

PHOTOMETRIC TEST REPORT

ELBA CEILING BASE 460 UL 1-10V

astro

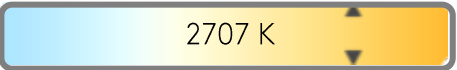
LIGHT EFFICIENCY:



LIGHT QUALITY:



COLOR TEMPERATURE:

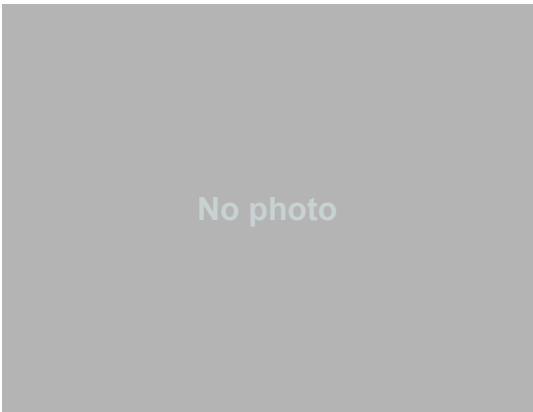


OUTPUT: 2264 lm

PEAK: 738 cd

POWER: 22.9 W

PF: 0.99



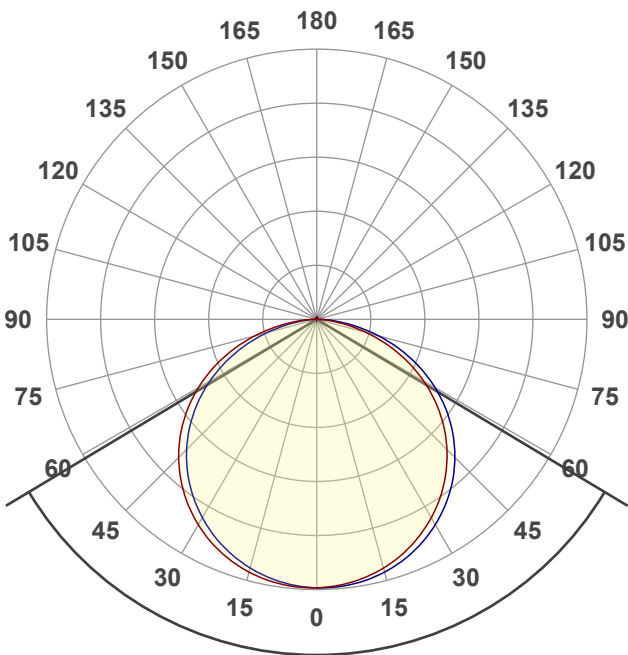
Tracking number: [n/a](#)

Product name:
Elba Ceiling Base 460 UL 1-10v

Item number:
1462019

Date and time:
15/12/2025 15:56:59

Description:

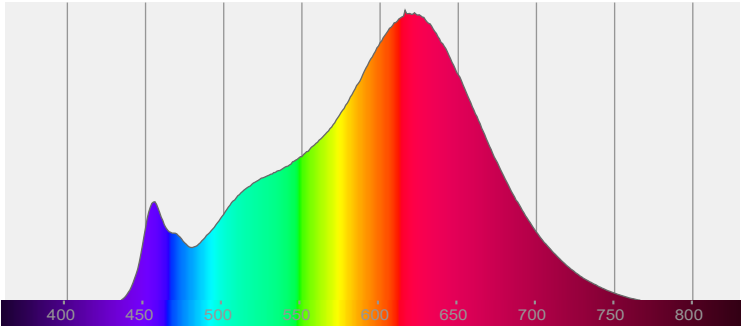


118.1°

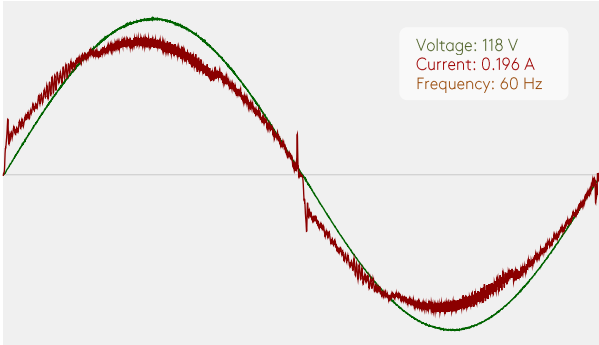


CIE 1931
x: 0.460
y: 0.411

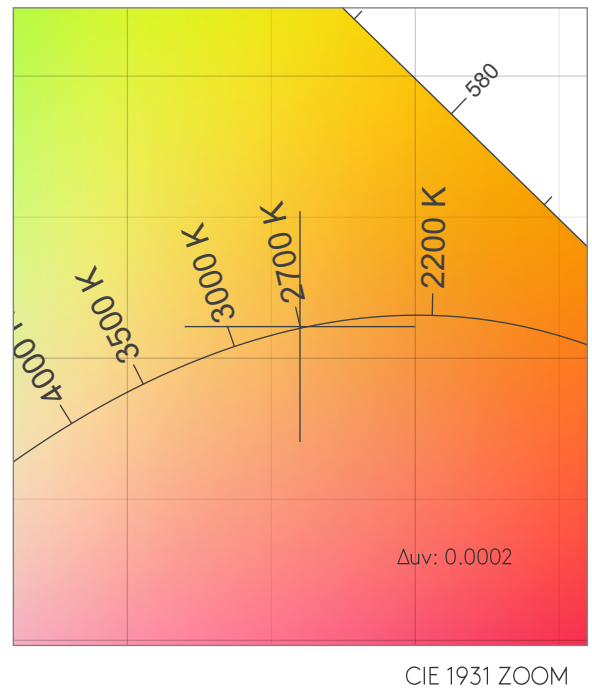
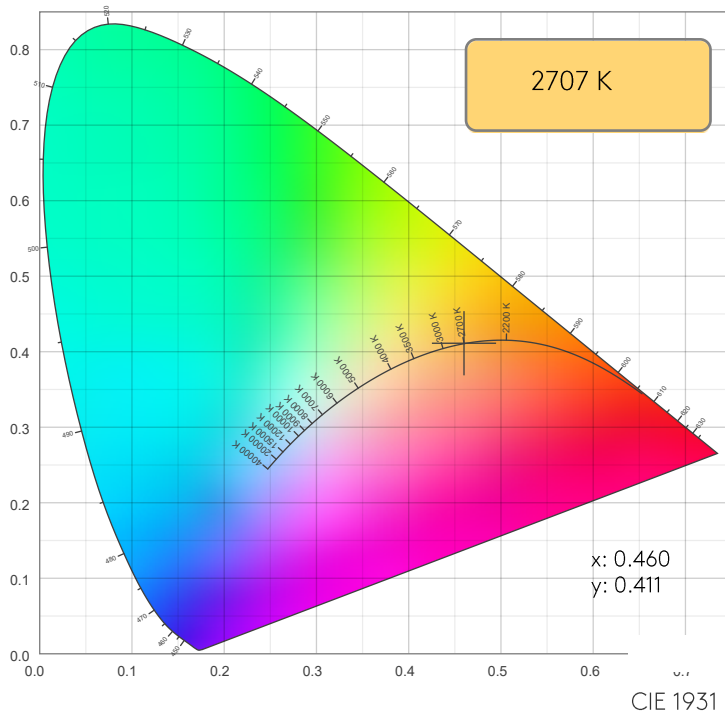
SPECTRA



POWER

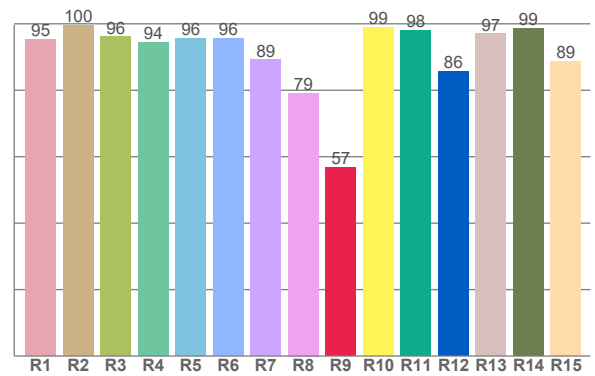
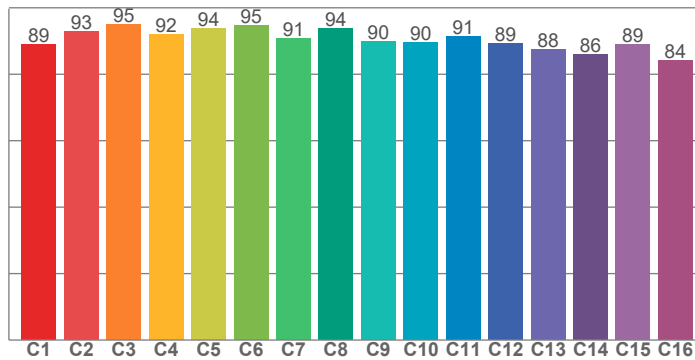


