

Light efficiency:

n/a Lumen/Watt

Light quality:

CRI: 91.4

Color temperature:

2687 K

Output: 317 lm/ft

Peak: 103 cd

Power: 0.00 W

PF: n/a

No photo

Product name:

ThermaLine 3 -2700K

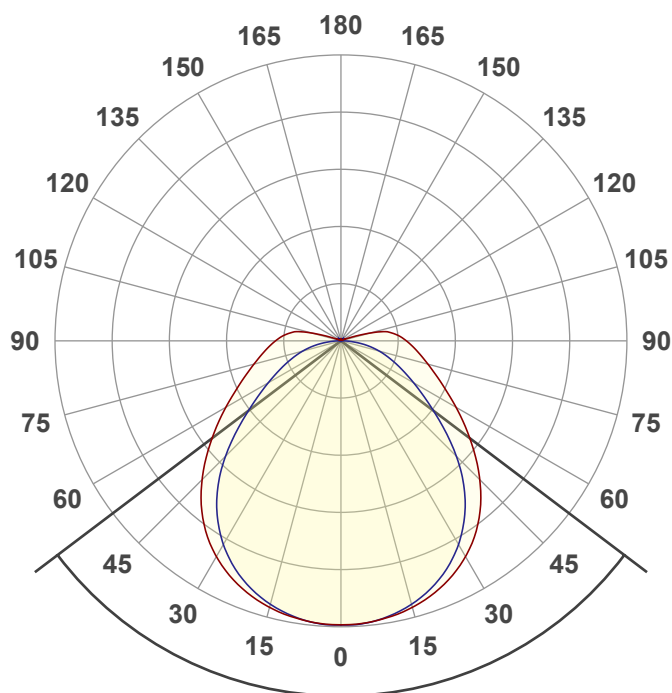
Item number:

AL-01-65-2461

Date and time:

7/15/2025 11:05:02 AM

Description:



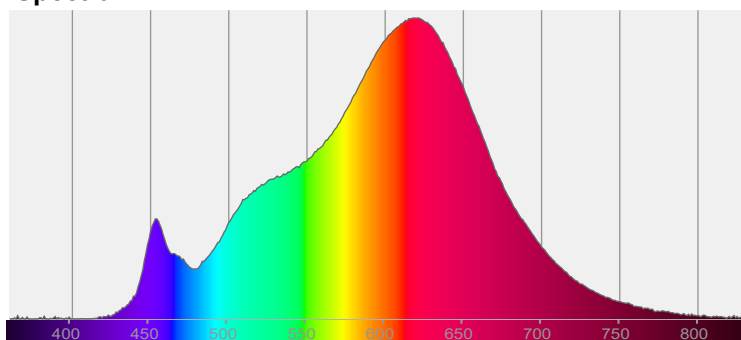
Beam angle

105.8°

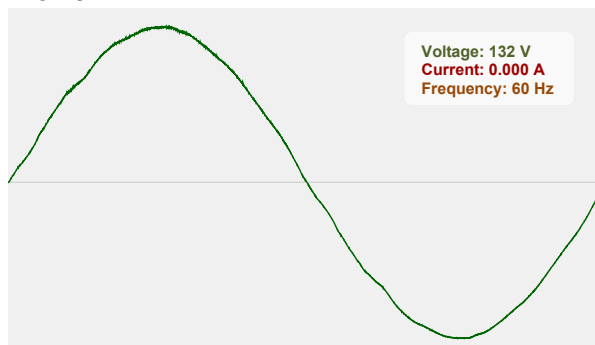


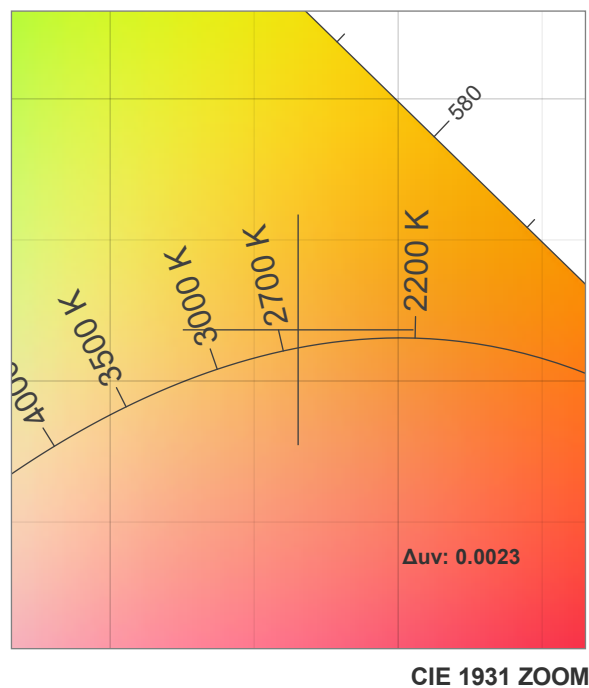
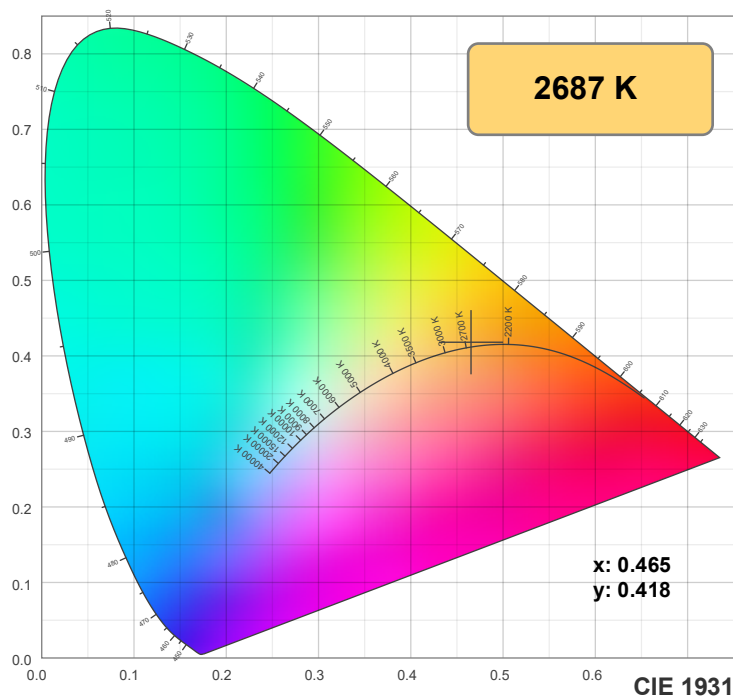
CIE 1931
x: 0.465
y: 0.418

