

Light efficiency:



Light quality:



Color temperature:



Output: 18401 lm

Peak: 9368 cd

Power: 207,9 W

PF: 0,98



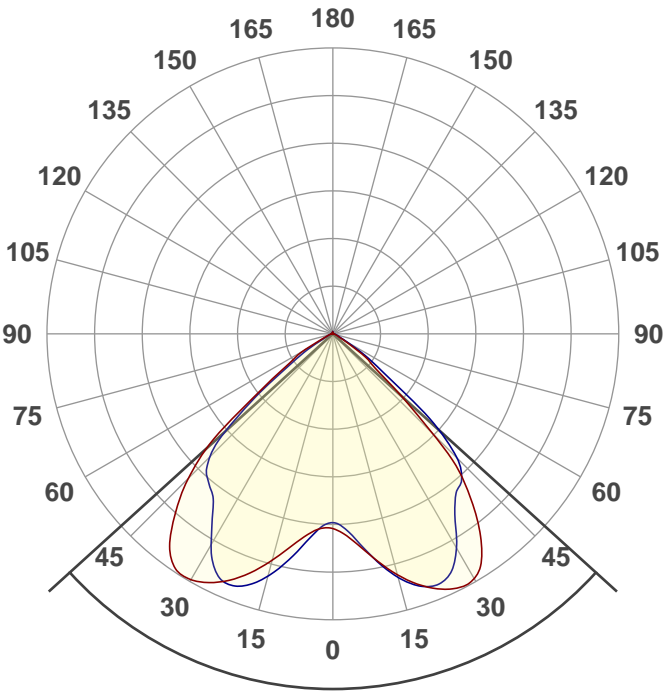
Tracking number: [n/a](#)

Product name:
Demo street down light

Item number:

Date and time:
28/05/2014 15.07.18

Description:

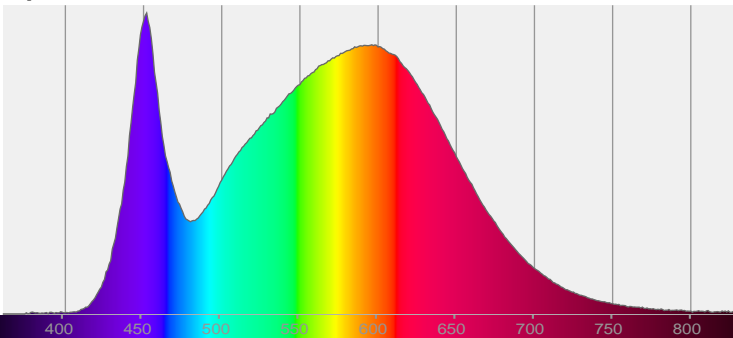


Beam angle **95,6°**

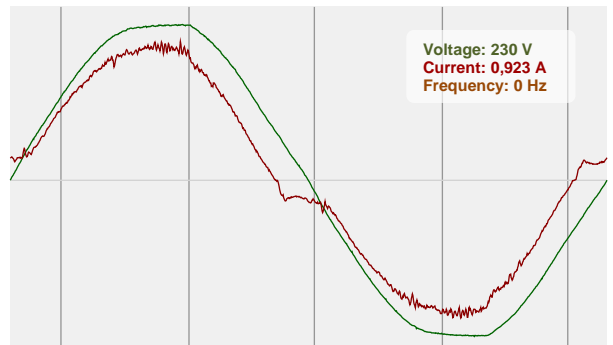


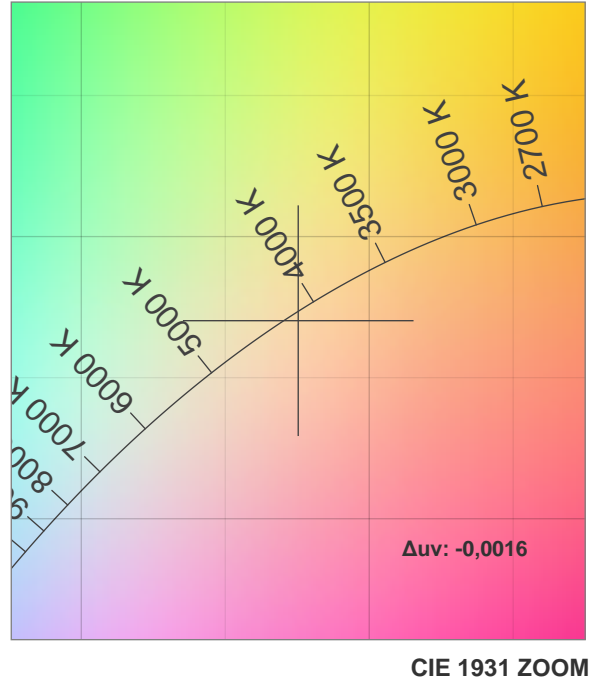
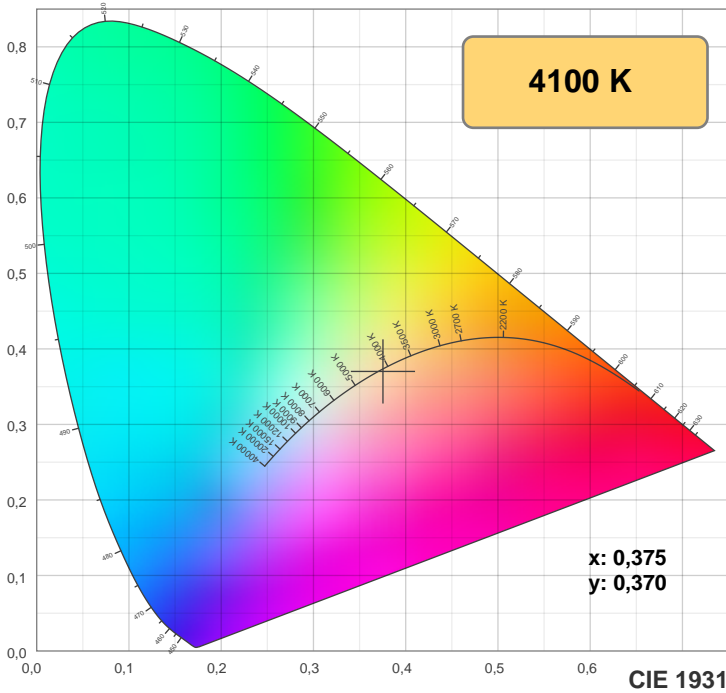
CIE 1931
x: 0,375
y: 0,370

