

Light efficiency:



Light quality:



Color temperature:

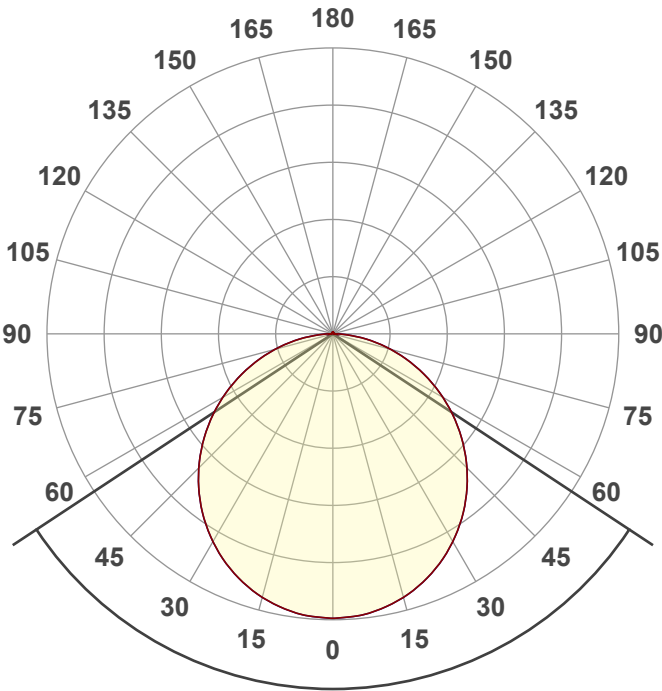


Output: 2658 lm

Peak: 903 cd

Power: 24,3 W

PF: 0,94



Tracking number: [VT240926-005500](#)

Product name:
270442-3000K

Item number:
270442-3000K

Date and time:
26-9-2024 09:35:50

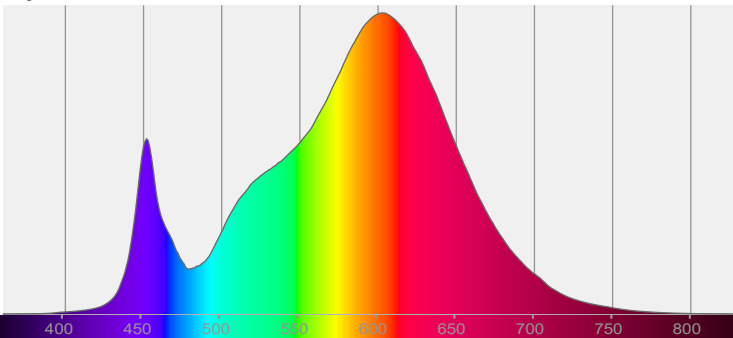
Description:
**SIDE-LIT LED PANEEL | DESDE |
120X15CM | 25W | CCT-SWITCH**

Beam angle **113,1°**

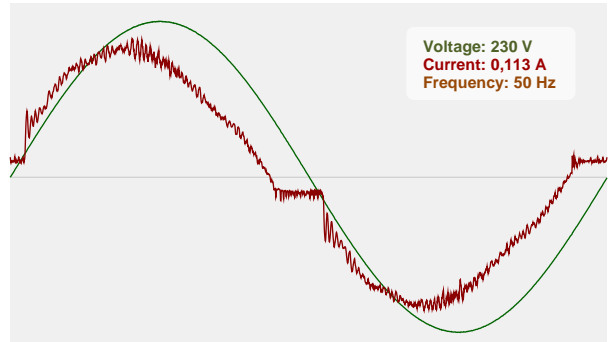


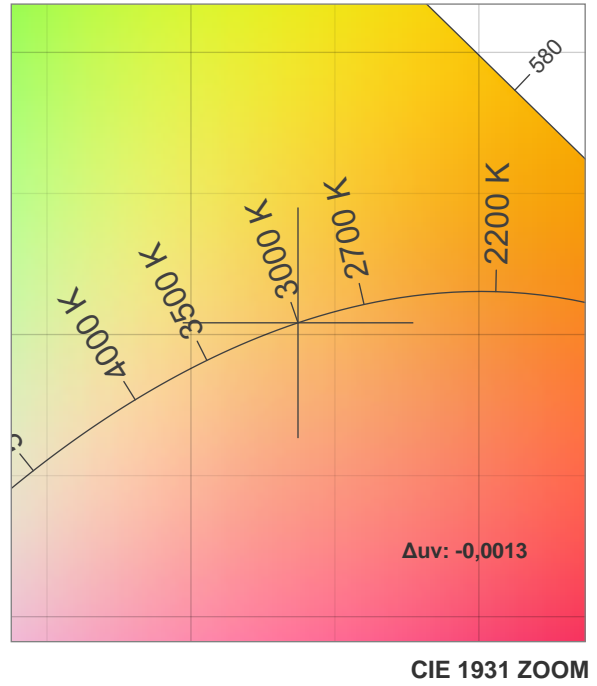
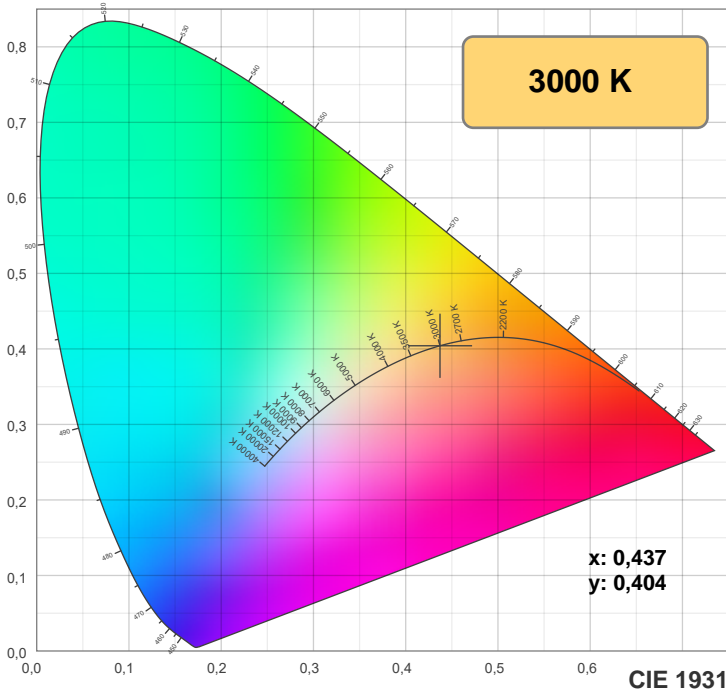
CIE 1931
x: 0,437
y: 0,404

