

Light efficiency:

∞ Lumen/Watt

Light quality:

CRI: 72.8

Color temperature:

6561 K

Output: 14271 lm

Peak: 167957 cd

Power: - W

PF: n/a

????

Tracking number: [n/a](#)

Product name:

VL550S ZOOM 128 FOCUS 138

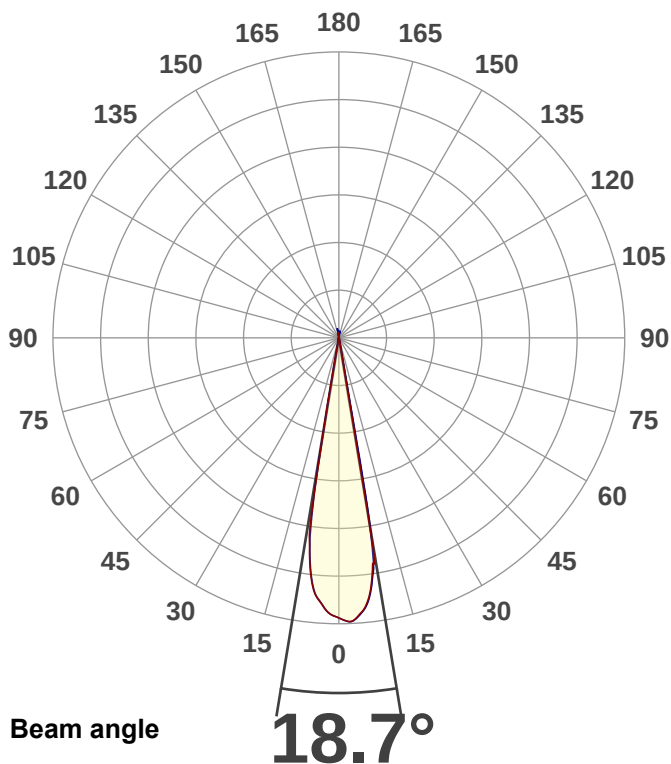
Item number:

Date and time:

2019/10/26 8:54:19

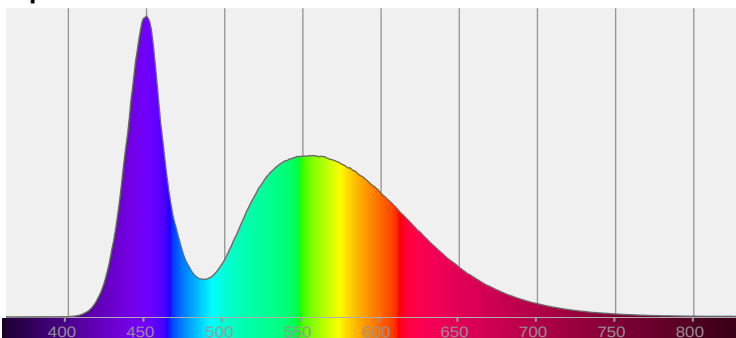
Description:

VL550S ZOOM 128 FOCUS 138

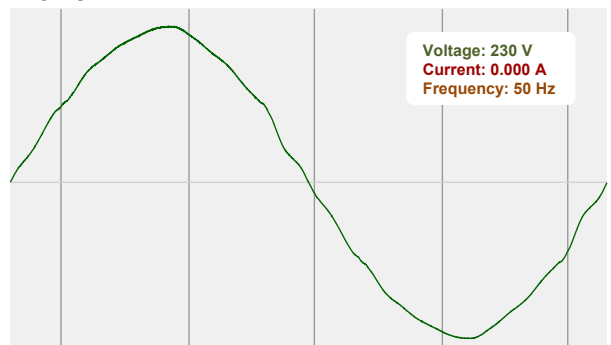


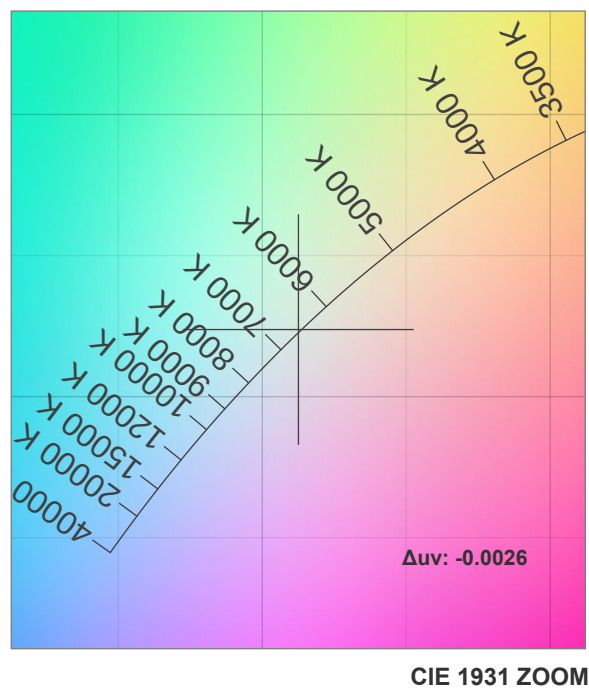
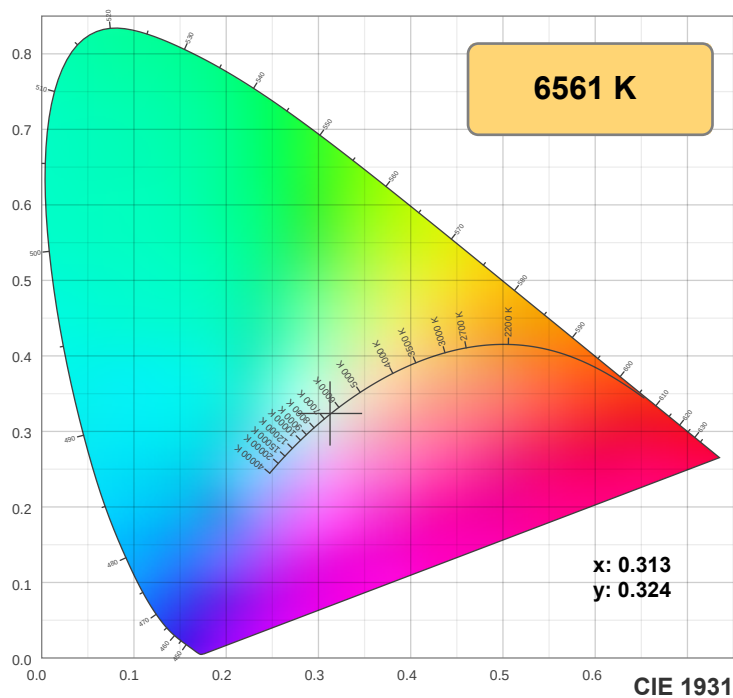
CIE 1931
x: 0.313
y: 0.324

