

PHOTOMETRIC TEST REPORT

NIIMI ROUND LED POLISHED
CHROME

astro

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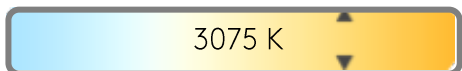
LIGHT EFFICIENCY:



LIGHT QUALITY:



COLOR TEMPERATURE:



OUTPUT: 146 lm
PEAK: 35.7 cd
POWER: 6.0 W
PF: 0.79



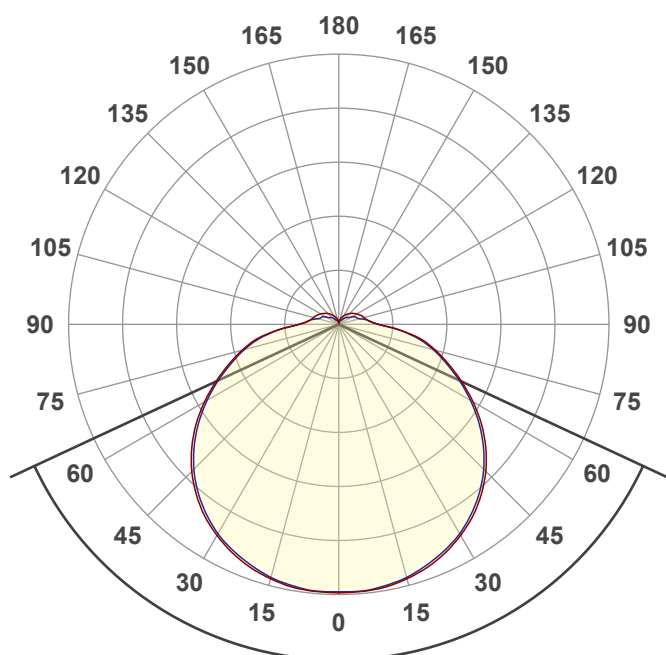
Tracking number: [n/a](#)

