

Light efficiency:

5 Lumen/Watt

Light quality:

CRI: 0.0

Color temperature:

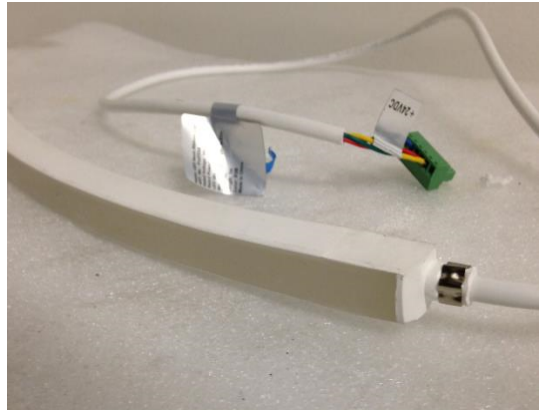
0 K

Output: 11.1 lm

Peak: 3.34 cd

Power: 2.2 W

PF: 0.41



Product name:

Flex Tube SE RGB

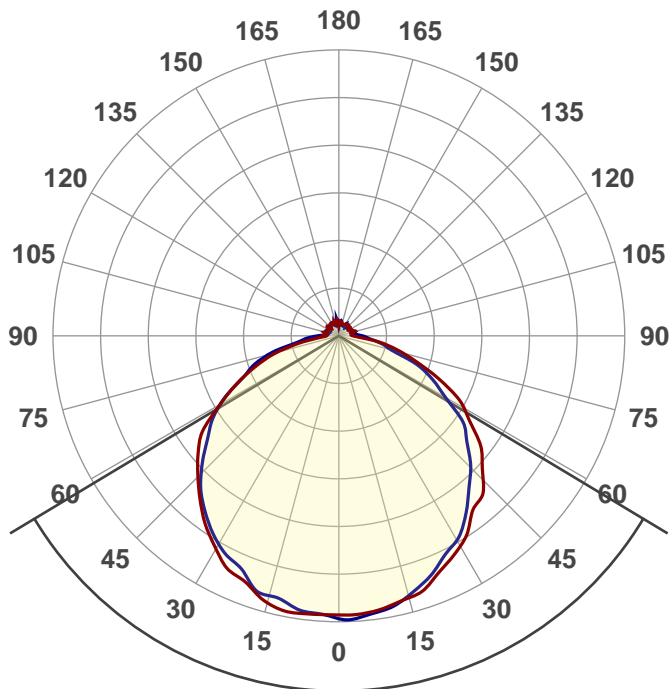
Item number:

Blue

Date:

6/6/2017

Description:



