

Light efficiency:

46 Lumen/Watt

Light quality:

CRI: 51.5

Color temperature:

6232 K

Output: 1182 lm

Peak: 3069 cd

Power: 26.0 W

PF: 1.0



Tracking number: [n/a](#)

Product name:

**NANOFLEX677.6RGB30ADD25WHB  
,all on**

Item number:

Date and time:

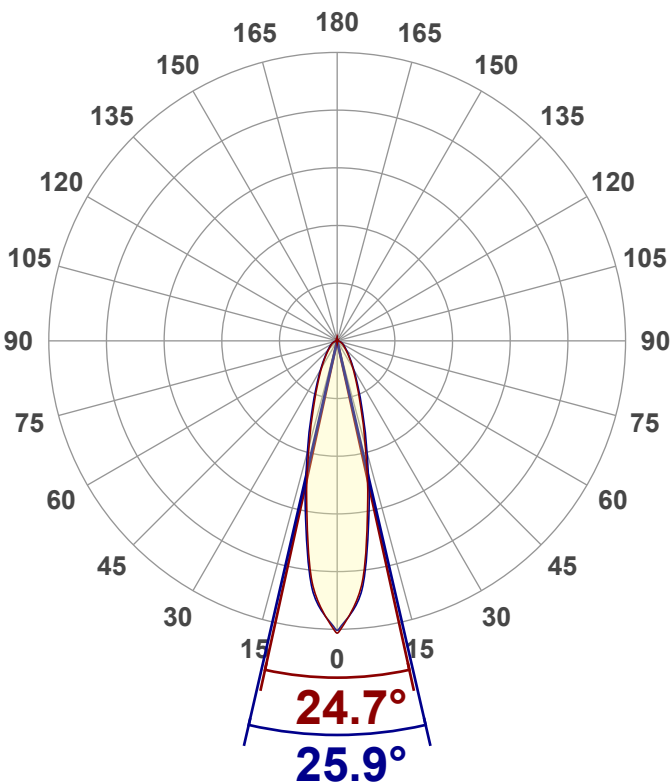
**2025/8/21 13:45:27**

Operator:

**MW**

Description:

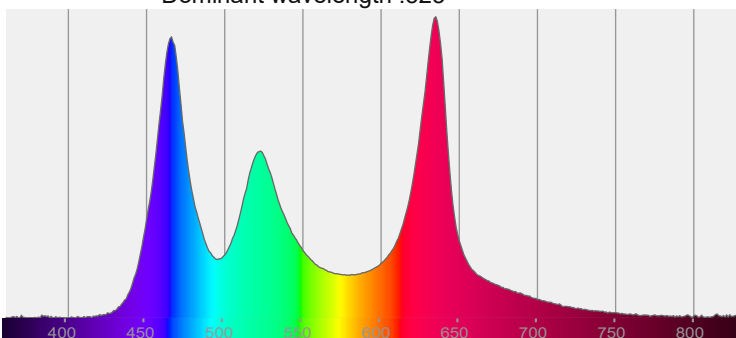
**24Vdc,25w/m, RGBW30K,Beam  
angle:25degree, length:1m**



CIE 1931  
x: 0.320  
y: 0.313

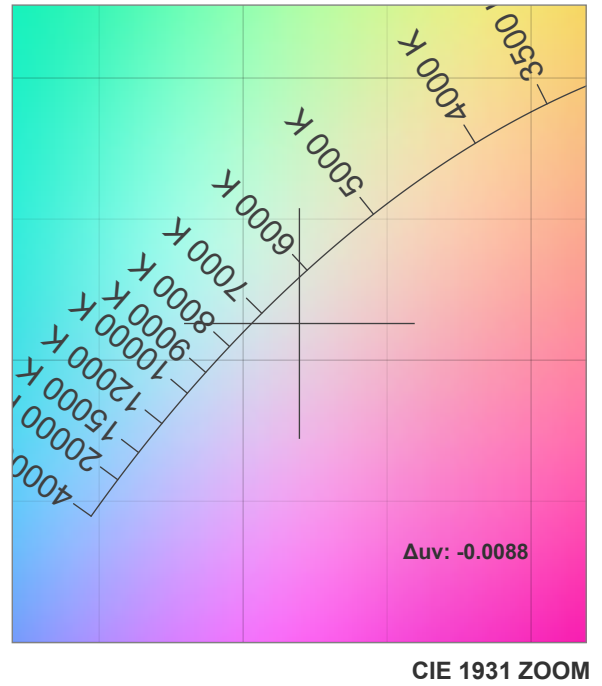
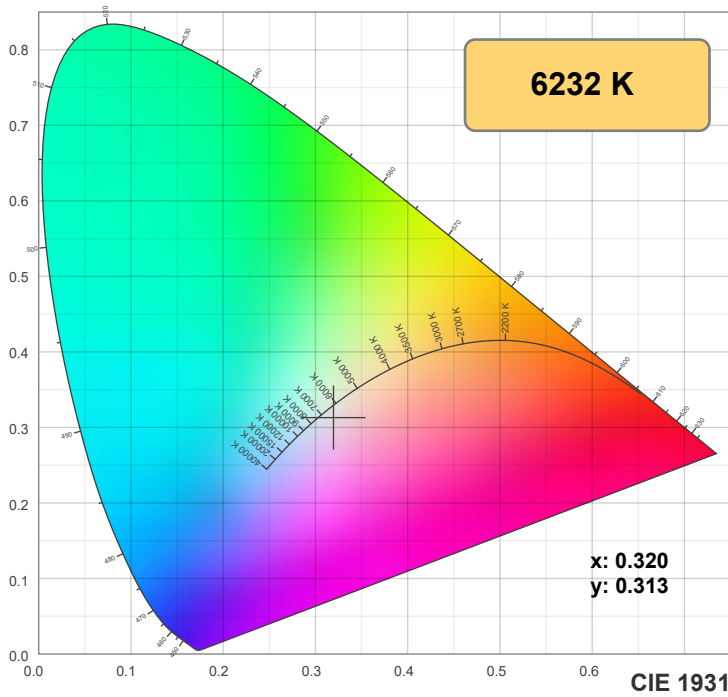
**Spectra:** Peak wavelength :635

