

Light efficiency:

79 Lumen/Watt

Light quality:

CRI: 82,4

Color temperature:

2400 K

Output: 303 lm

Peak: 35,2 cd

Power: 3,8 W

PF: 0,9



Tracking number: [VT240913-000306](#)

Product name:

272132

Item number:

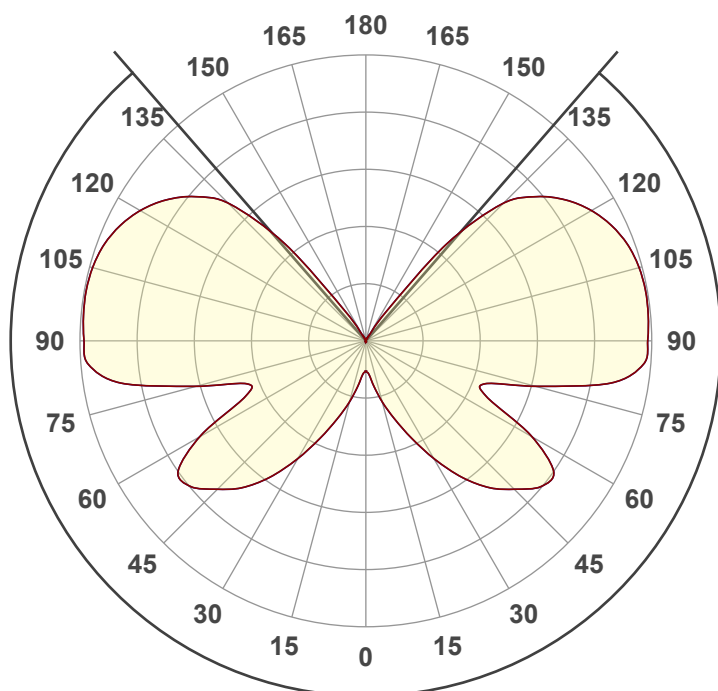
272132

Date and time:

13-9-2024 13:21:04

Description:

Leduxa PLAFONDLAMP SQUARE 4W



Beam angle

277,9°

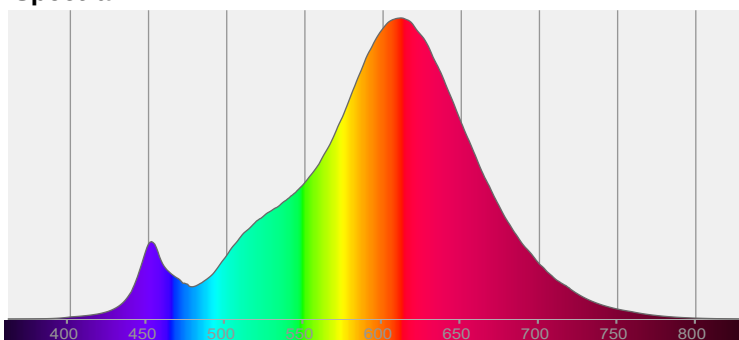


CIE 1931

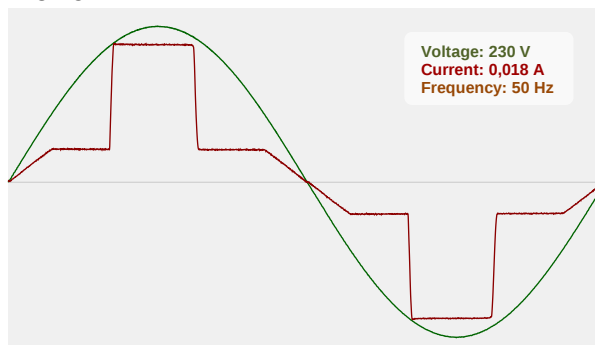
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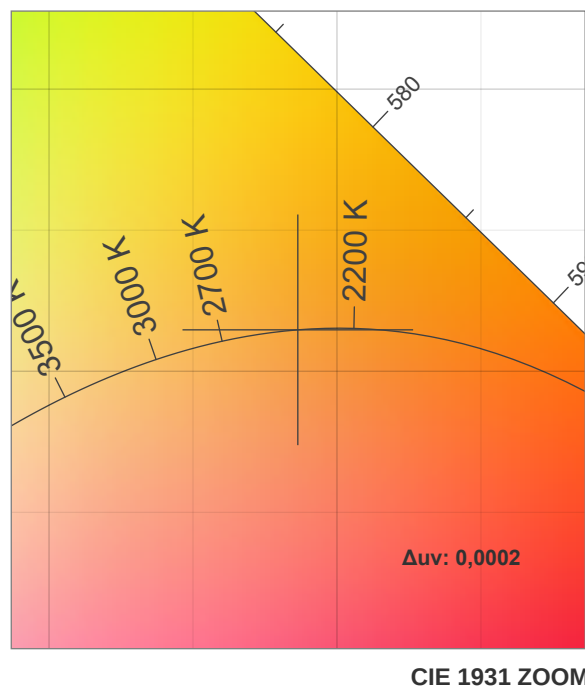
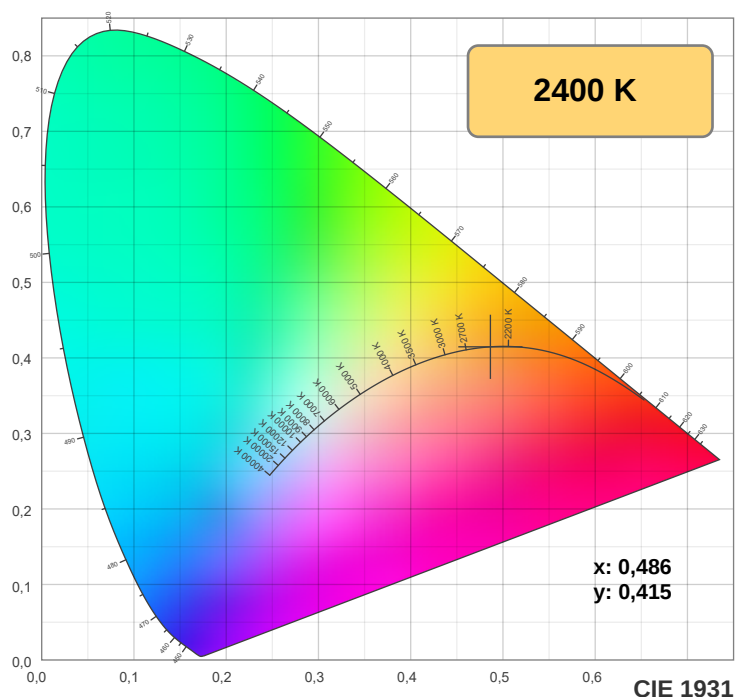
y: 0,415