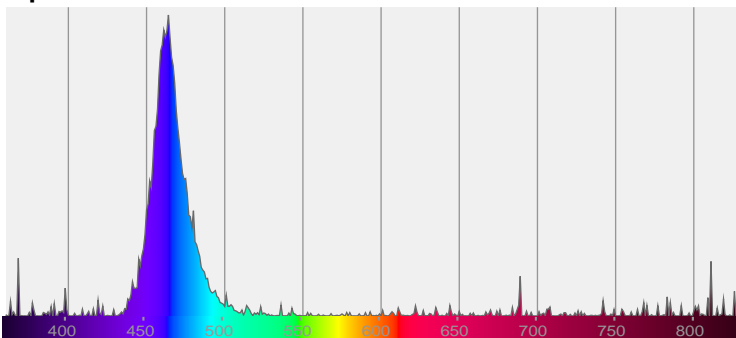
Beam angle

118°

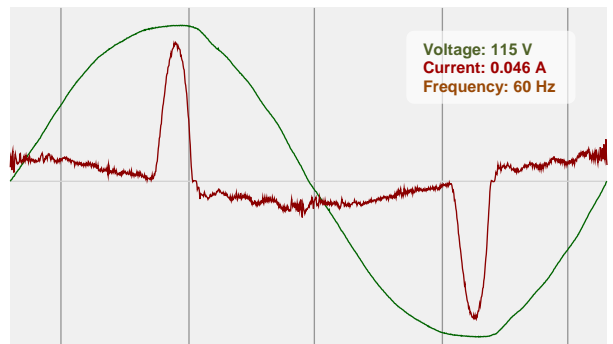


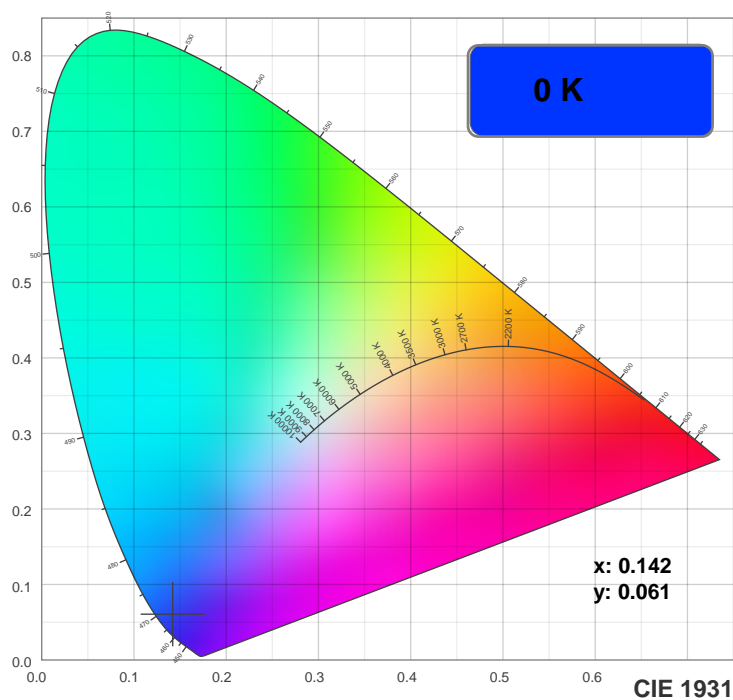
CIE 1931
x: 0.142
y: 0.061

Spectra

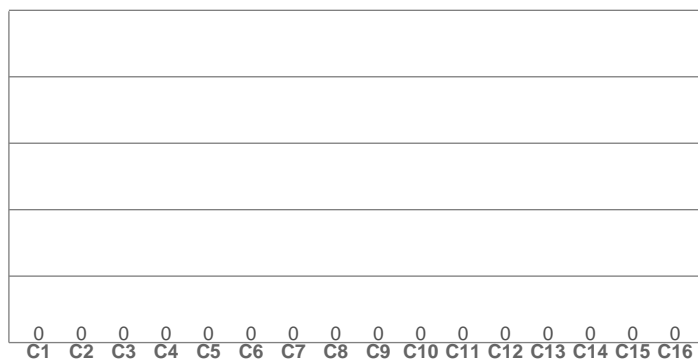


Power





TM30: 0.0



CRI R values, only R1-R8 are used to calculate final CRI value

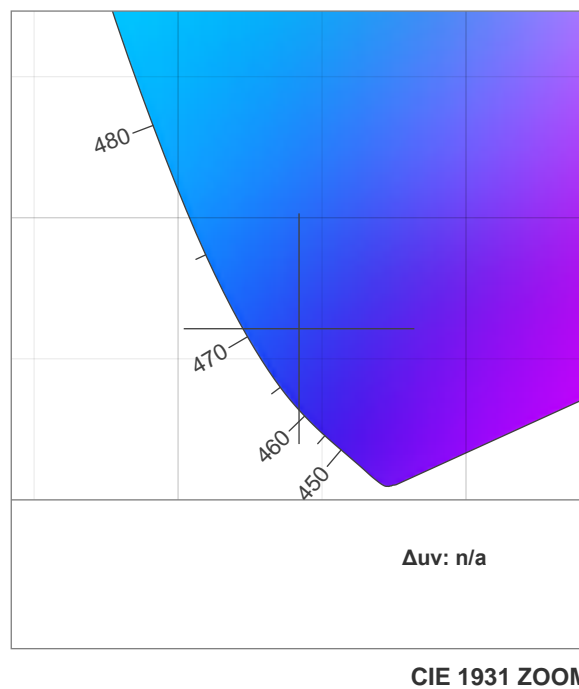
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

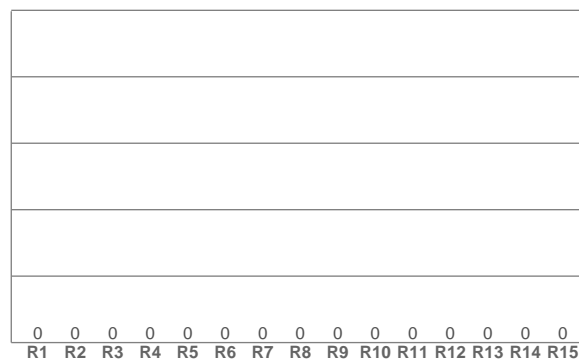
C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

CQS Q values

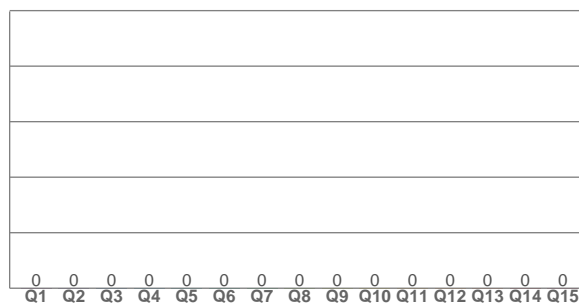
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



