

PHOTOMETRIC TEST REPORT

DIGIT II LED MATT WHITE

astro

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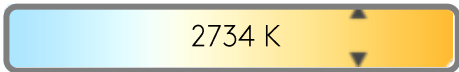
LIGHT EFFICIENCY:



LIGHT QUALITY:



COLOR TEMPERATURE:



OUTPUT: 131 lm

PEAK: 370 cd

POWER: 4.8 W

PF: 0.47



Tracking number: [n/a](#)

Product name:

Digit II LED Matt White

Item number:

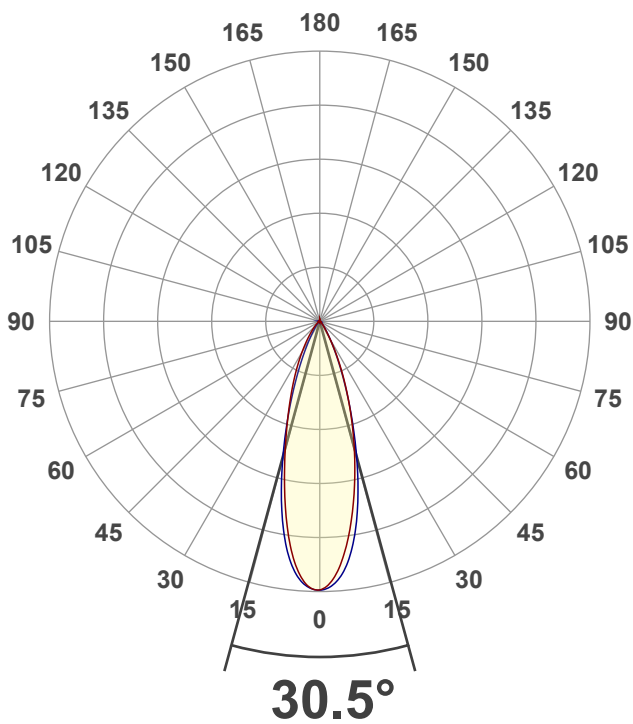
1323038

Date and time:

17/02/2022 13:00:12

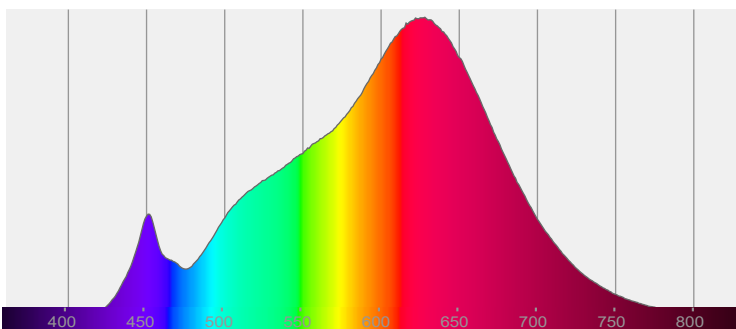
Description:

