

Light efficiency:



Light quality:



Color temperature:



Output: 2775 lm

Peak: 887 cd

Power: 32,4 W

PF: 0,96



Tracking number: [VT241001-003369](#)

Product name:

804558-3000K

Item number:

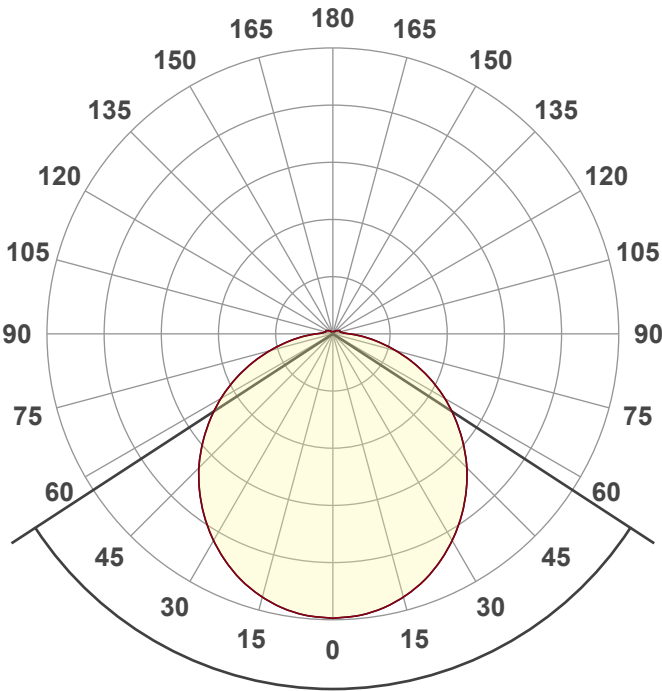
804558-3000K

Date and time:

1-10-2024 13:24:09

Description:

**LED FRAME LED PANEEL | EDGE LIT |
120x30 | 32W | UGR<23 | CCT SWITCH**

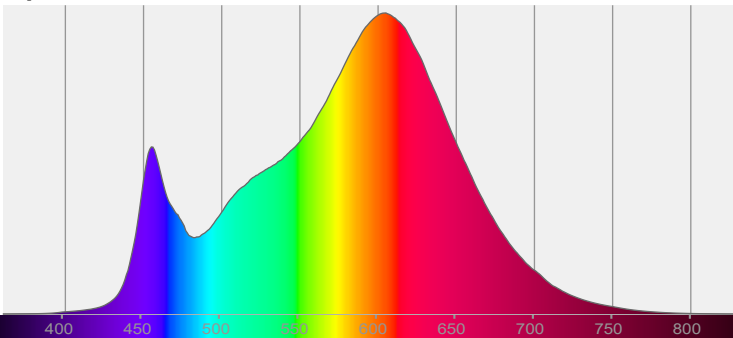


Beam angle **113,8°**

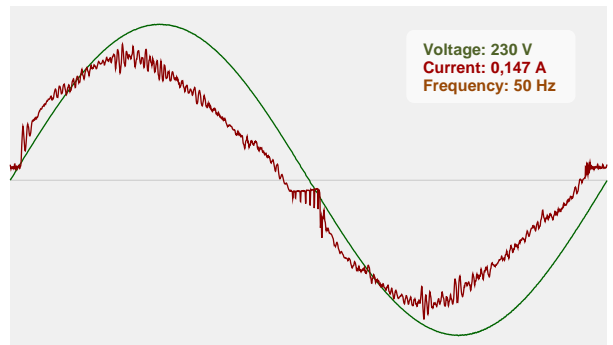


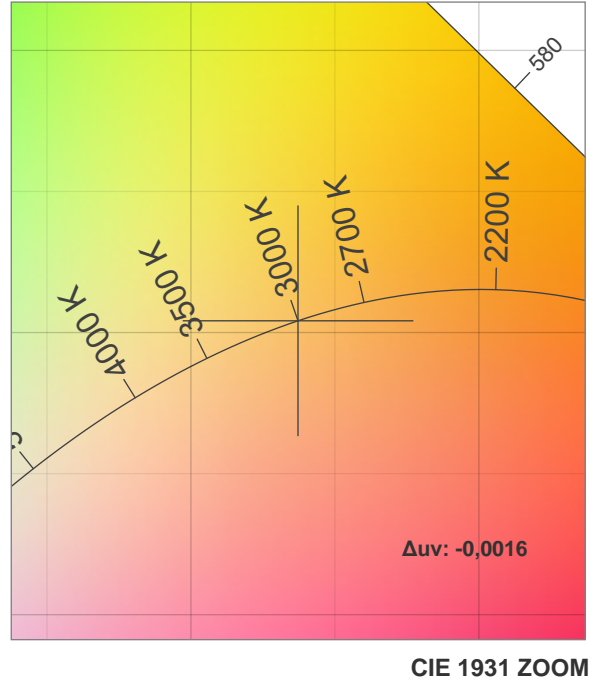
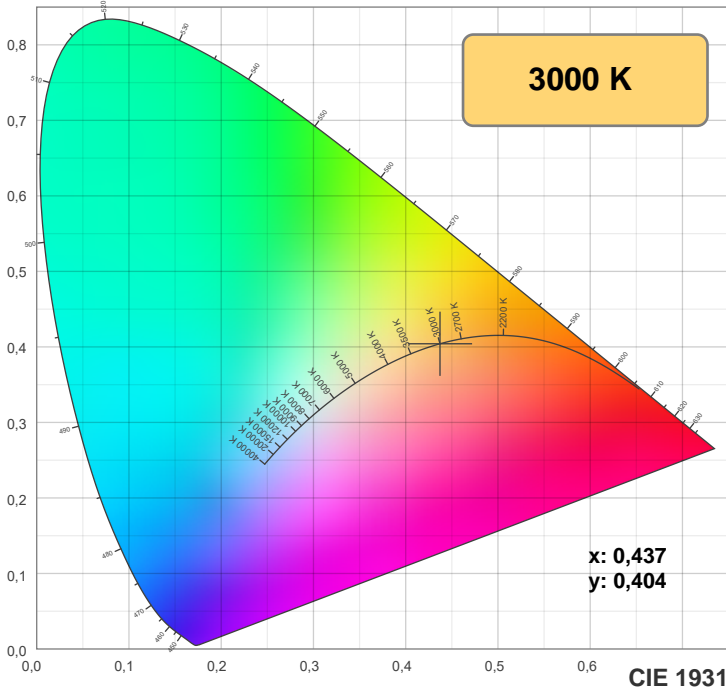
CIE 1931
x: 0,437
y: 0,404

