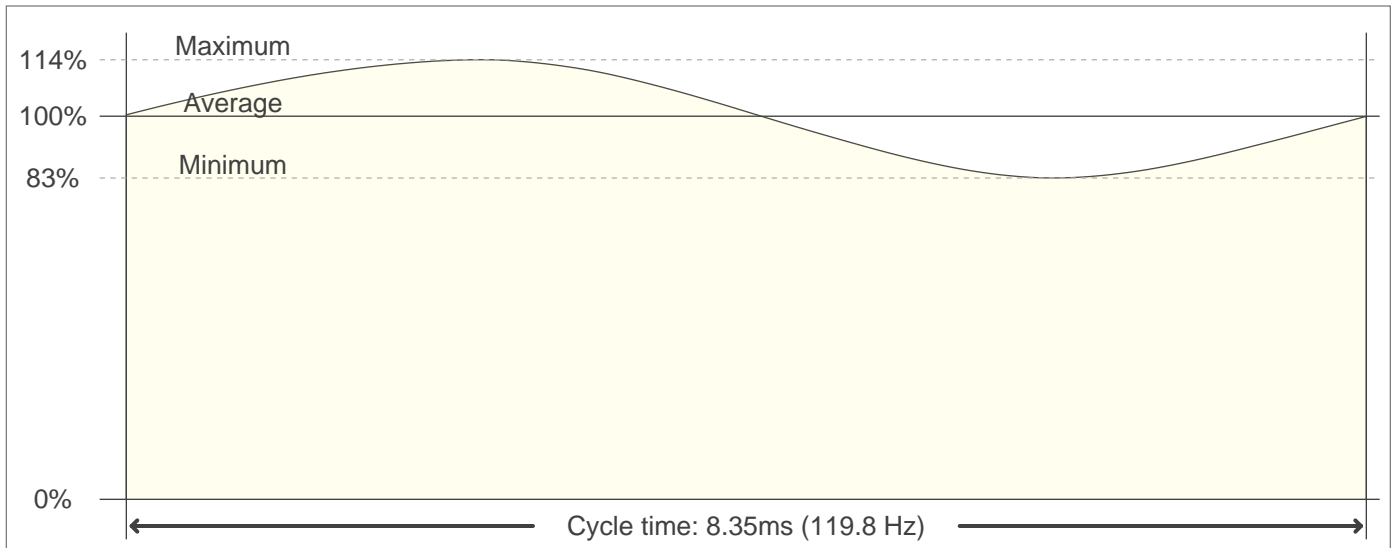
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
99	113	127	144	163	188	242	288	206	104	64	31	14	5	2	1	1	1	1	1
100%	114%	129%	146%	165%	191%	246%	292%	209%	106%	64%	32%	14%	6%	2%	1%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
87.5°	145.8°	162.9°	58.9%	33.4%

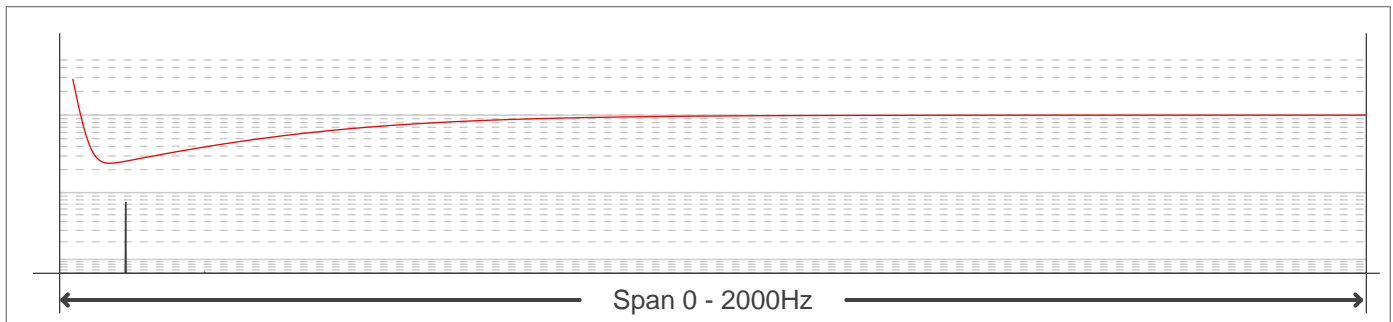
Flicker curve (Complete sampled flicker signal)



Flicker frame (frame of one period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		119.76 Hz	
Flicker index:	0.05	JA8/10 - 40:	0.2 %
Flicker percentage:	15.6 %	JA8/10 - 90:	0.77 %
SVM: (Visual flicker)	0.55	JA8/10 - 200:	15.18 %
PstLM:	0.06	JA8/10 - 400:	15.58 %
Mp:	0.04	JA8/10 - 1000:	15.59 %

Flicker conditions:

Sample Rate	20000 samples/second
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