

Light efficiency:

81 Lumen/Watt

Light quality:

CRI: 94.6

Color temperature:

4128 K

Output: 1009 lm

Peak: 1530 cd

Power: 12.4 W

PF: 1.0



Tracking number: [n/a](#)

Product name:

NANOFLEX90677.6402550WHB

Item number:

Date and time:

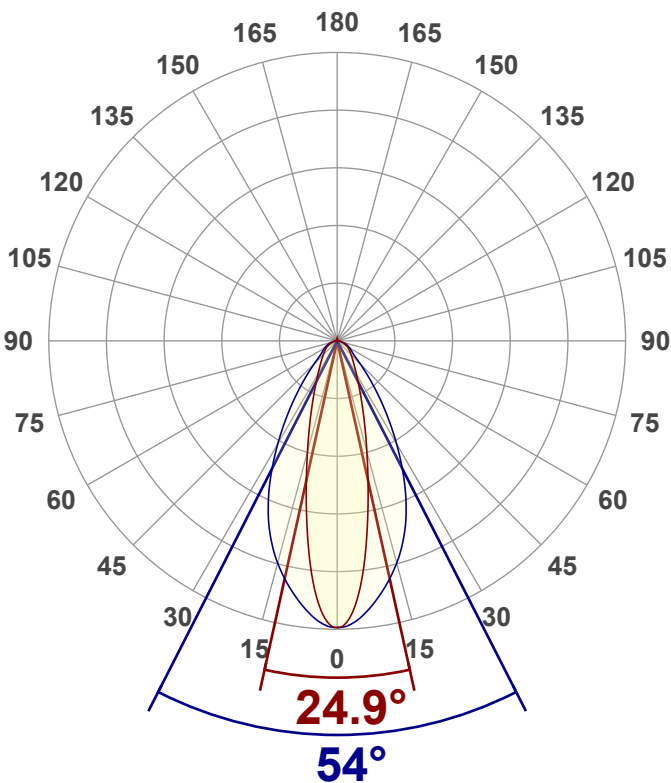
2025/12/19 10:42:07

Operator:

MW

Description:

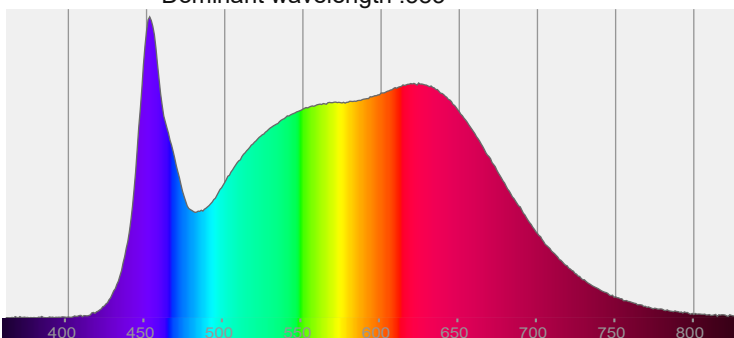
**24Vdc,25w/m, 4000K,Beam
angle:25*50degree, length:0.5m**



CIE 1931
x: 0.374
y: 0.368

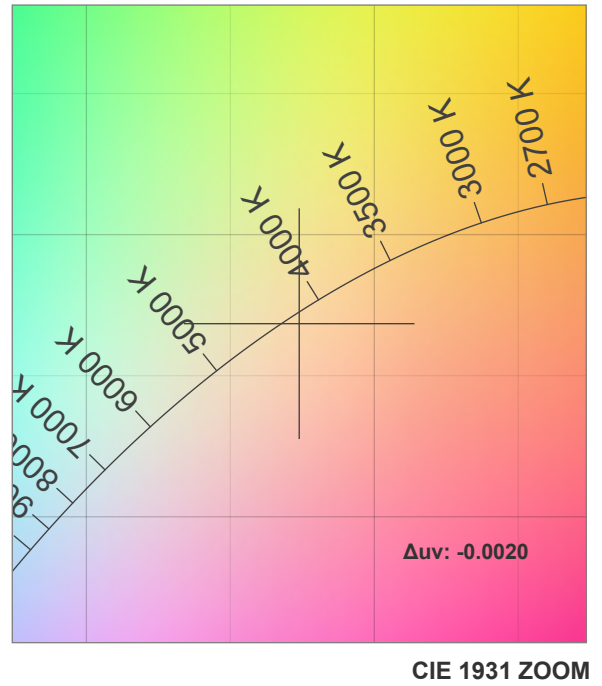
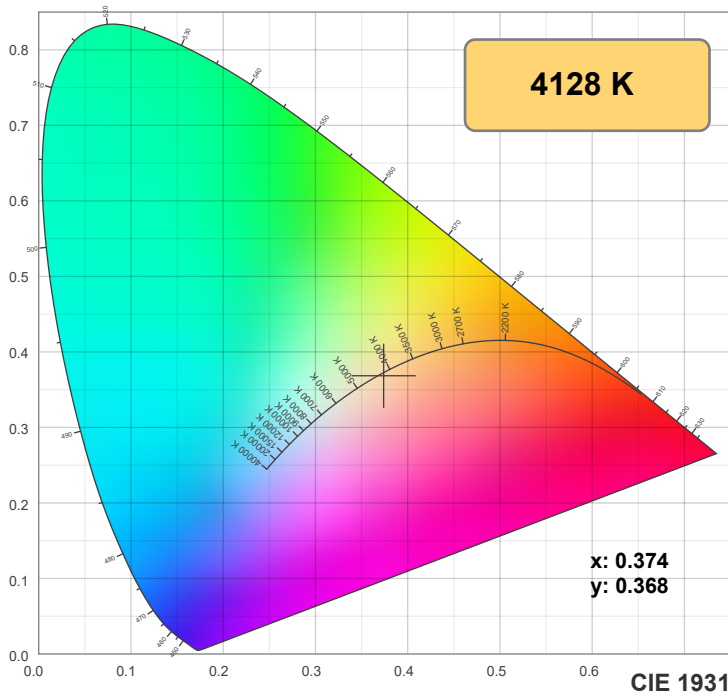
Spectra: Peak wavelength :452

