

# PHOTOMETRIC TEST REPORT

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ARTEMIS 1200 LED II

astro

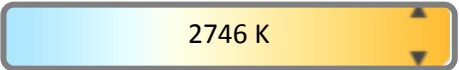
LIGHT EFFICIENCY:



LIGHT QUALITY:



COLOR TEMPERATURE:



OUTPUT: 1275 lm  
PEAK: 246 cd  
POWER: 23.1 W  
PF: 0.46



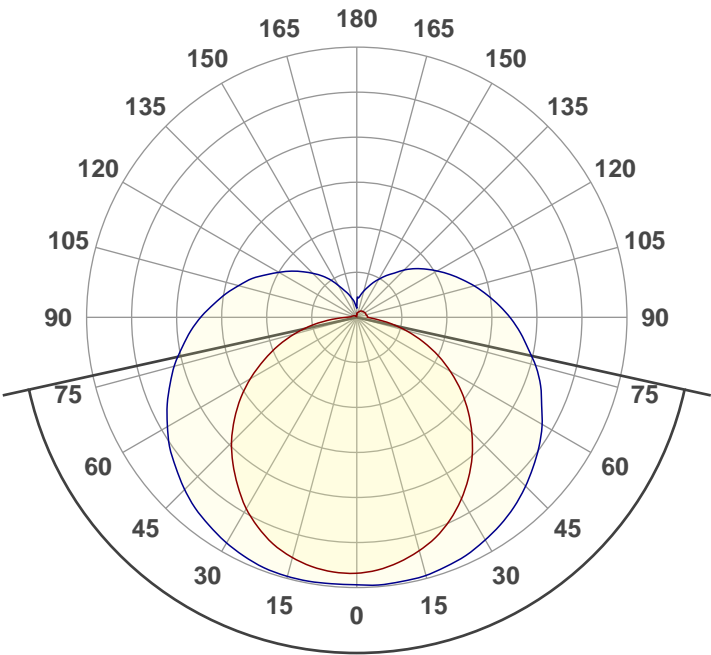
Tracking number: [n/a](#)

