

Light efficiency:

53 Lumen/Watt

Light quality:

CRI: 97.2

Color temperature:

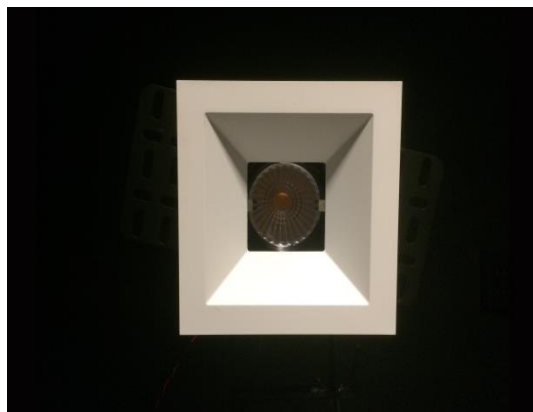
3058 K

Output: 798 lm

Peak: 2022 cd

Power: 15.0 W

PF: 0.97



Beam angle

35.9°

Product name:

GR-X-FL-SQ

Item number:

GR-X-FL-SQ

Date and time:

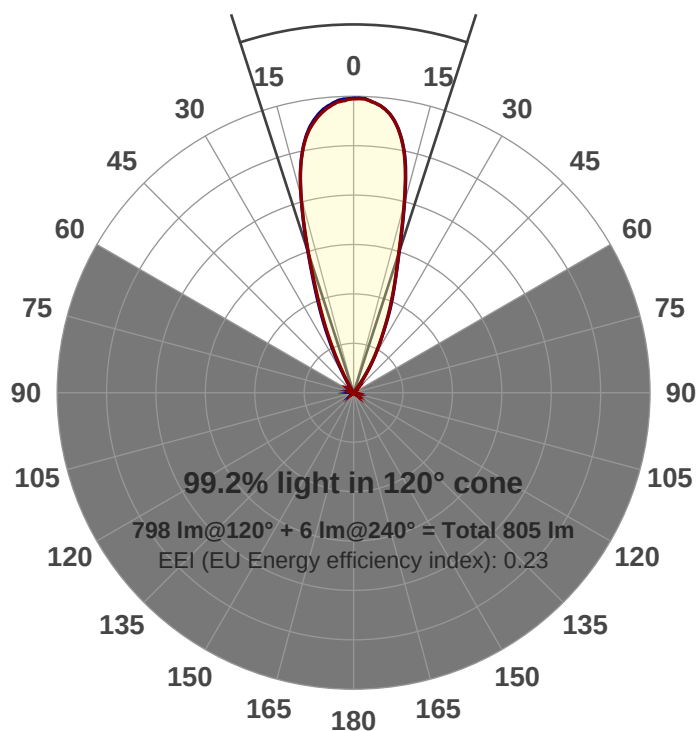
3/20/2017 6:10:59 PM

Description:

500mA

LUM: 798

PPF: 13.9

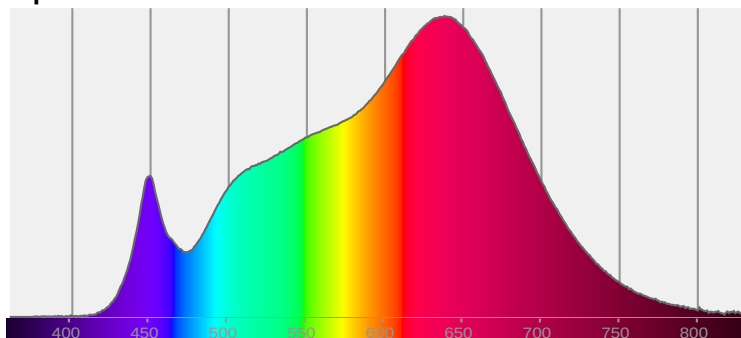


CIE 1931

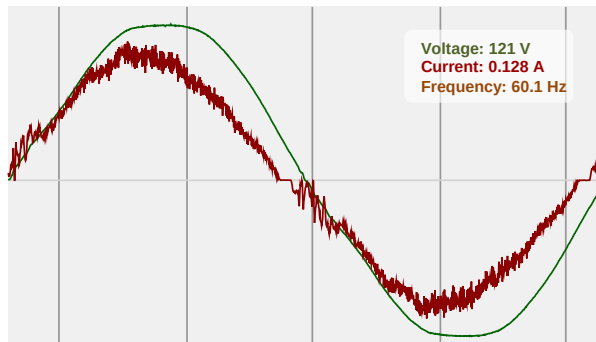
x: 0.432

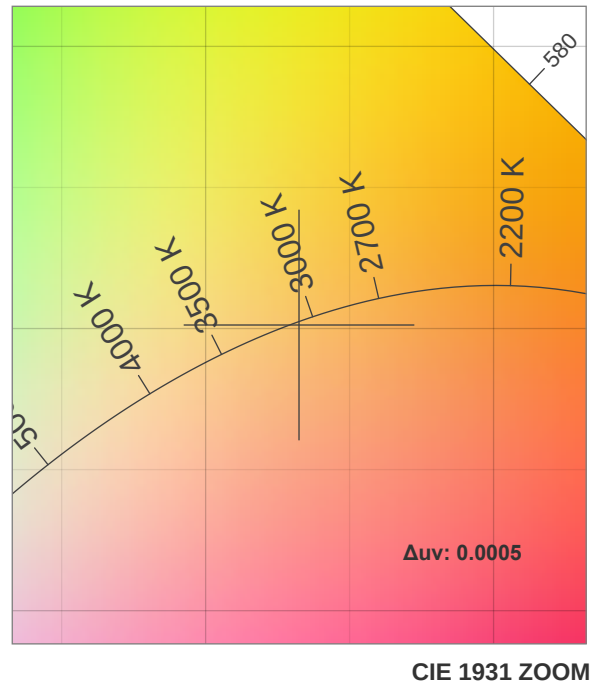
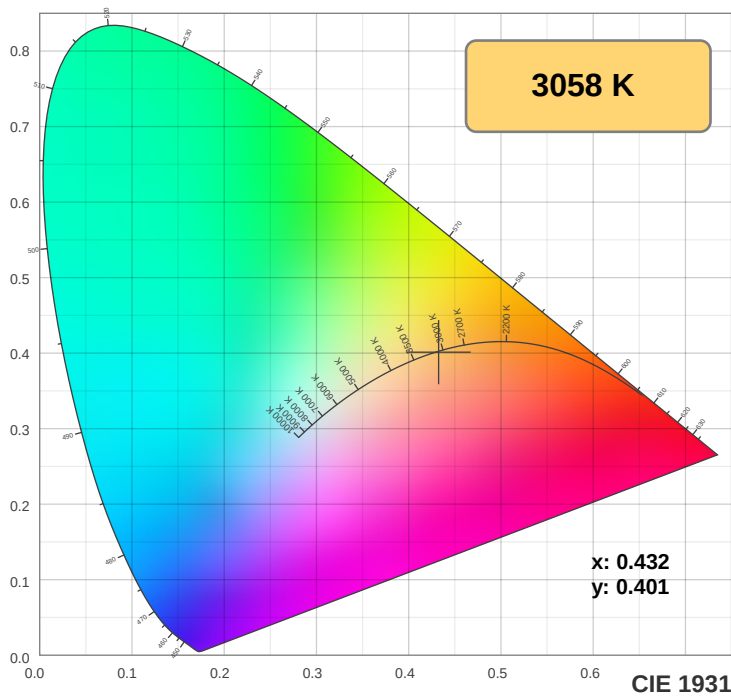
y: 0.401