Dominant wavelength :523

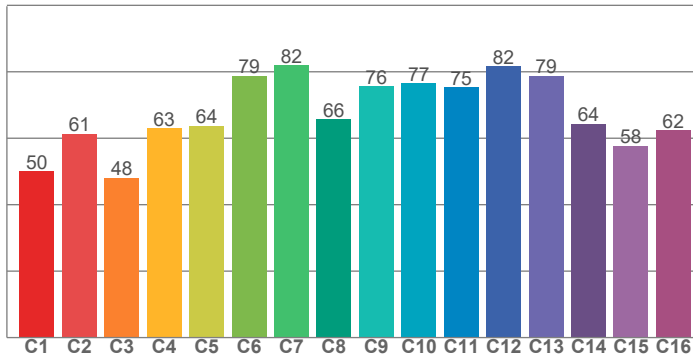


**Power**

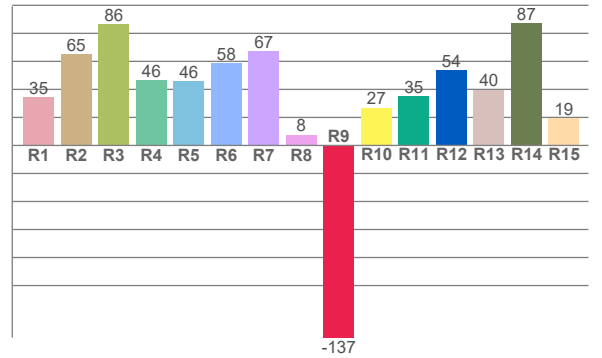
Voltage: 24.0 V  
Current: 1.08 A  
Frequency: 0 Hz



TM-30: 67.1



CRI: 51.5 (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
34.5	64.9	86.5	46.4	46.0	58.5	67.3	7.6	-137.1	27.0	35.4	53.8	39.9	87.5	19.3

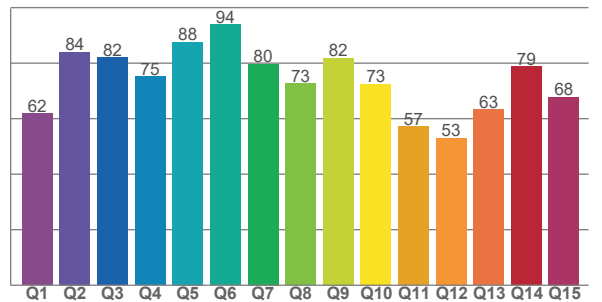
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
50.0	61.3	48.1	63.0	63.7	78.8	82.0	65.7	75.6	76.6	75.3	81.6	78.8	64.3	57.8	62.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
61.8	83.9	82.0	75.1	87.5	94.0	79.7	72.7	81.9	72.5	57.3	53.0	63.2	78.7	67.8

CQS: 71.7



## 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
6232 K	51.5	-137.1	67.1	108.4	71.7	0.320	0.313	0.209	0.307	-0.0088