Dominant wavelength :583

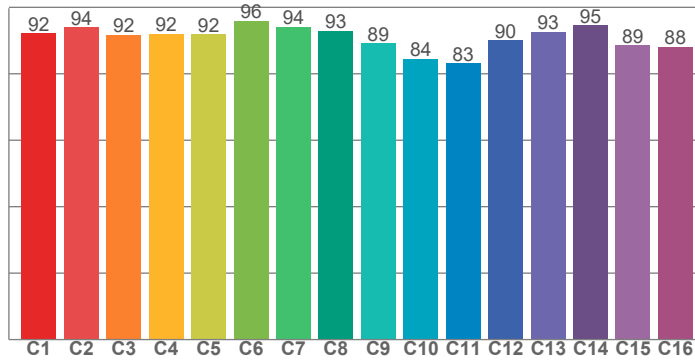


Power

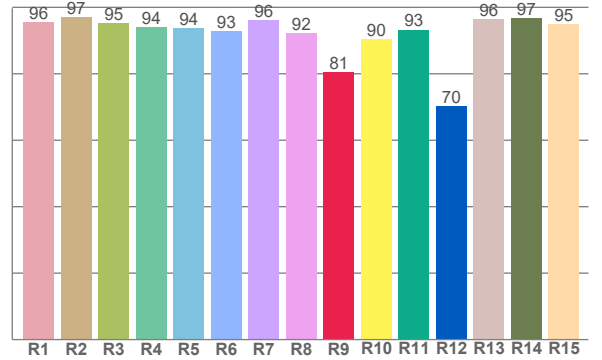
Voltage: 24.0 V
Current: 0.517 A
Frequency: 0 Hz



TM-30: 90.6



CRI: 94.6 (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
95.6	97.0	95.1	94.1	93.8	92.7	96.2	92.1	80.6	90.4	93.3	70.3	96.4	96.8	95.0

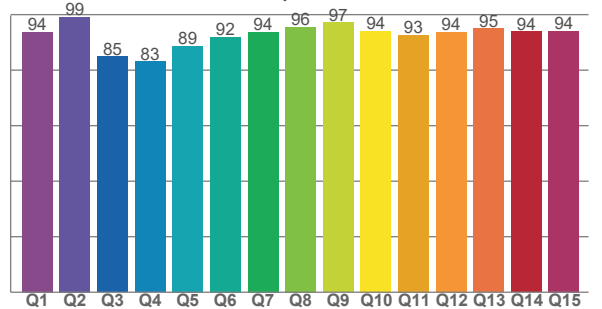
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
92.2	94.0	91.7	92.1	91.9	95.9	94.2	92.9	89.2	84.5	83.2	90.0	92.7	94.5	88.5	88.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
93.7	99.2	84.9	83.2	88.7	91.9	93.8	95.5	97.1	94.0	92.7	93.7	94.9	93.9	94.2

CQS: 91.7



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
4128 K	94.6	80.6	90.6	99.3	91.7	0.374	0.368	0.224	0.331	-0.0020

