

Light efficiency:



Light quality:



Color temperature:



Output: 6698 lm

Peak: 4348 cd

Power: 105 W

PF: 0,97



Product name:

Brite

Item number:

Brite

Date and time:

09-07-2018 09:38:23

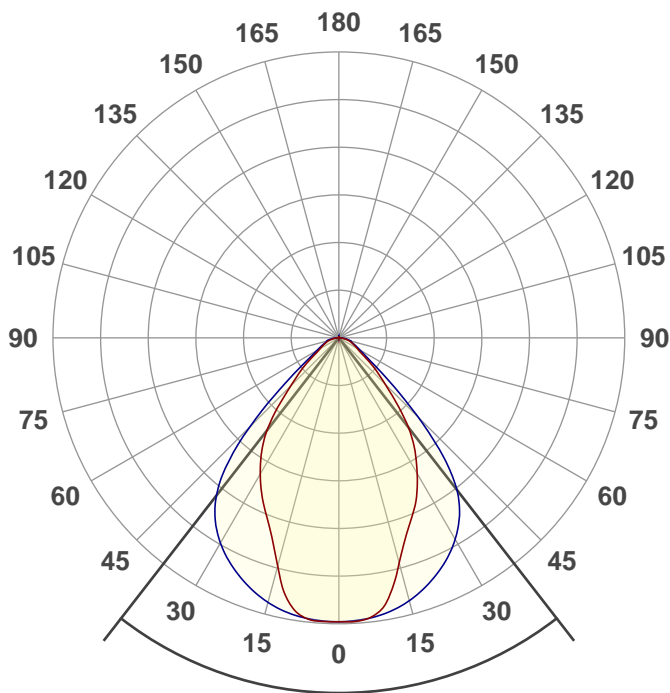
Description:

The Brite consists of 2 panels with a strip of LED's beneath.

The Brite was measured in 8 different planes to take into account for any possible stray light.

The 8 planes are sufficient for interpolating between point and give a very accurate result.

The measurement was done with the highest possible light setting on the lamp.

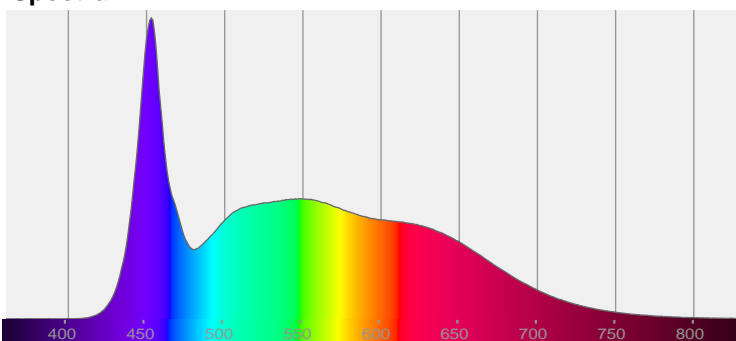


Beam angle **75,7°**

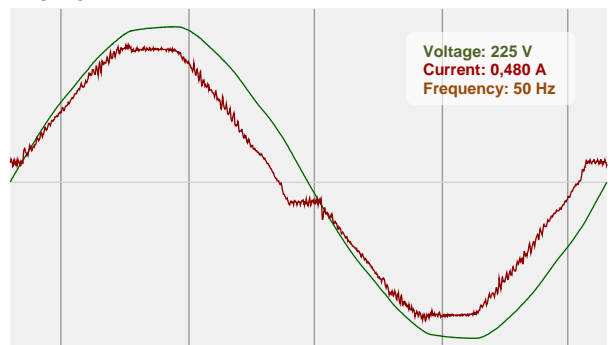


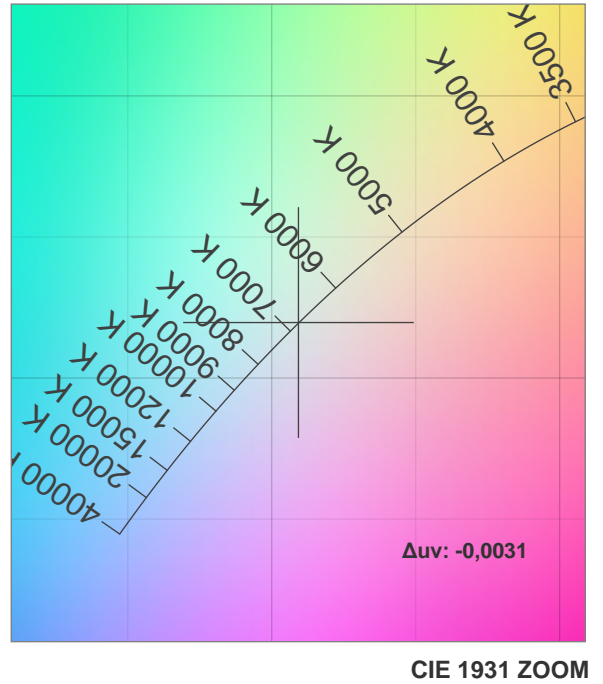
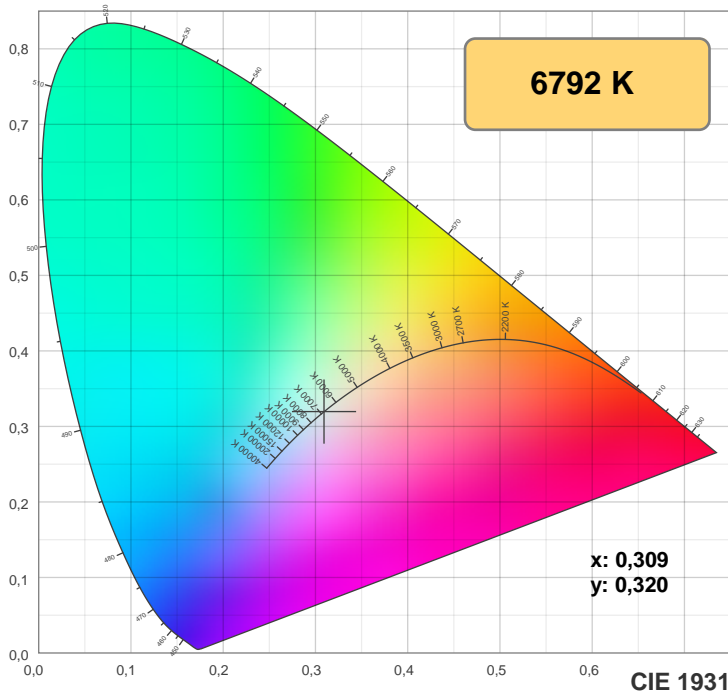
CIE 1931
x: 0,309
y: 0,320

