

## Light efficiency:

n/a Lumen/Watt

## Light quality:

CRI: 93.5

## Color temperature:

4237 K

Output: 663 lm/ft

Peak: 219 cd

Power: 0.00 W

PF: n/a

No photo

## Product name:

VariTune RazorLine 6.1 TW 2700K-6500K 100-100

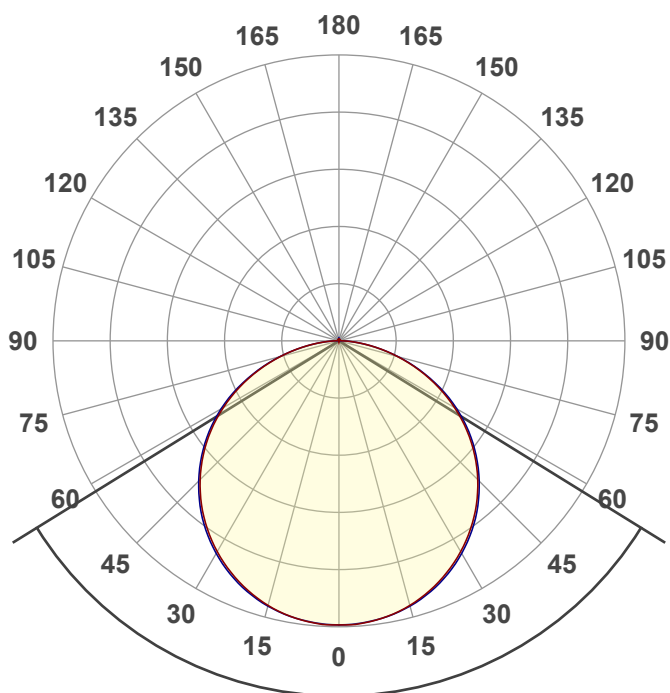
## Item number:

AL-01-38-2401

## Date and time:

7/15/2025 2:46:25 PM

## Description:



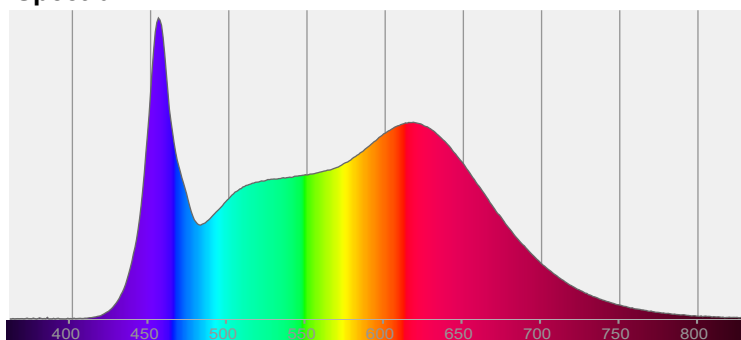
Beam angle

116.5°

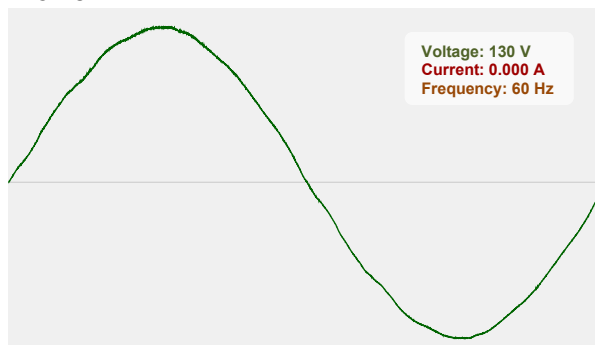


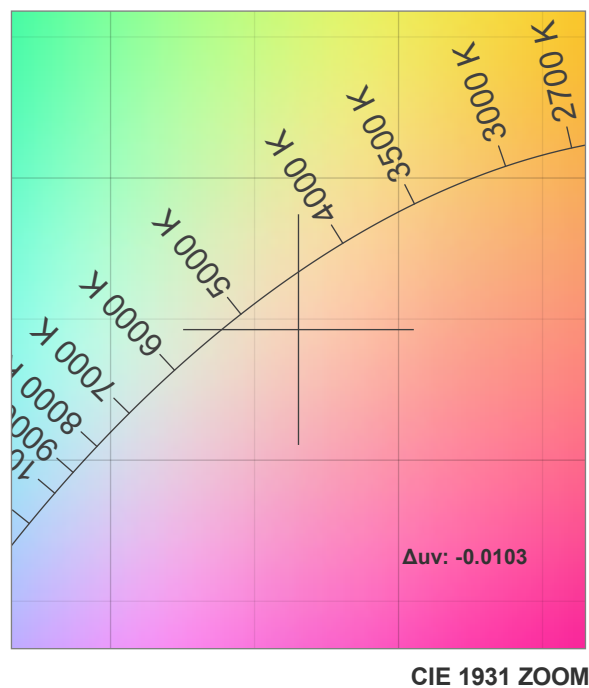
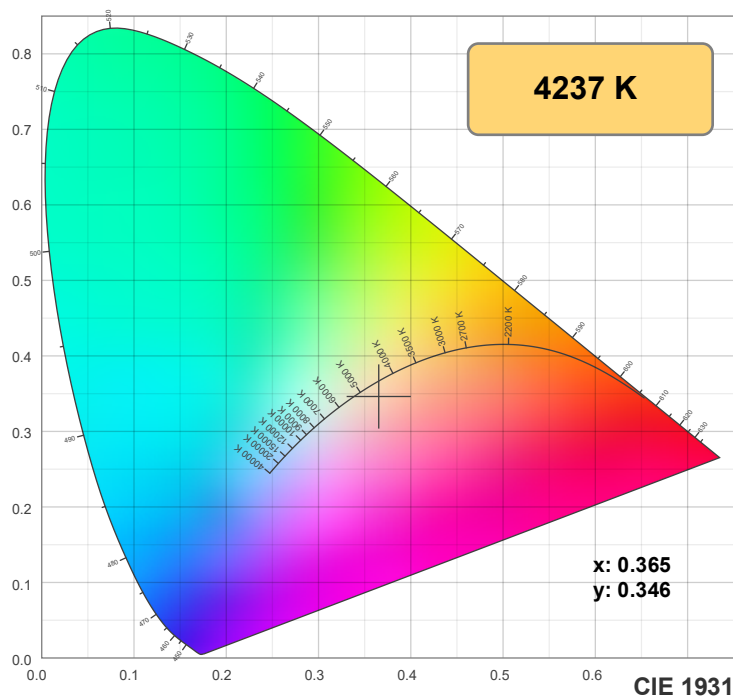
CIE 1931  
x: 0.365  
y: 0.346