Spectra



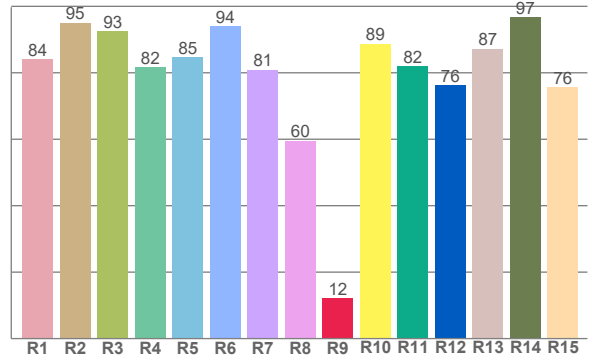
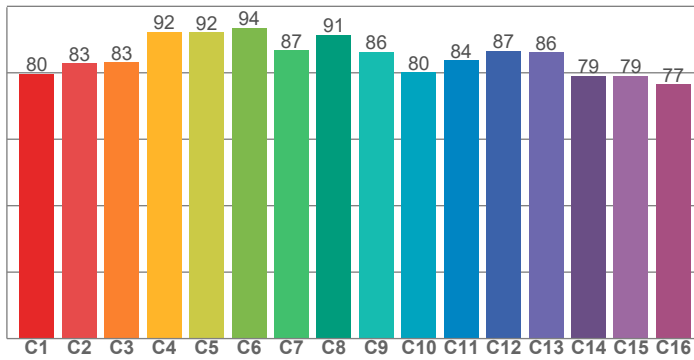
Power



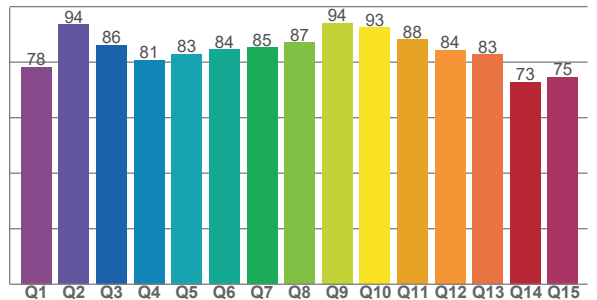


TM-30: 85,2

CRI: 84,0 (R1-R8)



CQS: 83,3



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
84,1	95,1	92,6	81,6	84,7	94,0	80,9	59,5	12,1	88,8	82,0	76,2	87,3	96,6	75,8

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
79,7	82,9	83,1	92,3	92,2	93,6	86,8	91,5	86,4	80,2	83,7	86,6	86,1	79,1	79,1	76,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78,3	93,6	86,1	80,8	82,9	84,5	85,2	87,0	94,1	92,5	88,2	84,4	82,8	72,8	74,7

