

PHOTOMETRIC TEST REPORT

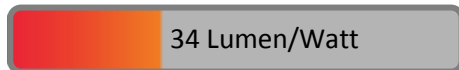
FOLD TABLE LED MATT NICKEL

astro

FOLD TABLE LED MATT NICKEL

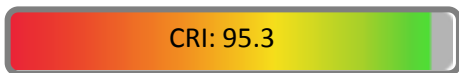
astro

LIGHT EFFICIENCY:



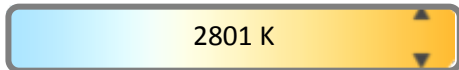
OUTPUT: 176 lm

LIGHT QUALITY:



PEAK: 119 cd

COLOR TEMPERATURE:



POWER: 5.1 W

PF: 0.47



Tracking number: [n/a](#)

Product name:

Fold Table LED Matt Nickel

Item number:

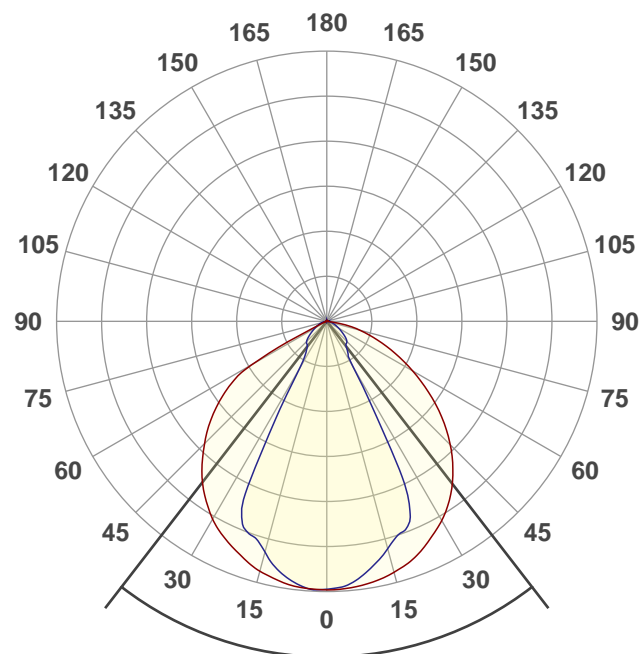
1408006

Date and time:

08/10/2019 12:33:48

Description:

LED Table Light

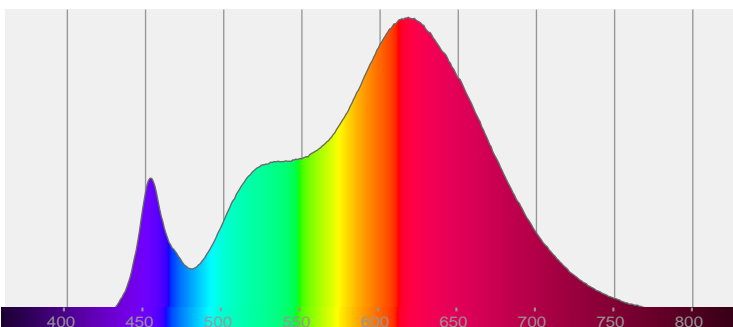


75.4°

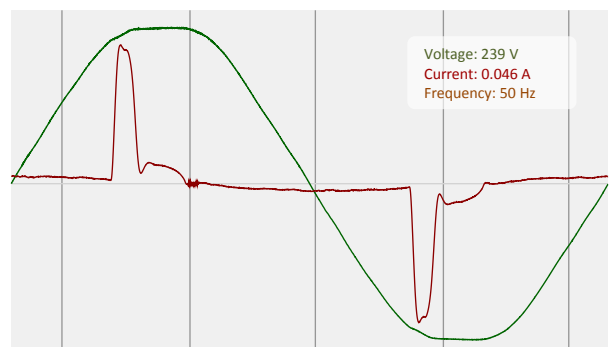


CIE 1931
x: 0.450
y: 0.406

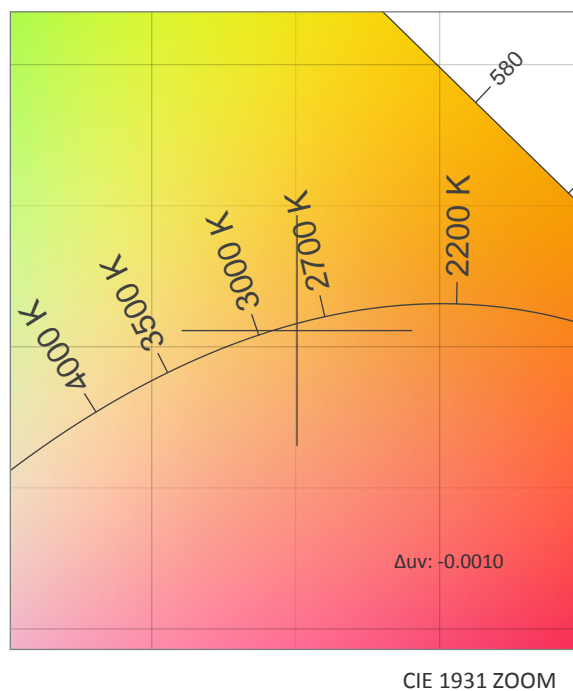
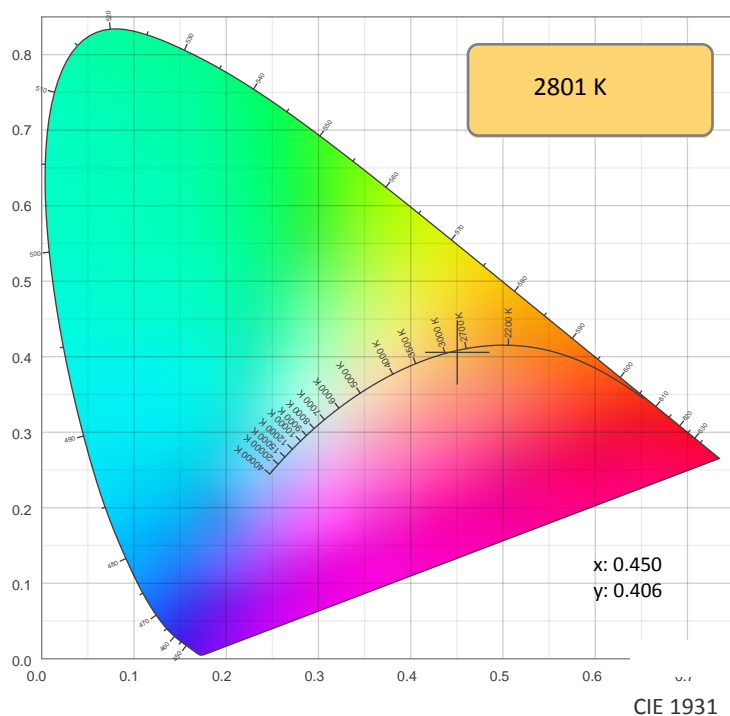
SPECTRA



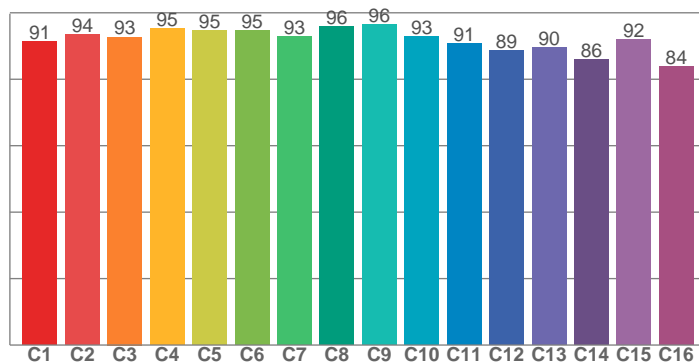
POWER



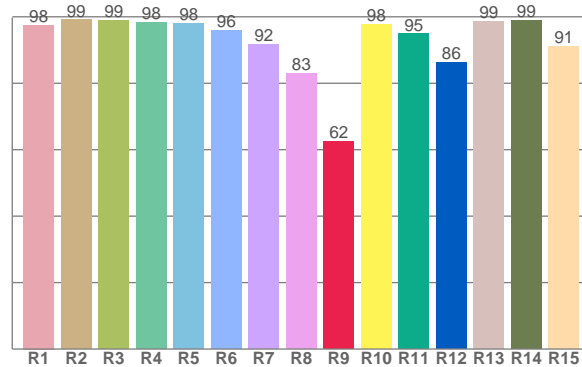
COLOR DETAILS



TM30: 92.2



CRI: 95.3 (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
97.5	99.0	98.9	98.2	98.1	95.8	91.7	83.0	62.4	97.6	94.8	86.2	98.7	99.0	91.1

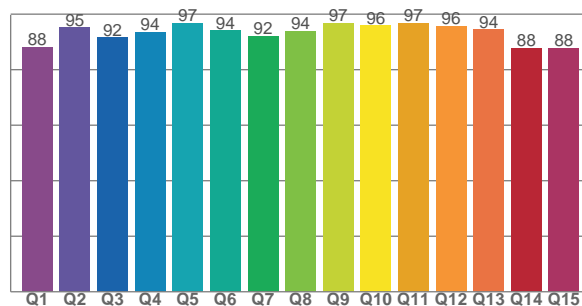
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
91.3	93.5	92.7	95.2	94.7	94.6	93.0	95.8	96.4	92.9	90.7	88.6	89.6	86.0	91.9	83.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88.2	95.2	91.6	93.6	96.8	94.1	92.2	93.8	96.8	95.9	96.9	95.8	94.4	87.8	87.8