## Spectra

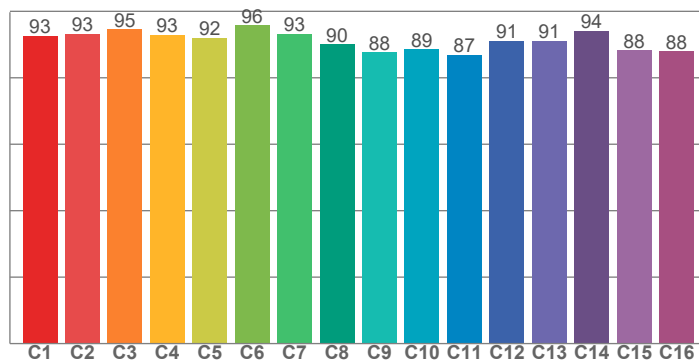


## Power

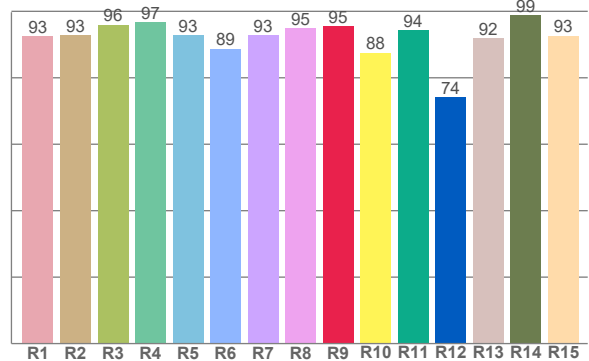




**TM30: 91.2**



**CRI: 93.5 (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
92.6	92.9	96.0	96.7	92.8	88.8	92.8	95.0	95.4	87.5	94.3	74.1	91.9	98.8	92.7

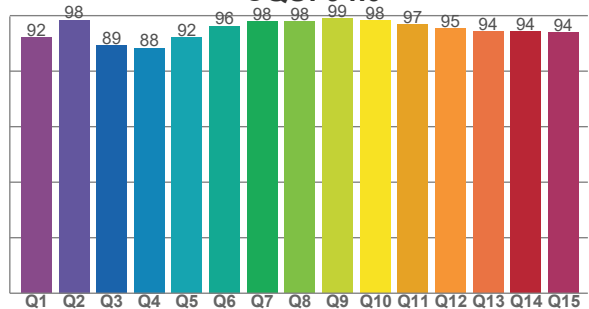
**TM30 C values, 16 binned values out of total of 99 C values**

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.6	93.3	94.6	93.0	92.0	95.7	93.2	90.1	87.6	88.6	86.9	91.2	91.1	94.2	88.3	88.0

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
92.1	98.4	89.2	88.3	92.1	96.2	97.8	97.9	98.9	98.2	96.7	95.4	94.3	94.2	93.9

**CQS: 94.0**



### 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
4237 K	93.5	95.4	91.2	100.8	94.0	0.365	0.346	0.227	0.323	-0.0103