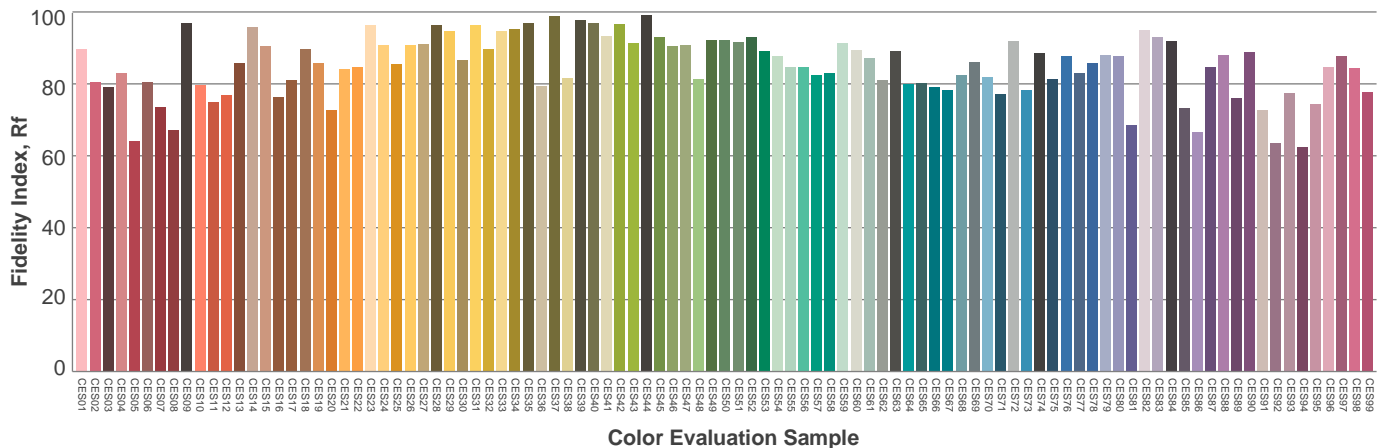
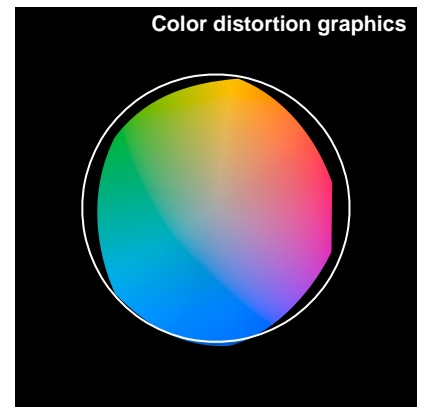
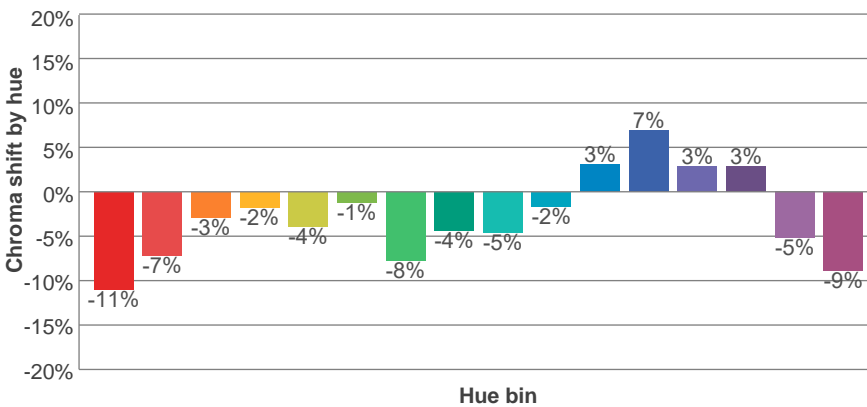
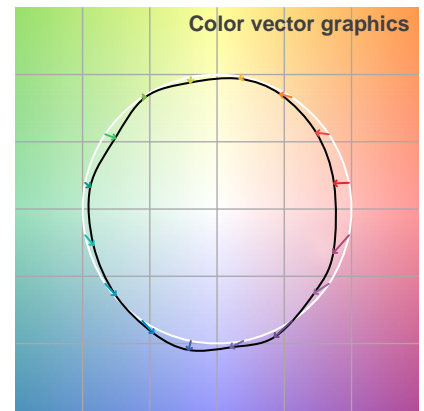
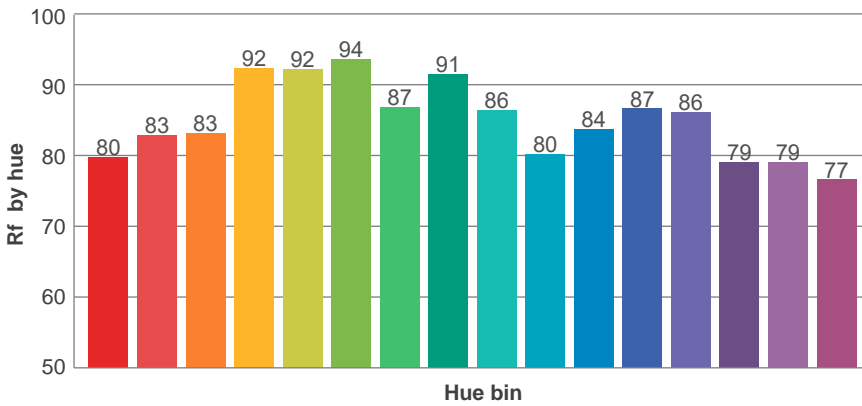
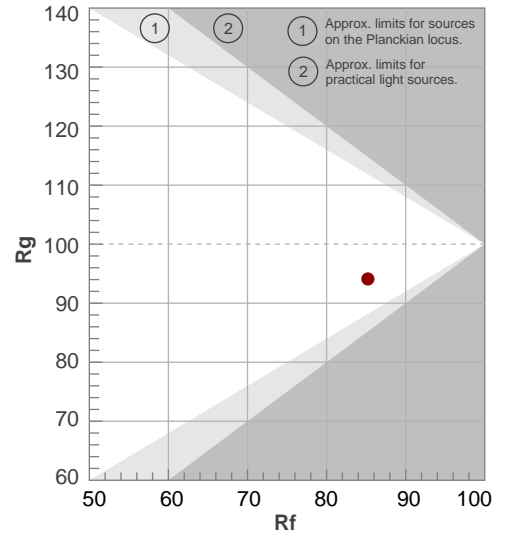
Color parameters