Spectra

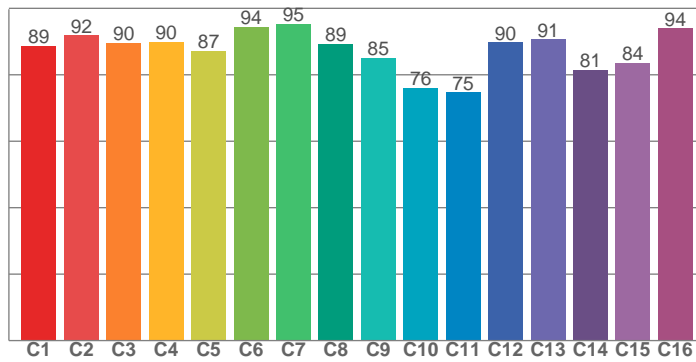


Power

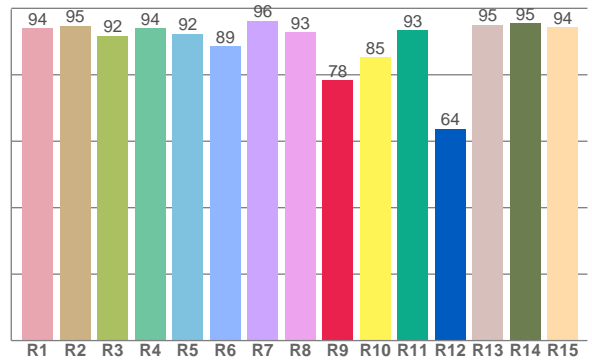




TM30: 87,7



CRI: 93,1 (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
94,0	94,7	91,7	94,0	92,4	88,7	96,2	92,8	78,3	85,4	93,3	63,7	95,1	95,5	94,2

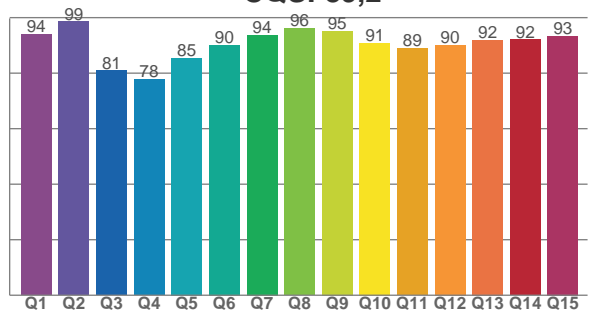
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,7	91,8	89,7	89,9	87,2	94,4	95,3	89,4	85,1	76,0	74,7	89,7	90,6	81,5	83,7	94,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
94,0	98,5	80,9	77,8	85,5	90,2	93,7	96,2	95,2	90,9	88,9	90,1	92,0	92,1	93,3