COLOR DETAILS



TM30: 90.6

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
95.3	99.6	96.1	94.5	95.7	95.5	89.1	79.2	56.8	98.9	98.1	85.7	97.0	98.7	88.7

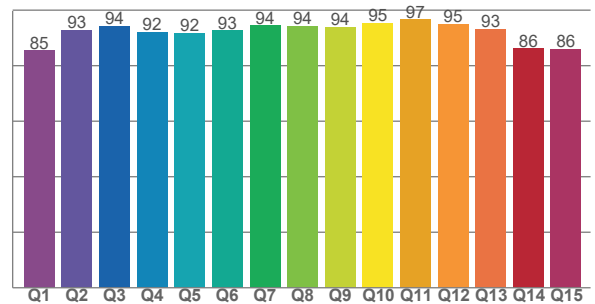
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88.8	92.8	94.9	92.0	93.8	94.6	90.7	93.8	89.9	89.6	91.5	89.2	87.5	85.9	89.0	84.2

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.5	92.8	94.2	92.1	91.8	92.6	94.4	94.3	93.9	95.4	96.7	95.0	93.2	86.1	86.1

CQS: 91.3



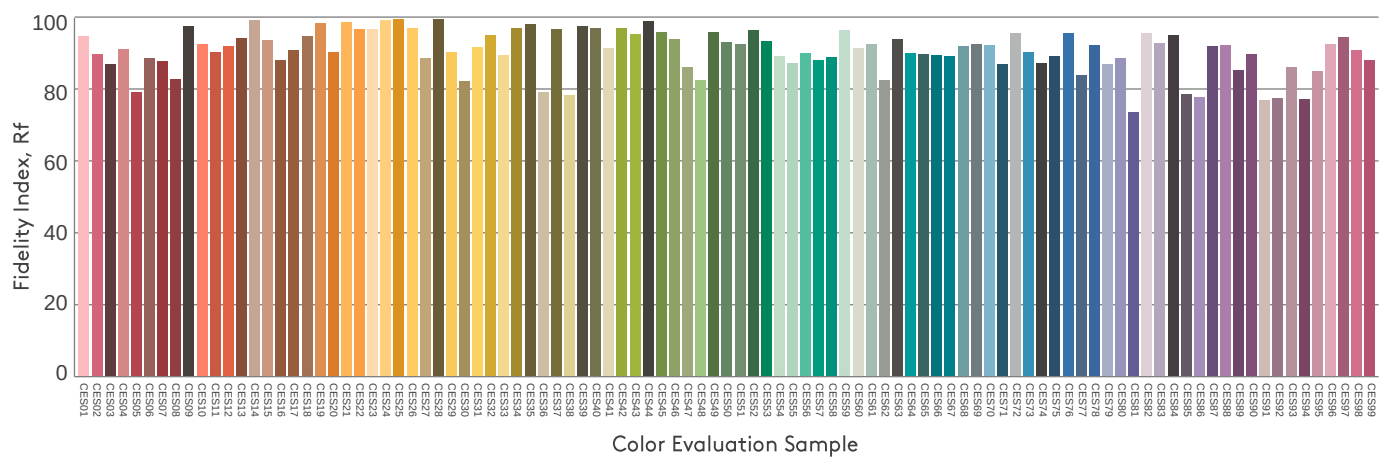
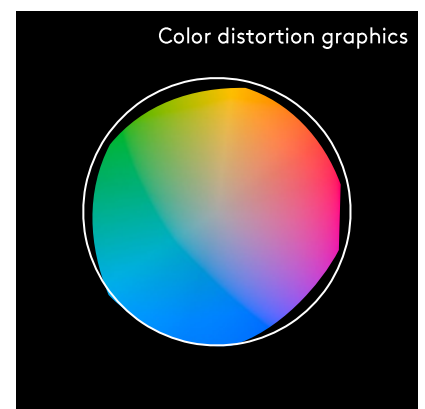
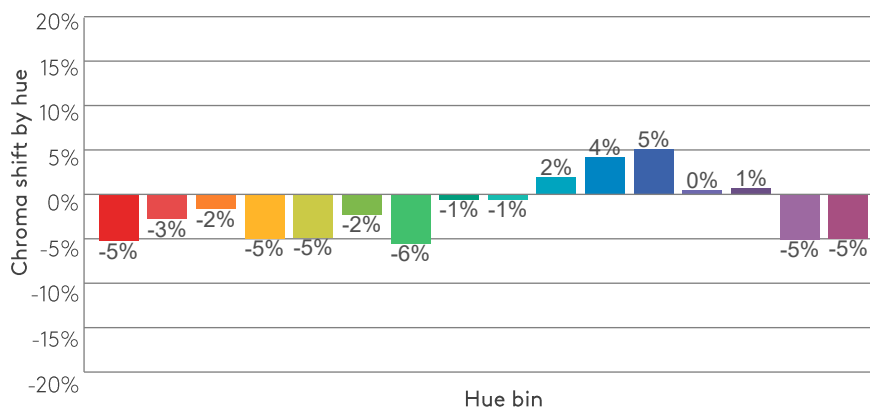
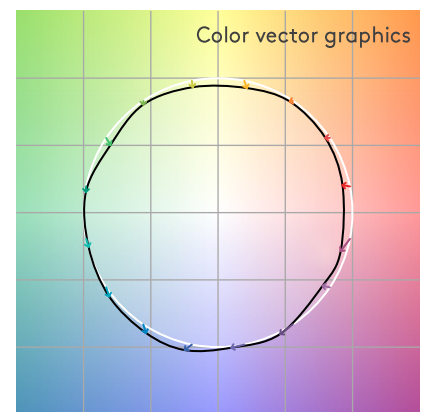
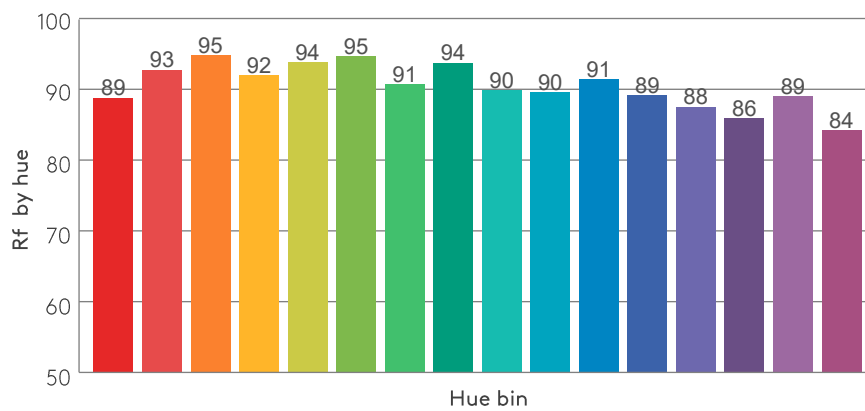
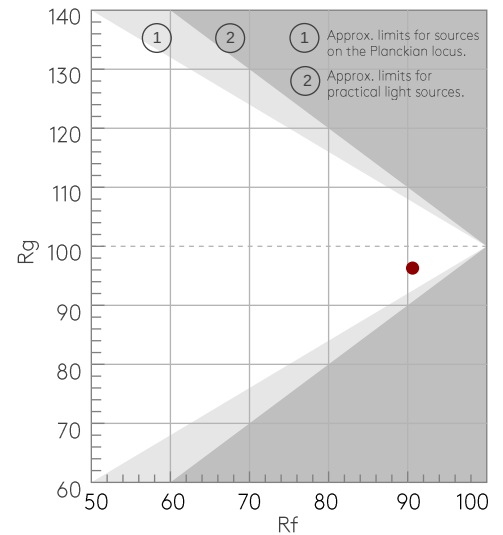
COLOR PARAMETERS