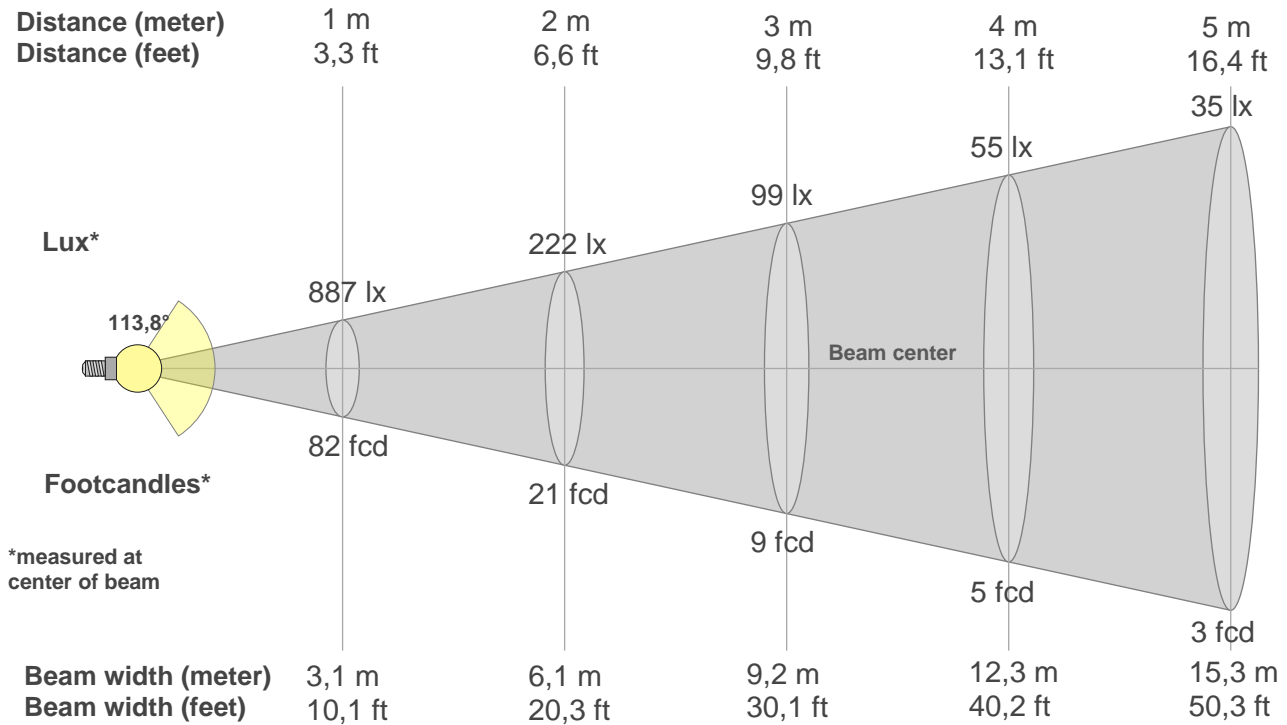
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3000 K	84,0	12,1	85,2	94,1	83,3	0,437	0,404	0,251	0,348	-0,0016

Rf 85,2
Fidelity index Rf

Rg 94,1
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	80	-11%	2%
2	83	-7%	6%
3	83	-3%	8%
4	92	-2%	2%
5	92	-4%	1%
6	94	-1%	-2%
7	87	-8%	-2%
8	91	-4%	2%
9	86	-5%	8%
10	80	-2%	11%
11	84	3%	12%
12	87	7%	0%
13	86	3%	-10%
14	79	3%	-17%
15	79	-5%	-12%
16	77	-9%	-15%





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
887lx	222lx	99lx	55lx	35lx	25lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx
82,4fcd	20,6fcd	9,2fcd	5,2fcd	3,3fcd	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°
887	883	871	851	823	787	745	698	647	591	531	468	404	337	270	204	144	93	52	34
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	53%	45%	38%	30%	23%	16%	11%	6%	4%

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°
887	883	871	851	823	787	745	698	647	591	531	468	404	337	270	204	144	93	52	34
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	53%	45%	38%	30%	23%	16%	11%	6%	4%

Intensities in 180° c-plane

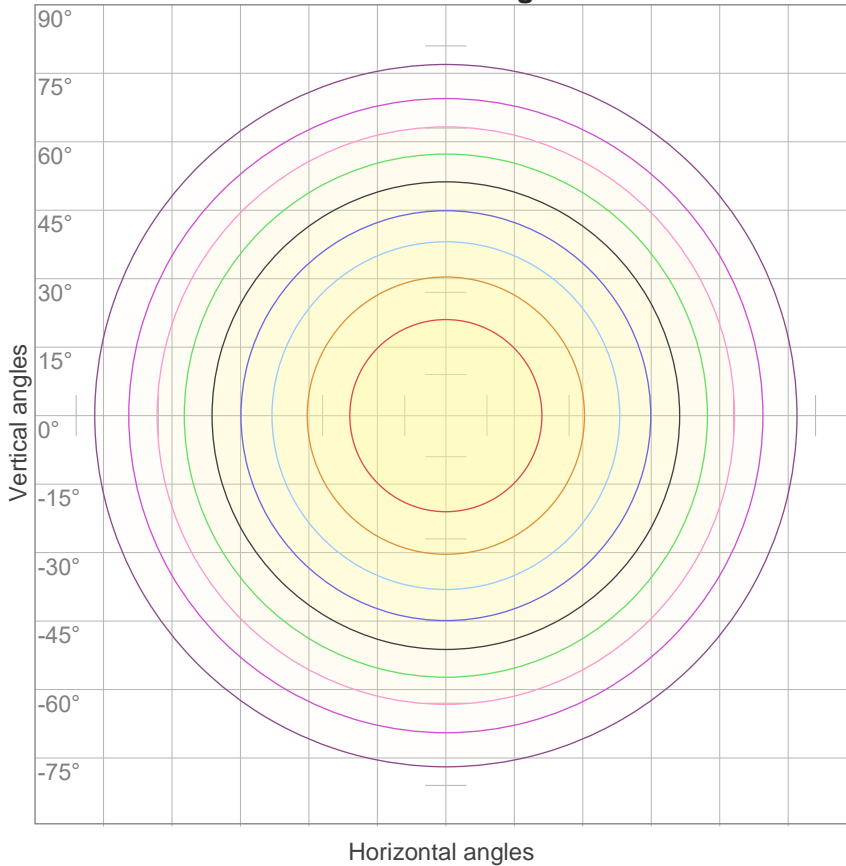
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
887	883	871	851	823	787	745	698	647	591	531	468	404	337	270	204	144	93	52	34
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	53%	45%	38%	30%	23%	16%	11%	6%	4%