Product name:
Niimi Round LED Polished Chrome

Item number:
1163008

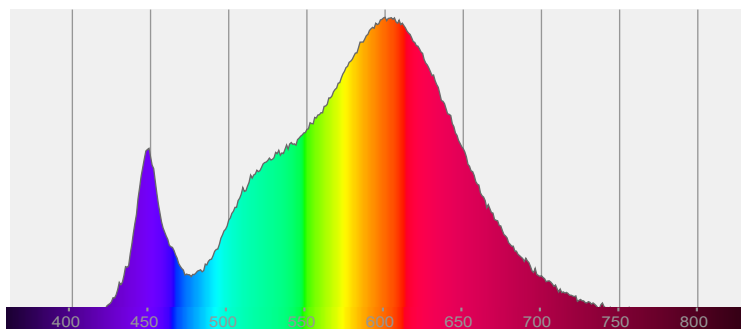
Date and time:
21/06/2021 12:10:16

Description:
IP44 LED Illuminated Mirror

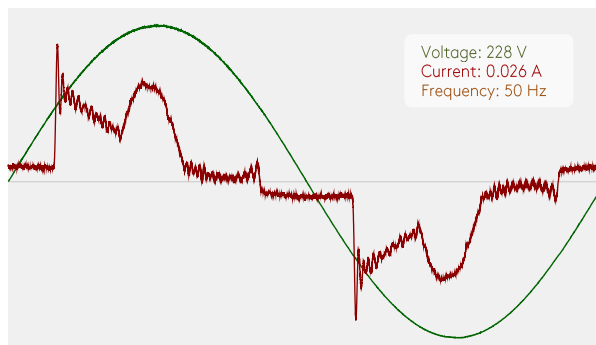


CIE 1931
x: 0.435
y: 0.408

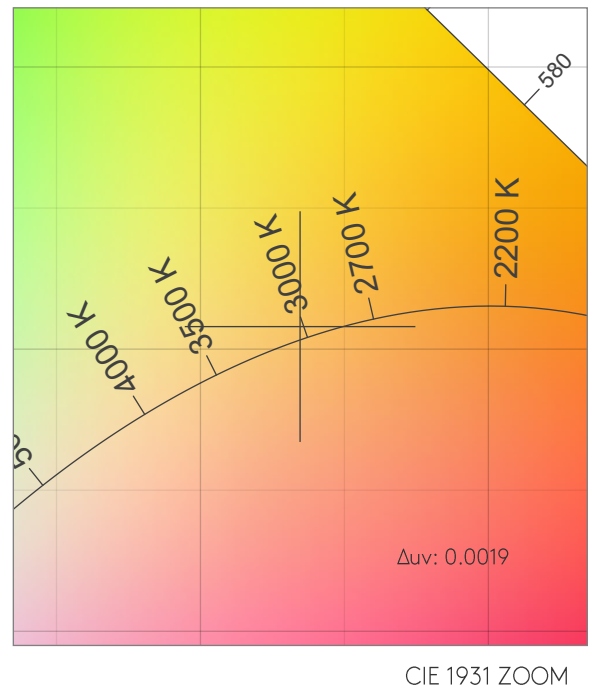
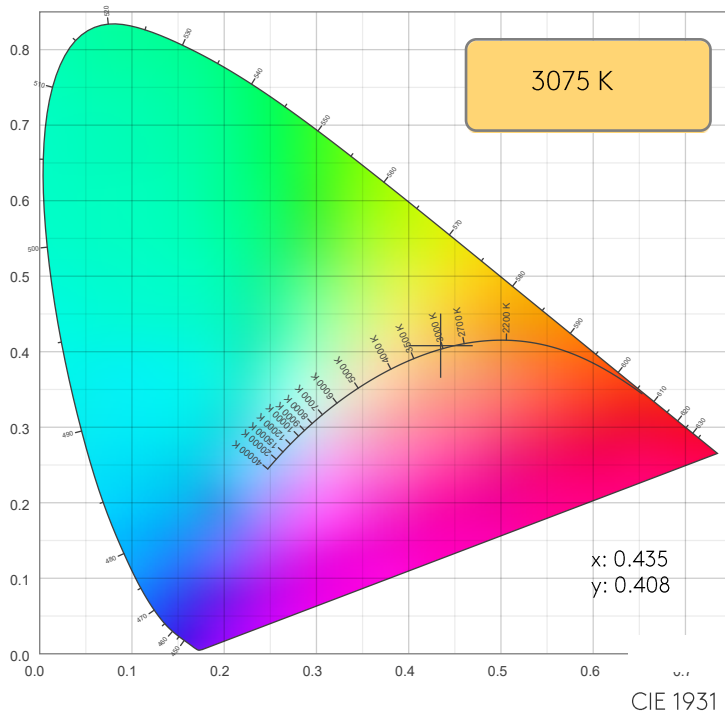
SPECTRA



POWER

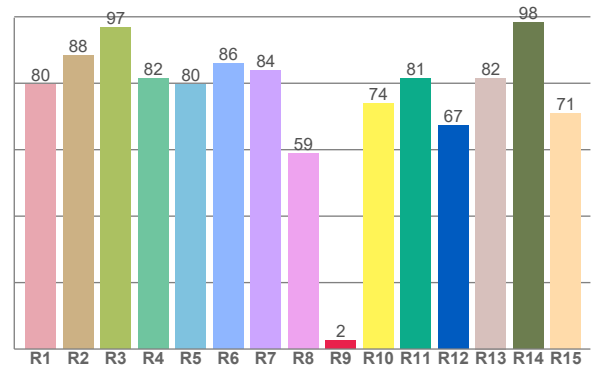
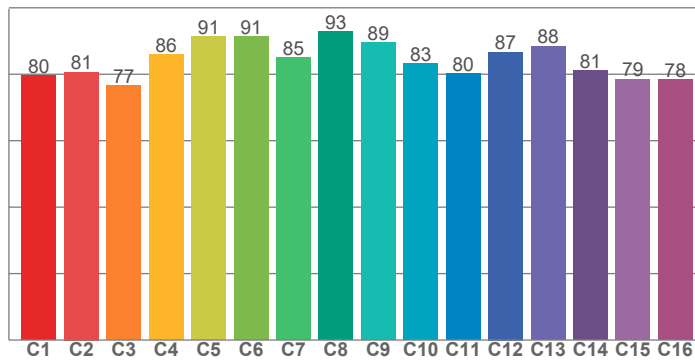


COLOR DETAILS



TM30: 84.2

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
79.7	88.4	96.7	81.5	79.7	86.0	83.8	58.8	2.5	74.0	81.4	67.3	81.6	98.2	70.9

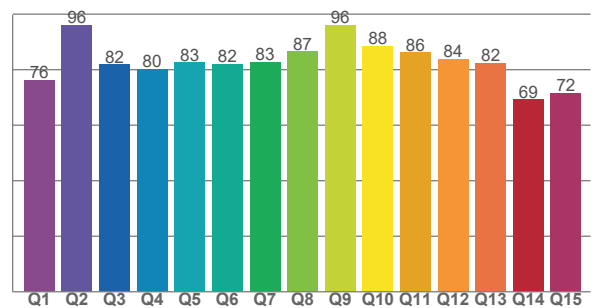
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.5	80.7	76.6	85.9	91.4	91.3	85.1	92.9	89.5	83.1	80.2	86.7	88.5	81.0	78.5	78.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
76.3	96.0	81.8	80.3	82.6	82.1	82.8	86.5	96.1	88.5	86.2	83.8	82.5	69.2	71.7