Spectra

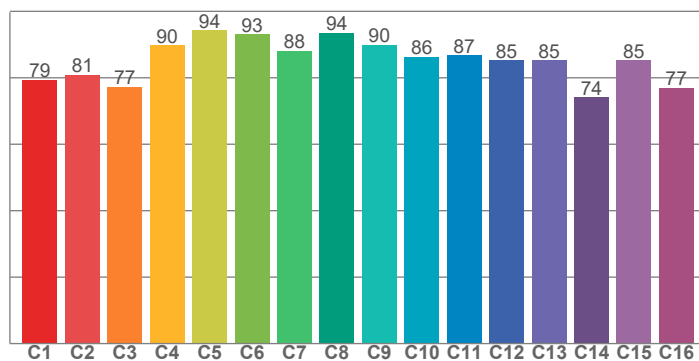


Power

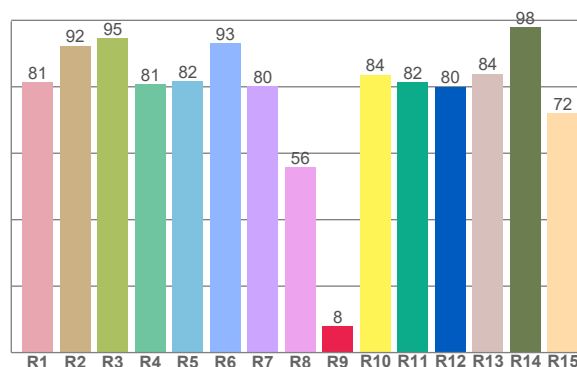




TM-30: 85,5



CRI: 82,4 (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
81,3	92,4	94,6	80,7	81,6	93,0	80,3	55,8	8,0	83,6	81,5	80,0	84,0	97,9	72,0

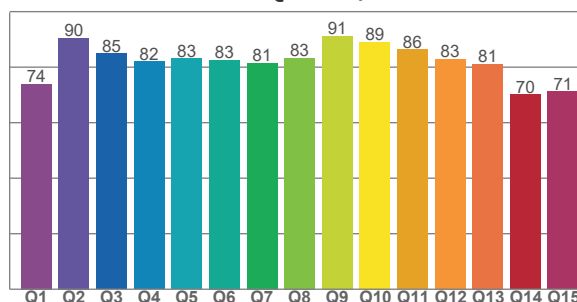
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,5	80,9	77,3	89,8	94,3	93,0	88,2	93,5	89,9	86,3	86,8	85,3	85,2	74,1	85,3	76,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,0	90,5	84,9	82,0	83,1	82,6	81,4	83,3	91,2	89,1	86,3	83,0	81,1	70,1	71,2

CQS: 80,9



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
2400 K	82,4	8,0	85,5	96,4	80,9	0,486	0,415	0,278	0,355	0,0002