Product name:  
Artemis 1200 LED II

Item number:  
1308014

Date and time:  
11/07/2019 11:41:38

Description:  
IP44 Vert/ Horiz LED Wall Light

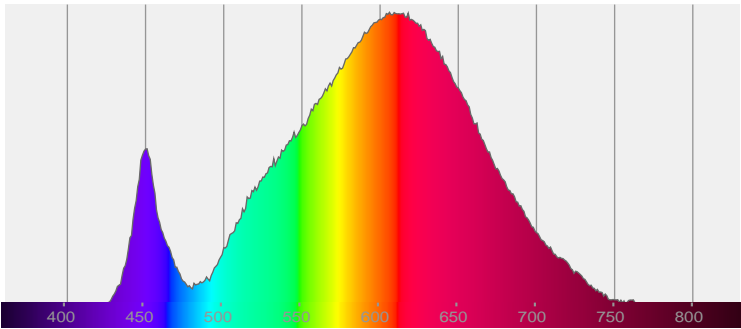


155.1°

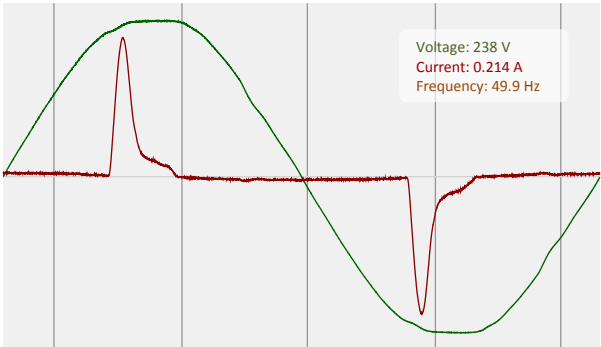


CIE 1931  
x: 0.454  
y: 0.406

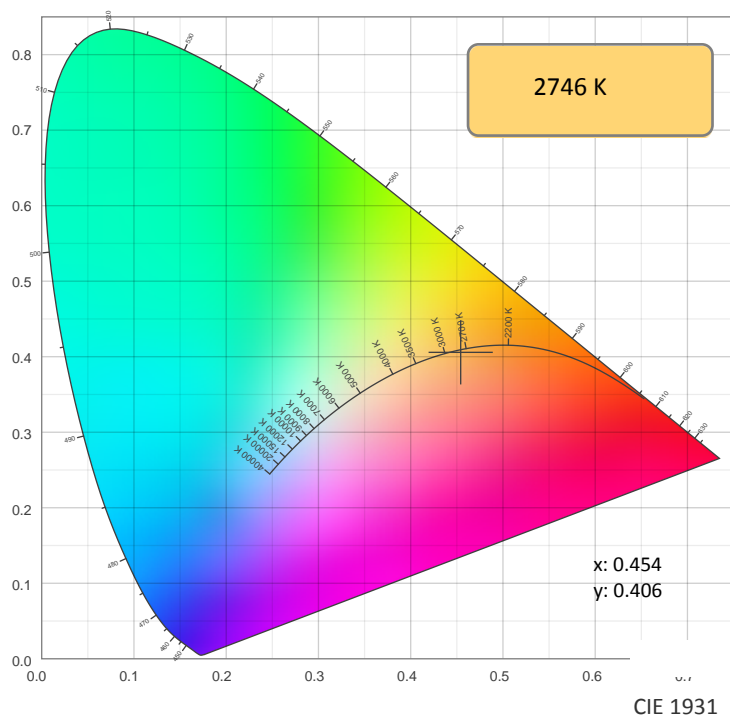
SPECTRA



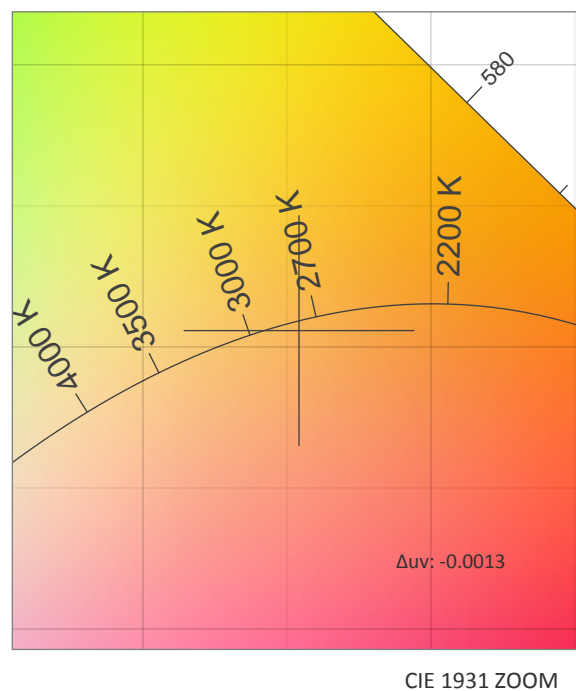
POWER



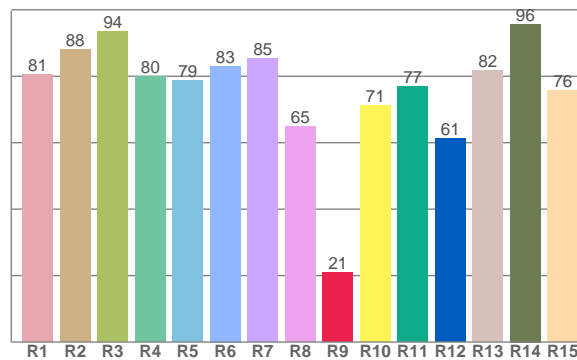
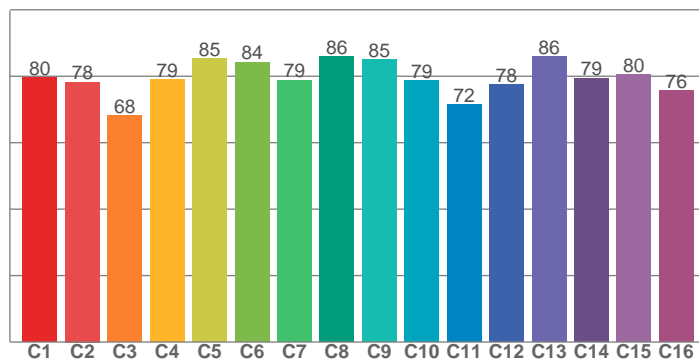
## COLOR DETAILS



TM30: 79.3



CRI: 81.8 (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
80.6	88.1	93.5	79.8	78.7	83.1	85.4	64.9	21.0	71.3	76.9	61.2	81.9	95.7	75.7

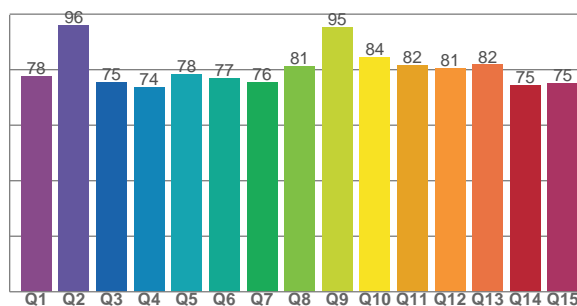
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.5	78.3	68.2	79.0	85.2	84.3	78.8	85.9	85.0	78.7	71.6	77.6	85.9	79.5	80.4	75.7