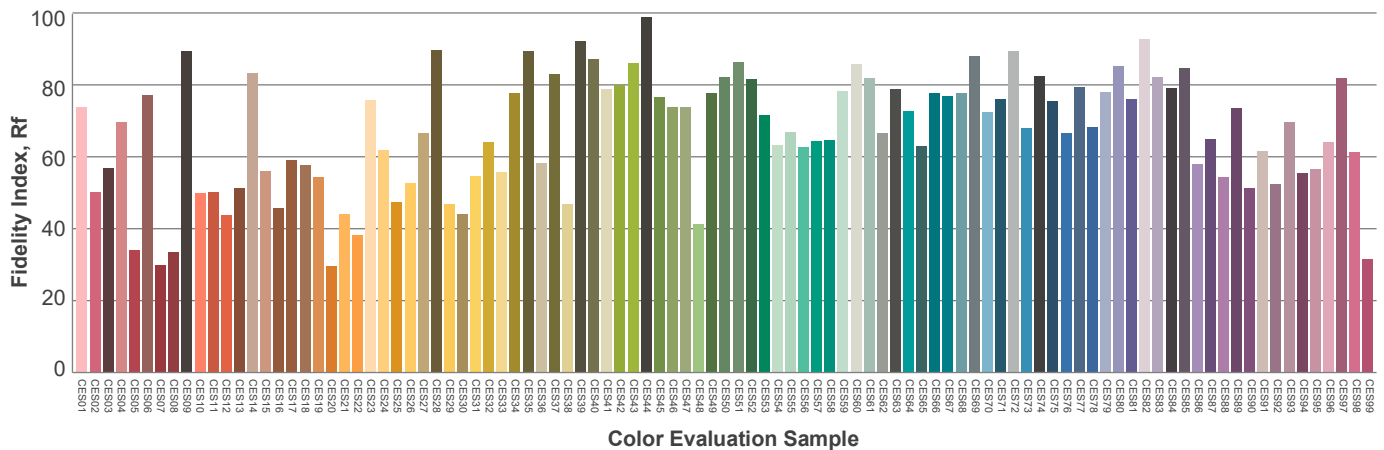
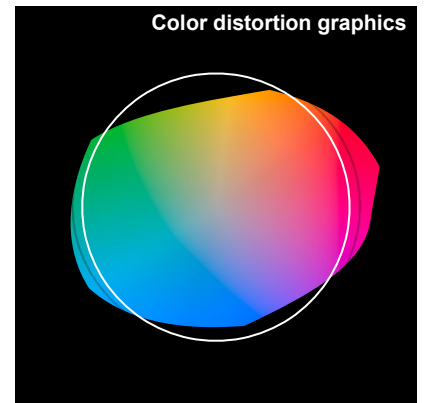
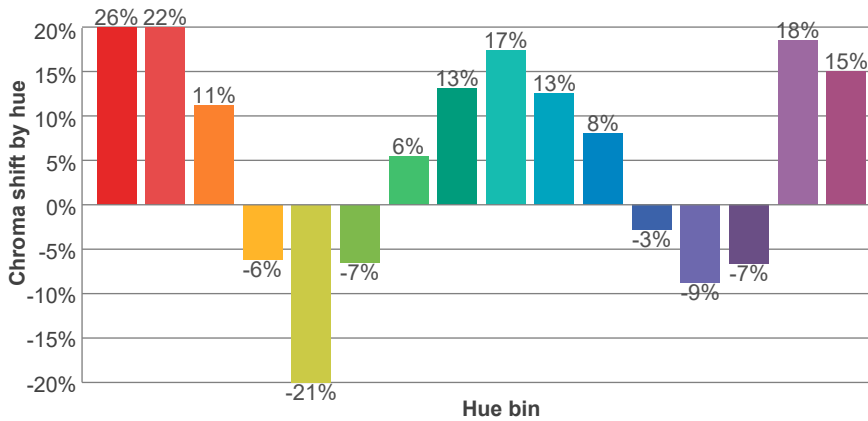
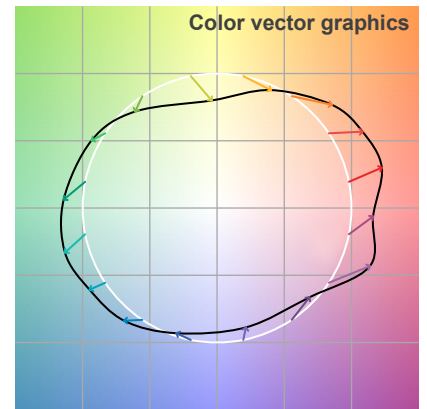
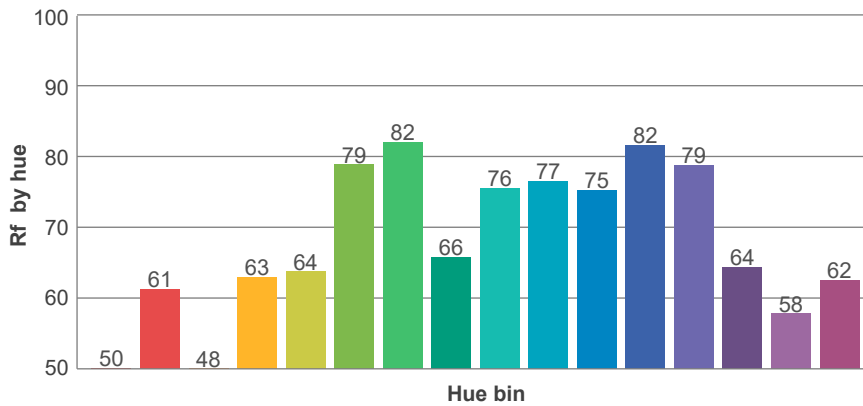
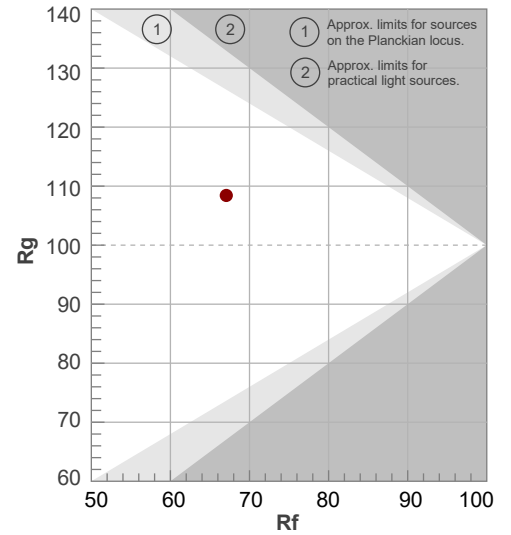
**Rf 67.1**