Spectra

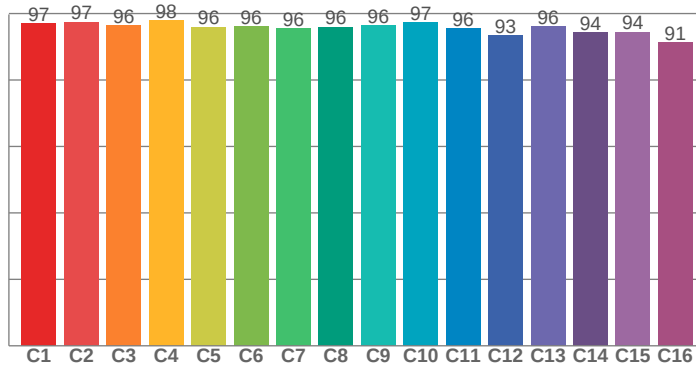


Power

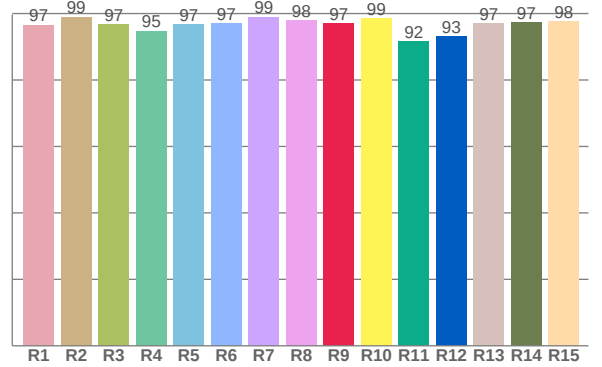




TM30: 96.0



CRI: 97.2 (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
96.6	99.0	96.8	94.8	96.7	97.2	99.0	98.0	97.0	98.5	91.5	93.1	97.0	97.4	97.6

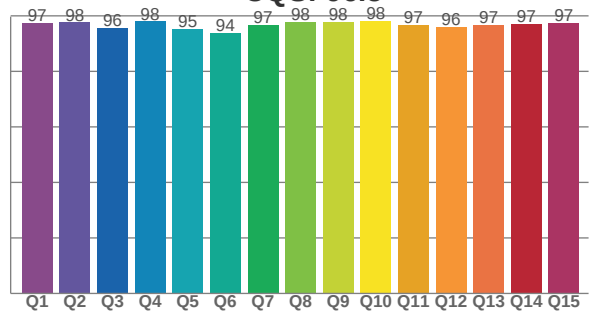
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
97.1	97.5	96.4	97.9	96.0	96.1	95.5	96.0	96.5	97.3	95.5	93.4	96.1	94.3	94.5	91.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
97.4	97.6	95.6	98.0	95.3	93.9	96.6	97.7	97.7	98.3	96.7	96.1	96.6	97.2	97.4

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
3058 K	97.2	97.0	96.0	102.5	96.5	0.432	0.401	0.249	0.346	0.0005

