

# PHOTOMETRIC TEST REPORT

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TILE 340 - 0-10V UL

astro

LIGHT EFFICIENCY:



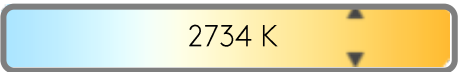
OUTPUT: 912 lm

LIGHT QUALITY:



PEAK: 206 cd

COLOR TEMPERATURE:



POWER: 14.7 W

PF: 0.99



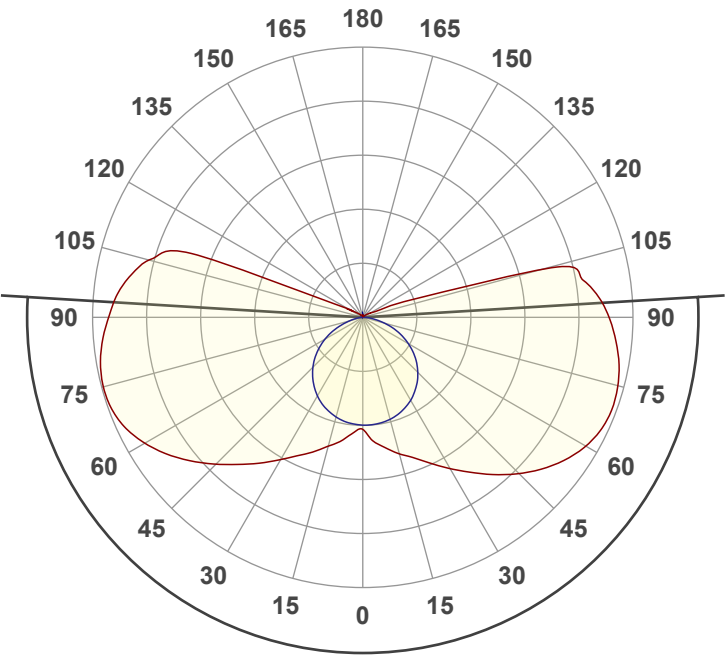
Tracking number: [n/a](#)

Product name:  
Tile 340 - 0-10V UL

Item number:  
1493012

Date and time:  
11/07/2025 10:42:31

Description:

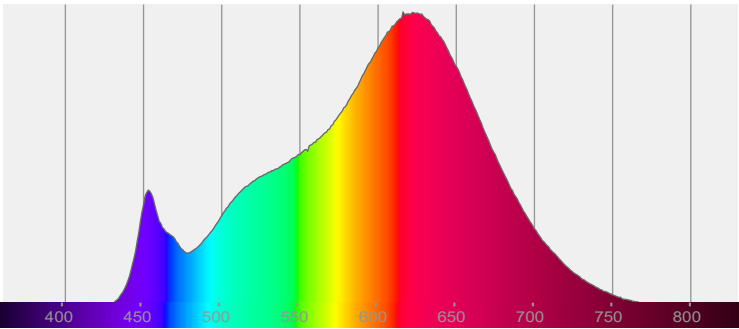


186.9°

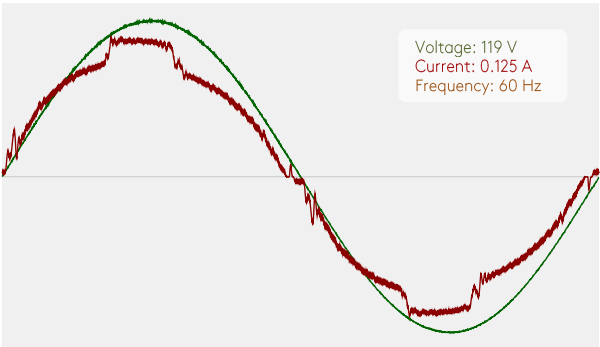


CIE 1931  
x: 0.455  
y: 0.406

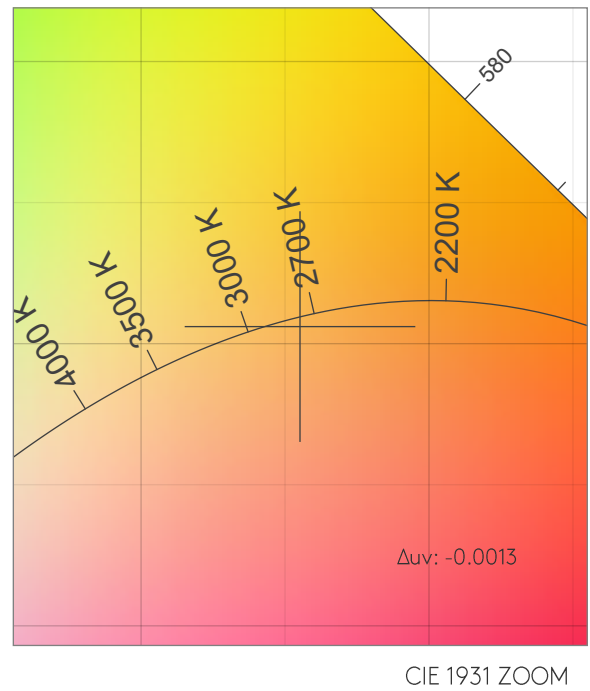
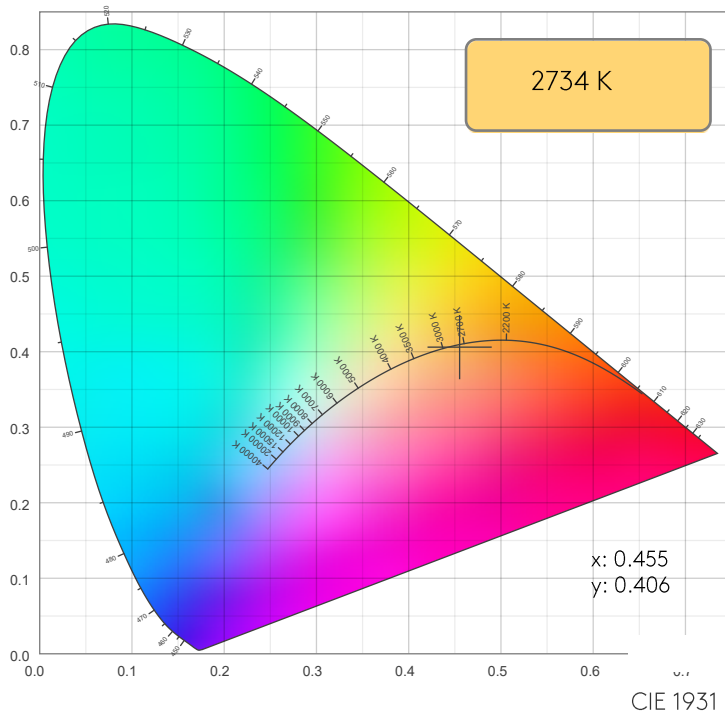
SPECTRA



POWER

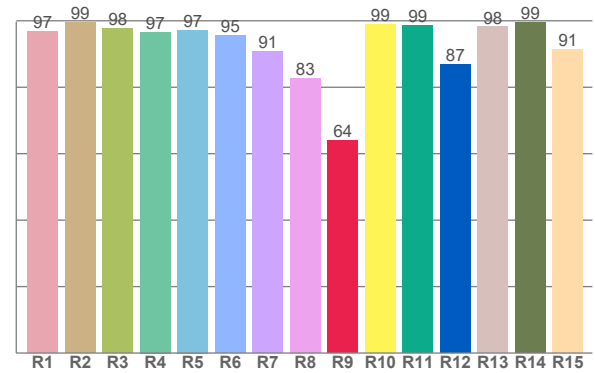
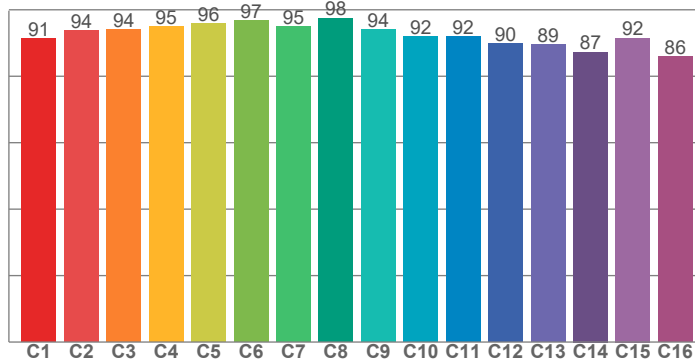


## COLOR DETAILS



TM30: 92.6

CRI: 94.6 (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
96.7	99.5	97.6	96.6	97.2	95.5	90.8	82.8	64.0	99.0	98.5	86.8	98.2	99.5	91.4