CRI: 0.0 (R1-R8)



CQS: 0.0



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
0 K	0.0	0.0	0.0	0.0	0.0	0.142	0.061	0.165	0.106	n/a

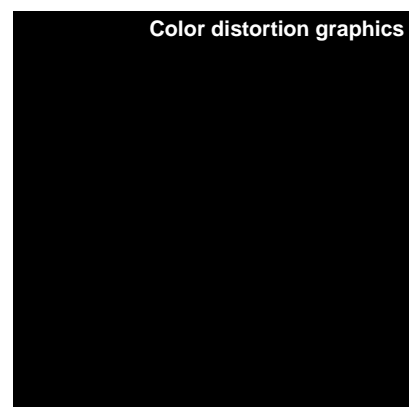
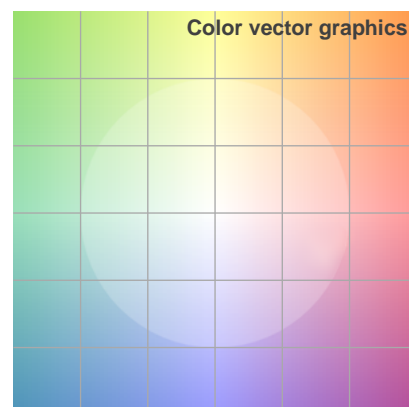
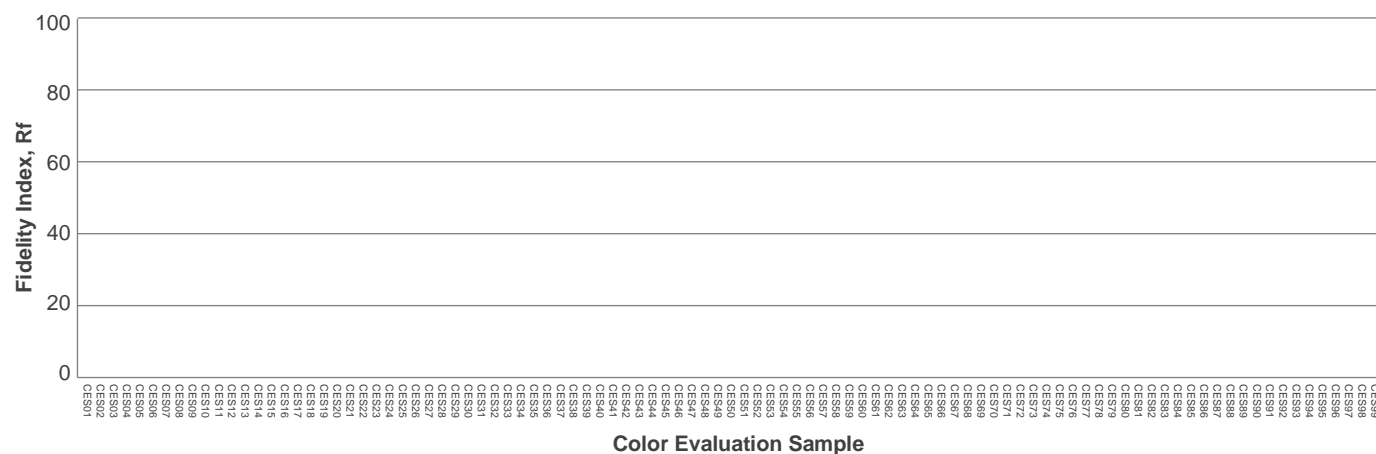
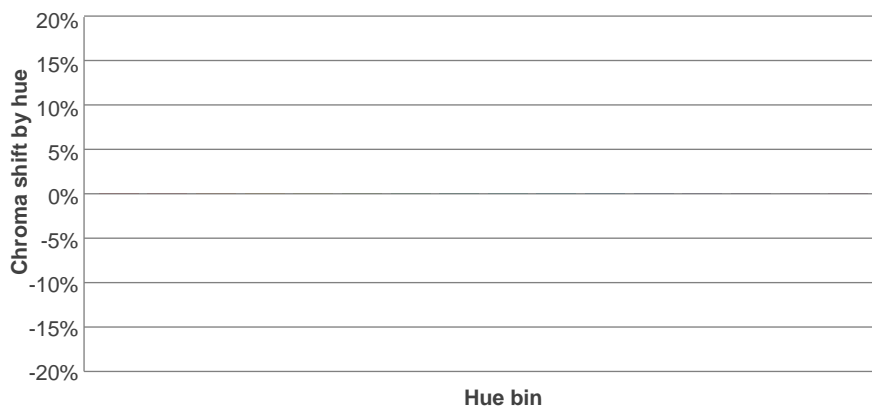
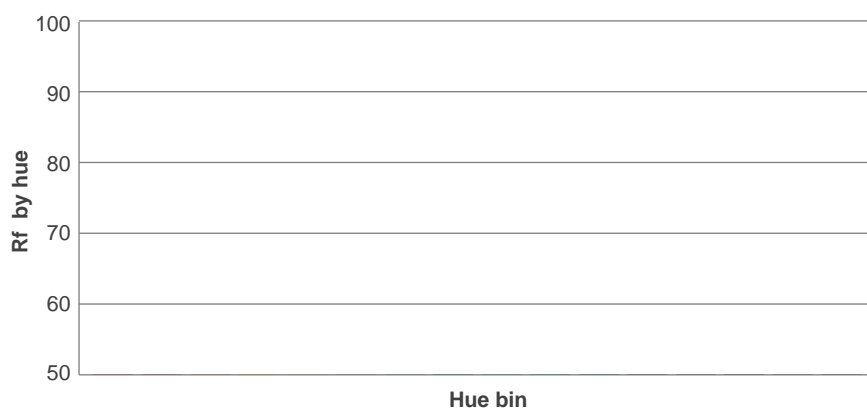
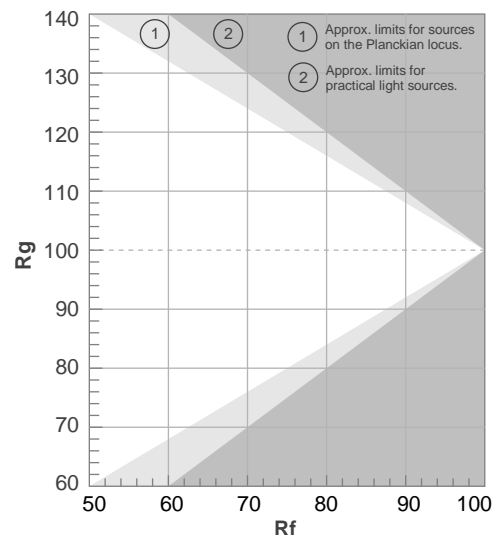
Rf 0.0

