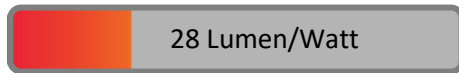


PHOTOMETRIC TEST REPORT

MORI 140 4000K

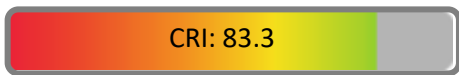
astro

LIGHT EFFICIENCY:



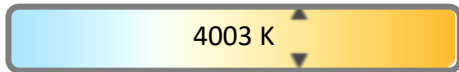
OUTPUT: 117 lm

LIGHT QUALITY:



PEAK: 119 cd

COLOR TEMPERATURE:



POWER: 4.2 W

PF: 0.55

Tracking number: [n/a](#)

Product name:

Mori 140 4000K

Item number:

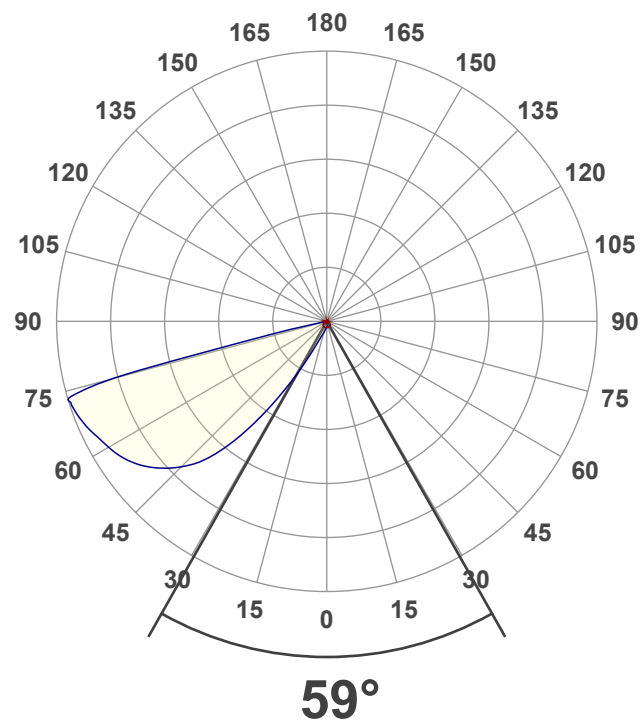
1466001

Date and time:

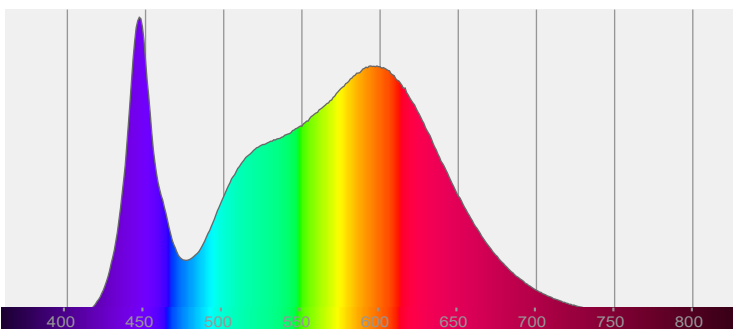
07/11/2022 16:38:02

Description:

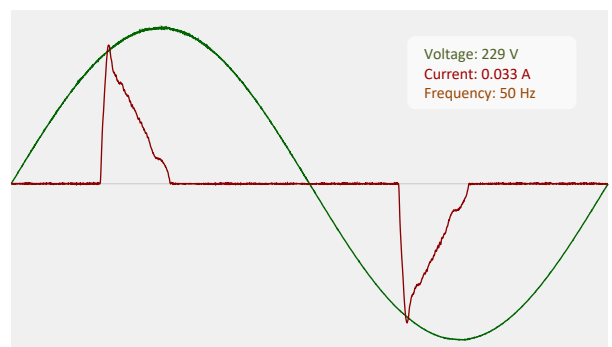
IP65 Outdoor Marker Light 4000K

CIE 1931
x: 0.379
y: 0.370

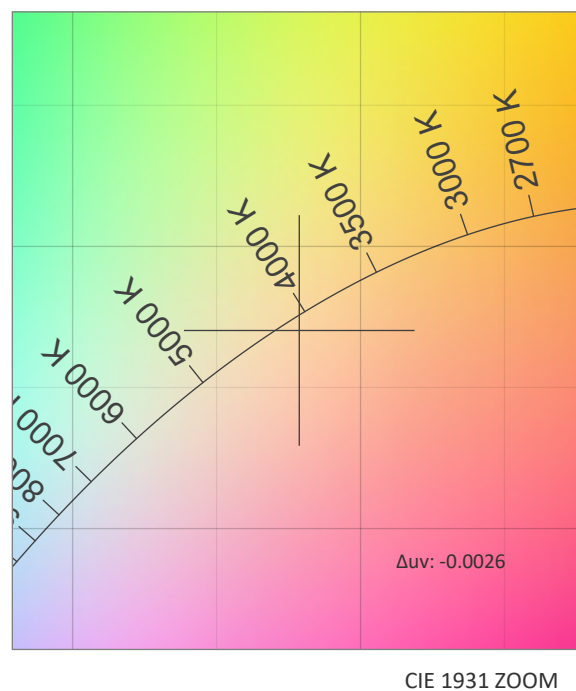
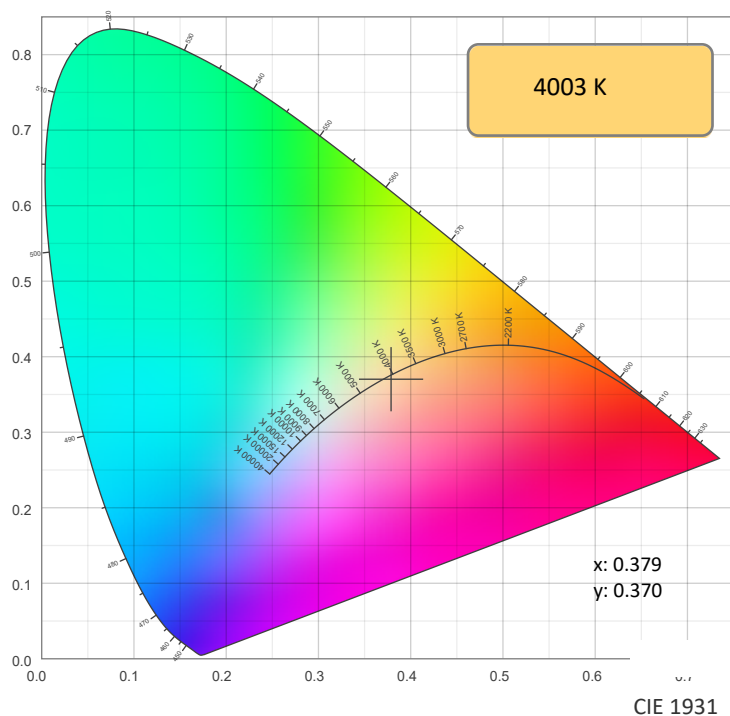
SPECTRA



POWER

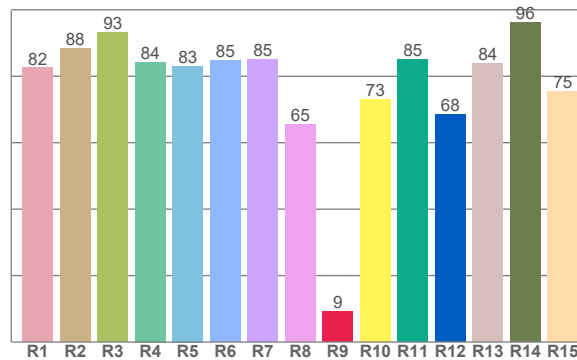
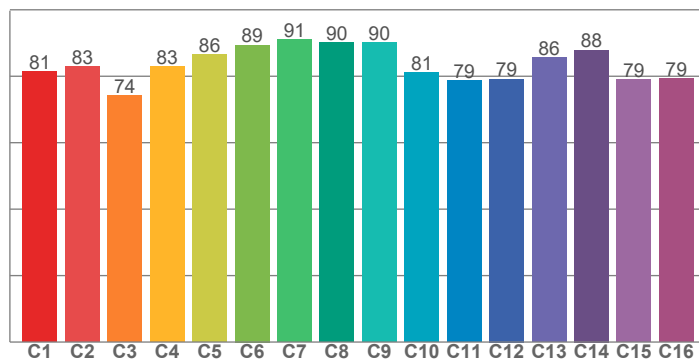


COLOR DETAILS



TM30: 83.4

CRI: 83.3 (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
82.5	88.4	93.2	84.3	83.1	84.7	85.2	65.4	9.3	73.0	85.0	68.4	83.8	96.2	75.4

