

Light efficiency:

39 Lumen/Watt

Light quality:

CRI: 97.7

Color temperature:

3044 K

Output: 810 lm

Peak: 3031 cd

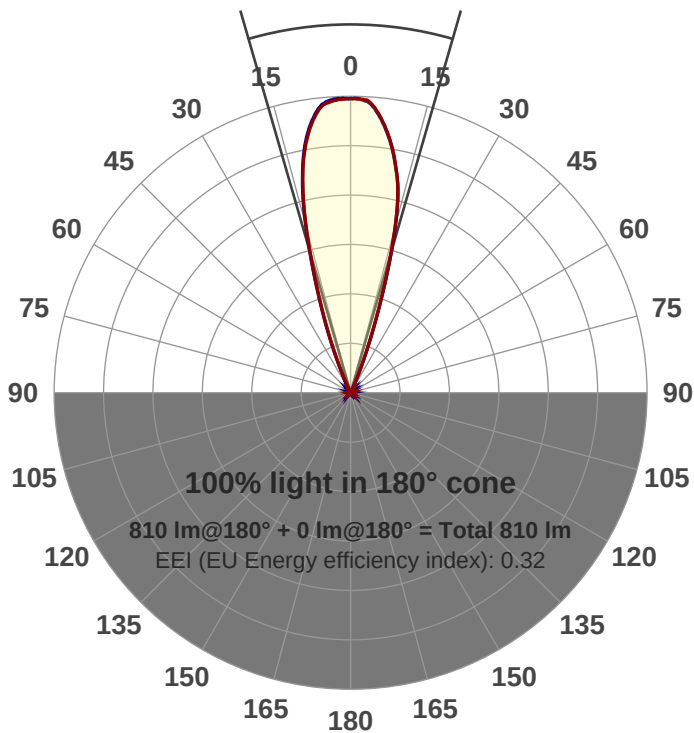
Power: 20.6 W

PF: 0.98



Beam angle

32.2°



Product name:

GRF-XT17-FL-RD FR

Item number:

GRF-XT17-FL-RD

Date and time:

6/19/2017 11:57:04
AM

Description:

700mA

LUM: 810

PPF: 16.0

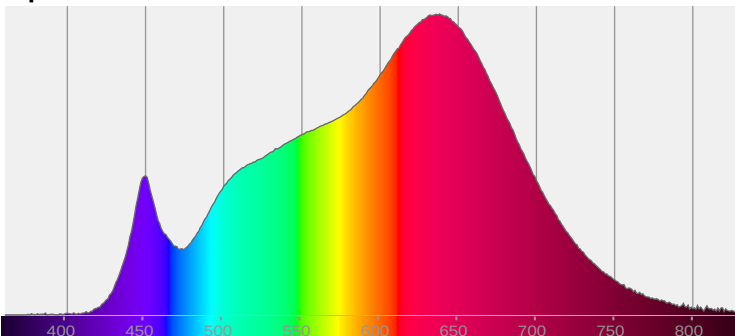


CIE 1931

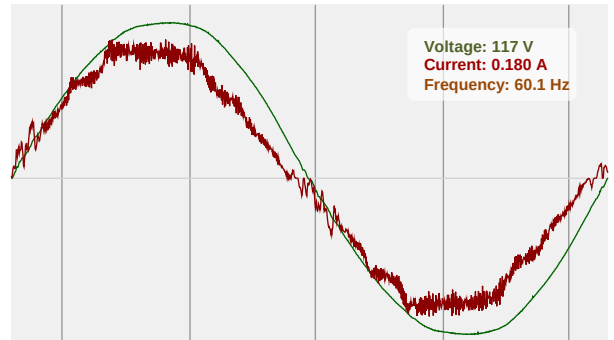
x: 0.433

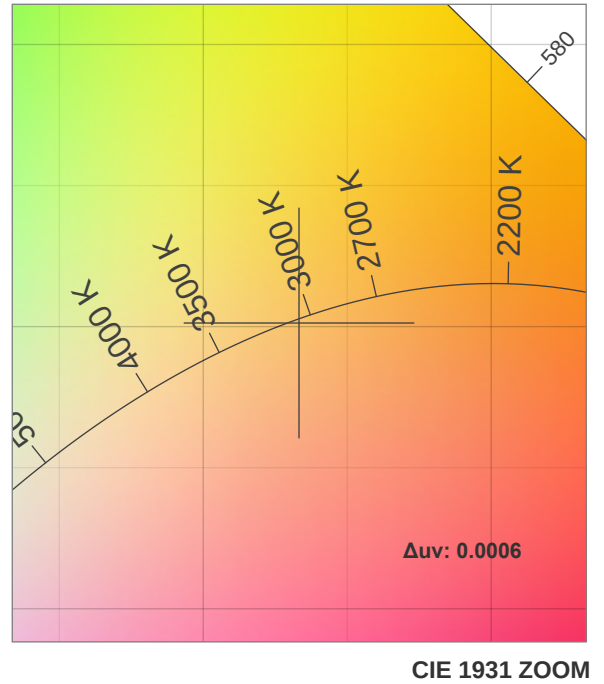
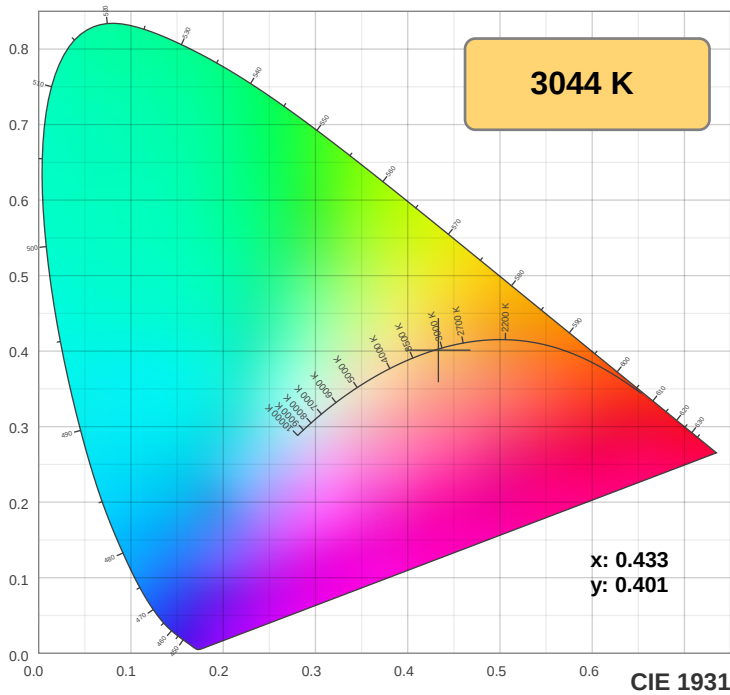
y: 0.401

Spectra

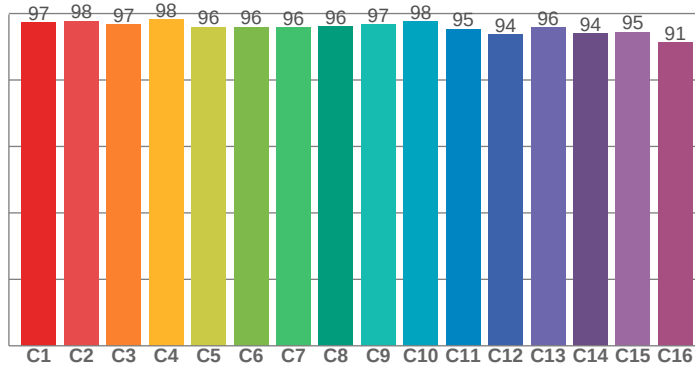


Power

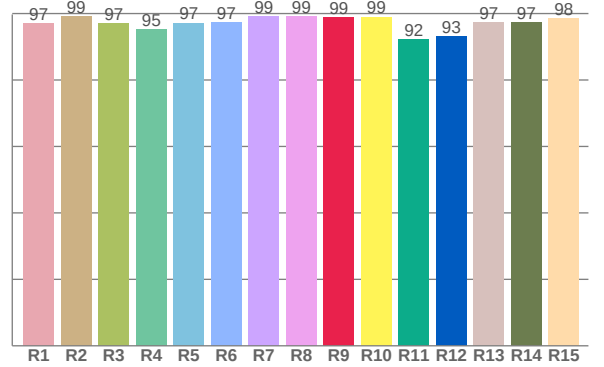




TM30: 96.1



CRI: 97.7 (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
97.1	99.2	97.0	95.3	97.2	97.2	99.1	99.2	99.0	99.0	92.1	93.0	97.4	97.5	98.5