Spectra

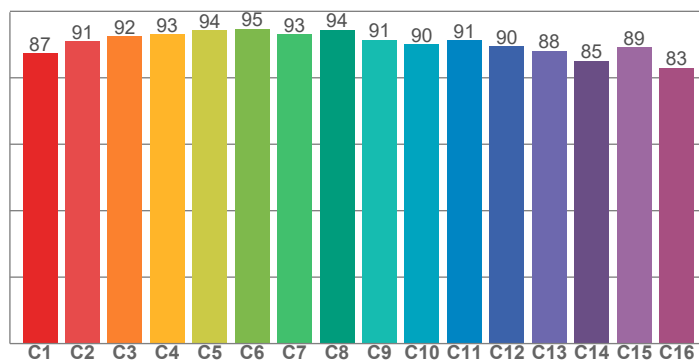


Power

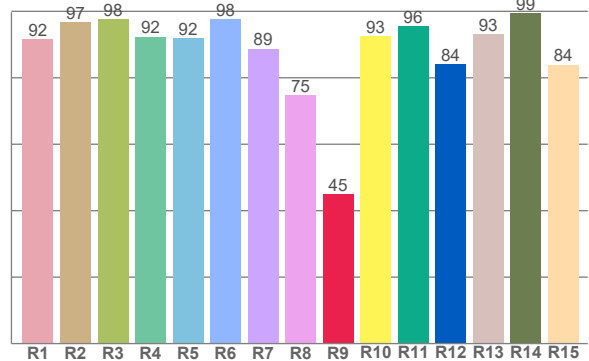




TM-30: 90.5



CRI: 91.4 (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
91.6	96.6	97.7	92.4	92.0	97.7	88.8	74.7	44.9	92.5	95.6	84.2	93.1	99.4	83.9

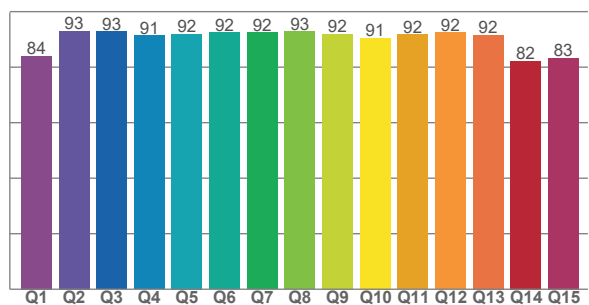
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87.4	90.9	92.4	93.1	94.4	94.7	93.1	94.4	91.5	90.1	91.2	89.6	88.2	85.1	89.1	83.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84.1	93.1	92.9	91.4	92.0	92.4	92.5	92.9	91.9	90.6	91.8	92.4	91.5	82.2	83.3

CQS: 89.5



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
2687 K	91.4	44.9	90.5	95.7	89.5	0.465	0.418	0.263	0.354	0.0023