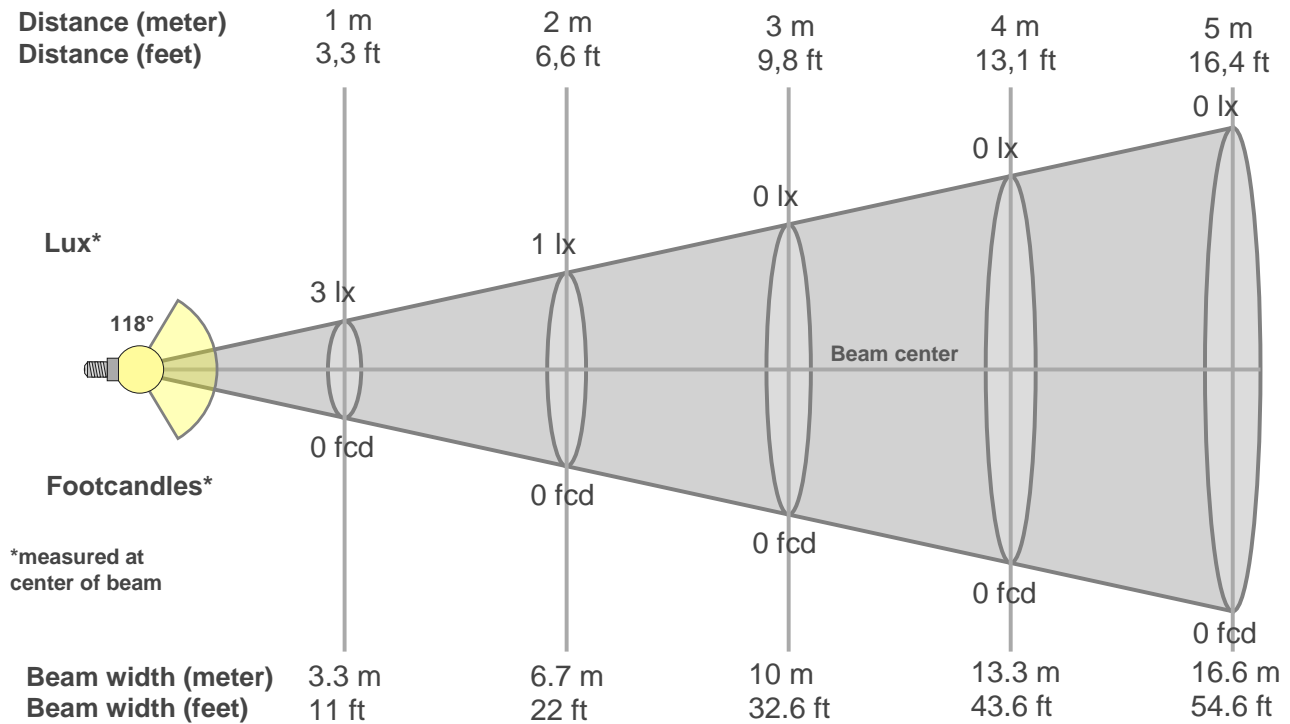
Fidelity index Rf

Rg 0.0

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%





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
3lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
0.3fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
3.30	3.27	3.24	3.18	3.10	2.97	2.85	2.69	2.55	2.40	2.19	1.95	1.69	1.40	1.06	0.78	0.54	0.29	0.17	0.15
100%	99%	98%	97%	94%	90%	86%	81%	77%	73%	66%	59%	51%	42%	32%	24%	16%	9%	5%	5%

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°
3.30	3.31	3.26	3.16	3.04	2.89	2.77	2.59	2.38	2.19	1.97	1.78	1.45	1.22	0.97	0.64	0.50	0.36	0.28	0.21