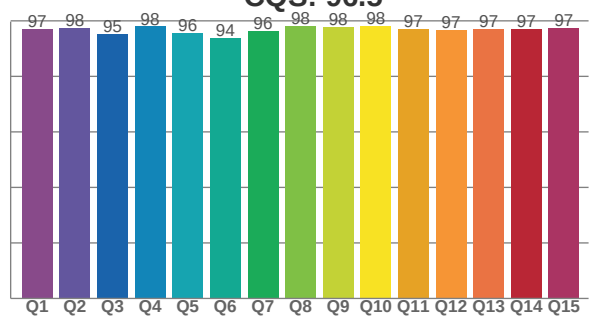
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97.2	97.8	96.7	98.2	95.9	96.0	95.8	96.1	96.7	97.5	95.4	93.6	95.8	94.0	94.5	91.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97.1	97.5	95.3	98.0	95.6	93.9	96.2	98.1	97.8	98.2	97.2	96.6	97.1	97.2	97.5

CQS: 96.5



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
3044 K	97.7	99.0	96.1	102.3	96.5	0.433	0.401	0.249	0.346	0.0006

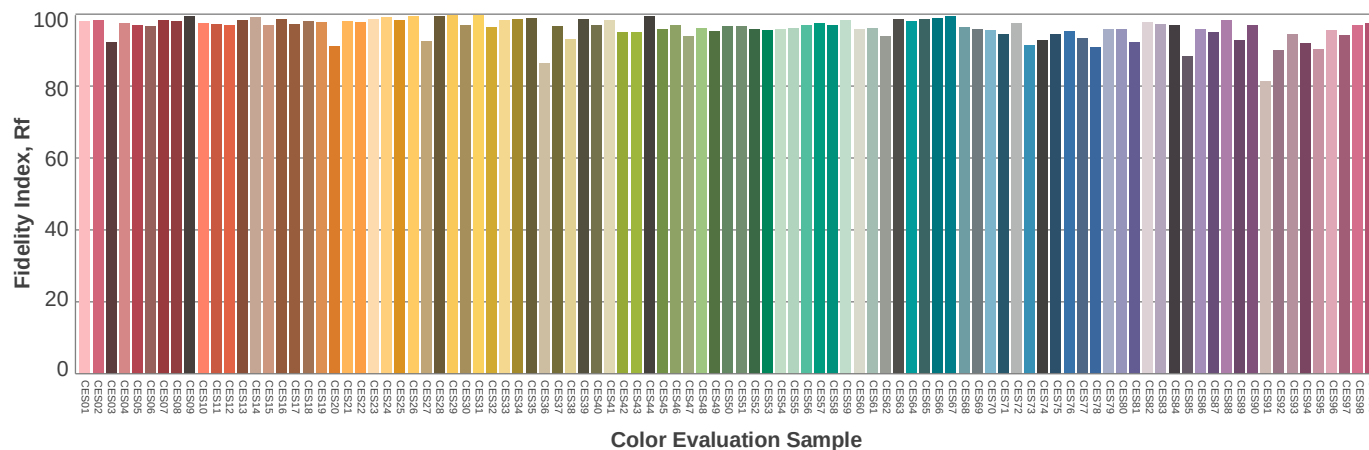
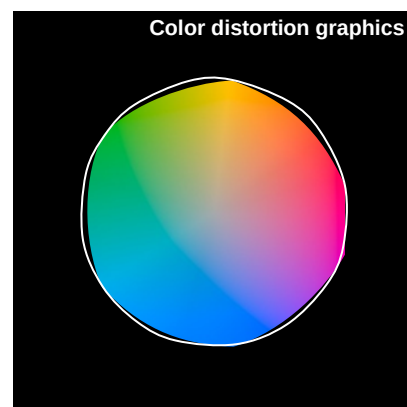
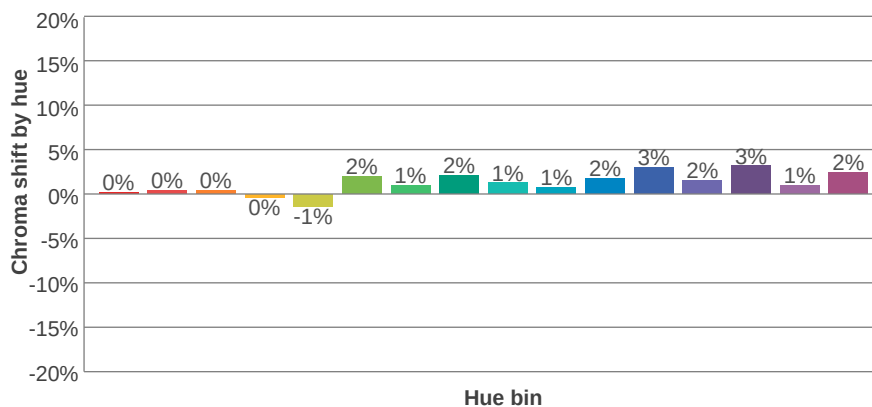
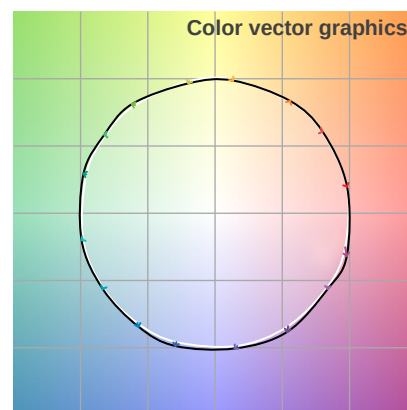
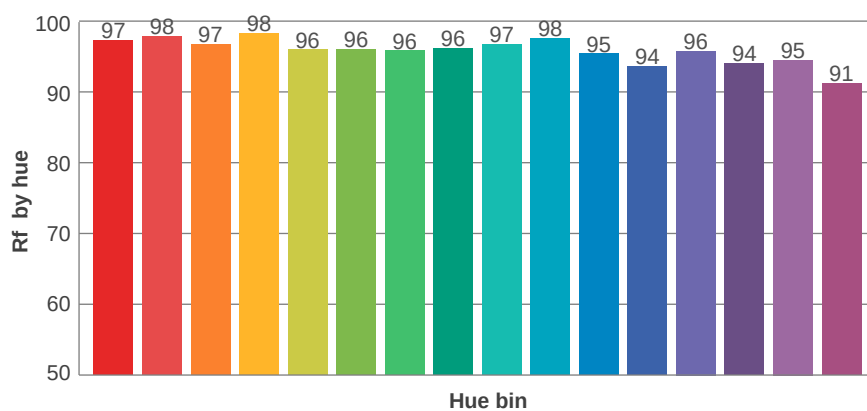
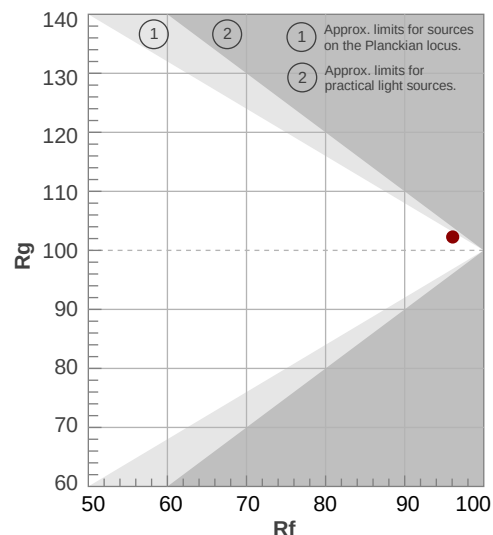
Rf 96.1