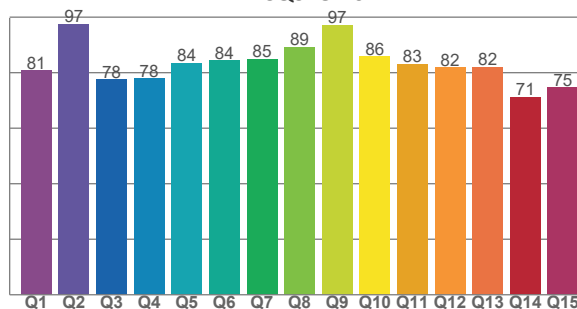
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.4	82.8	74.3	82.8	86.4	89.4	91.2	90.2	90.1	81.1	78.7	79.2	85.5	87.9	79.1	79.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80.7	97.5	77.5	77.9	83.6	84.3	85.0	89.1	97.1	85.7	83.1	81.9	82.1	71.2	74.6

CQS: 82.0



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
4003 K	83.3	9.3	83.4	98.7	82.0	0.379	0.370	0.227	0.332	-0.0026

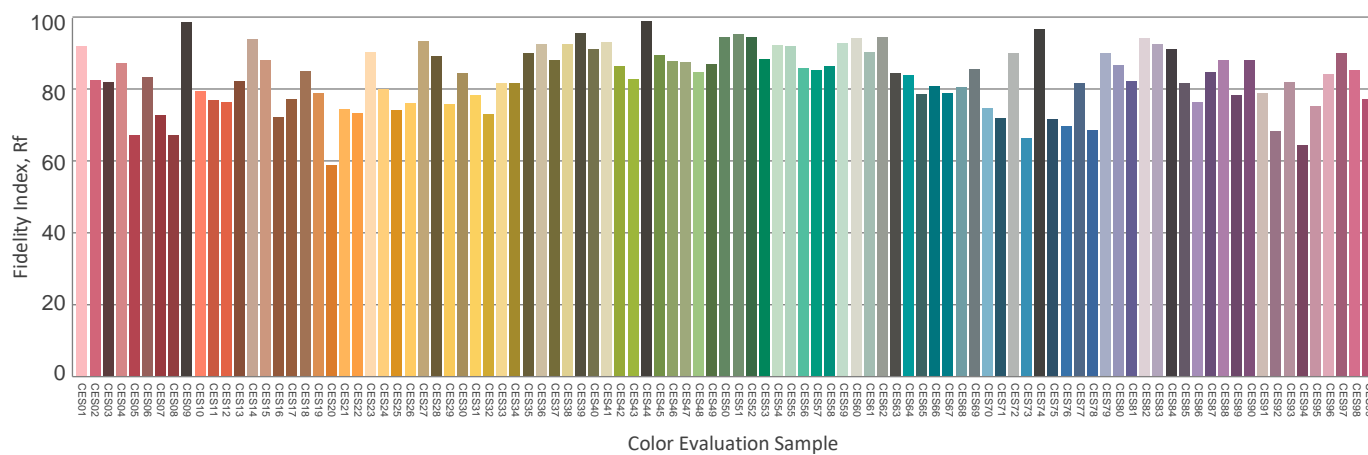
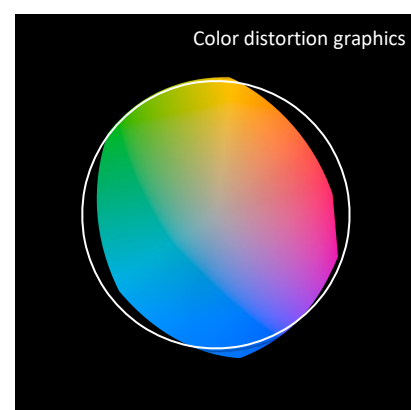
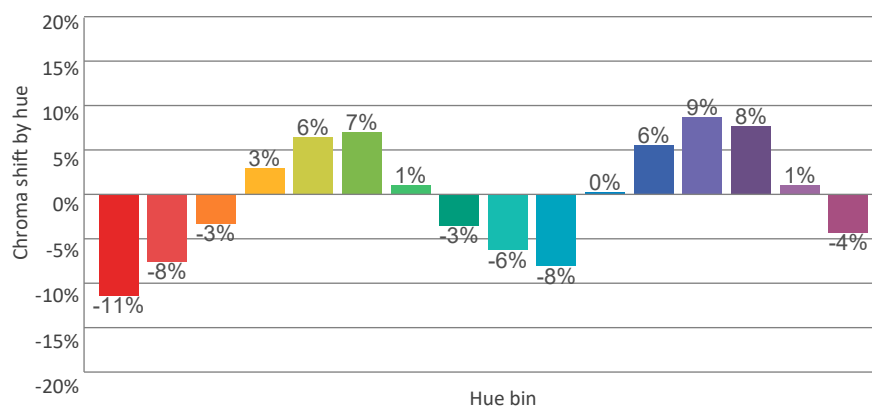
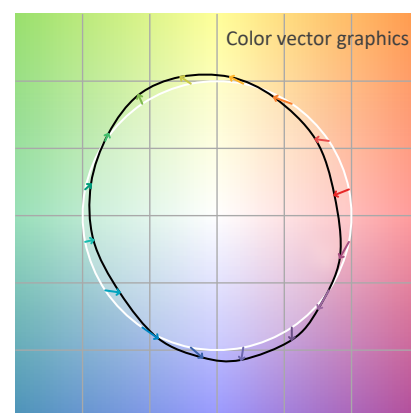
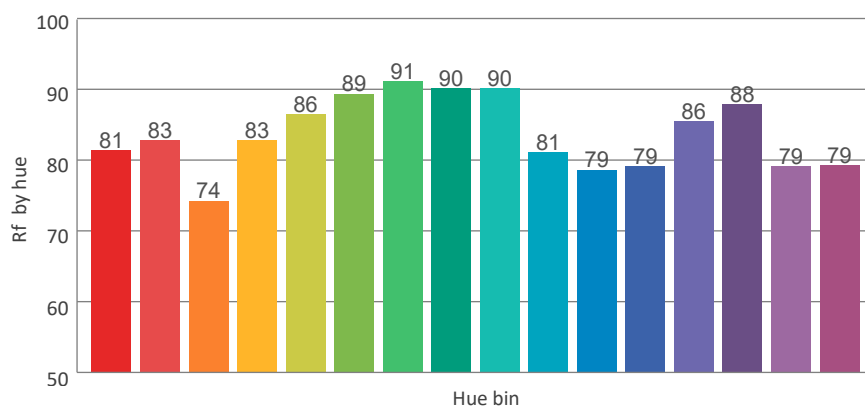
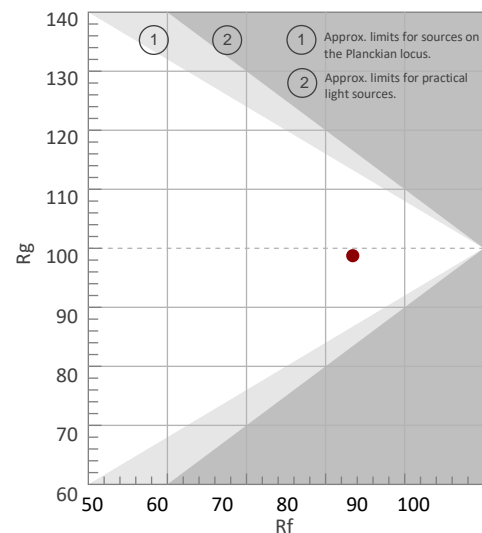
Rf 83.4