CQS: 89,2



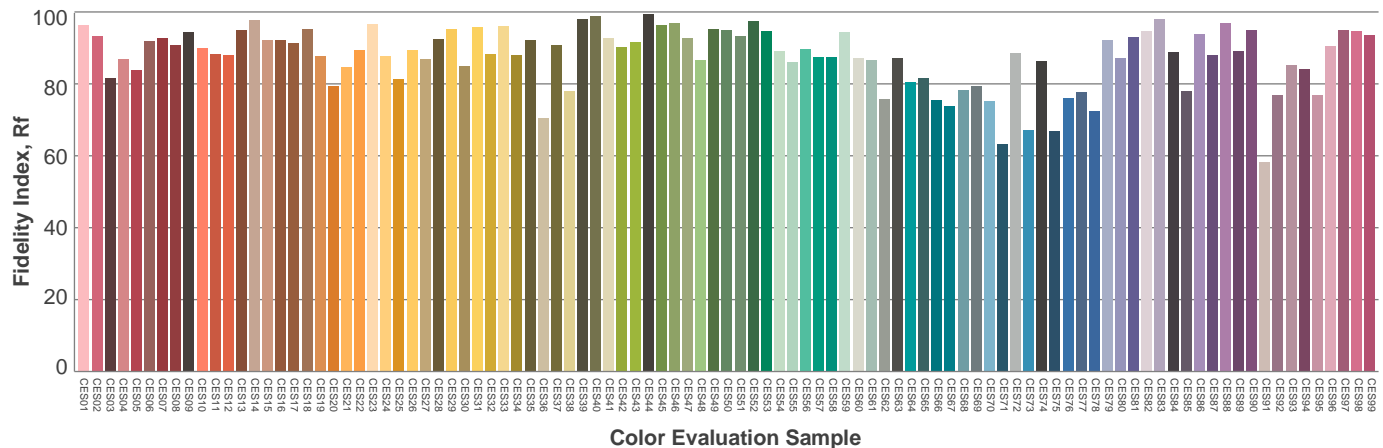
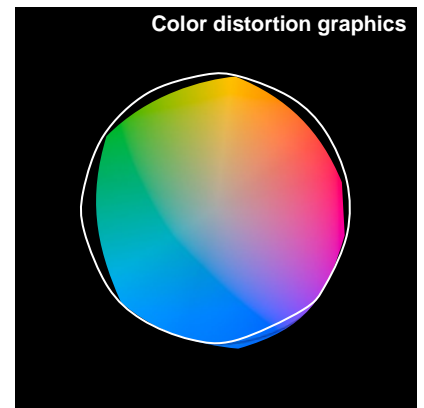
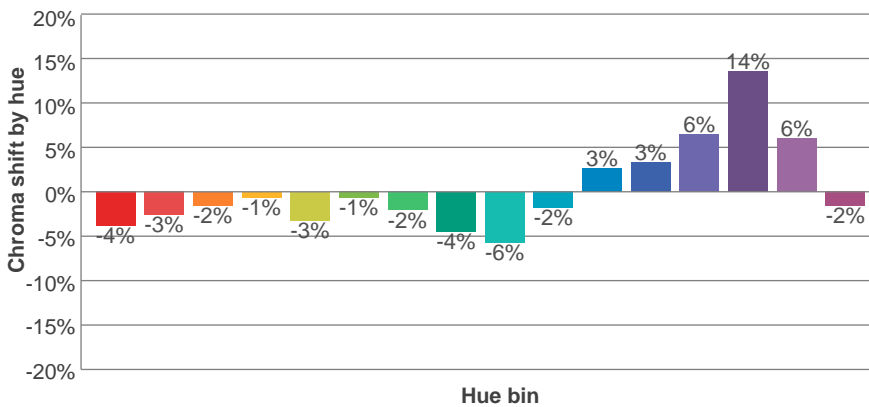
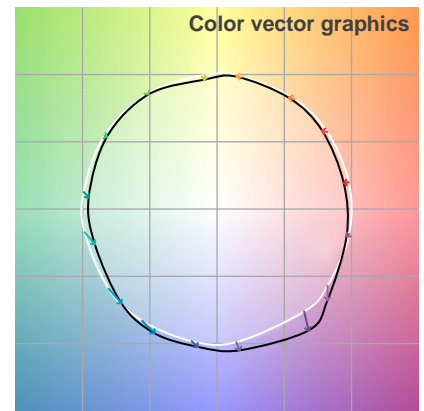
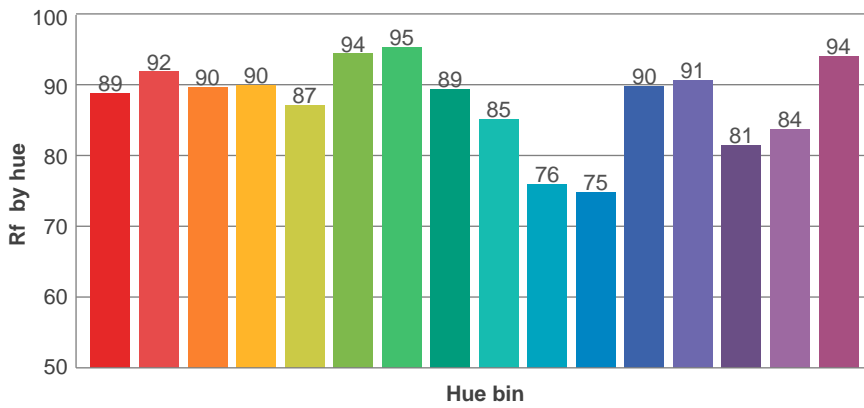
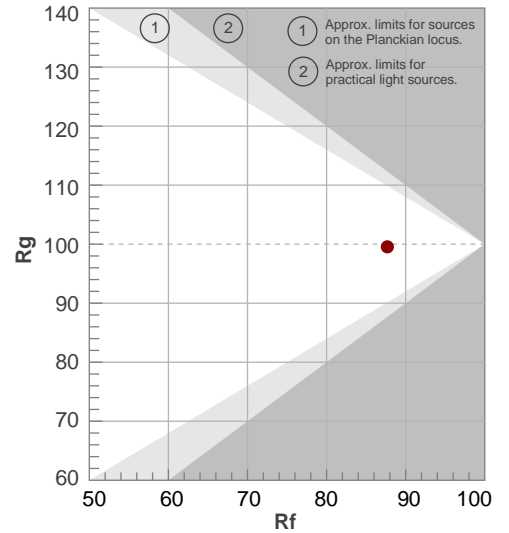
Color parameters