CQS: 92.4



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	Δuv
2801 K	95.3	62.4	92.2	100.4	92.4	0.450	0.406	0.259	0.349	-0.0010

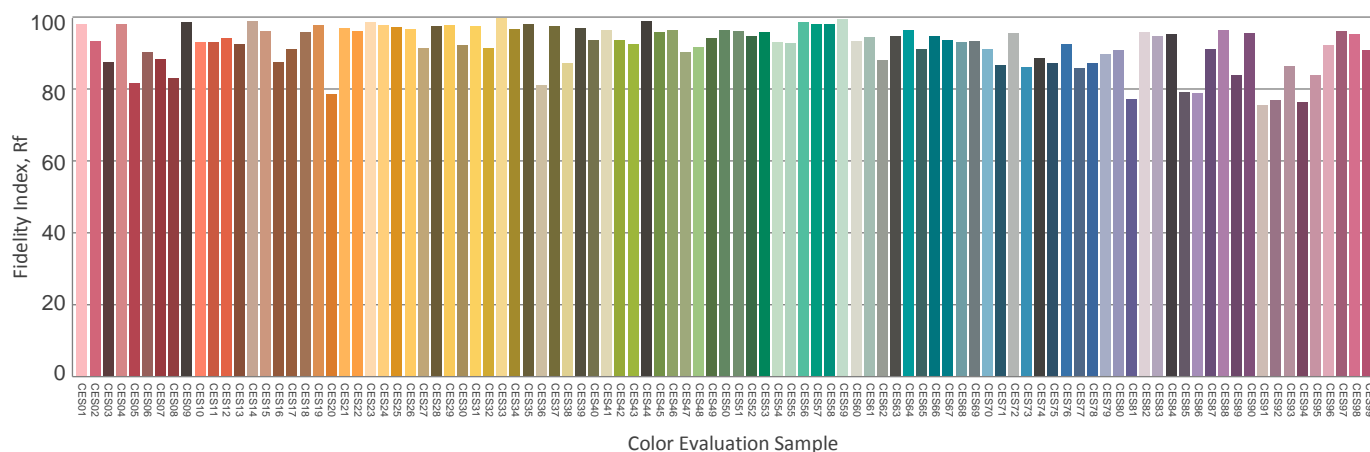
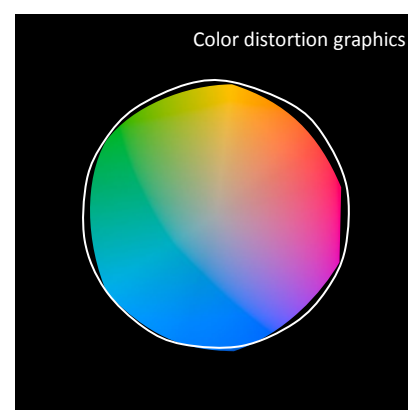
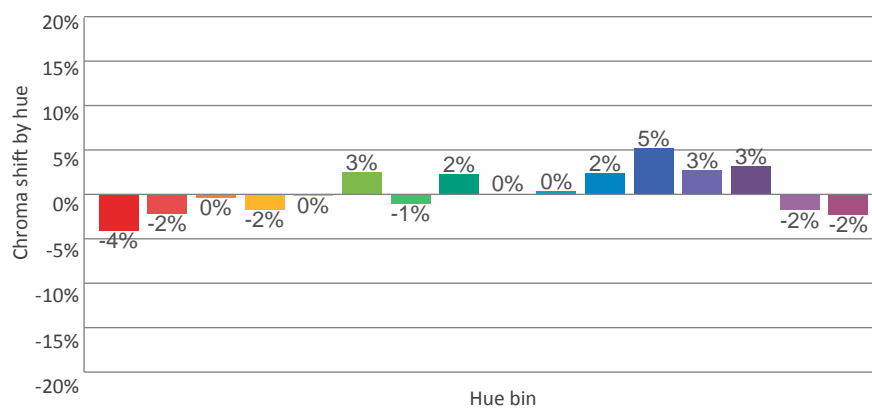
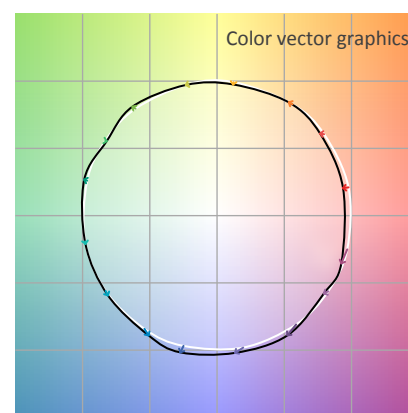
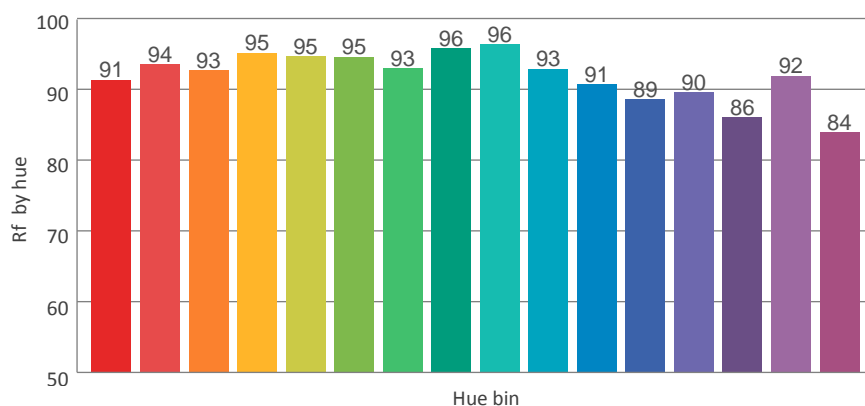
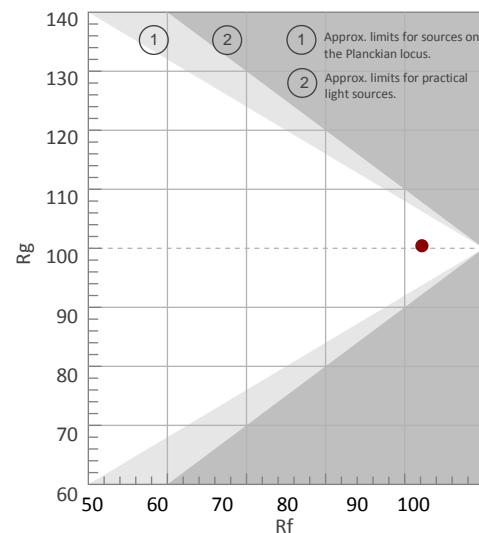
Rf 92.2