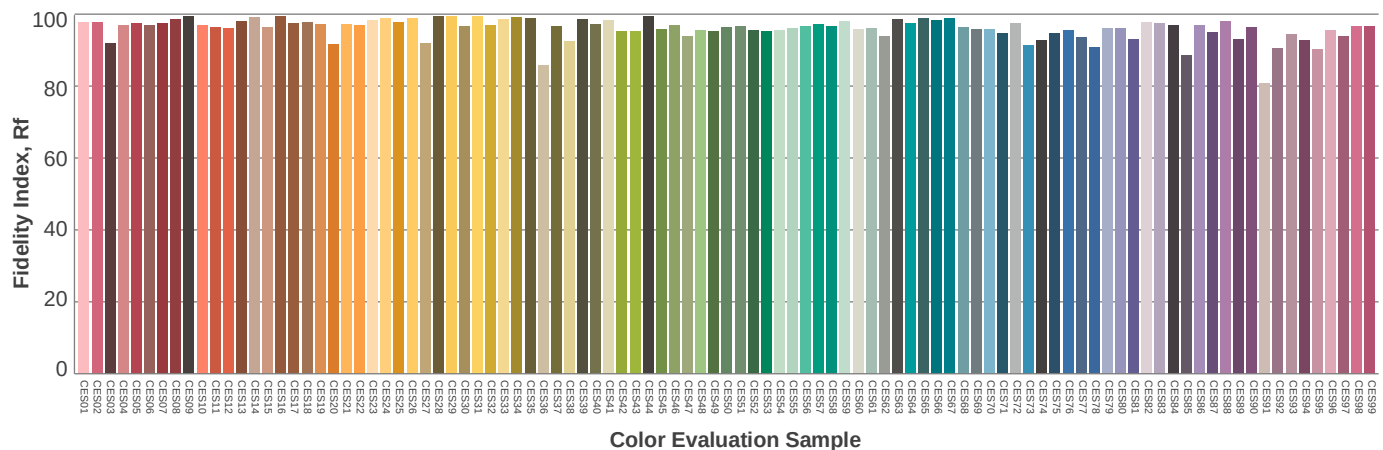
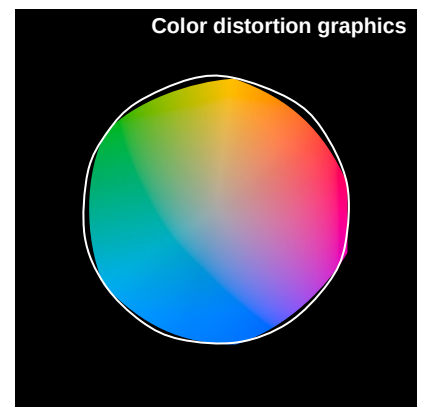
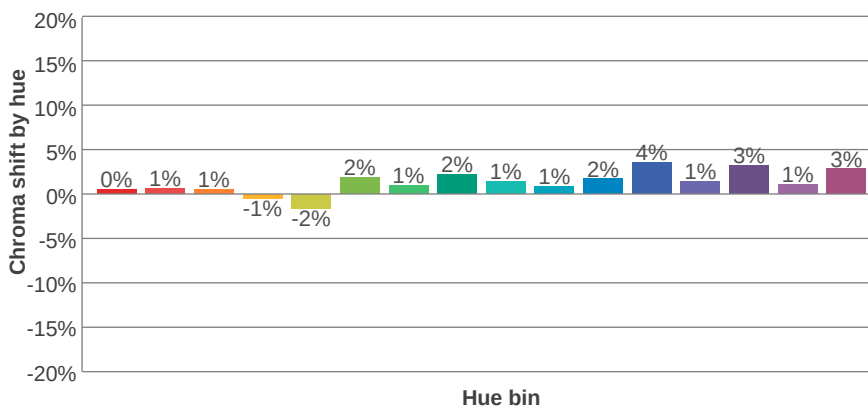