LED Reading Light
Forge 2035-927 LED

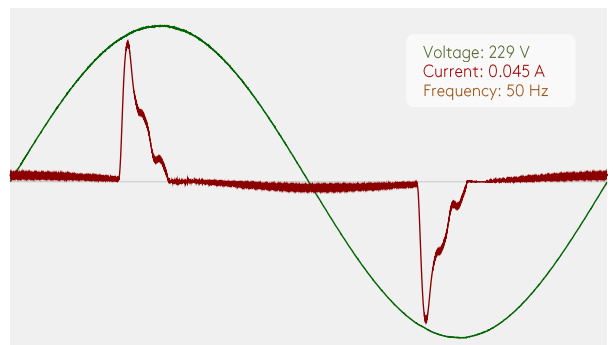


CIE 1931
x: 0.458
y: 0.411

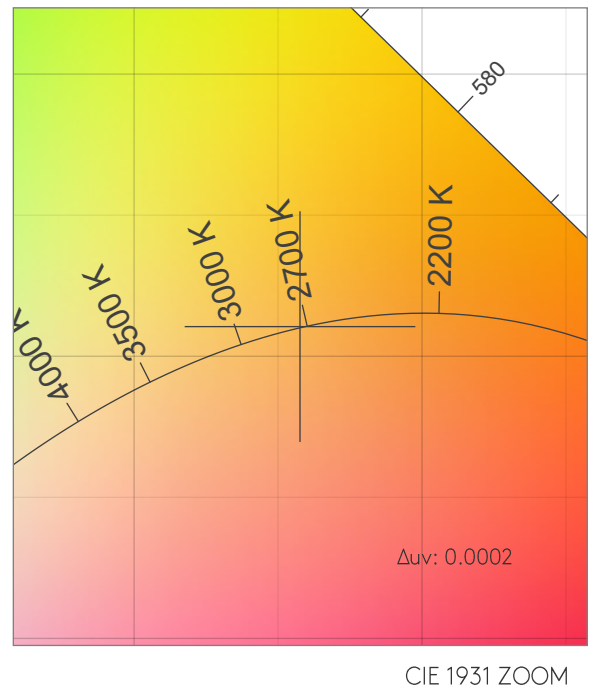
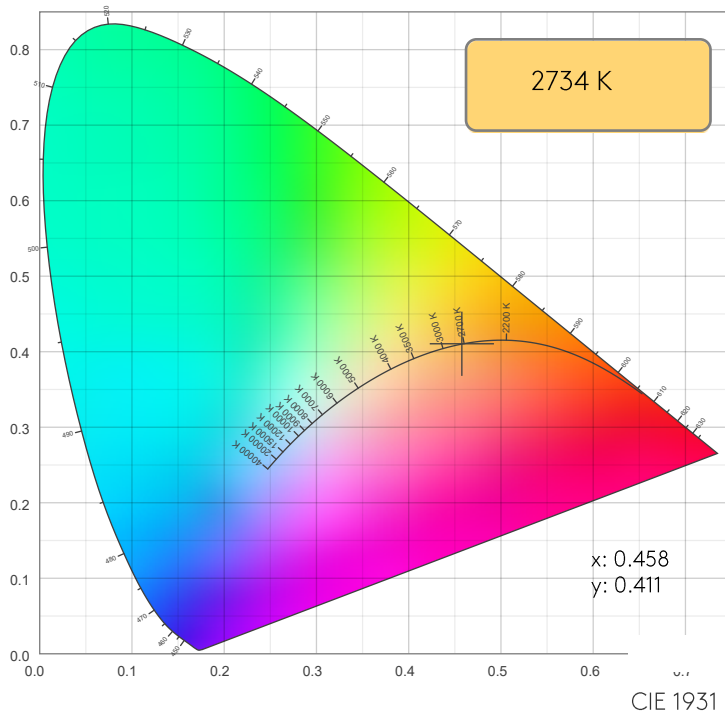
SPECTRA



POWER

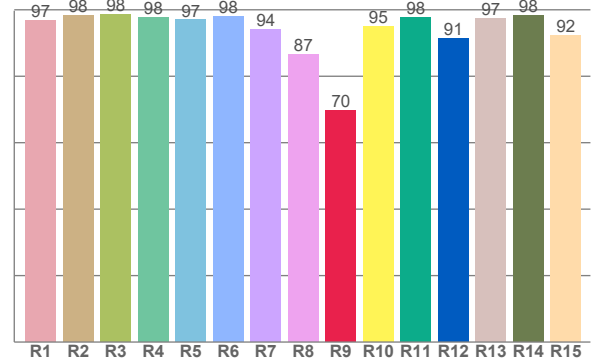
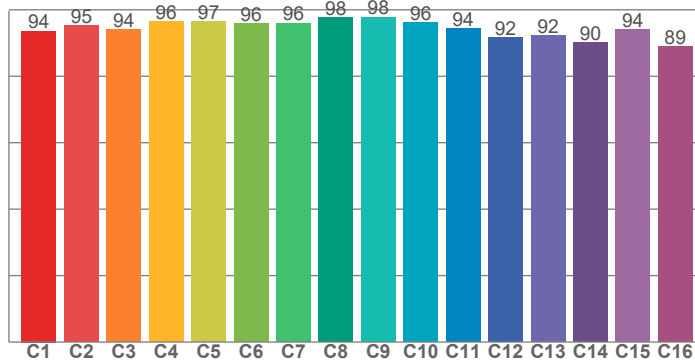


COLOR DETAILS



TM30: 94.5

CRI: 95.8 (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
96.8	98.2	98.5	97.6	97.0	98.0	94.0	86.5	69.7	95.1	97.8	91.4	97.4	98.2	92.2