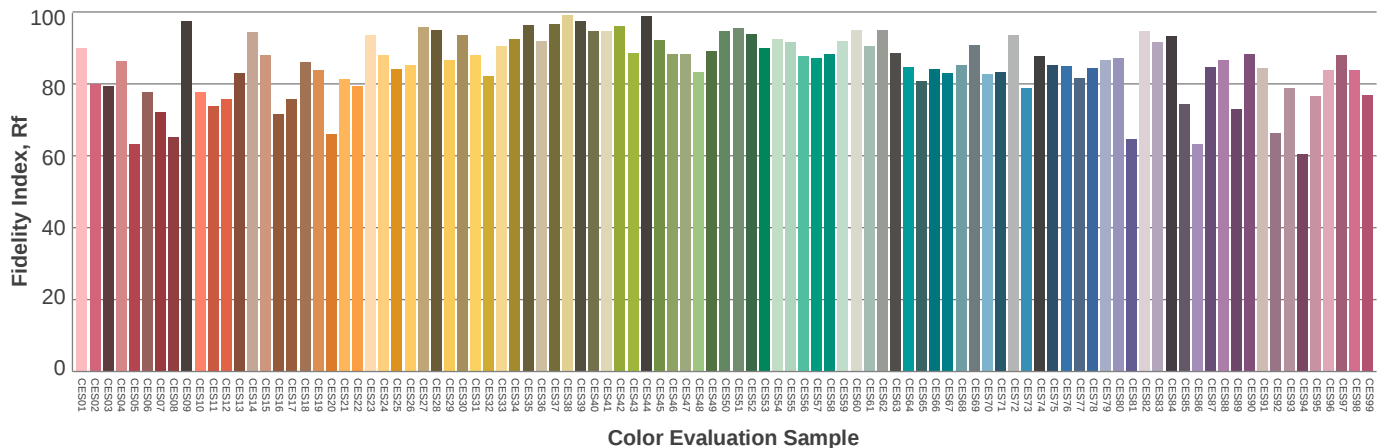
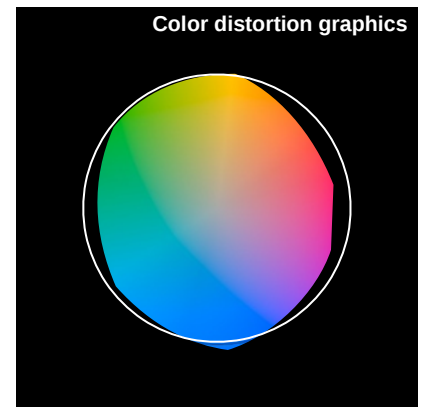
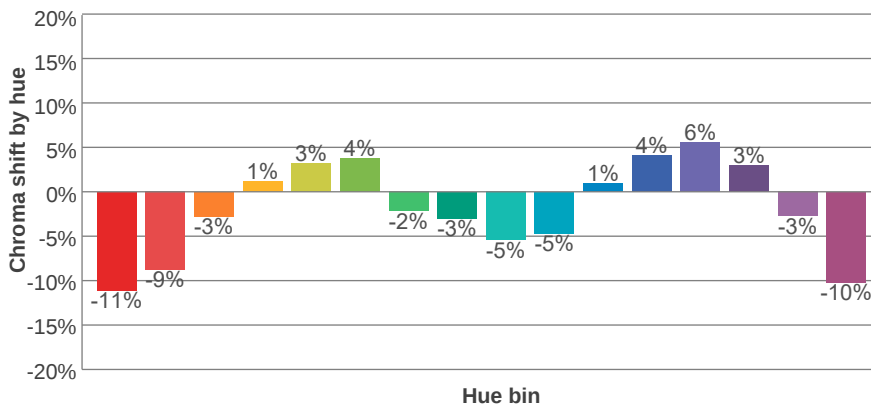
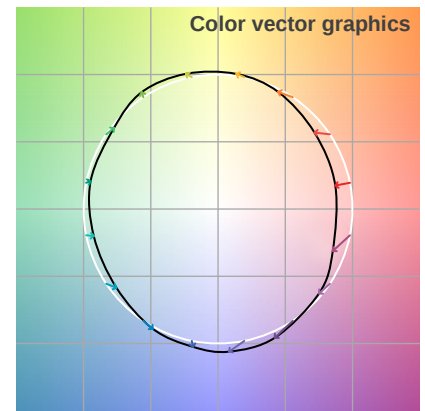
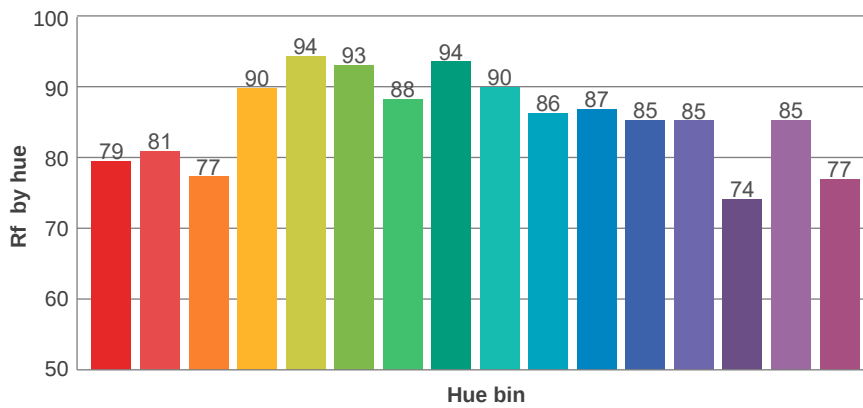
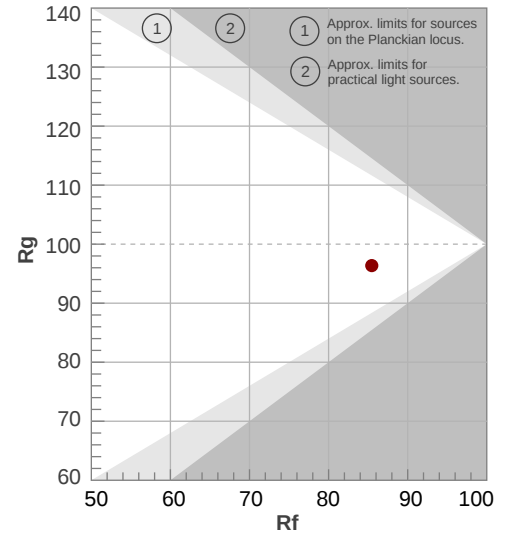
Rf 85,5