Spectra



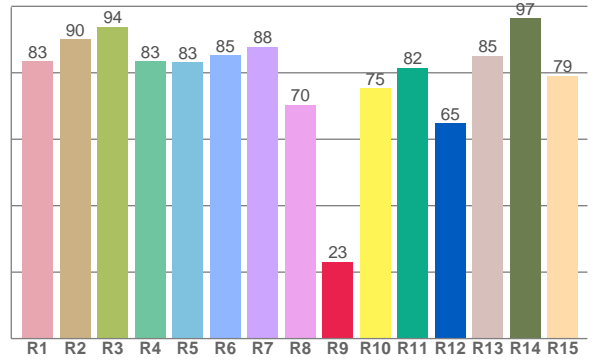
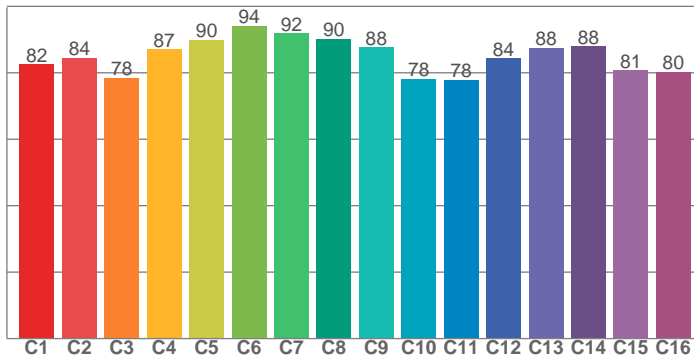
Power





TM-30: 84,9

CRI: 84,7 (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
83,5	90,1	93,8	83,5	83,1	85,2	87,9	70,3	23,1	75,4	81,5	64,8	85,1	96,5	79,1

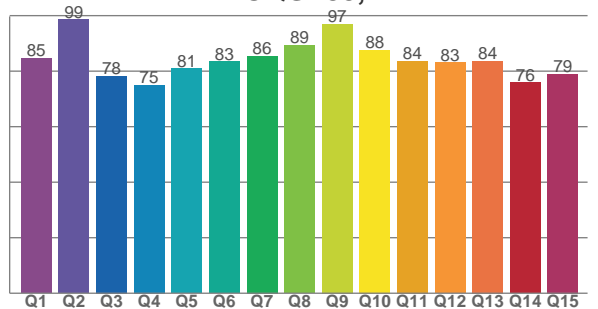
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
82,5	84,5	78,4	87,1	89,9	94,2	91,9	90,2	87,7	78,2	77,8	84,4	87,6	88,0	80,8	80,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
84,6	98,6	78,3	75,0	80,9	83,4	85,5	89,3	97,0	87,6	83,7	83,1	83,6	75,8	78,9