100%	100%	99%	96%	92%	88%	84%	78%	72%	66%	60%	54%	44%	37%	29%	19%	15%	11%	9%	6%

Intensities in 180° c-plane

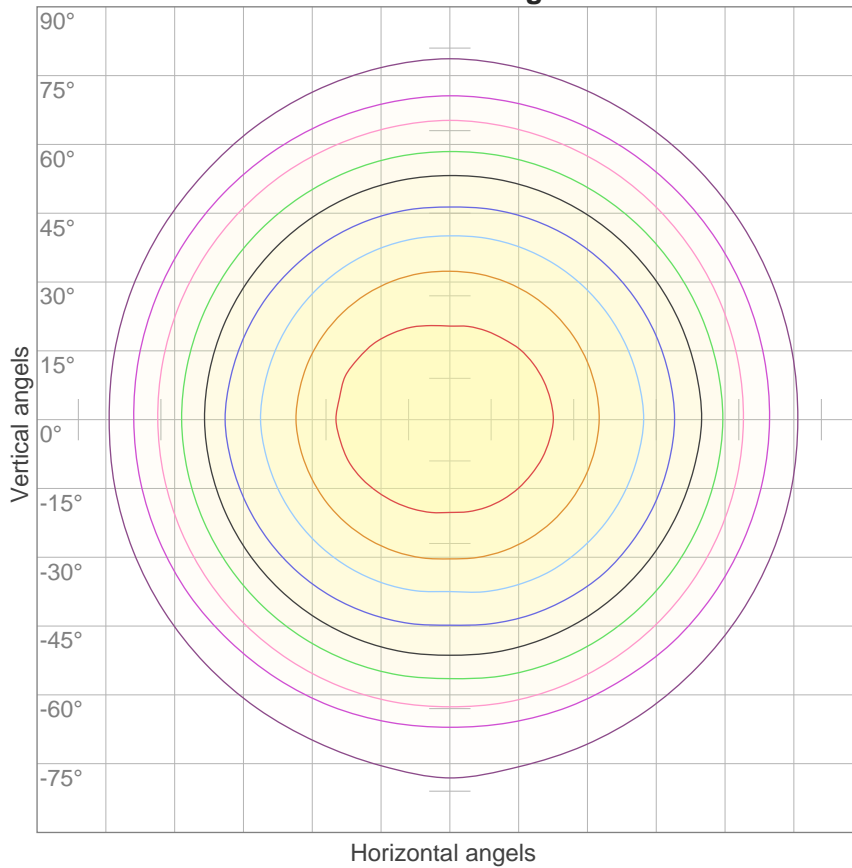
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
3.30	3.29	3.29	3.24	3.12	3.04	2.89	2.73	2.53	2.34	2.16	1.96	1.61	1.32	1.03	0.76	0.46	0.23	0.15	0.17
100%	100%	100%	98%	94%	92%	88%	83%	77%	71%	65%	59%	49%	40%	31%	23%	14%	7%	5%	5%

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°
3.30	3.27	3.22	3.16	3.07	2.93	2.82	2.67	2.50	2.29	2.05	1.84	1.60	1.32	1.10	0.86	0.56	0.40	0.25	0.15
100%	99%	98%	96%	93%	89%	86%	81%	76%	69%	62%	56%	49%	40%	33%	26%	17%	12%	8%	5%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
118°	170.3°	360°	0.7%	0.5%