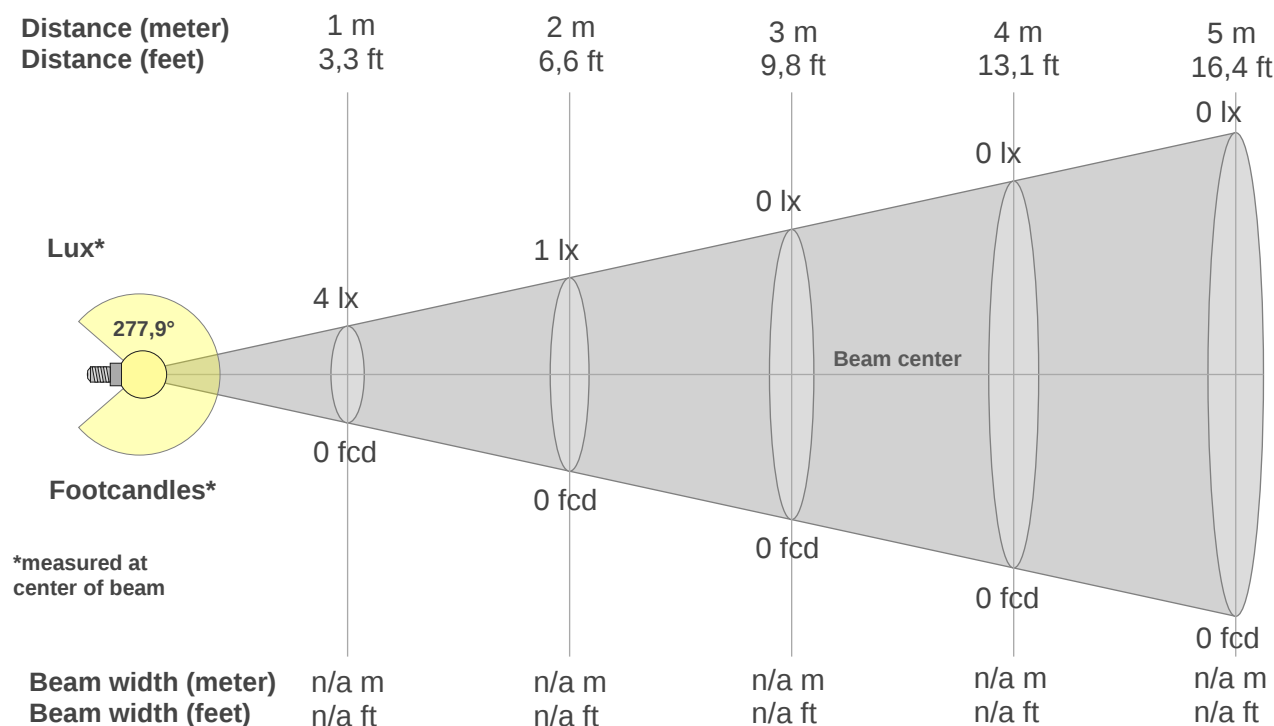
Fidelity index Rf

Rg 96,4

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	79	-11%	0%
2	81	-9%	7%
3	77	-3%	11%
4	90	1%	6%
5	94	3%	4%
6	93	4%	-1%
7	88	-2%	-7%
8	94	-3%	-2%
9	90	-5%	2%
10	86	-5%	7%
11	87	1%	9%
12	85	4%	2%
13	85	6%	-13%
14	74	3%	-18%
15	85	-3%	-10%
16	77	-10%	-14%





Beam intensities from 1-20m

[illegible]

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°
3,8	5,4	9,3	14,6	21,2	26,0	28,3	19,6	18,0	31,4	34,9	35,2	34,7	33,1	29,8	24,0	7,0	0,2	0,1	0,1
100%	142%	244%	386%	559%	685%	746%	516%	474%	827%	920%	928%	916%	873%	787%	633%	185%	4%	2%	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°
3,8	5,4	9,3	14,6	21,2	26,0	28,3	19,6	18,0	31,4	34,9	35,2	34,7	33,1	29,8	24,0	7,0	0,2	0,1	0,1
100%	142%	244%	386%	559%	685%	746%	516%	474%	827%	920%	928%	916%	873%	787%	633%	185%	4%	2%	1%

Intensities in 180° c-plane

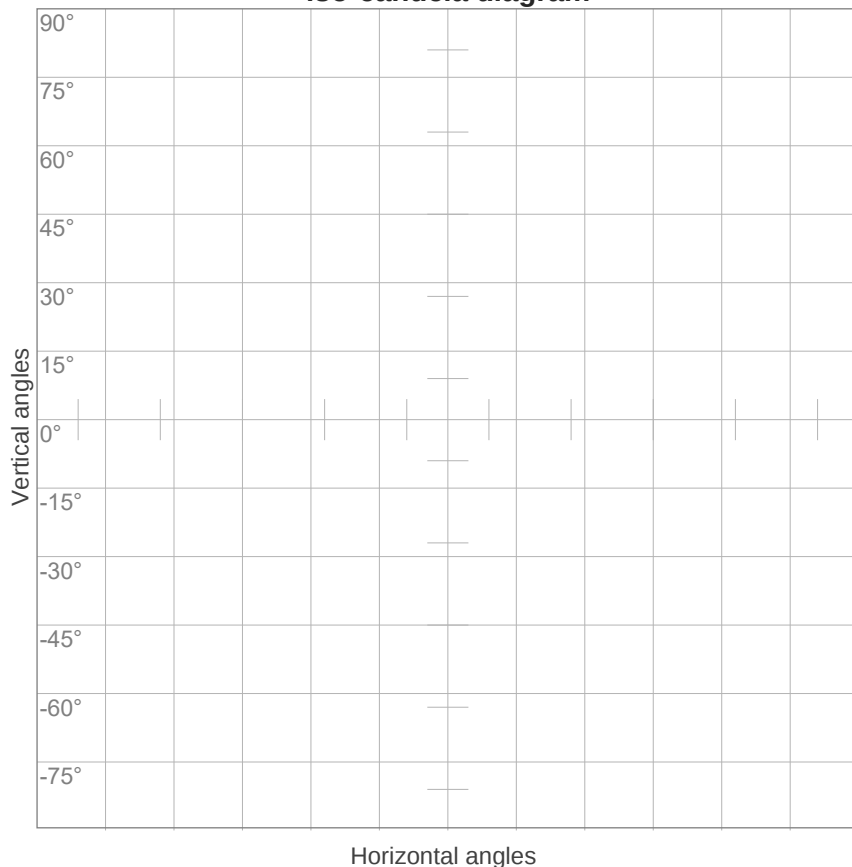
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
3,8	5,4	9,3	14,6	21,2	26,0	28,3	19,6	18,0	31,4	34,9	35,2	34,7	33,1	29,8	24,0	7,0	0,2	0,1	0,1
100%	142%	244%	386%	559%	685%	746%	516%	474%	827%	920%	928%	916%	873%	787%	633%	185%	4%	2%	1%

