

Light efficiency:

134 Lumen/Watt

Light quality:

CRI: 83,8

Color temperature:

4000 K

Output: 6571 lm

Peak: 1825 cd

Power: 49,0 W

PF: 0,99



Tracking number: [VT240925-004364](#)

Product name:

271647-4000K

Item number:

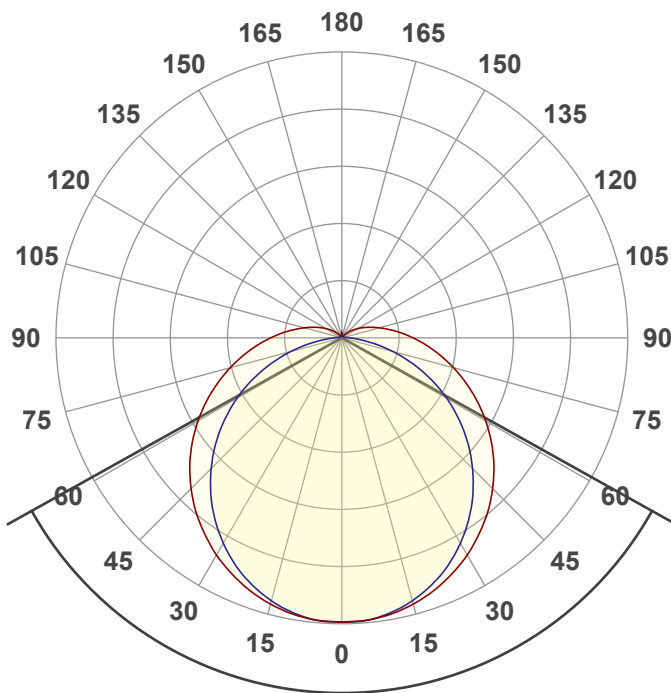
271647-4000K

Date and time:

25-9-2024 16:21:50

Description:

**LED BATTEN TELESTO 150CM 50W
(OSRAM DRIVER)**



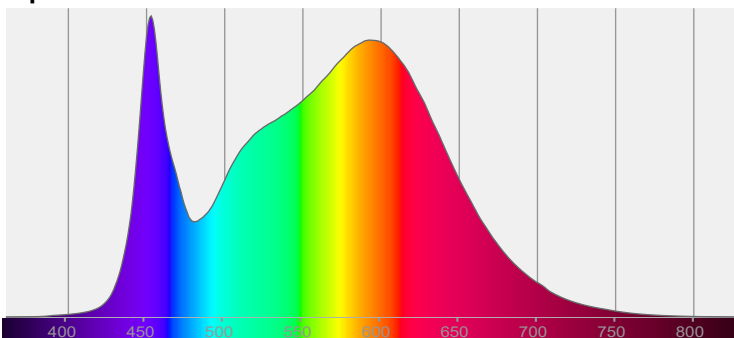
Beam angle

121,7°

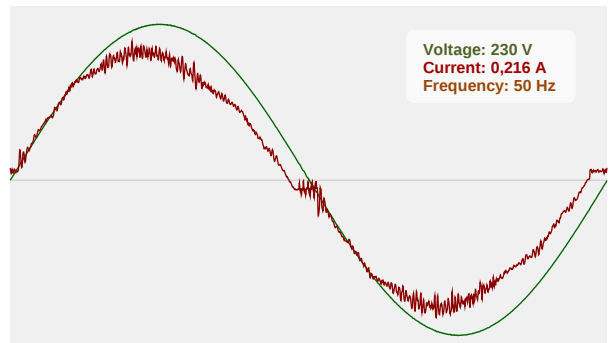


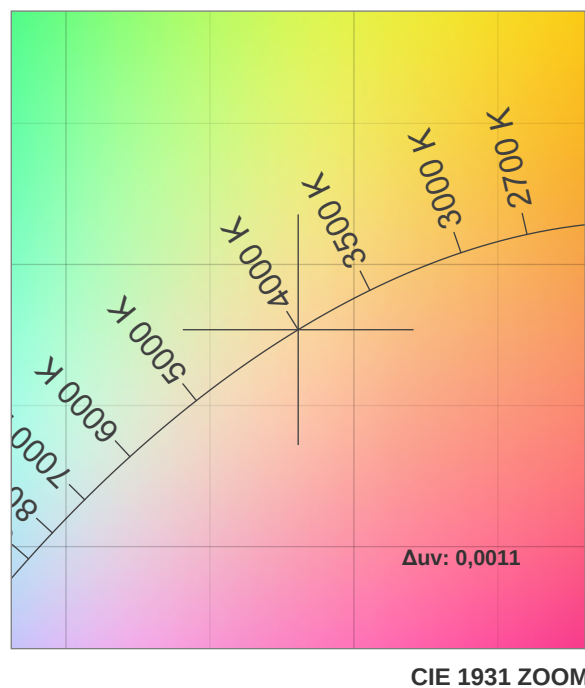
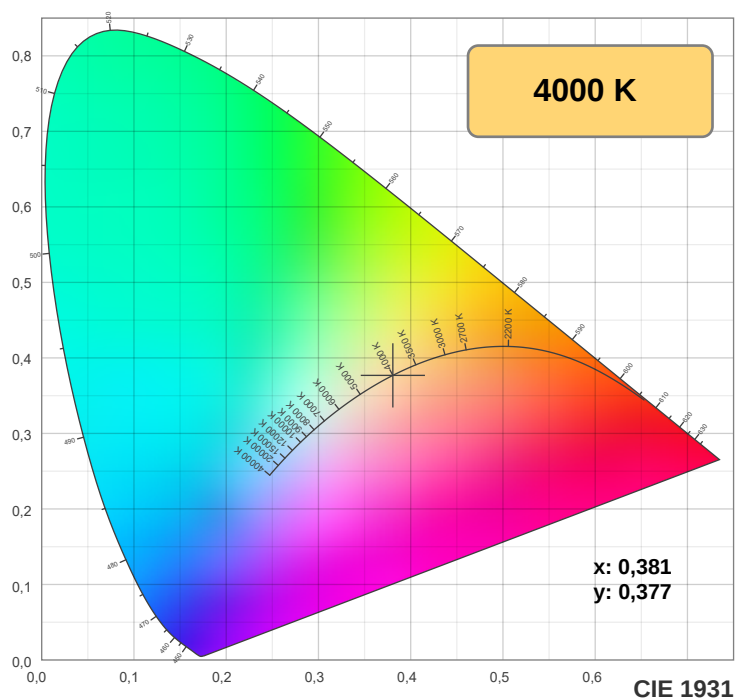
CIE 1931
x: 0,381
y: 0,377

