

PHOTOMETRIC TEST REPORT

ELBA CEILING BASE 460 CE
PHASE

astro

ELBA CEILING BASE 460 CE PHASE

astro

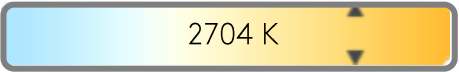
LIGHT EFFICIENCY:



LIGHT QUALITY:



COLOR TEMPERATURE:

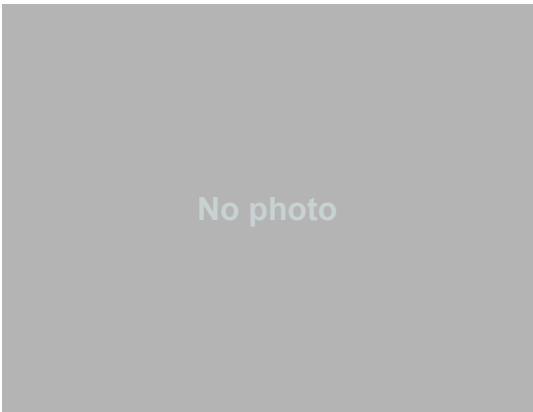


OUTPUT: 2161 lm

PEAK: 705 cd

POWER: 22.8 W

PF: 0.94



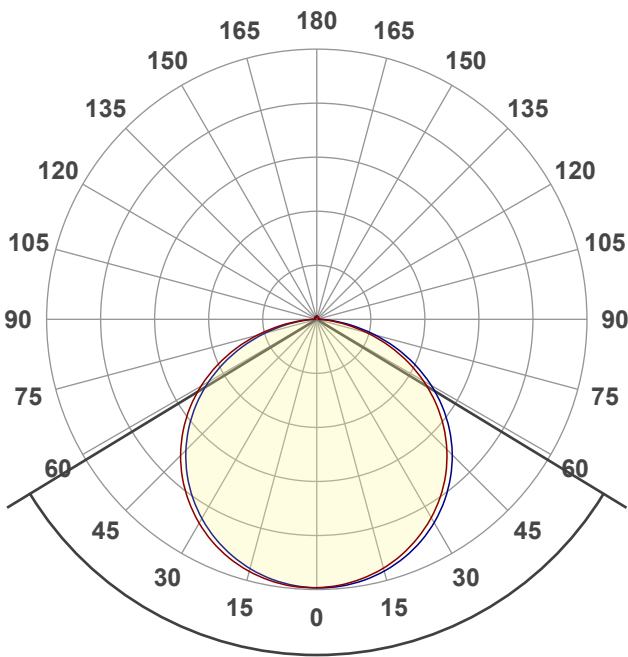
Tracking number: [n/a](#)

Product name:
Elba Ceiling Base 460 CE Phase

Item number:
1462016

Date and time:
12/12/2025 11:53:20

Description:

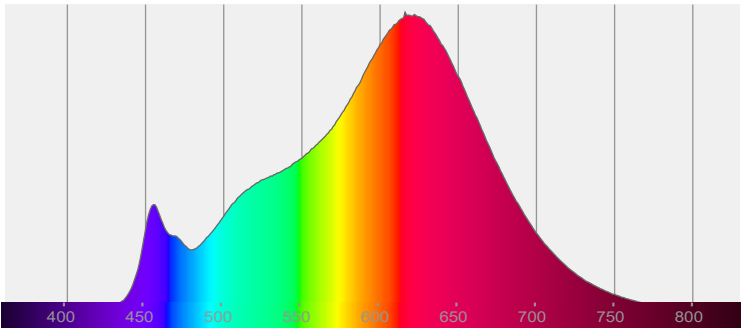


117.4°

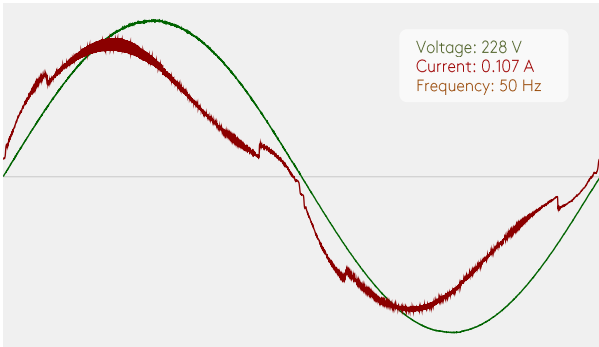


CIE 1931
x: 0.460
y: 0.411

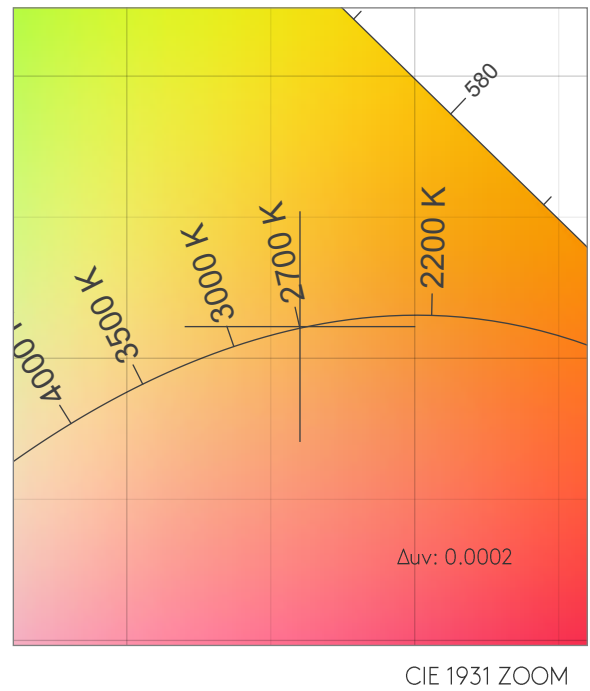
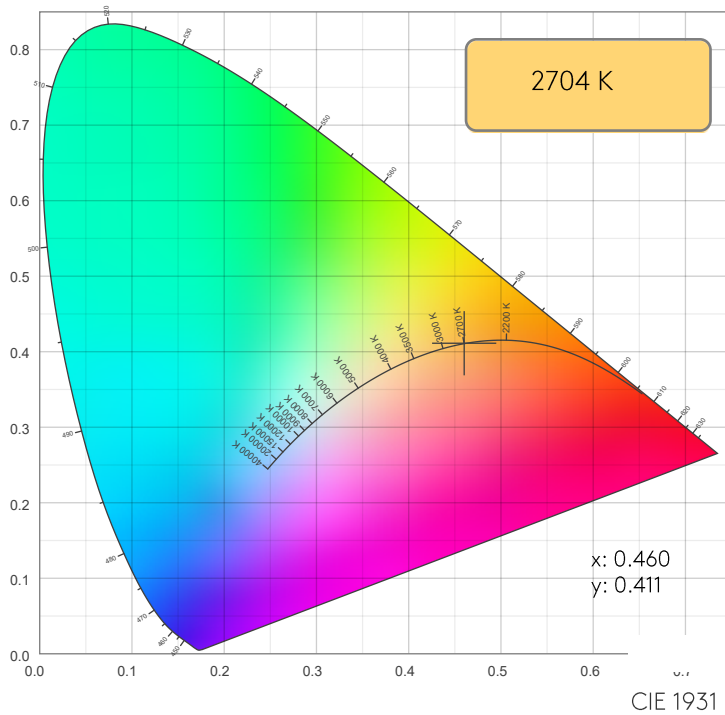
SPECTRA



POWER

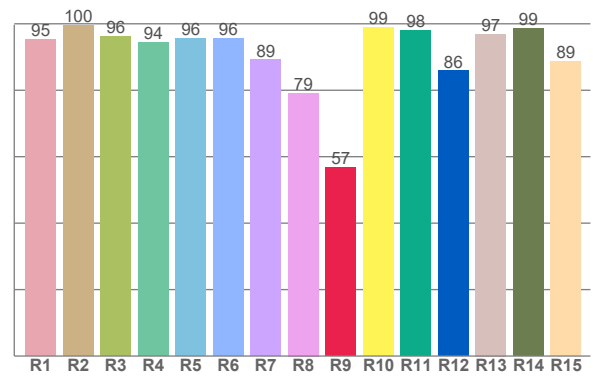
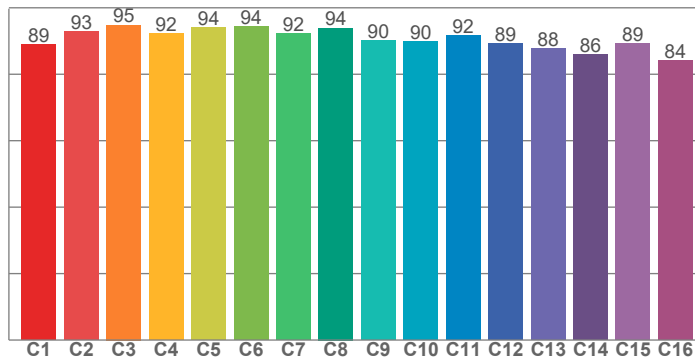