Spectra

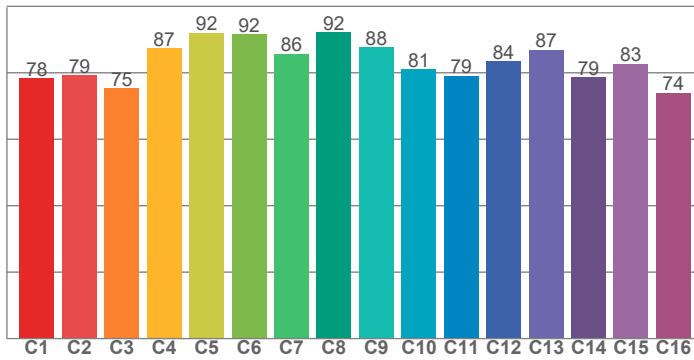


Power

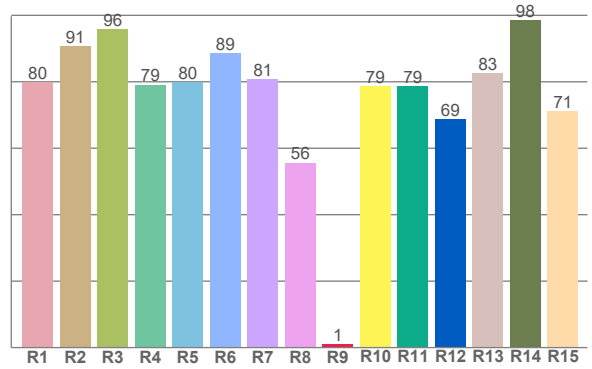




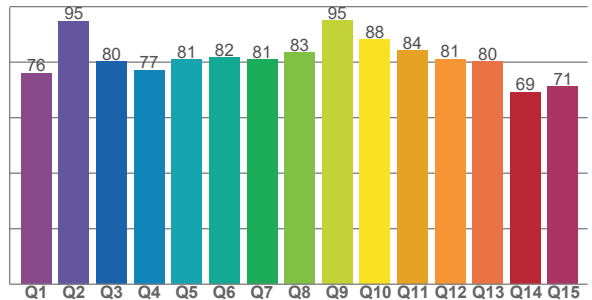
TM-30: 83,2



CRI: 81,3 (R1-R8)



CQS: 80,2



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
79,8	90,6	95,7	79,1	79,8	88,7	80,8	55,7	1,0	78,7	78,7	68,8	82,5	98,5	71,3

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
78,3	79,3	75,3	87,4	92,0	91,6	85,7	92,1	87,6	81,1	79,1	83,5	87,0	78,7	82,7	74,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76,0	94,9	80,2	77,1	81,0	81,7	81,0	83,5	95,0	88,1	84,3	81,1	80,2	69,2	71,3