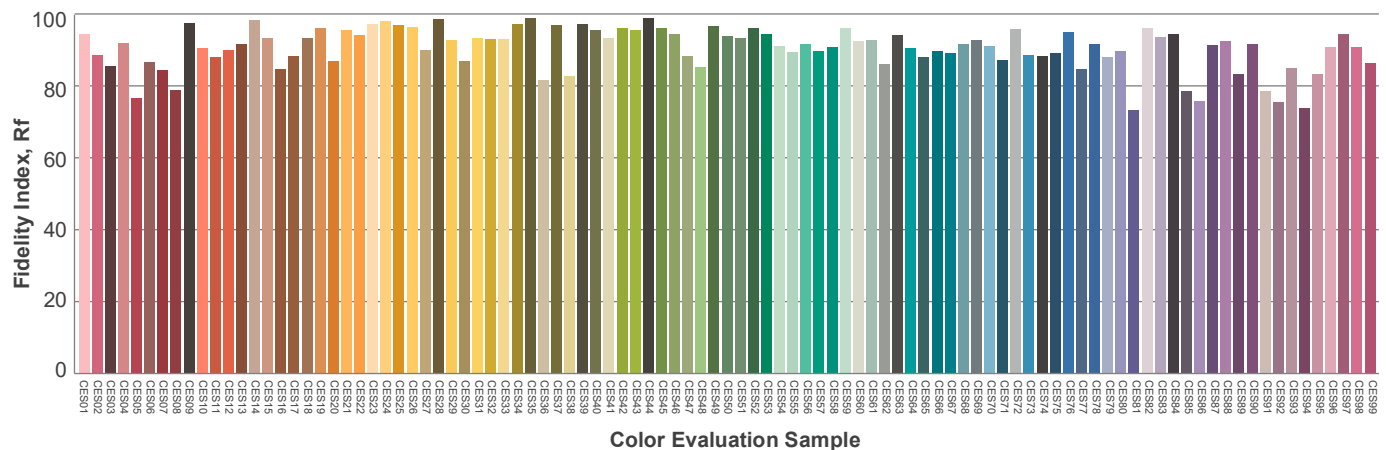
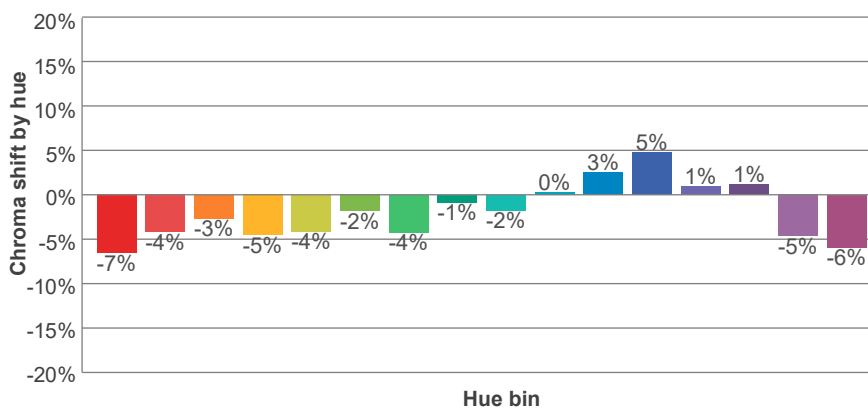
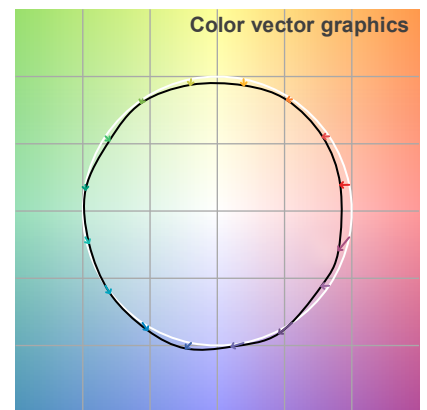
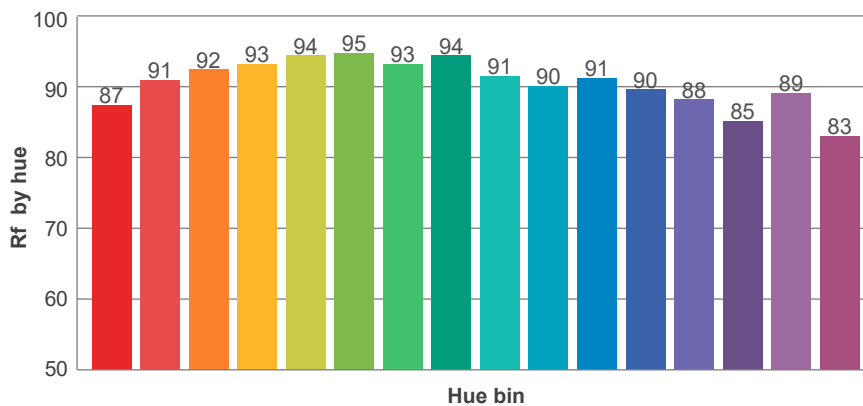
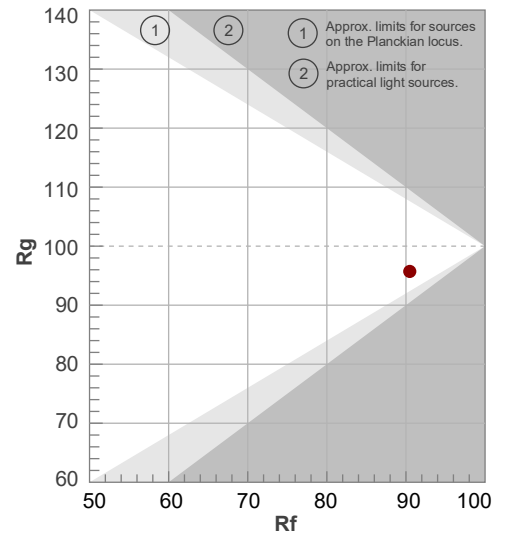
Rf 90.5