Fidelity index Rf

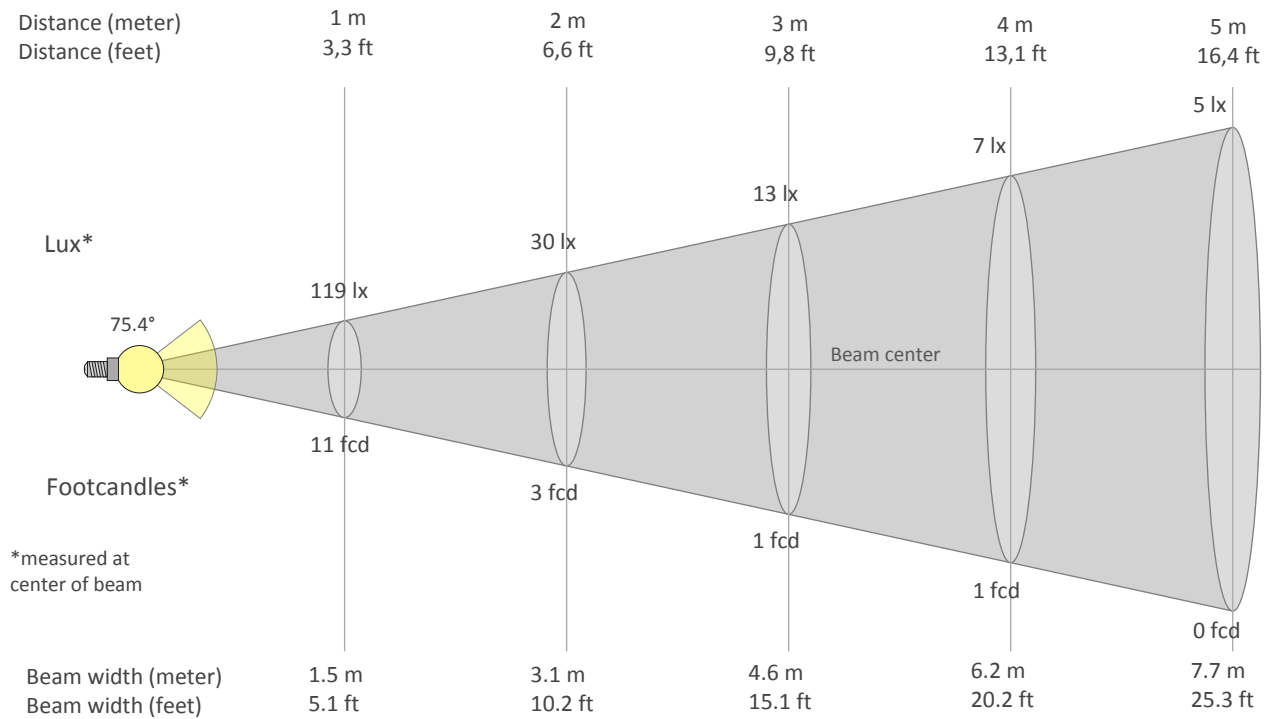
Rg 100.4

Gammut index Rg

Hue Bin	Graphic shifts (%)		
	R _f	Chroma	Hue
1	91	-4%	0%
2	94	-2%	2%
3	93	0%	3%
4	95	-2%	0%
5	95	0%	2%
6	95	3%	1%
7	93	-1%	0%
8	96	2%	0%
9	96	0%	2%
10	93	0%	4%
11	91	2%	5%
12	89	5%	-1%
13	90	3%	-7%
14	86	3%	-10%
15	92	-2%	-3%
16	84	-2%	-11%



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
119lx	30lx	13lx	7lx	5lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx
11fcd	2.8fcd	1.2fcd	0.7fcd	0.4fcd	0.3fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd

Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
119	119	117	115	112	107	102	95	87	77	67	55	44	33	23	15	7	0	0	0
100%	100%	99%	97%	94%	90%	86%	80%	73%	65%	56%	47%	37%	28%	20%	13%	6%	0%	0%	0%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
119	117	111	104	99	82	26	16	13	13	11	8	6	5	3	2	1	0	0	0
100%	98%	94%	88%	83%	69%	22%	13%	11%	11%	9%	7%	5%	4%	3%	2%	1%	0%	0%	0%

Intensities in 180° c-plane

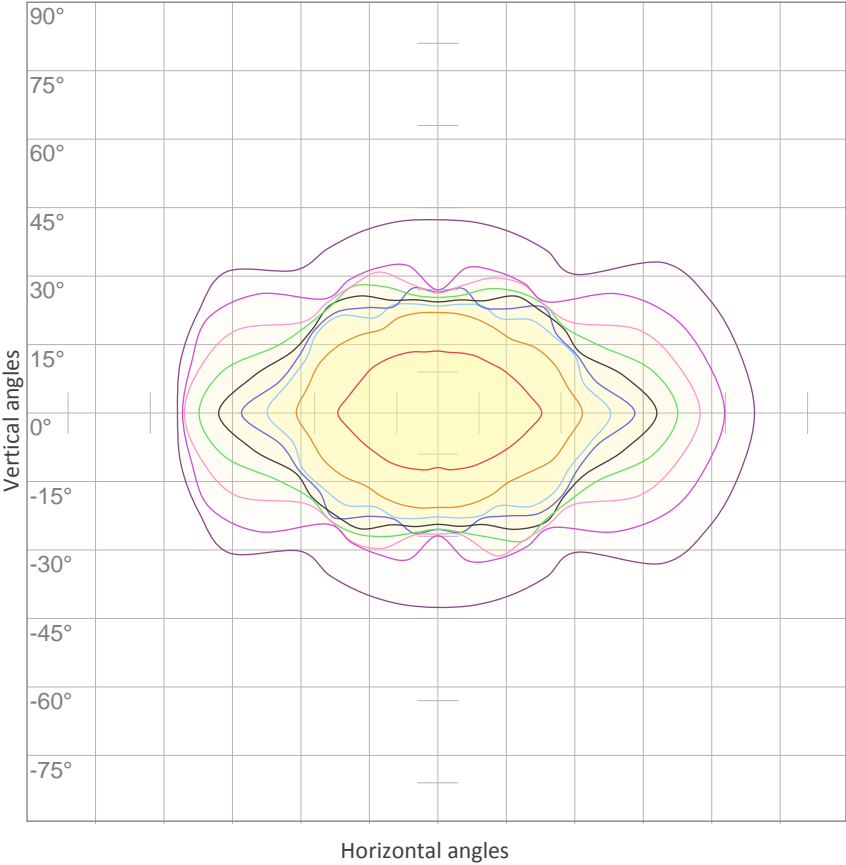
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
119	119	117	115	111	106	101	94	86	77	67	55	38	4	1	0	0	0	0	0
100%	100%	99%	96%	93%	90%	85%	79%	72%	64%	56%	47%	32%	4%	0%	0%	0%	0%	0%	0%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
119	118	114	106	100	86	25	16	13	13	10	8	6	5	3	2	1	0	0	0
100%	99%	96%	89%	84%	72%	21%	13%	11%	11%	9%	7%	5%	4%	3%	2%	1%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
75.4°	107°	144.5°	91.7%	74.9%