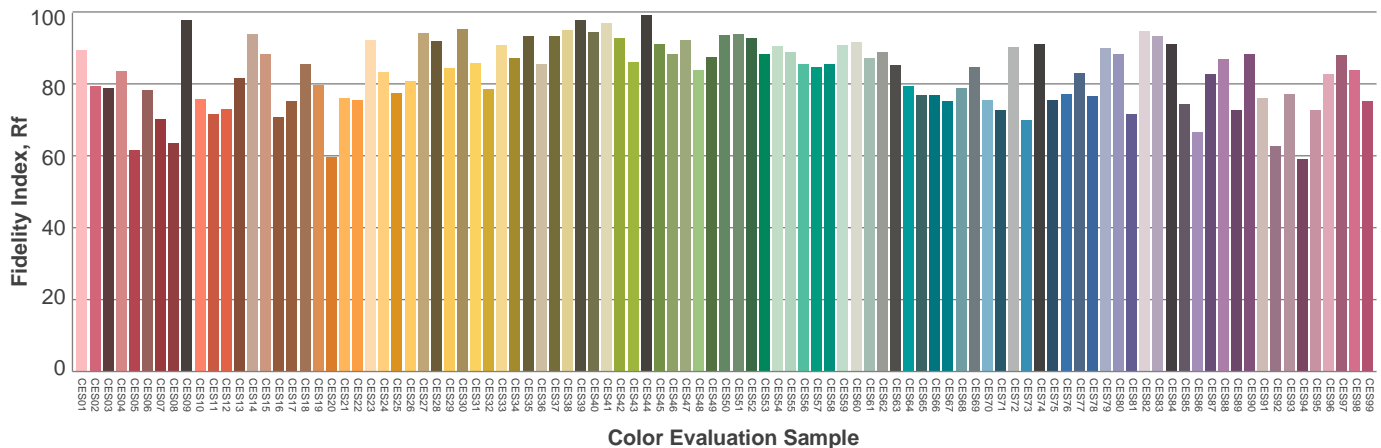
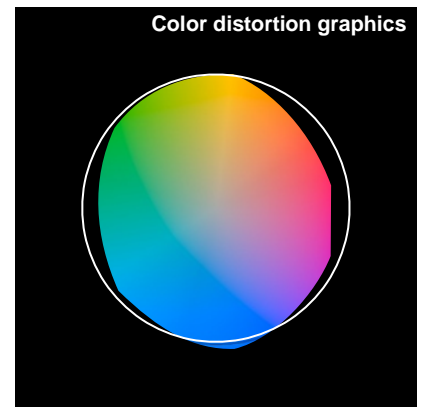
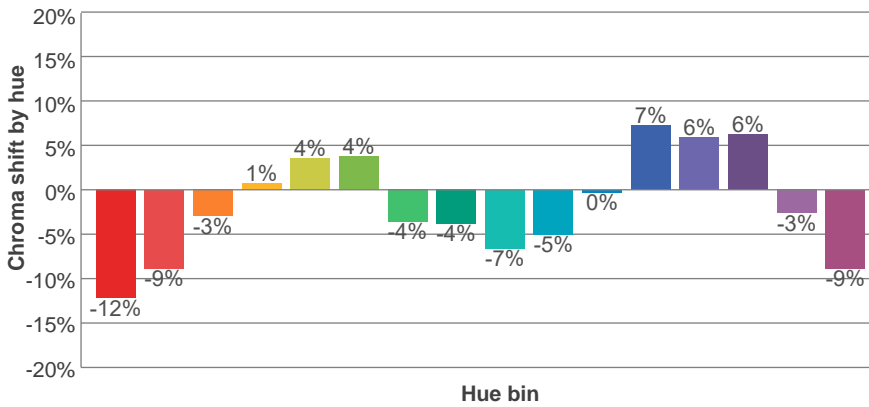
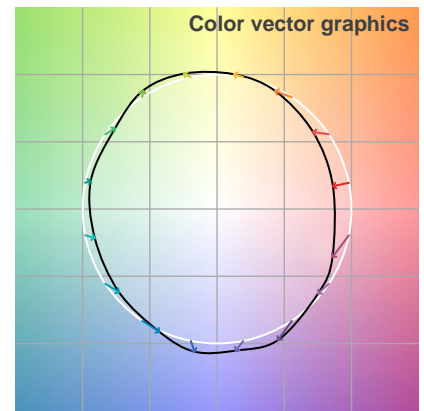
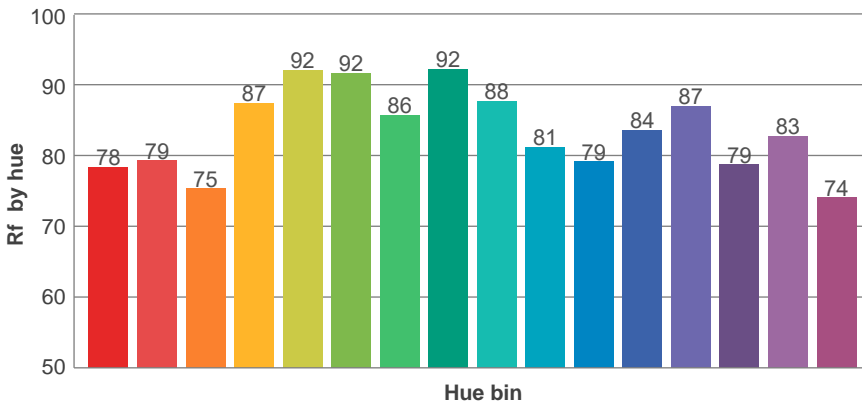
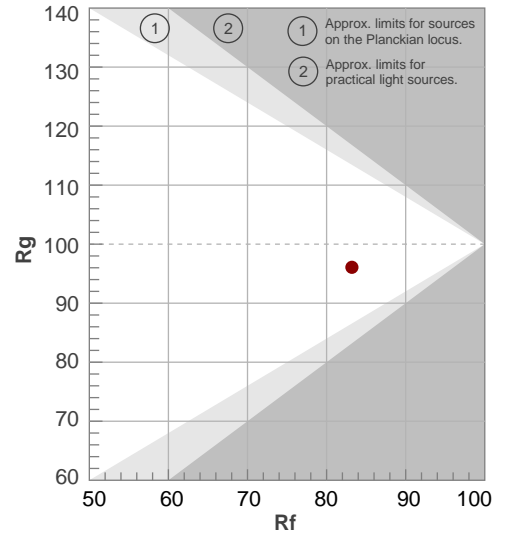
Color parameters