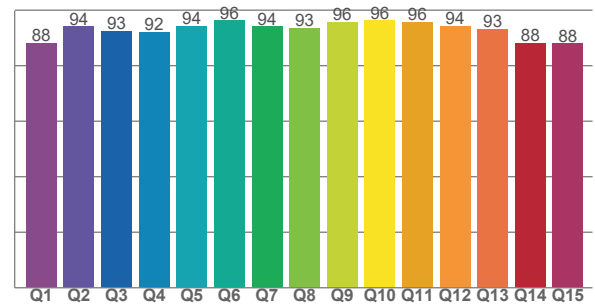
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.4	93.8	94.0	94.9	95.7	96.6	94.9	97.5	94.0	92.0	92.0	89.9	89.5	87.3	91.5	85.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88.1	94.1	92.6	92.2	94.2	96.2	94.1	93.5	95.8	96.3	95.7	94.3	93.1	88.1	88.0

CQS: 92.3



## 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	$\Delta uv$
2734 K	94.6	64.0	92.6	99.0	92.3	0.455	0.406	0.262	0.350	-0.0013

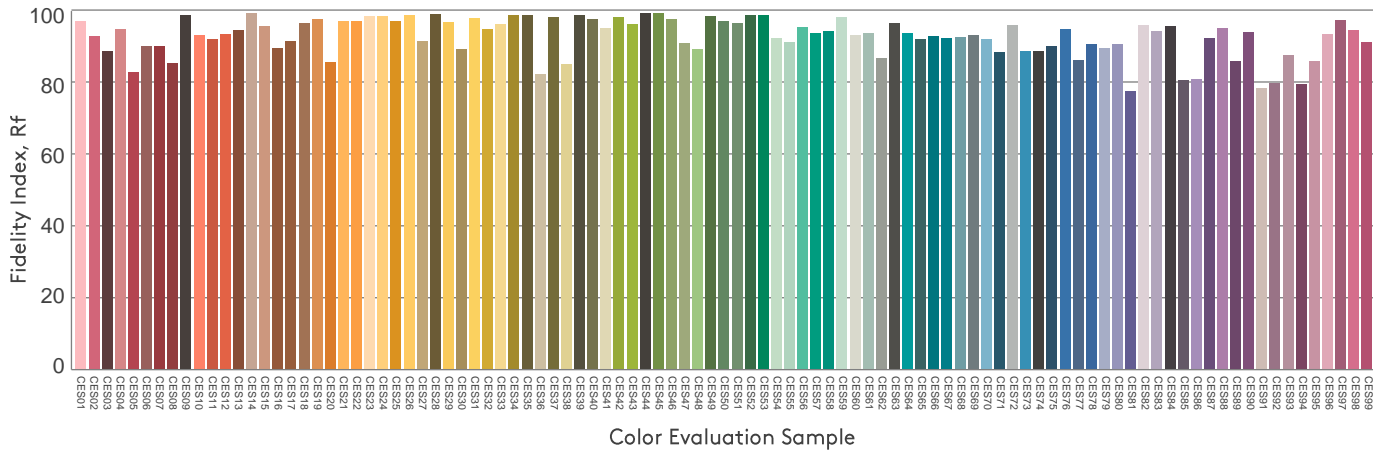
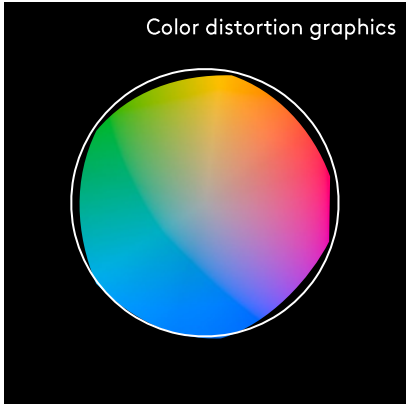
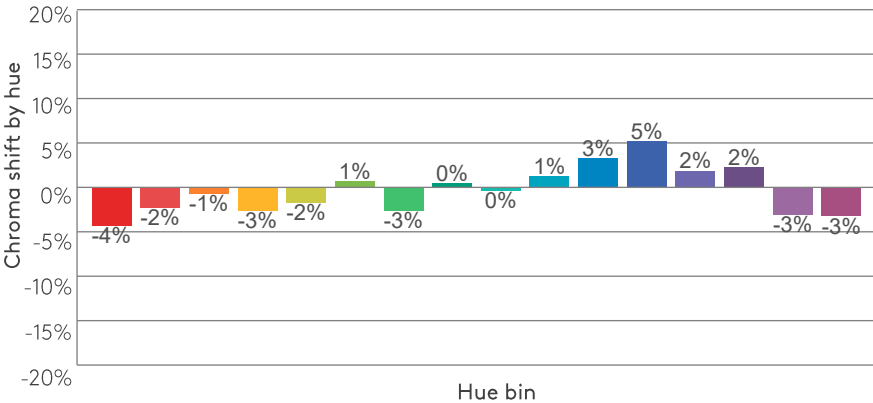
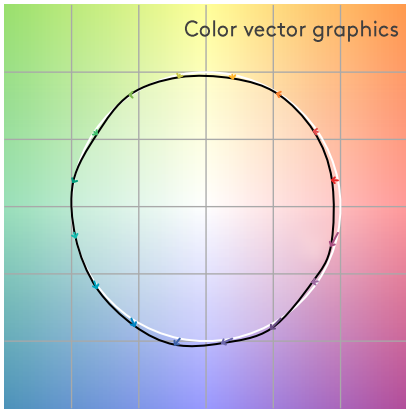
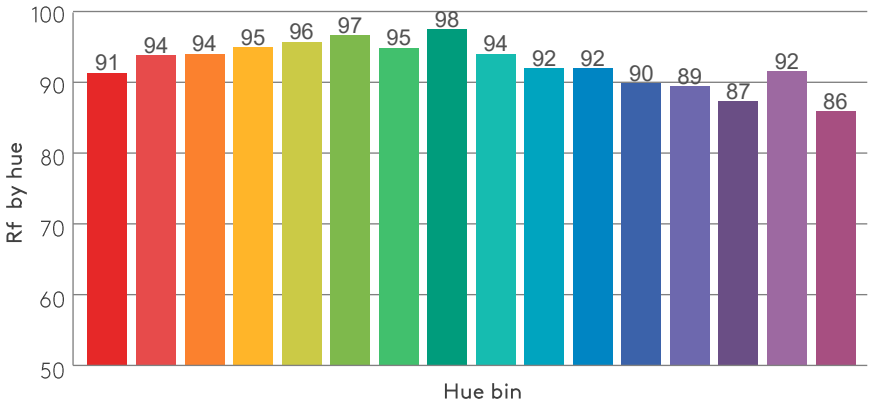
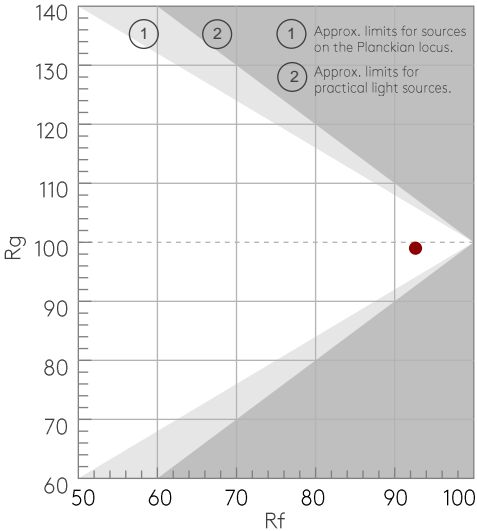
Rf 92.6