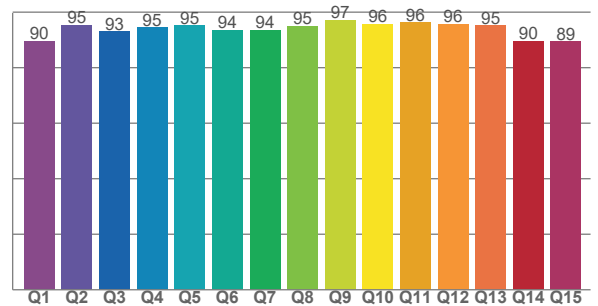
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
93.6	95.3	94.0	96.4	96.5	95.9	96.0	97.7	97.8	96.1	94.3	91.7	92.2	90.2	94.0	88.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
89.7	95.3	93.0	94.5	95.2	93.6	93.6	94.9	97.2	95.7	96.2	95.8	95.1	89.6	89.4

CQS: 93.2



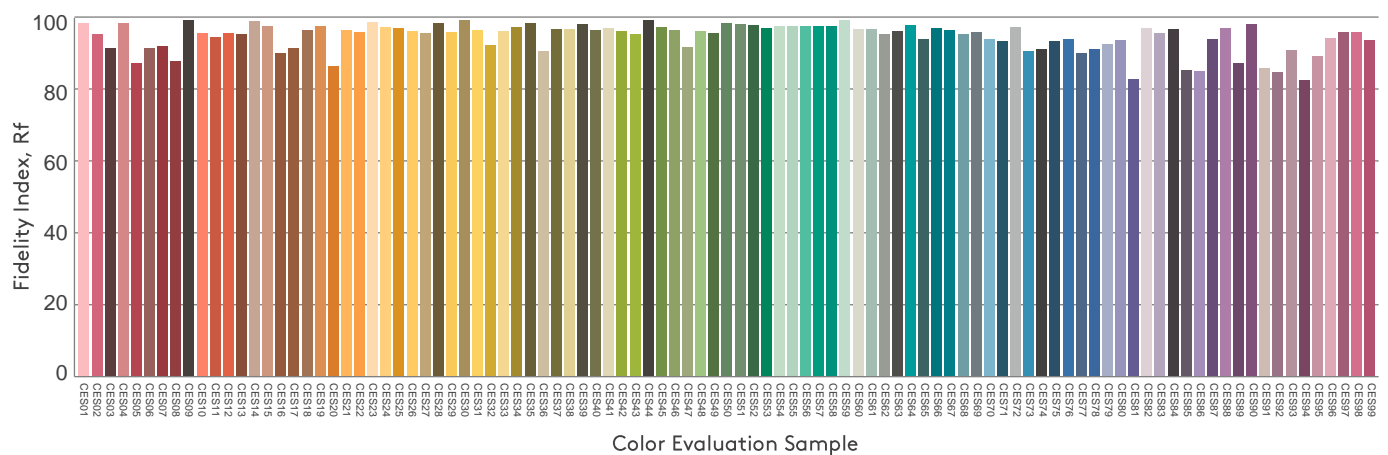
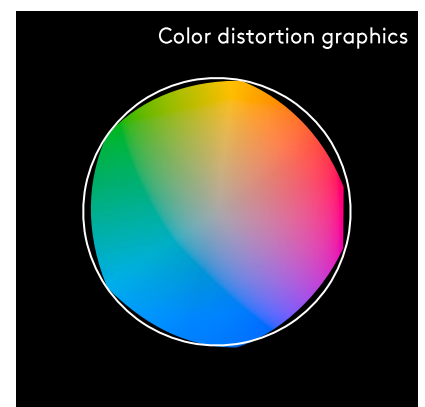
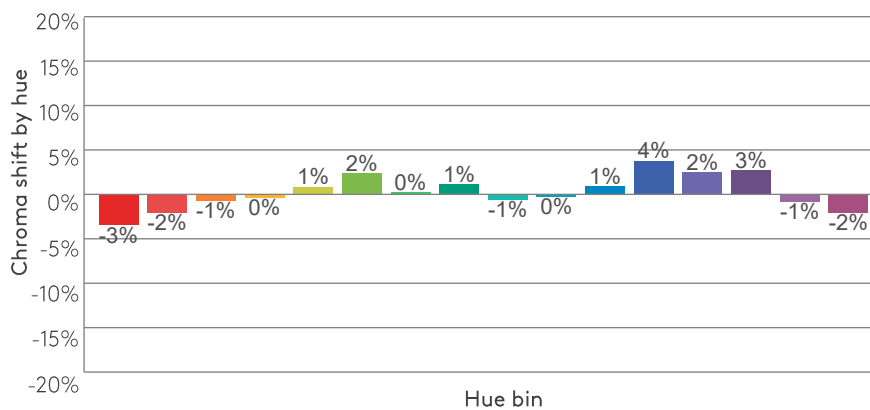
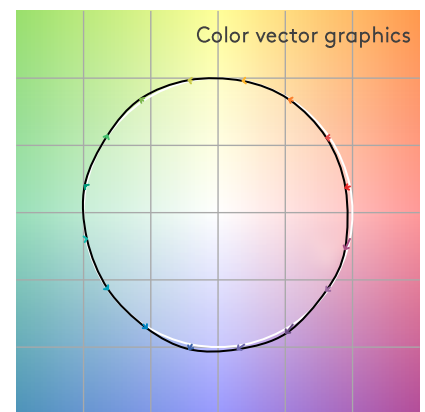
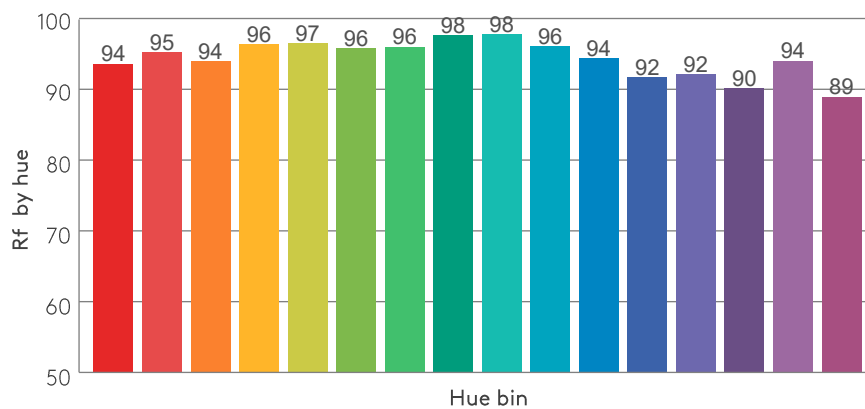
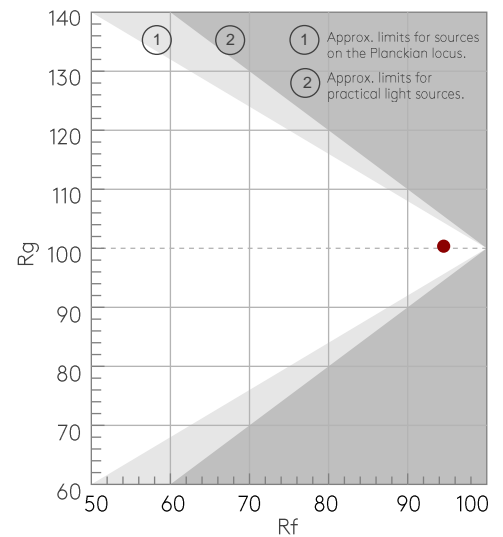
COLOR PARAMETERS