Spectra

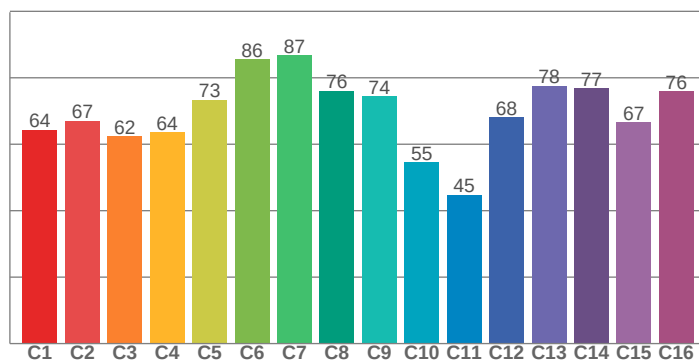


Power

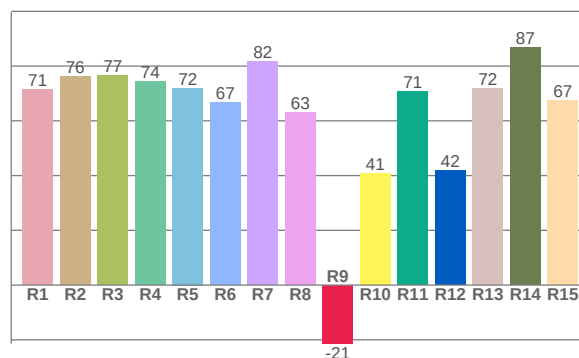




TM30: 69.3



CRI: 72.8 (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
71.5	76.3	76.7	74.4	72.0	66.7	81.6	63.2	-21.4	40.9	70.8	41.9	71.9	86.7	67.3

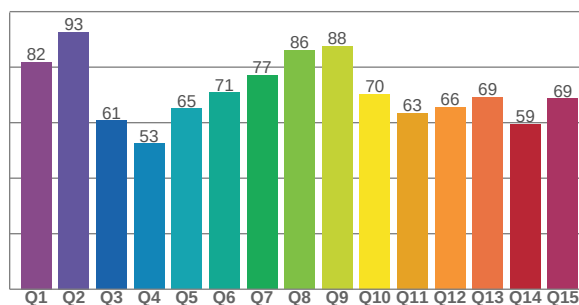
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
64.3	67.0	62.4	63.5	73.3	85.5	86.8	76.1	74.5	54.5	44.8	68.1	77.6	76.8	66.6	75.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.9	92.7	60.8	52.5	65.0	70.8	77.1	86.1	87.7	70.3	63.5	65.6	69.3	59.4	68.7

CQS: 69.3



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
6561 K	72.8	-21.4	69.3	93.4	69.3	0.313	0.324	0.200	0.310	-0.0026