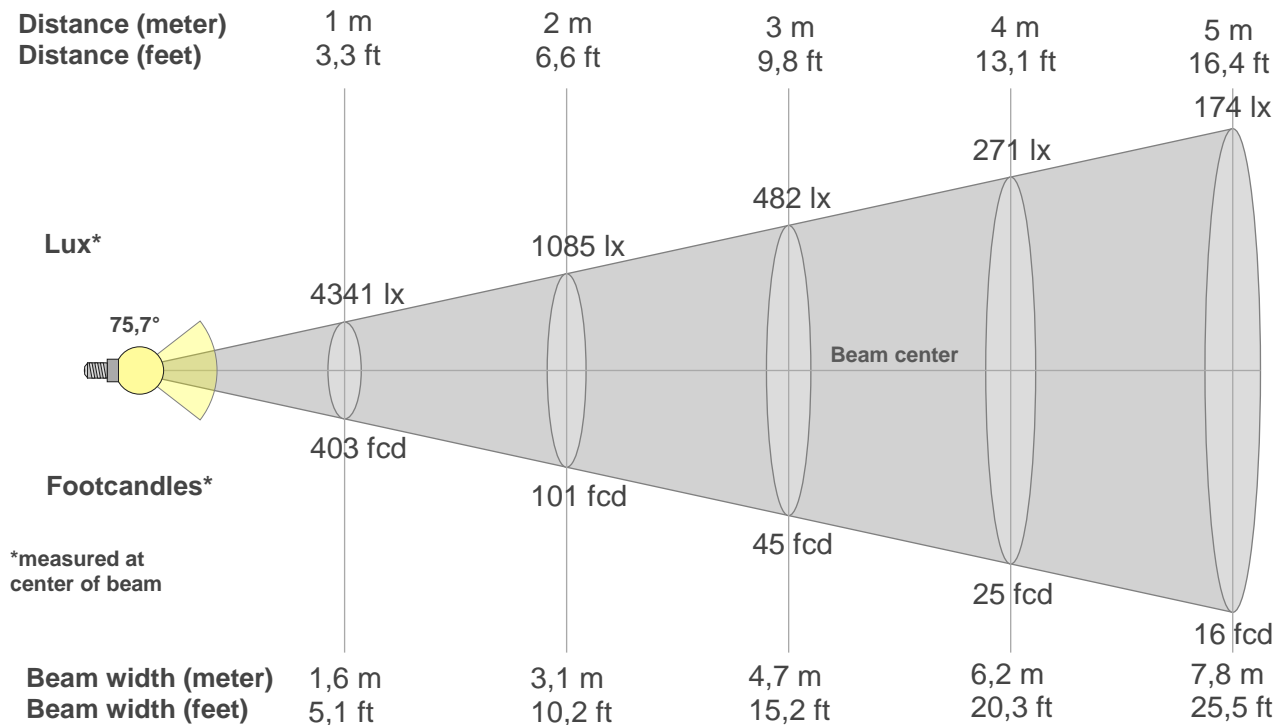
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6792 K	93,1	78,3	87,7	99,5	89,2	0,309	0,320	0,199	0,308	-0,0031

Rf 87,7
Fidelity index Rf

Rg 99,5
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	-4%	0%
2	92	-3%	3%
3	90	-2%	4%
4	90	-1%	4%
5	87	-3%	1%
6	94	-1%	0%
7	95	-2%	-1%
8	89	-4%	3%
9	85	-6%	10%
10	76	-2%	15%
11	75	3%	13%
12	90	3%	5%
13	91	6%	1%
14	81	14%	-5%
15	84	6%	-9%
16	94	-2%	-2%





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
4341lx	1085lx	482lx	271lx	174lx	121lx	89lx	68lx	54lx	43lx	36lx	30lx	26lx	22lx	19lx	17lx	15lx	13lx	12lx	11lx
403,3fc	100,8fc	44,8fcd	25,2fcd	16,1fcd	11,2fcd	8,2fcd	6,3fcd	5fcd	4fcd	3,3fcd	2,8fcd	2,4fcd	2,1fcd	1,8fcd	1,6fcd	1,4fcd	1,2fcd	1,1fcd	1fcd

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°
4341	4324	4122	3572	3109	2780	2397	1997	1498	1008	694	445	324	255	201	150	93	34	3	1
100%	100%	95%	82%	72%	64%	55%	46%	35%	23%	16%	10%	7%	6%	5%	3%	2%	1%	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°
4341	4322	4268	4161	4005	3809	3555	3219	2627	1726	945	545	374	285	218	192	131	69	12	2
100%	100%	98%	96%	92%	88%	82%	74%	61%	40%	22%	13%	9%	7%	5%	4%	3%	2%	0%	0%