COLOR DETAILS



TM30: 90.7

CRI: 93.1 (R1-R8)



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

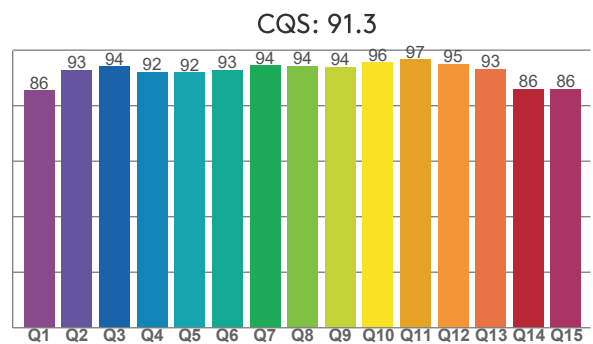
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.2	99.6	96.1	94.5	95.7	95.6	89.2	79.2	56.7	98.8	98.1	85.8	96.9	98.7	88.7

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
88.9	92.8	94.8	92.2	93.9	94.5	92.2	93.9	90.1	89.7	91.5	89.2	87.6	85.9	89.1	84.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85.5	92.9	94.2	92.1	91.9	92.8	94.5	94.3	94.0	95.6	96.7	95.0	93.1	86.1	86.1