Fidelity index Rf

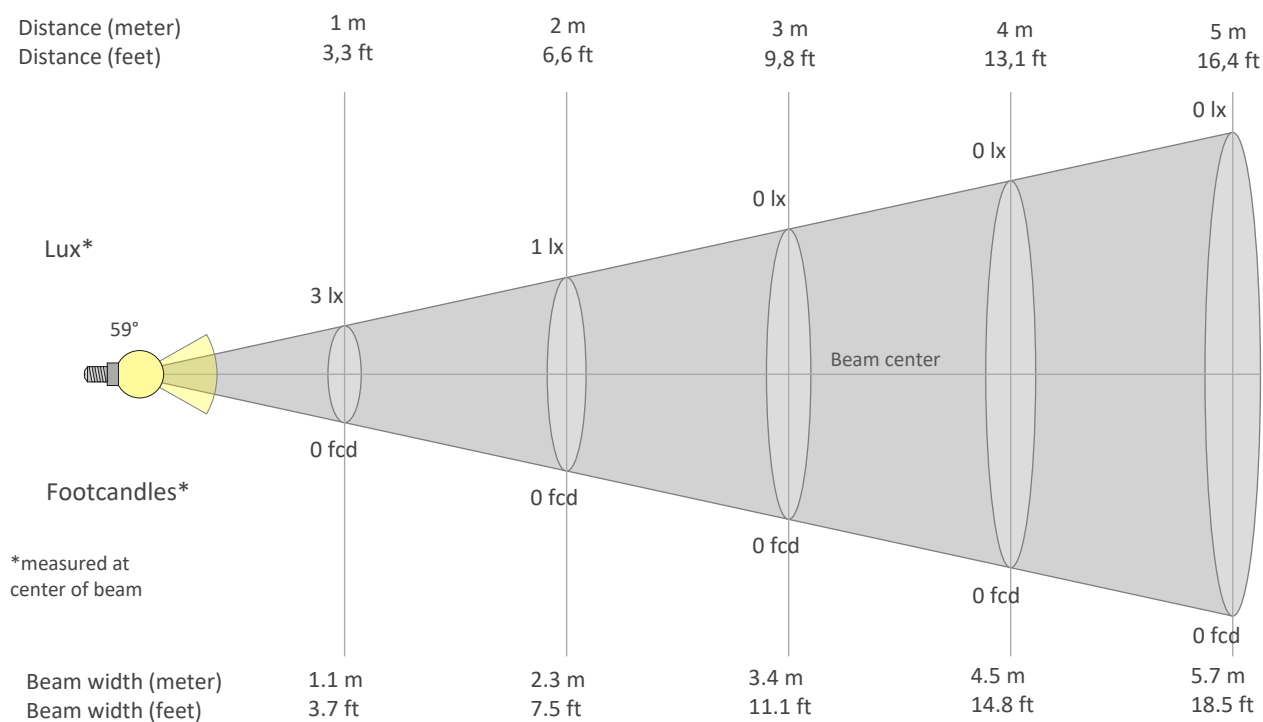
Rg 98.7

Gammut index Rg

Hue Bin	Graphic shifts (%)		
	R _f	Chroma	Hue
1	81	-11%	-2%
2	83	-8%	7%
3	74	-3%	14%
4	83	3%	11%
5	86	6%	6%
6	89	7%	-1%
7	91	1%	-6%
8	90	-3%	-5%
9	90	-6%	0%
10	81	-8%	7%
11	79	0%	14%
12	79	6%	10%
13	86	9%	-3%
14	88	8%	-5%
15	79	1%	-16%
16	79	-4%	-13%



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
3lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
0.3fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
2.70	2.81	2.81	2.78	2.78	2.77	2.76	2.75	2.72	2.71	2.69	2.67	2.63	2.60	2.58	2.52	2.50	2.44	2.39	2.33
100%	104%	104%	103%	103%	103%	103%	102%	101%	100%	100%	99%	98%	96%	96%	94%	93%	91%	89%	86%

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°
2.70	2.26	2.09	1.92	1.76	1.62	1.50	1.40	1.32	1.21	1.15	1.07	1.00	0.92	0.86	0.80	0.74	0.70	0.62	0.59
100%	84%	77%	71%	65%	60%	56%	52%	49%	45%	43%	40%	37%	34%	32%	30%	27%	26%	23%	22%

Intensities in 180° c-plane

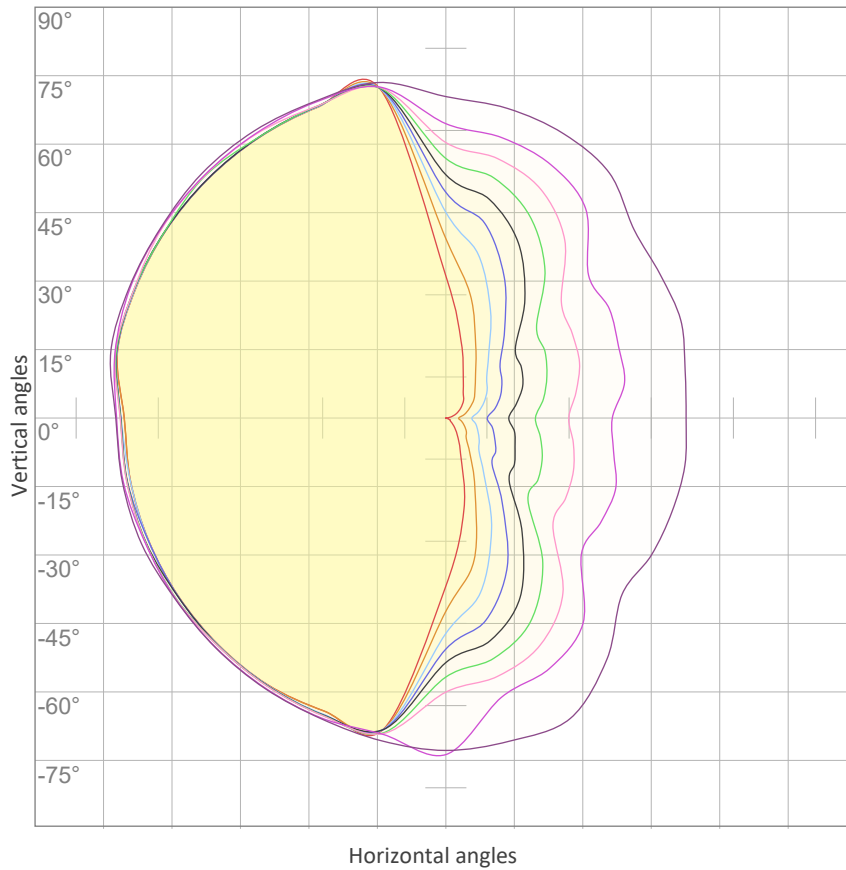
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2.70	2.83	2.82	2.83	2.85	2.84	2.83	2.83	2.84	2.83	2.82	2.80	2.79	2.75	2.75	2.70	2.65	2.61	2.57	2.51
100%	105%	105%	105%	106%	105%	105%	105%	105%	105%	105%	104%	103%	102%	102%	100%	98%	97%	95%	93%