Spectra

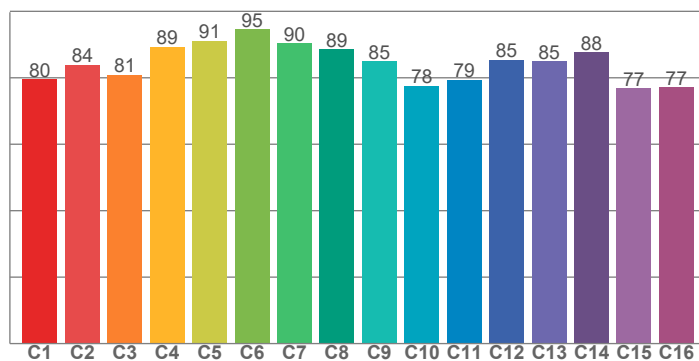


Power

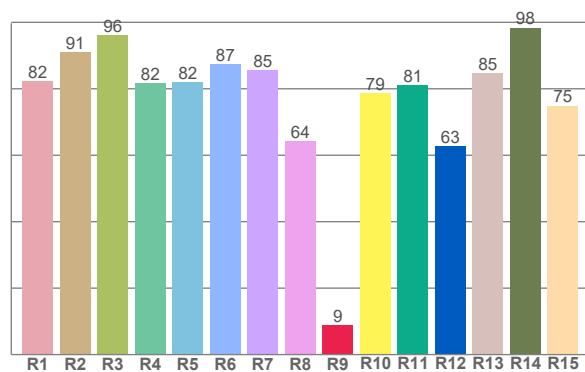




TM-30: 84,4



CRI: 83,8 (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
82,2	91,1	96,2	81,8	82,1	87,4	85,5	64,1	8,9	78,8	81,1	62,7	84,8	98,4	74,9

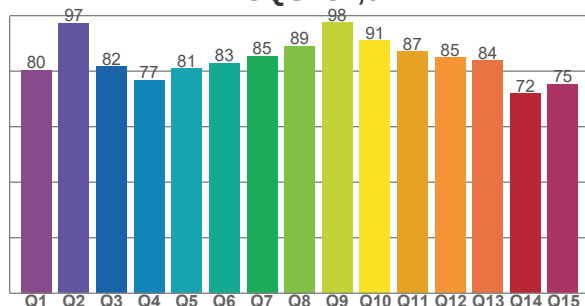
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,6	83,9	80,9	89,3	91,2	94,6	90,3	88,5	85,0	77,5	79,4	85,4	85,0	87,6	76,9	77,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80,5	97,3	81,6	76,9	81,0	82,9	85,4	89,1	97,5	91,0	87,0	84,9	83,8	72,0	75,3

CQS: 82,9



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
4000 K	83,8	8,9	84,4	94,0	82,9	0,381	0,377	0,225	0,334	0,0011