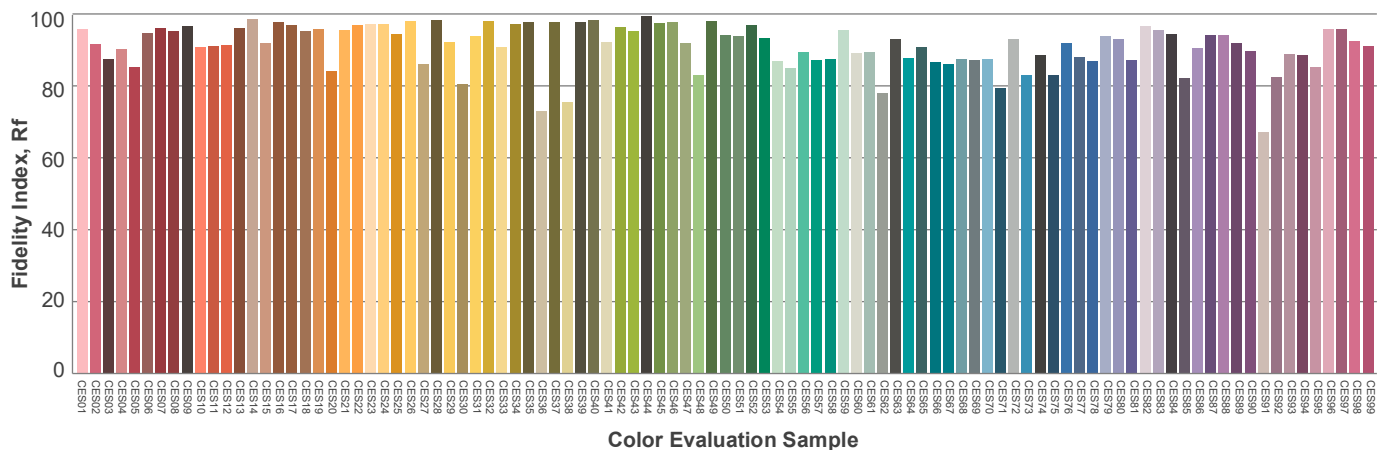
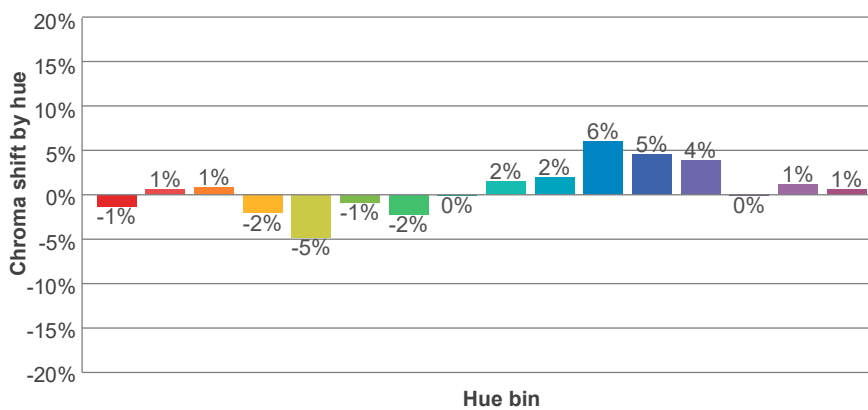
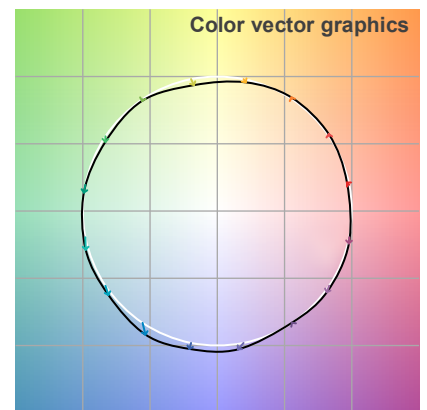
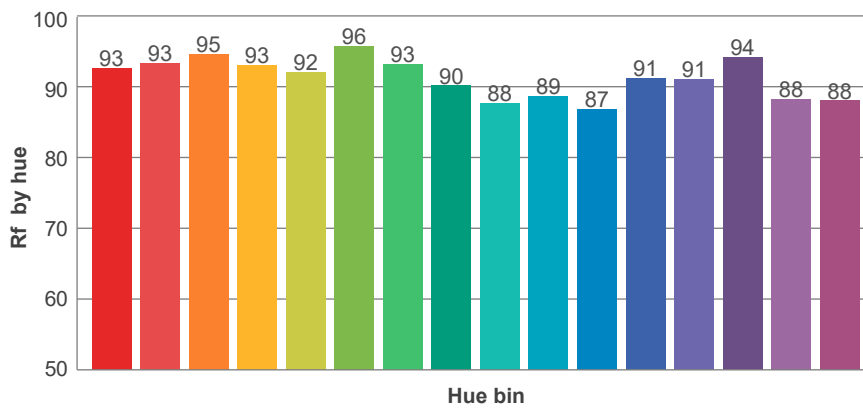
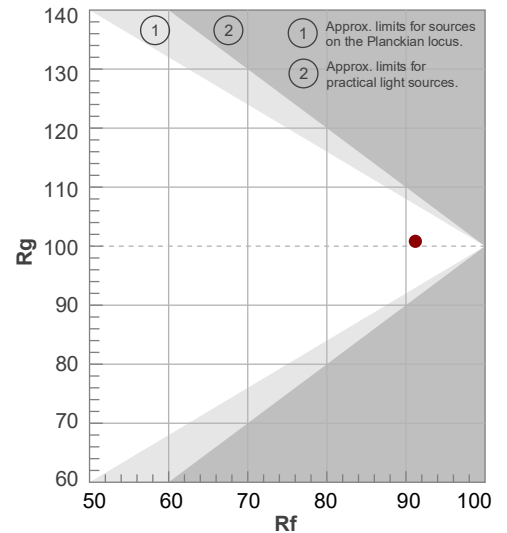
**Rf 91.2**