Intensities in 180° c-plane

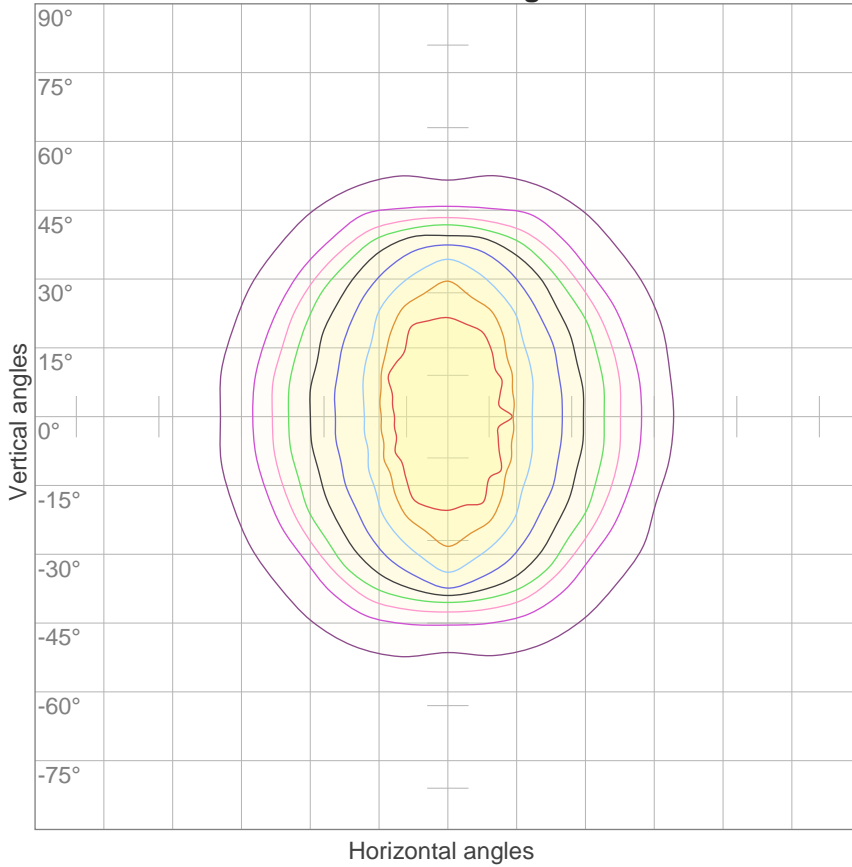
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
4341	4337	4157	3617	3103	2751	2405	2034	1563	1052	726	465	330	259	205	156	100	41	4	1
100%	100%	96%	83%	71%	63%	55%	47%	36%	24%	17%	11%	8%	6%	5%	4%	2%	1%	0%	0%

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°
4341	4329	4282	4189	4042	3856	3621	3298	2792	1932	1049	588	393	294	226	194	139	86	14	2
100%	100%	99%	97%	93%	89%	83%	76%	64%	44%	24%	14%	9%	7%	5%	4%	3%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75,7°	115,9°	161,2°	91,8%	77,3%

ISO candela diagram



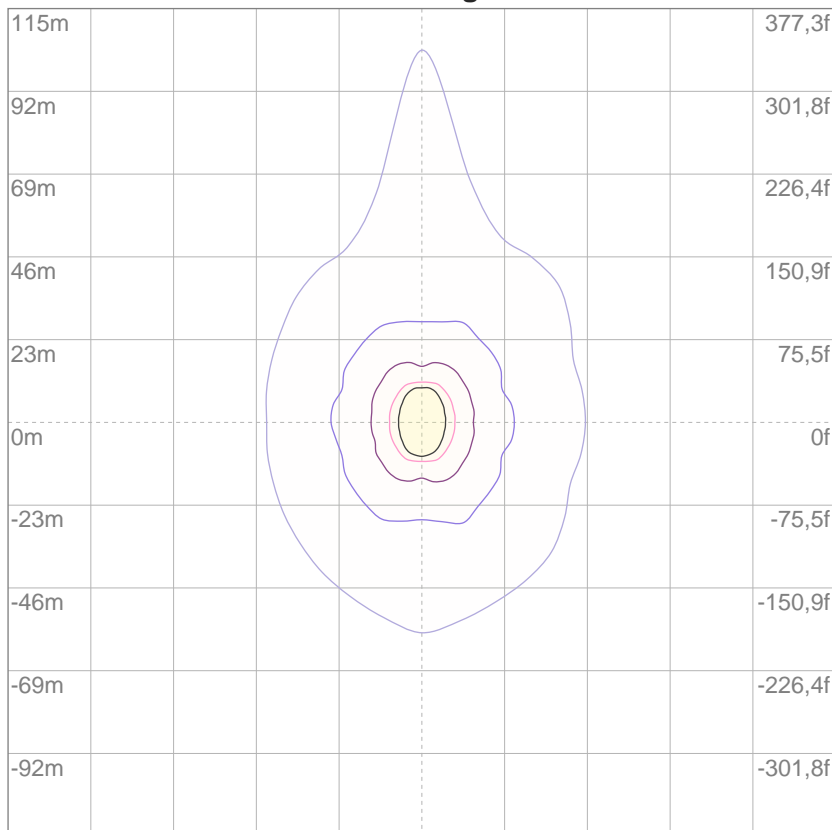
10%	434 cd
20%	868 cd
30%	1302 cd
40%	1736 cd
50%	2170 cd
60%	2605 cd
70%	3039 cd
80%	3473 cd
90%	3907 cd