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
2707 K	93.1	56.8	90.6	96.3	91.3	0.460	0.411	0.262	0.352	0.0002

Rf 90.6
Fidelity index Rf

Rg 96.3
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	89	-5%	2%
2	93	-3%	2%
3	95	-2%	2%
4	92	-5%	-3%
5	94	-5%	0%
6	95	-2%	2%
7	91	-6%	3%
8	94	-1%	4%
9	90	-1%	6%
10	90	2%	7%
11	91	4%	5%
12	89	5%	-4%
13	88	0%	-10%
14	86	1%	-12%
15	89	-5%	-2%
16	84	-5%	-10%



The diagram illustrates a beam of light originating from a point source with a beam angle of 118.1°. The beam is shown as a cone that widens as it travels. At various distances, the beam's width and the illuminance (in lux and footcandles) at the center are specified. The beam center is marked with a horizontal line.

Distance (meter)	Distance (feet)	Beam width (meter)	Beam width (feet)	Illuminance (lux)	Illuminance (footcandles)
1 m	3.3 ft	3.3 m	11 ft	738 lx	69 fcd
2 m	6.6 ft	6.7 m	22 ft	184 lx	17 fcd
3 m	9.8 ft	10 m	32.7 ft	82 lx	8 fcd
4 m	13.1 ft	13.3 m	43.7 ft	46 lx	4 fcd
5 m	16.4 ft	16.7 m	54.7 ft	30 lx	3 fcd

*measured at center of beam

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
738lx	184lx	82lx	46lx	30lx	20lx	15lx	12lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx
68.6fcd	17.1fcd	7.6fcd	4.3fcd	2.7fcd	1.9fcd	1.4fcd	1.1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
738	733	723	708	687	661	630	593	552	506	455	399	339	276	209	142	80	30	5	3
100%	99%	98%	96%	93%	90%	85%	80%	75%	69%	62%	54%	46%	37%	28%	19%	11%	4%	1%	0%

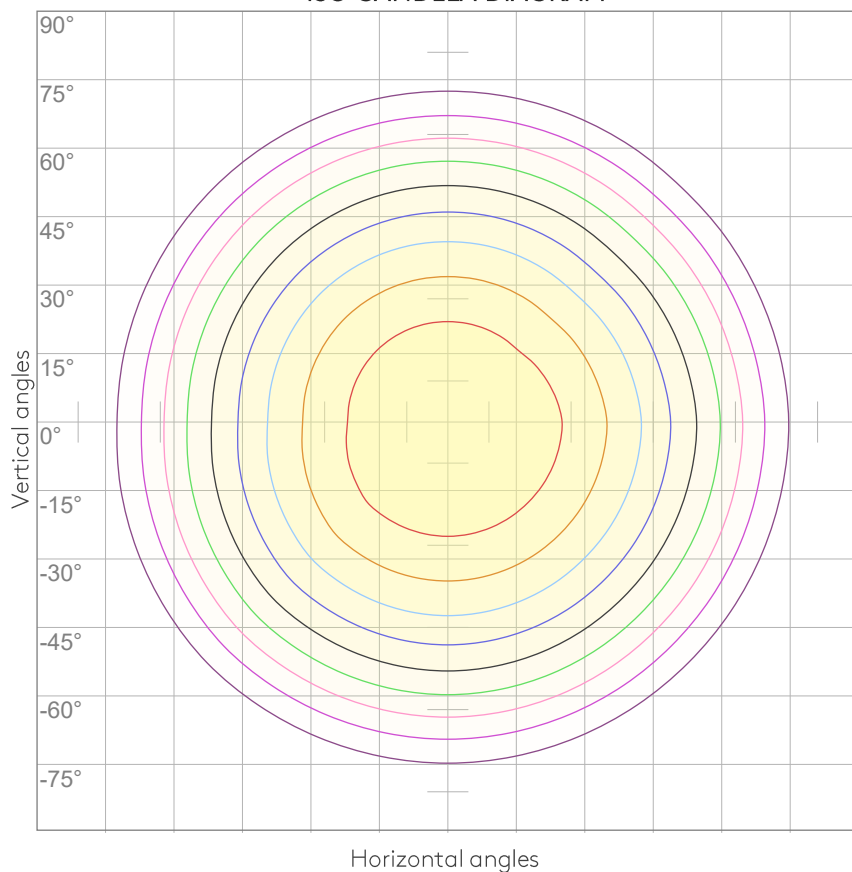
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
738	737	731	719	702	680	652	619	581	537	488	434	376	312	246	177	109	50	12	2
100%	100%	99%	97%	95%	92%	88%	84%	79%	73%	66%	59%	51%	42%	33%	24%	15%	7%	2%	0%