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
77.8	96.0	75.5	73.8	78.5	77.0	75.6	81.4	95.3	84.5	81.6	80.7	81.8	74.5	75.2

CQS: 79.4



## 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	$\Delta uv$
2746 K	81.8	21.0	79.3	99.7	79.4	0.454	0.406	0.261	0.350	-0.0013

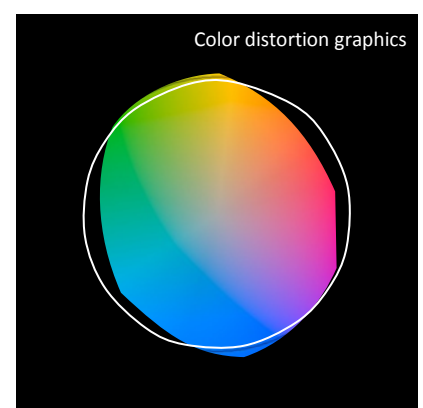
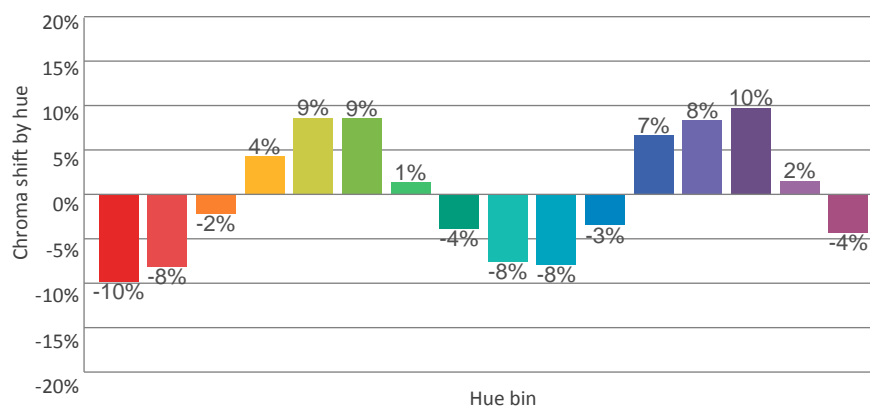
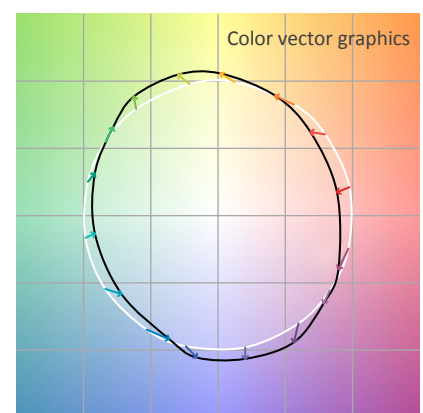
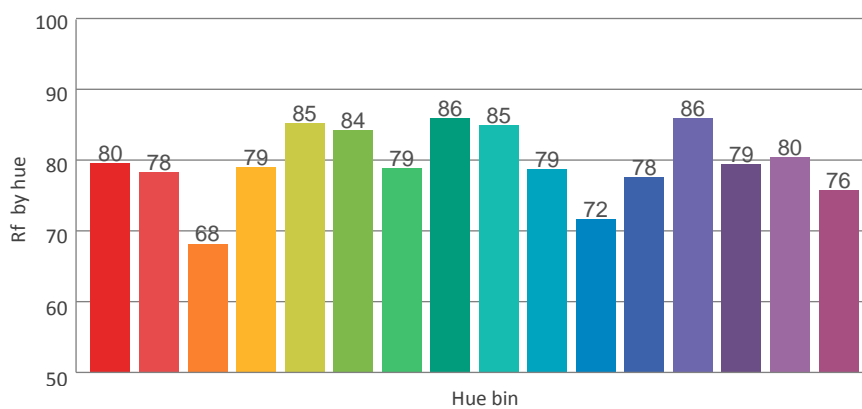
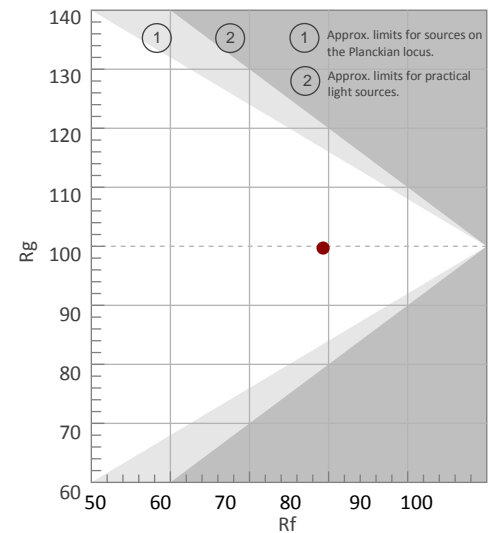
Rf 79.3