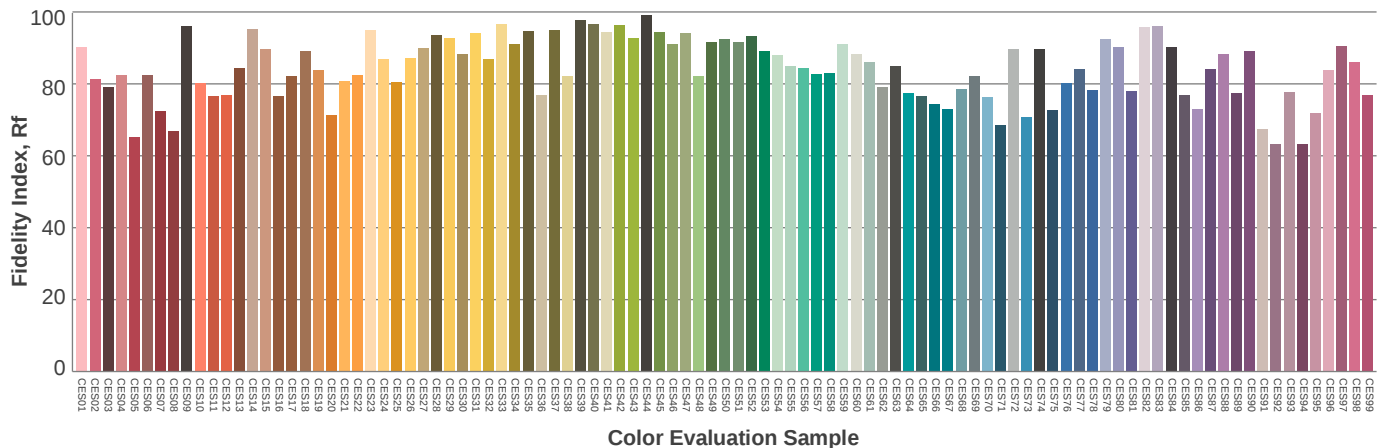
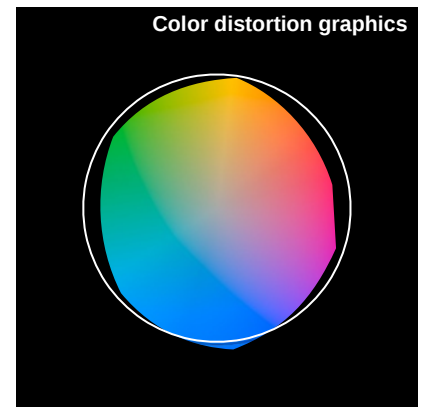
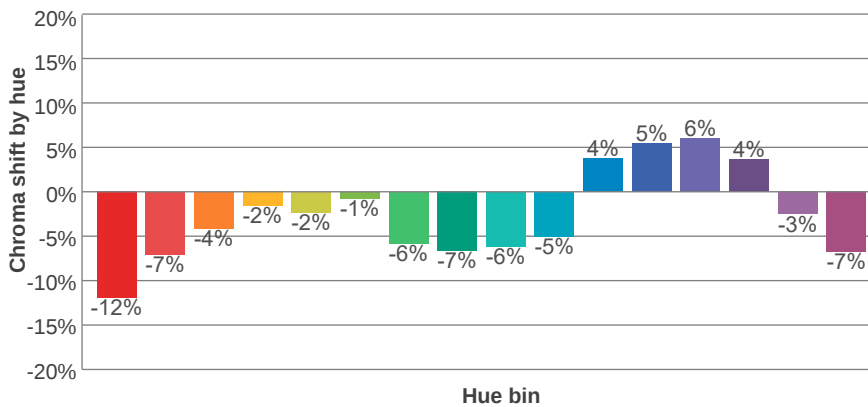
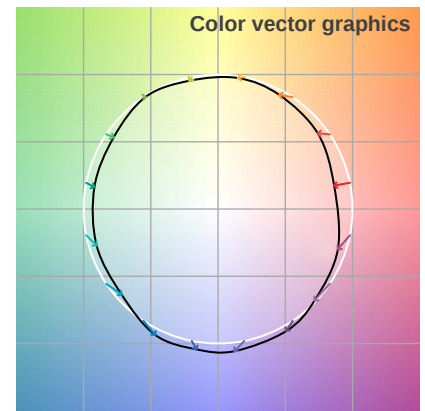
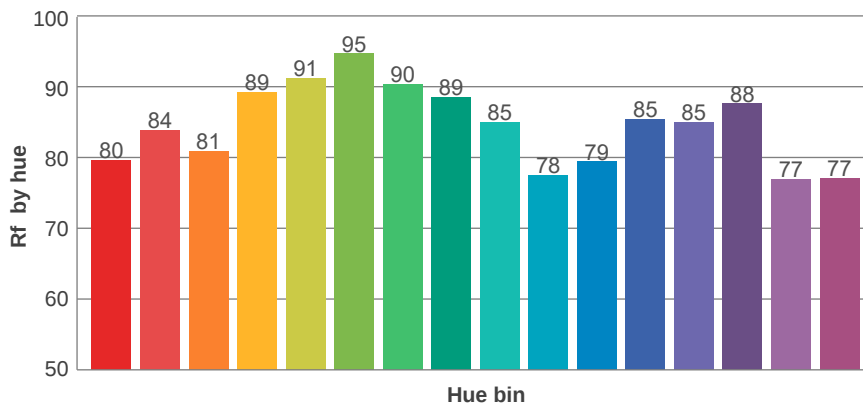
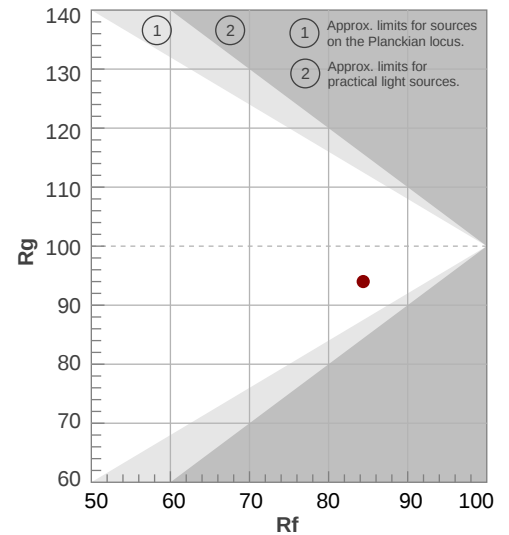
Rf 84,4