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
2734 K	95.8	69.7	94.5	100.4	93.2	0.458	0.411	0.261	0.351	0.0002

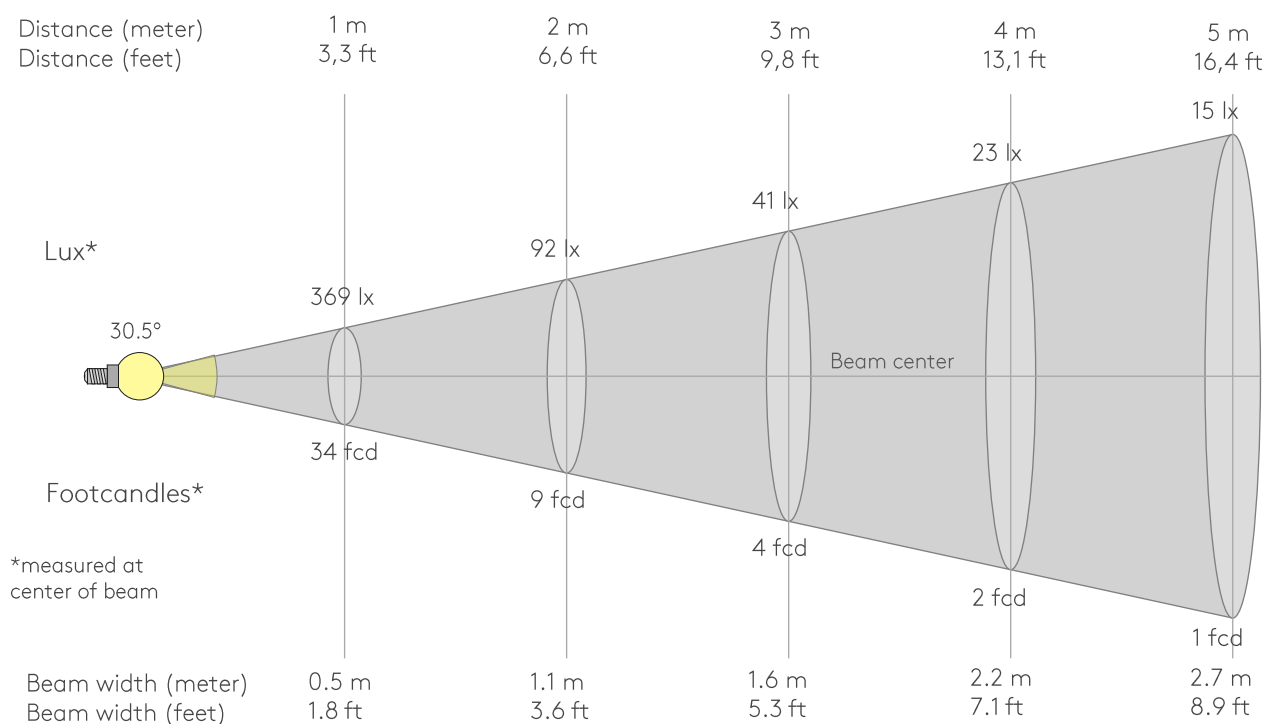
Rf 94.5
Fidelity index Rf

Rg 100.4
Gammut index Rg

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



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
369lx	92lx	41lx	23lx	15lx	10lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
34.2fcd	8.6fcd	3.8fcd	2.1fcd	1.4fcd	1fcd	0.7fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

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°
369	361	344	320	292	261	229	199	169	141	116	93	72	55	41	29	20	15	11	9
100%	98%	93%	87%	79%	71%	62%	54%	46%	38%	31%	25%	20%	15%	11%	8%	6%	4%	3%	2%

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°
369	365	356	339	315	286	251	215	179	145	115	90	69	52	39	29	21	16	12	10
100%	99%	96%	92%	86%	77%	68%	58%	48%	39%	31%	24%	19%	14%	10%	8%	6%	4%	3%	3%

Intensities in 180° c-plane

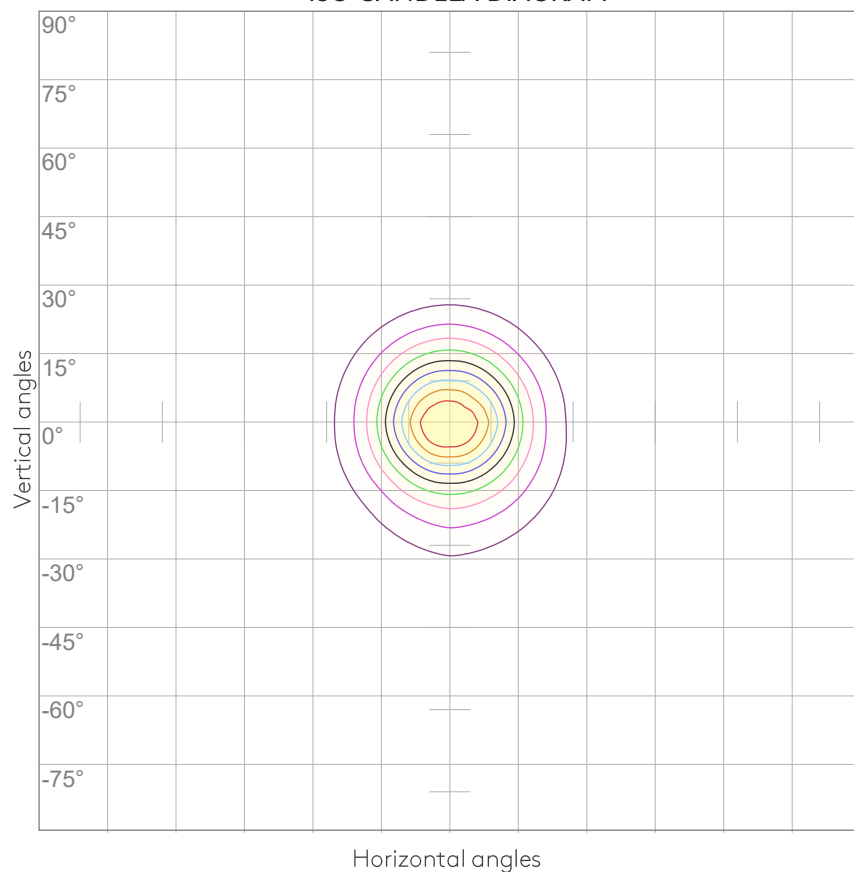
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
369	365	353	332	302	268	233	199	169	143	122	103	86	72	60	49	39	32	25	20
100%	99%	96%	90%	82%	73%	63%	54%	46%	39%	33%	28%	23%	20%	16%	13%	11%	9%	7%	6%