ISO candela diagram



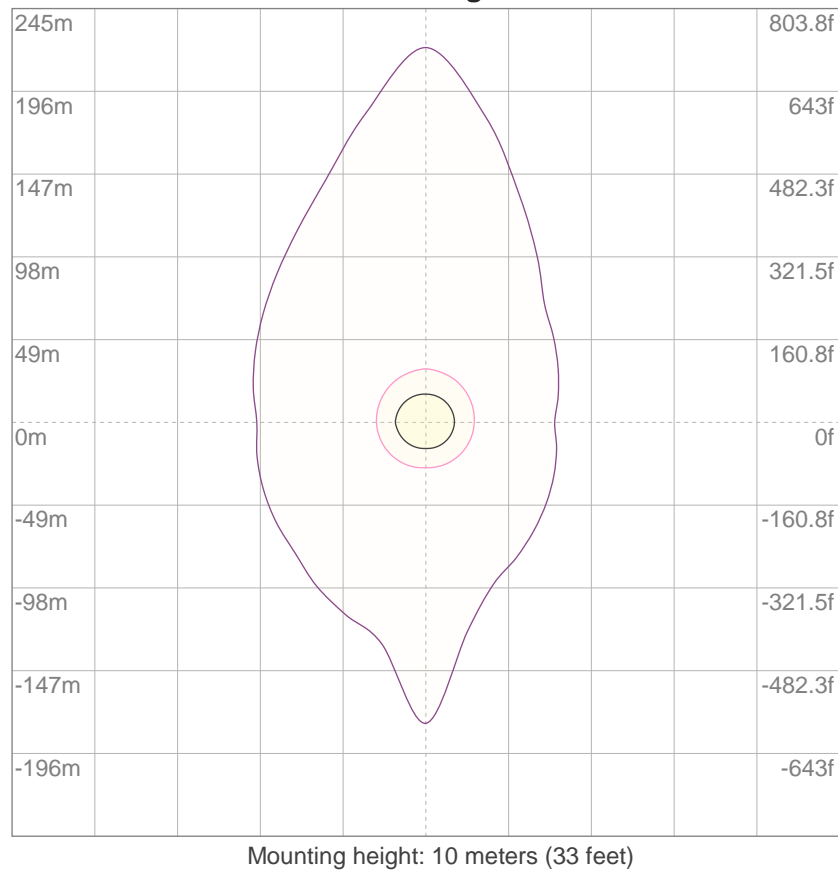
10%	0 cd
20%	1 cd
30%	1 cd
40%	1 cd
50%	2 cd
60%	2 cd
70%	2 cd
80%	3 cd
90%	3 cd

Conditions:

Number of c-planes: 4

Candela at center: 3 cd

ISO lux diagram



3%	990u lx
5%	1.65m lx
10%	3.30m lx
30%	9.90m lx
50%	16.5m lx

Conditions:

Number of c-planes: 4

Lux at center: 33.0m 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	25.3	26.5	25.7	26.9	27.3	24.7	25.9	25.1	26.3	26.7
	3H	26.9	28.1	27.4	28.5	28.9	26.3	27.4	26.8	27.9	28.3
	4H	27.6	28.7	28.1	29.1	29.6	26.9	28.0	27.4	28.4	28.9
	6H	28.2	29.2	28.7	29.7	30.2	27.5	28.5	28.0	29.0	29.5
	8H	28.5	29.4	29.0	29.9	30.4	27.8	28.8	28.3	29.2	29.7
	12H	28.7	29.6	29.2	30.1	30.6	28.2	29.1	28.7	29.5	30.1
4H	2H	25.9	27.0	26.4	27.4	27.9	25.4	26.5	25.9	26.9	27.4
	3H	27.8	28.7	28.3	29.1	29.7	27.2	28.1	27.7	28.6	29.1
	4H	28.6	29.4	29.1	29.9	30.5	28.0	28.8	28.5	29.3	29.8
	6H	29.4	30.1	29.9	30.6	31.2	28.7	29.4	29.3	29.9	30.5
	8H	29.7	30.4	30.3	30.9	31.5	29.1	29.7	29.7	30.3	30.9
	12H	30.0	30.6	30.6	31.1	31.8	29.5	30.1	30.1	30.7	31.3
8H	4H	28.9	29.6	29.5	30.1	30.7	28.3	29.0	28.9	29.5	30.1
	6H	29.9	30.4	30.5	31.0	31.6	29.2	29.8	29.8	30.4	31.0
	8H	30.3	30.8	30.9	31.4	32.1	29.8	30.2	30.4	30.8	31.5
	12H	30.8	31.2	31.4	31.8	32.5	30.3	30.7	31.0	31.4	32.0
12H	4H	29.0	29.6	29.5	30.1	30.7	28.3	28.9	28.9	29.5	30.1
	6H	30.0	30.5	30.6	31.0	31.7	29.4	29.8	30.0	30.4	31.1
	8H	30.5	30.9	31.1	31.5	32.2	29.9	30.3	30.6	31.0	31.6
Variation of the observer position for the luminaire distance S											
S = 1.0H		+0.1 / -0.1					+0.1 / -0.1				
S = 1.5H		+0.2 / -0.2					+0.3 / -0.4				
S = 2.0H		+0.3 / -0.5					+0.3 / -0.6				
Standard table		BK07					BK07				
Correction summand		13.7					13.1				
Corrected glare indices referring to 11.1 lm total luminous flux											