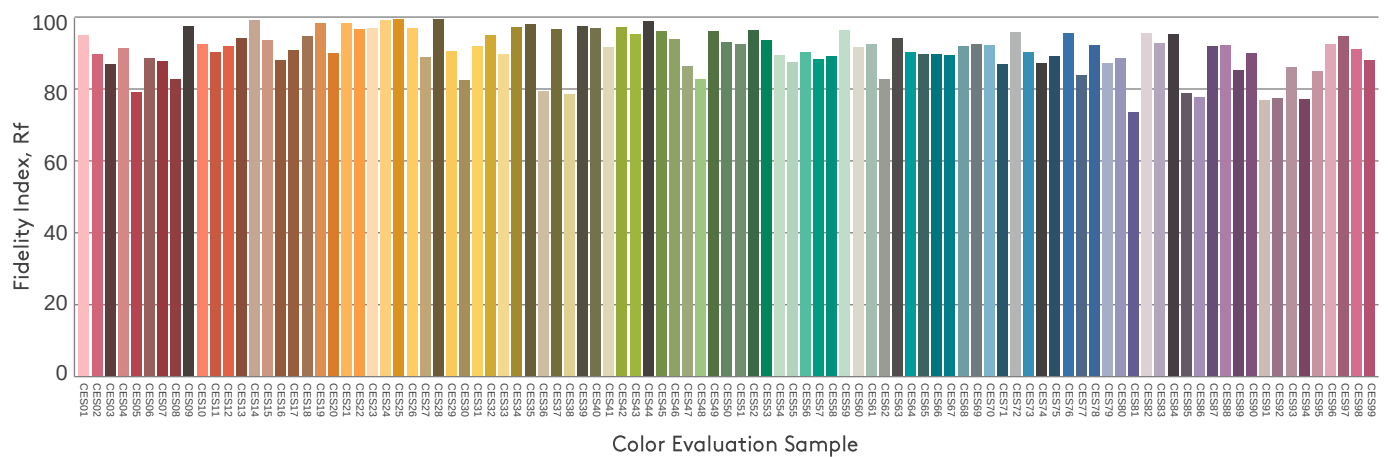
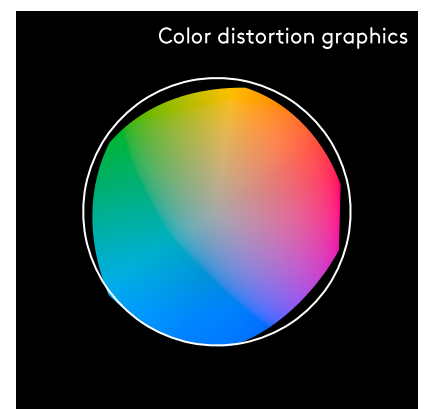
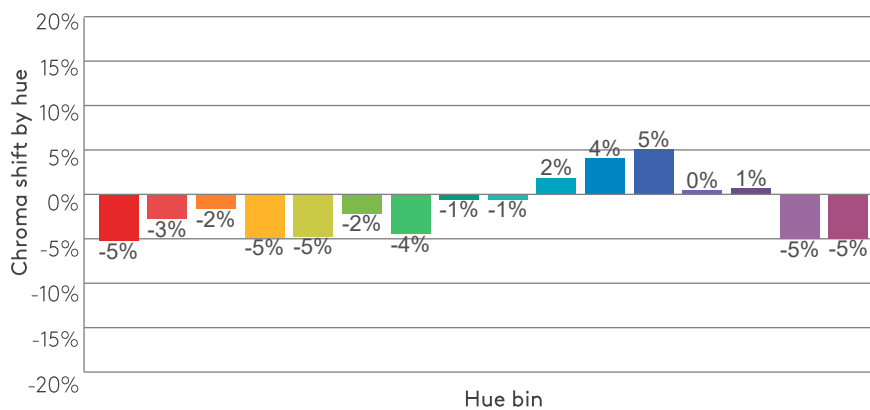
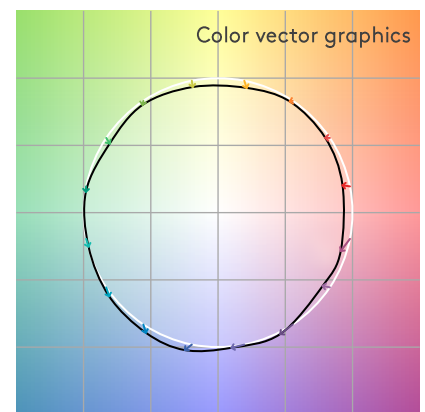
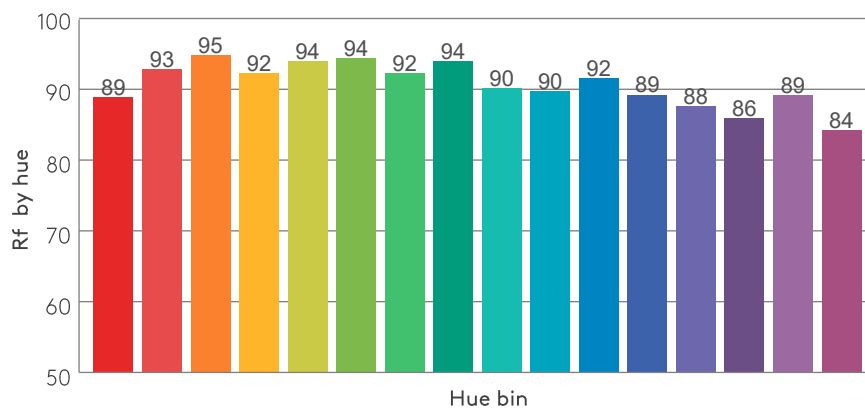
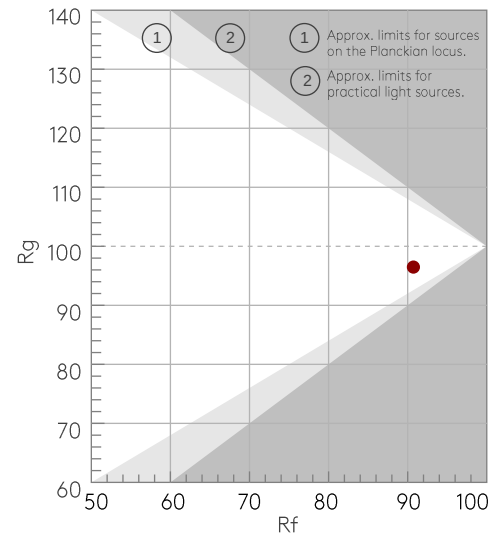
COLOR PARAMETERS