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°
887	883	871	851	823	787	745	698	647	591	531	468	404	337	270	204	144	93	52	34
100%	100%	98%	96%	93%	89%	84%	79%	73%	67%	60%	53%	45%	38%	30%	23%	16%	11%	6%	4%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
113,8°	171°	233,1°	71,9%	48,7%

iso-candela diagram



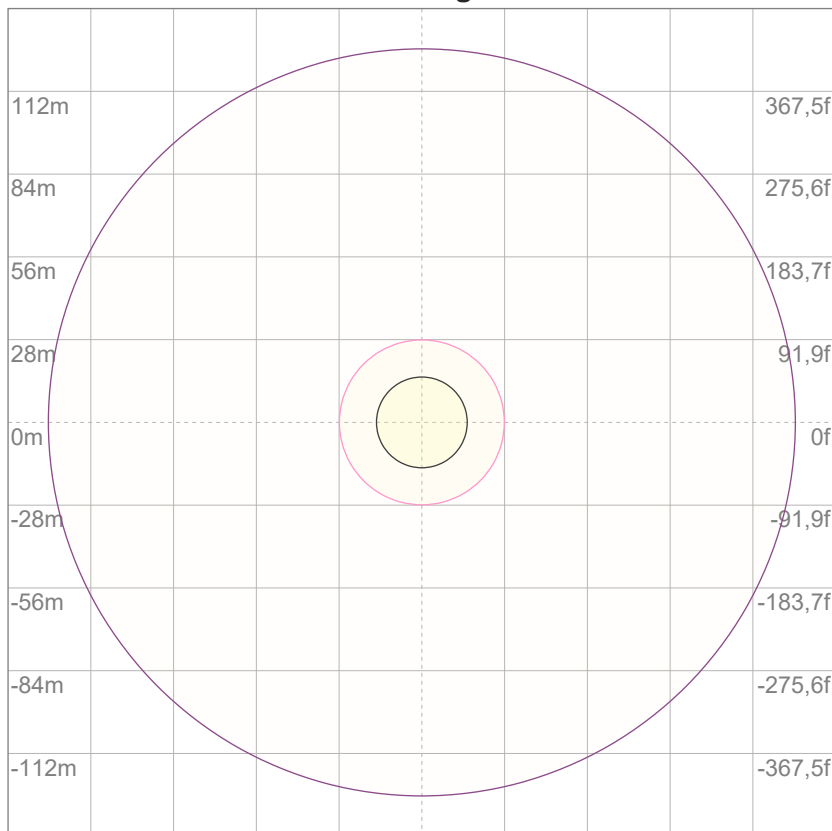
10%	89 cd
20%	177 cd
30%	266 cd
40%	355 cd
50%	444 cd
60%	532 cd
70%	621 cd
80%	710 cd
90%	799 cd

Conditions:

Number of c-planes: 12

Candela at center: 887 cd

iso-lux diagram



3%	0,266 lx
5%	0,444 lx
10%	0,887 lx
30%	2,66 lx
50%	4,44 lx

Conditions:

Number of c-planes: 12

Lux at center: 8,87 lx

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

Mounting height: 10 meters (33 feet)