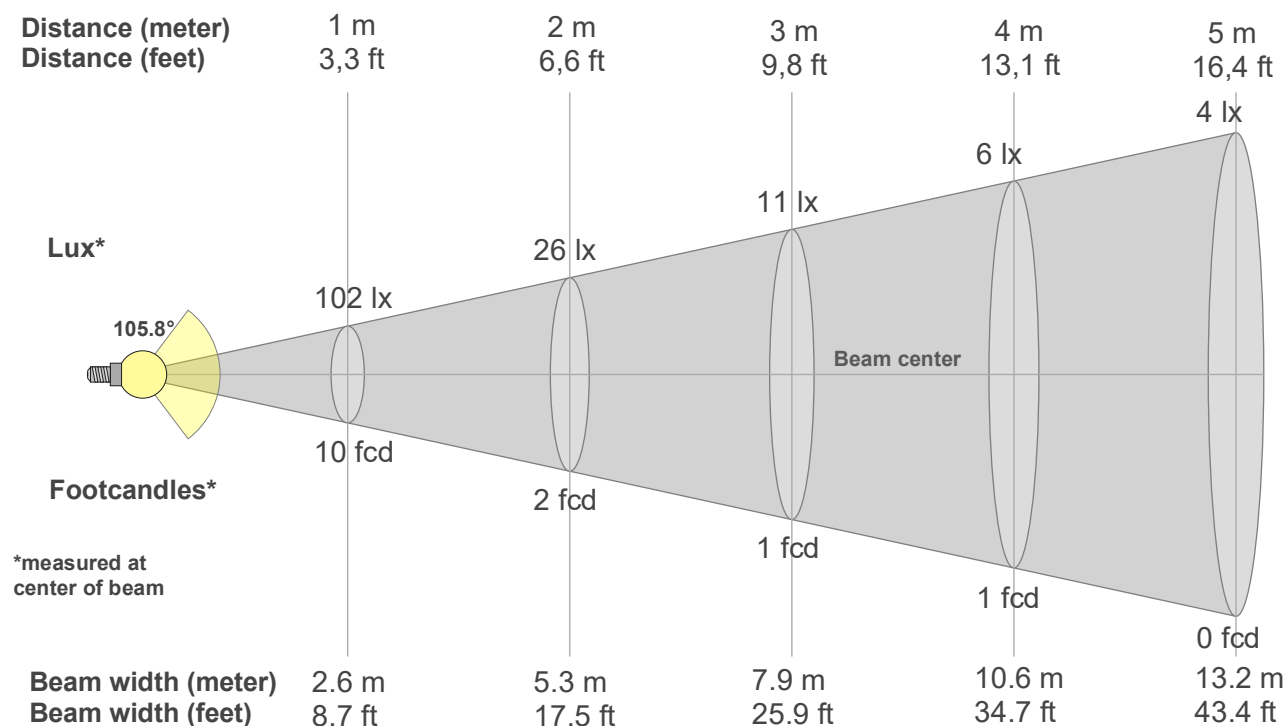
Fidelity index Rf

Rg 95.7

Gamut index Rg

Hue Bin	R _r	Shifts (%)	
		Chroma	Hue
1	87	-7%	1%
2	91	-4%	2%
3	92	-3%	3%
4	93	-5%	-1%
5	94	-4%	1%
6	95	-2%	2%
7	93	-4%	1%
8	94	-1%	4%
9	91	-2%	5%
10	90	0%	6%
11	91	3%	6%
12	90	5%	-3%
13	88	1%	-9%
14	85	1%	-12%
15	89	-5%	-3%
16	83	-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
102lx	26lx	11lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx
9.5fcd	2.4fcd	1.1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
102	101	98	92	83	71	57	44	35	29	24	18	6	1	1	0	0	1	0	1
100%	99%	96%	90%	81%	69%	55%	43%	34%	28%	23%	18%	6%	1%	1%	0%	0%	1%	0%	1%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
102	101	96	88	76	59	40	26	17	9	1	0	0	0	0	0	0	0	0	1
100%	99%	94%	86%	74%	57%	39%	26%	17%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%

Intensities in 180° c-plane

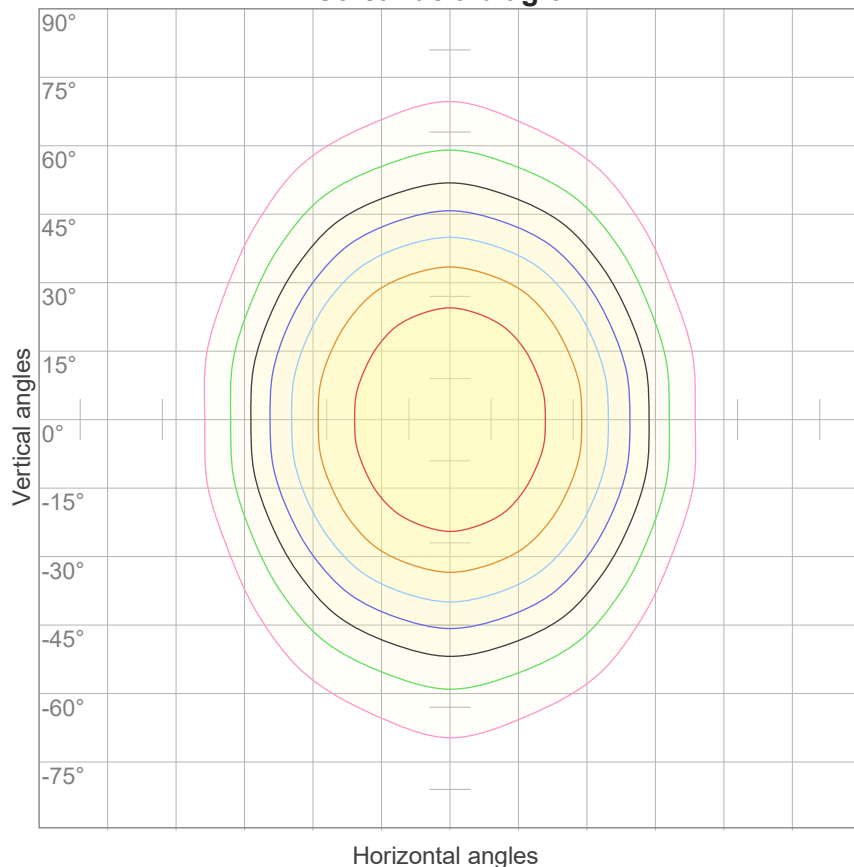
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
102	101	98	92	83	71	57	44	35	29	24	18	6	1	1	0	0	1	0	1
100%	99%	96%	90%	81%	69%	55%	43%	34%	28%	23%	18%	6%	1%	1%	0%	0%	1%	0%	1%