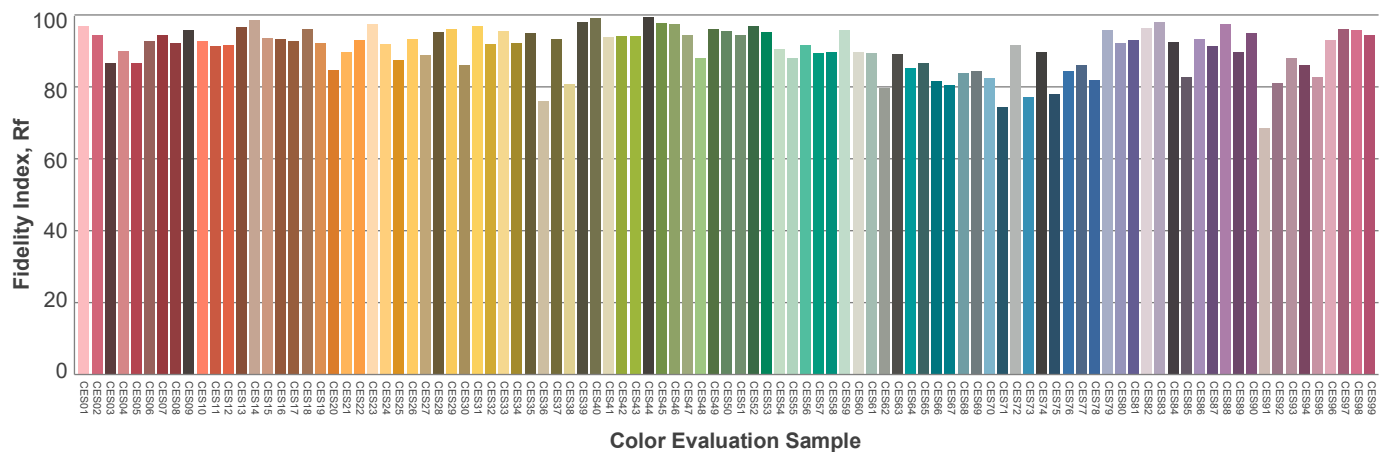
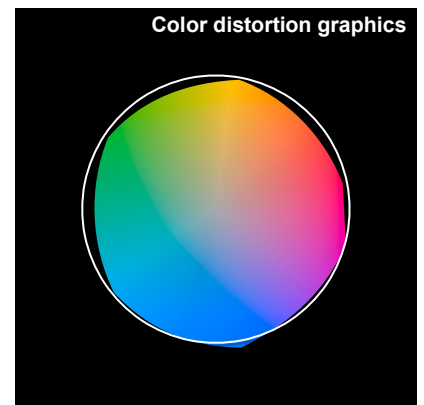
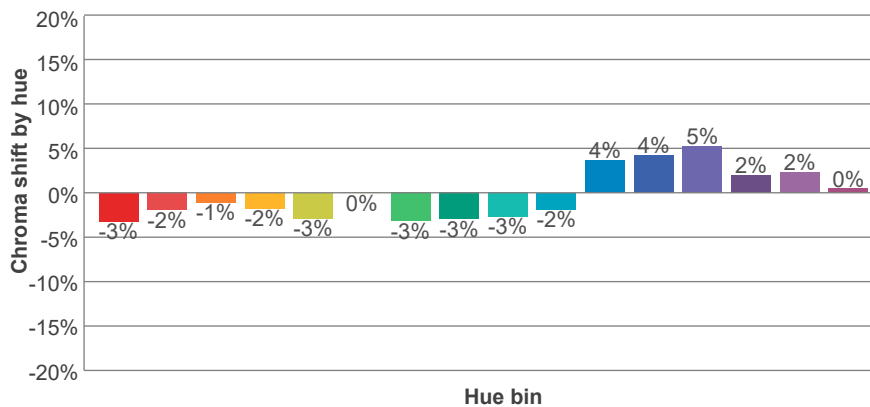
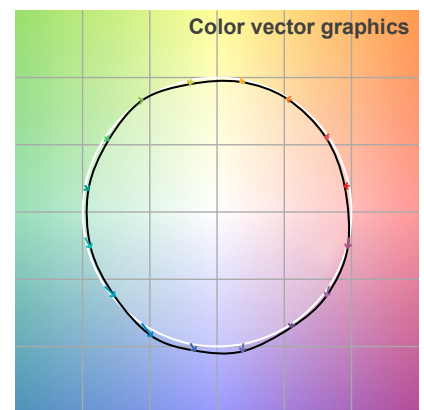
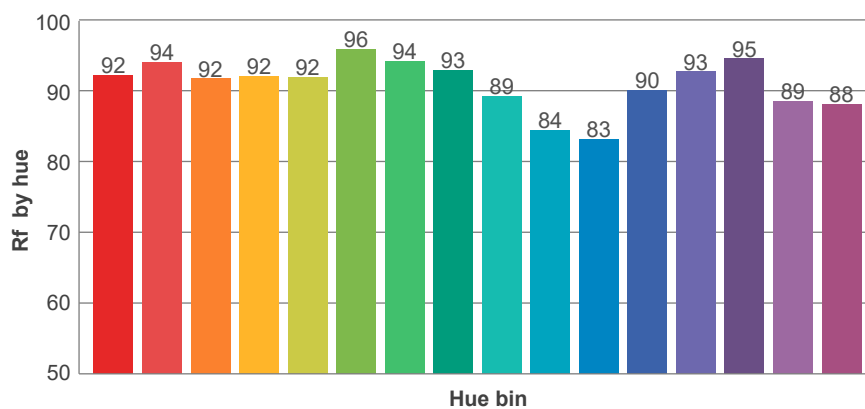
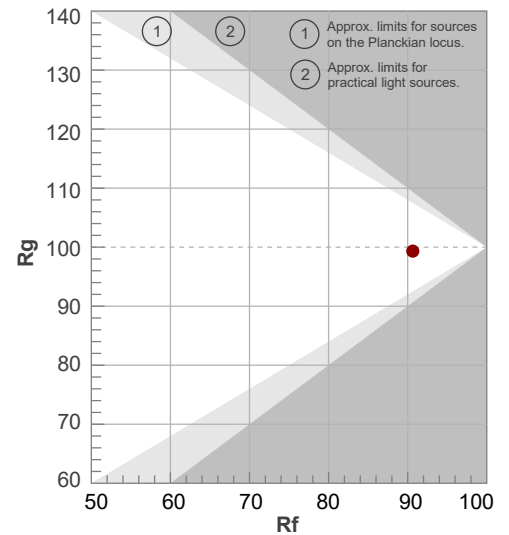
Rf 90.6