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°
3,8	5,4	9,3	14,6	21,2	26,0	28,3	19,6	18,0	31,4	34,9	35,2	34,7	33,1	29,8	24,0	7,0	0,2	0,1	0,1
100%	142%	244%	386%	559%	685%	746%	516%	474%	827%	920%	928%	916%	873%	787%	633%	185%	4%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
277,9°	292,4°	298,6°	22,0%	10,3%

iso-candela diagram



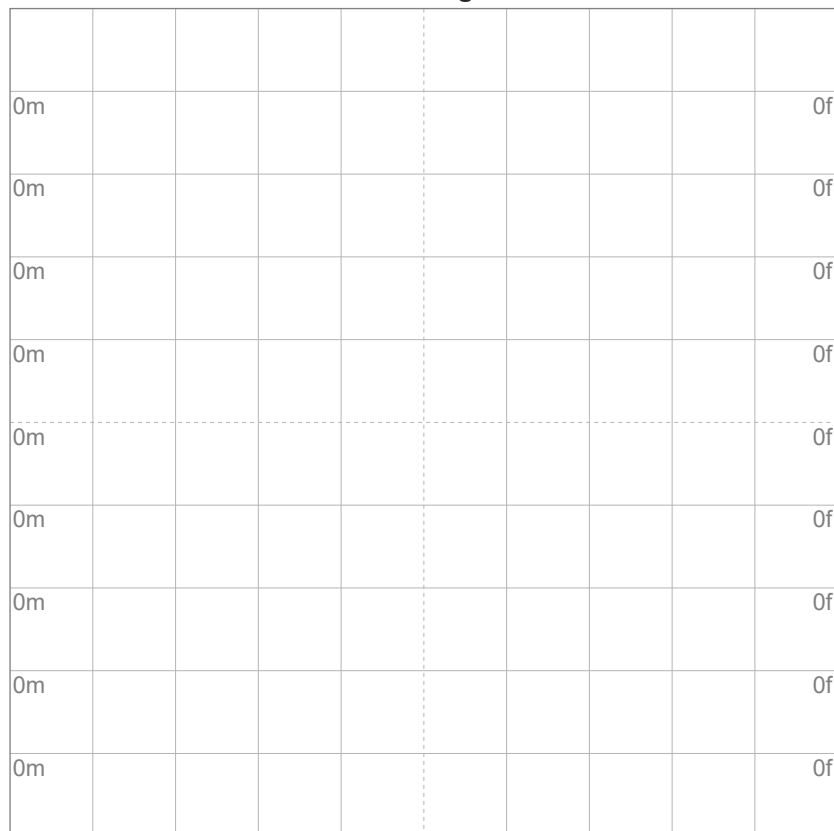
10%	0 cd
20%	1 cd
30%	1 cd
40%	2 cd
50%	2 cd
60%	2 cd
70%	3 cd
80%	3 cd
90%	3 cd

Conditions:

Number of c-planes: 72

Candela at center: 4 cd

iso-lux diagram



3%	1,14m lx
5%	1,90m lx
10%	3,79m lx
30%	11,4m lx
50%	19,0m lx

Conditions:

Number of c-planes: 72

Lux at center: 37,9m lx

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

Mounting height: 10 meters (33 feet)