Glare evaluation according to UGR

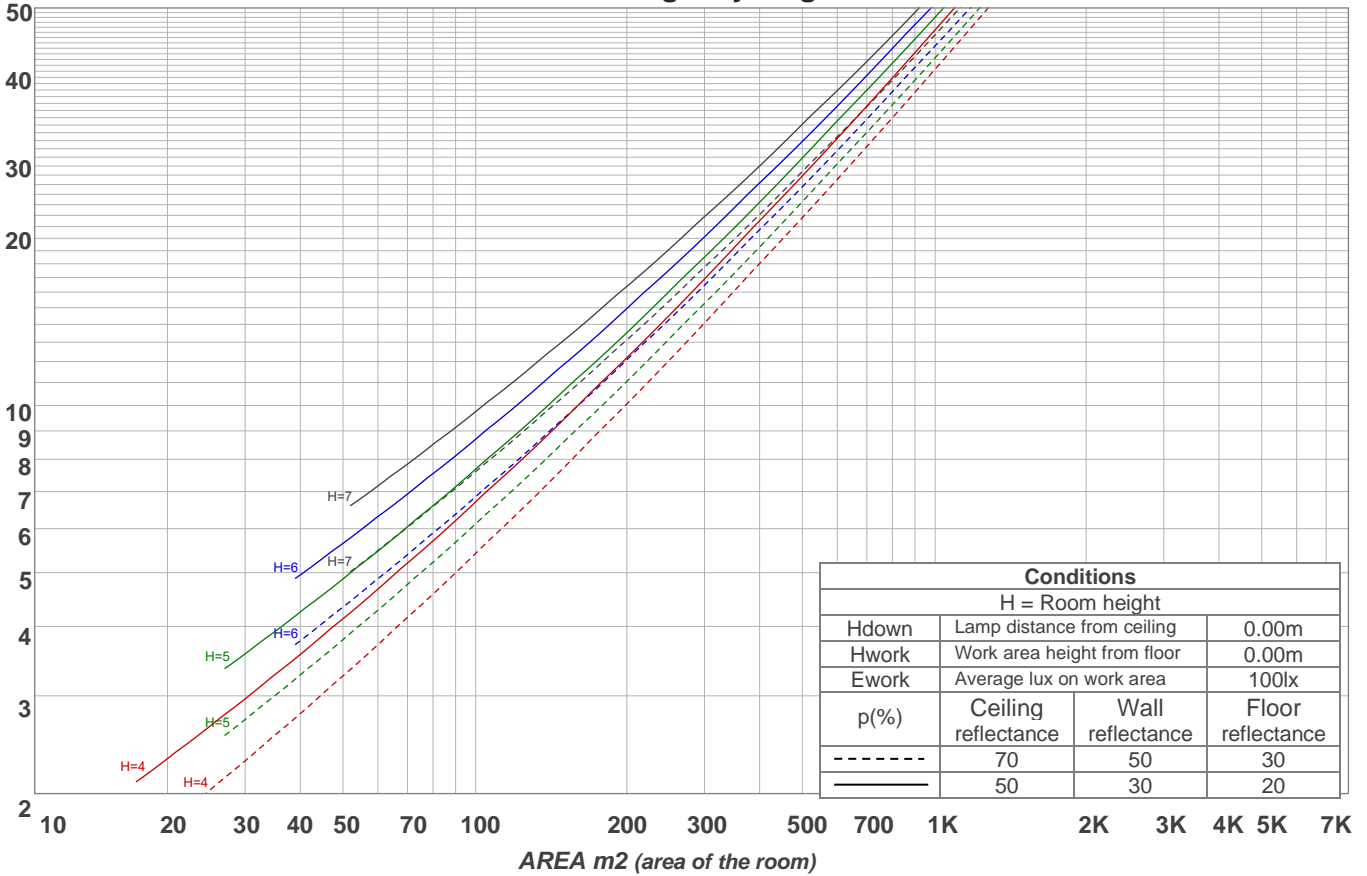
p Ceiling	70	70	50	50	30	70	70	50	50	30	
p Walls	50	30	50	30	30	50	30	50	30	30	
p Floor	20	20	20	20	20	20	20	20	20	20	
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis					
2H	2H	15,5	16,7	15,8	17,1	17,4	15,4	16,6	15,7	17,0	17,3
	3H	17,1	18,4	17,6	18,7	19,0	17,0	18,3	17,5	18,6	18,9
	4H	17,9	19,1	18,4	19,5	19,8	17,8	18,9	18,2	19,3	19,7
	6H	18,7	19,7	19,0	20,1	20,5	18,5	19,5	18,8	19,9	20,3
	8H	19,0	20,0	19,4	20,4	20,9	18,7	19,8	19,1	20,1	20,6
	12H	19,2	20,3	19,7	20,7	21,2	19,0	20,0	19,4	20,4	20,9
4H	2H	16,1	17,3	16,6	17,7	18,0	16,1	17,2	16,5	17,6	17,9
	3H	18,1	19,1	18,5	19,5	20,0	18,0	19,0	18,4	19,4	19,9
	4H	18,9	19,9	19,4	20,3	20,9	18,8	19,7	19,3	20,2	20,8
	6H	19,7	20,6	20,3	21,1	21,5	19,6	20,4	20,1	20,9	21,3
	8H	20,1	20,9	20,7	21,4	21,8	19,9	20,7	20,5	21,2	21,6
	12H	20,5	21,2	21,1	21,7	22,2	20,2	20,9	20,8	21,4	22,0
8H	4H	19,3	20,1	19,8	20,5	21,0	19,1	19,9	19,7	20,4	20,9
	6H	20,3	20,9	20,9	21,4	22,1	20,1	20,7	20,7	21,3	21,9
	8H	20,8	21,4	21,4	21,9	22,7	20,6	21,2	21,2	21,7	22,5
	12H	21,3	21,8	22,0	22,4	23,0	21,1	21,5	21,7	22,1	22,8
12H	4H	19,3	20,0	19,8	20,5	21,0	19,2	19,8	19,7	20,3	20,9
	6H	20,4	21,0	21,0	21,5	22,3	20,3	20,8	20,8	21,4	22,1
	8H	21,0	21,4	21,6	22,0	22,7	20,8	21,2	21,4	21,8	22,5
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 / -0,1					0,1 / -0,1					
S = 2.0H	0,3 / -0,3					0,3 / -0,3					
CIE 117-1995. Corrected glare indices referring to 2775 lm total luminous flux											

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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96			
1	107	102	97	93	103	99	95	91	94	90	87	89	86	84	85	82	80	78			
2	97	88	81	75	94	86	79	74	81	76	71	77	73	69	74	70	67	64			
3	88	77	69	62	85	75	67	61	71	65	59	68	62	58	65	60	56	54			
4	80	68	59	52	78	66	58	51	63	56	50	60	54	49	58	52	48	46			
5	74	61	51	45	71	59	51	44	57	49	43	54	48	42	52	46	42	39			
6	68	55	45	39	66	53	45	39	51	43	38	49	42	37	47	41	36	34			
7	63	49	41	34	61	48	40	34	46	39	33	45	38	33	43	37	32	30			
8	59	45	36	31	57	44	36	30	42	35	30	41	34	29	39	33	29	27			
9	55	41	33	27	53	41	33	27	39	32	27	38	31	26	36	30	26	24			
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	34	28	24	22			