Fidelity index Rf

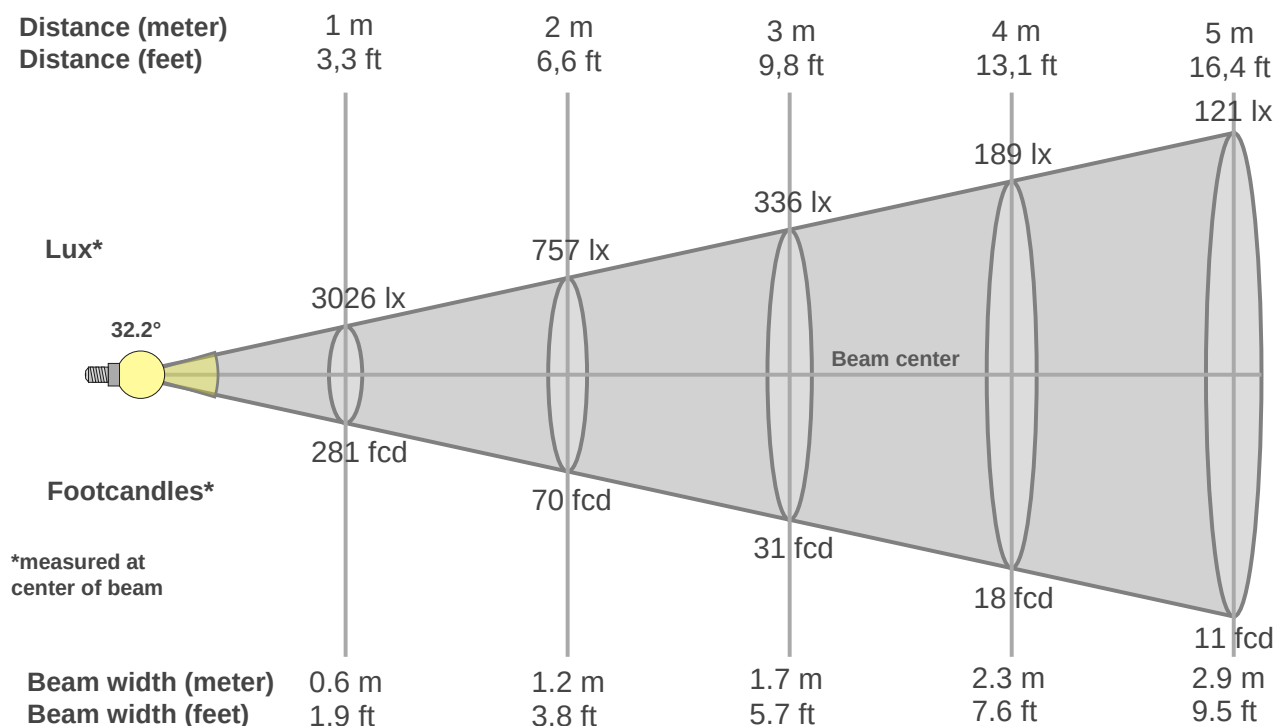
Rg 102.3

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	97	0%	-1%
2	98	0%	-1%
3	97	0%	0%
4	98	0%	-1%
5	96	-1%	1%
6	96	2%	1%
7	96	1%	1%
8	96	2%	0%
9	97	1%	1%
10	98	1%	0%
11	95	2%	2%
12	94	3%	0%
13	96	2%	-2%
14	94	3%	-3%
15	95	1%	-2%
16	91	2%	-6%



Beam details



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
3026lx	757lx	336lx	189lx	121lx	84lx	62lx	47lx	37lx	30lx	25lx	21lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	8lx
281.2fcd	70.3fcd	31.2fcd	17.6fcd	11.2fcd	7.8fcd	5.7fcd	4.4fcd	3.5fcd	2.8fcd	2.3fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3026	3019	3000	2949	2816	2619	2356	1987	1532	1079	708	398	167	32	11	8	5	4	4	2
100%	100%	99%	97%	93%	87%	78%	66%	51%	36%	23%	13%	6%	1%	0%	0%	0%	0%	0%	0%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3026	3027	3017	2965	2834	2641	2370	2005	1541	1100	735	420	166	28	9	5	4	4	3	2
100%	100%	100%	98%	94%	87%	78%	66%	51%	36%	24%	14%	5%	1%	0%	0%	0%	0%	0%	0%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3026	3021	2987	2867	2710	2518	2292	1984	1532	1035	611	322	124	36	14	10	7	5	4	3
100%	100%	99%	95%	90%	83%	76%	66%	51%	34%	20%	11%	4%	1%	0%	0%	0%	0%	0%	0%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3026	3019	2976	2855	2700	2510	2289	1994	1545	1034	620	296	115	35	12	7	5	4	3	3
100%	100%	98%	94%	89%	83%	76%	66%	51%	34%	20%	10%	4%	1%	0%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
32.2°	44.9°	49.8°	1.0%	1.0%