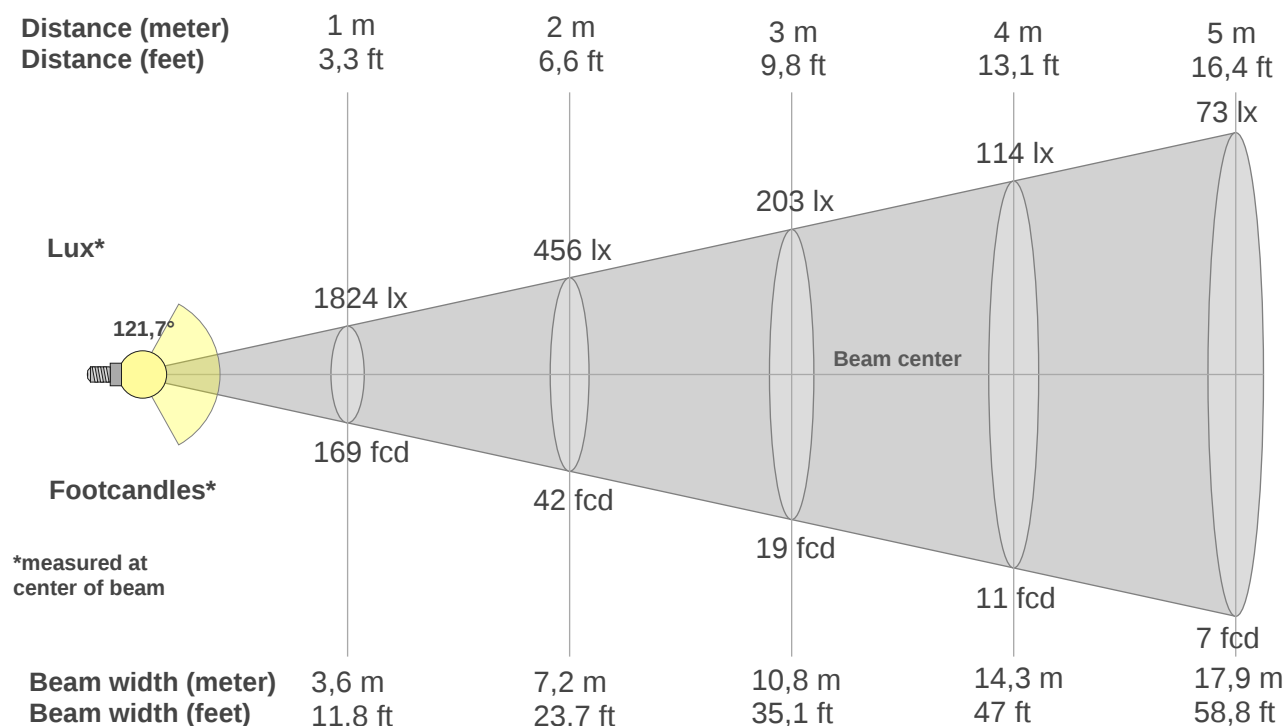
Fidelity index Rf

Rg 94,0

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	80	-12%	0%
2	84	-7%	6%
3	81	-4%	9%
4	89	-2%	5%
5	91	-2%	2%
6	95	-1%	-2%
7	90	-6%	-1%
8	89	-7%	2%
9	85	-6%	9%
10	78	-5%	13%
11	79	4%	13%
12	85	5%	4%
13	85	6%	-9%
14	88	4%	-8%
15	77	-3%	-17%
16	77	-7%	-12%




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
1824lx	456lx	203lx	114lx	73lx	51lx	37lx	28lx	23lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
169,4fc	42,4fcd	18,8fcd	10,6fcd	6,8fcd	4,7fcd	3,5fcd	2,6fcd	2,1fcd	1,7fcd	1,4fcd	1,2fcd	1fcd	0,9fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd

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°
1824	1801	1740	1643	1517	1365	1190	999	804	620	456	321	218	141	82	40	15	14	13	14
100%	99%	95%	90%	83%	75%	65%	55%	44%	34%	25%	18%	12%	8%	5%	2%	1%	1%	1%	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°
1824	1794	1708	1573	1395	1183	946	690	425	188	50	20	15	13	12	12	13	13	12	13
100%	98%	94%	86%	76%	65%	52%	38%	23%	10%	3%	1%	1%	1%	1%	1%	1%	1%	1%	1%