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°
369	366	358	342	319	288	253	215	179	145	114	88	68	51	37	28	20	15	11	9
100%	99%	97%	93%	86%	78%	69%	58%	48%	39%	31%	24%	18%	14%	10%	7%	5%	4%	3%	2%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
30.5°	58.5°	78.9°	98.8%	96.2%

ISO CANDELA DIAGRAM



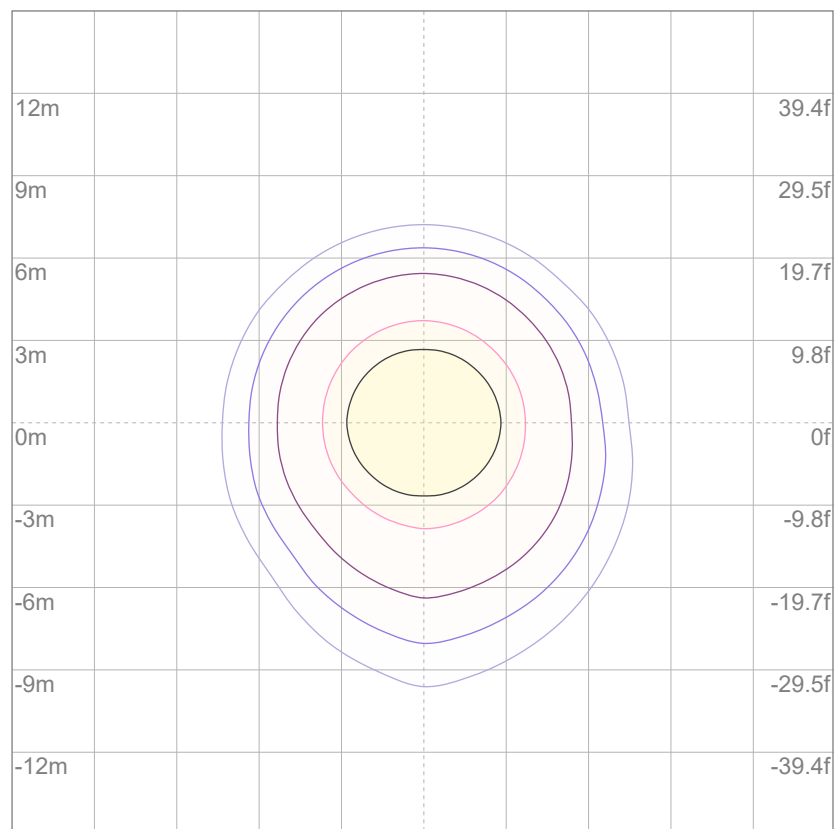
10%	37 cd
20%	74 cd
30%	111 cd
40%	147 cd
50%	184 cd
60%	221 cd
70%	258 cd
80%	295 cd
90%	332 cd

Conditions:

Number of c-planes: 8

Candela at center: 369 cd

ISO LUX DIAGRAM



Mounting height: 10 meters (33 feet)

3%	0.111 lx
5%	0.184 lx
10%	0.369 lx
30%	1.11 lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 3.69 lx