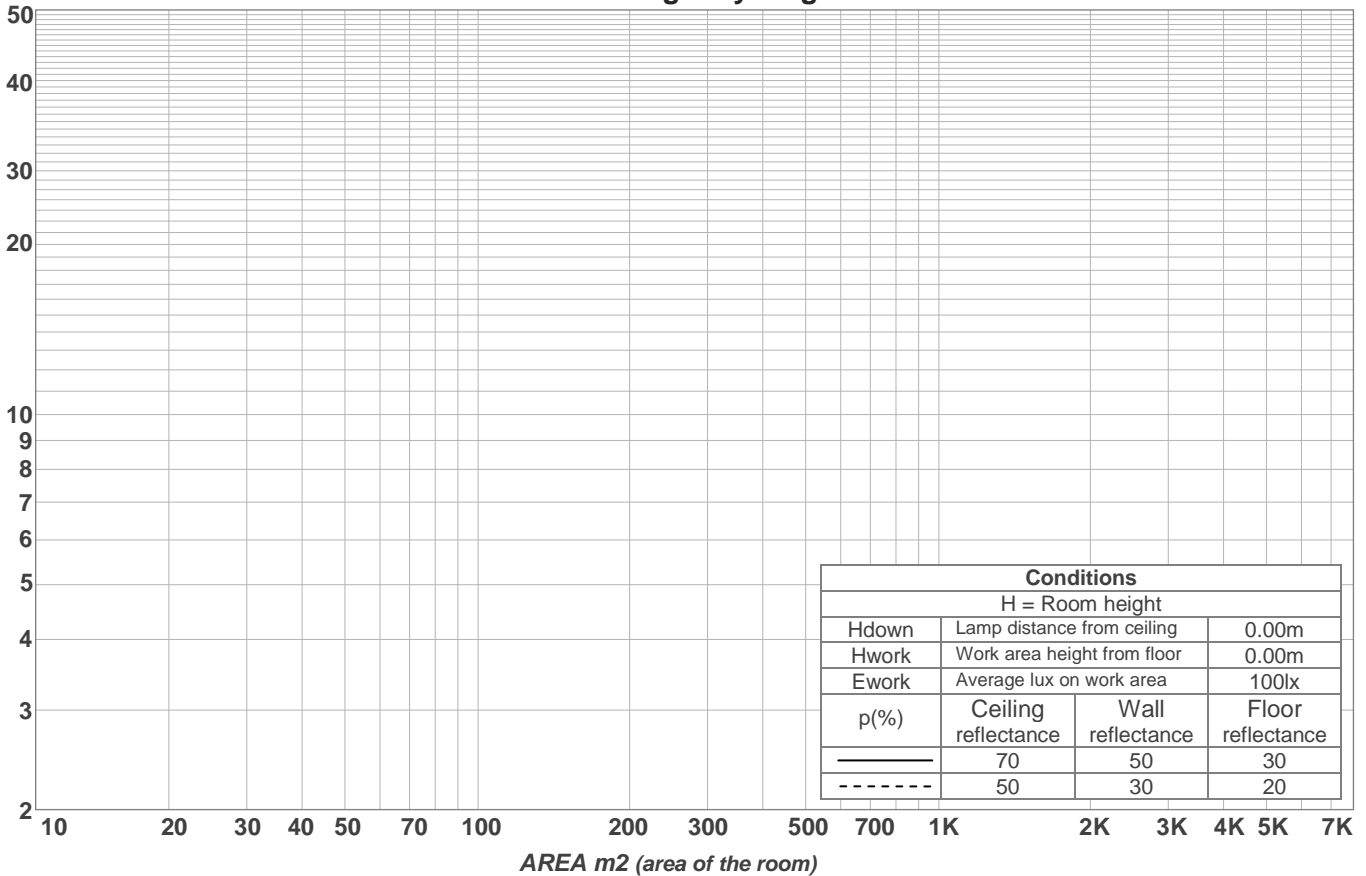
UGR data could be incorrect as lamp output is not symmetrical. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	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	106	106	106	100	100	100	94	94	94	91
1	106	101	96	92	102	98	94	90	92	88	85	86	84	81	81	79	77	75
2	96	87	80	74	92	85	78	73	80	74	70	75	71	67	71	67	64	61
3	87	76	68	61	84	74	66	60	70	63	58	66	60	56	62	58	54	51
4	80	67	58	52	77	66	57	51	62	55	49	58	52	48	55	50	46	43
5	73	60	51	44	70	58	50	44	55	48	42	52	46	41	50	44	40	37
6	67	54	45	38	65	53	44	38	50	42	37	47	41	36	45	39	35	33
7	62	49	40	34	60	48	39	33	45	38	32	43	36	32	41	35	31	29
8	58	44	36	30	56	43	35	30	41	34	29	39	33	28	38	32	28	25
9	54	41	32	27	52	40	32	27	38	31	26	36	30	25	35	29	25	23
10	51	37	30	24	49	37	29	24	35	28	23	34	27	23	32	27	22	21