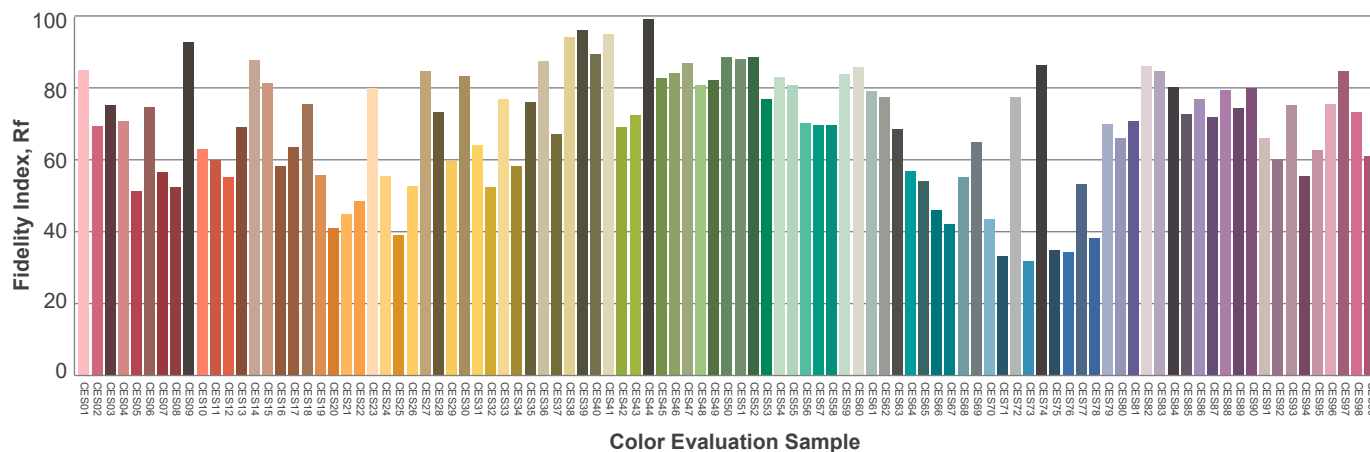
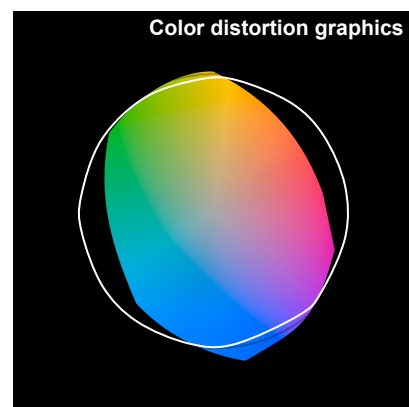
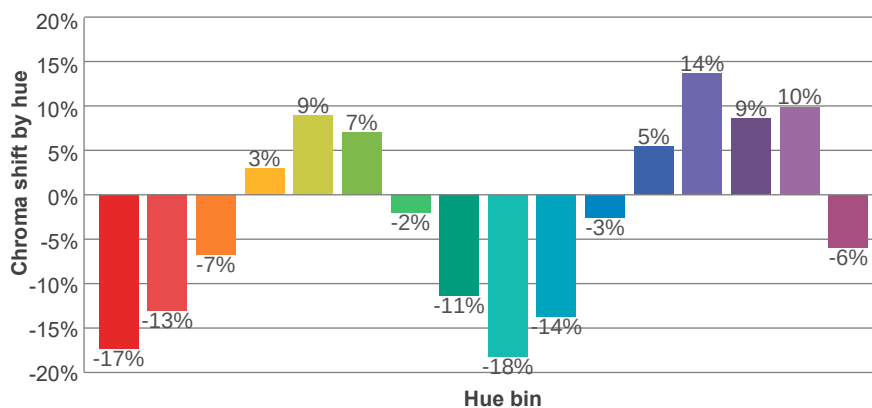
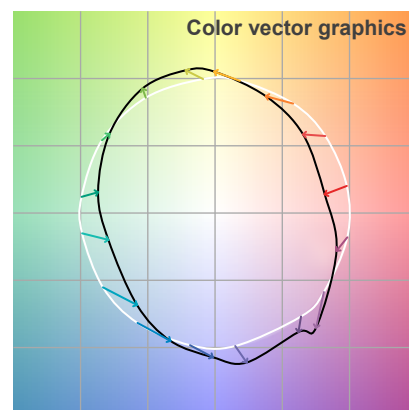
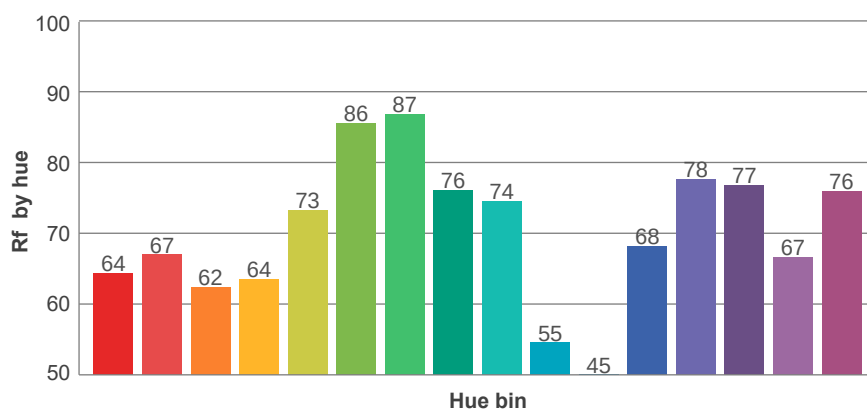
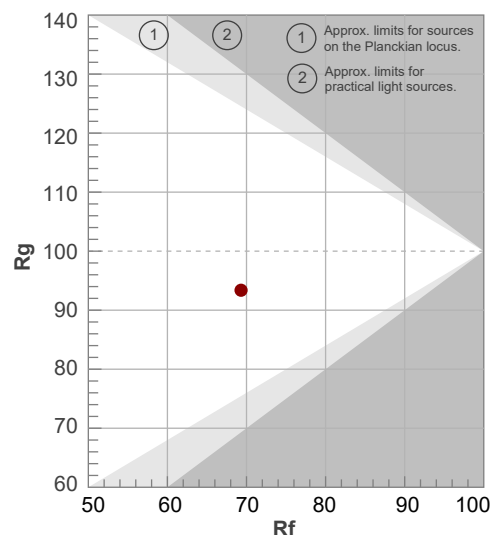
Rf 69.3