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

GLARE EVALUATION ACCORDING TO UGR

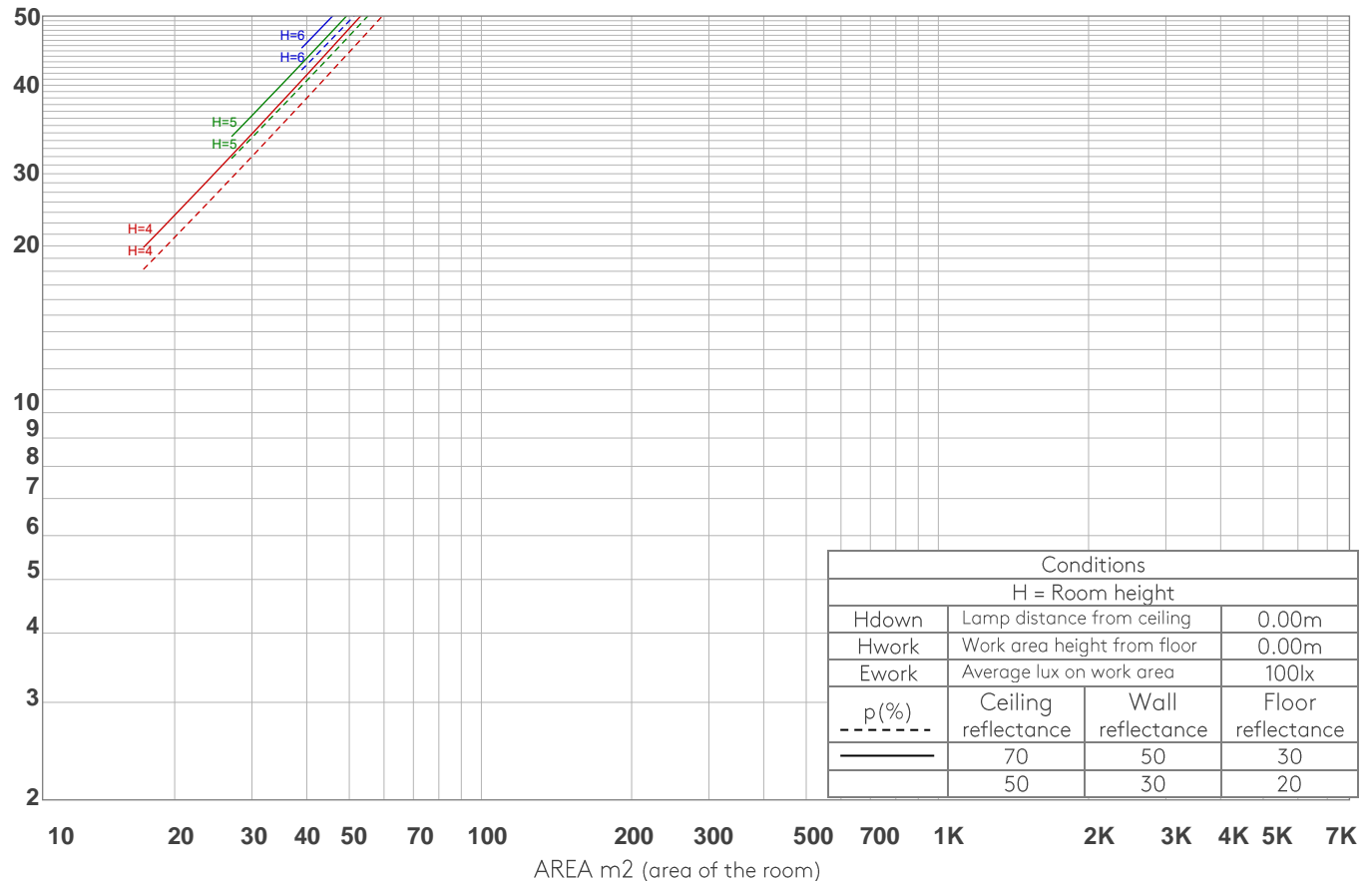
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	105	104	103	102	101	99	98	97	96	95
2	110	105	102	99	107	104	100	98	100	98	96	97	95	93	95	93	92	90
3	105	100	95	92	103	98	94	91	96	92	90	93	91	88	91	89	87	86
4	101	95	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81
5	97	90	85	82	96	89	85	81	87	83	80	86	82	80	84	81	79	78
6	93	86	81	77	92	85	81	77	84	80	77	82	79	76	81	78	76	74
7	90	82	77	74	89	82	77	74	80	76	73	79	76	73	78	75	72	71
8	87	79	74	71	86	78	74	70	77	73	70	76	73	70	75	72	69	68
9	84	76	71	68	83	75	71	68	74	70	67	74	70	67	73	69	67	66
10	81	73	68	65	80	73	68	65	72	68	65	71	67	65	70	67	64	63