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 303 lm total luminous flux										

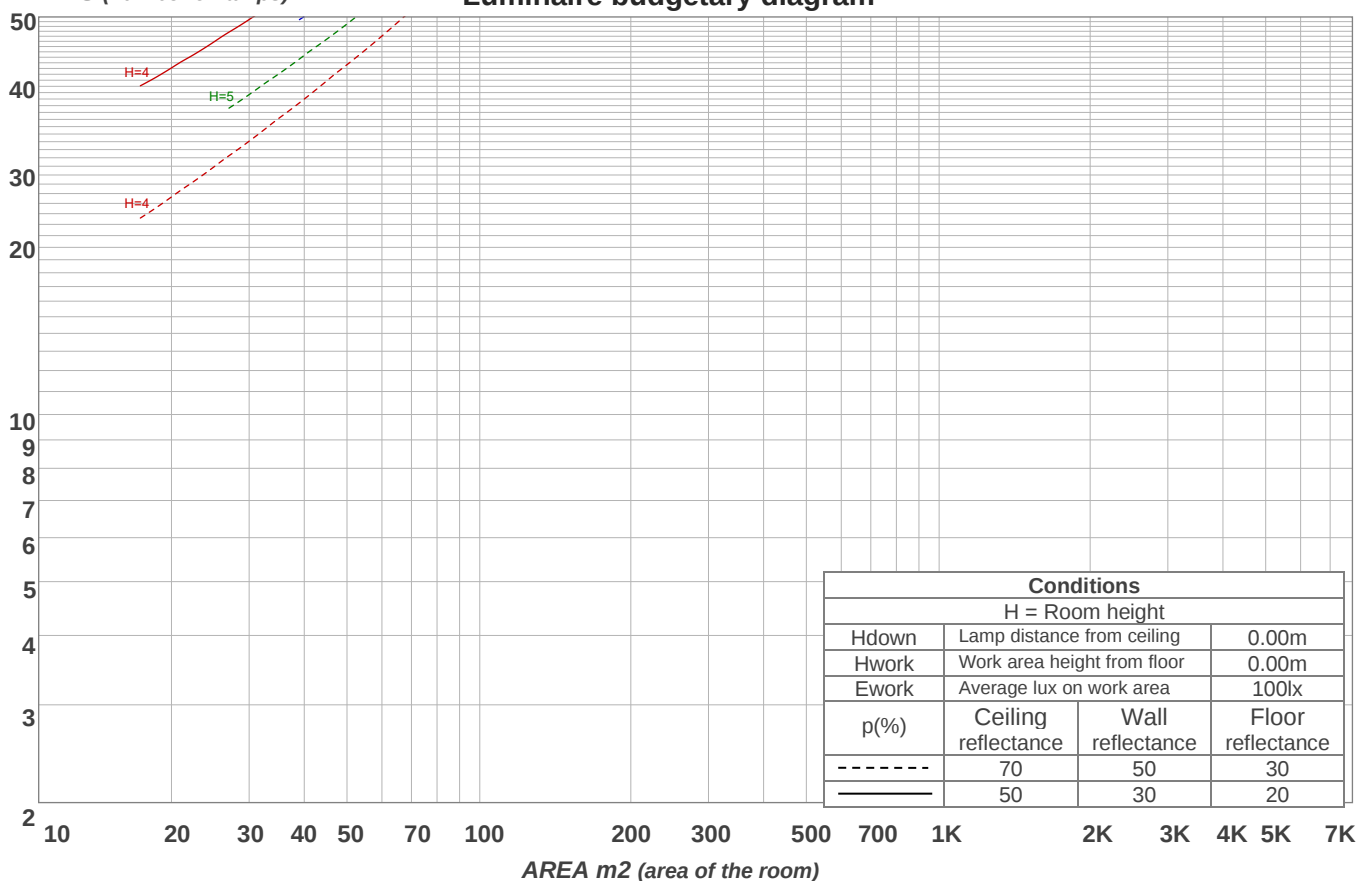
Viso Systems Aps – Copenhagen, Denmark – www.visosystems.com

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	92	85	79	74	84	78	73	68	64	60	56	51	48	45	39	37	35	29
2	82	72	64	57	74	66	58	52	53	48	43	42	38	34	32	29	26	21
3	74	62	53	45	67	56	48	42	46	39	34	36	31	27	27	23	20	16
4	67	54	44	37	60	49	41	34	40	33	28	31	26	22	23	20	16	12
5	61	47	38	31	55	43	35	28	35	28	23	28	22	18	21	17	13	10
6	56	42	33	26	50	38	30	24	31	24	20	24	19	15	18	14	11	8
7	51	37	28	22	46	34	26	20	28	21	17	22	17	13	16	12	9	7
8	47	34	25	19	43	31	23	17	25	19	14	20	15	11	15	11	8	6
9	44	30	22	17	40	28	20	15	23	17	12	18	13	10	14	10	7	5
10	41	28	20	15	37	25	18	13	21	15	11	16	12	8	12	9	6	4

LAMPS (number of lamps)