Fidelity index Rf

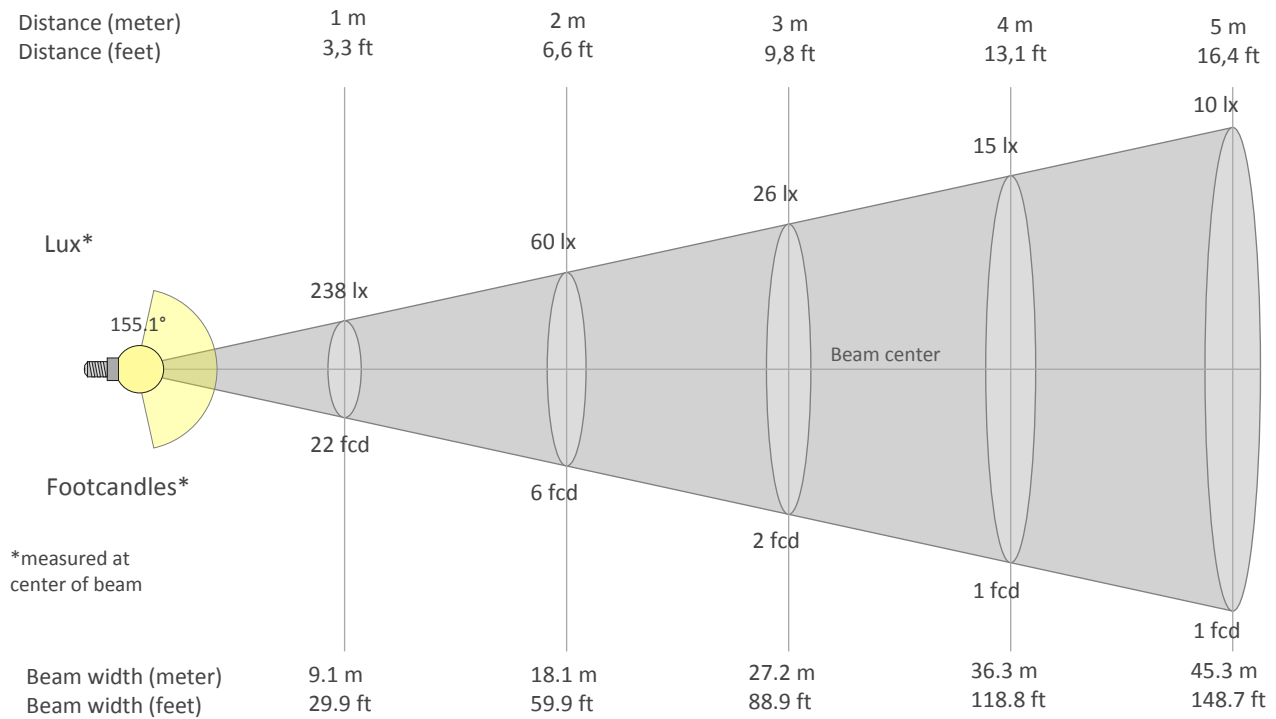
Rg 99.7

Gammut index Rg

Hue Bin	Graphic shifts (%)		
	Rf	Chroma	Hue
1	80	-10%	-2%
2	78	-8%	8%
3	68	-2%	15%
4	79	4%	12%
5	85	9%	7%
6	84	9%	-4%
7	79	1%	-12%
8	86	-4%	-7%
9	85	-8%	-2%
10	79	-8%	10%
11	72	-3%	18%
12	78	7%	10%
13	86	8%	-2%
14	79	10%	-11%
15	80	2%	-11%
16	76	-4%	-16%



## 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
238lx	60lx	26lx	15lx	10lx	7lx	5lx	4lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx
22.2fcd	5.5fcd	2.5fcd	1.4fcd	0.9fcd	0.6fcd	0.5fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd

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°
238	228	217	199	176	149	120	89	57	28	10	10	9	9	8	8	7	6	5	4
100%	96%	91%	83%	74%	63%	50%	37%	24%	12%	4%	4%	4%	4%	3%	3%	3%	3%	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°
238	246	243	238	230	219	206	191	175	157	140	123	106	90	76	61	48	37	28	20
100%	103%	102%	100%	96%	92%	86%	80%	74%	66%	59%	51%	44%	38%	32%	26%	20%	16%	12%	9%

Intensities in 180° c-plane

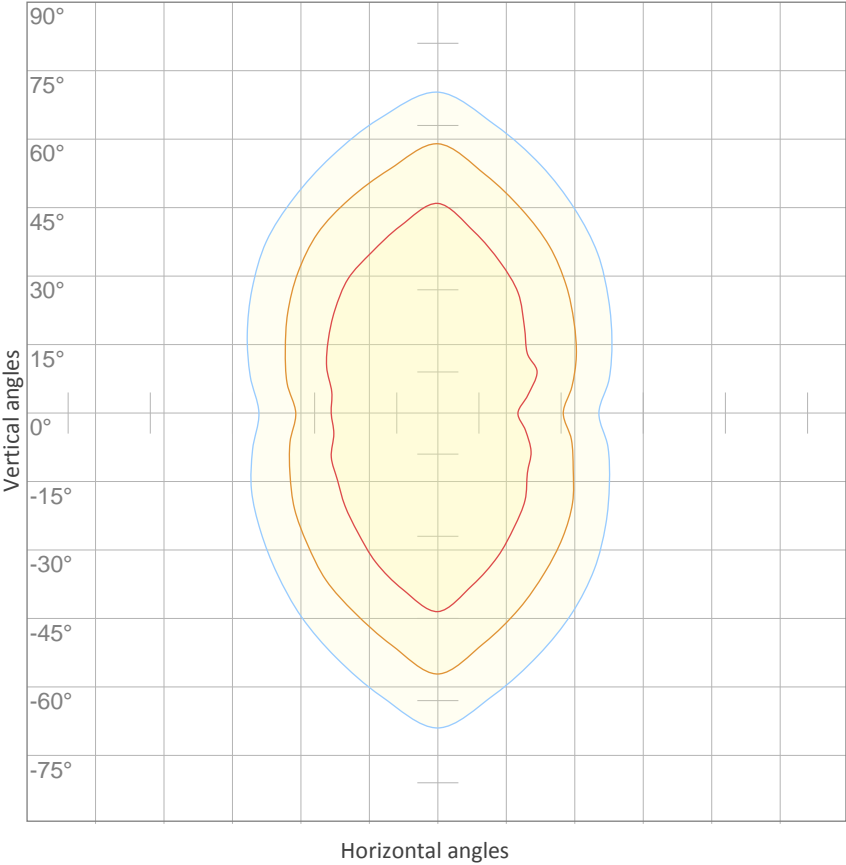
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
238	233	224	209	187	162	133	102	70	38	10	5	4	3	2	2	1	1	1	2
100%	98%	94%	88%	78%	68%	56%	43%	29%	16%	4%	2%	2%	1%	1%	1%	1%	1%	1%	1%

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°
238	246	245	241	233	223	210	195	179	161	143	124	107	88	72	57	43	30	21	14
100%	103%	103%	101%	98%	94%	88%	82%	75%	68%	60%	52%	45%	37%	30%	24%	18%	13%	9%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
155.1°	262.4°	324.7°	48.5%	31.0%