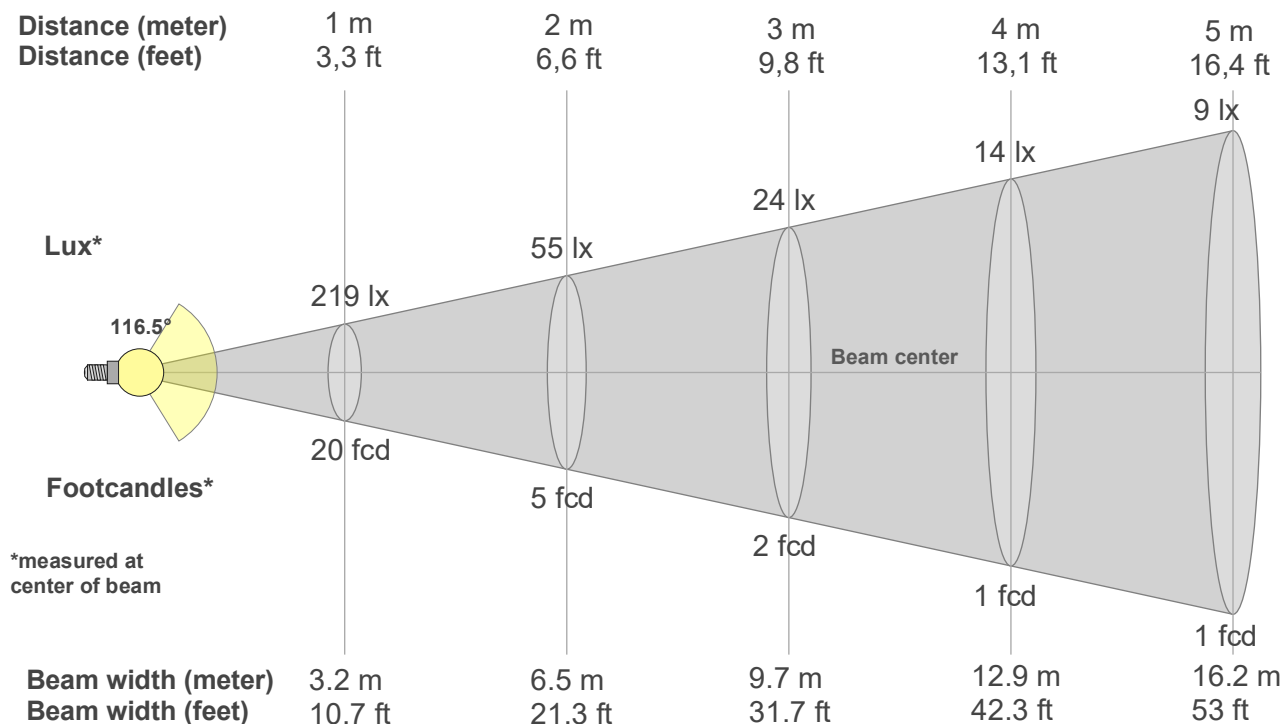
Fidelity index Rf

**Rg 100.8**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	93	-1%	2%
2	93	1%	1%
3	95	1%	1%
4	93	-2%	-2%
5	92	-5%	-1%
6	96	-1%	1%
7	93	-2%	3%
8	90	0%	6%
9	88	2%	9%
10	89	2%	7%
11	87	6%	7%
12	91	5%	0%
13	91	4%	-5%
14	94	0%	0%
15	88	1%	-5%
16	88	1%	-5%





### 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
219lx	55lx	24lx	14lx	9lx	6lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
20.3fcd	5.1fcd	2.3fcd	1.3fcd	0.8fcd	0.6fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

### 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°
219	218	216	211	205	197	188	177	165	151	136	120	103	84	66	47	29	13	3	1
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	55%	47%	39%	30%	21%	13%	6%	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°
219	218	216	212	206	198	189	178	166	153	138	122	105	86	67	47	28	13	2	1
100%	100%	98%	97%	94%	91%	86%	82%	76%	70%	63%	56%	48%	39%	30%	21%	13%	6%	1%	0%