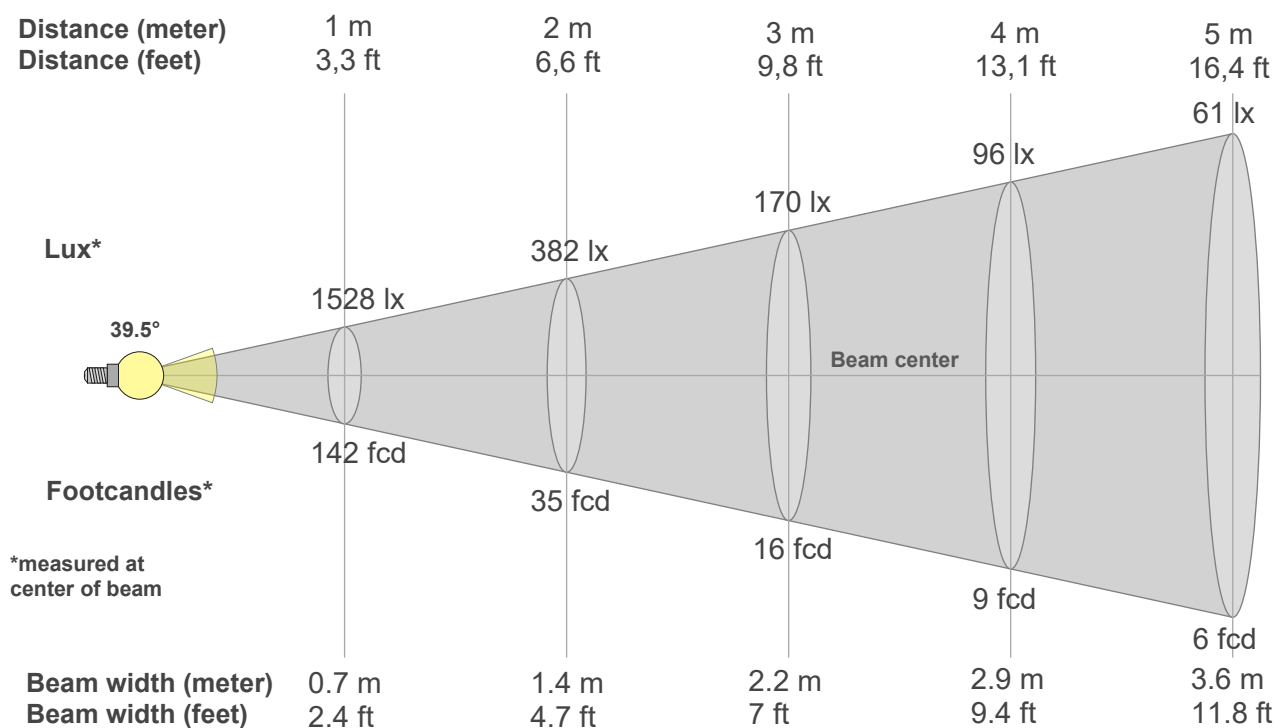
Fidelity index R_f

Rg 99.3

Gamut index Rg

		Shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	92	-3%	0%
2	94	-2%	2%
3	92	-1%	4%
4	92	-2%	2%
5	92	-3%	1%
6	96	0%	0%
7	94	-3%	0%
8	93	-3%	3%
9	89	-3%	8%
10	84	-2%	10%
11	83	4%	11%
12	90	4%	4%
13	93	5%	-2%
14	95	2%	-1%
15	89	2%	-7%
16	88	0%	-7%





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
1528lx	382lx	170lx	96lx	61lx	42lx	31lx	24lx	19lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
142fcd	35.5fcd	15.8fcd	8.9fcd	5.7fcd	3.9fcd	2.9fcd	2.2fcd	1.8fcd	1.4fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.4fcd

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°
1528	1497	1406	1269	1105	941	793	667	563	477	406	348	301	262	231	205	183	166	151	138
100%	98%	92%	83%	72%	62%	52%	44%	37%	31%	27%	23%	20%	17%	15%	13%	12%	11%	10%	9%

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°
1528	1520	1494	1456	1411	1362	1310	1255	1196	1130	1059	981	898	809	720	632	549	471	399	336
100%	99%	98%	95%	92%	89%	86%	82%	78%	74%	69%	64%	59%	53%	47%	41%	36%	31%	26%	22%