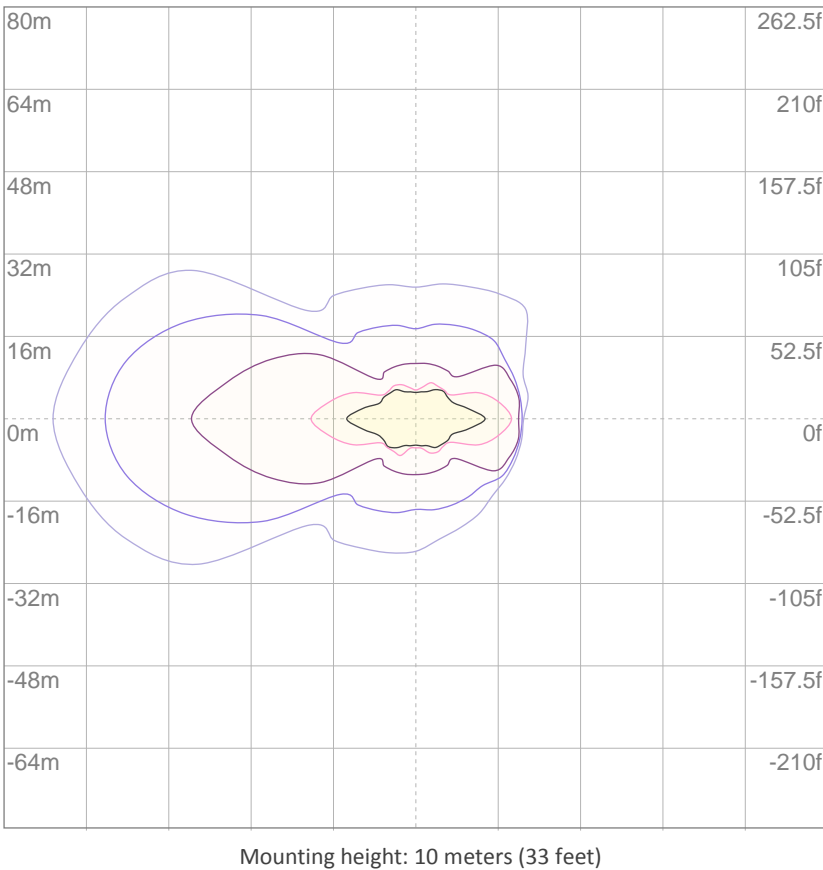
ISO CANDELA DIAGRAM



10%	12 cd
20%	24 cd
30%	36 cd
40%	48 cd
50%	59 cd
60%	71 cd
70%	83 cd
80%	95 cd
90%	107 cd