Fidelity index Rf

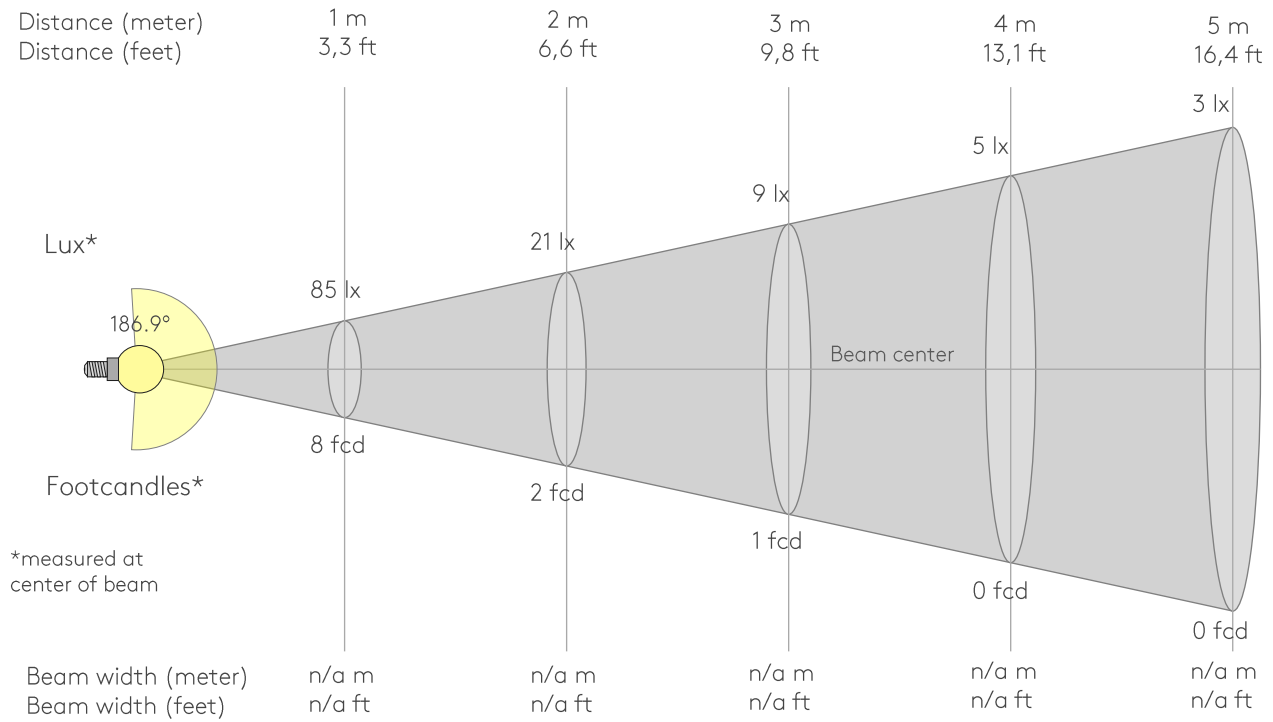
Rg 99.0

Gammut index Rg

Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	-4%	1%
2	94	-2%	2%
3	94	-1%	3%
4	95	-3%	-1%
5	96	-2%	1%
6	97	1%	1%
7	95	-3%	0%
8	98	0%	1%
9	94	0%	4%
10	92	1%	5%
11	92	3%	5%
12	90	5%	-3%
13	89	2%	-8%
14	87	2%	-10%
15	92	-3%	-3%
16	86	-3%	-10%



## 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
85lx	21lx	9lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
7.9fcd	2fcd	0.9fcd	0.5fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
85	101	112	128	148	170	189	201	204	199	189	173	76	9	4	1	1	1	1	1
100%	118%	132%	150%	174%	200%	222%	236%	239%	234%	222%	203%	89%	10%	5%	2%	2%	1%	2%	2%

Intensities in 90° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
85.1	82.3	80.0	75.5	68.6	59.7	48.8	36.0	22.2	8.8	1.7	0.7	0.7	0.8	0.8	0.9	0.9	0.9	1.0	1.1
100%	97%	94%	89%	81%	70%	57%	42%	26%	10%	2%	1%	1%	1%	1%	1%	1%	1%	1%	1%

Intensities in 180° c-plane

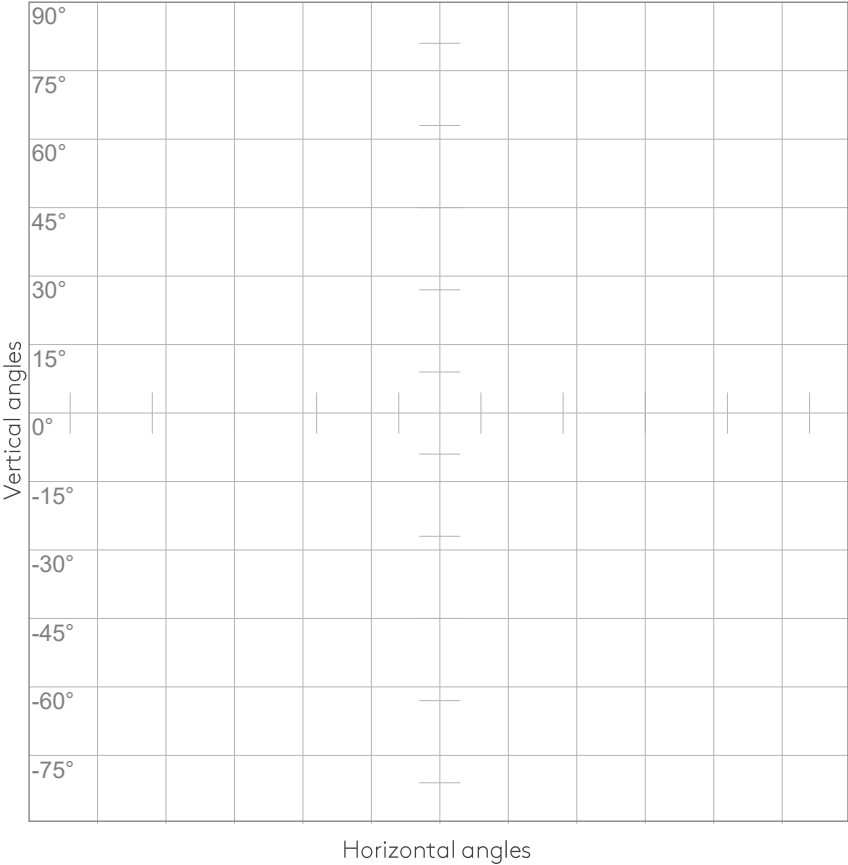
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
85	95	107	121	139	160	181	198	206	204	195	183	154	20	6	3	2	2	2	2
100%	112%	126%	142%	163%	188%	213%	233%	242%	240%	230%	215%	181%	23%	7%	4%	2%	2%	2%	2%