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
738	737	731	719	702	680	652	619	580	537	488	434	376	313	246	177	110	51	12	2
100%	100%	99%	97%	95%	92%	88%	84%	79%	73%	66%	59%	51%	42%	33%	24%	15%	7%	2%	0%

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
738	733	723	708	687	661	629	593	552	506	455	399	339	276	209	143	80	30	4	3
100%	99%	98%	96%	93%	90%	85%	80%	75%	69%	62%	54%	46%	37%	28%	19%	11%	4%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
118.1°	163.5°	176°	76.6%	51.3%

ISO CANDELA DIAGRAM



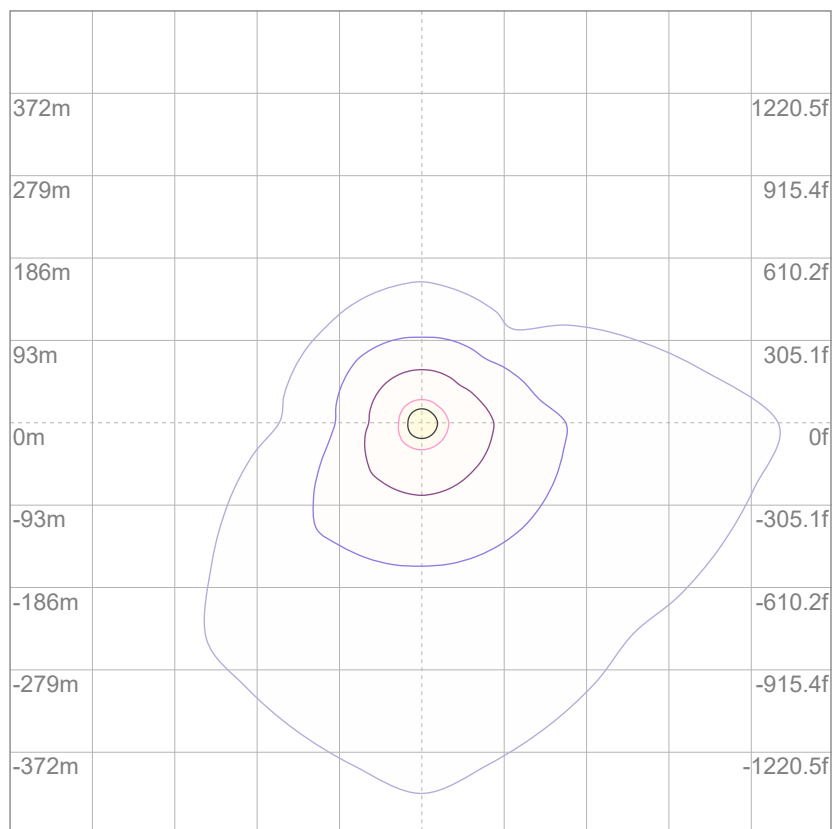
10%	74 cd
20%	148 cd
30%	221 cd
40%	295 cd
50%	369 cd
60%	443 cd
70%	517 cd
80%	590 cd
90%	664 cd

Conditions:

Number of c-planes: 8

Candela at center: 738 cd

ISO LUX DIAGRAM



3%	0.221 lx
5%	0.369 lx
10%	0.738 lx
30%	2.21 lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 7.38 lx