CQS: 83,1



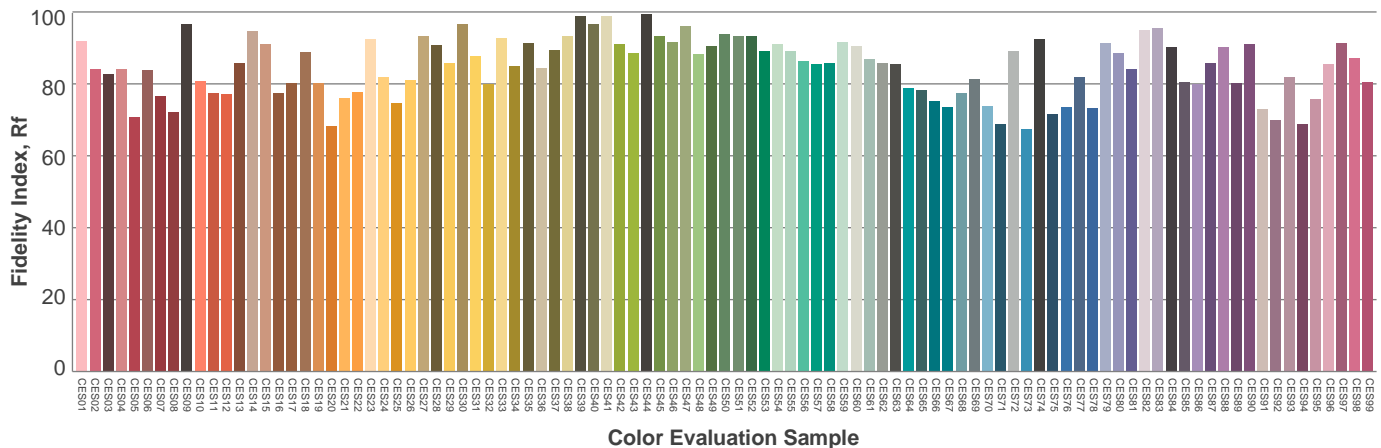
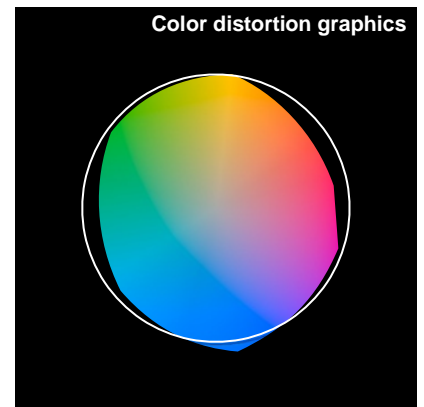
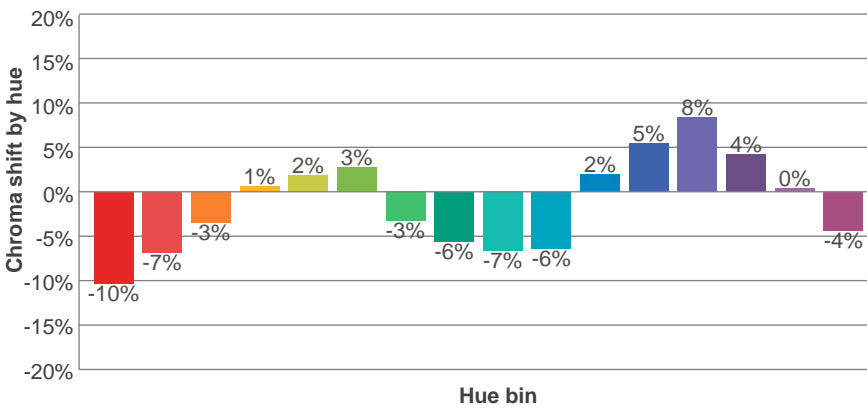
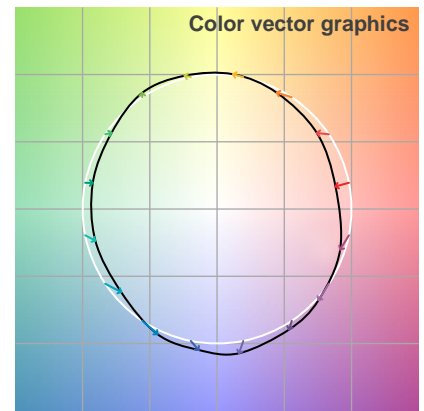
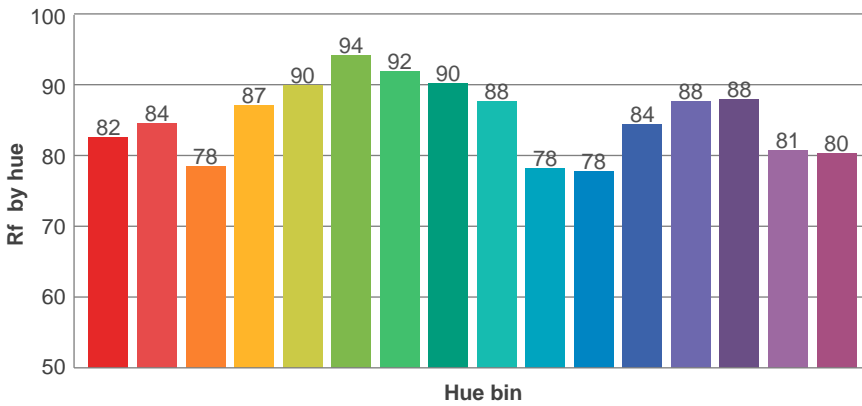
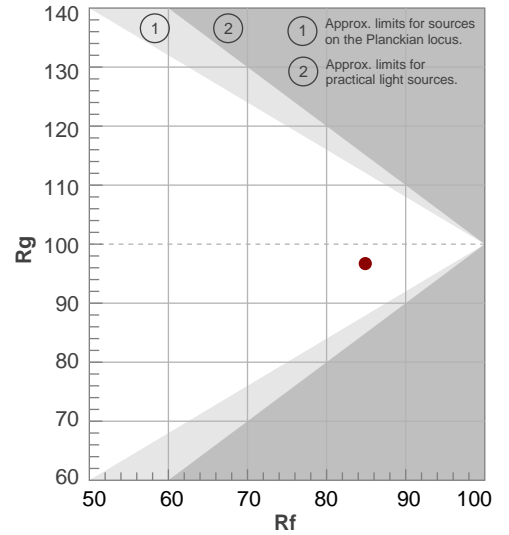
Color parameters