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°
3	3	3	3	3	4	4	5	5	6	7	9	11	15	21	29	38	48	58	68
100%	98%	106%	117%	129%	144%	160%	180%	203%	231%	269%	328%	422%	569%	782%	1060%	1395%	1773%	2155%	2522%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
59°	81.1°	107.9°	52.6%	18.7%

ISO CANDELA DIAGRAM



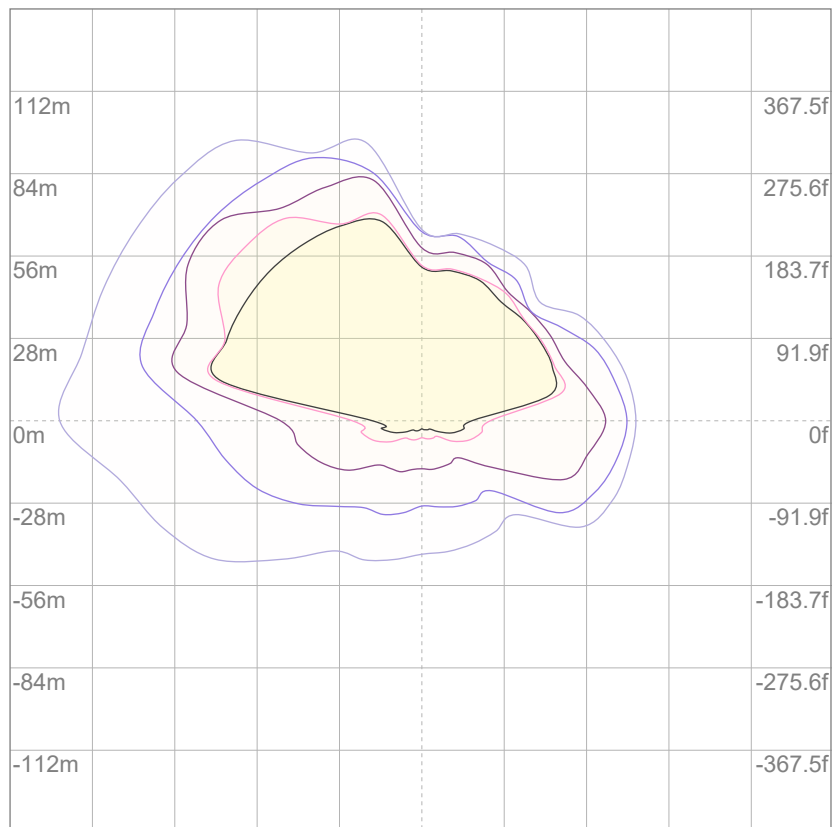
10%	0 cd
20%	1 cd
30%	1 cd
40%	1 cd
50%	1 cd
60%	2 cd
70%	2 cd
80%	2 cd
90%	2 cd

Conditions:

Number of c-planes: 8

Candela at center: 3 cd

ISO LUX DIAGRAM



3%	809u lx
5%	1.35m lx
10%	2.70m lx
30%	8.09m lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 27.0m lx