CQS: 81.5



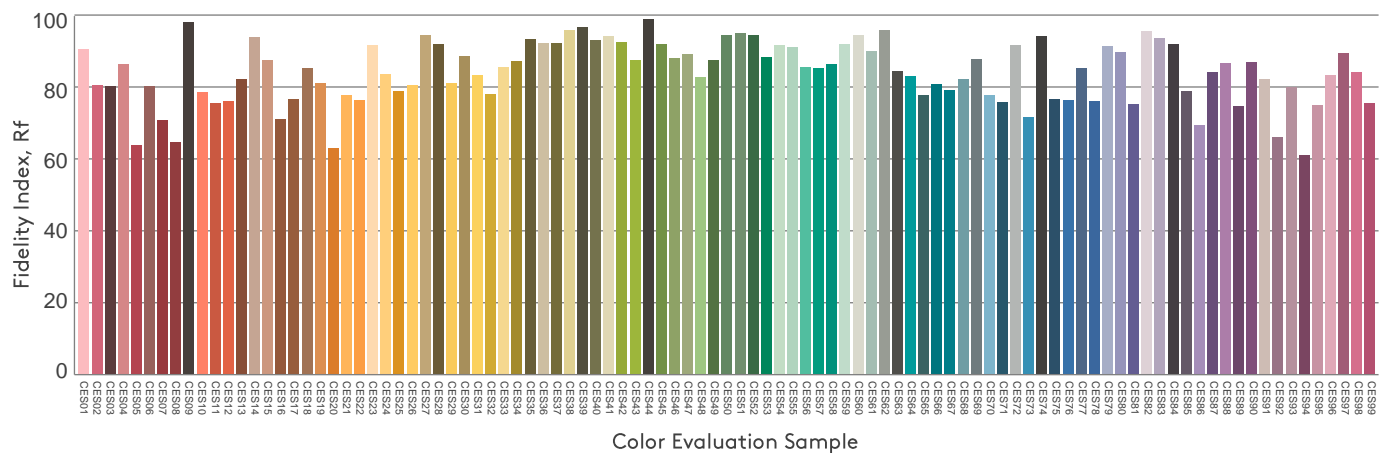
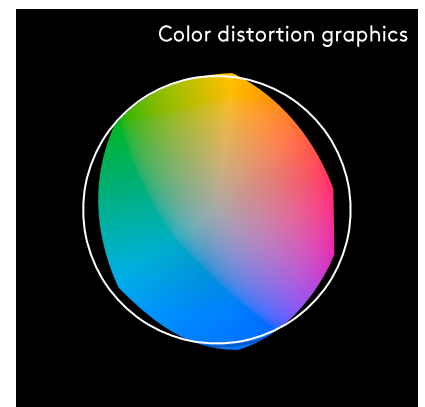
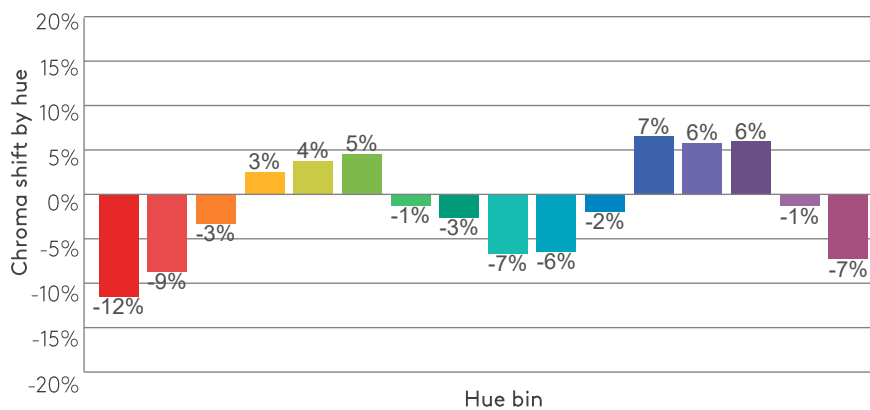
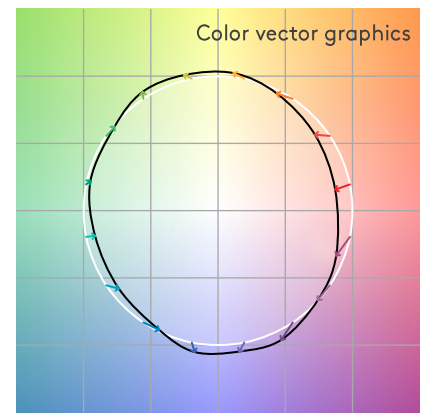
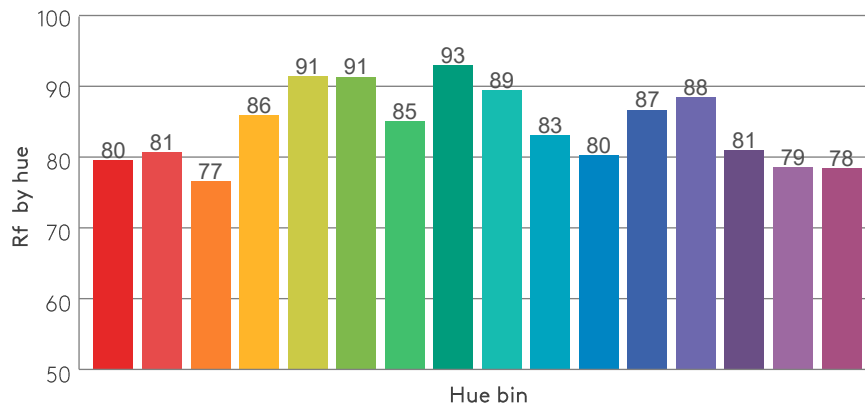
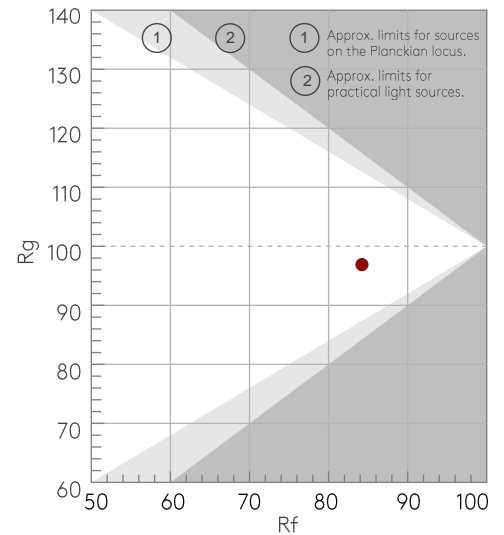
COLOR PARAMETERS