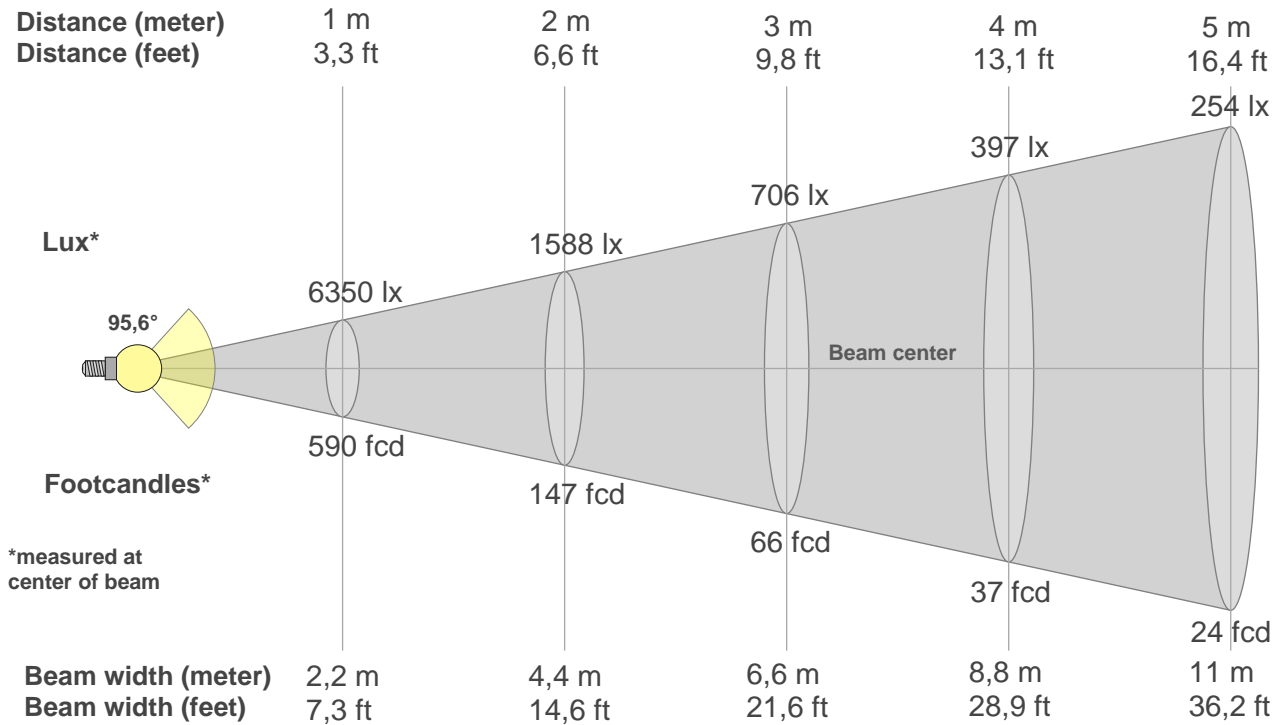
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
4100 K	84,7	23,1	84,9	96,7	83,1	0,375	0,370	0,224	0,332	-0,0016

Rf 84,9
Fidelity index Rf

Rg 96,7
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	82	-10%	-1%
2	84	-7%	6%
3	78	-3%	11%
4	87	1%	8%
5	90	2%	4%
6	94	3%	-2%
7	92	-3%	-4%
8	90	-6%	-1%
9	88	-7%	5%
10	78	-6%	12%
11	78	2%	15%
12	84	5%	7%
13	88	8%	-5%
14	88	4%	-5%
15	81	0%	-14%
16	80	-4%	-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
6350lx	1588lx	706lx	397lx	254lx	176lx	130lx	99lx	78lx	64lx	52lx	44lx	38lx	32lx	28lx	25lx	22lx	20lx	18lx	16lx
589,9fcd	147,5fcd	65,5fcd	36,9fcd	23,6fcd	16,4fcd	12fcd	9,2fcd	7,3fcd	5,9fcd	4,9fcd	4,1fcd	3,5fcd	3fcd	2,6fcd	2,3fcd	2fcd	1,8fcd	1,6fcd	1,5fcd

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°
6350	6809	7467	8216	8848	9277	9271	8509	7049	4748	2178	1231	435	198	130	77	29	11	11	11
100%	107%	118%	129%	139%	146%	146%	134%	111%	75%	34%	19%	7%	3%	2%	1%	0%	0%	0%	0%

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°
6350	6621	7460	8303	8846	8838	8139	7042	6501	5776	3557	1545	559	251	161	107	58	17	7	9
100%	104%	117%	131%	139%	139%	128%	111%	102%	91%	56%	24%	9%	4%	3%	2%	1%	0%	0%	0%