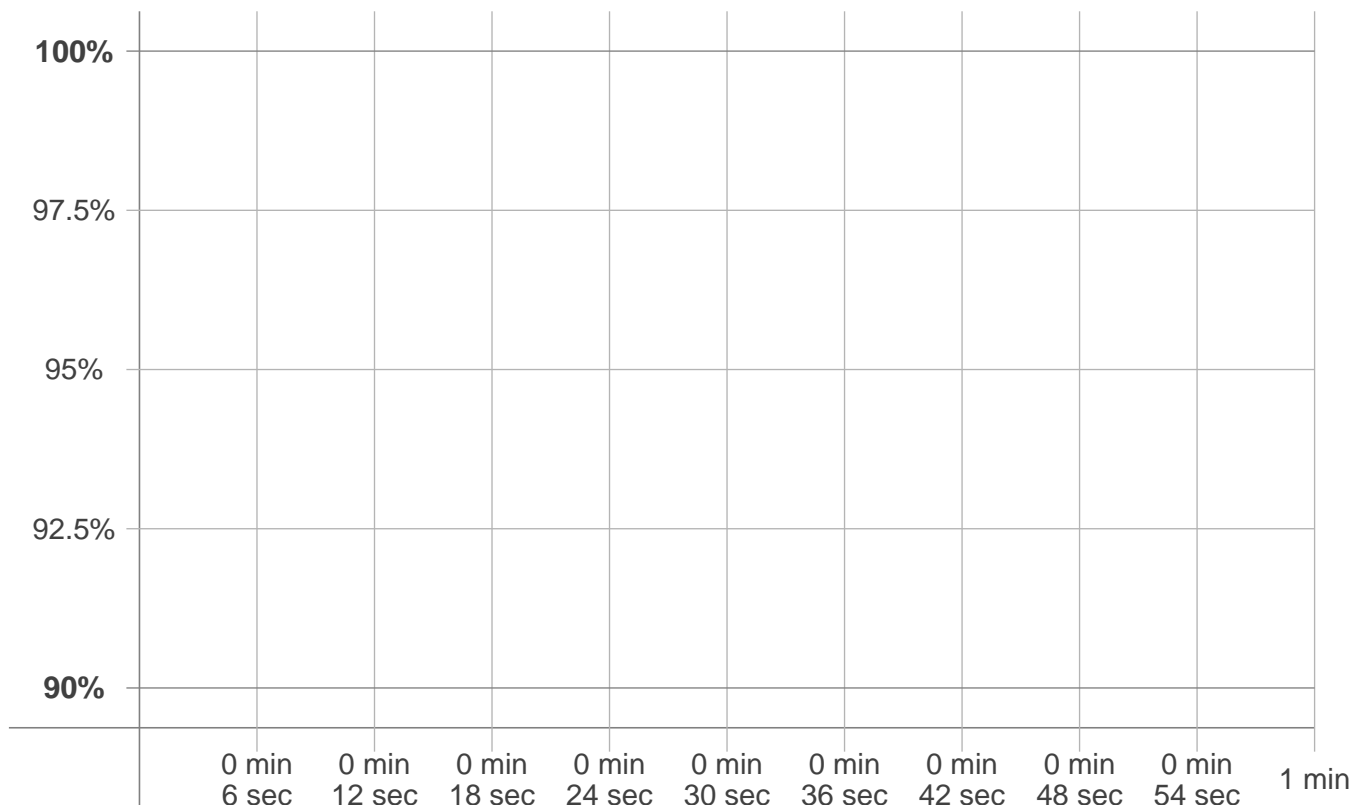
LAMPS (number of lamps)

Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
0.313 lm	0.901 lm	1.37 lm	1.67 lm	1.78 lm	1.67 lm	1.30 lm	0.809 lm	0.364 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.192 lm	0.169 lm	0.148 lm	0.129 lm	0.114 lm	0.099 lm	0.069 lm	0.042 lm	0.015 lm

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	0 K

Output change

Output start	Output change	Output end
n/a lm	n/a lm	11.1 lm