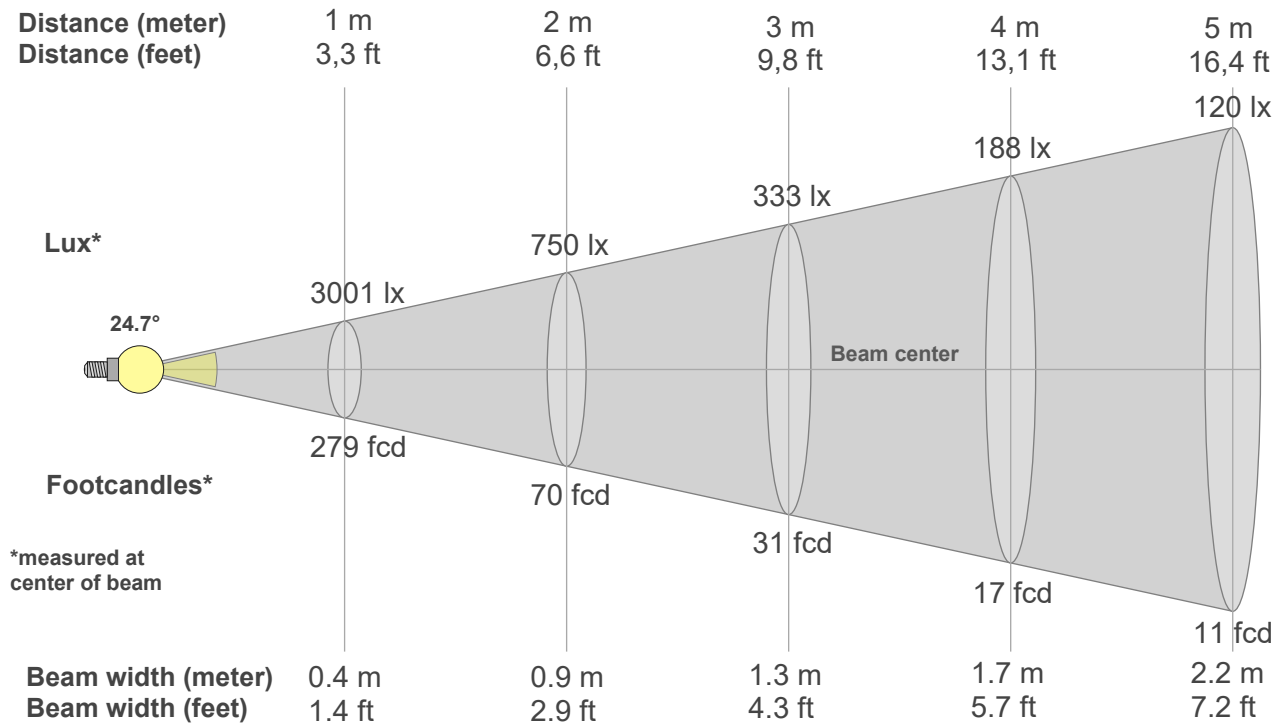
Fidelity index Rf

**Rg 108.4**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	50	26%	6%
2	61	22%	-13%
3	48	11%	-28%
4	63	-6%	-22%
5	64	-21%	-12%
6	79	-7%	11%
7	82	6%	10%
8	66	13%	16%
9	76	17%	10%
10	77	13%	-2%
11	75	8%	-11%
12	82	-3%	-11%
13	79	-9%	4%
14	64	-7%	20%
15	58	18%	27%
16	62	15%	16%





## 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
3001lx	750lx	333lx	188lx	120lx	83lx	61lx	47lx	37lx	30lx	25lx	21lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	8lx
278.8fcd	69.7fcd	31fcd	17.4fcd	11.2fcd	7.7fcd	5.7fcd	4.4fcd	3.4fcd	2.8fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