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
102	101	96	88	76	59	40	26	17	9	1	0	0	0	0	0	0	0	0	1
100%	99%	94%	86%	74%	57%	39%	26%	17%	8%	1%	0%	0%	0%	0%	0%	0%	0%	0%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
105.8°	187.9°	204.1°	70.5%	49.5%

iso-candela diagram



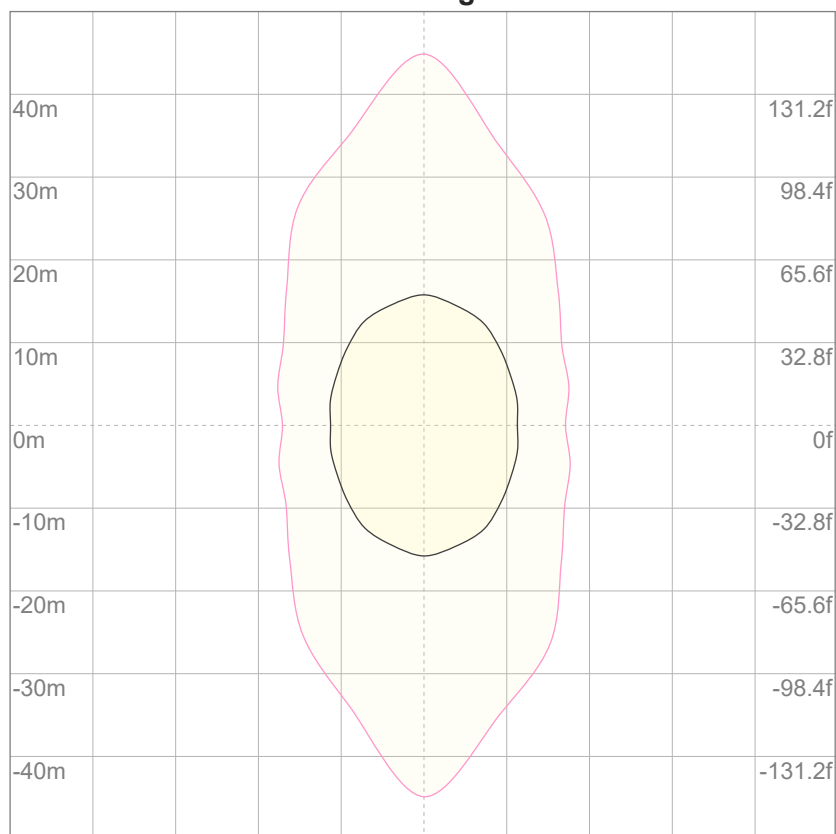
10%	10 cd
20%	20 cd
30%	31 cd
40%	41 cd
50%	51 cd
60%	61 cd
70%	72 cd
80%	82 cd
90%	92 cd

Conditions:

Number of c-planes: 12

Candela at center: 102 cd

iso-lux diagram



3%	30.7m lx
5%	51.2m lx
10%	0.102 lx
30%	0.307 lx
50%	0.512 lx

Conditions:

Number of c-planes: 12

Lux at center: 1.02 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 317 lm total luminous flux										