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
3075 K	81.8	2.5	84.2	96.9	81.5	0.435	0.408	0.247	0.348	0.0019

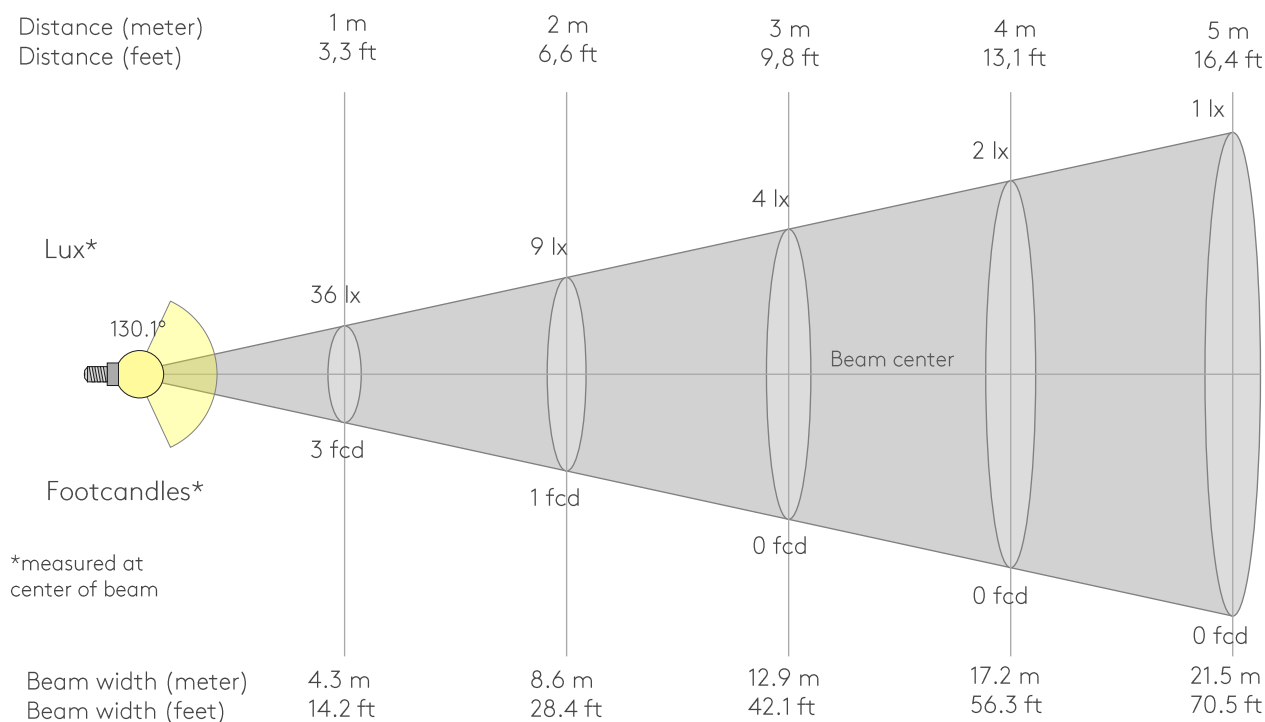
Rf 84.2
Fidelity index Rf

Rg 96.9
Gammut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-12%	-2%
2	81	-9%	7%
3	77	-3%	12%
4	86	3%	9%
5	91	4%	5%
6	91	5%	-2%
7	85	-1%	-9%
8	93	-3%	-3%
9	89	-7%	1%
10	83	-6%	7%
11	80	-2%	13%
12	87	7%	3%
13	88	6%	-5%
14	81	6%	-14%
15	79	-1%	-14%
16	78	-7%	-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
36lx	9lx	4lx	2lx	1lx	1lx	1lx	1lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx
3.3fcd	0.8fcd	0.4fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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°
35.7	35.5	34.7	33.1	30.8	27.7	23.7	19.1	14.7	10.4	5.3	3.8	3.4	2.9	2.5	2.0	1.6	1.2	0.8	0.4
100%	100%	97%	93%	86%	77%	66%	53%	41%	29%	15%	11%	9%	8%	7%	6%	4%	3%	2%	1%