LAMPS (number of lamps)

Luminaire budgetary diagram



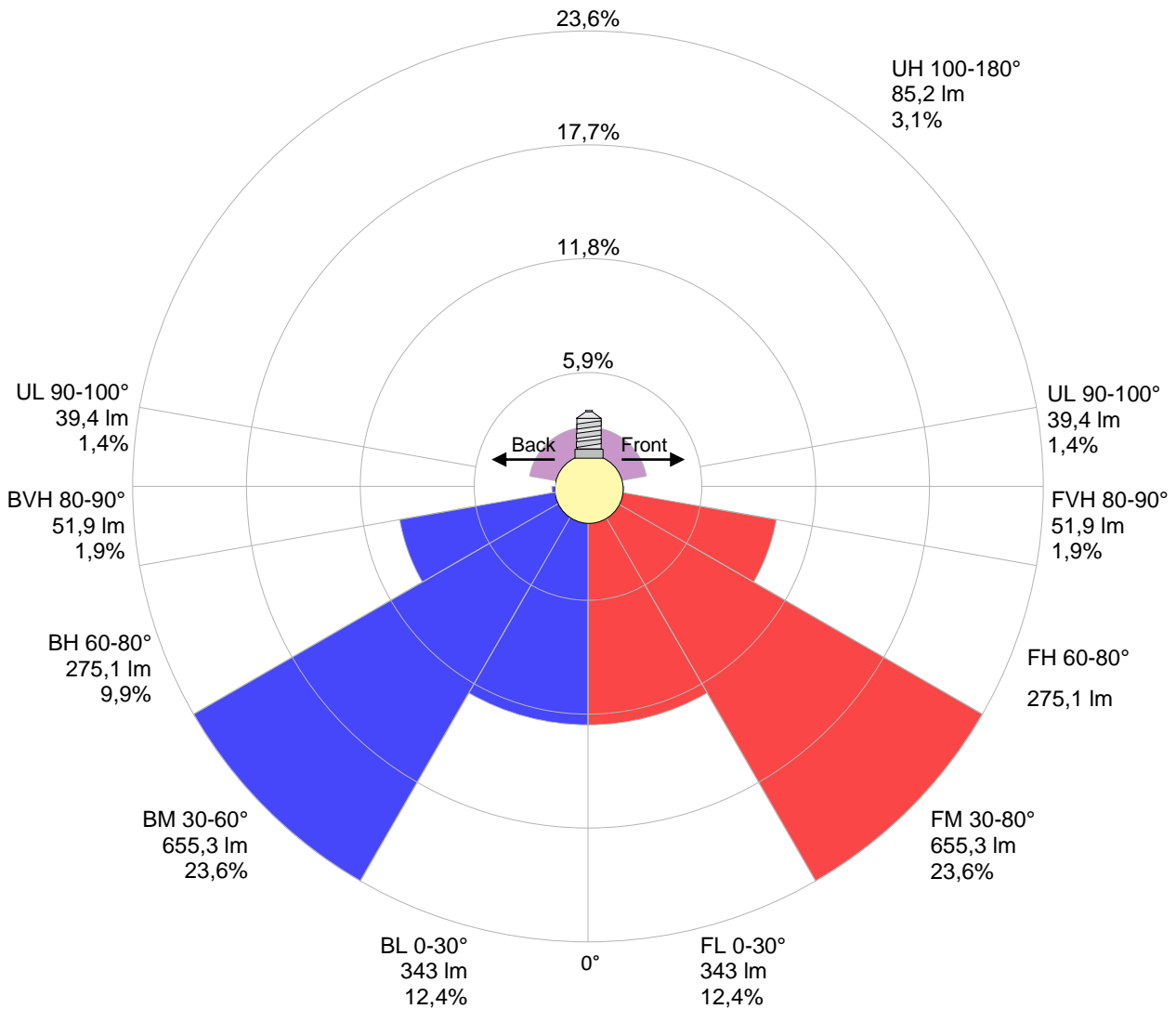
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	240 lm	362 lm	437 lm	456 lm	418 lm	334 lm	217 lm	104 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
39,2 lm	26,2 lm	22,4 lm	15,6 lm	9,64 lm	5,42 lm	3,61 lm	1,85 lm	0,553 lm