## 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°
3001	2830	2650	2465	2132	1799	1510	1258	1009	859	709	594	509	426	373	321	278	244	209	186
100%	94%	88%	82%	71%	60%	50%	42%	34%	29%	24%	20%	17%	14%	12%	11%	9%	8%	7%	6%

## 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°
3001	2821	2675	2505	2185	1865	1583	1323	1078	918	759	641	547	458	400	342	298	260	225	201
100%	94%	89%	83%	73%	62%	53%	44%	36%	31%	25%	21%	18%	15%	13%	11%	10%	9%	7%	7%

## Intensities in 180° c-plane

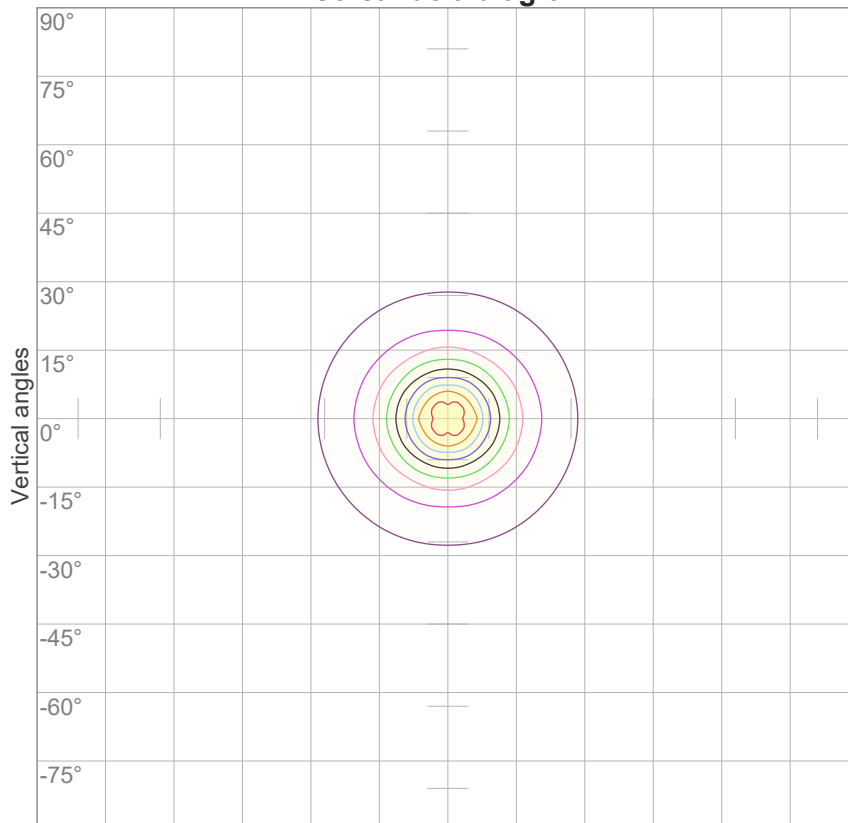
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3001	2830	2650	2465	2132	1799	1510	1258	1009	859	709	594	509	426	373	321	278	244	209	186
100%	94%	88%	82%	71%	60%	50%	42%	34%	29%	24%	20%	17%	14%	12%	11%	9%	8%	7%	6%

## 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°
3001	2821	2675	2505	2185	1865	1583	1323	1078	918	759	641	547	458	400	342	298	260	225	201
100%	94%	89%	83%	73%	62%	53%	44%	36%	31%	25%	21%	18%	15%	13%	11%	10%	9%	7%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
24.7°	62.6°	113.3°	91.9%	82.0%

**iso-candela diagram**



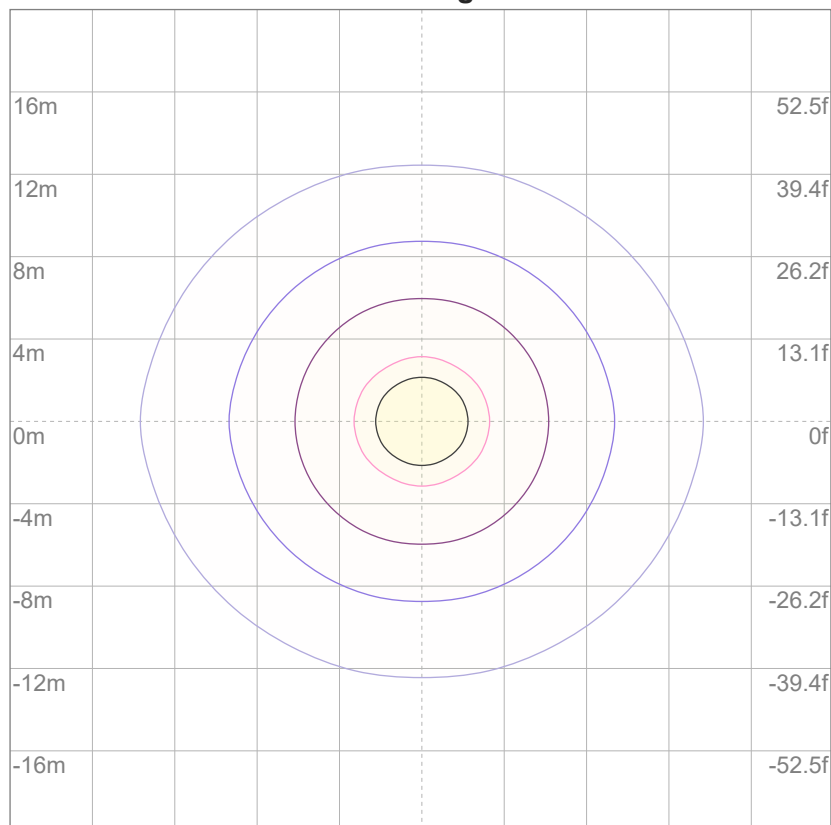
10%	300 cd
20%	600 cd
30%	900 cd
40%	1200 cd
50%	1501 cd
60%	1801 cd
70%	2101 cd
80%	2401 cd
90%	2701 cd