Intensities in 270° c-plane

0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
85.1	81.4	77.7	72.0	64.0	54.1	42.3	29.0	14.9	4.8	0.8	0.8	0.9	0.9	1.0	1.1	1.1	1.1	1.1	1.1
100%	96%	91%	85%	75%	64%	50%	34%	17%	6%	1%	1%	1%	1%	1%	1%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
186.9°	205.8°	226.4°	38.0%	21.0%

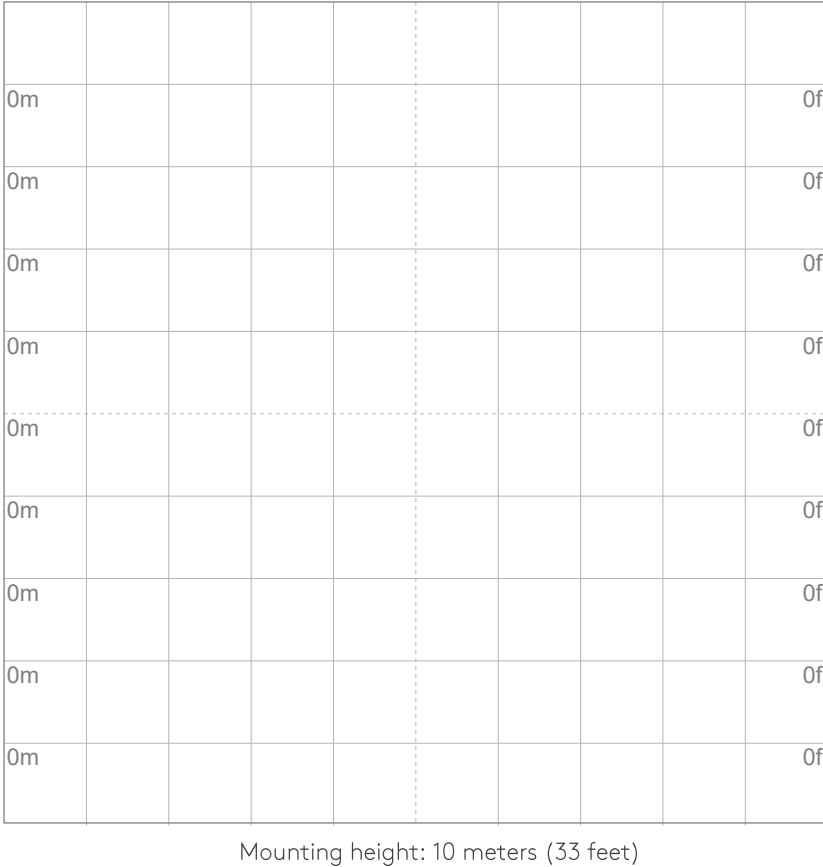
ISO CANDELA DIAGRAM



- 10% 9 cd
- 20% 17 cd
- 30% 26 cd
- 40% 34 cd
- 50% 43 cd
- 60% 51 cd
- 70% 60 cd
- 80% 68 cd
- 90% 77 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 85 cd