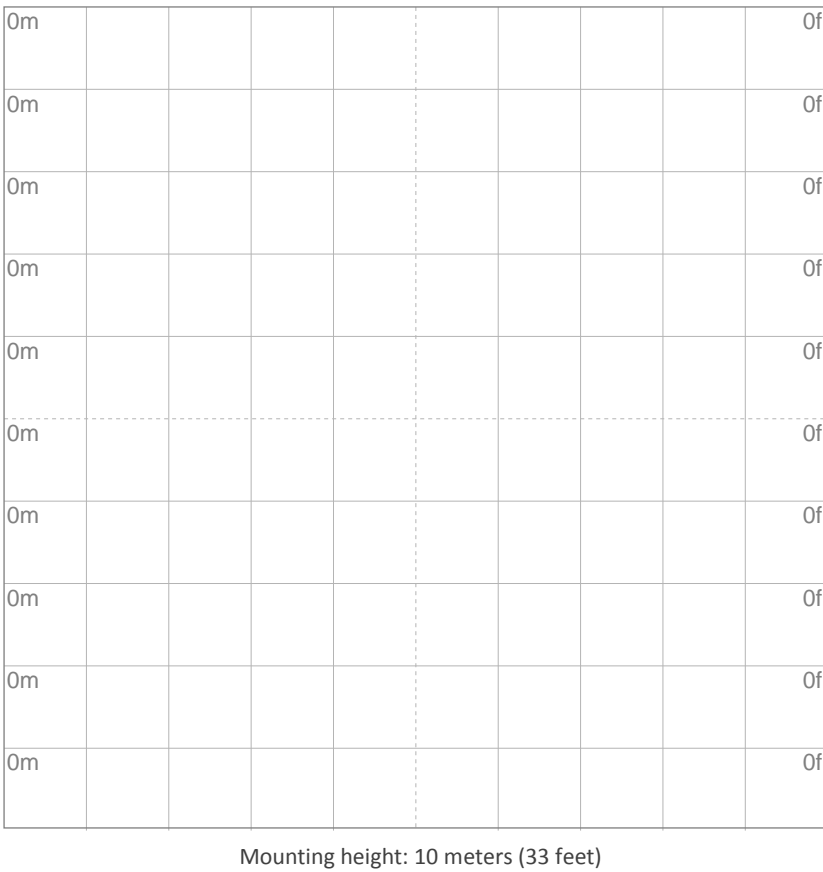
ISO CANDELA DIAGRAM



10%	24 cd
20%	48 cd
30%	72 cd
40%	95 cd
50%	119 cd
60%	143 cd
70%	167 cd
80%	191 cd
90%	215 cd