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°
35.7	35.4	34.4	32.8	30.4	27.3	23.2	18.7	14.4	10.1	5.3	3.8	2.7	2.2	1.5	1.2	0.8	0.6	0.4	0.4
100%	99%	96%	92%	85%	76%	65%	52%	40%	28%	15%	11%	7%	6%	4%	3%	2%	2%	1%	1%

Intensities in 180° c-plane

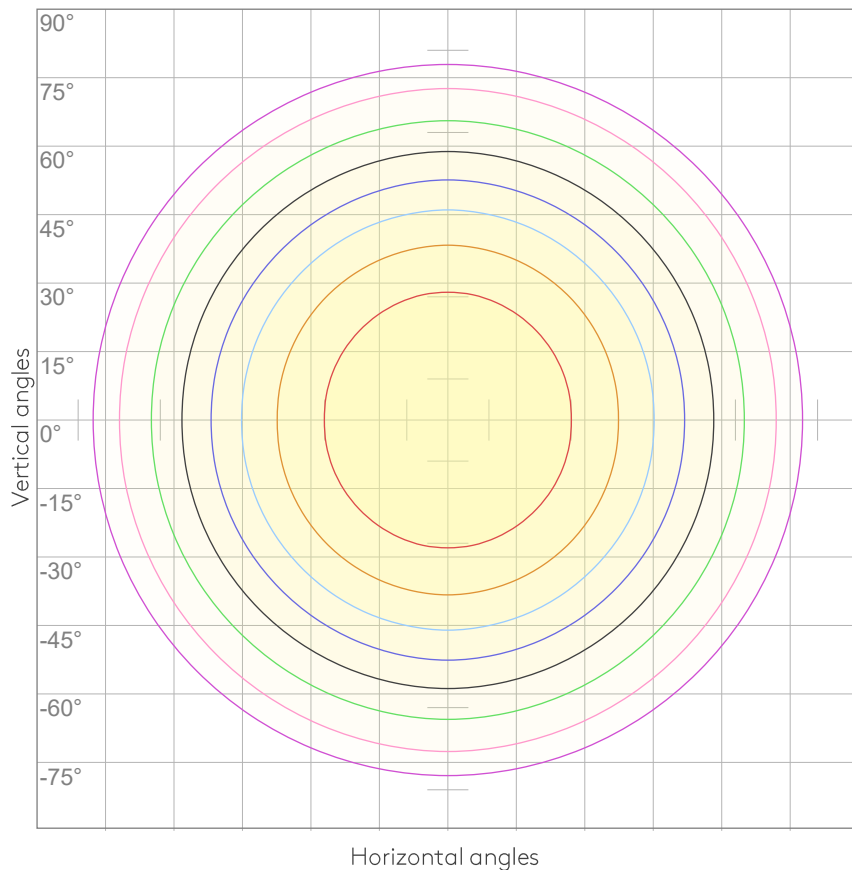
0°	9°	18°	27°	36°	45°	54°	63°	72°	81°	90°	99°	108°	117°	126°	135°	144°	153°	162°	171°
35.7	35.5	34.7	33.1	30.8	27.7	23.7	19.1	14.7	10.4	5.3	3.8	3.4	2.9	2.5	2.0	1.6	1.2	0.8	0.4
100%	100%	97%	93%	86%	77%	66%	53%	41%	29%	15%	11%	9%	8%	7%	6%	4%	3%	2%	1%

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°
35.7	35.4	34.4	32.8	30.4	27.3	23.2	18.7	14.4	10.1	5.3	3.8	2.7	2.2	1.5	1.2	0.8	0.6	0.4	0.4
100%	99%	96%	92%	85%	76%	65%	52%	40%	28%	15%	11%	7%	6%	4%	3%	2%	2%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
130.1°	206°	304.9°	61.5%	40.1%