Conditions:

Number of c-planes: 12

Candela at center: 3001 cd

**iso-lux diagram**



3%	0.900 lx
5%	1.50 lx
10%	3.00 lx
30%	9.00 lx
50%	15.0 lx

Conditions:

Number of c-planes: 12

Lux at center: 30.0 lx

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

Mounting height: 10 meters (33 feet)

**Glare evaluation according to UGR**

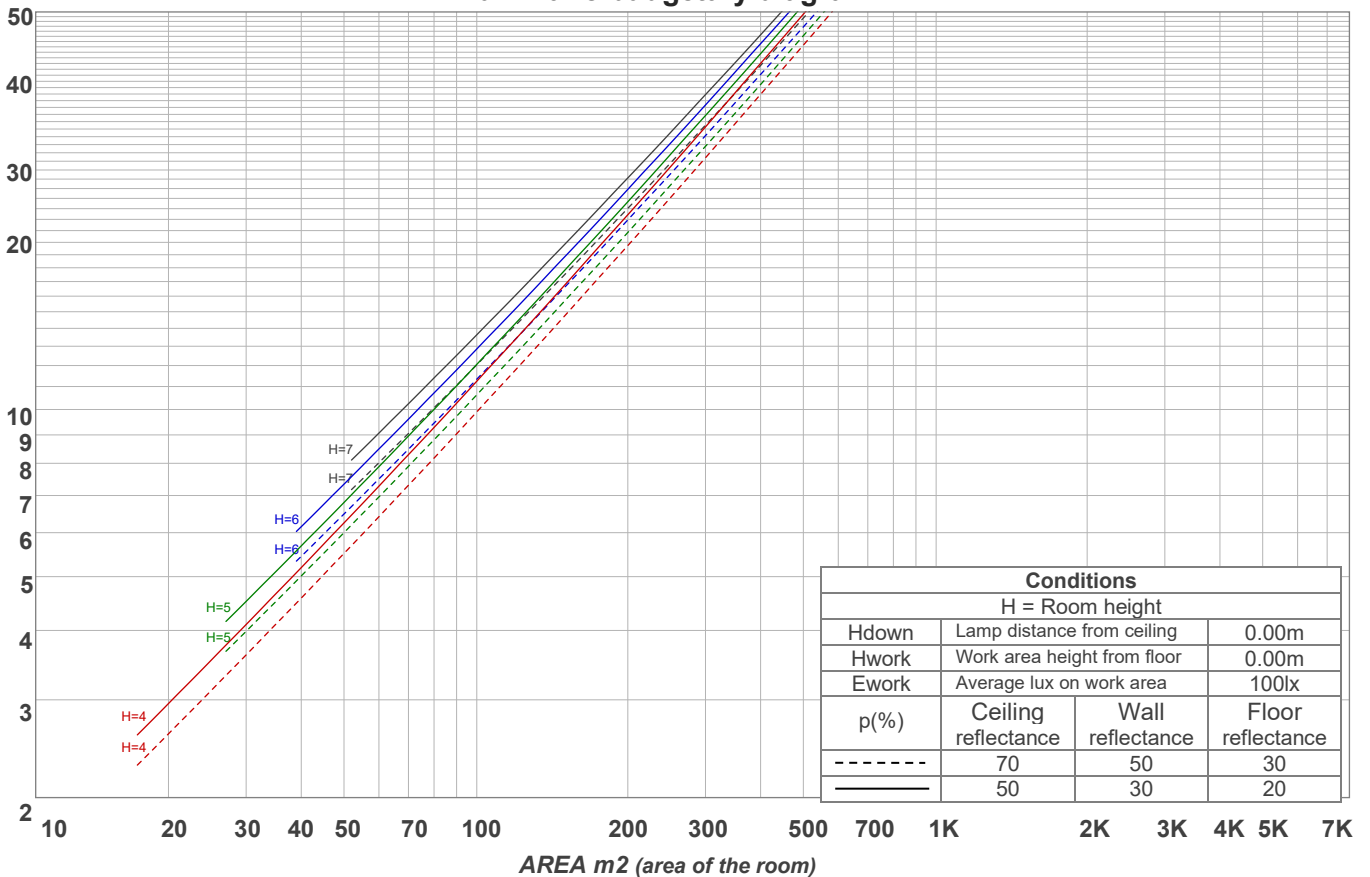
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X      Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	12.9	13.6	13.1	13.9	14.1	14.6	15.3	14.7	15.5	15.8
	3H	13.5	14.3	13.9	14.6	14.8	15.6	16.4	16.0	16.6	16.8
	4H	13.7	14.5	14.1	14.8	15.0	16.0	16.8	16.4	17.1	17.3
	6H	13.9	14.5	14.2	14.8	15.2	16.4	17.1	16.7	17.4	17.8
	8H	13.9	14.5	14.2	14.9	15.3	16.5	17.1	16.8	17.5	17.9
	12H	13.8	14.5	14.2	14.8	15.3	16.5	17.1	16.9	17.5	17.9
4H	2H	13.2	14.0	13.6	14.3	14.6	14.6	15.5	15.1	15.7	16.0
	3H	14.2	14.8	14.5	15.2	15.6	16.0	16.6	16.3	17.0	17.4
	4H	14.4	15.0	14.8	15.4	15.9	16.4	17.0	16.9	17.5	18.0
	6H	14.5	15.1	15.0	15.5	15.9	16.8	17.4	17.3	17.8	18.1
	8H	14.5	15.1	15.0	15.4	15.8	16.9	17.5	17.4	17.8	18.2
	12H	14.5	15.0	15.0	15.4	15.9	17.0	17.4	17.5	17.8	18.3