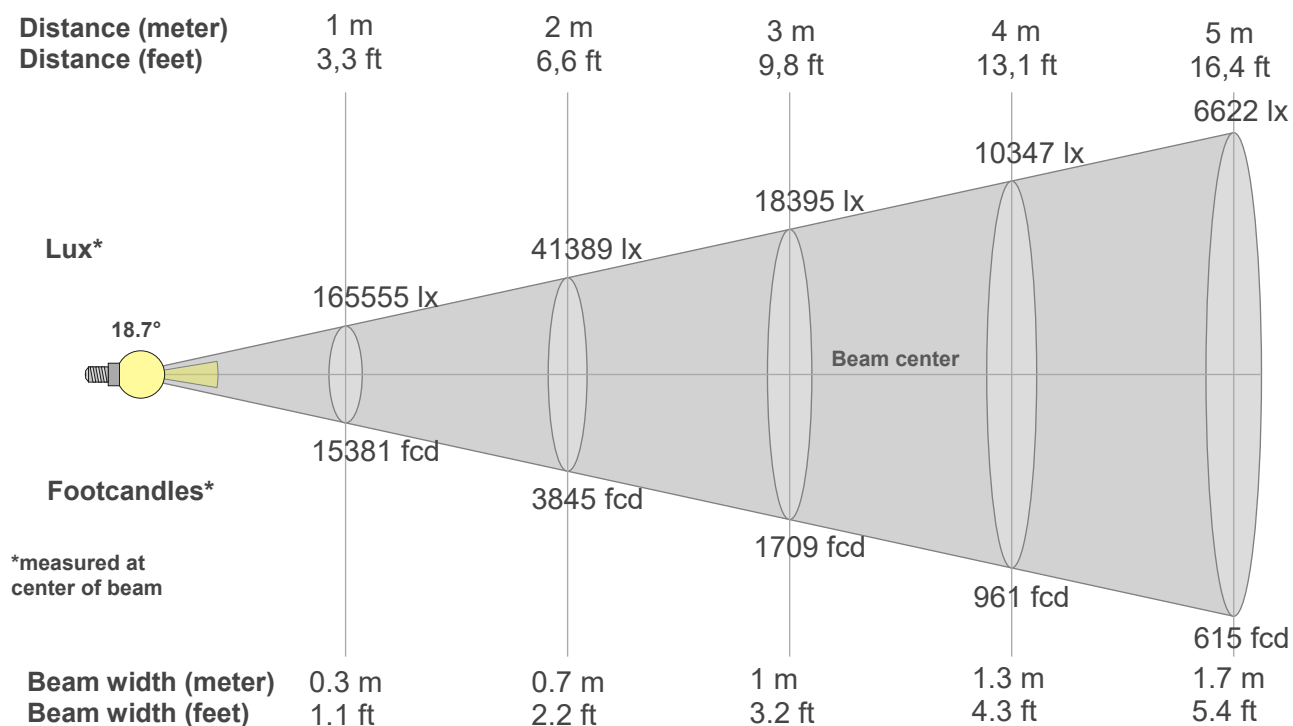
Fidelity index Rf

Rg 93.4

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	64	-17%	-3%
2	67	-13%	10%
3	62	-7%	20%
4	64	3%	20%
5	73	9%	11%
6	86	7%	-2%
7	87	-2%	-7%
8	76	-11%	-6%
9	74	-18%	9%
10	55	-14%	25%
11	45	-3%	28%
12	68	5%	18%
13	78	14%	6%
14	77	9%	-8%
15	67	10%	-25%
16	76	-6%	-11%




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
165555lx	41389lx	18395lx	10347lx	6622lx	4599lx	3379lx	2587lx	2044lx	1656lx	1368lx	1150lx	980lx	845lx	736lx	647lx	573lx	511lx	459lx	414lx
15380.5 fcd	3845.1 fcd	1708.9 fcd	961.3 fcd	615.2 fcd	427.2 fcd	313.9 fcd	240.3 fcd	189.9 fcd	153.8 fcd	127.1 fcd	106.8 fcd	91 fcd	78.5 fcd	68.4 fcd	60.1 fcd	53.2 fcd	47.5 fcd	42.6 fcd	38.5 fcd

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°
166K	167K	168K	167K	165K	162K	158K	151K	141K	127K	24K	2K	1K	1K	1K	1K	1K	0K	0K	0K
100%	101%	101%	101%	99%	98%	95%	91%	85%	77%	14%	1%	1%	1%	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°
166K	167K	168K	167K	165K	162K	158K	152K	143K	125K	56K	2K	1K	1K	1K	1K	1K	1K	0K	0K
100%	101%	101%	101%	100%	98%	96%	92%	86%	75%	34%	1%	1%	1%	0%	0%	0%	0%	0%	0%