ISO CANDELA DIAGRAM



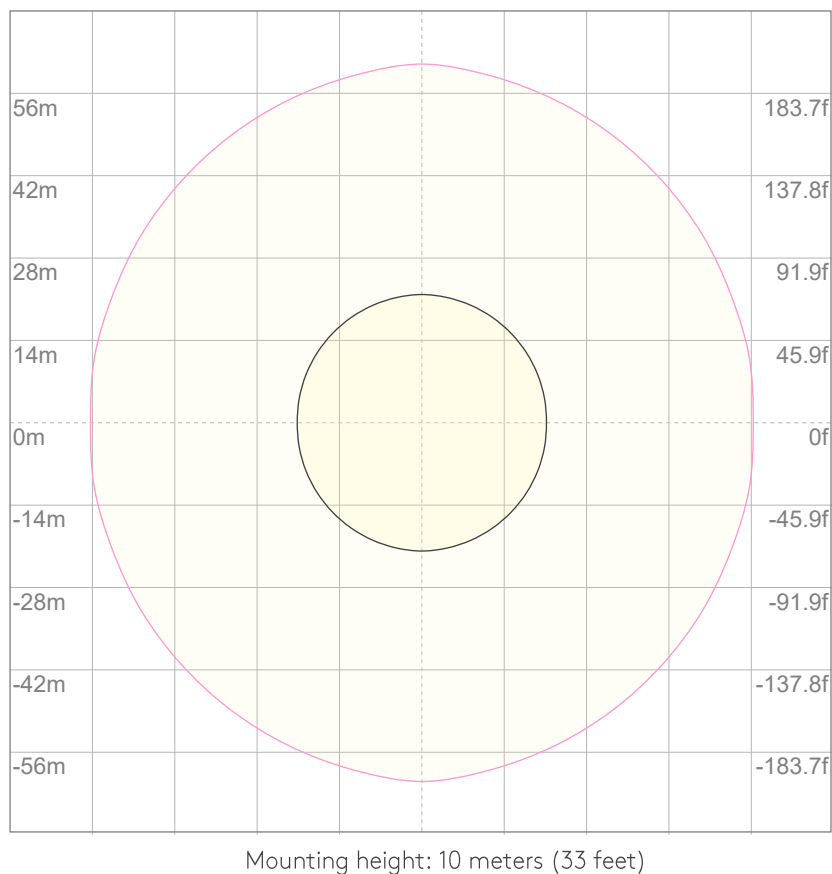
10%	4 cd
20%	7 cd
30%	11 cd
40%	14 cd
50%	18 cd
60%	21 cd
70%	25 cd
80%	29 cd
90%	32 cd

Conditions:

Number of c-planes: 8

Candela at center: 36 cd

ISO LUX DIAGRAM



3%	10.7m lx
5%	17.9m lx
10%	35.7m lx
30%	0.107 lx
50%	{LUX_10M50} lx

Conditions:

Number of c-planes: 8

Lux at center: 0.357 lx

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

UGR

GLARE EVALUATION ACCORDING TO UGR

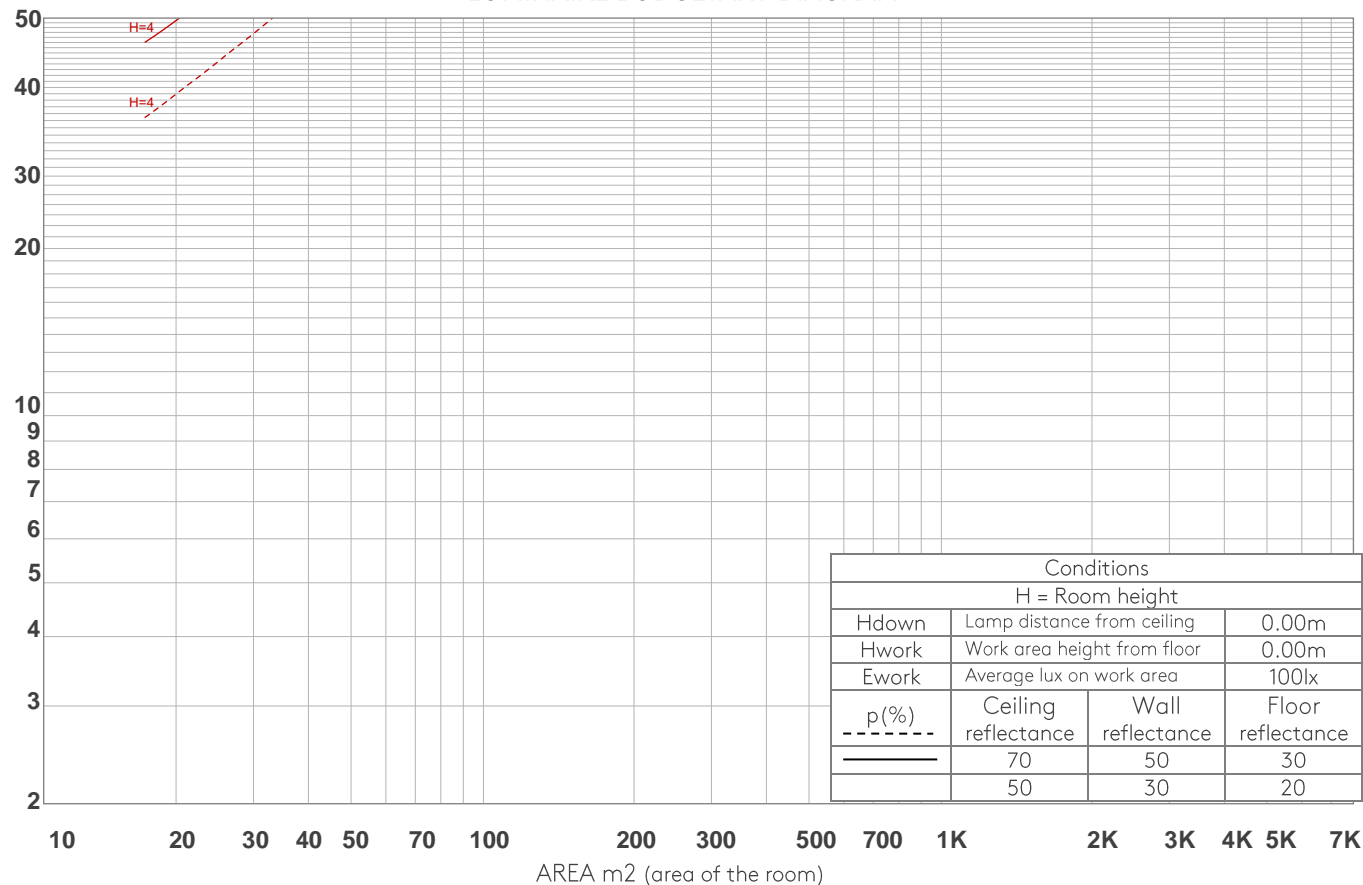
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	11.3	12.5	11.7	13.0	13.4	11.2	12.4	11.6	12.9	13.3
	3H	13.3	14.5	13.9	15.0	15.4	13.2	14.5	13.8	14.9	15.4
	4H	14.4	15.6	15.0	16.1	16.5	14.3	15.5	14.9	16.0	16.4
	6H	15.6	16.7	16.1	17.2	17.7	15.5	16.5	16.0	17.0	17.6
	8H	16.2	17.2	16.7	17.7	18.3	16.1	17.1	16.6	17.6	18.2
	12H	16.8	17.8	17.3	18.3	18.9	16.7	17.7	17.2	18.2	18.8
4H	2H	12.0	13.2	12.6	13.6	14.1	12.0	13.1	12.5	13.6	14.1
	3H	14.4	15.4	14.9	15.9	16.5	14.3	15.3	14.8	15.8	16.5
	4H	15.6	16.6	16.2	17.1	17.8	15.5	16.5	16.1	17.0	17.7
	6H	16.9	17.8	17.6	18.3	18.9	16.8	17.7	17.4	18.2	18.8
	8H	17.6	18.4	18.2	18.9	19.5	17.5	18.3	18.1	18.8	19.4
	12H	18.3	18.9	18.9	19.6	20.2	18.2	18.8	18.8	19.4	20.1
8H	4H	16.1	16.9	16.7	17.4	18.0	16.0	16.8	16.7	17.4	18.0
	6H	17.7	18.3	18.3	19.0	19.7	17.6	18.2	18.2	18.9	19.6
	8H	18.6	19.1	19.2	19.8	20.6	18.4	19.0	19.1	19.7	20.5
	12H	19.4	19.9	20.1	20.6	21.3	19.3	19.8	20.0	20.5	21.2
12H	4H	16.2	16.9	16.8	17.5	18.1	16.1	16.8	16.8	17.4	18.1
	6H	17.9	18.5	18.6	19.1	19.9	17.8	18.4	18.5	19.1	19.9
	8H	18.8	19.3	19.5	20.0	20.7	18.7	19.2	19.4	19.9	20.6
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.1					0.1 / -0.1				
S = 1.5H		0.1 / -0.1					0.1 / -0.1				
S = 2.0H		0.2 / -0.2					0.2 / -0.2				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 146 lm total luminous flux											

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89
1	104	98	93	88	100	95	90	86	88	85	81	83	80	77	77	75	73	70
2	93	84	76	70	90	81	74	68	76	70	65	71	66	62	66	62	59	56
3	85	73	64	57	81	71	62	56	66	59	53	62	56	51	58	53	49	46
4	77	64	55	48	74	62	53	47	58	51	45	55	48	43	51	46	41	39
5	71	57	48	40	68	55	46	40	52	44	38	49	42	37	46	40	35	33
6	65	51	42	35	62	50	41	34	47	39	33	44	37	32	41	35	31	29
7	60	46	37	31	58	45	36	30	42	35	29	40	33	28	38	32	27	25
8	56	42	33	27	54	41	32	27	38	31	26	36	30	25	34	29	24	22
9	52	38	30	24	50	37	29	24	35	28	23	33	27	22	32	26	22	20
10	49	35	27	22	47	34	27	21	33	26	21	31	25	20	29	24	20	18