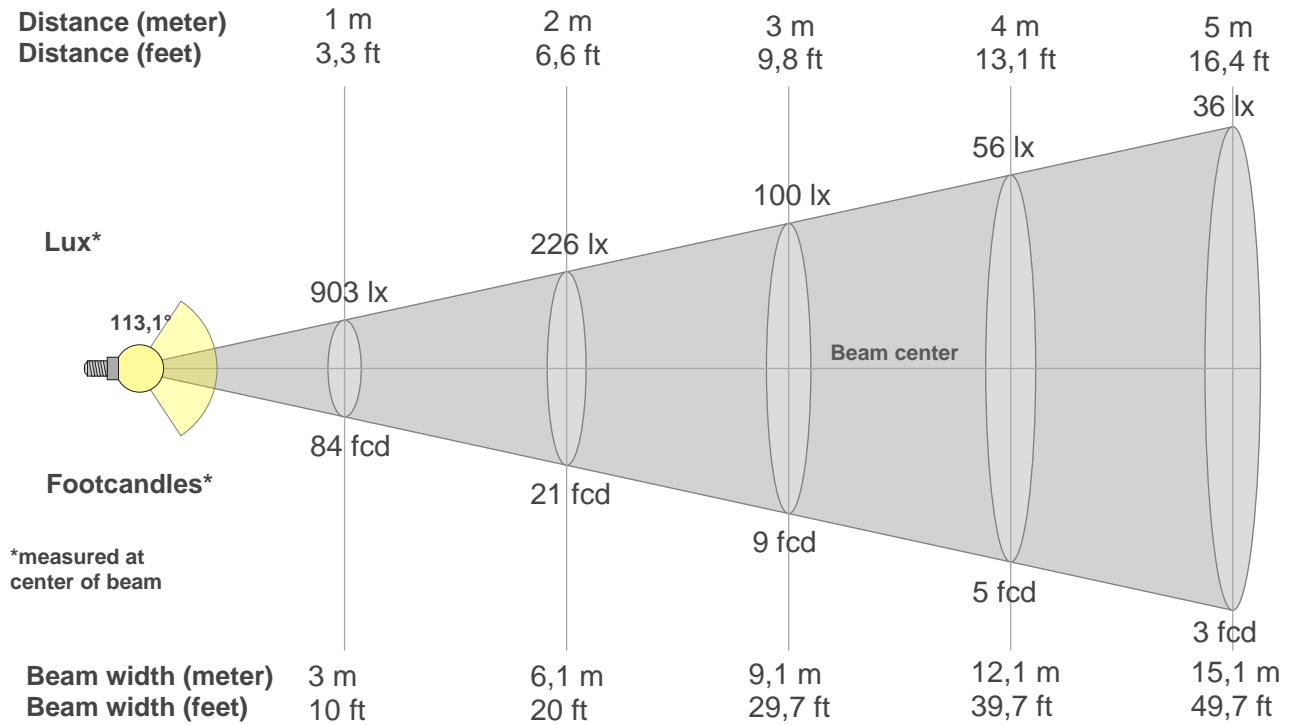
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3000 K	81,3	1,0	83,2	96,1	80,2	0,437	0,404	0,251	0,348	-0,0013

Rf 83,2
Fidelity index Rf

Rg 96,1
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	78	-12%	0%
2	79	-9%	8%
3	75	-3%	13%
4	87	1%	7%
5	92	4%	5%
6	92	4%	-3%
7	86	-4%	-8%
8	92	-4%	-2%
9	88	-7%	3%
10	81	-5%	11%
11	79	0%	15%
12	84	7%	4%
13	87	6%	-7%
14	79	6%	-16%
15	83	-3%	-10%
16	74	-9%	-18%





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
903lx	226lx	100lx	56lx	36lx	25lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
83,9fcd	21fcd	9,3fcd	5,2fcd	3,4fcd	2,3fcd	1,7fcd	1,3fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd

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°
903	900	887	867	839	804	762	714	661	602	539	473	404	333	261	190	122	58	16	4
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	52%	45%	37%	29%	21%	14%	6%	2%	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°
903	900	887	867	839	804	762	714	661	602	539	473	404	333	261	190	122	58	16	4
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	52%	45%	37%	29%	21%	14%	6%	2%	0%

Intensities in 180° c-plane

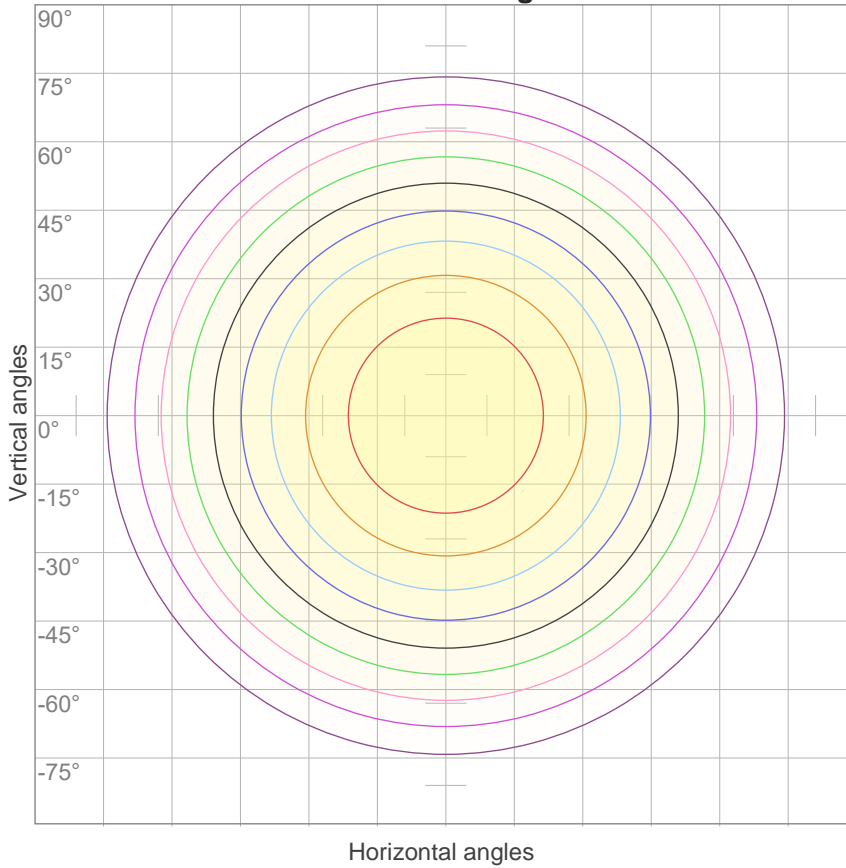
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
903	900	887	867	839	804	762	714	661	602	539	473	404	333	261	190	122	58	16	4
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	52%	45%	37%	29%	21%	14%	6%	2%	0%