Conditions:
Number of c-planes: 8
Candela at center: 119 cd

ISO LUX DIAGRAM



3%	35.6m lx
5%	59.4m lx
10%	0.119 lx
30%	0.356 lx
50%	{LUX_10M50} lx

Conditions:
Number of c-planes: 8
Lux at center: 1.19 lx

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

UGR

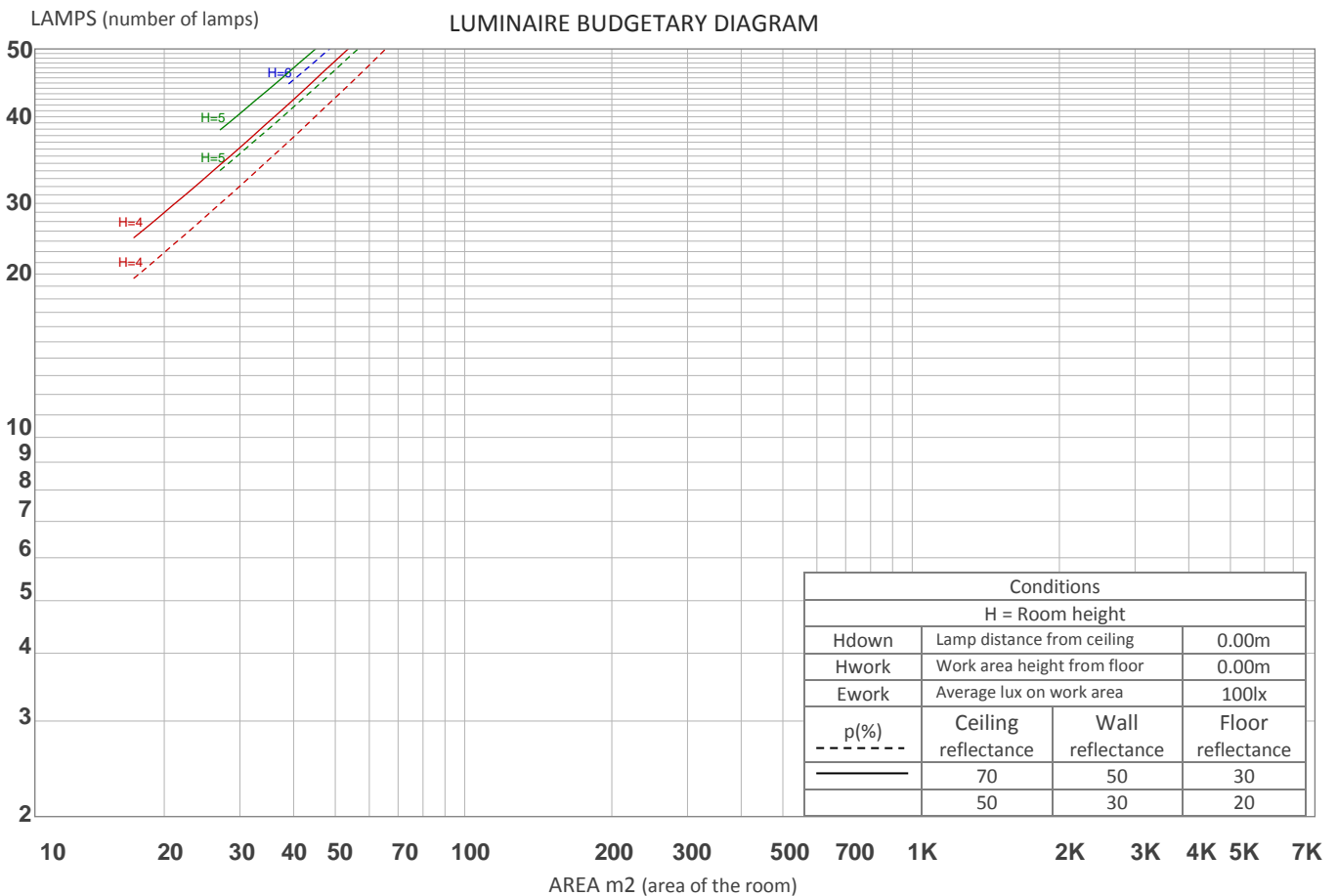
GLARE EVALUATION ACCORDING TO UGR

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	23.5	24.5	23.8	24.7	24.9	14.1	15.1	14.4	15.3	15.5
	3H	25.0	25.9	25.3	26.1	26.4	14.8	15.7	15.1	15.9	16.2
	4H	25.6	26.4	25.9	26.7	27.0	15.1	15.9	15.4	16.2	16.4
	6H	25.9	26.7	26.2	27.0	27.3	15.3	16.0	15.6	16.3	16.6
	8H	25.9	26.7	26.3	27.0	27.3	15.3	16.1	15.7	16.4	16.7
	12H	25.9	26.6	26.3	26.9	27.3	15.4	16.1	15.7	16.4	16.7
4H	2H	23.4	24.2	23.7	24.5	24.8	15.2	16.0	15.5	16.3	16.6
	3H	25.0	25.7	25.4	26.1	26.4	15.8	16.6	16.2	16.9	17.2
	4H	25.7	26.3	26.1	26.7	27.0	16.2	16.8	16.6	17.1	17.5
	6H	26.2	26.7	26.6	27.1	27.5	16.5	17.0	16.9	17.4	17.8
	8H	26.2	26.7	26.7	27.1	27.5	16.5	17.0	17.0	17.4	17.8
	12H	26.2	26.7	26.7	27.1	27.5	16.6	17.0	17.0	17.4	17.9
8H	4H	25.6	26.1	26.1	26.5	26.9	16.6	17.0	17.0	17.4	17.8
	6H	26.1	26.5	26.6	27.0	27.4	16.9	17.3	17.4	17.7	18.2
	8H	26.2	26.6	26.7	27.0	27.5	17.0	17.4	17.5	17.8	18.3
	12H	26.2	26.5	26.7	27.0	27.5	17.1	17.4	17.6	17.9	18.4
12H	4H	25.6	26.0	26.1	26.5	26.9	16.6	17.0	17.1	17.5	17.9
	6H	26.1	26.4	26.6	26.9	27.4	17.0	17.3	17.5	17.8	18.2
	8H	26.2	26.5	26.7	26.9	27.5	17.1	17.4	17.6	17.9	18.4
Variation of the observer position for the luminaire distance S											
S = 1.0H	+0.2 / -0.2					+1.2 / -0.7					
S = 1.5H	+1.0 / -1.0					+2.4 / -1.6					
S = 2.0H	+1.9 / -1.9					+3.2 / -2.2					
Standard table	BK05					BK04					
Correction summand	9.3					-0.4					
Corrected glare indices referring to 176 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	108	105	102	109	106	103	100	101	99	97	97	96	94	94	92	91	89
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	88	82	77	94	87	81	76	84	79	75	81	77	73	79	75	72	70
4	90	80	73	68	88	79	72	67	77	71	66	75	70	66	72	68	65	63
5	84	74	66	61	82	73	66	60	71	64	60	69	63	59	67	62	59	57
6	79	68	60	55	77	67	60	55	65	59	54	63	58	54	62	57	53	51
7	74	62	55	50	72	62	55	50	60	54	49	59	53	49	58	53	49	47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37