Conditions:  
Number of c-planes: 8  
Candela at center: 238 cd

ISO LUX DIAGRAM



3%	71.5m lx
5%	0.119 lx
10%	0.238 lx
30%	0.715 lx
50%	{LUX_10M50} lx

Conditions:  
Number of c-planes: 8  
Lux at center: 2.38 lx

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

## UGR

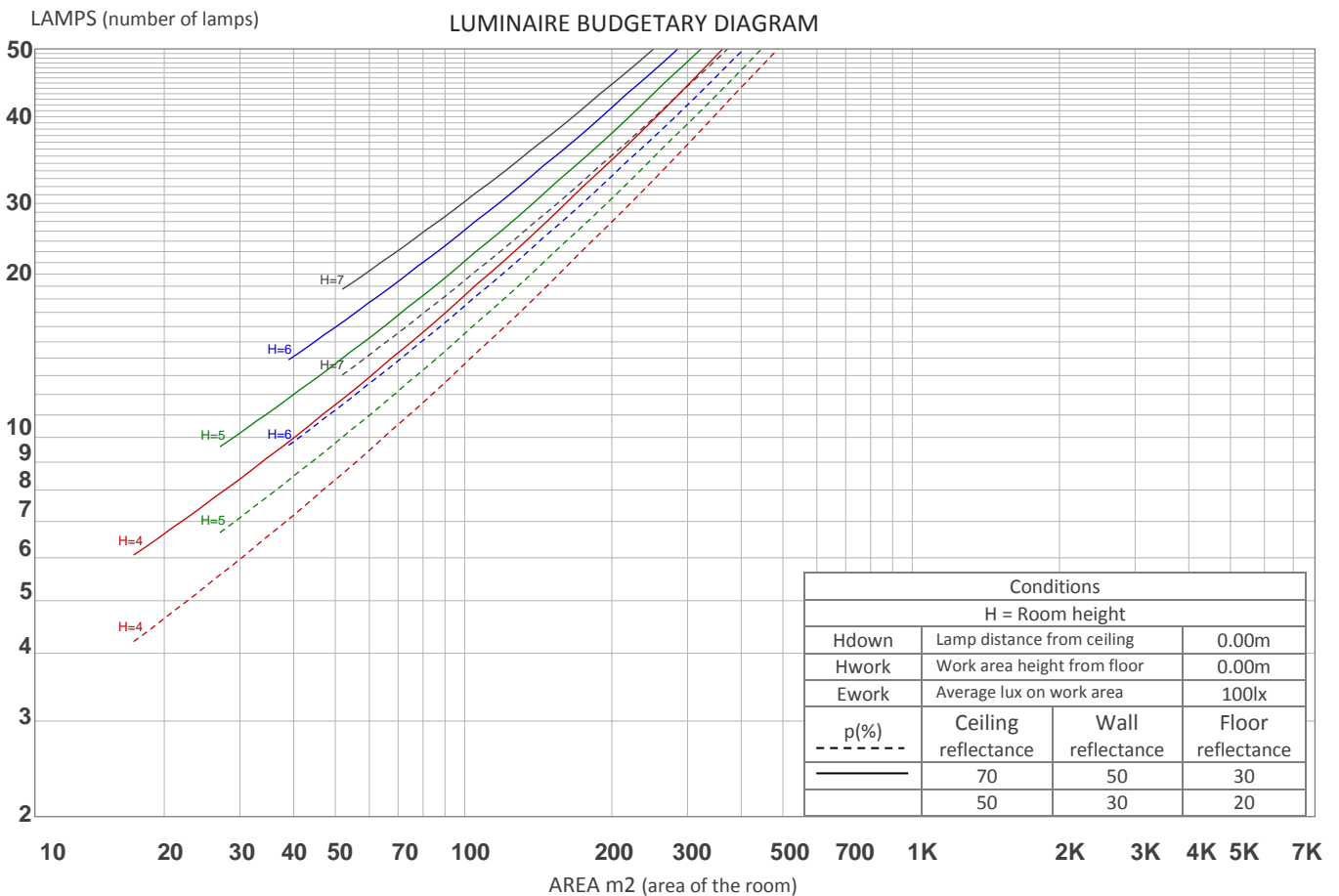
## GLARE EVALUATION ACCORDING TO UGR

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X    Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	16.7	17.8	17.2	18.4	19.1	19.1	20.3	19.7	20.9	21.5
	3H	18.3	19.4	19.0	20.1	20.8	22.0	23.1	22.6	23.7	24.4
	4H	19.1	20.1	19.7	20.8	21.5	23.6	24.6	24.2	25.3	26.0
	6H	19.7	20.6	20.4	21.3	22.1	25.4	26.4	26.1	27.0	27.8
	8H	19.9	20.9	20.6	21.5	22.3	26.4	27.3	27.1	28.0	28.8
	12H	20.1	21.0	20.8	21.7	22.5	27.6	28.5	28.3	29.1	29.9
4H	2H	18.0	19.0	18.6	19.7	20.4	19.7	20.7	20.3	21.4	22.1
	3H	20.0	20.9	20.7	21.6	22.4	22.8	23.7	23.5	24.4	25.2
	4H	21.0	21.8	21.7	22.5	23.3	24.6	25.4	25.3	26.1	27.0
	6H	21.8	22.5	22.5	23.2	24.1	26.6	27.3	27.4	28.1	28.9
	8H	22.2	22.8	22.9	23.5	24.4	27.8	28.4	28.5	29.2	30.0
	12H	22.4	23.0	23.2	23.8	24.7	29.1	29.7	29.8	30.4	31.3
8H	4H	22.2	22.8	22.9	23.6	24.4	25.0	25.7	25.8	26.4	27.3
	6H	23.4	24.0	24.2	24.7	25.6	27.3	27.9	28.1	28.6	29.5
	8H	24.0	24.5	24.8	25.3	26.2	28.6	29.1	29.4	29.9	30.8
	12H	24.5	25.0	25.3	25.8	26.7	30.2	30.6	31.0	31.4	32.4
12H	4H	22.6	23.2	23.3	23.9	24.8	25.1	25.7	25.8	26.4	27.3
	6H	24.1	24.5	24.8	25.3	26.2	27.5	27.9	28.2	28.7	29.7
	8H	24.8	25.3	25.6	26.1	27.0	28.9	29.3	29.7	30.1	31.1
Variation of the observer position for the luminaire distance S											
S = 1.0H	+0.1   /   -0.1					+0.2   /   -0.2					
S = 1.5H	+0.2   /   -0.2					+0.3   /   -0.3					
S = 2.0H	+0.4   /   -0.5					+0.4   /   -0.5					
Standard table	---					---					
Correction summand	---					---					
Corrected glare indices referring to 1275 lm total luminous flux											

UGR data could be incorrect as lamp output is not symmetrical. 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	108	108	108	108	99	99	99	90	90	90	81	81	81	77
1	100	94	89	84	95	90	85	80	81	77	73	73	70	67	66	64	61	58
2	90	80	72	65	85	76	69	63	69	63	58	62	58	53	56	52	49	45
3	81	69	60	53	77	66	58	51	60	53	47	54	48	44	49	44	40	37
4	74	61	51	44	70	58	49	42	52	45	39	47	41	36	43	38	34	31
5	68	54	44	37	64	51	43	36	47	39	34	42	36	31	38	33	29	26
6	62	48	39	32	59	46	37	31	42	34	29	38	32	27	34	29	25	22
7	57	43	34	28	54	41	33	27	38	31	25	34	28	24	31	26	22	19
8	53	39	31	25	50	38	29	24	34	27	22	31	25	21	29	23	19	17
9	50	36	28	22	47	34	27	21	32	25	20	29	23	19	26	21	17	15
10	46	33	25	20	44	32	24	19	29	22	18	27	21	17	24	19	16	14