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

GLARE EVALUATION ACCORDING TO UGR

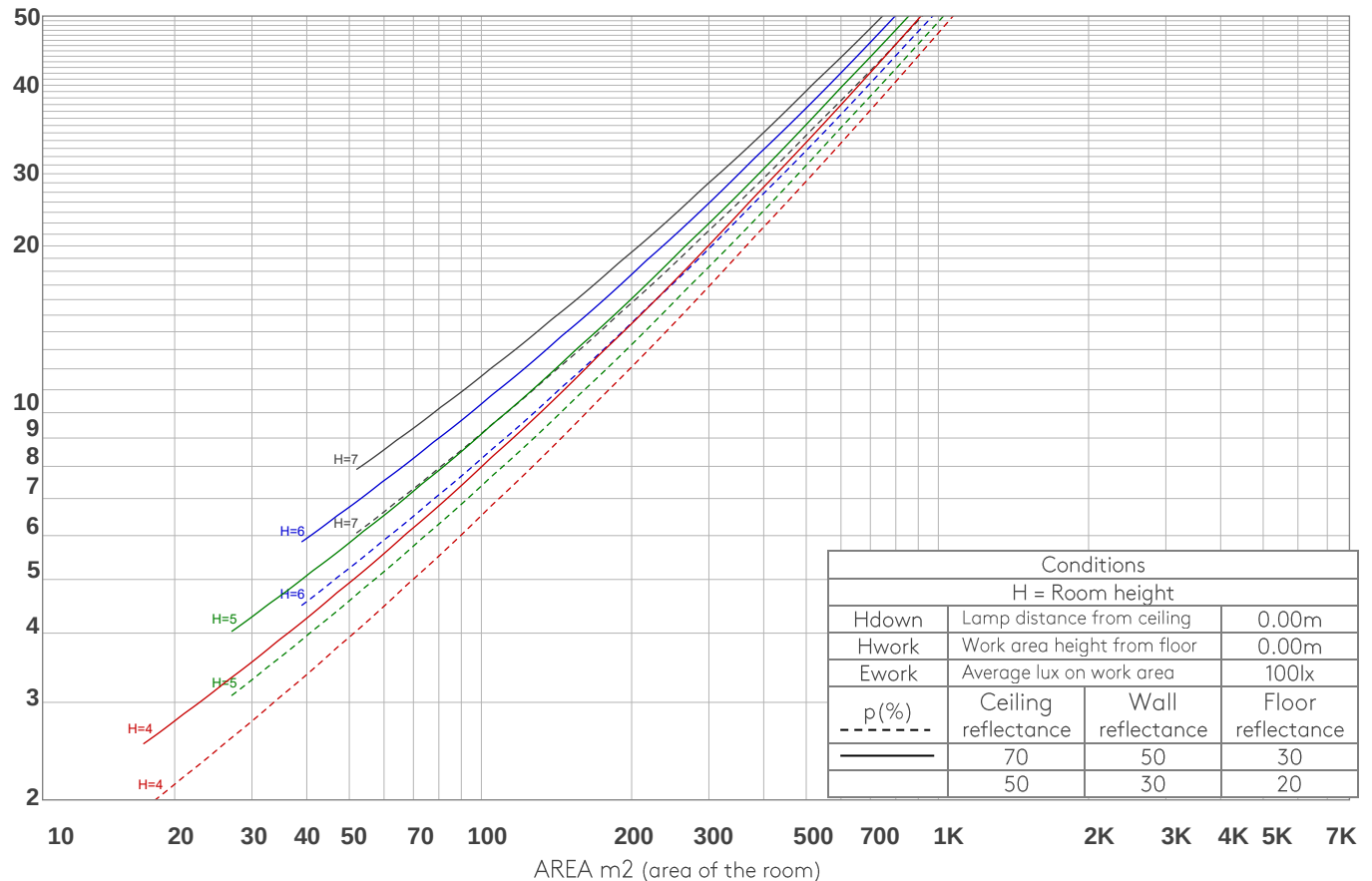
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

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	101	101	101	99
1	108	103	99	95	105	101	97	93	96	93	90	92	90	87	89	86	84	82
2	98	90	83	77	95	88	81	76	84	78	74	80	76	72	77	73	70	68
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48
5	75	62	53	46	73	60	52	45	58	51	45	56	49	44	54	48	44	41
6	69	55	46	40	67	54	46	40	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM