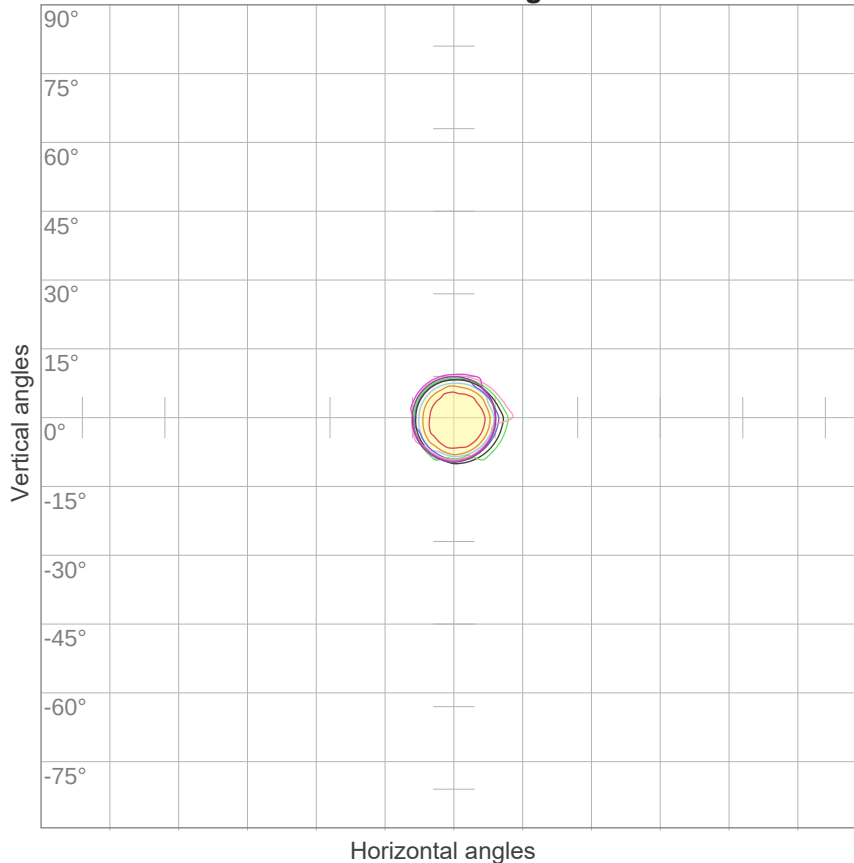
Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
166K	164K	163K	160K	157K	153K	148K	138K	124K	91K	24K	2K	1K	1K	0K	0K	0K	0K	0K	0K
100%	99%	98%	97%	95%	93%	89%	83%	75%	55%	14%	1%	1%	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°
166K	164K	163K	160K	156K	153K	147K	137K	121K	87K	7K	1K	1K	1K	0K	0K	0K	0K	0K	0K
100%	99%	98%	97%	94%	92%	89%	83%	73%	53%	4%	1%	1%	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
18.7°	20.2°	20.8°	93.3%	92.5%

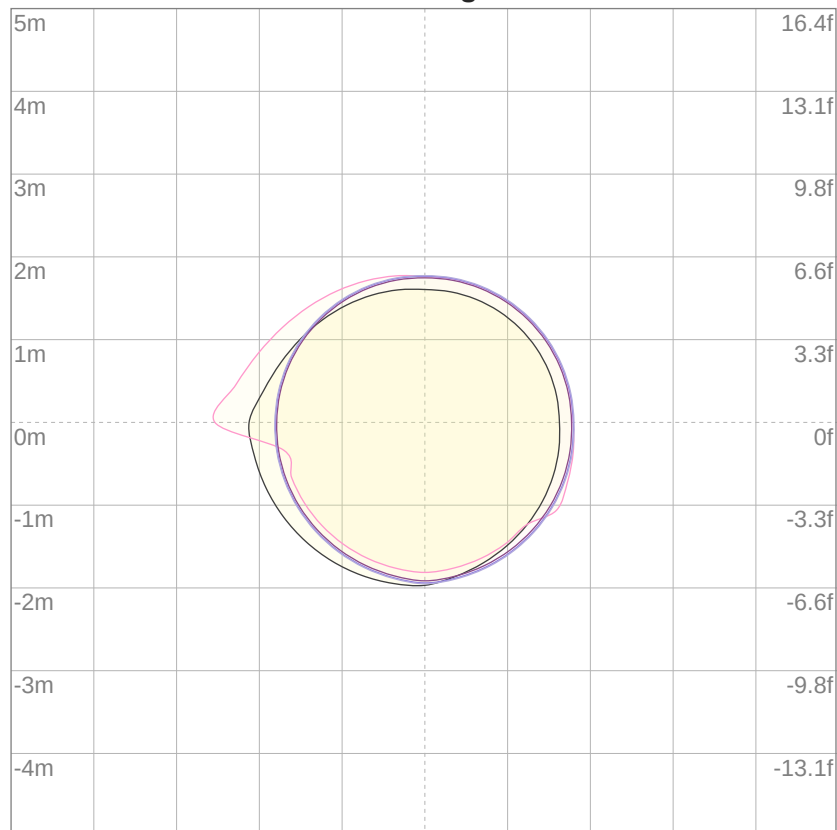
ISO candela diagram


10%	16555 cd
20%	33111 cd
30%	49666 cd
40%	66222 cd
50%	82777 cd
60%	99333 cd
70%	115888 cd
80%	132444 cd
90%	148999 cd

Conditions:

Number of c-planes: 4

Candela at center: 165555 cd

ISO lux diagram


3%	49.7 lx
5%	82.8 lx
10%	166 lx
30%	497 lx
50%	828 lx

Conditions:

Number of c-planes: 4

Lux at center: 1656 lx

*Lux distribution on a surface
when lamp is mounted at 10
meters from the surface.*

p Ceiling	70	70	50	50	30	70	70	50	50	30
p Walls	50	30	50	30	30	50	30	50	30	30
p Floor	20	20	20	20	20	20	20	20	20	20
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 14271 lm total luminous flux										

