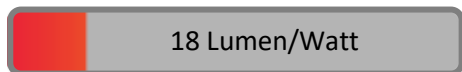


PHOTOMETRIC TEST REPORT

MONDRIAN 400 - MATT BLACK

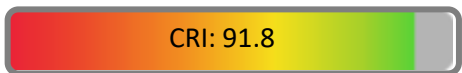
astro

LIGHT EFFICIENCY:



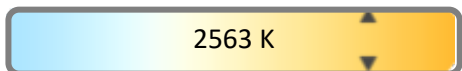
OUTPUT: 127 lm

LIGHT QUALITY:



PEAK: 104 cd

COLOR TEMPERATURE:



POWER: 7.0 W

PF: 0.73

Tracking number: [n/a](#)

Product name:

Mondrian 400 - Matt Black

Item number:

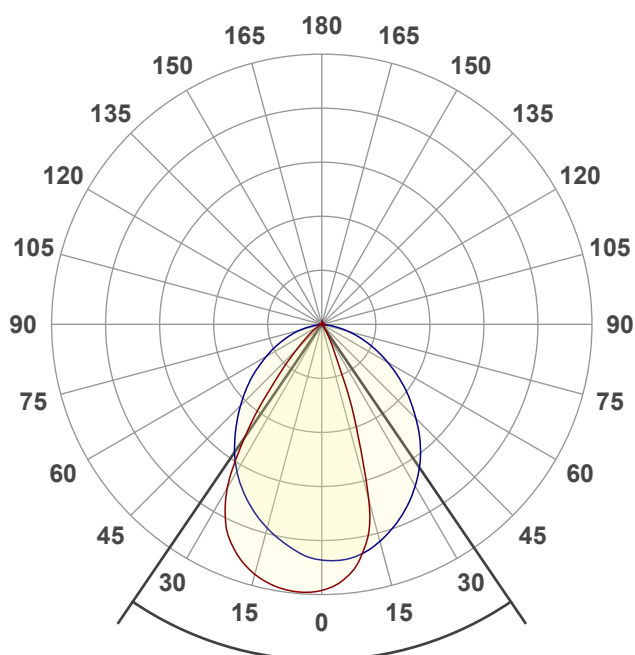
1374xxx

Date and time:

10/01/2023 11:13:17

Description:

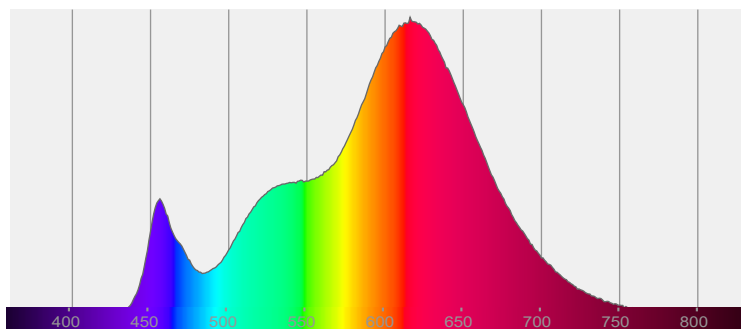
IP20 Indoor Picture light



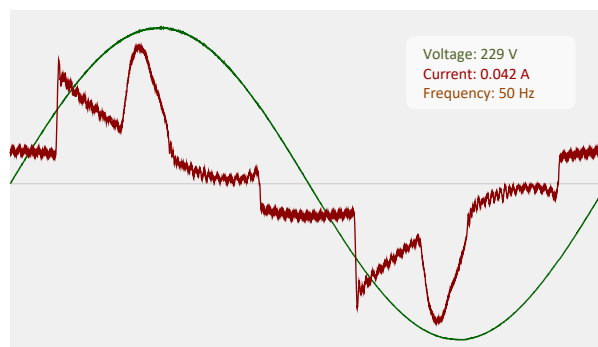
68.6°

CIE 1931
x: 0.466
y: 0.403

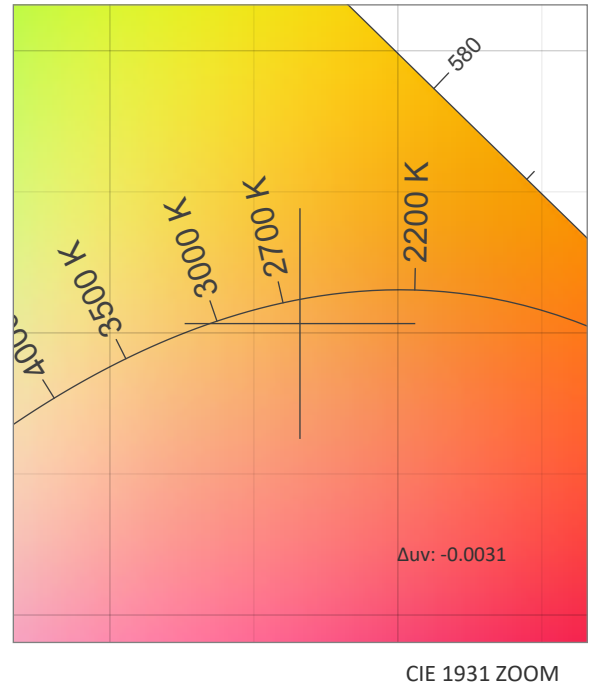
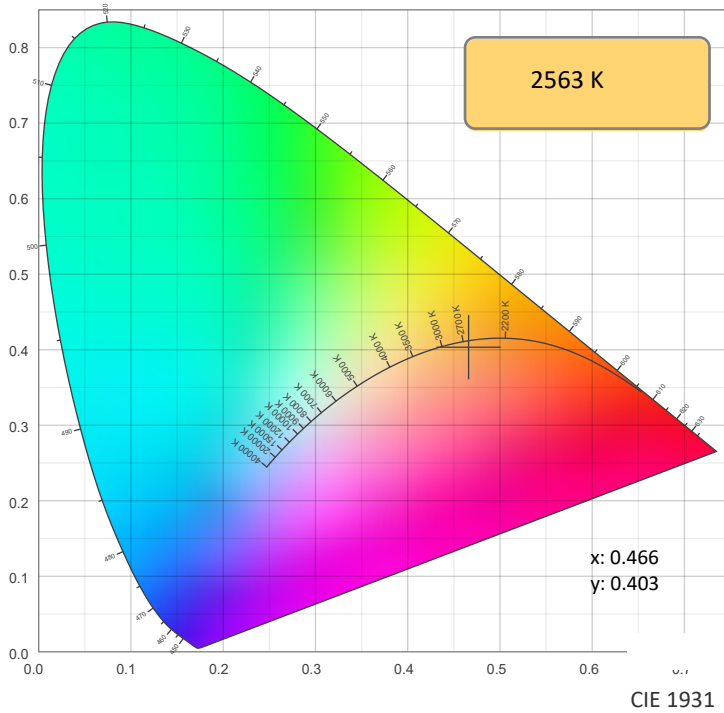
SPECTRA



POWER

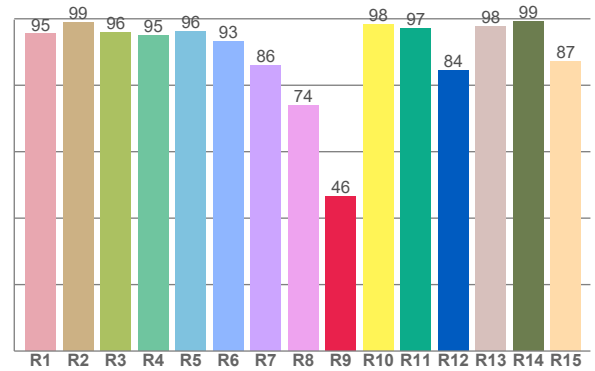
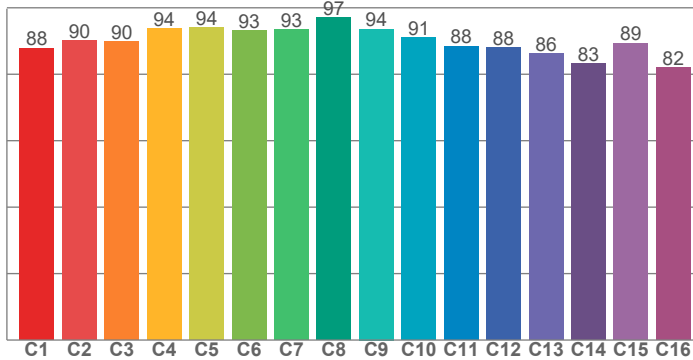


COLOR DETAILS



TM30: 90.1

CRI: 91.8 (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
95.4	98.9	95.8	94.9	96.2	93.1	86.0	73.9	46.5	98.4	97.2	84.5	97.7	99.1	87.2