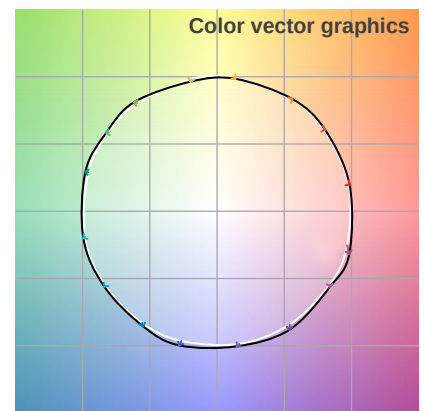
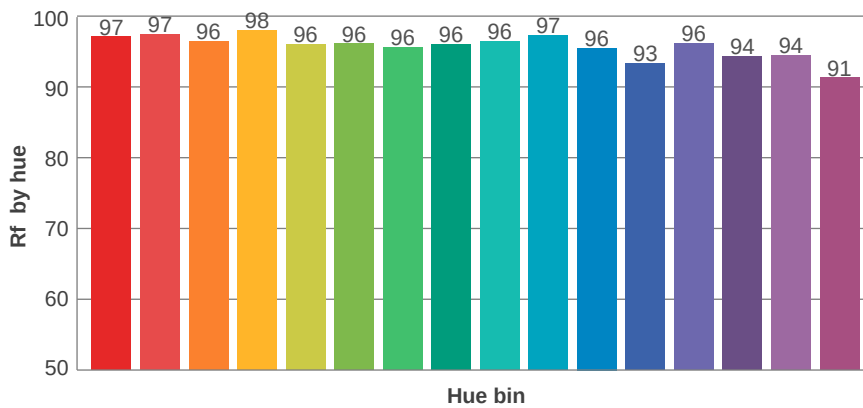
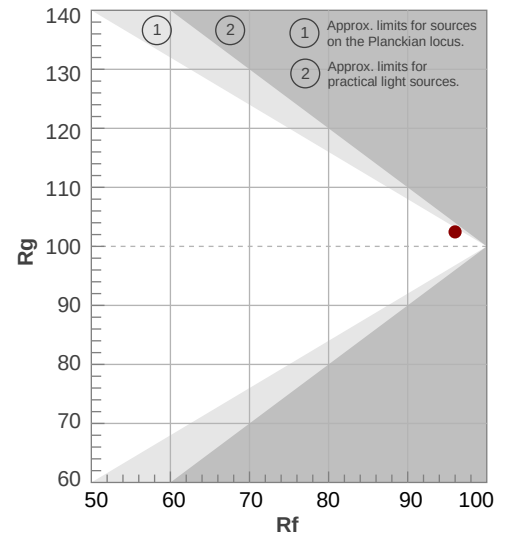
Rf 96.0