Conditions:

Number of c-planes: 16

Candela at center: 4341 cd

ISO lux diagram



3%	1,30 lx
5%	2,17 lx
10%	4,34 lx
30%	13,0 lx
50%	21,7 lx

Conditions:

Number of c-planes: 16

Lux at center: 43,4 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	16,1	17,1	16,4	17,4	17,6	18,2	19,2	18,5	19,4	19,7
	3H	16,7	17,6	17,1	17,9	18,2	18,6	19,5	18,9	19,8	20,0
	4H	17,1	17,9	17,4	18,2	18,5	18,9	19,7	19,2	20,0	20,3
	6H	17,4	18,2	17,7	18,5	18,8	19,2	20,0	19,6	20,3	20,6
	8H	17,5	18,2	17,8	18,5	18,9	19,3	20,1	19,7	20,4	20,7
	12H	17,5	18,2	17,9	18,6	18,9	19,5	20,2	19,8	20,5	20,8
4H	2H	16,4	17,3	16,8	17,6	17,8	18,3	19,1	18,6	19,4	19,7
	3H	17,2	17,9	17,6	18,3	18,6	18,9	19,6	19,2	19,9	20,2
	4H	17,7	18,3	18,1	18,7	19,1	19,3	19,9	19,7	20,3	20,6
	6H	18,2	18,7	18,6	19,1	19,5	19,8	20,3	20,2	20,7	21,1
	8H	18,3	18,8	18,8	19,2	19,6	20,0	20,5	20,4	20,9	21,3
	12H	18,4	18,9	18,9	19,3	19,7	20,2	20,6	20,6	21,0	21,4
8H	4H	18,0	18,5	18,4	18,8	19,3	19,4	19,9	19,9	20,3	20,7
	6H	18,6	19,0	19,0	19,4	19,9	20,0	20,4	20,5	20,8	21,3
	8H	18,8	19,1	19,3	19,6	20,1	20,3	20,6	20,8	21,1	21,6
	12H	18,9	19,2	19,4	19,7	20,2	20,6	20,9	21,1	21,3	21,8
12H	4H	18,0	18,4	18,4	18,8	19,3	19,4	19,9	19,9	20,3	20,7
	6H	18,6	19,0	19,1	19,4	19,9	20,0	20,4	20,5	20,8	21,3
	8H	18,9	19,2	19,4	19,7	20,2	20,4	20,7	20,9	21,1	21,6
Variation of the observer position for the luminaire distance S											
S = 1,0H	+0,7 / -0,8					+0,6 / -1,0					
S = 1,5H	+1,1 / -1,2					+1,8 / -1,5					
S = 2,0H	+2,0 / -1,6					+3,2 / -1,9					
Standard table	BK04					BK03					
Correction summand	1,1					2,2					
Corrected glare indices referring to 6698 lm total luminous flux											