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°
903	900	887	867	839	804	762	714	661	602	539	473	404	333	261	190	122	58	16	4
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	52%	45%	37%	29%	21%	14%	6%	2%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113,1°	164,9°	178,1°	76,5%	52,0%

iso-candela diagram



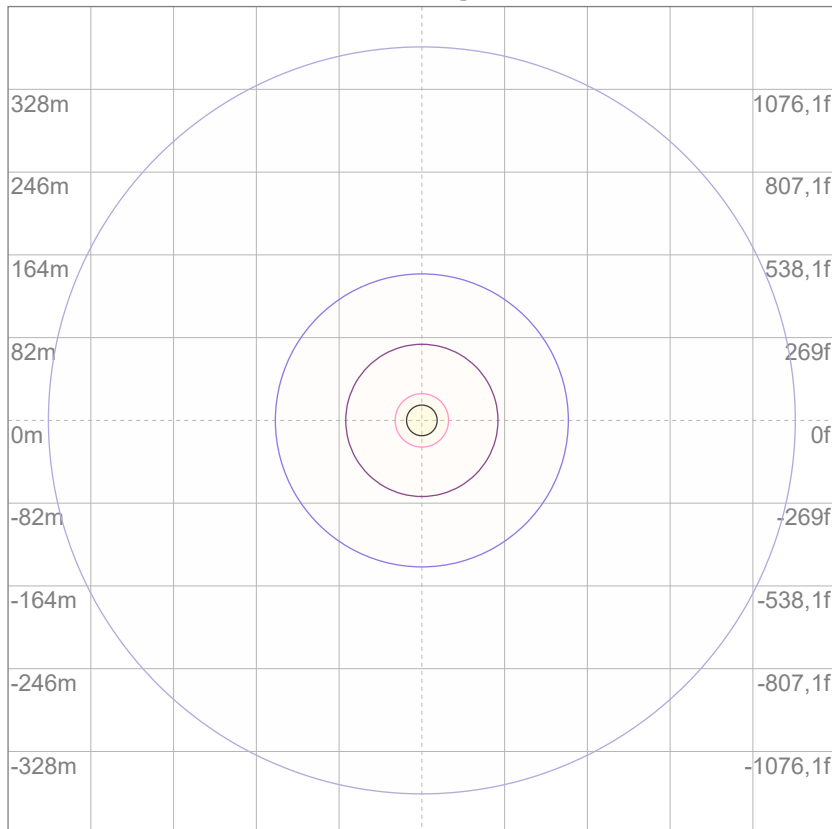
10%	90 cd
20%	181 cd
30%	271 cd
40%	361 cd
50%	452 cd
60%	542 cd
70%	632 cd
80%	723 cd
90%	813 cd

Conditions:

Number of c-planes: 12

Candela at center: 903 cd

iso-lux diagram



Mounting height: 10 meters (33 feet)

3%	0,271 lx
5%	0,452 lx
10%	0,903 lx
30%	2,71 lx
50%	4,52 lx

Conditions:

Number of c-planes: 12

Lux at center: 9,03 lx

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

Glare evaluation according to UGR

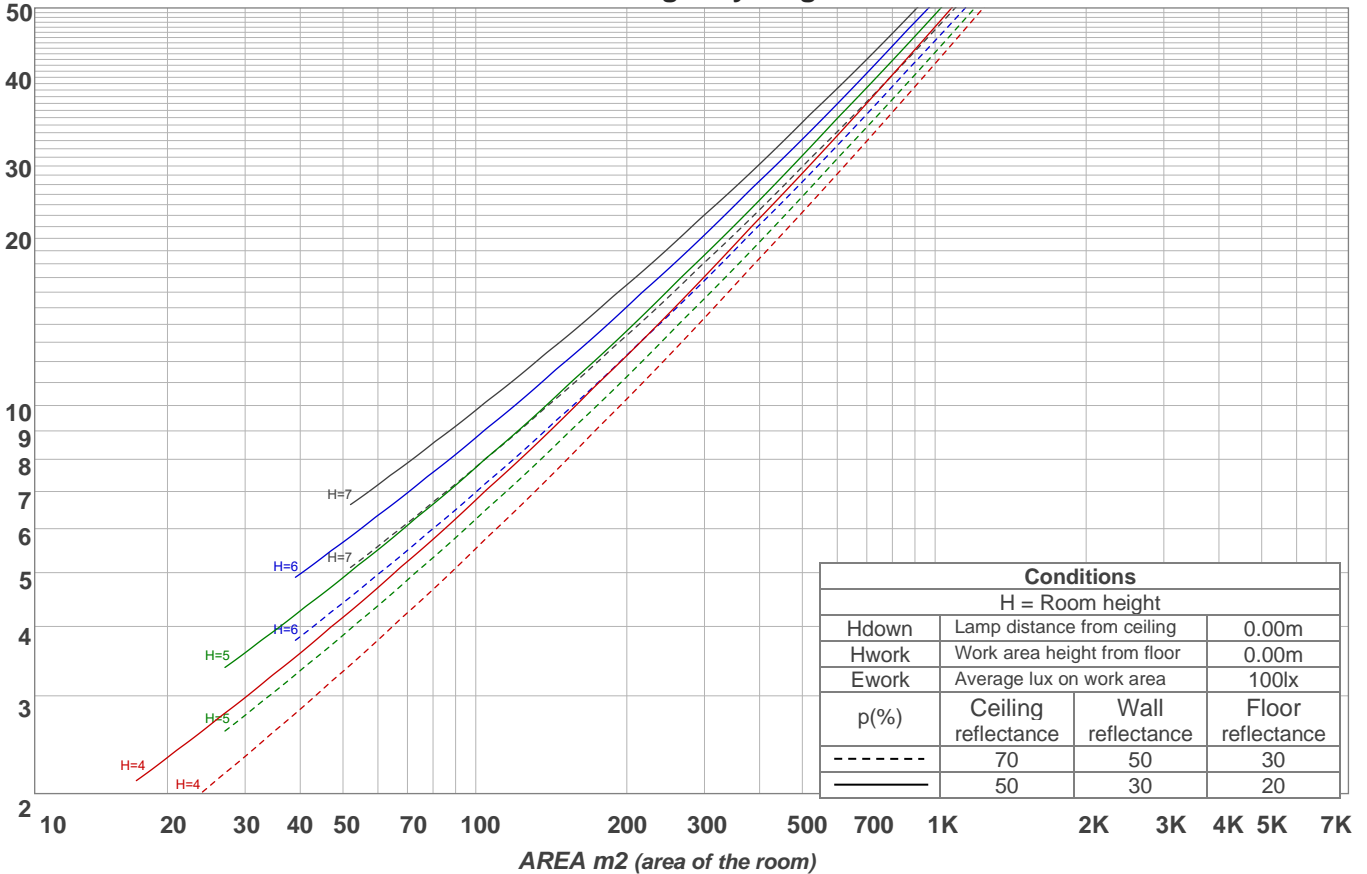
p Ceiling	70	70	50	50	30	70	70	50	50	30	
p Walls	50	30	50	30	30	50	30	50	30	30	
p Floor	20	20	20	20	20	20	20	20	20	20	
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	19,4	20,6	19,6	21,0	21,2	19,1	20,3	19,4	20,7	20,9
	3H	20,9	22,2	21,4	22,5	22,7	20,5	21,8	21,0	22,1	22,3
	4H	21,6	22,9	22,1	23,2	23,4	21,2	22,4	21,6	22,7	23,0
	6H	22,3	23,3	22,6	23,6	24,0	21,7	22,8	22,0	23,1	23,5
	8H	22,5	23,5	22,8	23,8	24,3	21,8	22,9	22,2	23,2	23,6
12H	22,6	23,6	23,0	23,9	24,4	21,9	22,9	22,3	23,3	23,7	
4H	2H	20,0	21,2	20,4	21,5	21,7	19,7	21,0	20,2	21,2	21,5
	3H	21,8	22,8	22,2	23,2	23,7	21,5	22,5	21,9	22,9	23,3
	4H	22,6	23,5	23,0	23,9	24,5	22,1	23,1	22,6	23,5	24,1
	6H	23,2	24,1	23,8	24,5	24,9	22,7	23,6	23,2	24,0	24,4
	8H	23,5	24,3	24,0	24,7	25,1	22,9	23,7	23,4	24,1	24,5
12H	23,7	24,4	24,2	24,8	25,3	23,0	23,7	23,5	24,1	24,6	
8H	4H	22,8	23,6	23,4	24,0	24,4	22,5	23,3	23,0	23,7	24,1
	6H	23,7	24,3	24,2	24,8	25,3	23,2	23,8	23,7	24,3	24,9
	8H	24,0	24,6	24,6	25,1	25,8	23,5	24,0	24,0	24,6	25,2
	12H	24,3	24,7	24,9	25,3	25,9	23,7	24,1	24,3	24,6	25,3
12H	4H	22,8	23,5	23,3	24,0	24,5	22,5	23,2	23,0	23,6	24,1
	6H	23,7	24,3	24,3	24,8	25,5	23,3	23,8	23,8	24,4	25,0
	8H	24,1	24,6	24,7	25,1	25,7	23,6	24,0	24,2	24,6	25,2
Variation of the observer position for the luminaire distance S											
S = 1.0H	0,1 / -0,1					0,1 / -0,1					
S = 1.5H	0,1 / -0,2					0,1 / -0,2					
S = 2.0H	0,4 / -0,4					0,4 / -0,5					
CIE 117-1995. Corrected glare indices referring to 2658 lm total luminous flux											

Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	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	62	71	65	60	68	63	59	57
4	82	69	60	54	79	68	60	53	65	58	52	63	57	51	61	55	51	48
5	75	62	53	46	73	61	52	46	58	51	45	56	50	45	54	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36
7	64	50	42	35	62	50	41	35	48	40	35	46	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23

LAMPS (number of lamps)