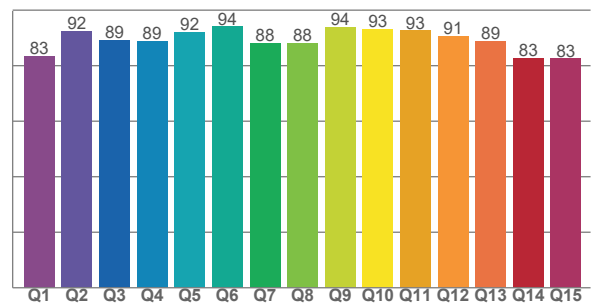
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87.9	90.3	89.7	93.7	94.0	93.0	93.4	96.9	93.6	91.0	88.5	88.0	86.1	83.2	89.4	82.0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
83.4	92.4	89.3	88.9	92.0	94.1	88.2	88.3	94.0	93.2	92.6	90.6	88.9	82.6	82.6

CQS: 88.5



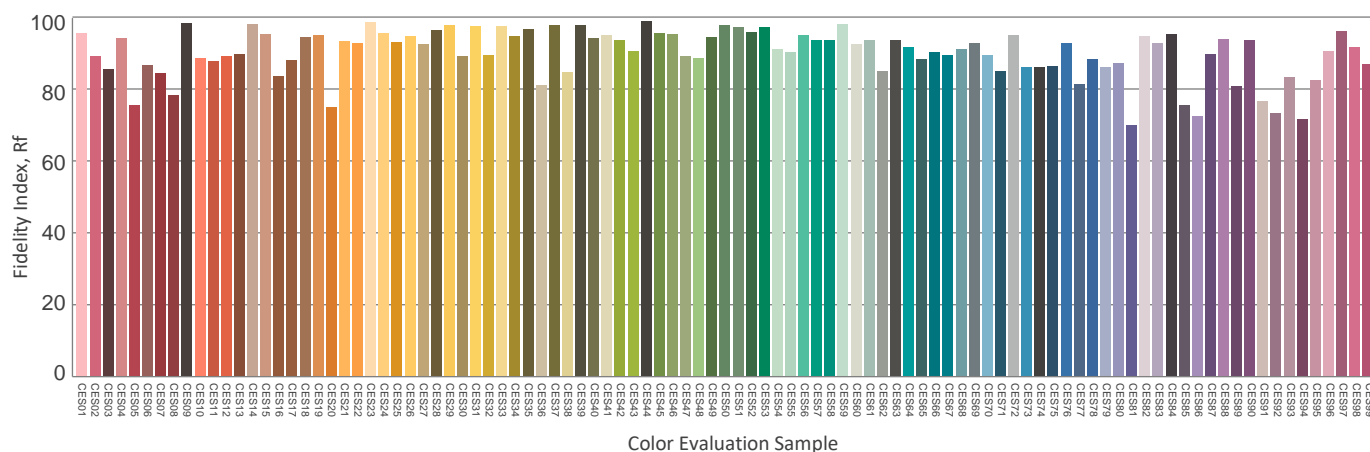
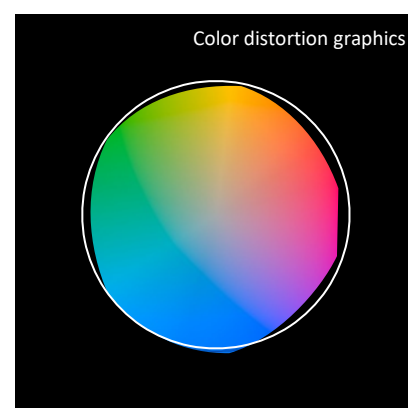
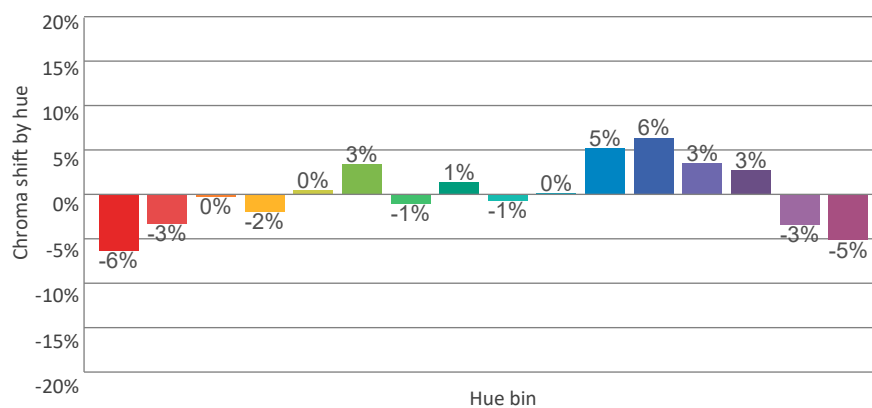
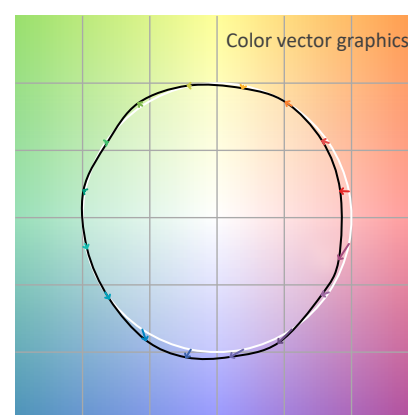
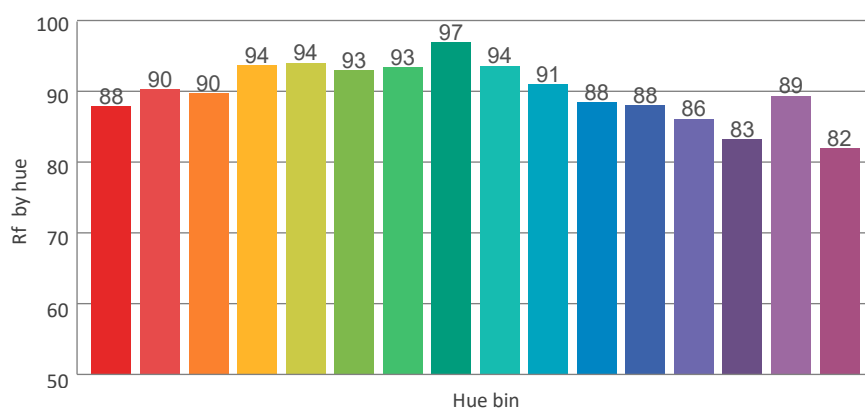
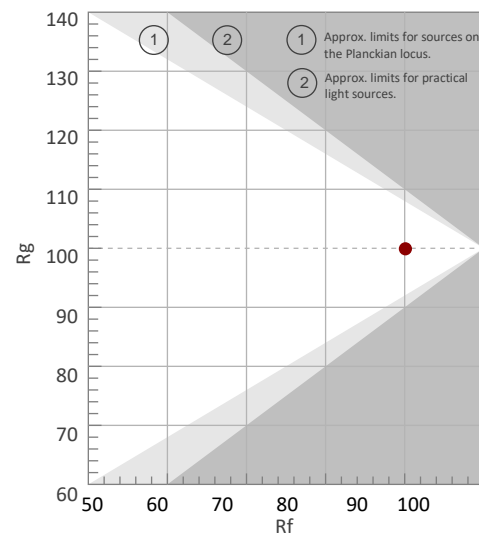
COLOR PARAMETERS