Intensities in 180° c-plane

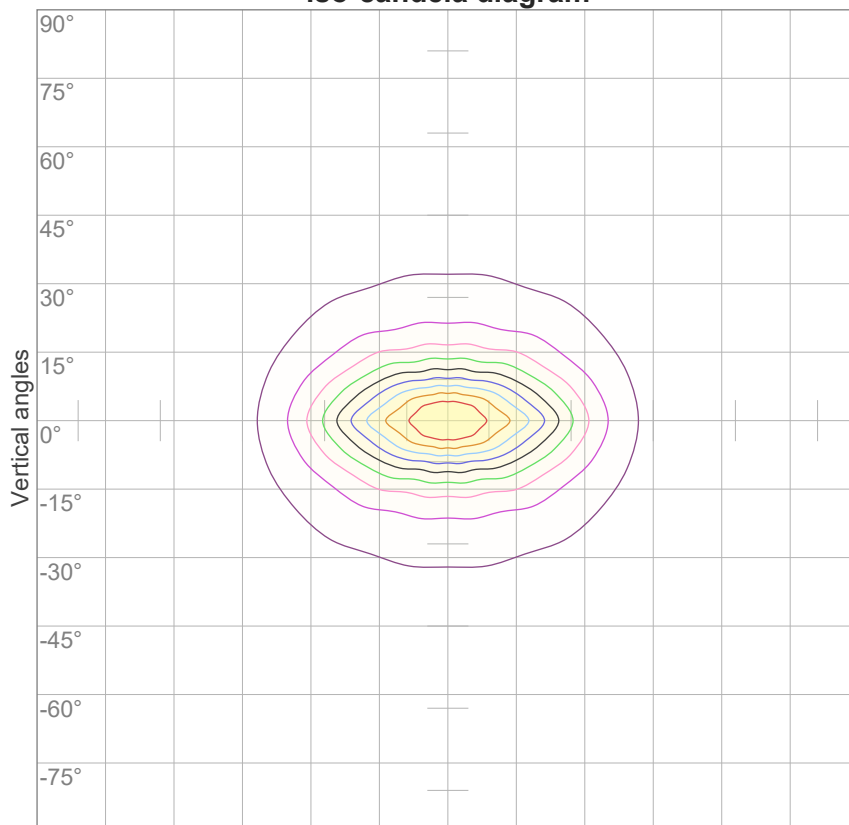
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1528	1497	1406	1269	1105	941	793	667	563	477	406	348	301	262	231	205	183	166	151	138
100%	98%	92%	83%	72%	62%	52%	44%	37%	31%	27%	23%	20%	17%	15%	13%	12%	11%	10%	9%

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°
1528	1520	1494	1456	1411	1362	1310	1255	1196	1130	1059	981	898	809	720	632	549	471	399	336
100%	99%	98%	95%	92%	89%	86%	82%	78%	74%	69%	64%	59%	53%	47%	41%	36%	31%	26%	22%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39.5°	82.1°	142.5°	89.9%	77.9%

iso-candela diagram



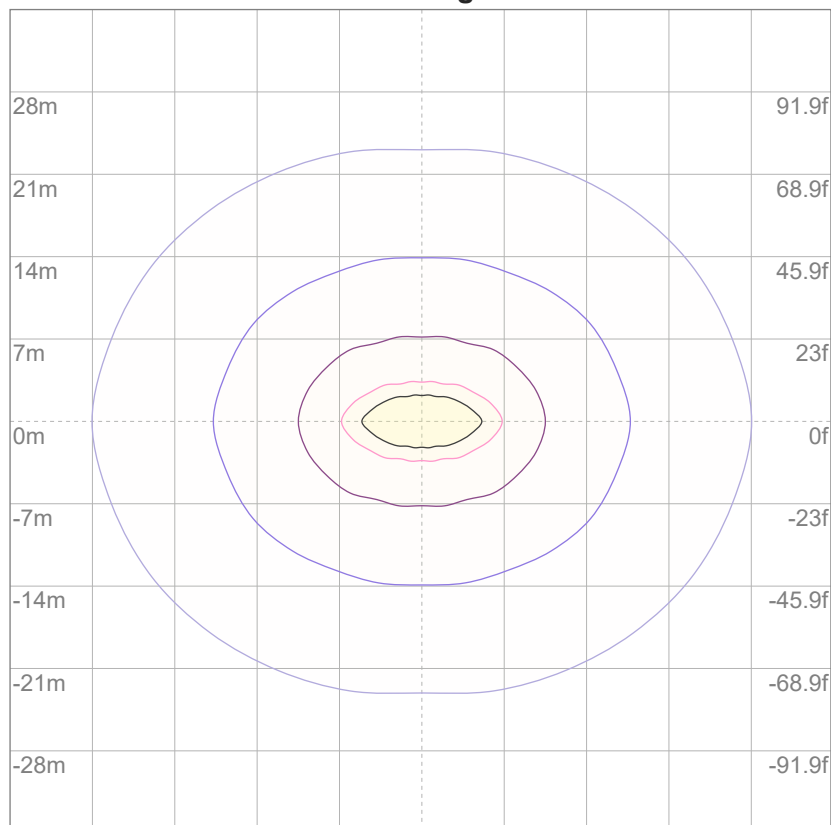
10%	153 cd
20%	306 cd
30%	459 cd
40%	611 cd
50%	764 cd
60%	917 cd
70%	1070 cd
80%	1223 cd
90%	1376 cd

Conditions:

Number of c-planes: 12

Candela at center: 1528 cd

iso-lux diagram



3%	0.459 lx
5%	0.764 lx
10%	1.53 lx
30%	4.59 lx
50%	7.64 lx

Conditions:

Number of c-planes: 12

Lux at center: 15.3 lx

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

Glare evaluation according to UGR

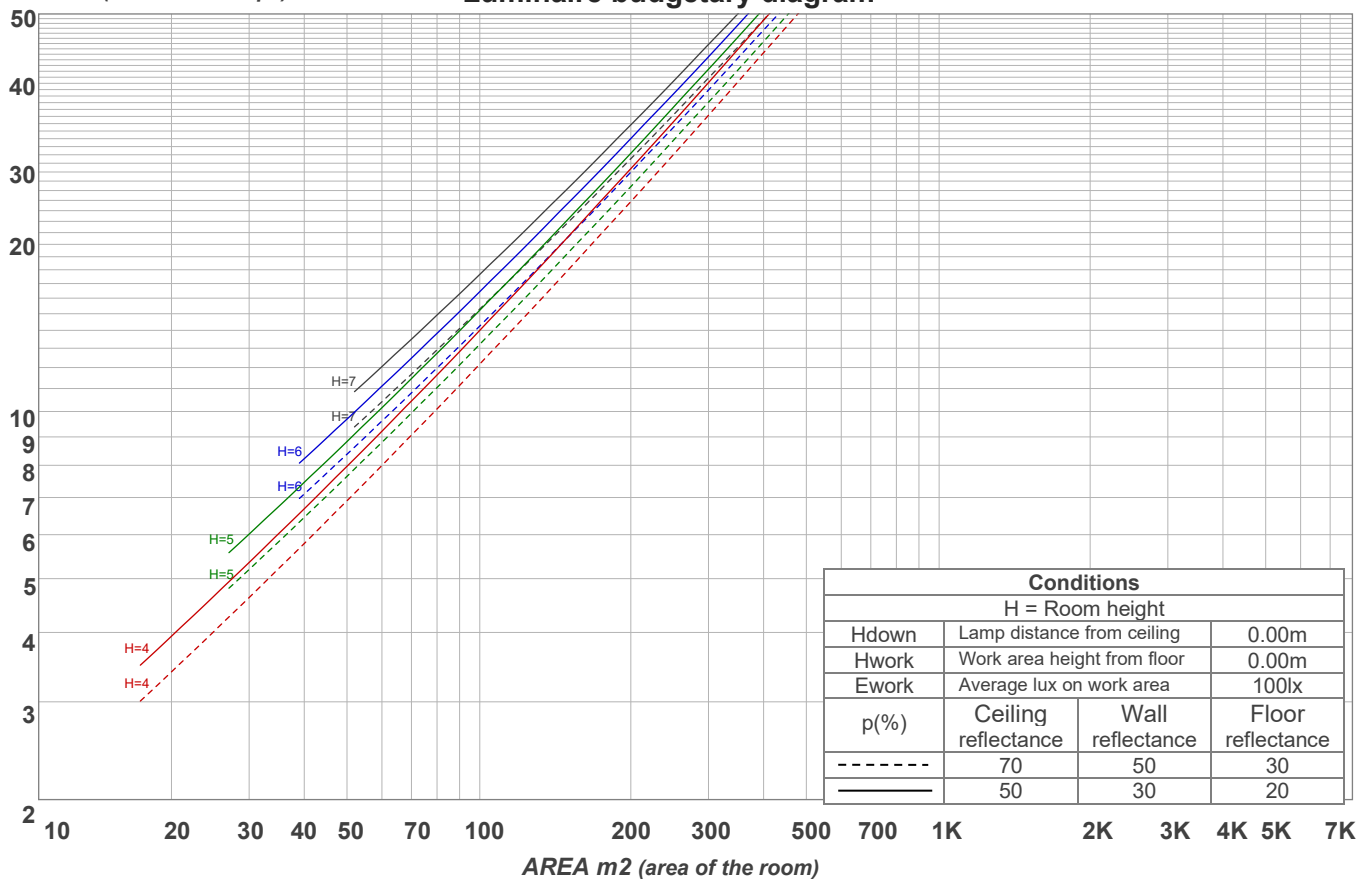
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	15.3	16.2	15.5	16.4	16.6	18.5	19.3	18.7	19.6	19.8
	3H	16.1	17.0	16.5	17.3	17.5	19.4	20.4	19.8	20.6	20.8
	4H	16.4	17.3	16.8	17.5	17.8	19.9	20.8	20.3	21.0	21.3
	6H	16.6	17.3	16.9	17.6	18.0	20.2	21.0	20.6	21.3	21.7
	8H	16.6	17.3	16.9	17.6	18.0	20.3	21.1	20.6	21.4	21.8
	12H	16.6	17.3	16.9	17.6	18.1	20.3	21.0	20.7	21.4	21.8
4H	2H	15.9	16.8	16.3	17.0	17.3	18.5	19.4	18.9	19.7	19.9
	3H	17.0	17.7	17.3	18.0	18.5	19.8	20.5	20.1	20.9	21.3
	4H	17.2	17.9	17.7	18.3	18.8	20.2	20.9	20.7	21.3	21.9
	6H	17.4	18.1	17.9	18.4	18.8	20.6	21.3	21.1	21.6	22.0
	8H	17.4	18.1	18.0	18.4	18.8	20.7	21.3	21.2	21.7	22.1
	12H	17.4	17.9	17.9	18.4	18.8	20.8	21.3	21.3	21.7	22.2
8H	4H	17.4	18.0	17.9	18.4	18.8	20.2	20.9	20.8	21.2	21.6
	6H	17.7	18.1	18.2	18.6	19.2	20.7	21.1	21.2	21.6	22.2
	8H	17.8	18.2	18.3	18.7	19.4	20.9	21.2	21.4	21.8	22.4
	12H	17.8	18.2	18.4	18.7	19.3	20.9	21.3	21.5	21.8	22.4
12H	4H	17.4	17.9	17.9	18.3	18.8	20.2	20.7	20.7	21.1	21.6
	6H	17.8	18.1	18.3	18.7	19.3	20.7	21.1	21.2	21.6	22.3
	8H	17.8	18.2	18.4	18.7	19.3	20.8	21.2	21.4	21.7	22.3
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.3 / -0.4					1.1 / -0.6				
S = 1.5H		0.5 / -0.8					2.4 / -1.0				
S = 2.0H		0.8 / -1.3					3.6 / -1.6				
CIE 117-1995. Corrected glare indices referring to 1009 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	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	96	94	94	92	91	89
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	80	77	74	72
4	92	83	76	71	90	82	75	71	79	74	70	77	72	69	75	71	68	66
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61
6	82	72	65	60	80	71	64	59	69	63	59	67	62	58	66	61	58	56
7	77	67	60	55	76	66	60	55	65	59	55	63	58	54	62	57	54	52
8	74	63	56	51	72	62	56	51	61	55	51	60	55	51	59	54	50	49
9	70	59	53	48	69	59	52	48	58	52	48	57	51	48	56	51	47	46
10	67	56	50	45	66	56	49	45	55	49	45	54	49	45	53	48	45	43