Intensities in 180° c-plane

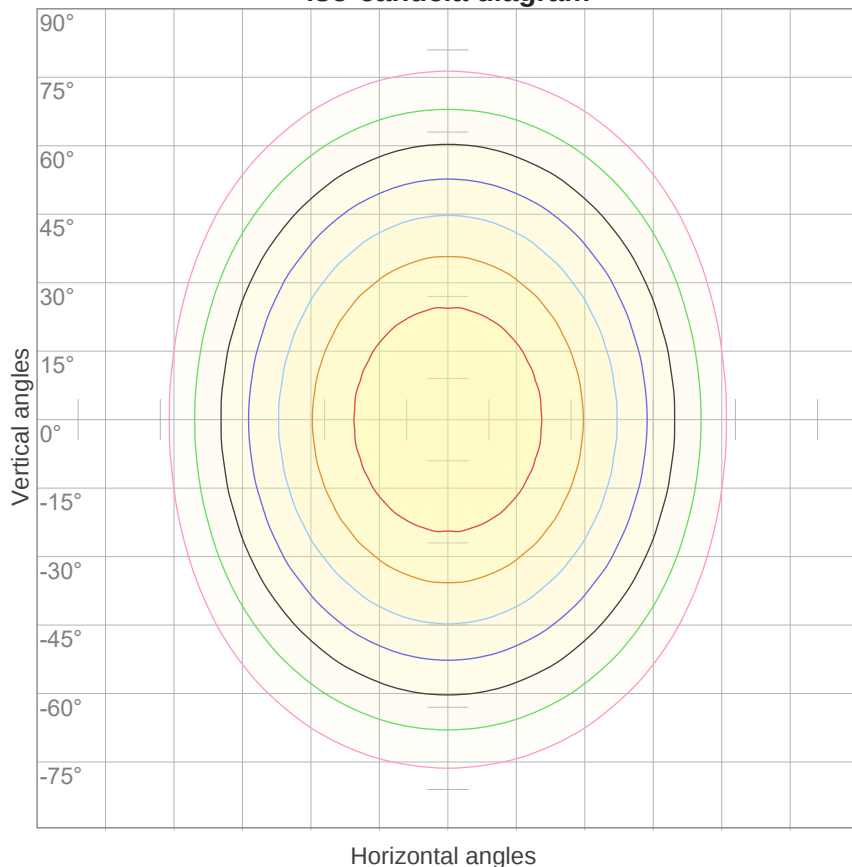
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
1824	1801	1740	1643	1517	1365	1190	999	804	620	456	321	218	141	82	40	15	14	13	14
100%	99%	95%	90%	83%	75%	65%	55%	44%	34%	25%	18%	12%	8%	5%	2%	1%	1%	1%	1%

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°
1824	1794	1708	1573	1395	1183	946	690	425	188	50	20	15	13	12	12	13	13	12	13
100%	98%	94%	86%	76%	65%	52%	38%	23%	10%	3%	1%	1%	1%	1%	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
121,7°	195,8°	235,5°	64,9%	43,2%

iso-candela diagram



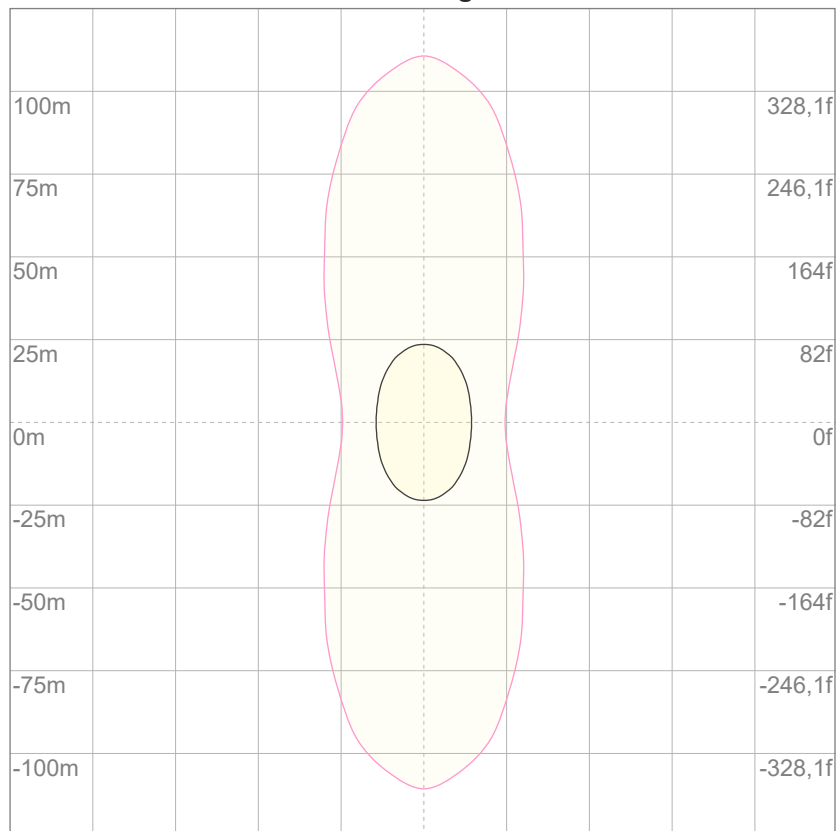
10%	182 cd
20%	365 cd
30%	547 cd
40%	729 cd
50%	912 cd
60%	1094 cd
70%	1277 cd
80%	1459 cd
90%	1641 cd

Conditions:

Number of c-planes: 60

Candela at center: 1824 cd

iso-lux diagram



3%	0,547 lx
5%	0,912 lx
10%	1,82 lx
30%	5,47 lx
50%	9,12 lx

Conditions:

Number of c-planes: 60

Lux at center: 18,2 lx

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

Glare evaluation according to UGR

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 6571 lm total luminous flux										