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
2563 K	91.8	46.5	90.1	99.9	88.5	0.466	0.403	0.270	0.350	-0.0031

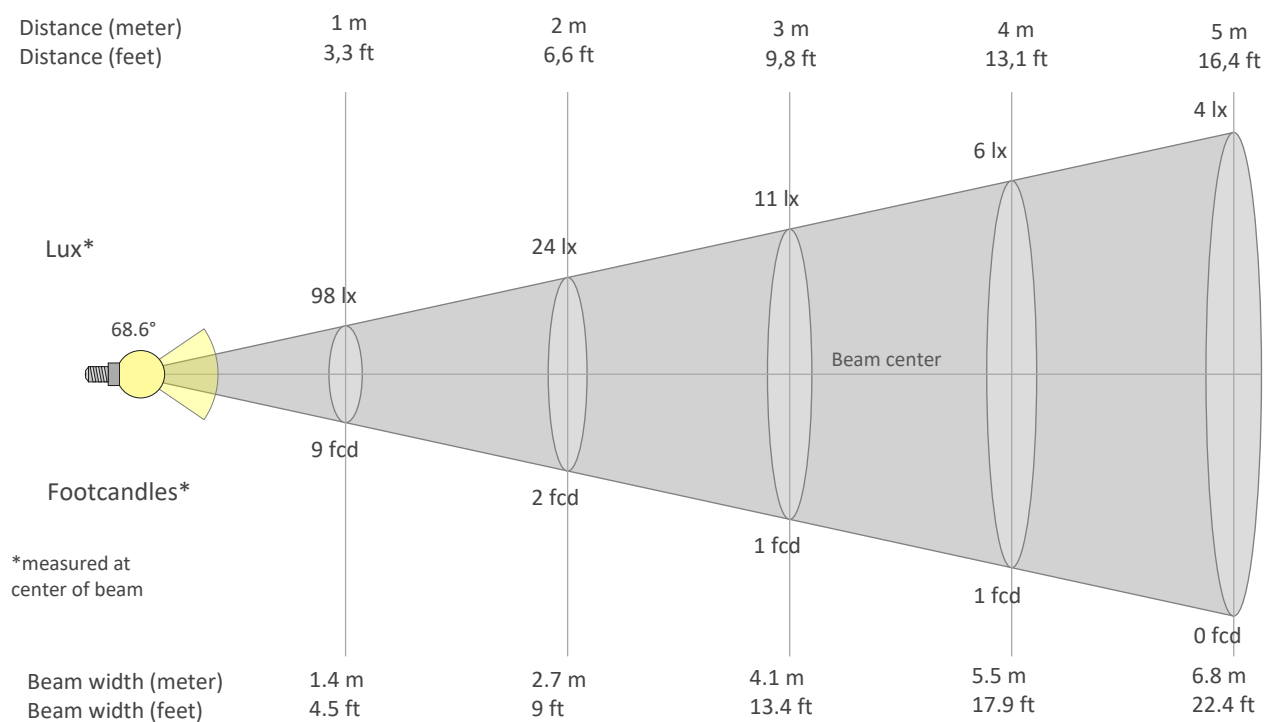
Rf 90.1
Fidelity index Rf

Rg 99.9
Gammut index Rg

Hue Bin	Graphic shifts (%)		
	Rf	Chroma	Hue
1	88	-6%	1%
2	90	-3%	4%
3	90	0%	5%
4	94	-2%	0%
5	94	0%	2%
6	93	3%	1%
7	93	-1%	-2%
8	97	1%	0%
9	94	-1%	4%
10	91	0%	5%
11	88	5%	7%
12	88	6%	-2%
13	86	3%	-10%
14	83	3%	-14%
15	89	-3%	-5%
16	82	-5%	-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
98lx	24lx	11lx	6lx	4lx	3lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
9.1fcd	2.3fcd	1fcd	0.6fcd	0.4fcd	0.3fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	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°
98	99	90	70	34	11	5	2	1	0	0	0	0	0	0	0	0	0	0	0
100%	101%	91%	71%	35%	11%	5%	2%	1%	0%	0%	0%	0%	0%	0%	0%	0%	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°
98.0	91.4	89.9	86.8	82.7	77.8	72.3	66.1	59.2	51.6	44.2	36.8	29.6	22.9	16.6	10.8	5.5	1.4	0.3	0.2
100%	93%	92%	89%	84%	79%	74%	67%	60%	53%	45%	38%	30%	23%	17%	11%	6%	1%	0%	0%

Intensities in 180° c-plane

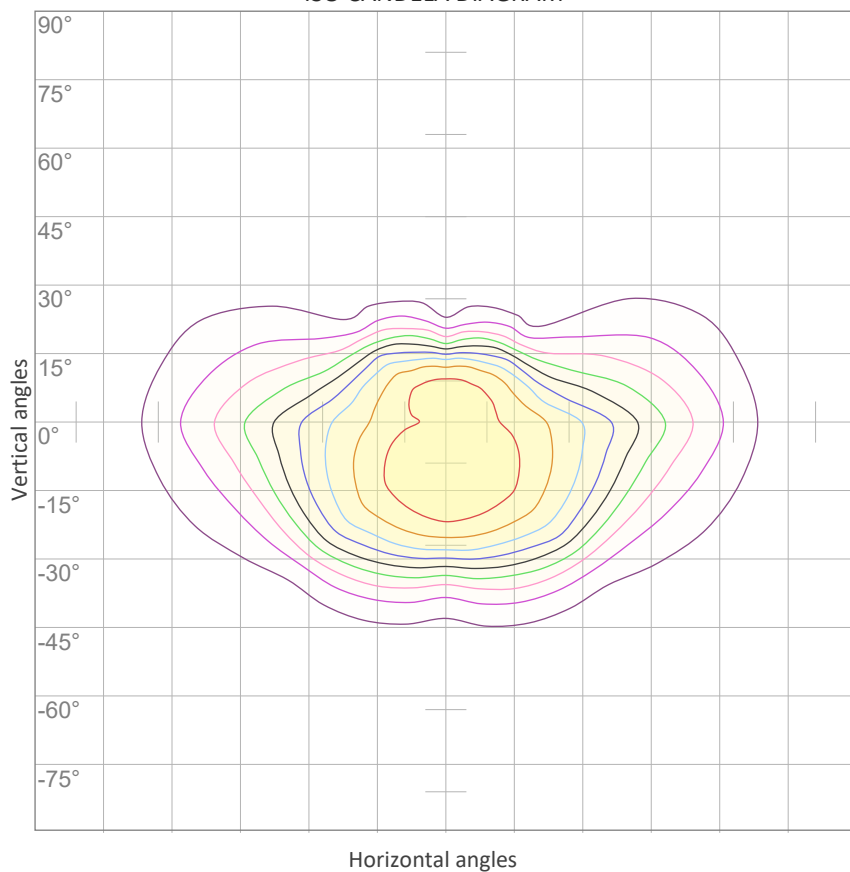
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
98	104	103	100	95	87	73	50	27	14	7	4	2	1	1	1	1	0	0	0
100%	106%	105%	102%	97%	89%	74%	51%	28%	14%	7%	4%	2%	1%	1%	1%	1%	0%	0%	0%