Intensities in 180° c-plane

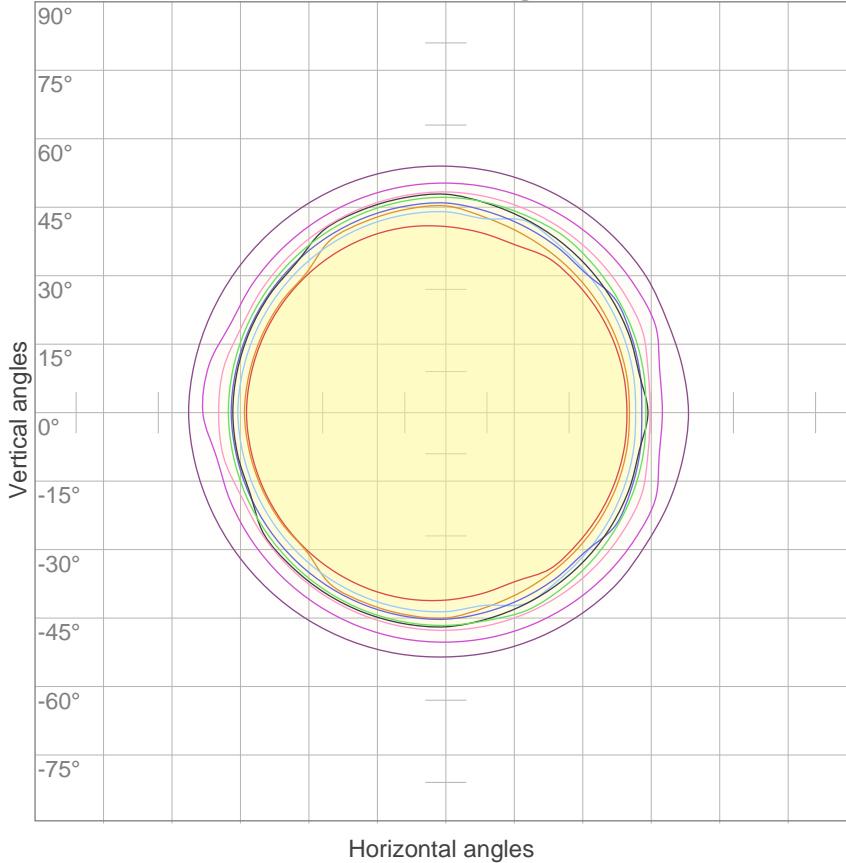
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
6350	6514	7007	7727	8457	9022	9353	9169	8201	6730	4331	2022	1149	380	192	127	73	28	9	11
100%	103%	110%	122%	133%	142%	147%	144%	129%	106%	68%	32%	18%	6%	3%	2%	1%	0%	0%	0%

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°
6350	6598	7407	8252	8819	8859	8014	6912	6372	5645	3675	1593	678	263	166	111	64	23	12	11
100%	104%	117%	130%	139%	140%	126%	109%	100%	89%	58%	25%	11%	4%	3%	2%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
95,6°	117,2°	131,9°	96,9%	78,5%

iso-candela diagram



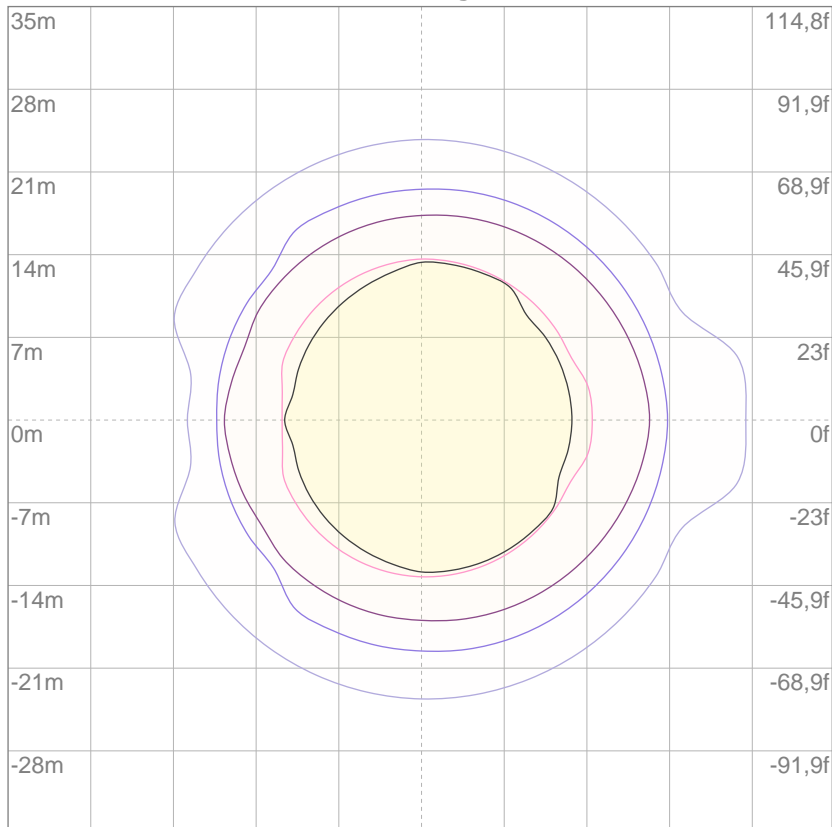
10%	635 cd
20%	1270 cd
30%	1905 cd
40%	2540 cd
50%	3175 cd
60%	3810 cd
70%	4445 cd
80%	5080 cd
90%	5715 cd

Conditions:

Number of c-planes: 4

Candela at center: 6350 cd

iso-lux diagram



3%	1,91 lx
5%	3,18 lx
10%	6,35 lx
30%	19,1 lx
50%	31,8 lx

Conditions:

Number of c-planes: 4

Lux at center: 63,5 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
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 18401 lm total luminous flux										