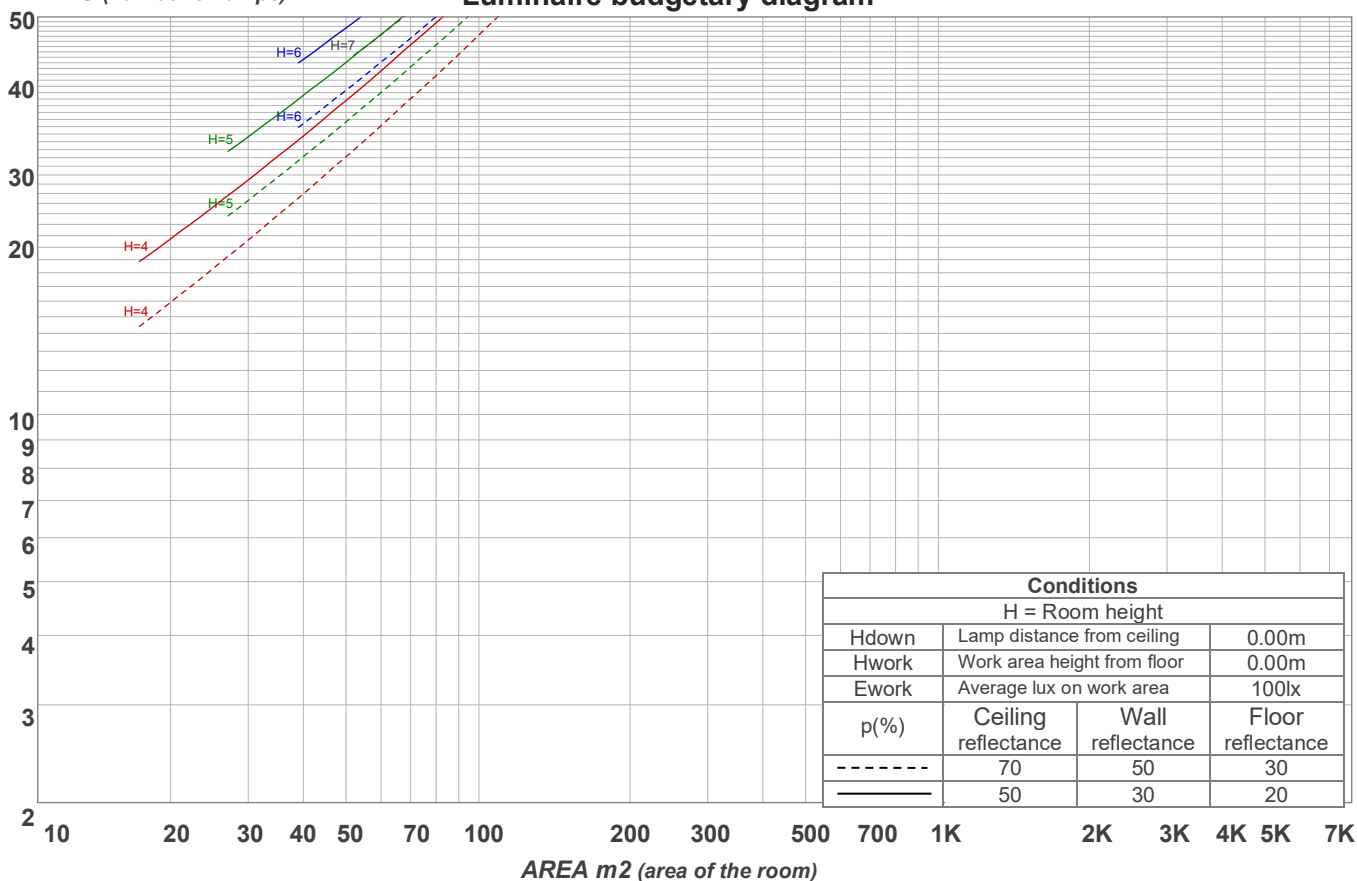
Viso Systems Aps – Copenhagen, Denmark – www.visosystems.com

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	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	106	101	96	91	103	98	93	89	92	89	85	87	84	82	83	80	78	76
2	96	87	80	74	93	85	78	73	80	75	70	76	72	68	72	68	65	63
3	88	77	68	61	85	75	67	60	71	64	59	67	62	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	56	50	60	54	49	57	52	47	45
5	74	61	52	45	71	59	51	44	57	49	43	54	47	42	51	46	41	39
6	68	55	46	39	66	54	45	39	51	44	38	49	42	37	47	41	36	34
7	63	50	41	35	61	49	40	34	47	39	34	45	38	33	43	37	32	30
8	59	45	37	31	57	44	36	31	43	35	30	41	34	30	39	33	29	27
9	55	42	33	28	53	41	33	28	39	32	27	38	31	27	36	31	26	24
10	52	38	31	25	50	38	30	25	36	29	25	35	29	24	34	28	24	22

LAMPS (number of lamps)