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
2704 K	93.1	56.7	90.7	96.5	91.3	0.460	0.411	0.262	0.352	0.0002

Rf 90.7
Fidelity index Rf

Rg 96.5
Gammut index Rg

Hue Bin	Rf	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	94	-2%	2%
7	92	-4%	2%
8	94	-1%	4%
9	90	-1%	6%
10	90	2%	7%
11	92	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 the beam spread of a 100W PAR38 beam light. The light source is a yellow bulb with a beam angle of 117.4°. The beam is shown as a cone that widens as it travels. The distance from the light source to the measurement points is given in both meters and feet. The beam width at each distance is also provided. The footcandle (fcd) and lux (lx) values are measured at the center of the beam.

Distance (meter)	Distance (feet)	Beam width (meter)	Beam width (feet)	Footcandles*	Lux*
1 m	3,3 ft	3.3 m	10.9 ft	65 fcd	705 lx
2 m	6,6 ft	6.6 m	21.7 ft	16 fcd	176 lx
3 m	9,8 ft	9.9 m	32.2 ft	7 fcd	78 lx
4 m	13,1 ft	13.2 m	43.1 ft	4 fcd	44 lx
5 m	16,4 ft	16.4 m	53.9 ft	3 fcd	28 lx

*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
705lx	176lx	78lx	44lx	28lx	20lx	14lx	11lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx
65.5fcd	16.4fcd	7.3fcd	4.1fcd	2.6fcd	1.8fcd	1.3fcd	1fcd	0.8fcd	0.7fcd	0.5fcd	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°
705	700	691	676	656	631	601	567	527	483	434	380	323	263	200	137	78	30	6	4
100%	99%	98%	96%	93%	90%	85%	80%	75%	69%	62%	54%	46%	37%	28%	19%	11%	4%	1%	1%

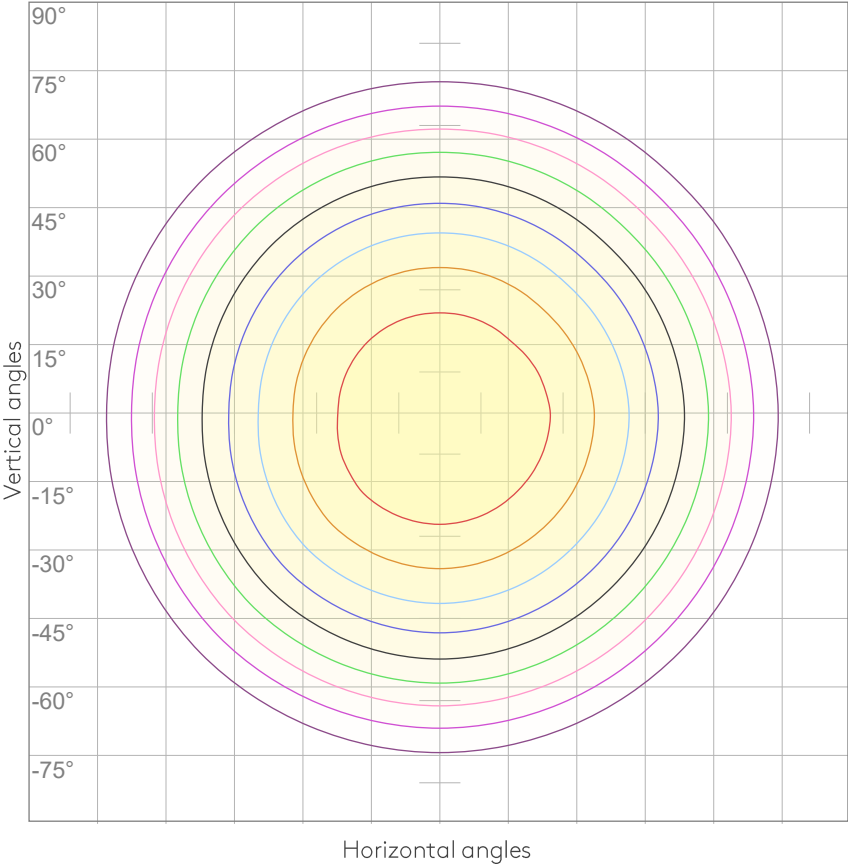
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
705	703	697	684	667	644	616	583	545	503	456	404	347	287	223	158	96	43	11	5
100%	100%	99%	97%	95%	91%	87%	83%	77%	71%	65%	57%	49%	41%	32%	22%	14%	6%	2%	1%