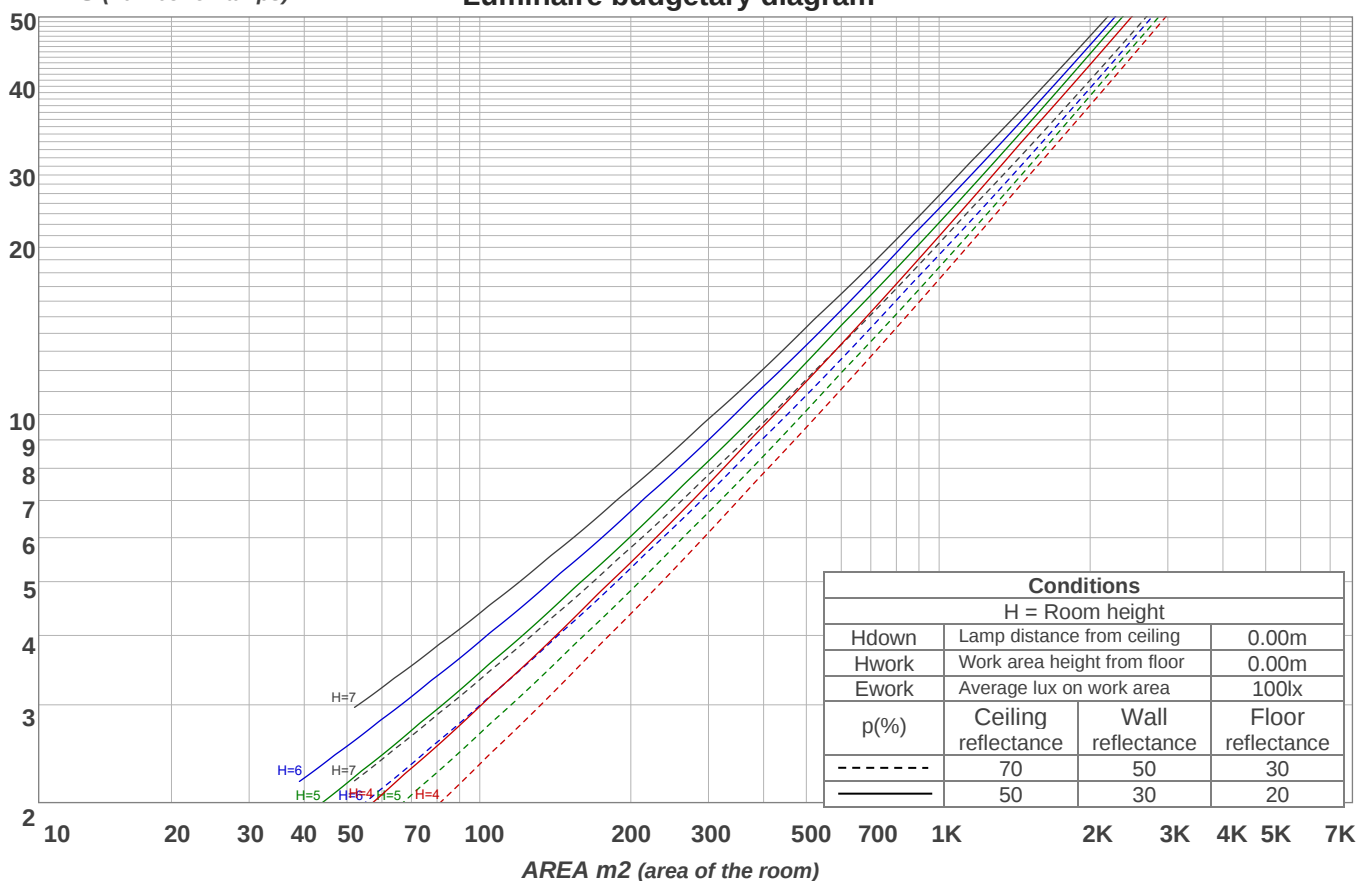
UGR data could not be calculated due to missing dimensions. Goto Edit->Photometric->Dimensions and set the fixture/lamp dimensions.

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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	95	95	95	92
1	105	99	94	89	101	96	91	87	90	86	83	85	82	79	80	77	75	72
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	59
3	86	74	65	58	82	72	64	57	68	61	55	64	58	53	60	55	51	49
4	78	65	56	49	75	64	55	48	60	52	47	57	50	45	53	48	44	41
5	72	58	49	42	69	57	48	41	54	46	40	51	44	39	48	42	38	35
6	66	52	43	36	64	51	42	36	48	41	35	46	39	34	43	37	33	31
7	61	47	38	32	59	46	38	31	44	36	31	42	35	30	40	34	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	31	27	36	30	26	24
9	53	39	31	25	51	38	31	25	37	30	24	35	29	24	33	28	23	21
10	50	36	28	23	48	35	28	23	34	27	22	32	26	22	31	25	21	19

LAMPS (number of lamps)