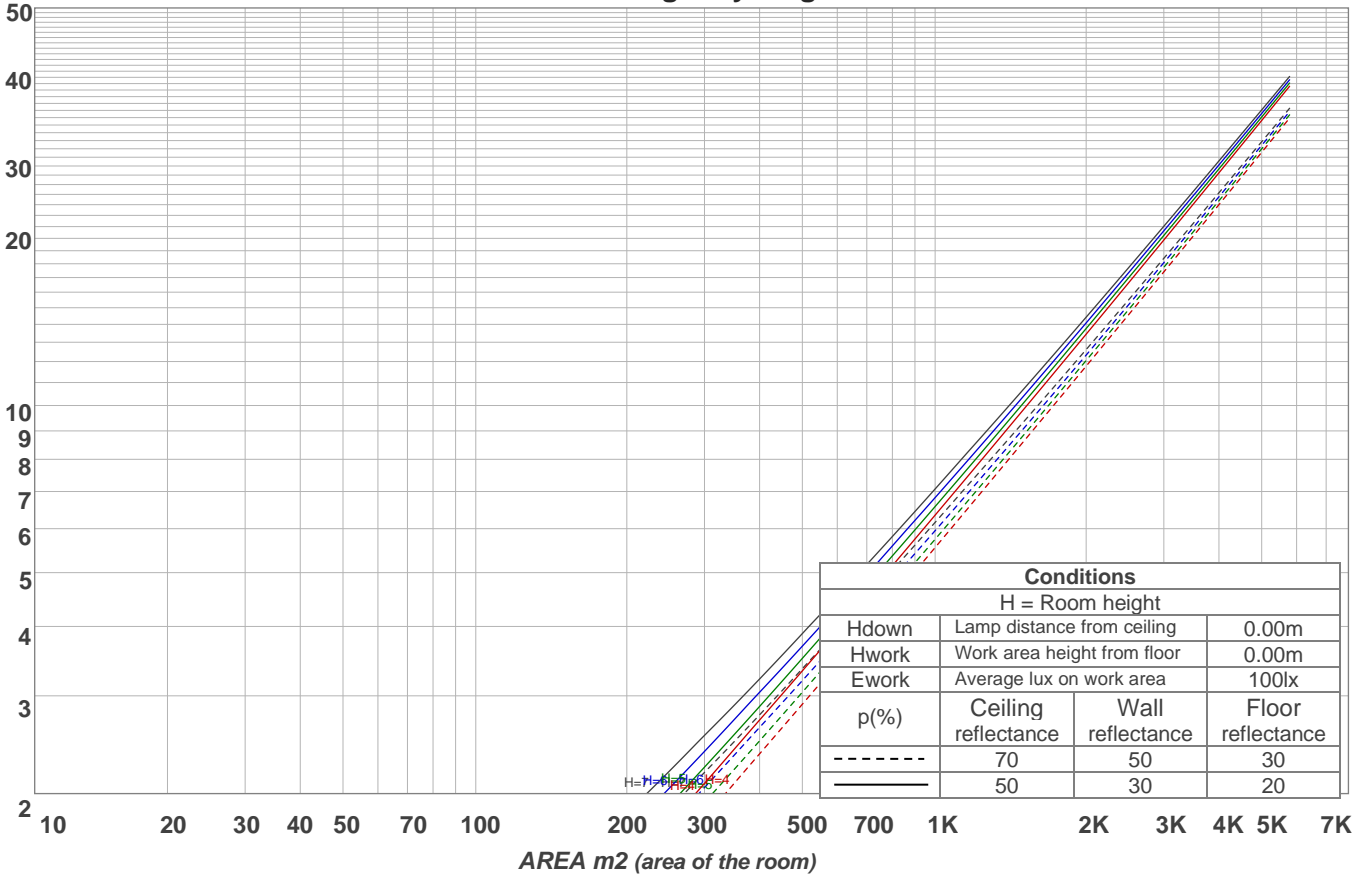
UGR data could not be calculated due to missing dimensions. Goto Edit->Photometric->Dimensions and set the fixture/lamp dimensions.

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	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	112	108	105	102	109	106	103	101	102	99	97	98	96	94	94	93	91	89			
2	104	98	93	88	102	96	91	87	93	89	85	89	86	83	86	84	81	79			
3	97	88	82	77	94	87	81	76	84	79	75	81	77	74	79	75	72	70			
4	90	80	73	68	88	79	72	67	76	71	66	74	69	65	72	68	64	63			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56			
6	78	66	59	53	76	65	58	53	64	57	52	62	56	52	60	55	52	50			
7	72	61	53	48	71	60	53	47	58	52	47	57	51	47	56	50	46	45			
8	68	56	48	43	66	55	48	43	54	47	42	52	46	42	51	46	42	40			
9	63	51	44	39	62	51	43	39	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33			

LAMPS (number of lamps)