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
705	704	697	685	668	646	618	585	548	506	459	407	351	291	228	163	99	46	12	5
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	65%	58%	50%	41%	32%	23%	14%	6%	2%	1%

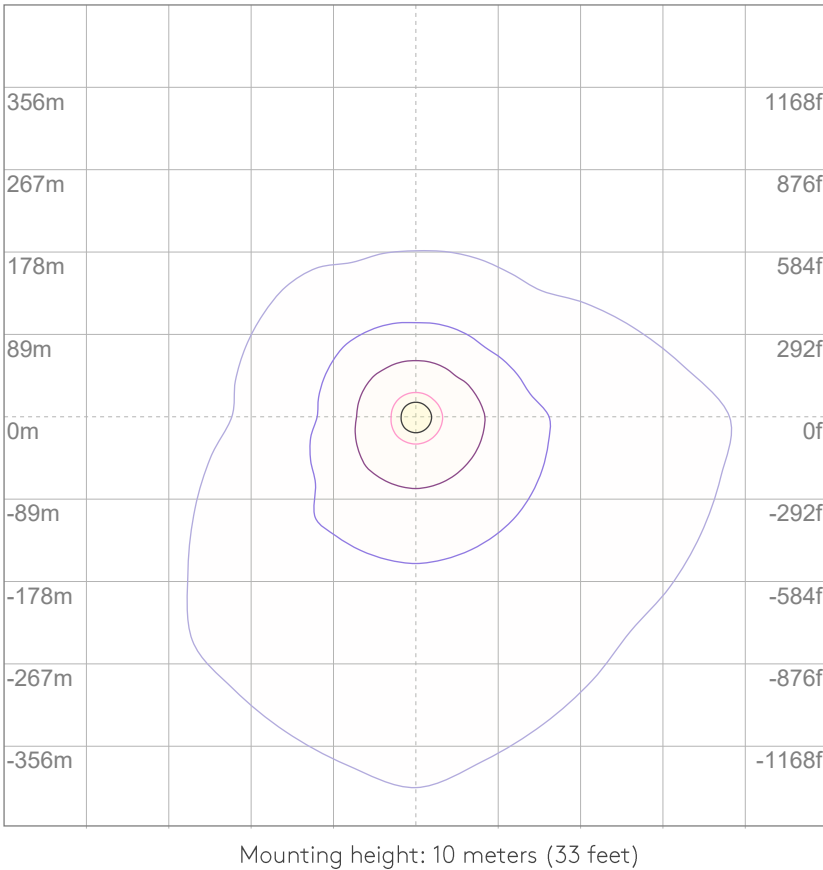
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
705	701	692	677	658	633	604	569	530	486	437	385	328	267	205	142	82	33	7	4
100%	99%	98%	96%	93%	90%	86%	81%	75%	69%	62%	55%	47%	38%	29%	20%	12%	5%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
117.4°	163.5°	176.6°	76.1%	51.1%