Luminaire budgetary diagram



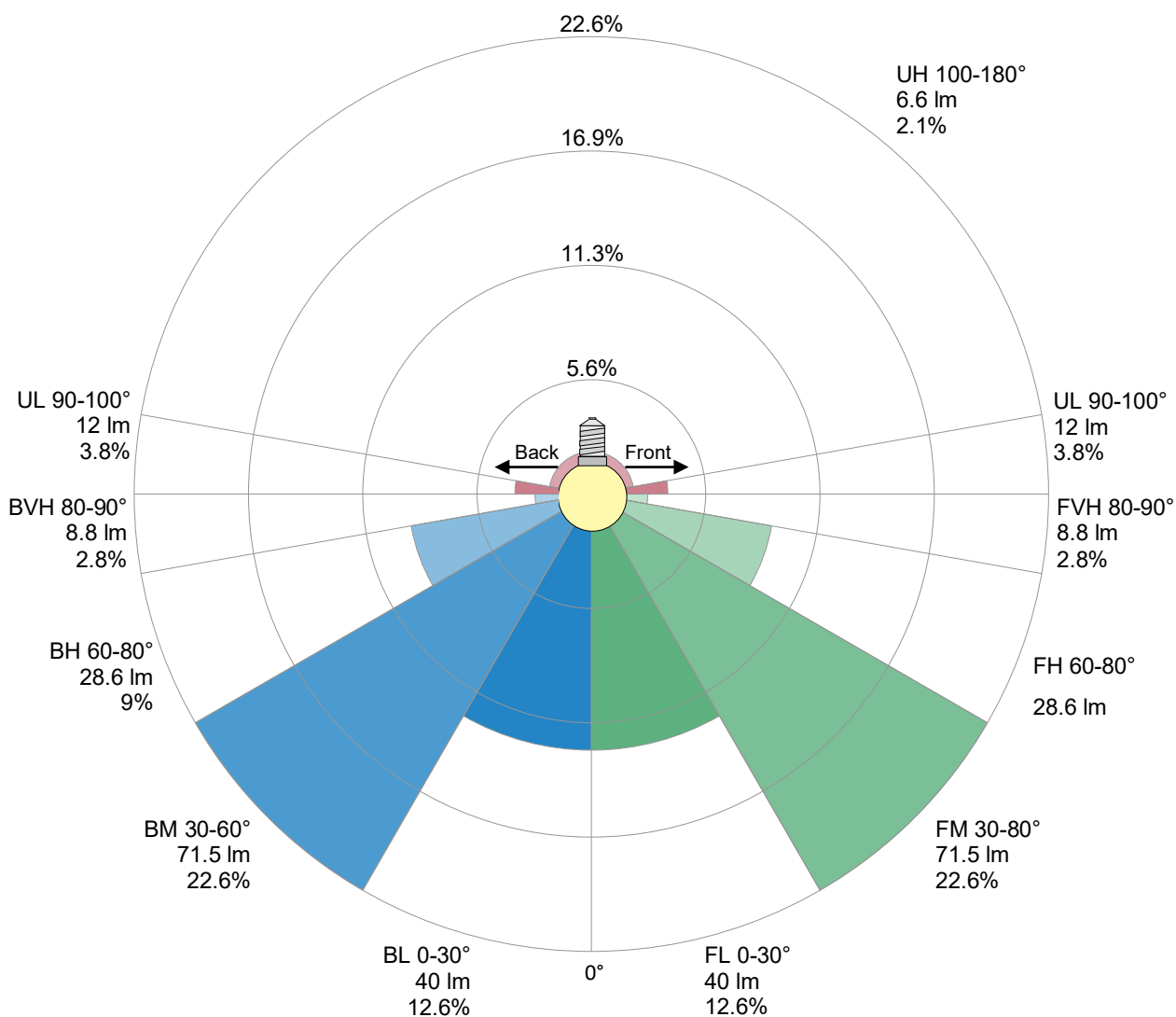
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	27.9 lm	42.5 lm	50.8 lm	50.2 lm	42.1 lm	32.6 lm	24.6 lm	17.6 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
12.0 lm	4.50 lm	0.717 lm	0.395 lm	0.317 lm	0.273 lm	0.222 lm	0.139 lm	0.050 lm