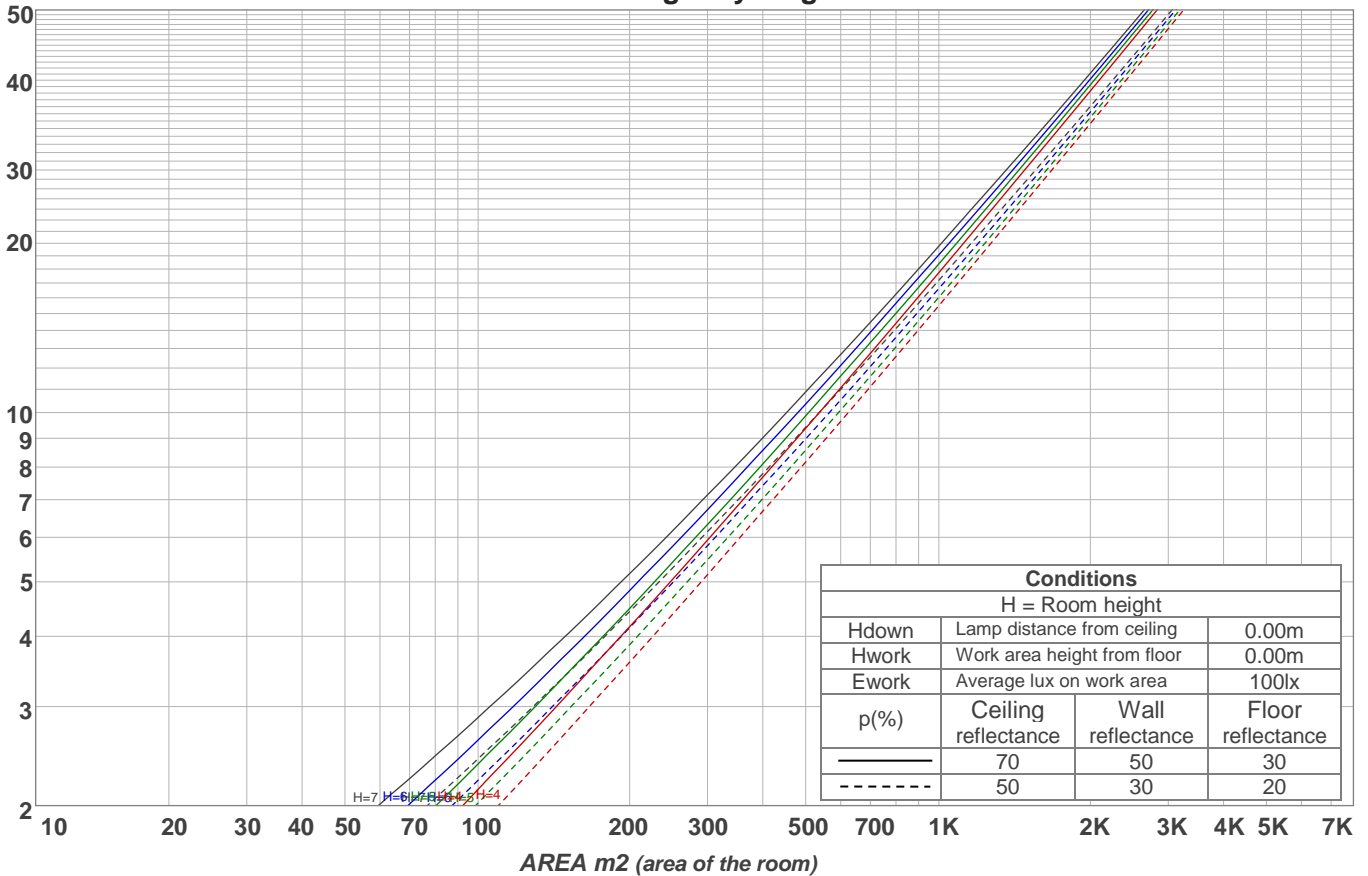
UGR data could be incorrect as lamp output is not symmetrical. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	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	102	102	102	100	
1	111	108	104	101	109	105	102	100	101	99	96	97	95	93	94	92	91	89	
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	80	79	
3	96	88	82	76	94	87	80	76	84	79	74	81	77	73	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	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56	
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	
7	74	62	55	49	72	61	54	49	60	54	49	58	53	49	57	52	48	46	
8	69	57	50	45	68	57	50	45	56	49	45	54	49	44	53	48	44	43	
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39	
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	36	

LAMPS (number of lamps)

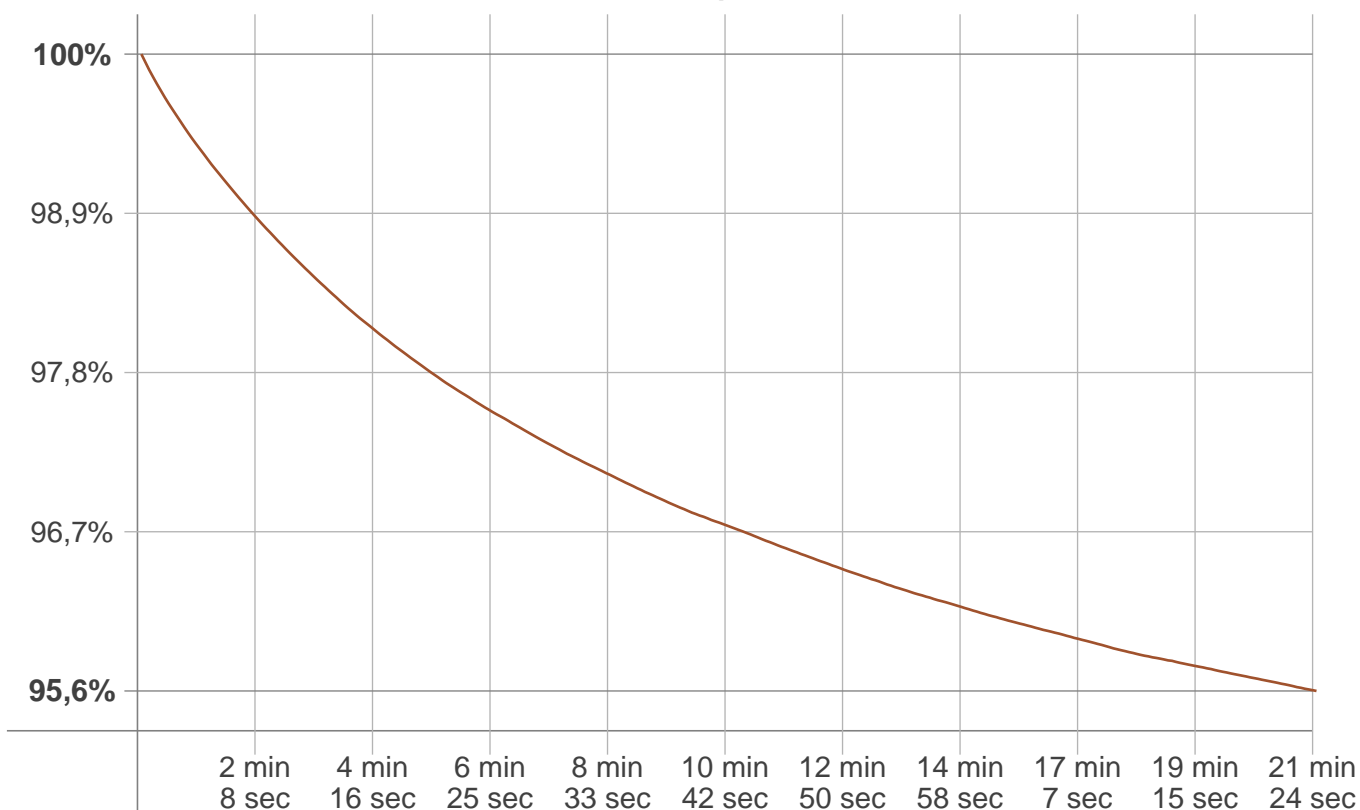
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
411 lm	1105 lm	1482 lm	1540 lm	1090 lm	520 lm	282 lm	176 lm	60,1 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,56 lm	2,18 lm	3,38 lm	4,63 lm	5,45 lm	5,51 lm	4,83 lm	3,30 lm	1,18 lm