ISO CANDELA DIAGRAM



ISO LUX DIAGRAM



GLARE EVALUATION ACCORDING TO UGR

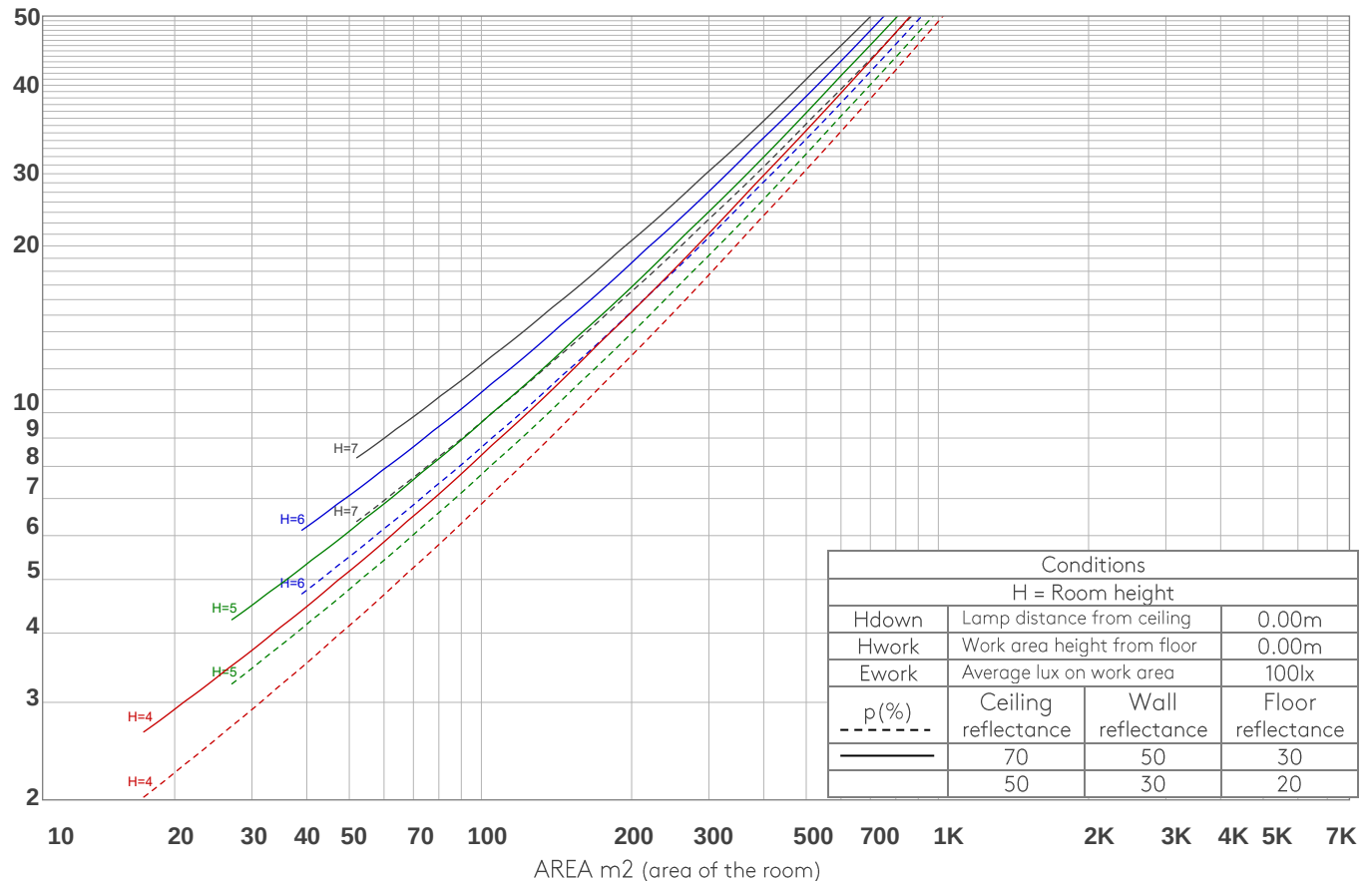
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

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	110	110	110	105	105	105	100	100	100	98
1	108	103	99	95	105	101	97	93	96	93	90	92	89	87	88	86	84	82
2	98	90	83	77	95	87	81	76	84	78	74	80	76	72	77	73	70	67
3	89	78	70	63	86	77	69	63	73	67	61	70	65	60	68	63	59	56
4	81	69	60	53	79	68	59	53	65	58	52	62	56	51	60	55	50	48
5	75	62	53	46	73	60	52	45	58	51	45	56	49	44	54	48	43	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	44	38	34	32
8	59	46	37	31	58	45	37	31	43	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