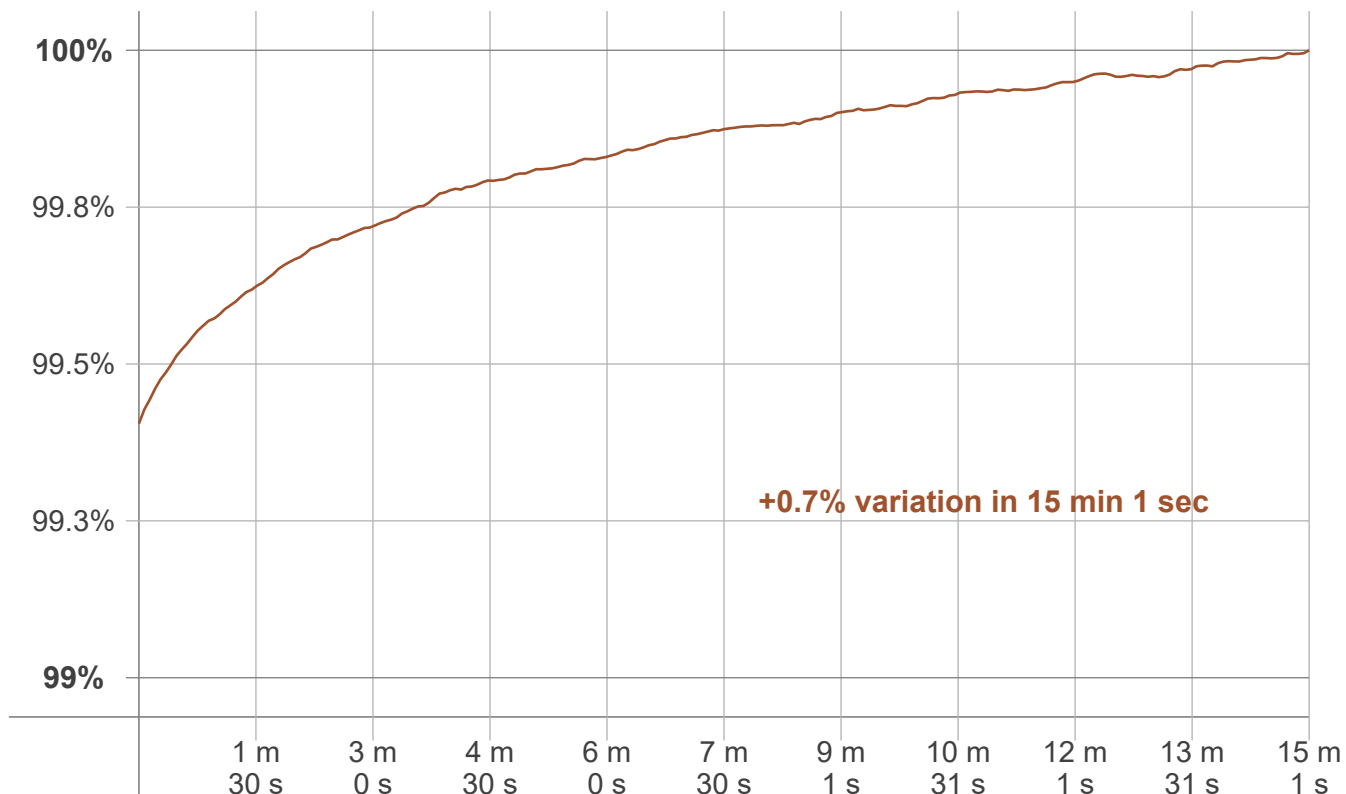
LCS table

BUG rating:	B0 U2 G0	
Forward light	Lumens	Lumens %
Low(0-30):	40	12.6%
Medium(30-60):	71.5	22.6%
High(60-80):	28.6	9%
Very high(80-90):	8.8	2.8%
Back light		
Low(0-30):	40	12.6%
Medium(30-60):	71.5	22.6%
High(60-80):	28.6	9%
Very high(80-90):	8.8	2.8%
Uplight		
Low(90-100):	12	3.8%
High(100-180):	6.6	2.1%

LCS graph



Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 1 sec
Warmup variation	+0.7%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2694 K	-7 K	2687 K

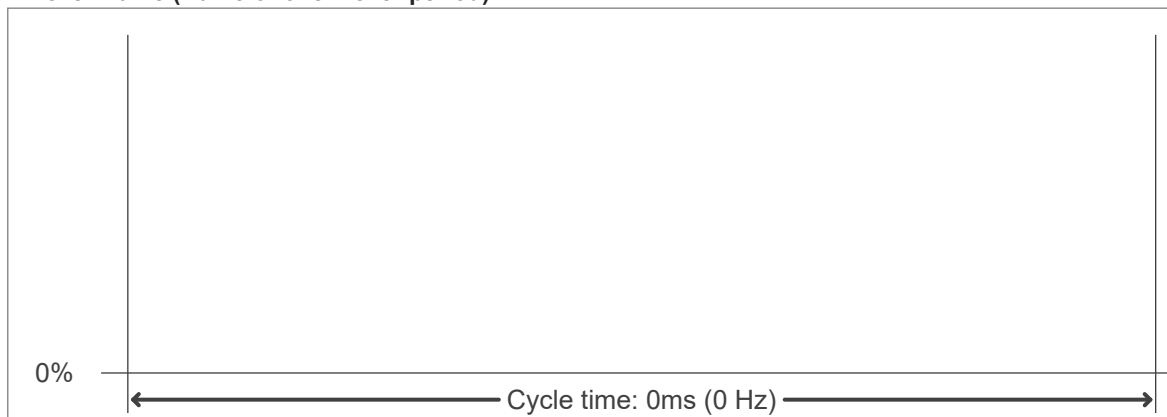
Output change

Output start	Output change	Output end
315 lm	+2 lm	317 lm

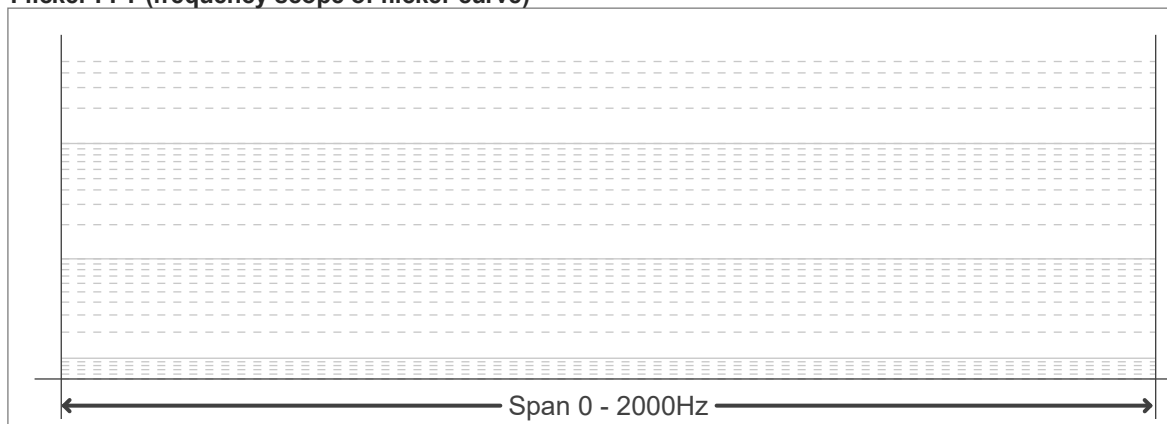
Flicker curve (complete sampled flicker signal)



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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