### Intensities in 180° c-plane

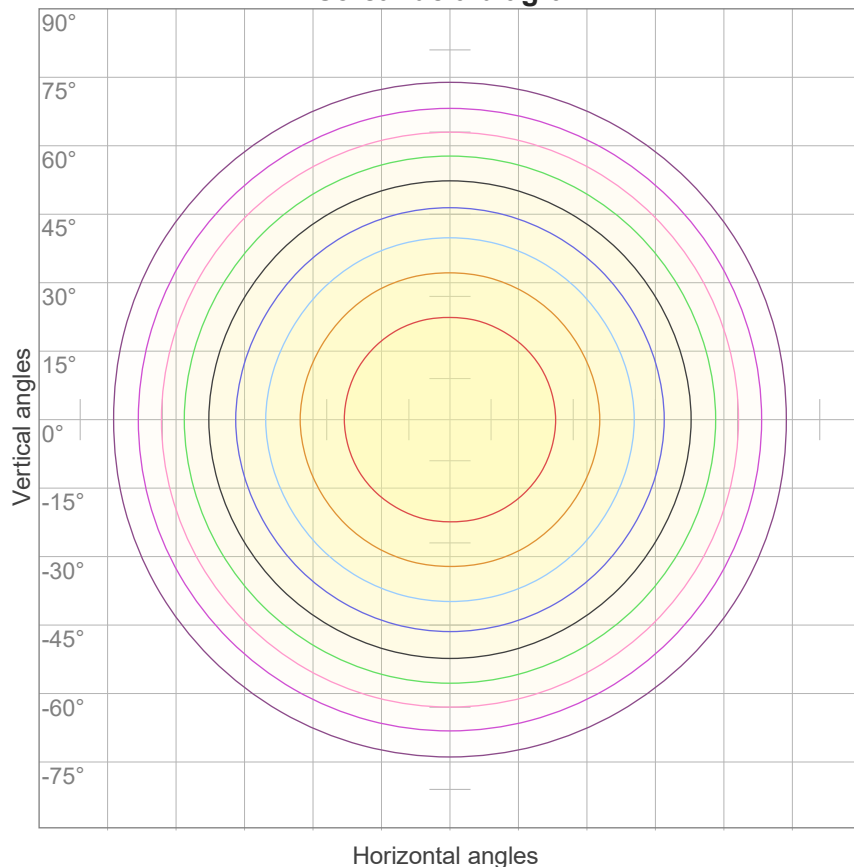
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
219	218	216	211	205	197	188	177	165	151	136	120	103	84	66	47	29	13	3	1
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	55%	47%	39%	30%	21%	13%	6%	1%	1%

### 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°
219	218	216	212	206	198	189	178	166	153	138	122	105	86	67	47	28	13	2	1
100%	100%	98%	97%	94%	91%	86%	82%	76%	70%	63%	56%	48%	39%	30%	21%	13%	6%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
116.5°	164.3°	177.3°	76.5%	51.4%

**iso-candela diagram**



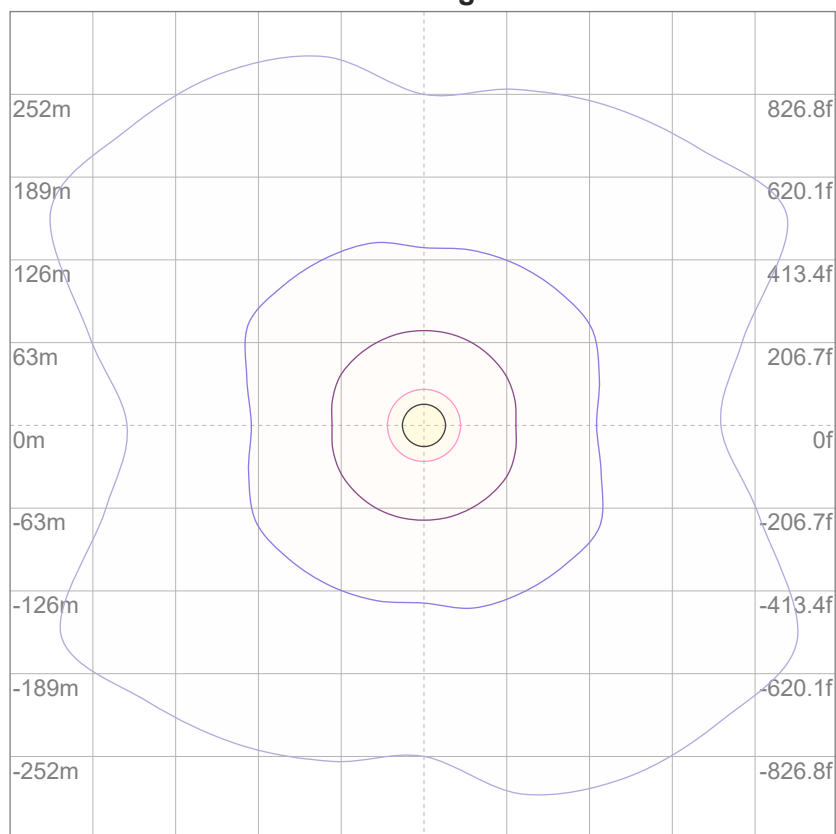
10%	22 cd
20%	44 cd
30%	66 cd
40%	88 cd
50%	109 cd
60%	131 cd
70%	153 cd
80%	175 cd
90%	197 cd

Conditions:

Number of c-planes: 12

Candela at center: 219 cd

**iso-lux diagram**



3%	65.7m lx
5%	0.109 lx
10%	0.219 lx
30%	0.657 lx
50%	1.09 lx

Conditions:

Number of c-planes: 12

Lux at center: 2.19 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
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				
CIE 117-1995. Corrected glare indices referring to 663 lm total luminous flux										