## ZONAL LUMEN SUMMARY

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
22.7 lm	66.2 lm	103 lm	131 lm	146 lm	149 lm	141 lm	125 lm	103 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
83.8 lm	67.3 lm	51.4 lm	36.6 lm	23.4 lm	13.7 lm	7.16 lm	3.08 lm	0.707 lm

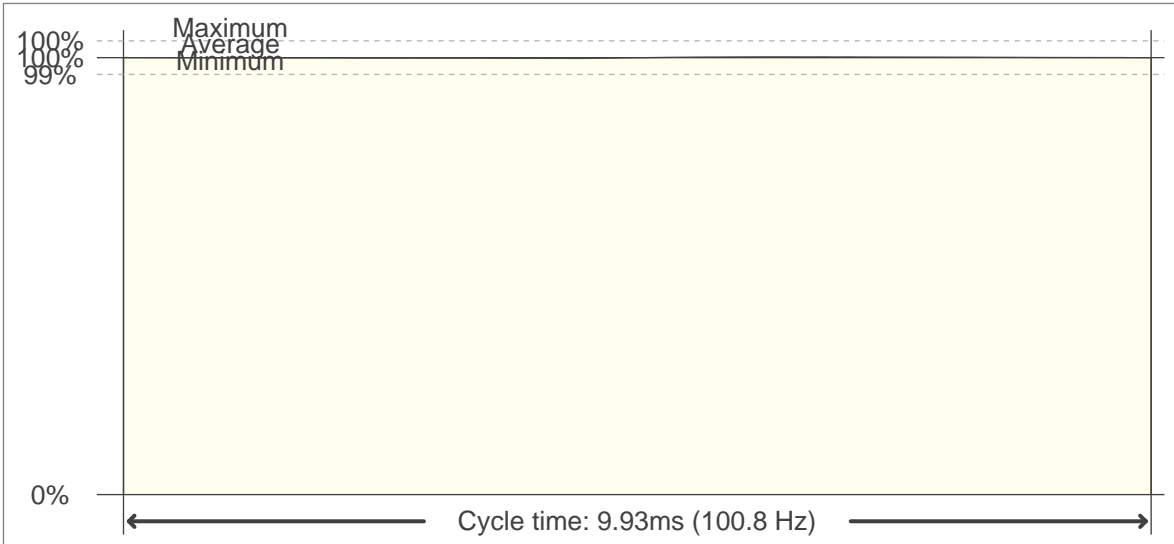


FLICKER

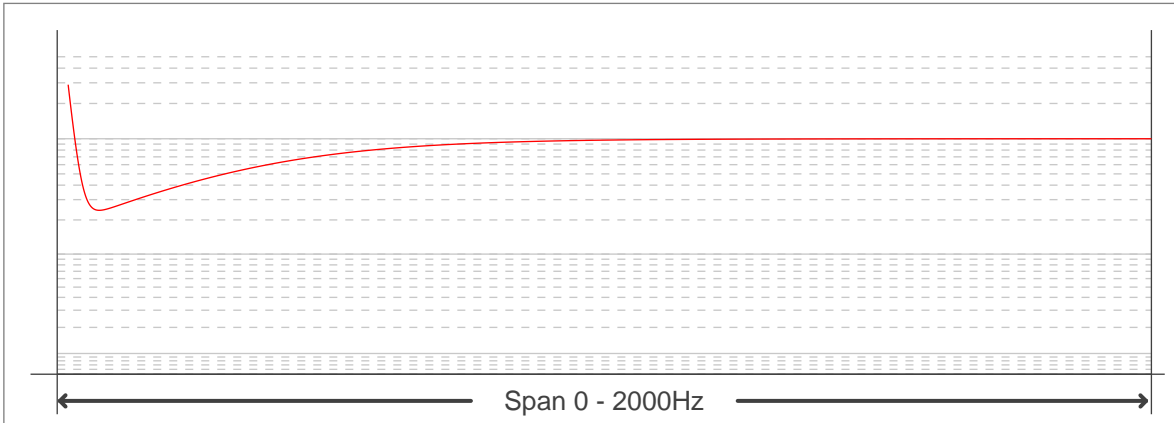
FLICKER CURVE (COMPLETE SAMPLED FLICKER)



FLICKER FRAME (FRAME OF ONE FLICKER PERIOD)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER CURVE)



FLICKER RESULTS:

Flicker frequency:	100.76 Hz
Flicker index:	0
Flicker percentage:	0.19 %
SVM: (Visual flicker)	0.01

FLICKER CONDITIONS:

Sample rate:	40000 samples/second
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