ISO LUX DIAGRAM



- 3% 25.5m lx
- 5% 42.5m lx
- 10% 85.1m lx
- 30% 0.255 lx
- 50% {LUX\_10M50} lx

Conditions:  
Number of c-planes: 8  
Lux at center: 0.851 lx

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

### GLARE EVALUATION ACCORDING TO UGR

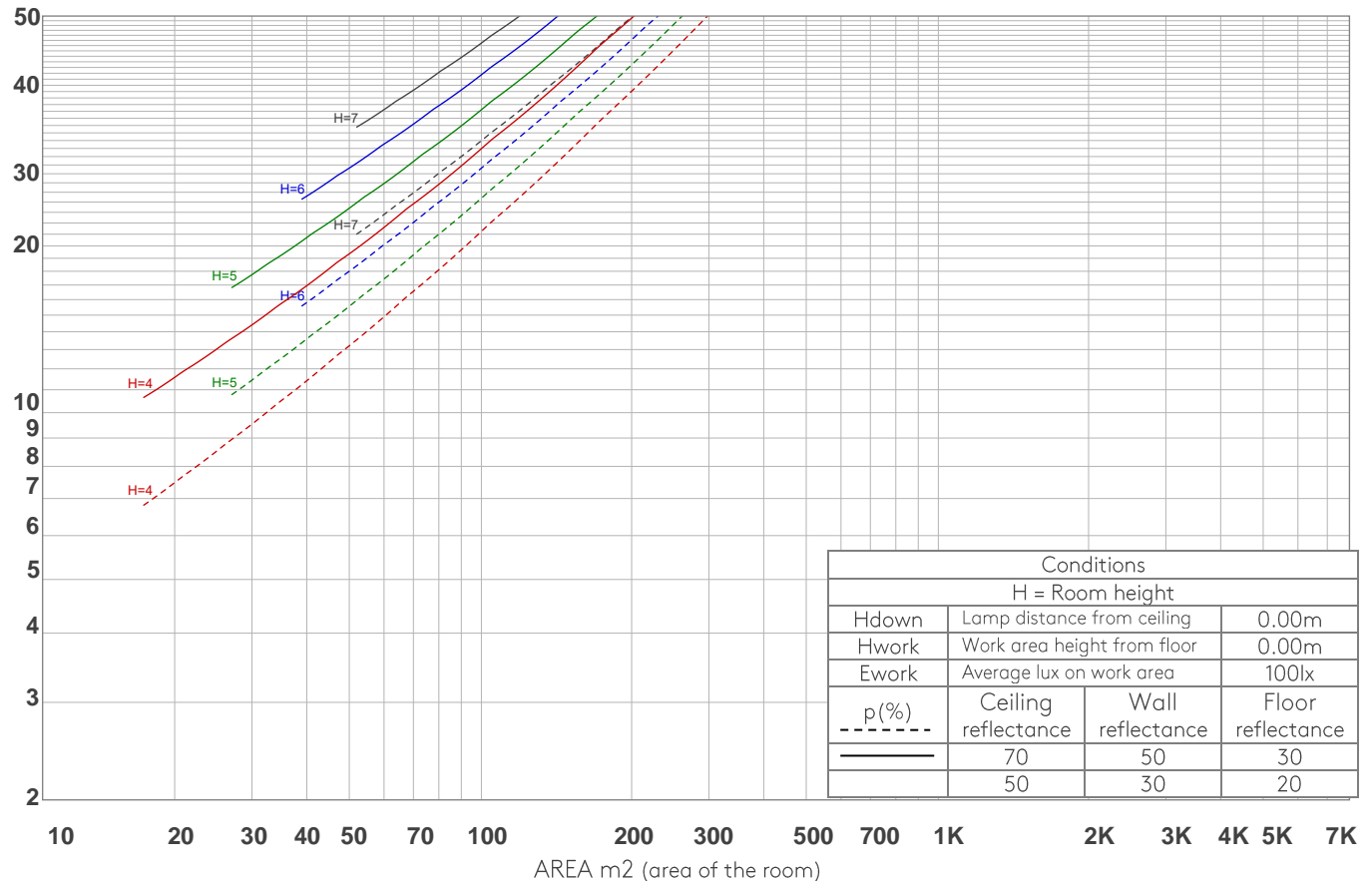
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

## 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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	97	90	83	77	92	86	80	74	77	72	68	69	65	62	62	59	56	52
2	86	75	66	58	81	71	63	55	64	57	51	57	51	46	51	46	42	39
3	77	64	53	45	72	60	51	43	54	46	40	48	42	36	43	38	33	30
4	69	55	45	36	65	52	43	35	47	39	32	42	35	29	37	31	27	24
5	63	48	38	30	59	46	36	29	41	33	27	37	30	24	33	27	22	19
6	58	43	33	25	54	41	31	24	37	29	23	33	26	21	29	23	19	16
7	53	38	29	22	50	37	27	21	33	25	19	30	23	18	26	21	16	14
8	49	35	25	19	47	33	24	18	30	22	17	27	20	15	24	18	14	12
9	46	32	23	17	43	30	22	16	27	20	15	25	18	14	22	17	12	10
10	43	29	20	15	41	28	20	14	25	18	13	23	17	12	21	15	11	9

LAMPS (number of lamps)