Luminaire budgetary diagram



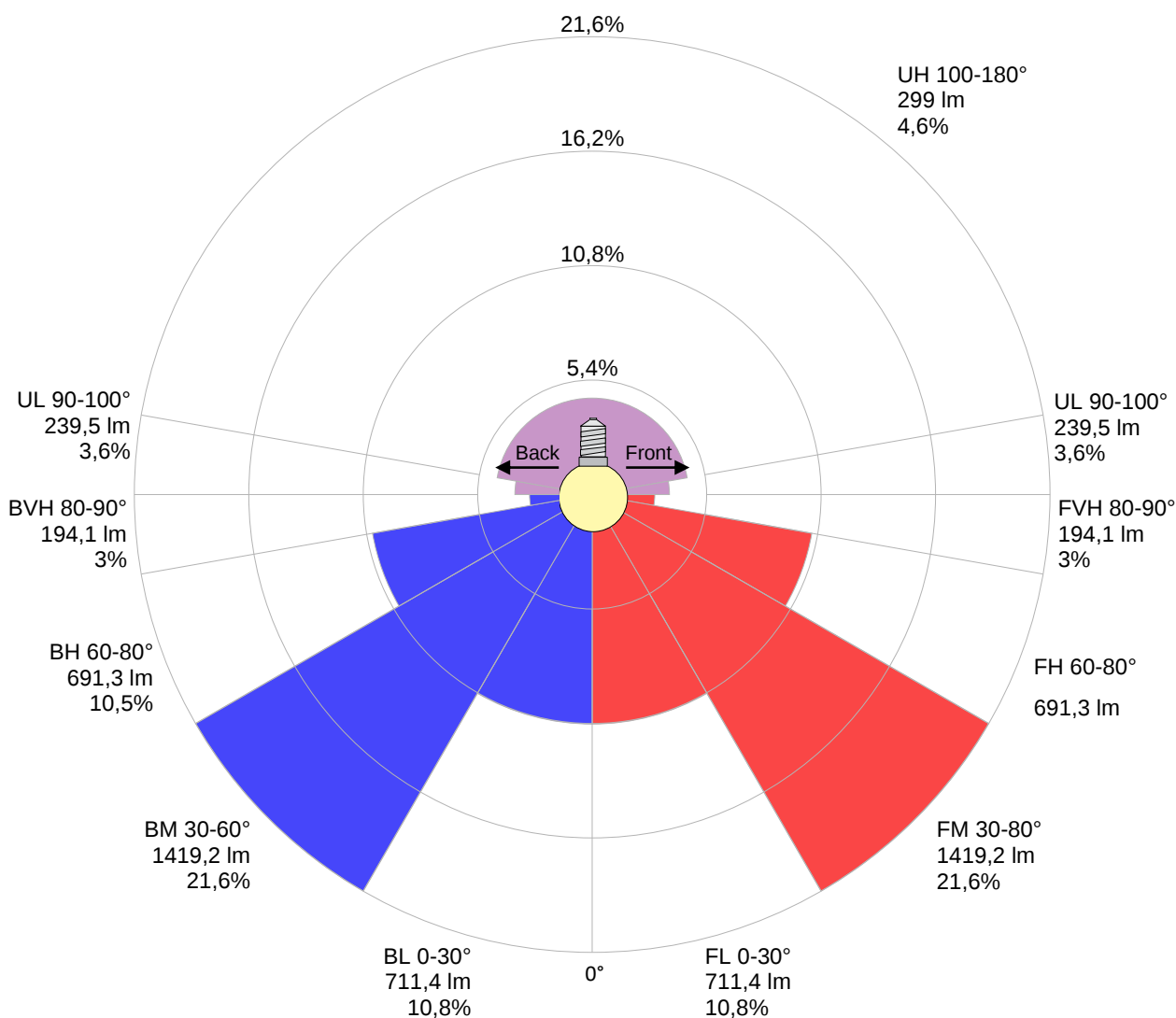
Zonal Lumen Summary

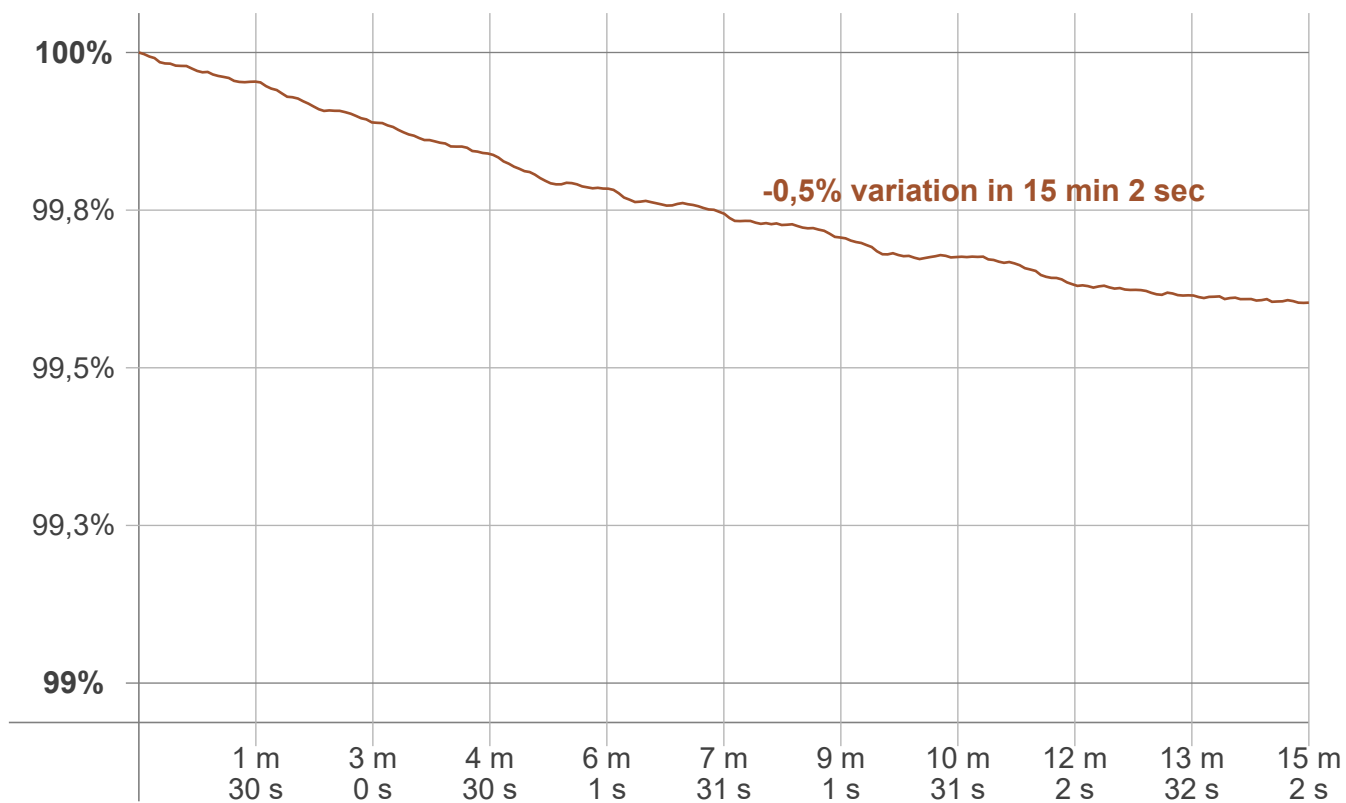
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	496 lm	756 lm	923 lm	983 lm	934 lm	792 lm	591 lm	387 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
239 lm	143 lm	79,6 lm	39,4 lm	17,0 lm	8,42 lm	6,02 lm	3,75 lm	1,29 lm