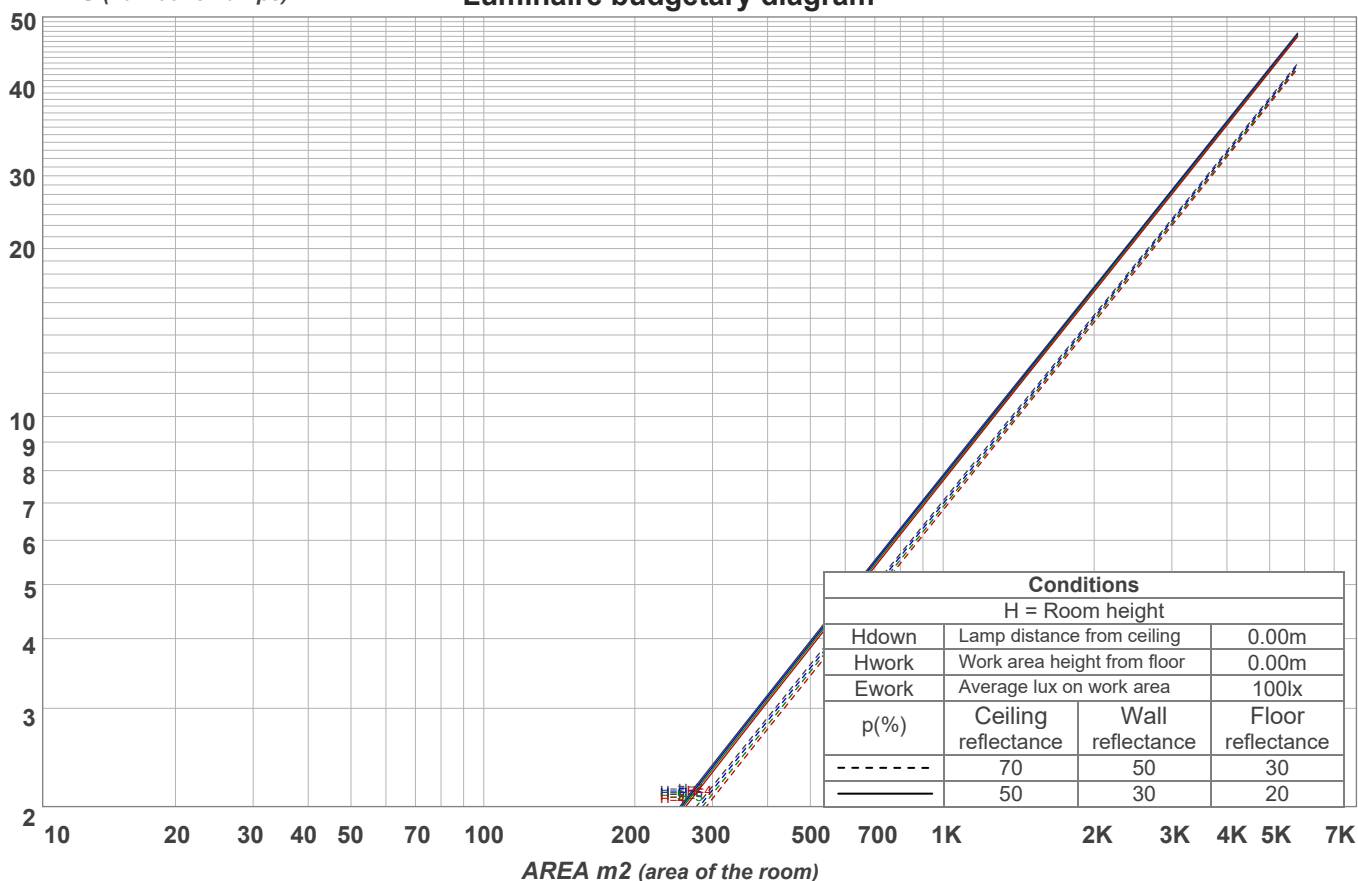
Viso Systems Aps – Copenhagen, Denmark – www.visosystems.com

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio) Room Values are expressed as percentage of Lumens delivered to the task surface																	
0	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	115	113	111	110	112	110	109	107	105	104	103	101	100	99	97	96	96	94
2	112	109	106	104	109	107	105	103	103	101	100	100	98	97	96	95	95	93
3	110	106	103	101	108	104	102	100	101	99	98	99	97	96	96	95	94	92
4	108	104	101	99	106	102	100	98	100	98	96	98	96	95	96	94	93	92
5	106	102	99	97	105	101	98	96	99	97	95	97	95	94	95	94	93	92
6	105	100	98	95	103	100	97	95	98	96	94	96	95	93	95	93	92	91
7	104	99	96	95	102	99	96	94	97	95	93	96	94	93	95	93	92	91
8	103	98	96	94	101	98	95	93	96	94	93	95	94	92	94	93	92	91
9	102	97	95	93	101	97	95	93	96	94	92	95	93	92	94	93	91	91
10	101	97	94	93	100	96	94	92	95	93	92	95	93	92	94	92	91	91

LAMPS (number of lamps)