LAMPS (number of lamps)

Luminaire budgetary diagram



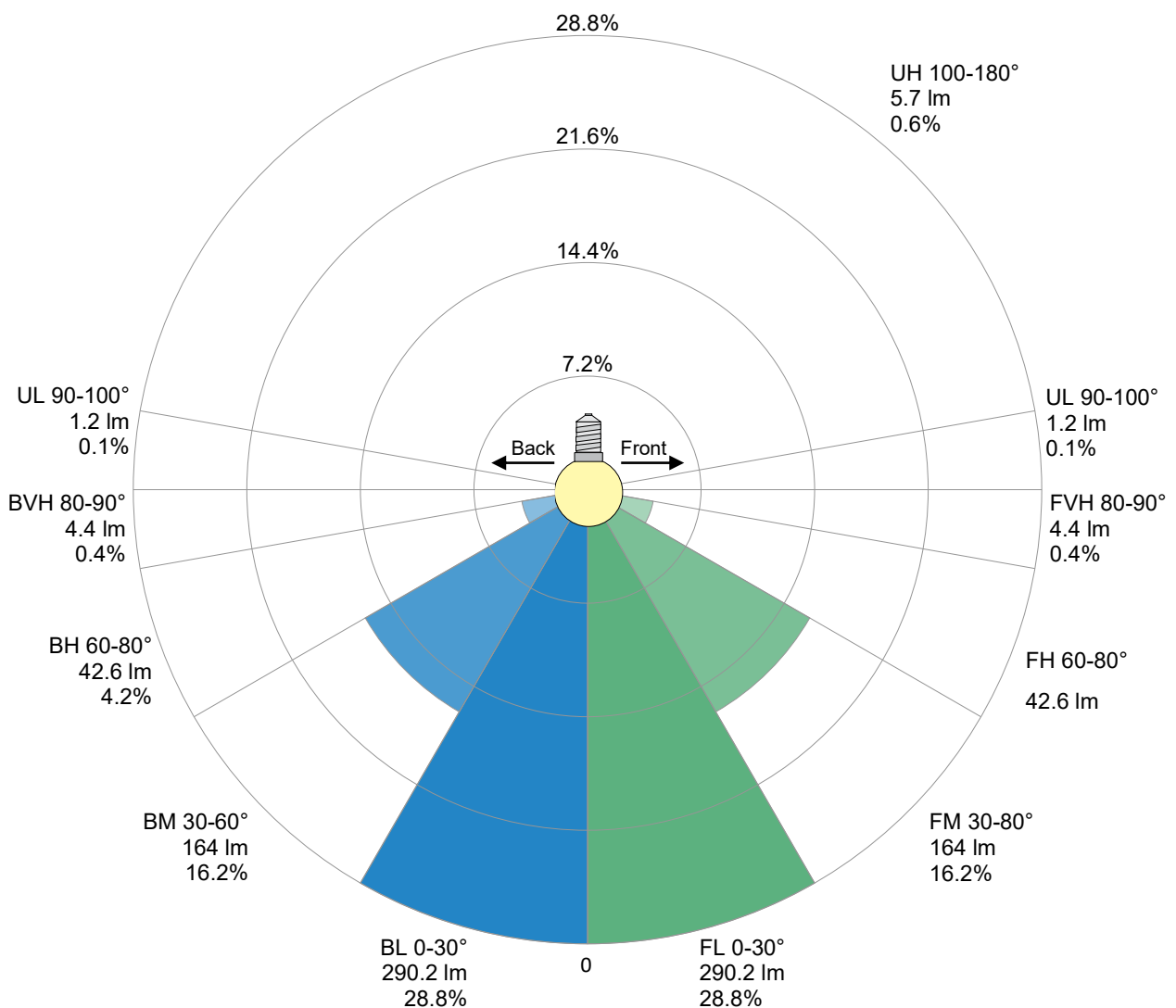
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
114 lm	247 lm	217 lm	148 lm	106 lm	75.3 lm	54.0 lm	31.1 lm	9.96 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1.17 lm	0.664 lm	0.638 lm	0.785 lm	0.858 lm	0.947 lm	0.915 lm	0.700 lm	0.312 lm