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM



ZONAL LUMEN SUMMARY

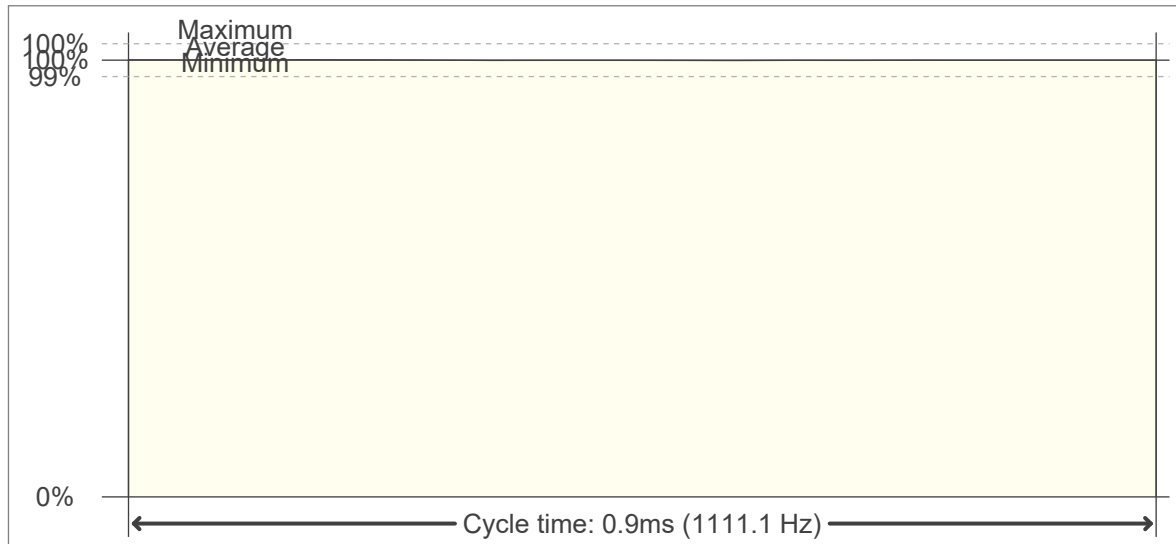
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
30.5 lm	51.7 lm	30.2 lm	11.0 lm	4.14 lm	1.75 lm	0.756 lm	0.304 lm	0.047 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.041 lm	0.045 lm	0.046 lm	0.060 lm	0.074 lm	0.094 lm	0.093 lm	0.057 lm	0.018 lm

FLICKER

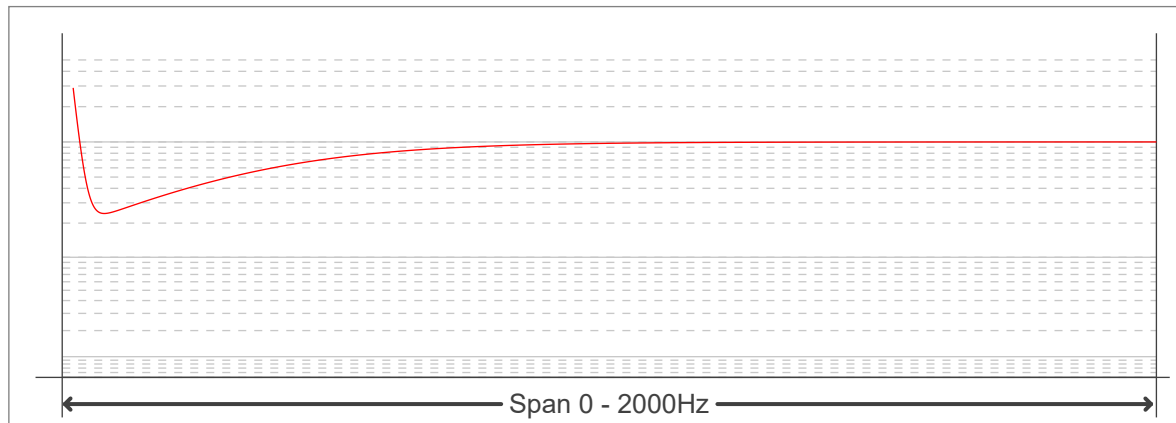
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	1111.11 Hz
Flicker index:	0
Flicker percentage:	0.21 %
SVM: (Visual flicker)	0

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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