8H	4H	14.5	15.1	15.0	15.4	15.8	16.5	17.0	17.0	17.4	17.8
	6H	14.7	15.1	15.3	15.6	16.2	16.9	17.3	17.4	17.8	18.3
	8H	14.8	15.1	15.3	15.7	16.3	17.1	17.4	17.6	17.9	18.6
	12H	14.8	15.1	15.4	15.6	16.2	17.1	17.4	17.7	17.9	18.5
12H	4H	14.5	14.9	15.0	15.4	15.8	16.4	16.9	16.9	17.3	17.8
	6H	14.8	15.1	15.3	15.6	16.3	16.9	17.2	17.4	17.8	18.4
	8H	14.8	15.1	15.4	15.6	16.2	17.0	17.3	17.6	17.8	18.4
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.6 / -0.6					0.5 / -0.4				
S = 1.5H		1.5 / -1.1					1.3 / -0.9				
S = 2.0H		2.4 / -1.7					2.2 / -1.5				
CIE 117-1995. Corrected glare indices referring to 1182 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	95	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	88	83	98	92	86	82	89	84	81	86	83	80	84	81	78	76
4	95	87	81	76	93	85	80	76	83	78	75	81	77	74	79	76	73	71
5	90	81	75	70	88	80	74	70	78	73	69	76	72	69	75	71	68	66
6	86	76	70	66	84	76	70	65	74	69	65	72	68	64	71	67	64	62
7	82	72	66	62	80	72	66	61	70	65	61	69	64	61	68	63	60	59
8	78	69	62	58	77	68	62	58	67	62	58	66	61	57	65	60	57	56
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	54	53
10	72	62	57	53	71	62	56	53	61	56	52	60	55	52	59	55	52	51

LAMPS (number of lamps)