LCS table

BUG rating:	B1 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	290.2	28.8%
Medium(30-60):	164	16.2%
High(60-80):	42.6	4.2%
Very high(80-90):	4.4	0.4%
Back light		
Low(0-30):	290.2	28.8%
Medium(30-60):	164	16.2%
High(60-80):	42.6	4.2%
Very high(80-90):	4.4	0.4%
Uplight		
Low(90-100):	1.2	0.1%
High(100-180):	5.7	0.6%

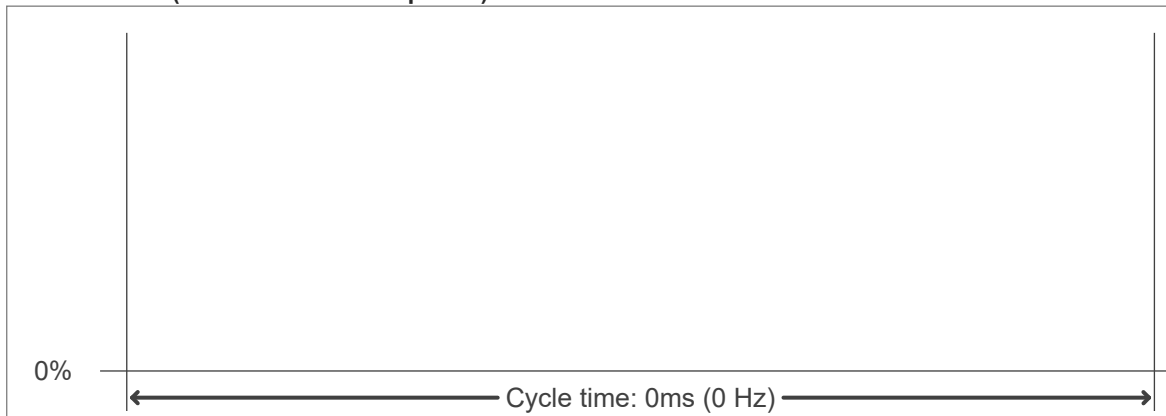
LCS graph



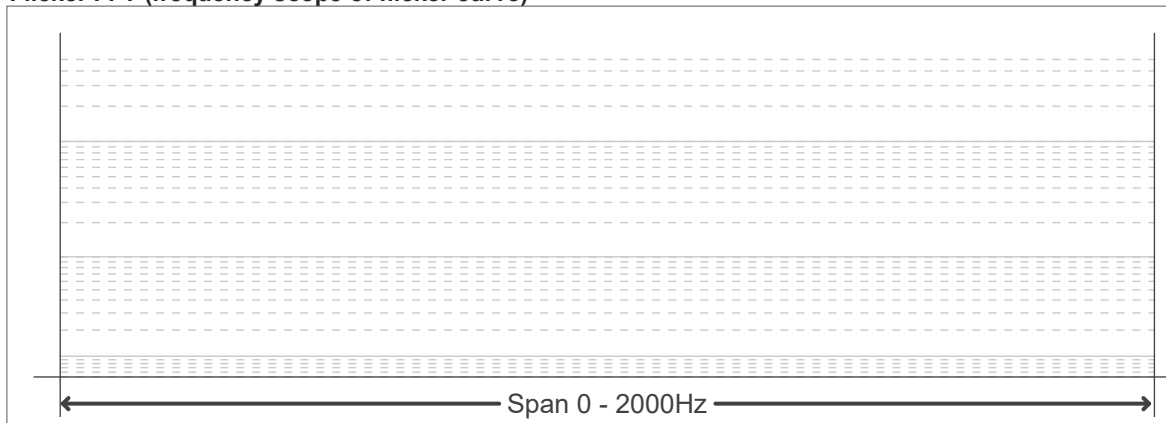
Flicker curve (complete sampled flicker signal)



Flicker frame (frame of one flicker period)



Flicker FFT (frequency scope of flicker curve)



Flicker results:

Flicker frequency:		n/a Hz	
Flicker index:	n/a	JA8/10 40Hz	n/a %
Flicker percentage:	n/a %	JA8/10 90Hz	n/a %
SVM: (Visual flicker)	n/a	JA8/10 200Hz	n/a %
PstLM	n/a	JA8/10 400Hz	n/a %
Mp	n/a	JA8/10 1000Hz	n/a %

Flicker conditions:

Sample rate:	n/a samples/second
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