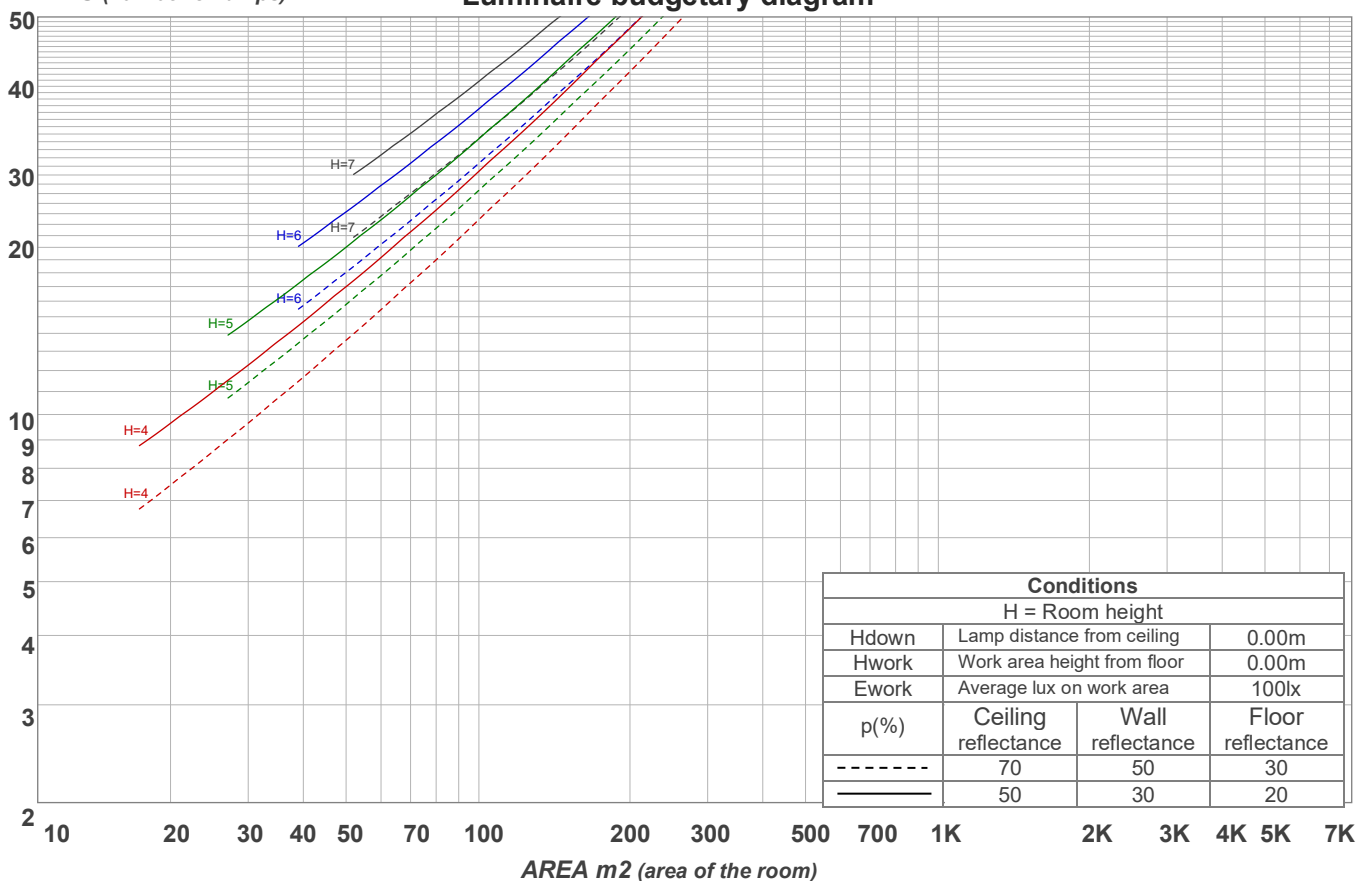
Viso Systems Aps – Copenhagen, Denmark – [www.visosystems.com](http://www.visosystems.com)

### 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	82	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	44	54	48	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

LAMPS (number of lamps)