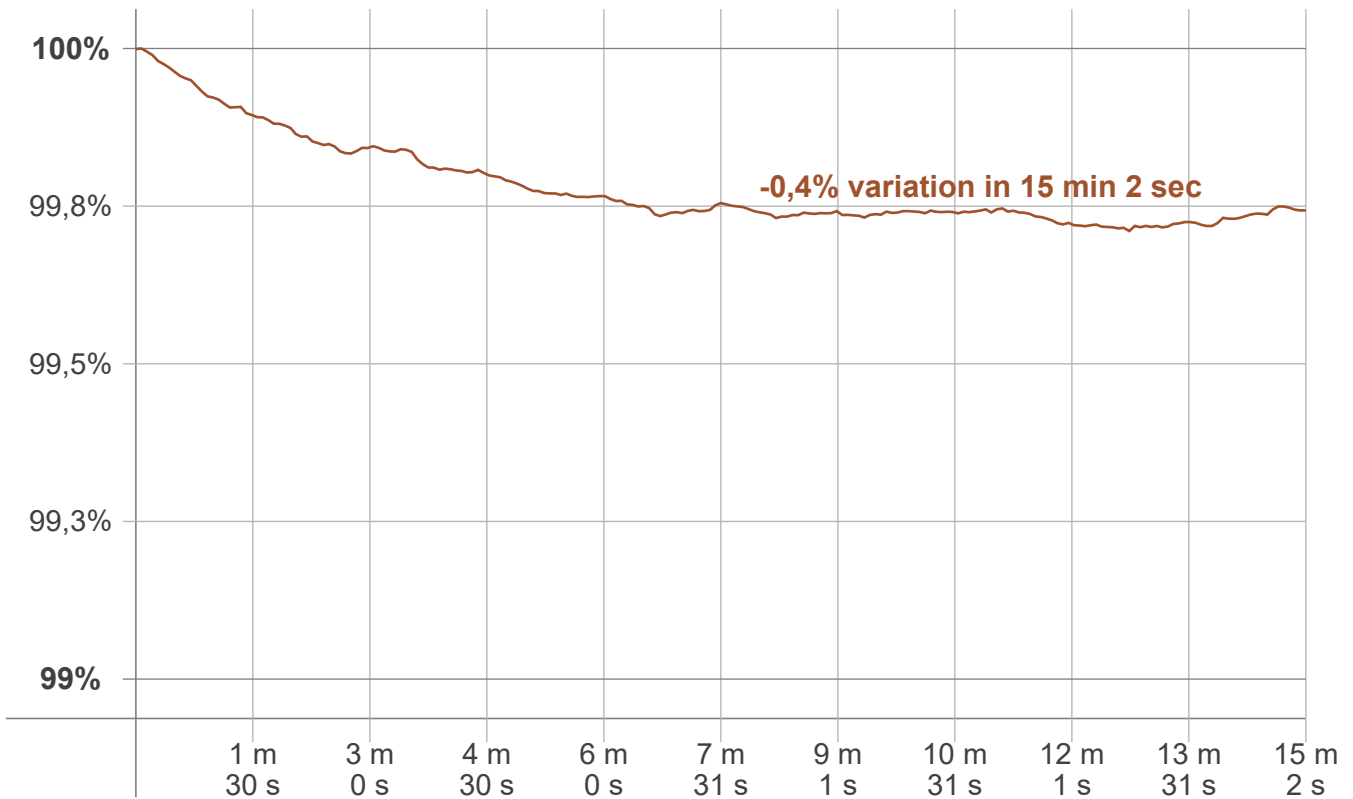
LCS table

BUG rating:	B1 U3 G1	
Forward light	Lumens	Lumens %
Low(0-30):	343	12,4%
Medium(30-60):	655,3	23,6%
High(60-80):	275,1	9,9%
Very high(80-90):	51,9	1,9%
Back light		
Low(0-30):	343	12,4%
Medium(30-60):	655,3	23,6%
High(60-80):	275,1	9,9%
Very high(80-90):	51,9	1,9%
Uplight		
Low(90-100):	39,4	1,4%
High(100-180):	85,2	3,1%

LCS graph



Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 2 sec
Warmup variation	-0,4%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2998 K	+2 K	3000 K

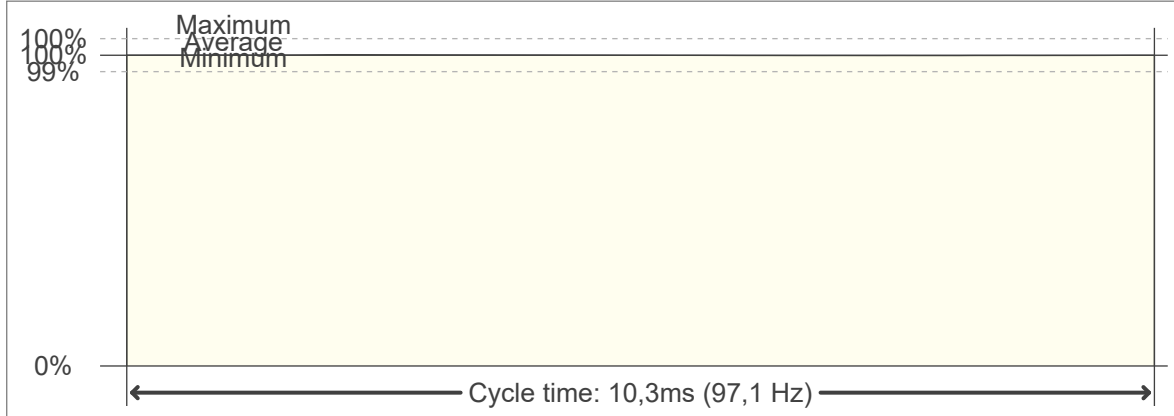
Output change

Output start	Output change	Output end
2783 lm	-8 lm	2775 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:		97,09 Hz	
Flicker index:	0	JA8/10 40Hz	0,02 %
Flicker percentage:	0,19 %	JA8/10 90Hz	0,03 %
SVM: (Visual flicker)	0	JA8/10 200Hz	0,15 %
PstLM	0,01	JA8/10 400Hz	0,16 %
Mp	0,01	JA8/10 1000Hz	0,19 %

Flicker conditions:

Sample rate:	20000 samples/second
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