Luminaire budgetary diagram



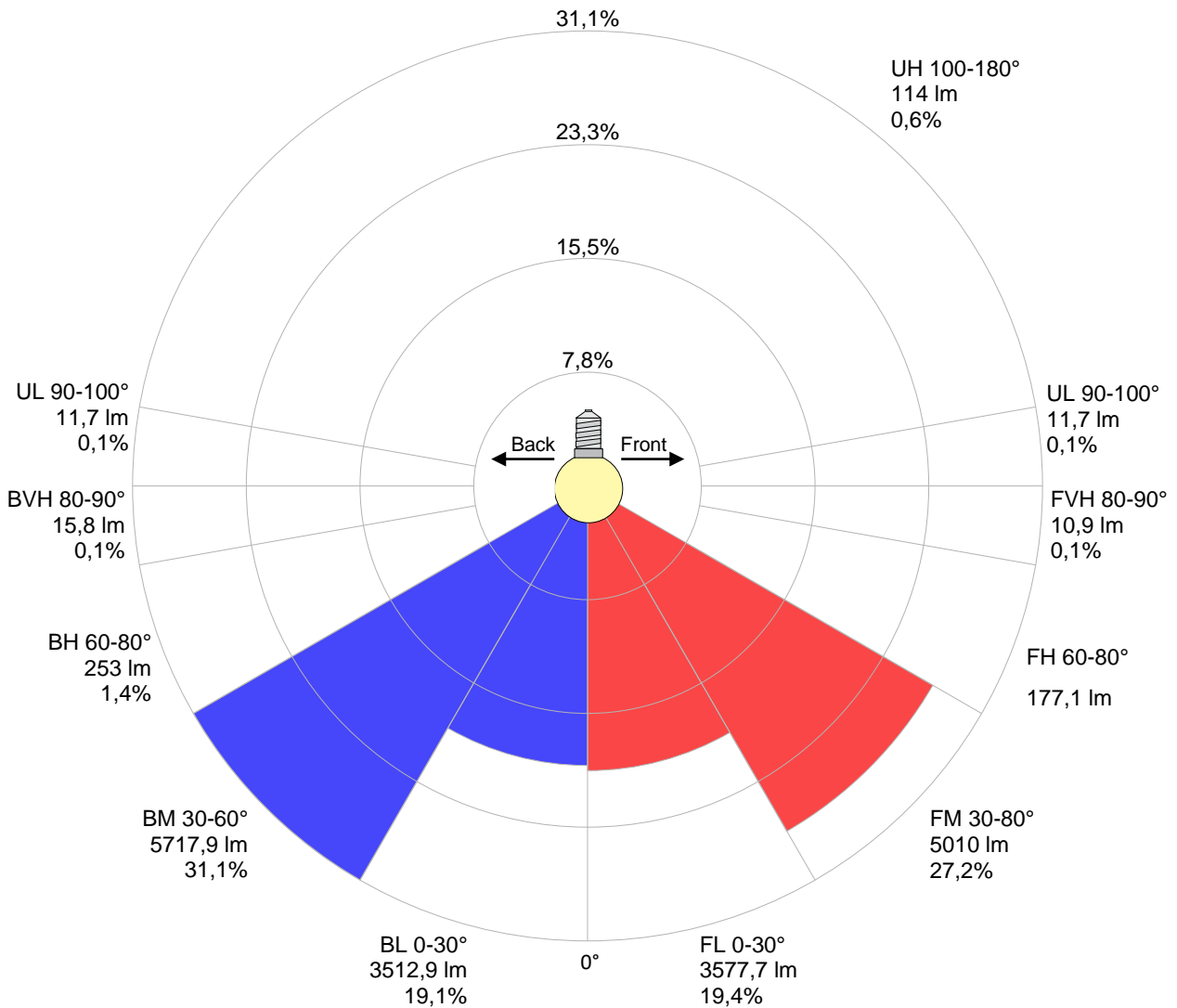
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	2319 lm	4126 lm	4940 lm	4272 lm	1517 lm	308 lm	113 lm	25,8 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
11,7 lm	14,7 lm	17,1 lm	19,0 lm	18,7 lm	17,2 lm	14,1 lm	9,74 lm	3,52 lm