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

GLARE EVALUATION ACCORDING TO UGR

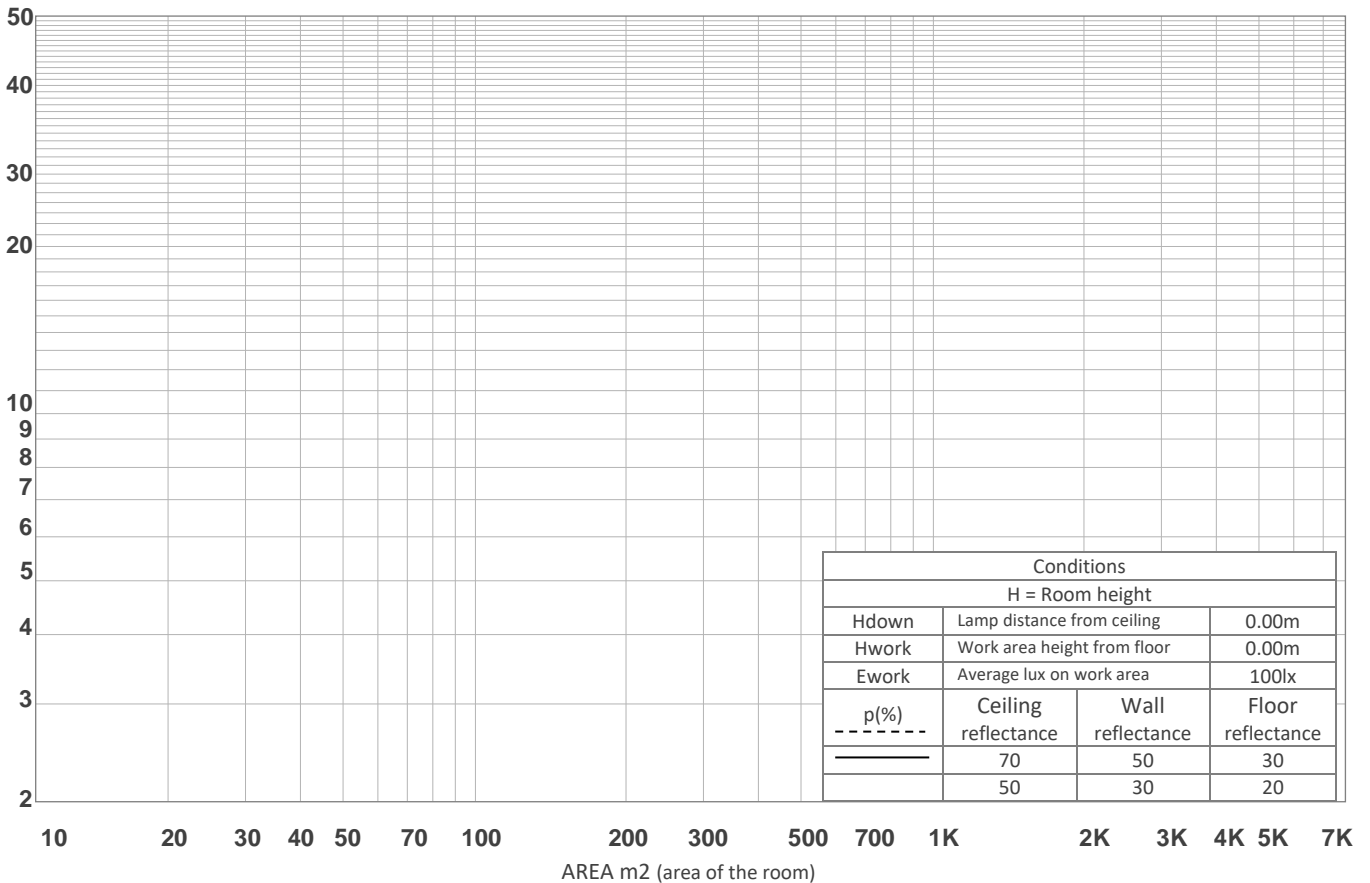
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	105	98	93	87	102	96	91	86	92	87	83	87	84	80	84	81	78	76
2	91	80	70	63	88	78	69	62	74	67	60	70	64	59	67	62	57	55
3	80	66	55	46	77	64	54	45	60	52	44	57	50	43	55	48	43	40
4	70	55	43	35	68	53	43	34	50	41	34	48	40	33	45	38	32	30
5	63	47	35	27	61	45	34	26	43	33	26	41	32	26	39	31	25	22
6	57	40	29	21	55	39	29	21	37	28	21	35	27	20	33	26	20	17
7	52	35	24	17	50	34	24	17	33	23	17	31	23	16	29	22	16	14
8	47	31	21	14	46	30	21	14	29	20	14	27	19	13	26	19	13	11
9	44	28	18	11	42	27	18	11	26	17	11	25	17	11	24	16	11	9
10	41	25	16	10	39	25	16	10	23	15	9	22	15	9	21	14	9	7