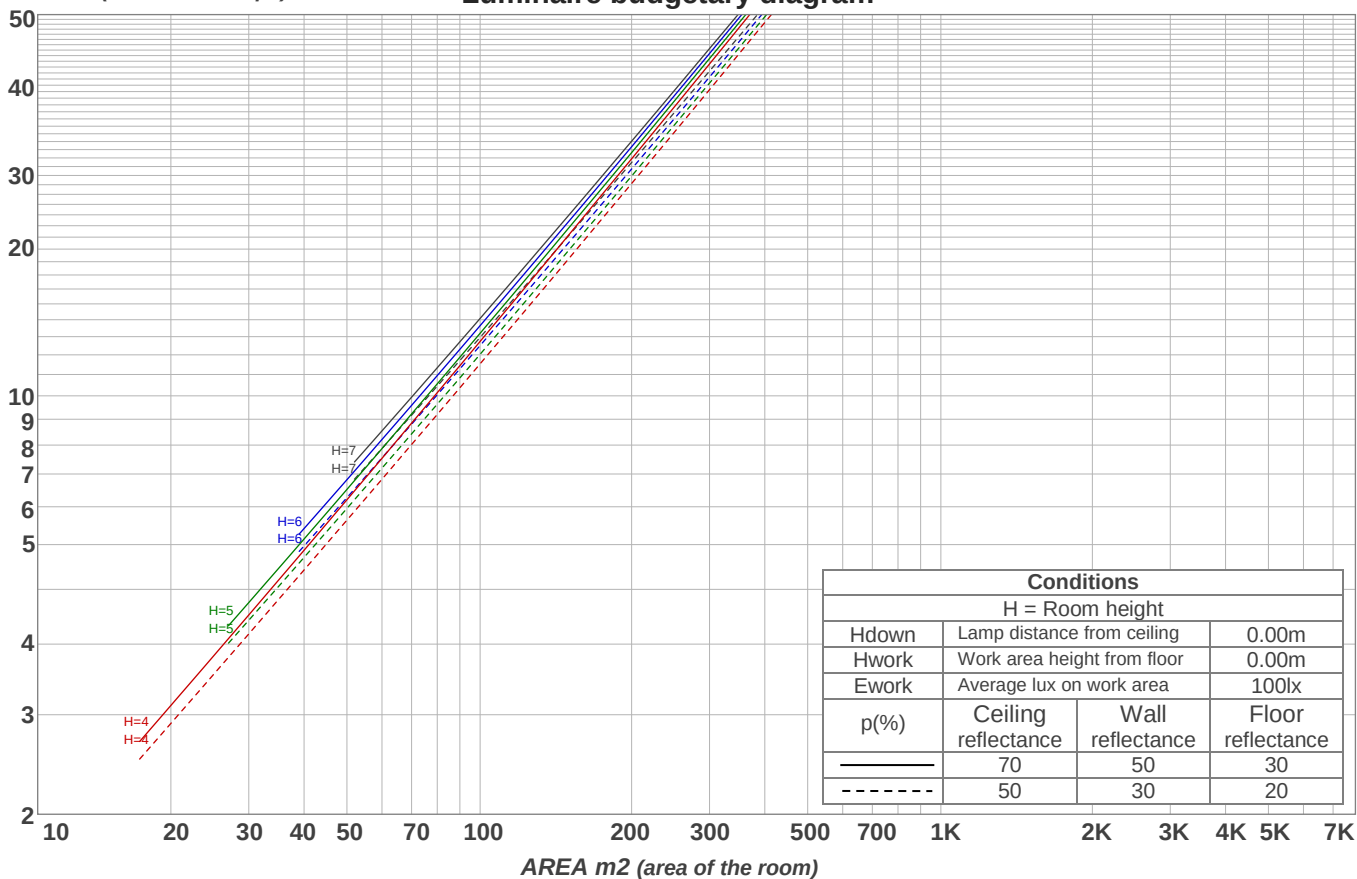
Light planning

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	113	111	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	93
3	108	103	100	97	106	102	99	96	99	97	95	97	95	93	95	93	92	90
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88
5	102	96	92	89	100	95	92	89	94	90	88	92	89	87	91	88	87	86
6	99	93	89	86	98	92	89	86	91	88	85	90	87	85	89	86	84	83
7	96	90	86	83	95	90	86	83	89	85	83	88	85	82	87	84	82	81
8	94	88	84	81	93	87	83	81	86	83	81	85	82	80	85	82	80	79
9	92	85	81	79	91	85	81	79	84	81	78	83	80	78	83	80	78	77
10	90	83	79	77	89	83	79	77	82	79	76	82	78	76	81	78	76	75

LAMPS (number of lamps)

Luminaire budgetary diagram



Zonal Lumen Summary

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