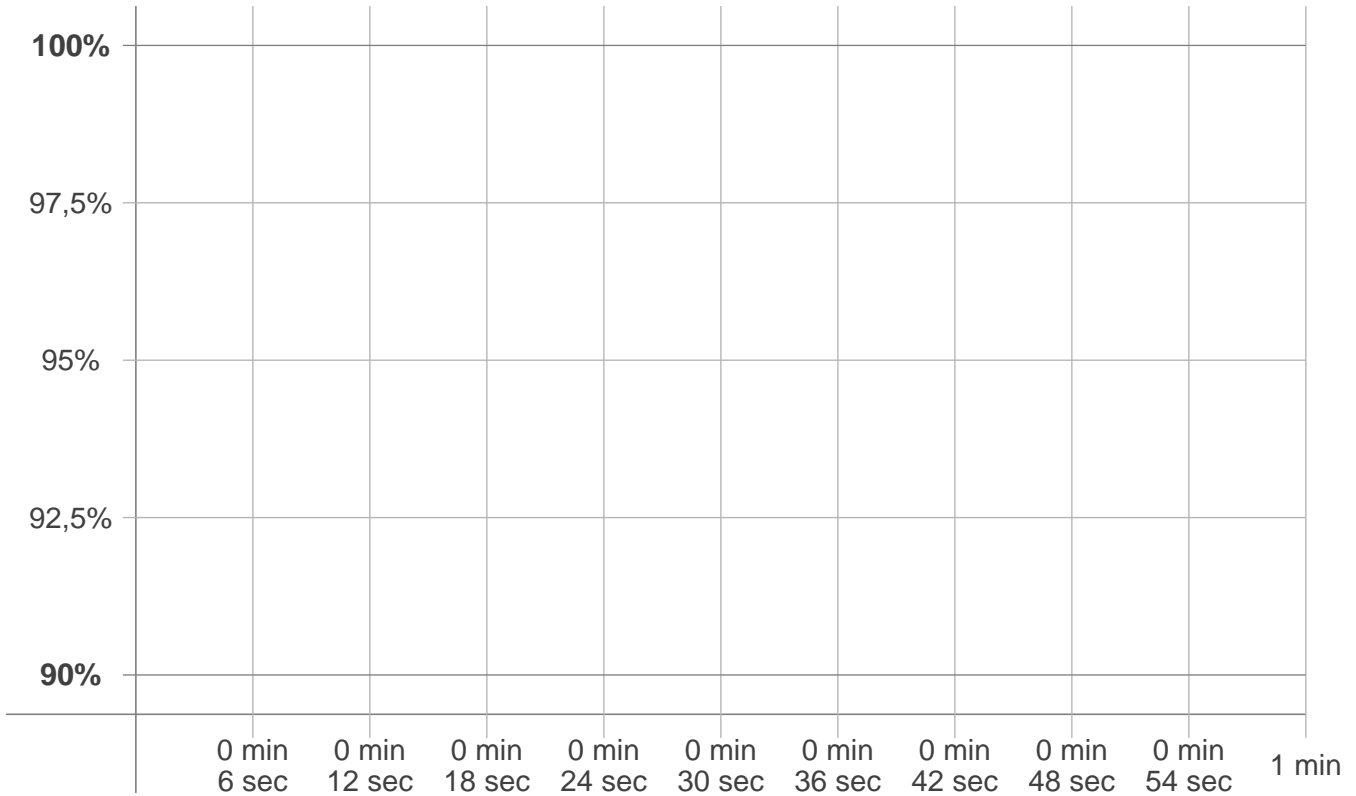
LCS table

BUG rating:	B4 U3 G1	
Forward light	Lumens	Lumens %
Low(0-30):	3577,7	19,4%
Medium(30-60):	5010	27,2%
High(60-80):	177,1	1%
Very high(80-90):	10,9	0,1%
Back light		
Low(0-30):	3512,9	19,1%
Medium(30-60):	5717,9	31,1%
High(60-80):	253	1,4%
Very high(80-90):	15,8	0,1%
Uplight		
Low(90-100):	11,7	0,1%
High(100-180):	114	0,6%

LCS graph



Warmup curve



Warmup result

Warmup time:	n/a
Warmup variation	n/a%

Warmup conditions

Stable period:	n/a
Stable change max:	n/a%
Minimum time:	n/a

Color temperature change

CCT start	CCT change	CCT end
n/a K	n/a K	4100 K

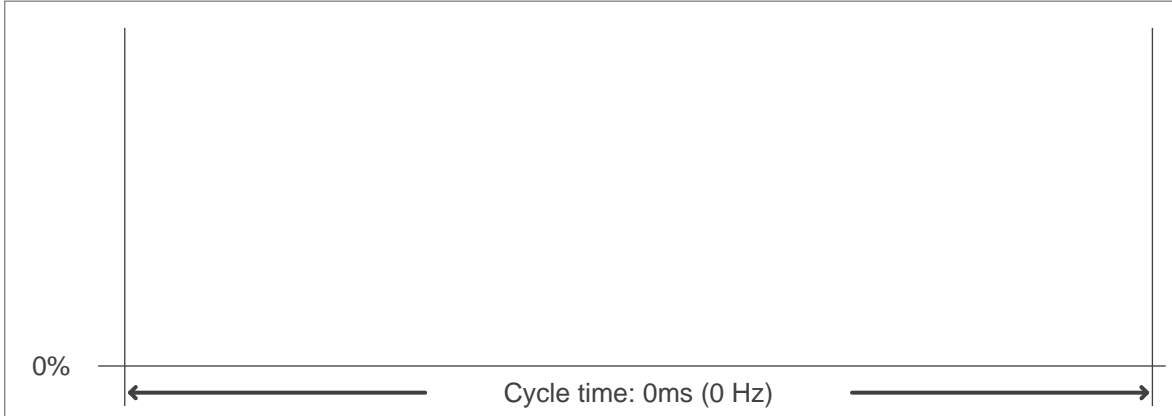
Output change

Output start	Output change	Output end
n/a lm	n/a lm	18401 lm

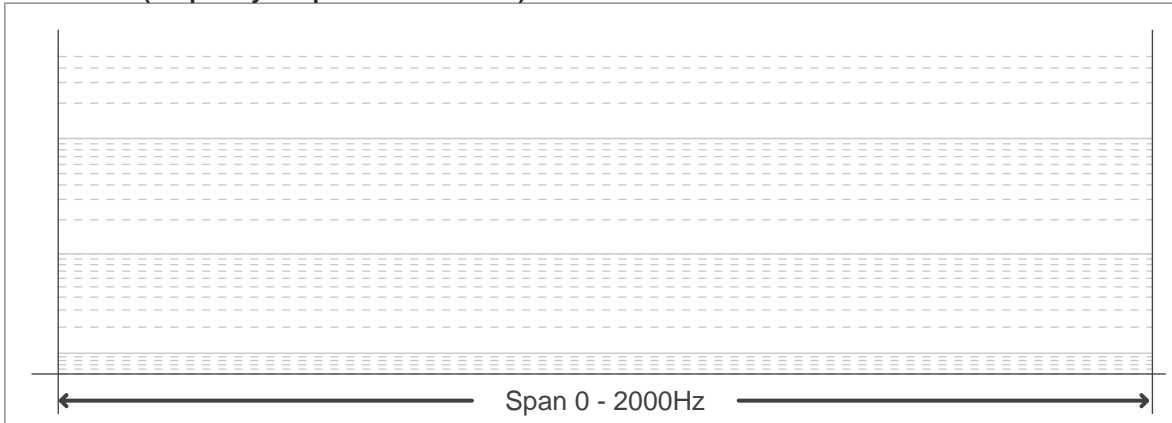
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

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

Flicker conditions:

Sample rate:	0 samples/second
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