Luminaire budgetary diagram



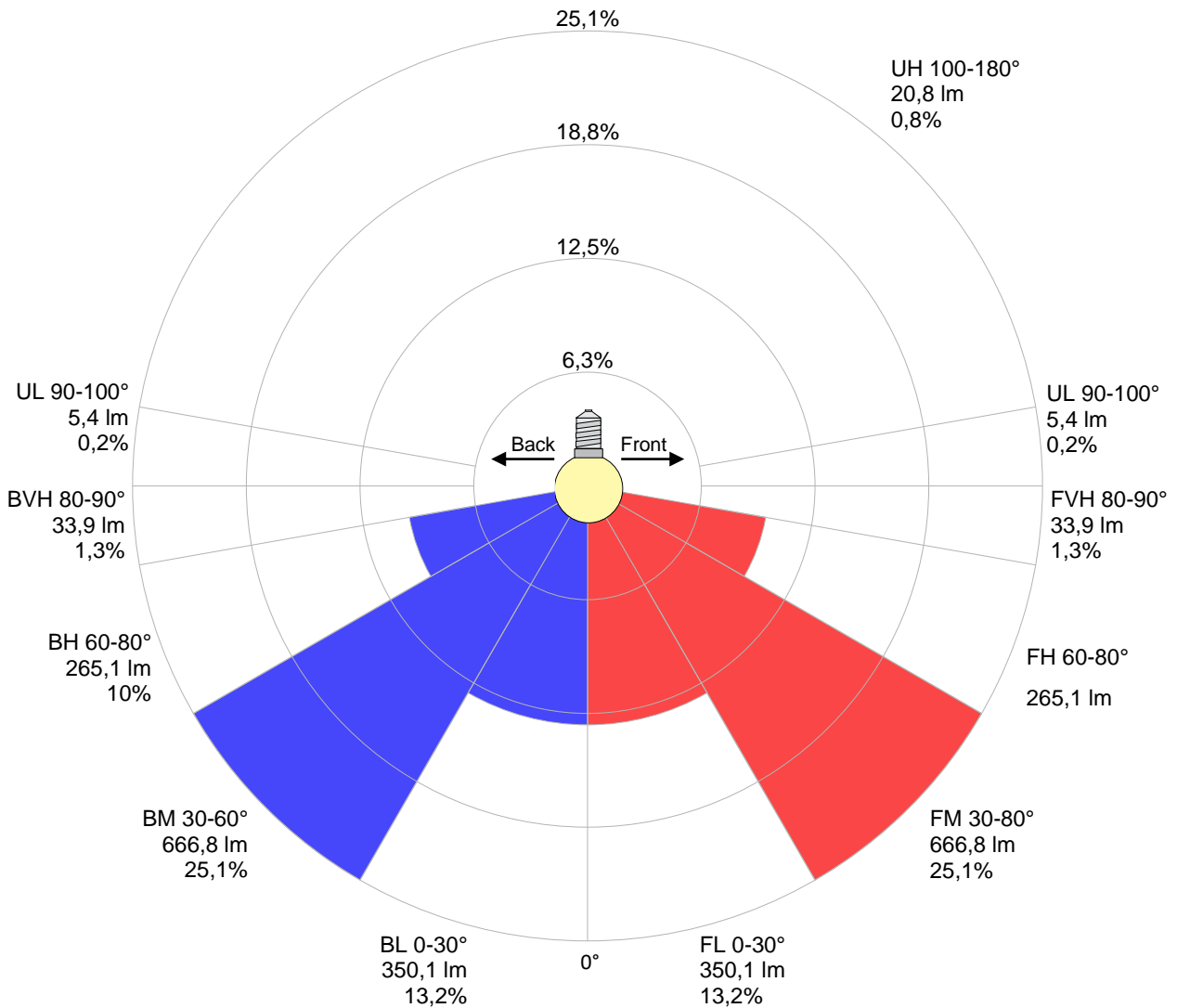
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	245 lm	370 lm	447 lm	465 lm	423 lm	329 lm	201 lm	67,4 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
4,82 lm	3,40 lm	3,67 lm	3,43 lm	3,35 lm	2,82 lm	2,21 lm	1,45 lm	0,510 lm