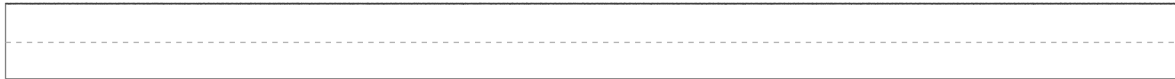


ZONAL LUMEN SUMMARY

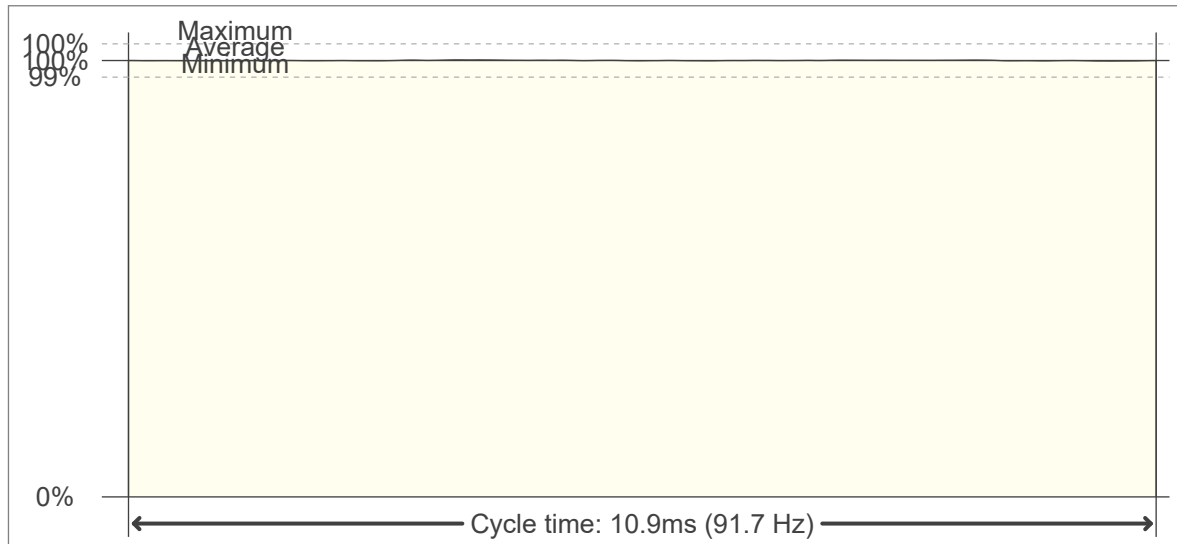
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
66.7 lm	192 lm	294 lm	360 lm	381 lm	352 lm	273 lm	159 lm	46.7 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5.97 lm	5.24 lm	5.34 lm	5.18 lm	4.85 lm	4.24 lm	3.34 lm	2.15 lm	0.741 lm

FLICKER

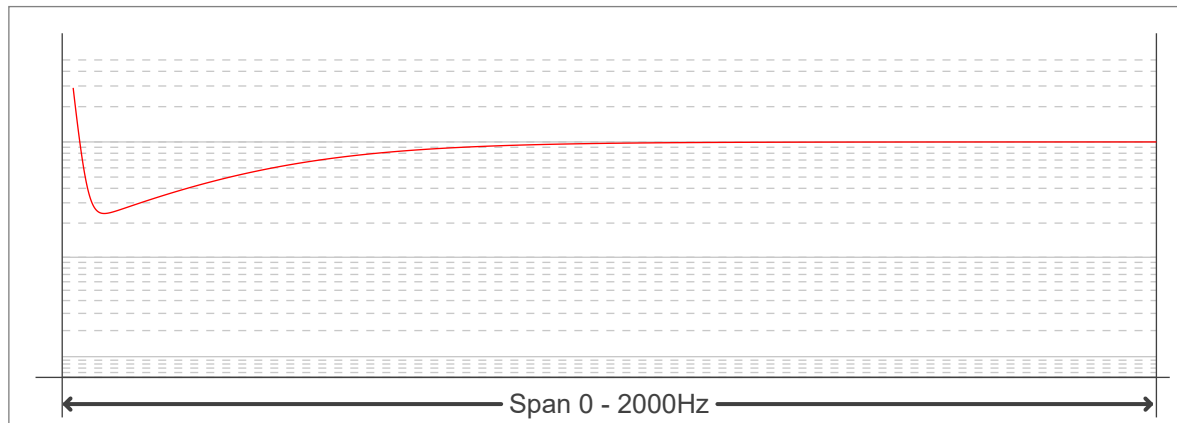
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	91.74 Hz
Flicker index:	0
Flicker percentage:	0.35 %
SVM: (Visual flicker)	0

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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