Warmup curve



Warmup result

Warmup time:	21 min 28 sec
Warmup variation	-4,5%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
6710 K	+82 K	6792 K

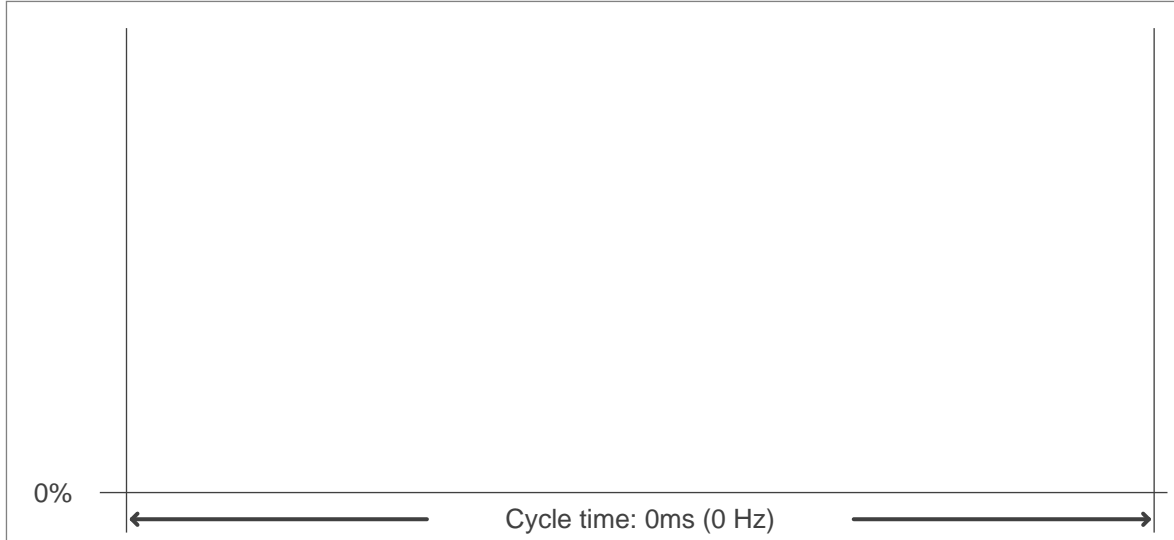
Output change

Output start	Output change	Output end
7001 lm	-303 lm	6698 lm

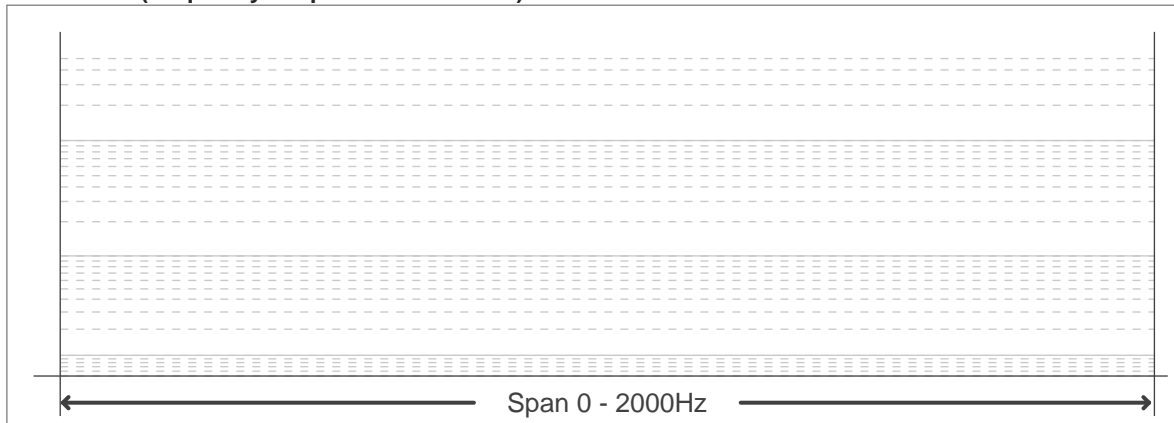
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:	n/a Hz
Flicker index:	n/a
Flicker percentage:	n/a %
SVM: (Visual flicker)	n/a

Flicker conditions:

Sample rate:	60.000 samples/second
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