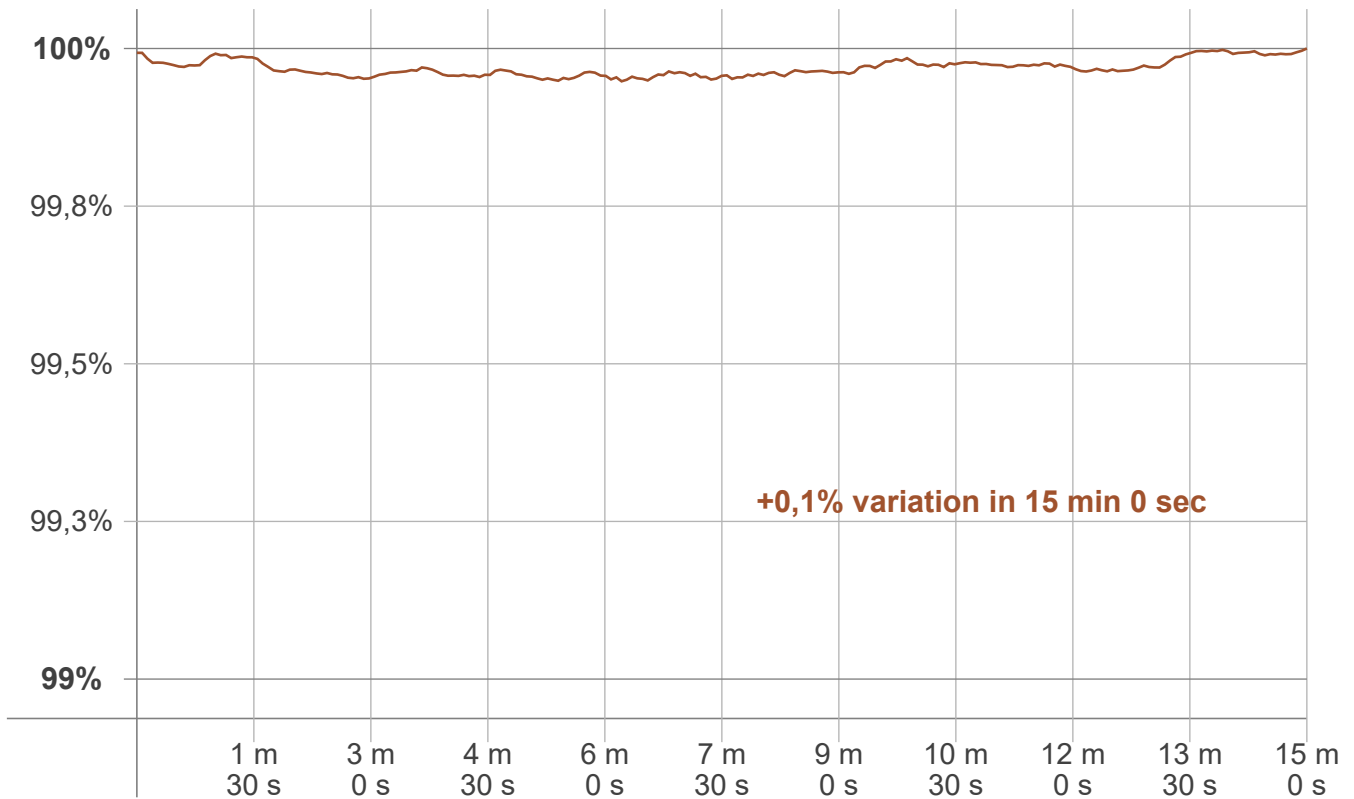
LCS table

BUG rating:	B1 U2 G1	
Forward light	Lumens	Lumens %
Low(0-30):	350,1	13,2%
Medium(30-60):	666,8	25,1%
High(60-80):	265,1	10%
Very high(80-90):	33,9	1,3%
Back light		
Low(0-30):	350,1	13,2%
Medium(30-60):	666,8	25,1%
High(60-80):	265,1	10%
Very high(80-90):	33,9	1,3%
Uplight		
Low(90-100):	5,4	0,2%
High(100-180):	20,8	0,8%

LCS graph



Warmup curve



Warmup result

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

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2999 K	+1 K	3000 K

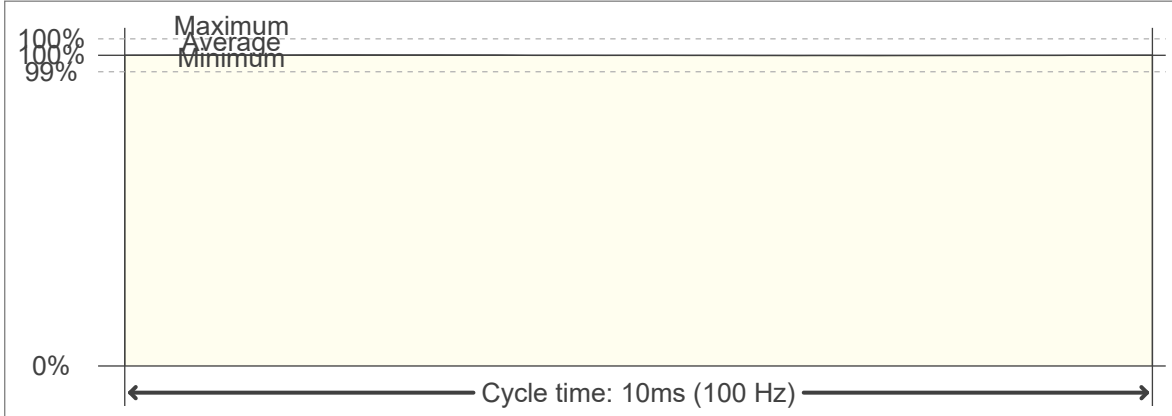
Output change

Output start	Output change	Output end
2659 lm	lm	2658 lm

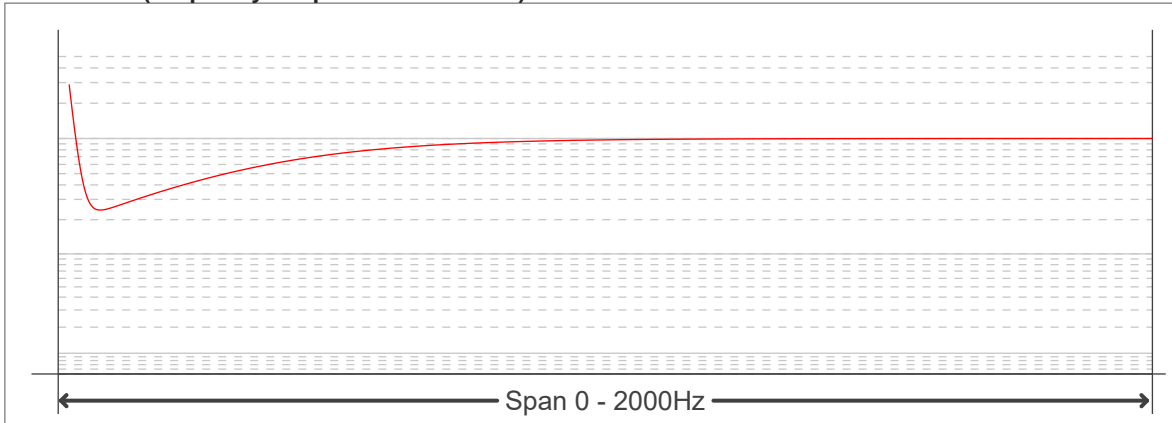
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		100 Hz	
Flicker index:	0	JA8/10 40Hz	0,02 %
Flicker percentage:	0,2 %	JA8/10 90Hz	0,03 %
SVM: (Visual flicker)	0,01	JA8/10 200Hz	0,16 %
PstLM	0,02	JA8/10 400Hz	0,17 %
Mp	0,01	JA8/10 1000Hz	0,18 %

Flicker conditions:

Sample rate:	20000 samples/second
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