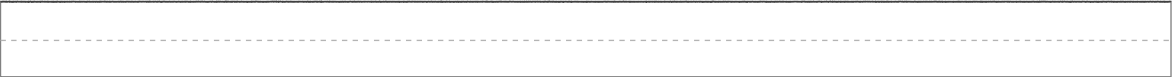


ZONAL LUMEN SUMMARY

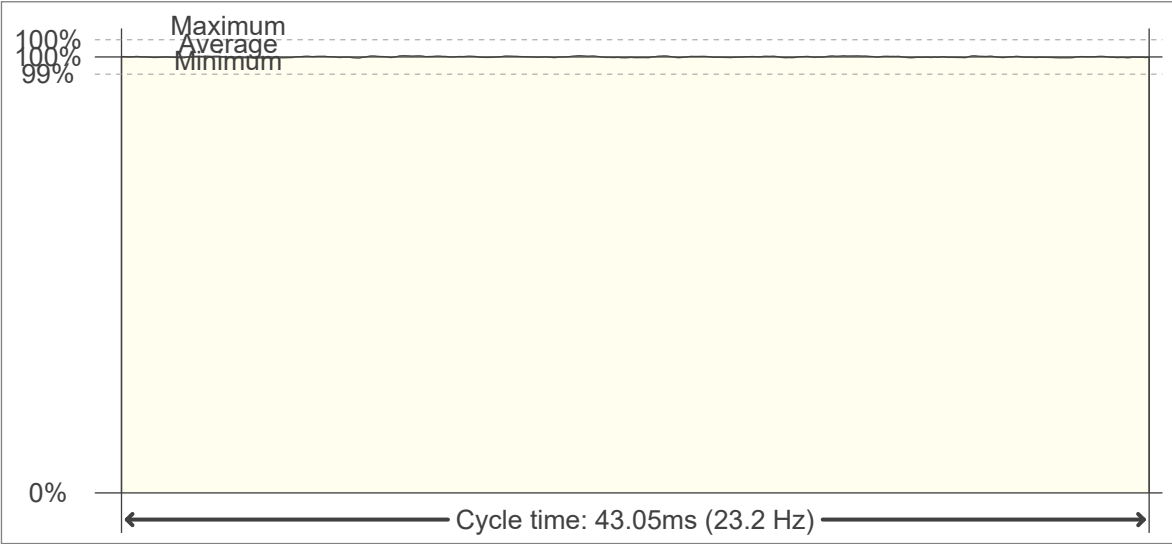
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
69.9 lm	201 lm	309 lm	379 lm	402 lm	372 lm	290 lm	169 lm	48.9 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
3.69 lm	2.82 lm	3.13 lm	3.16 lm	3.00 lm	2.65 lm	2.08 lm	1.33 lm	0.462 lm

FLICKER

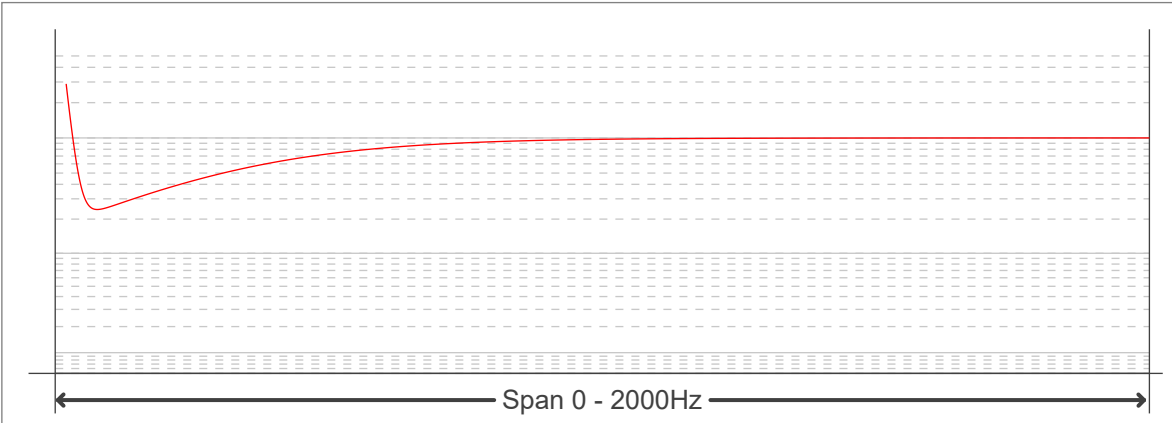
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	23.23 Hz
Flicker index:	0
Flicker percentage:	0.4 %
SVM: (Visual flicker)	0

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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