## LUMINAIRE BUDGETARY DIAGRAM



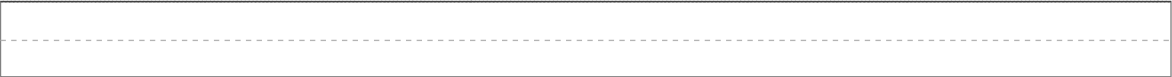
## ZONAL LUMEN SUMMARY

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
8.61 lm	27.1 lm	46.7 lm	67.2 lm	88.4 lm	108 lm	123 lm	127 lm	122 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
109 lm	66.3 lm	12.4 lm	2.45 lm	1.16 lm	0.799 lm	0.600 lm	0.362 lm	0.124 lm

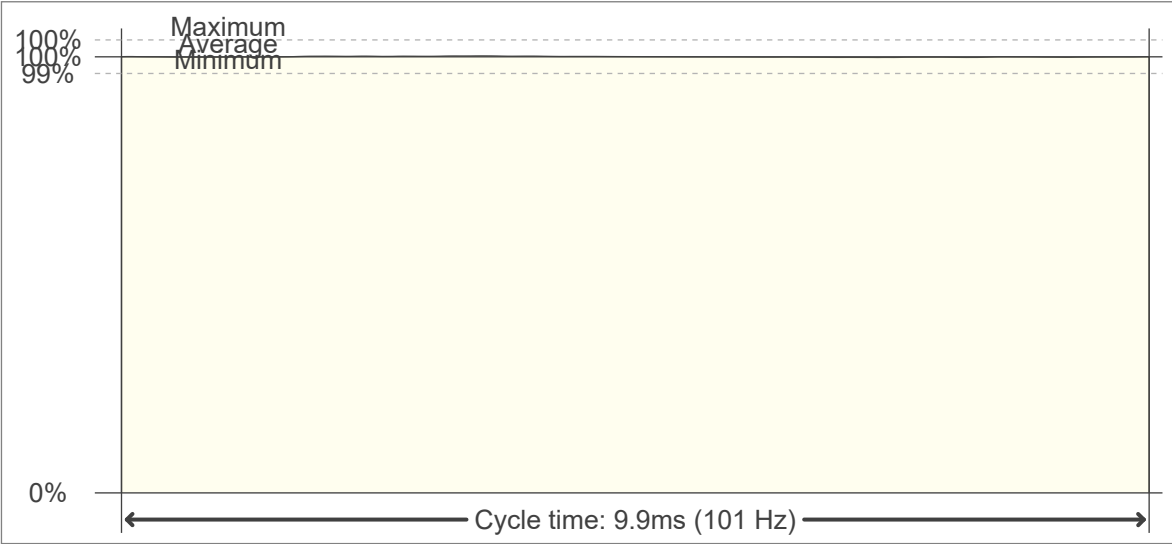


FLICKER

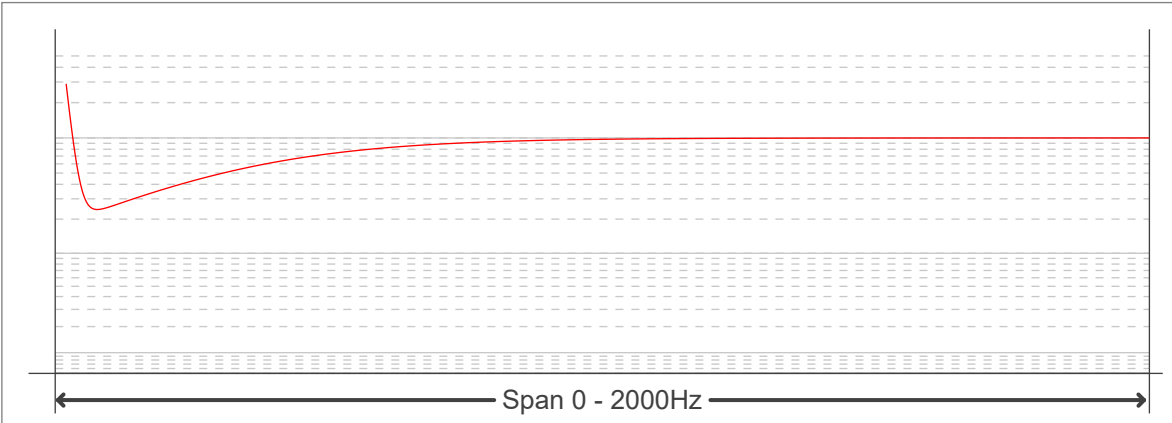
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	101.01 Hz
Flicker index:	0
Flicker percentage:	0.28 %
SVM: (Visual flicker)	0

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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