Luminaire budgetary diagram



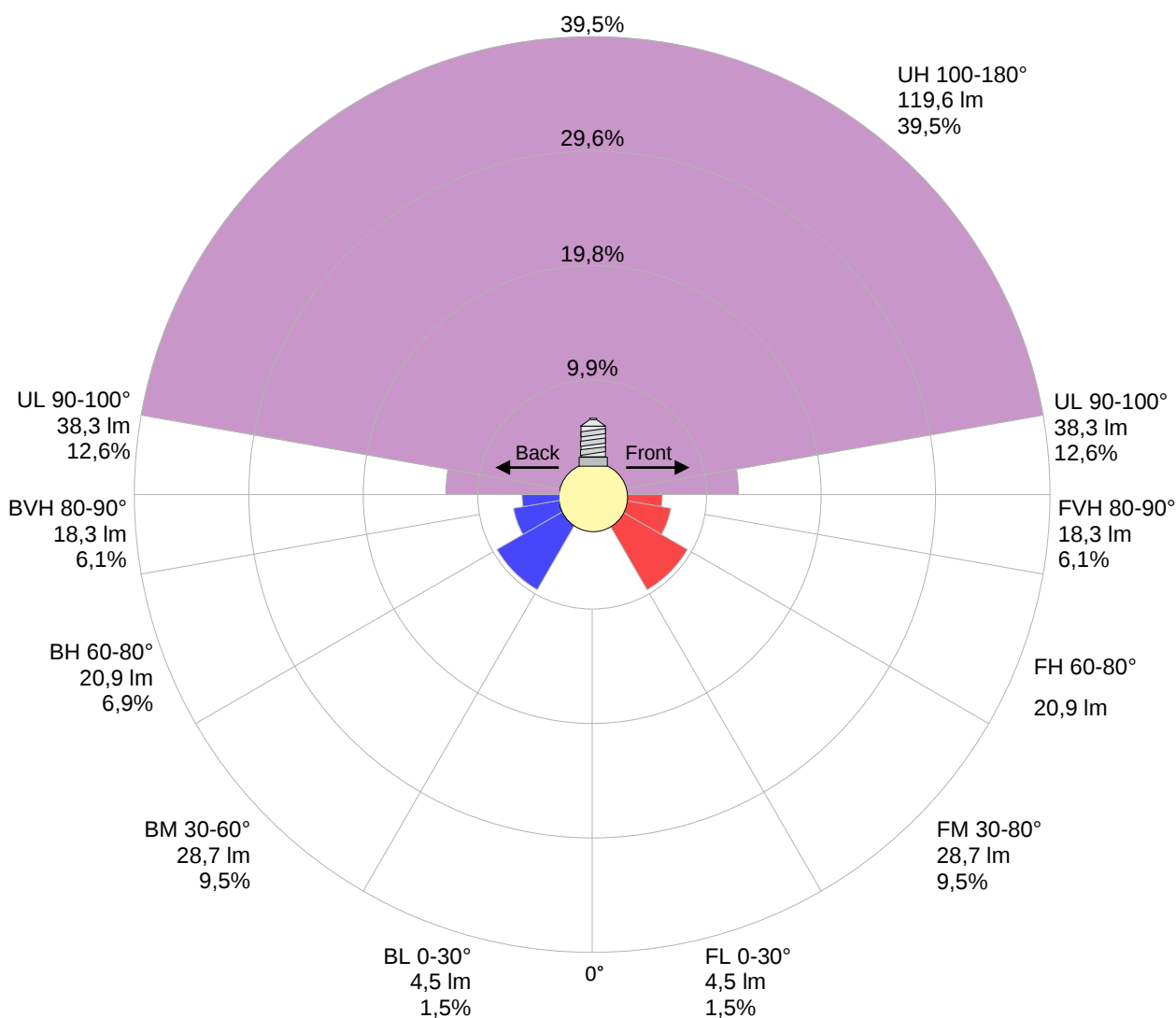
Zonal Lumen Summary

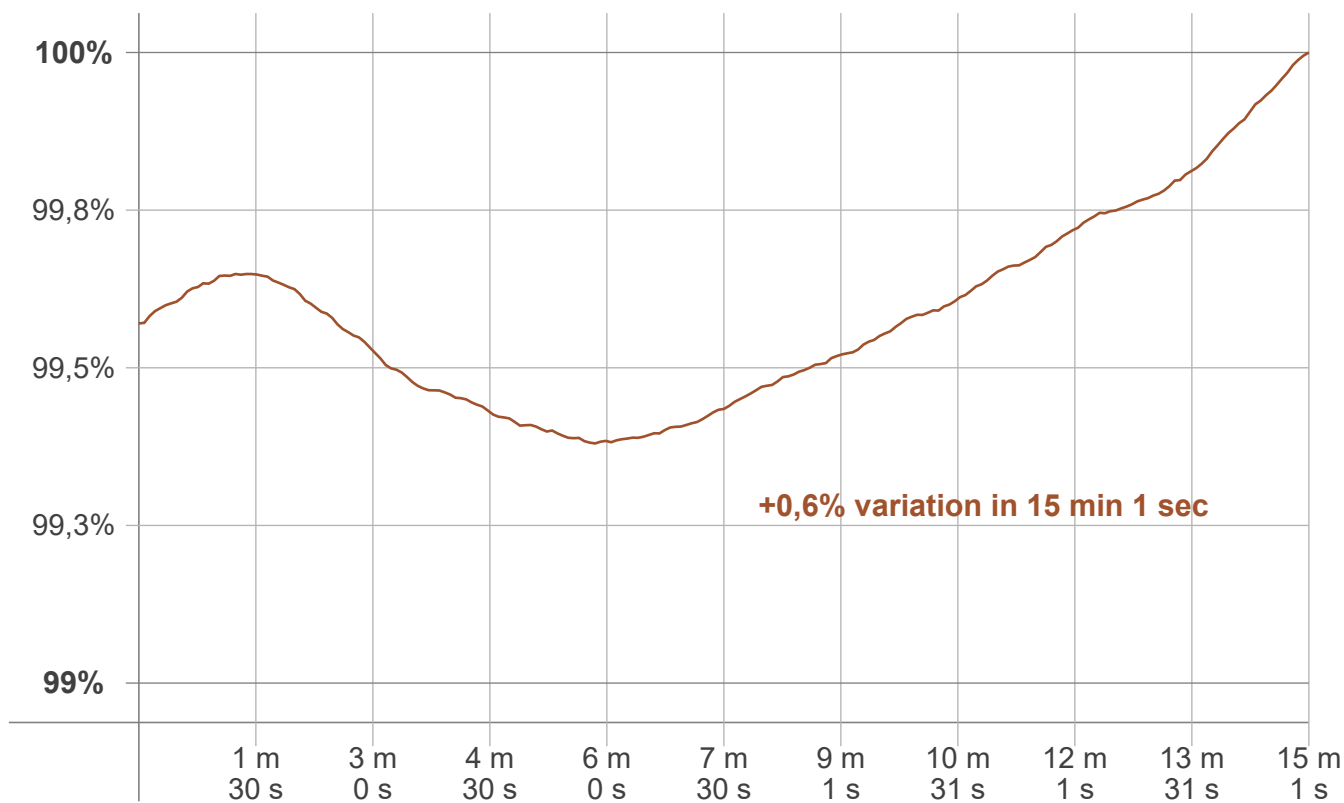
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	2,31 lm	6,29 lm	12,9 lm	20,2 lm	24,3 lm	18,0 lm	23,7 lm	36,6 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
38,3 lm	37,0 lm	33,3 lm	27,1 lm	17,9 lm	4,25 lm	0,064 lm	0,019 lm	0,005 lm