ZONAL LUMEN SUMMARY

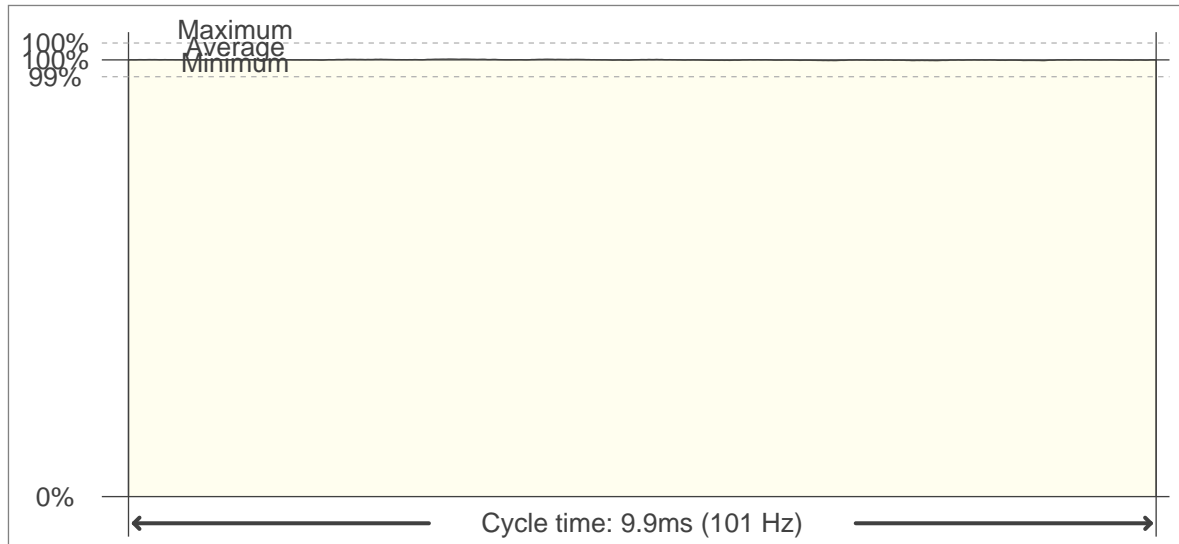
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
11.2 lm	30.9 lm	42.6 lm	35.3 lm	22.7 lm	18.6 lm	9.17 lm	3.93 lm	0.748 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.093 lm	0.083 lm	0.074 lm	0.079 lm	0.091 lm	0.092 lm	0.079 lm	0.055 lm	0.020 lm

FLICKER

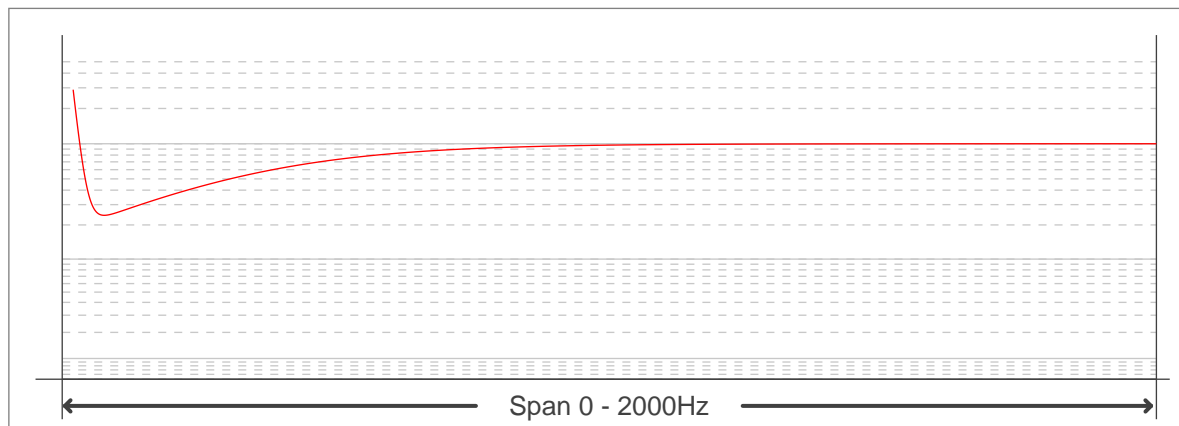
FLICKER CURVE (COMPLETE SAMPLED FLICKER)



FLICKER FRAME (FRAME OF ONE FLICKER PERIOD)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER CURVE)



FLICKER RESULTS:

Flicker frequency:	101.01 Hz
Flicker index:	0
Flicker percentage:	0.25 %
SVM: (Visual flicker)	0

FLICKER CONDITIONS:

Sample rate:	40000 samples/second
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