Luminaire budgetary diagram



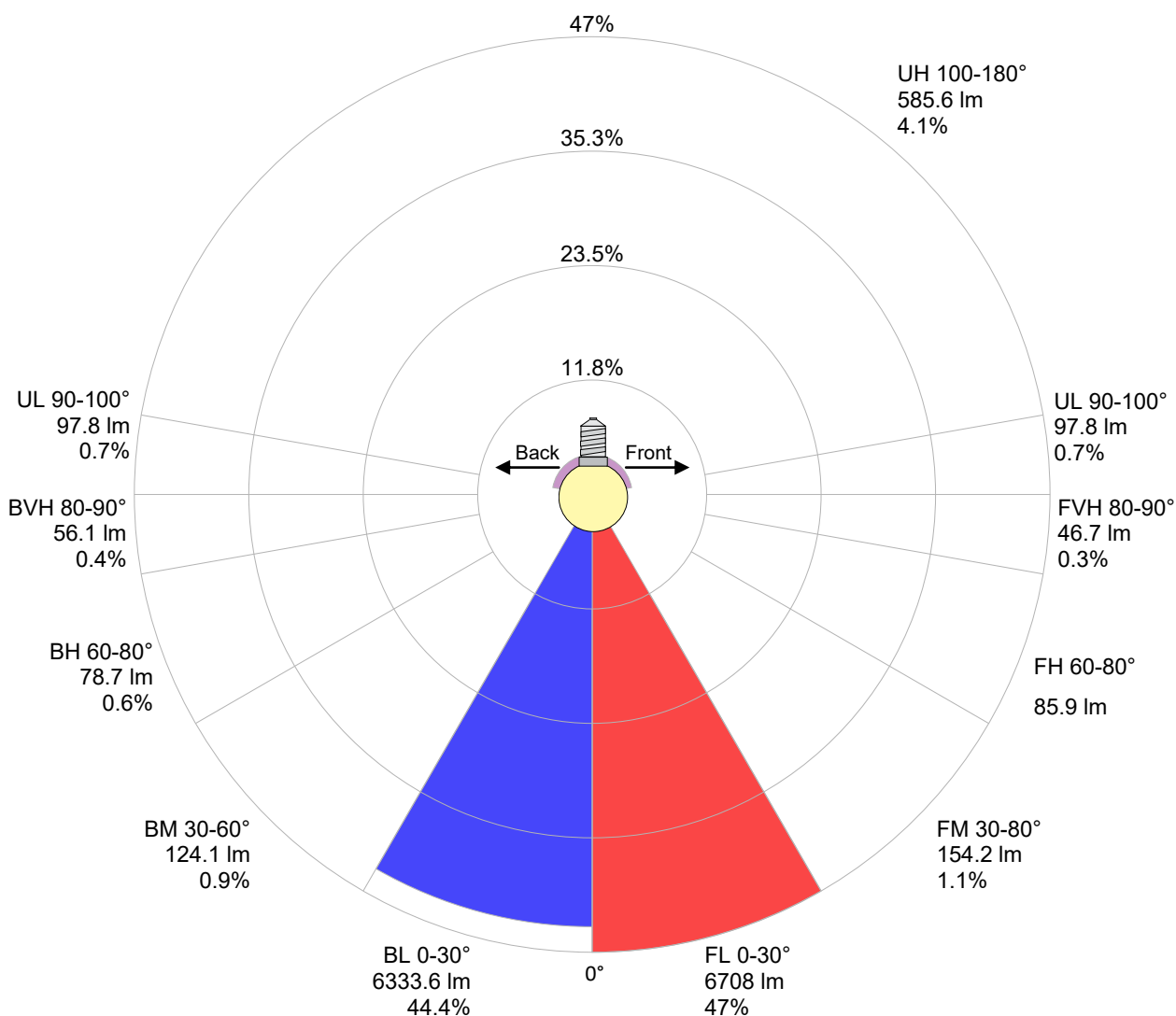
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
12672 lm	242 lm	130 lm	110 lm	88.4 lm	79.6 lm	79.9 lm	84.1 lm	103 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
98.0 lm	80.9 lm	83.9 lm	89.8 lm	99.8 lm	95.8 lm	75.9 lm	46.5 lm	12.2 lm

LCS table

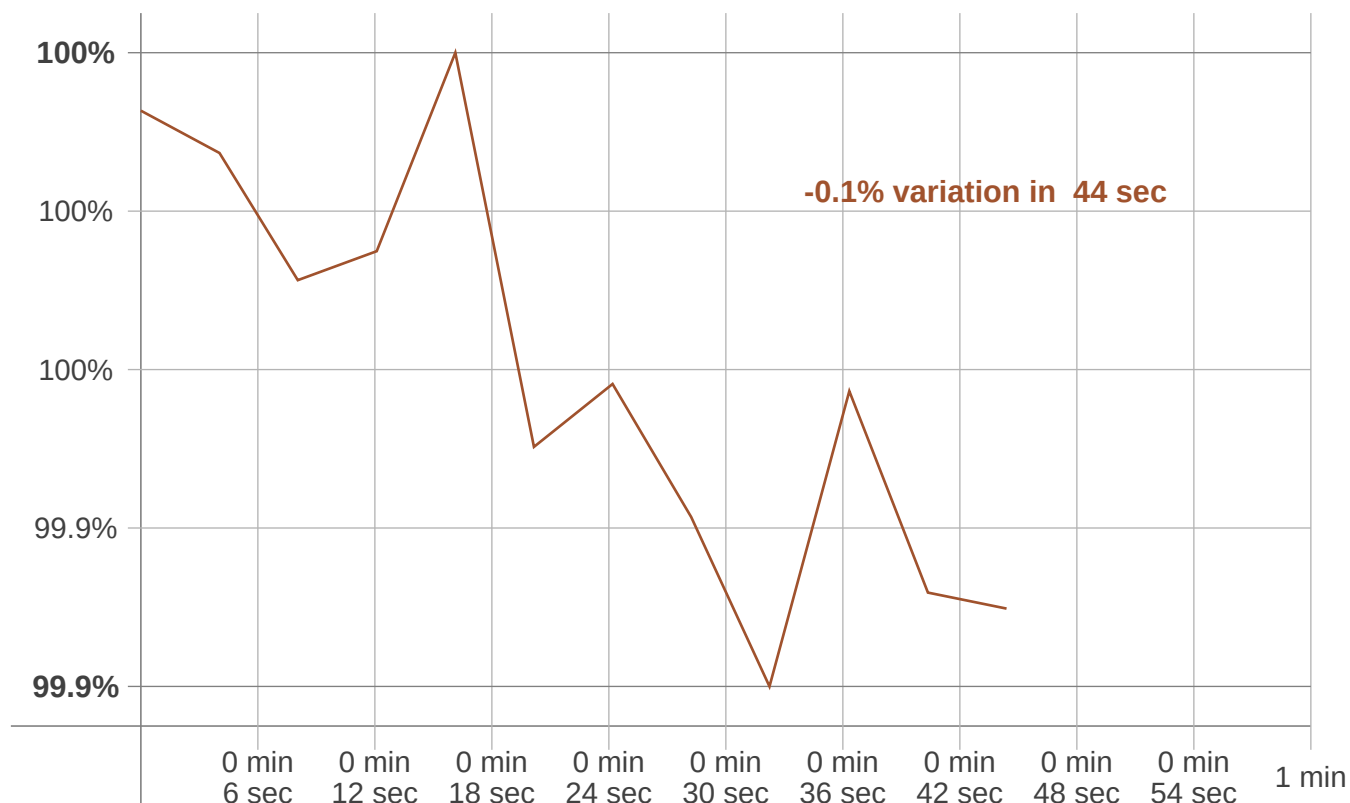
BUG rating:	B5 U4 G1	
Forward light	Lumens	Lumens %
Low(0-30):	6708	47%
Medium(30-60):	154.2	1.1%
High(60-80):	85.9	0.6%
Very high(80-90):	46.7	0.3%
Back light		
Low(0-30):	6333.6	44.4%
Medium(30-60):	124.1	0.9%
High(60-80):	78.7	0.6%
Very high(80-90):	56.1	0.4%
Uplight		
Low(90-100):	97.8	0.7%
High(100-180):	585.6	4.1%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	Not completed
Warmup variation	-0.1%