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM



ZONAL LUMEN SUMMARY

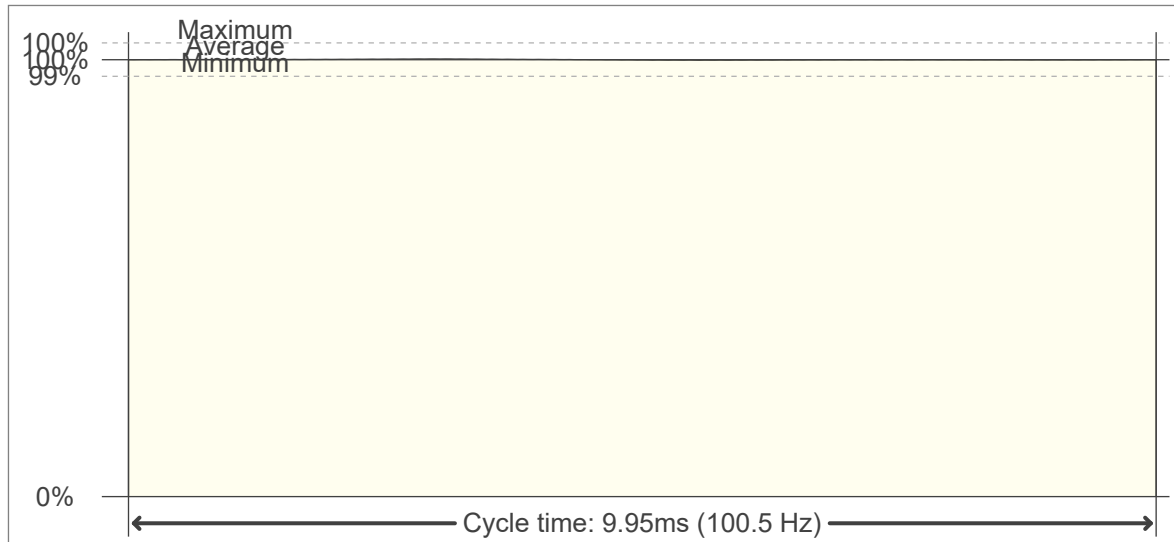
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
0.266 lm	0.913 lm	2.50 lm	9.27 lm	20.5 lm	28.3 lm	32.3 lm	22.6 lm	0.586 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.017 lm	0.017 lm	0.016 lm	0.012 lm	0.011 lm	0.008 lm	0.005 lm	0.003 lm	0.001 lm

FLICKER

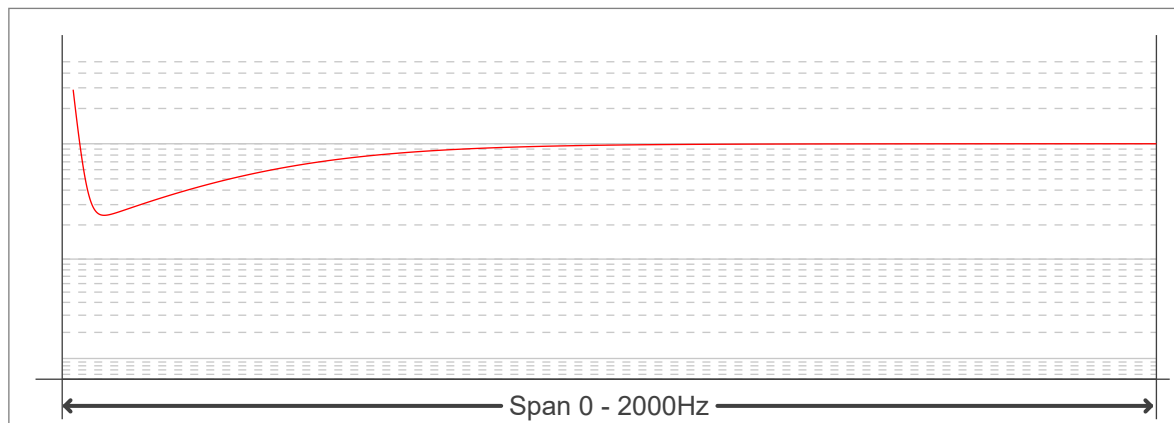
FLICKER CURVE (COMPLETE SAMPLED FLICKER)



FLICKER FRAME (FRAME OF ONE FLICKER PERIOD)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER CURVE)



FLICKER RESULTS:

Flicker frequency:	100.5 Hz
Flicker index:	0
Flicker percentage:	0.18 %
SVM: (Visual flicker)	0

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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