LAMPS (number of lamps)

LUMINAIRE BUDGETARY DIAGRAM



ZONAL LUMEN SUMMARY

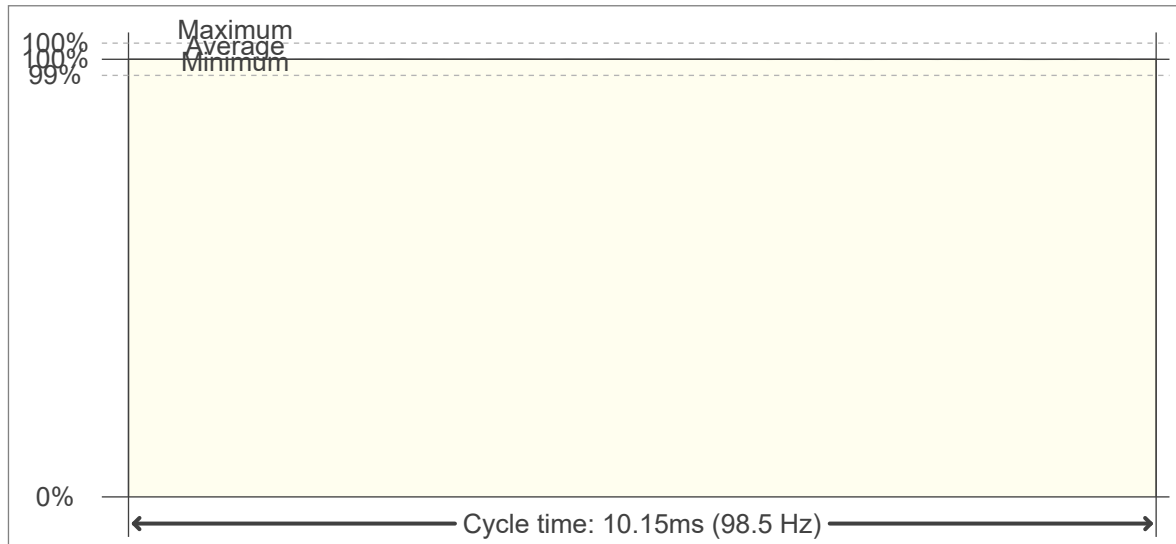
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
3.40 lm	9.88 lm	15.4 lm	19.4 lm	21.2 lm	20.5 lm	17.7 lm	13.9 lm	8.72 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
4.70 lm	3.58 lm	2.84 lm	2.05 lm	1.36 lm	0.791 lm	0.396 lm	0.158 lm	0.036 lm

FLICKER

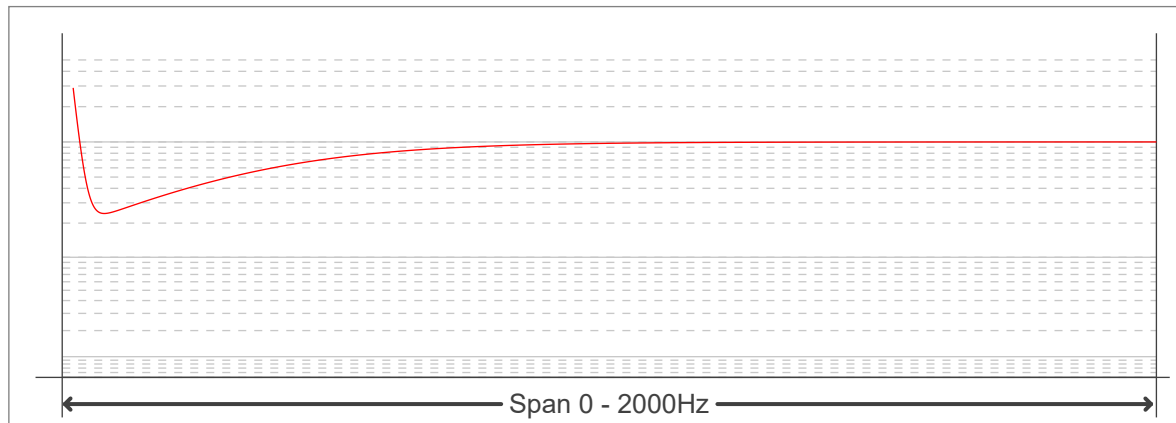
FLICKER CURVE (COMPLETE SAMPLED)



FLICKER FRAME (FRAME OF ONE FLICKER)



FLICKER FFT (FREQUENCY SCOPE OF FLICKER)



FLICKER RESULTS:

Flicker frequency:	98.52 Hz
Flicker index:	0
Flicker percentage:	0.04 %
SVM: (Visual flicker)	0

FLICKER CONDITIONS:

Sample rate:	20000 samples/second
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