Fidelity index Rf

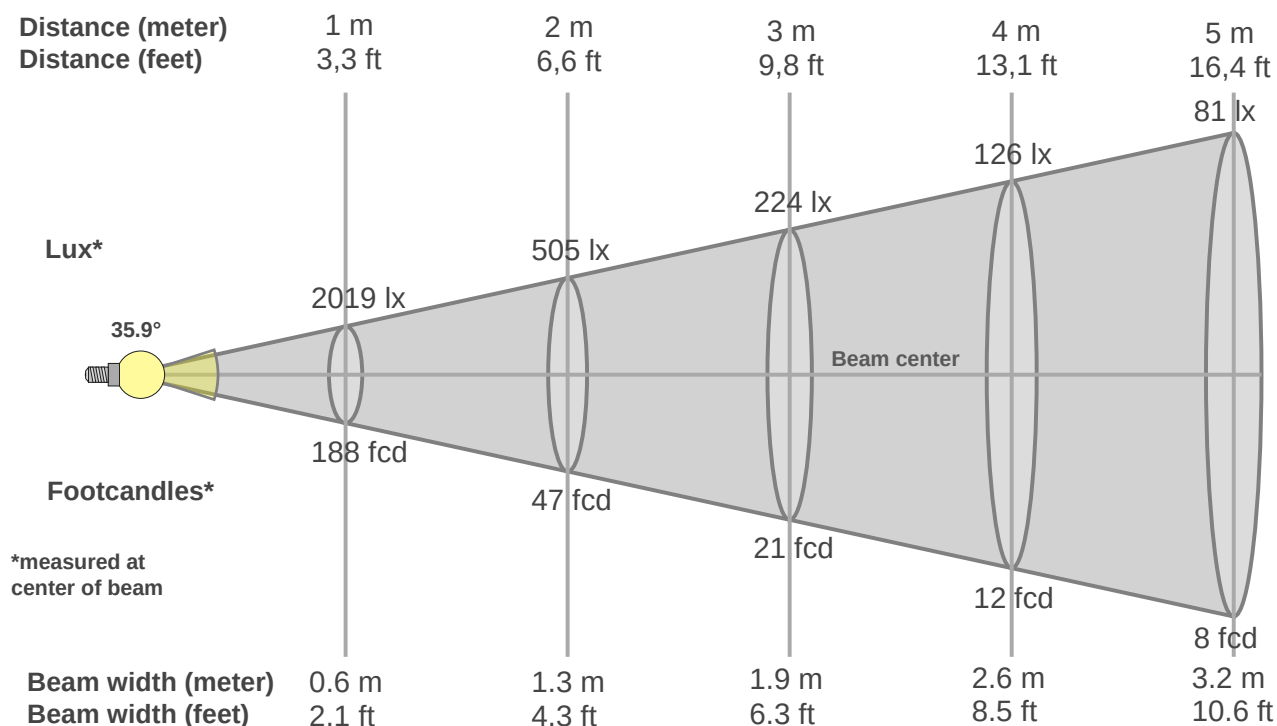
Rg 102.5

Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	97	0%	-1%
2	97	1%	-1%
3	96	1%	0%
4	98	-1%	-1%
5	96	-2%	1%
6	96	2%	1%
7	96	1%	1%
8	96	2%	0%
9	96	1%	1%
10	97	1%	0%
11	96	2%	2%
12	93	4%	-1%
13	96	1%	-2%
14	94	3%	-2%
15	94	1%	-1%
16	91	3%	-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
2019lx	505lx	224lx	126lx	81lx	56lx	41lx	32lx	25lx	20lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	6lx	5lx
187.5fcd	46.9fcd	20.8fcd	11.7fcd	7.5fcd	5.2fcd	3.8fcd	2.9fcd	2.3fcd	1.9fcd	1.5fcd	1.3fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.5fcd

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°
2019	2004	1983	1944	1887	1808	1688	1511	1259	994	760	577	415	270	150	73	24	7	4	3
100%	99%	98%	96%	93%	90%	84%	75%	62%	49%	38%	29%	21%	13%	7%	4%	1%	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°
2019	2016	1994	1959	1900	1816	1690	1506	1266	1010	792	617	461	317	201	113	50	14	4	3
100%	100%	99%	97%	94%	90%	84%	75%	63%	50%	39%	31%	23%	16%	10%	6%	2%	1%	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°
2019	2017	1997	1964	1906	1812	1672	1461	1216	998	843	706	583	469	375	295	218	147	84	37
100%	100%	99%	97%	94%	90%	83%	72%	60%	49%	42%	35%	29%	23%	19%	15%	11%	7%	4%	2%

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°
2019	2020	1996	1964	1908	1814	1678	1472	1229	1010	847	719	597	472	372	280	198	123	59	21
100%	100%	99%	97%	94%	90%	83%	73%	61%	50%	42%	36%	30%	23%	18%	14%	10%	6%	3%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35.9°	59.7°	68.2°	1.0%	1.0%