### Luminaire budgetary diagram



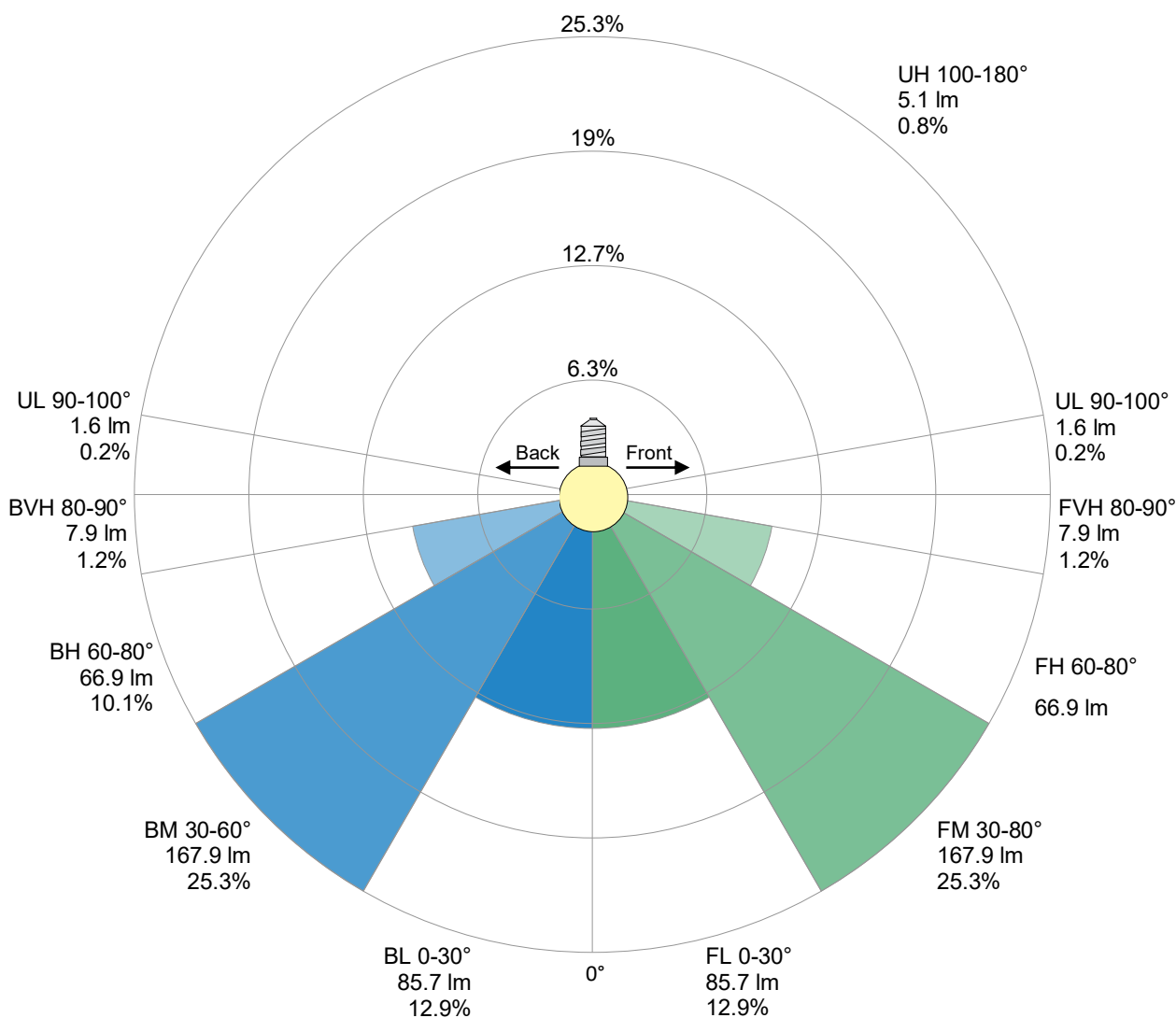
### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	59.7 lm	91.1 lm	111 lm	117 lm	108 lm	84.0 lm	49.7 lm	15.6 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.59 lm	0.924 lm	0.897 lm	0.858 lm	0.793 lm	0.684 lm	0.534 lm	0.339 lm	0.118 lm

**LCS table**

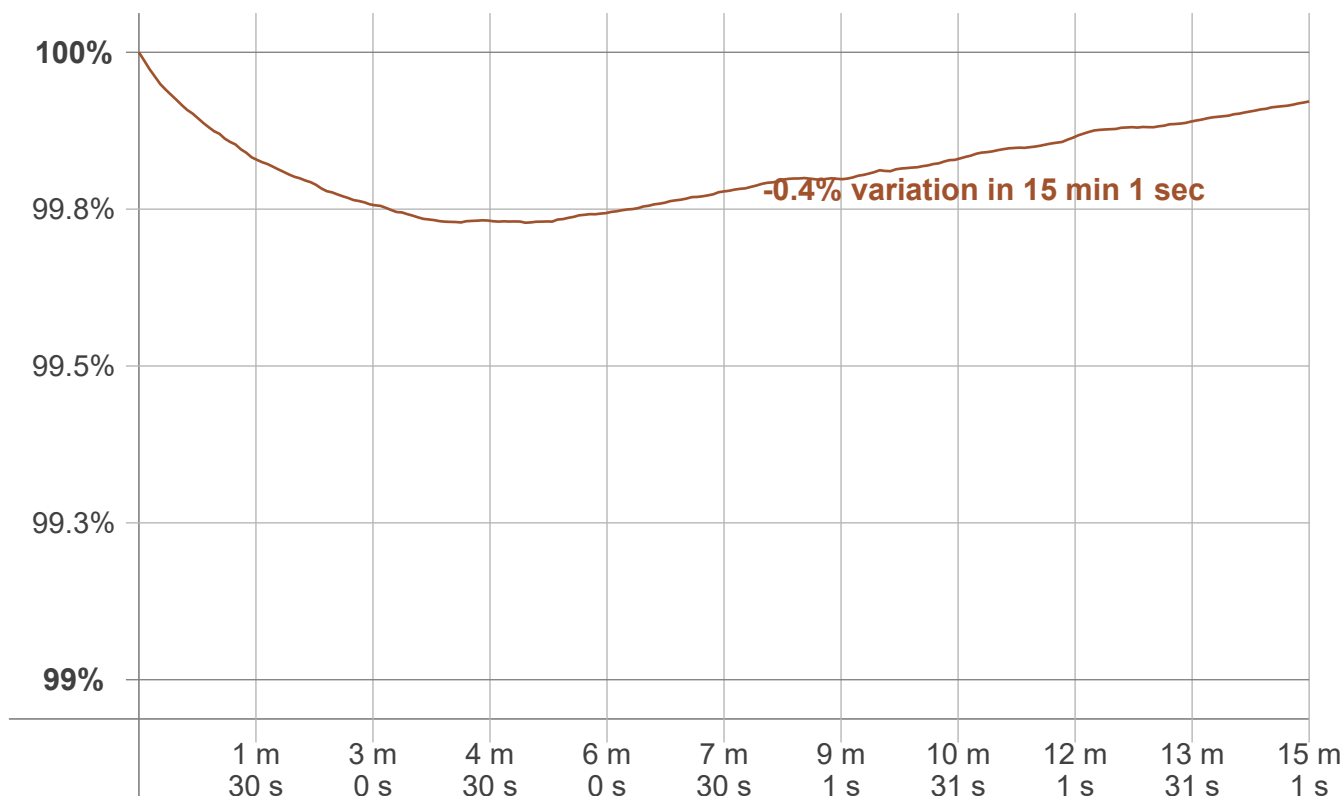
BUG rating:	B0 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	85.7	12.9%
Medium(30-60):	167.9	25.3%
High(60-80):	66.9	10.1%
Very high(80-90):	7.9	1.2%
Back light		
Low(0-30):	85.7	12.9%
Medium(30-60):	167.9	25.3%
High(60-80):	66.9	10.1%
Very high(80-90):	7.9	1.2%
Uplight		
Low(90-100):	1.6	0.2%
High(100-180):	5.1	0.8%