LCS table

BUG rating:	B0 U3 G1	
Forward light	Lumens	Lumens %
Low(0-30):	4,5	1,5%
Medium(30-60):	28,7	9,5%
High(60-80):	20,9	6,9%
Very high(80-90):	18,3	6,1%
Back light		
Low(0-30):	4,5	1,5%
Medium(30-60):	28,7	9,5%
High(60-80):	20,9	6,9%
Very high(80-90):	18,3	6,1%
Uplight		
Low(90-100):	38,3	12,6%
High(100-180):	119,6	39,5%

LCS graph



Warmup curve

Warmup result

Warmup time:	Lamp stabilized in 15 min 1 sec
Warmup variation	+0,6%

Warmup conditions

Stable period:	15 min
Stable change max:	2,0%
Minimum time:	15 min

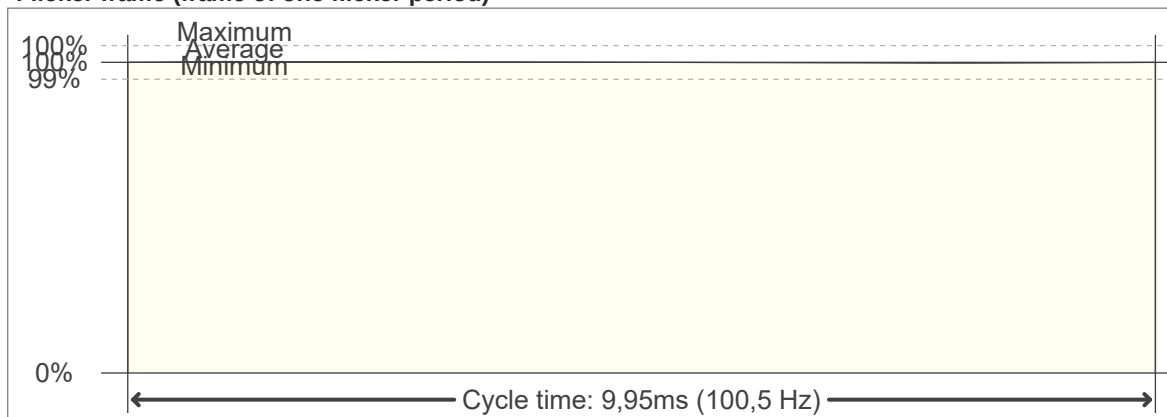
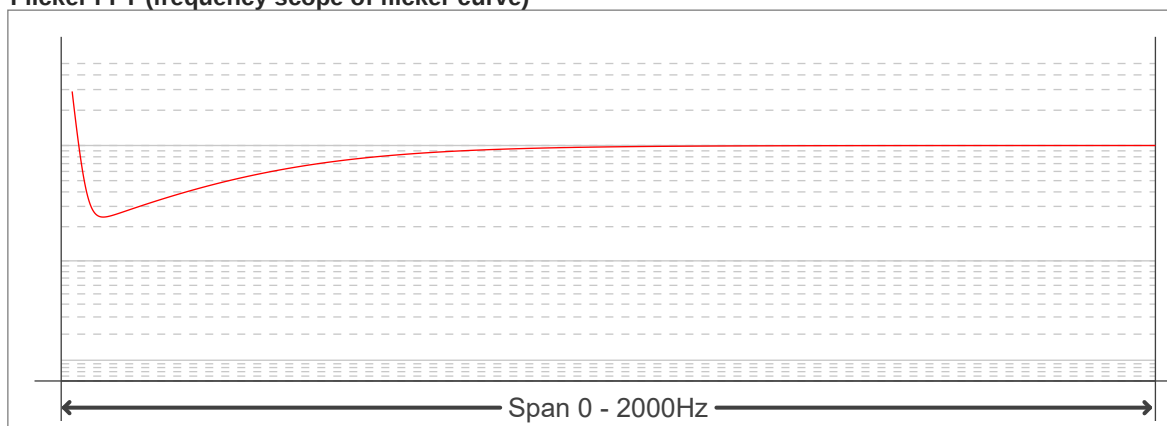
Color temperature change

CCT start	CCT change	CCT end
2398 K	+2 K	2400 K

Output change

Output start	Output change	Output end
302 lm	+1 lm	303 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:		100,5 Hz	
Flicker index:	0	JA8/10 40Hz	0,01 %
Flicker percentage:	0,28 %	JA8/10 90Hz	0,01 %
SVM: (Visual flicker)	0,01	JA8/10 200Hz	0,25 %
PstLM	0,01	JA8/10 400Hz	0,27 %
Mp	0	JA8/10 1000Hz	0,28 %

Flicker conditions:

Sample rate:	20000 samples/second
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