LCS table

BUG rating:	B2 U3 G2	
Forward light	Lumens	Lumens %
Low(0-30):	711,4	10,8%
Medium(30-60):	1419,2	21,6%
High(60-80):	691,3	10,5%
Very high(80-90):	194,1	3%
Back light		
Low(0-30):	711,4	10,8%
Medium(30-60):	1419,2	21,6%
High(60-80):	691,3	10,5%
Very high(80-90):	194,1	3%
Uplight		
Low(90-100):	239,5	3,6%
High(100-180):	299	4,6%

LCS graph



Warmup curve

Warmup result

Warmup time:	Lamp stabilized in 15 min 2 sec
Warmup variation	-0,5%

Warmup conditions

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

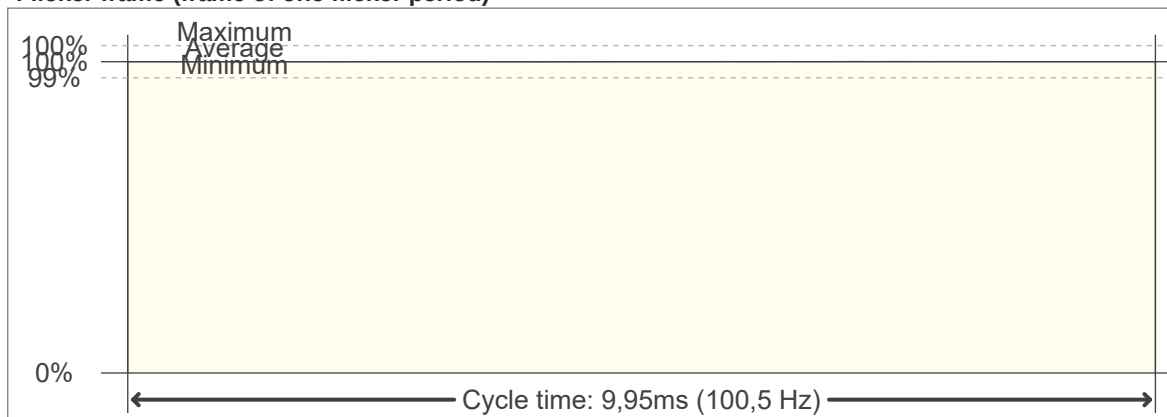
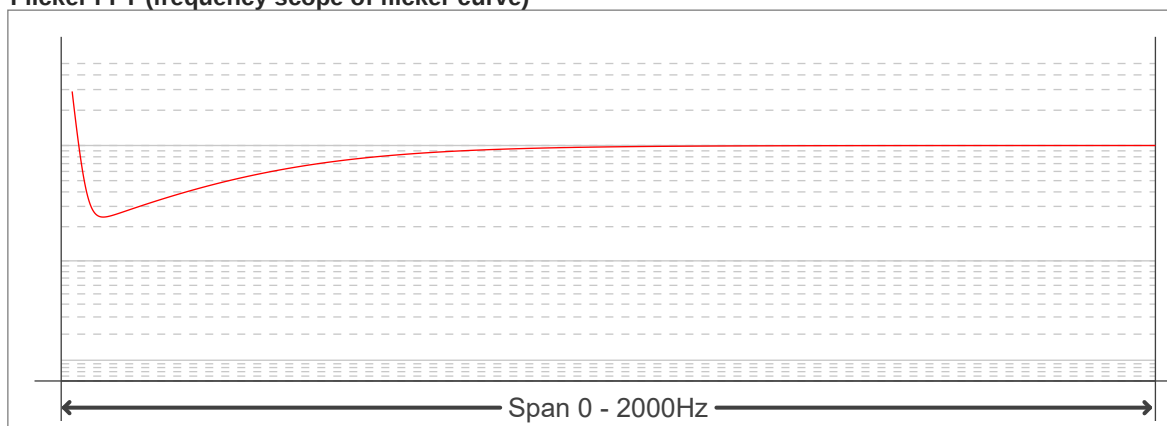
Color temperature change

CCT start	CCT change	CCT end
3997 K	+3 K	4000 K

Output change

Output start	Output change	Output end
6599 lm	-28 lm	6571 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	0,02 %
Flicker percentage:	0,07 %	JA8/10 90Hz	0,03 %
SVM: (Visual flicker)	0	JA8/10 200Hz	0,05 %
PstLM	0,01	JA8/10 400Hz	0,06 %
Mp	0,01	JA8/10 1000Hz	0,06 %

Flicker conditions:

Sample rate:	20000 samples/second
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