**LCS graph**





### Warmup curve



### Warmup result

Warmup time:	Lamp stabilized in 15 min 1 sec
Warmup variation	-0.4%

### Warmup conditions

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

### Color temperature change

CCT start	CCT change	CCT end
4221 K	+16 K	4237 K

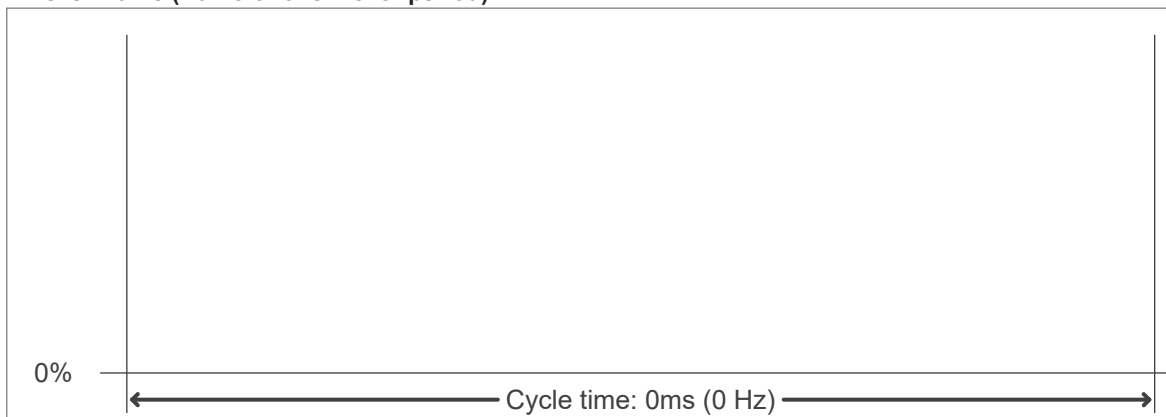
### Output change

Output start	Output change	Output end
664 lm	-1 lm	663 lm

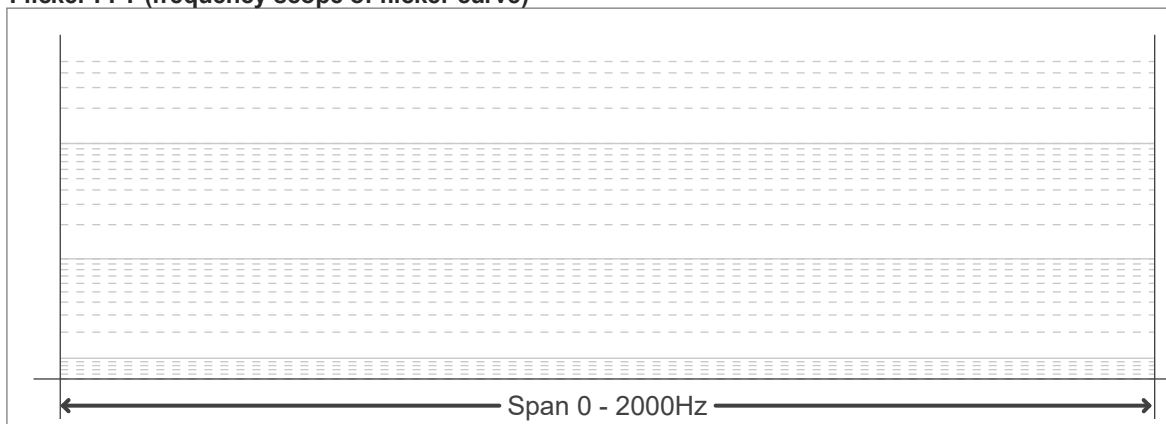
**Flicker curve (complete sampled flicker signal)**



**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	JA8/10 40Hz	n/a %
Flicker percentage:	n/a %	JA8/10 90Hz	n/a %
SVM: (Visual flicker)	n/a	JA8/10 200Hz	n/a %
PstLM	n/a	JA8/10 400Hz	n/a %
Mp	n/a	JA8/10 1000Hz	n/a %

**Flicker conditions:**

Sample rate:	n/a samples/second
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