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°
98.0	89.2	85.6	81.6	76.9	71.6	65.6	58.9	51.6	44.5	37.7	31.1	24.8	19.1	13.7	8.8	4.0	0.6	0.1	0.0
100%	91%	87%	83%	79%	73%	67%	60%	53%	45%	39%	32%	25%	20%	14%	9%	4%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
68.6°	100.6°	117.8°	91.5%	77.0%

ISO CANDELA DIAGRAM



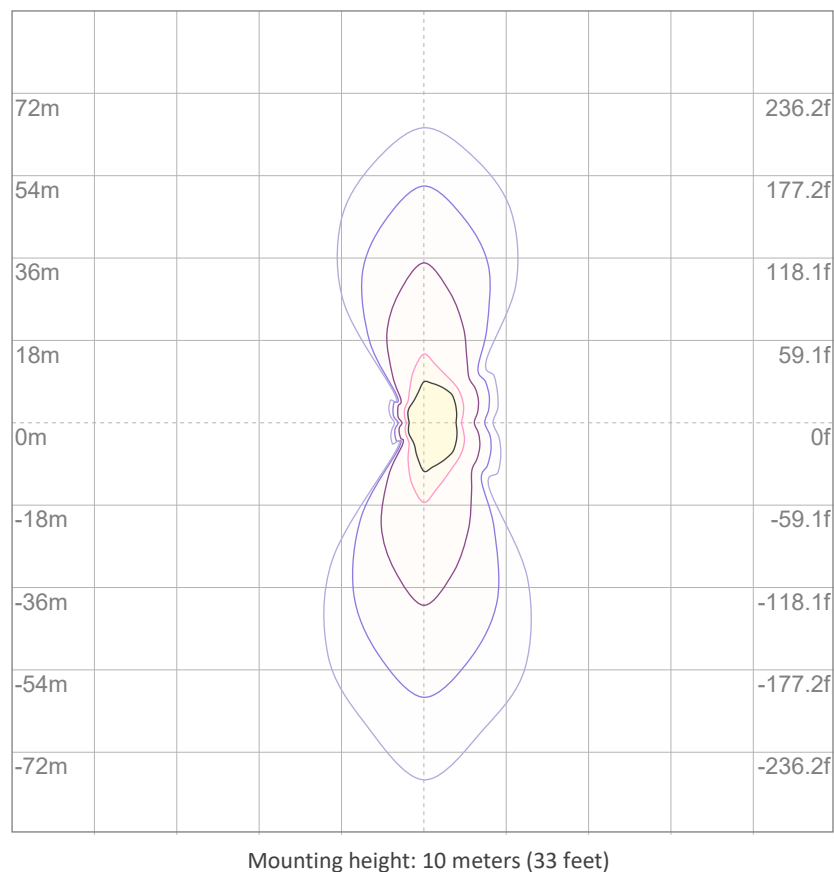
10%	10 cd
20%	20 cd
30%	29 cd
40%	39 cd
50%	49 cd
60%	59 cd
70%	69 cd
80%	78 cd
90%	88 cd

Conditions:

Number of c-planes: 8

Candela at center: 98 cd

ISO LUX DIAGRAM



3%	29.4m lx
5%	49.0m lx
10%	98.0m lx
30%	0.294 lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 0.980 lx

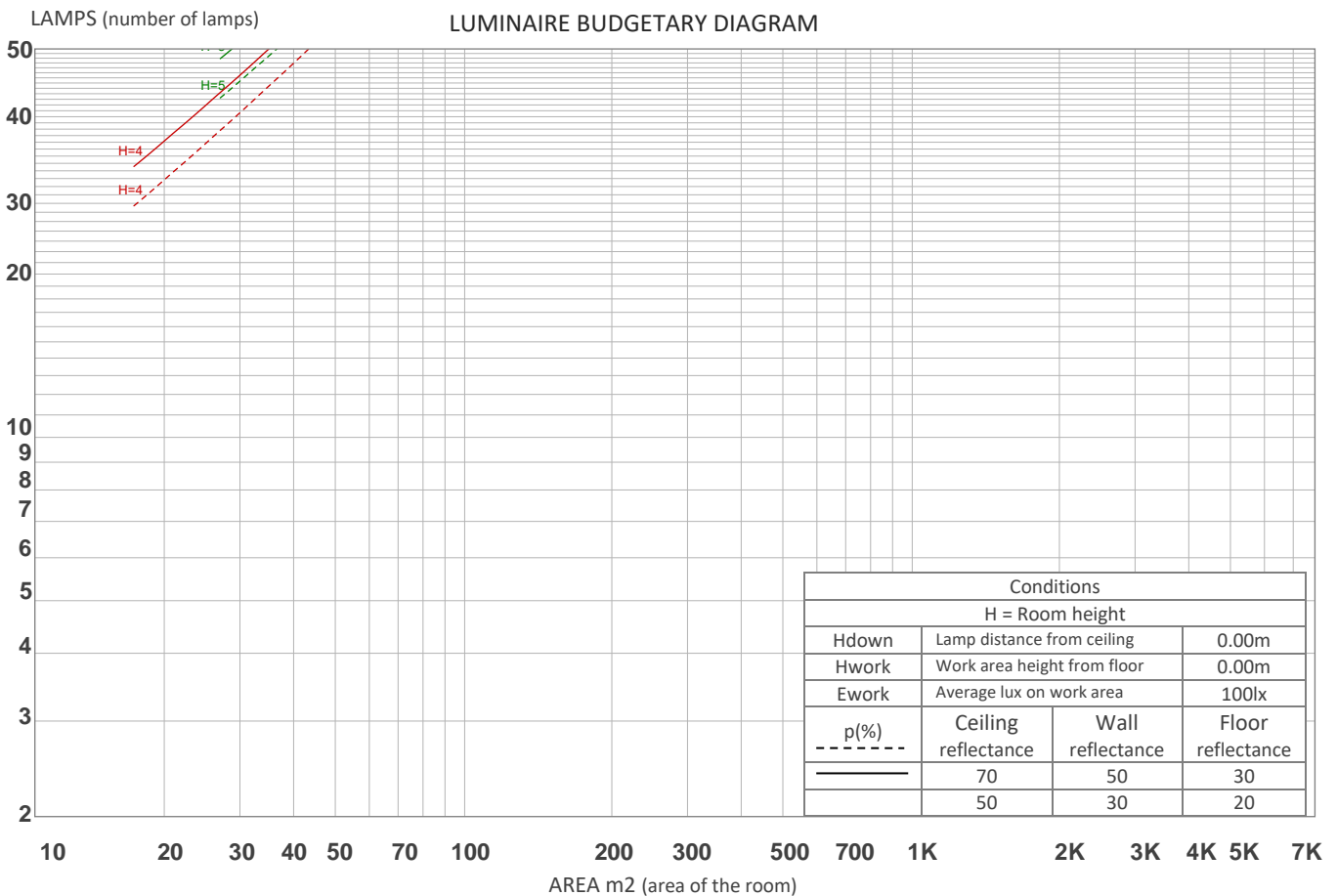
Lux distribution on a surface when lamp is mounted at 10 meters from the surface.