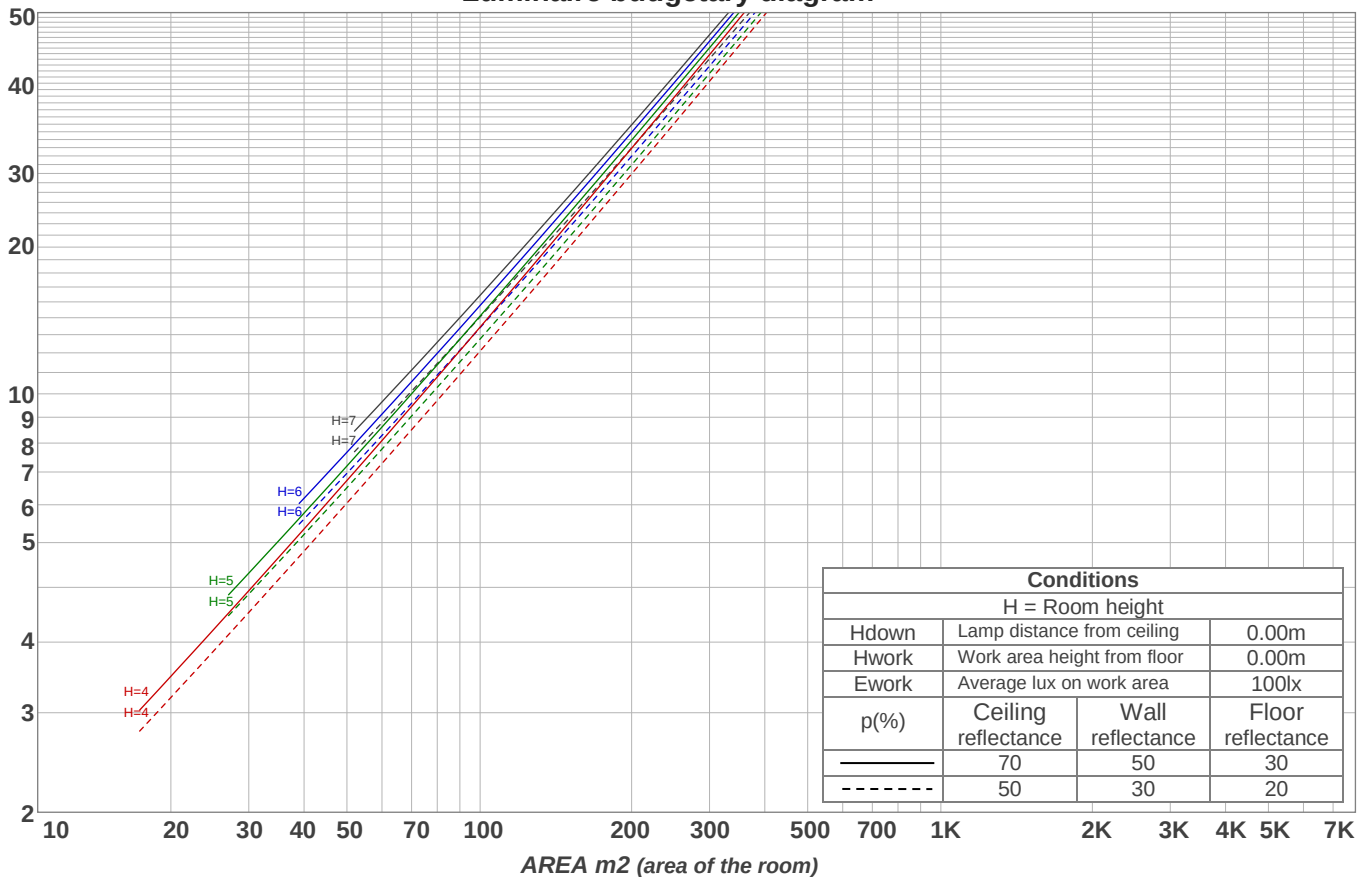
Light planning

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	112	110	109	112	110	108	107	106	105	104	103	101	100	99	98	98	96
2	110	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92
3	106	101	97	94	105	100	97	94	98	95	92	95	93	91	93	91	89	88
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84
5	99	93	88	85	98	92	88	84	90	86	84	89	85	83	87	84	82	81
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78
7	92	85	81	77	91	85	80	77	84	80	77	82	79	76	81	78	76	75
8	89	82	77	74	88	81	77	74	81	77	74	80	76	73	79	76	73	72
9	86	79	74	71	85	79	74	71	78	74	71	77	73	71	76	73	71	70
10	84	76	72	69	83	76	71	69	75	71	68	74	71	68	74	70	68	67

LAMPS (number of lamps)

Luminaire budgetary diagram



Zonal Lumen Summary

[illegible]