Warmup conditions

Stable period:	15 min
Stable change max:	2.0%
Minimum time:	15 min

Color temperature change

CCT start	CCT change	CCT end
6560 K	+2 K	6561 K

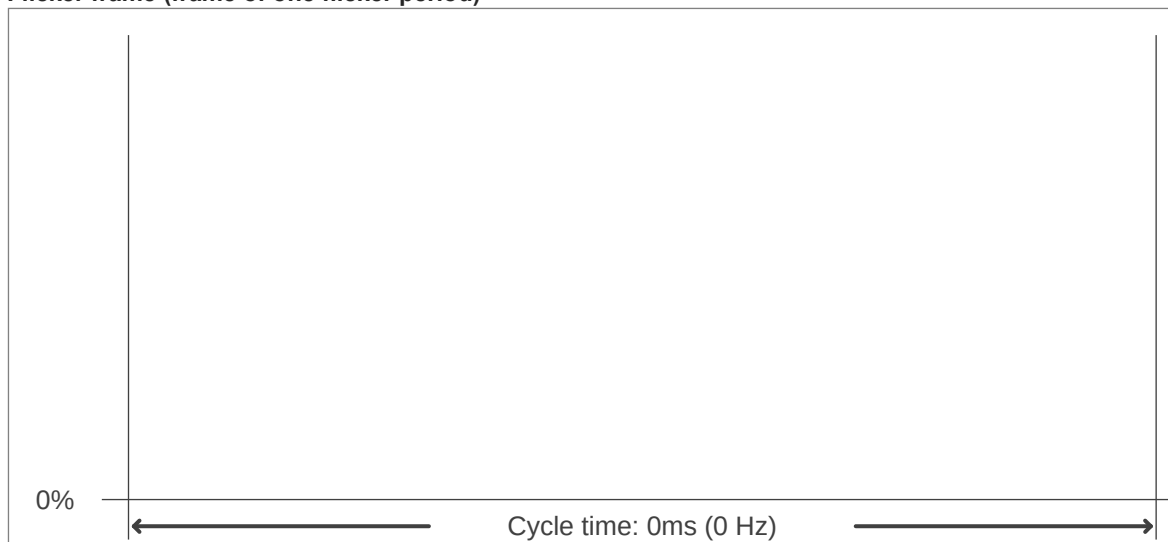
Output change

Output start	Output change	Output end
14277 lm	-6 lm	14271 lm

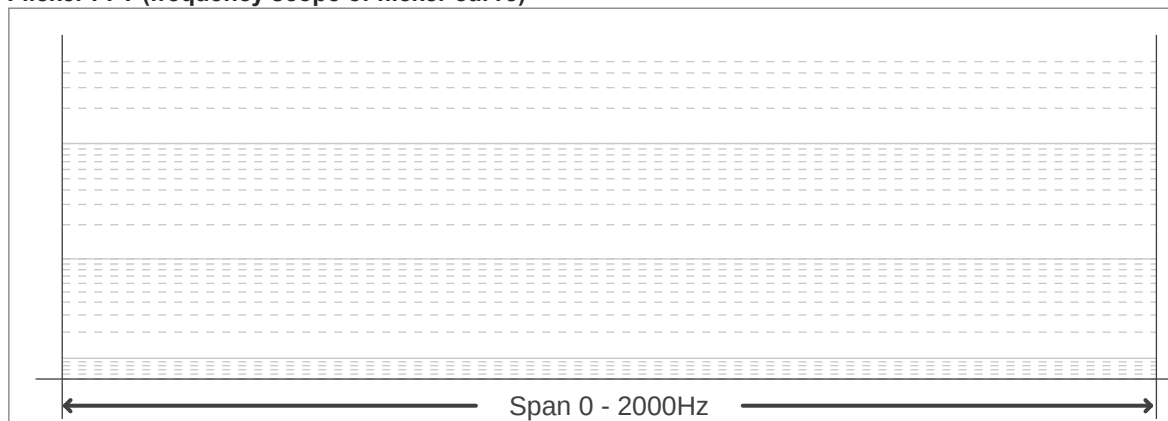
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	n/a Hz
Flicker index:	n/a
Flicker percentage:	n/a %
SVM: (Visual flicker)	n/a

Flicker conditions:

Sample rate:	0 samples/second
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