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	101	101	101	99
1	111	108	105	102	109	106	103	100	101	99	97	97	95	94	94	92	91	89
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	89	82	77	95	87	81	77	84	79	75	82	77	74	79	76	73	71
4	91	81	74	69	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	52
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	58	54	50	48
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	51	45	40	62	51	44	40	50	44	40	49	44	40	48	43	40	38



ZONAL LUMEN SUMMARY

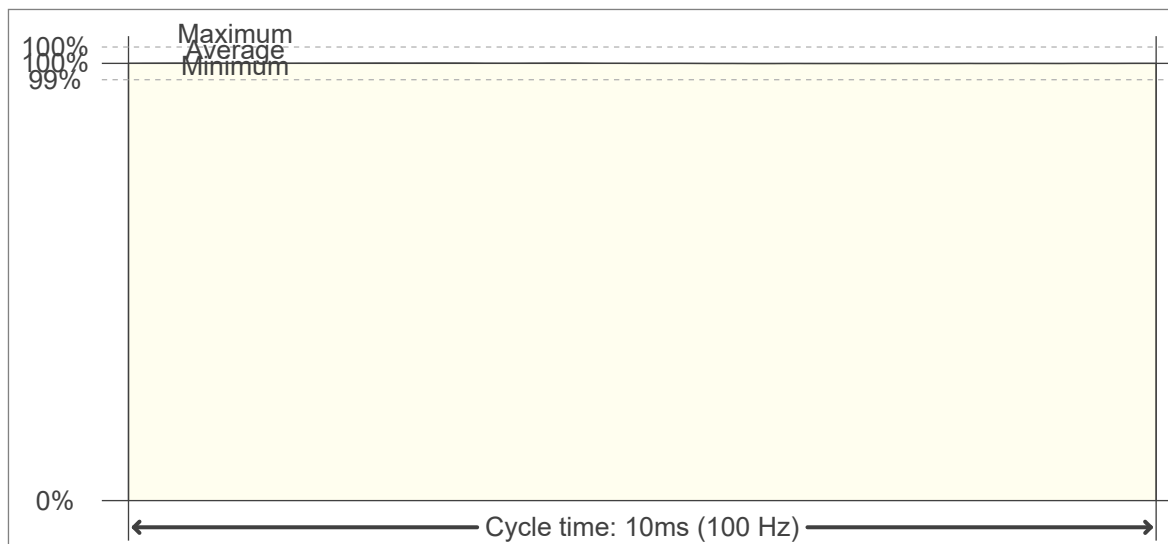
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
9.12 lm	24.0 lm	28.8 lm	25.6 lm	18.0 lm	10.5 lm	5.97 lm	2.94 lm	0.549 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.159 lm	0.163 lm	0.176 lm	0.181 lm	0.196 lm	0.186 lm	0.152 lm	0.095 lm	0.033 lm

FLICKER

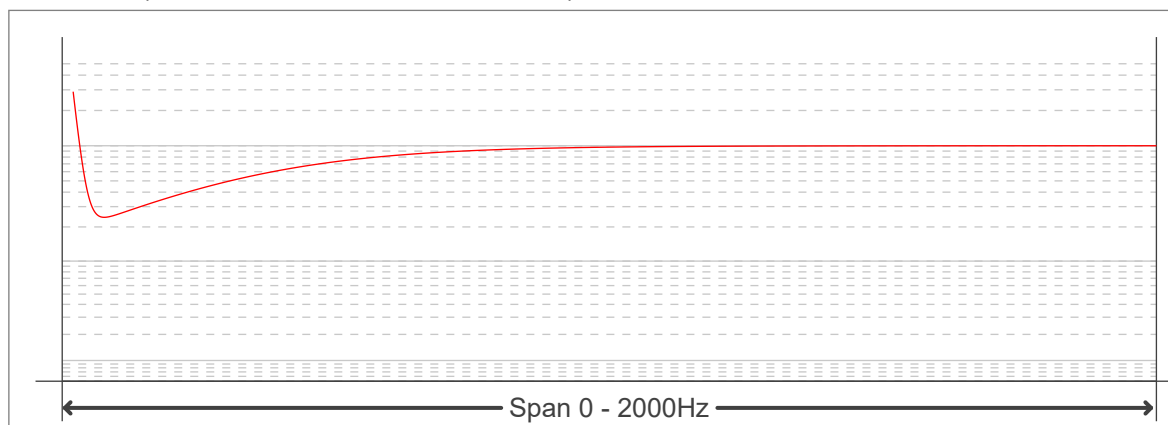
FLICKER CURVE (COMPLETE SAMPLED FLICKER)



FLICKER FRAME (FRAME OF ONE FLICKER PERIOD)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER CURVE)



FLICKER RESULTS:

Flicker frequency:	100 Hz
Flicker index:	0
Flicker percentage:	0.13 %
SVM: (Visual flicker)	0

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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