## Luminaire budgetary diagram



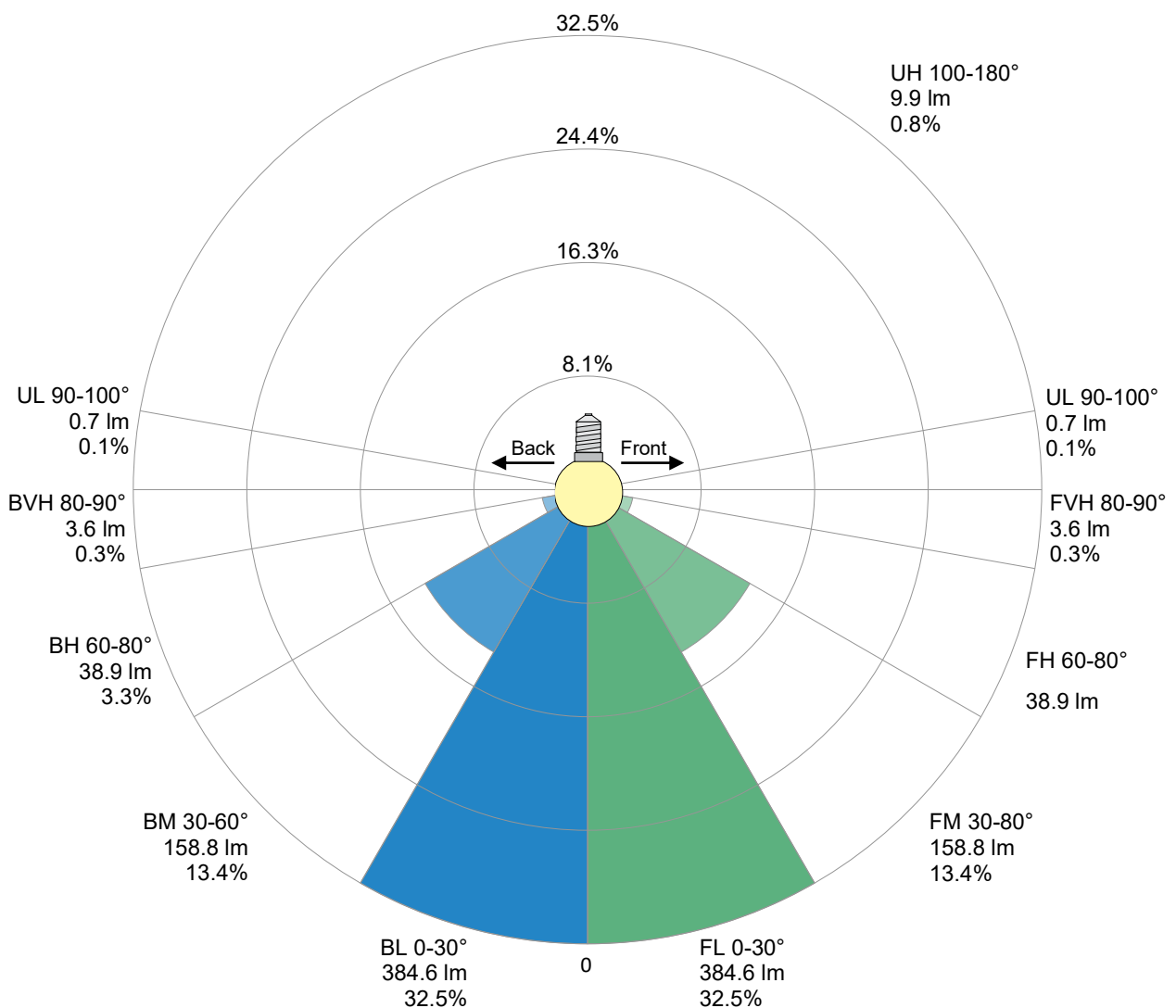
## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
225 lm	322 lm	222 lm	146 lm	99.1 lm	72.2 lm	51.1 lm	27.0 lm	7.02 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.631 lm	0.700 lm	0.945 lm	1.21 lm	1.73 lm	1.84 lm	1.75 lm	1.27 lm	0.462 lm

LCS table

BUG rating:	B1 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	384.6	32.5%
Medium(30-60):	158.8	13.4%
High(60-80):	38.9	3.3%
Very high(80-90):	3.6	0.3%
Back light		
Low(0-30):	384.6	32.5%
Medium(30-60):	158.8	13.4%
High(60-80):	38.9	3.3%
Very high(80-90):	3.6	0.3%
Uplight		
Low(90-100):	0.7	0.1%
High(100-180):	9.9	0.8%

LCS graph

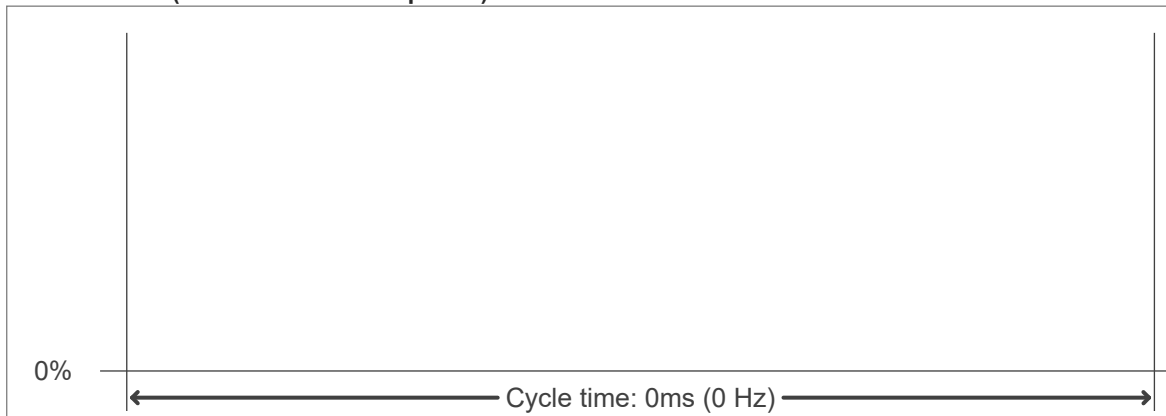




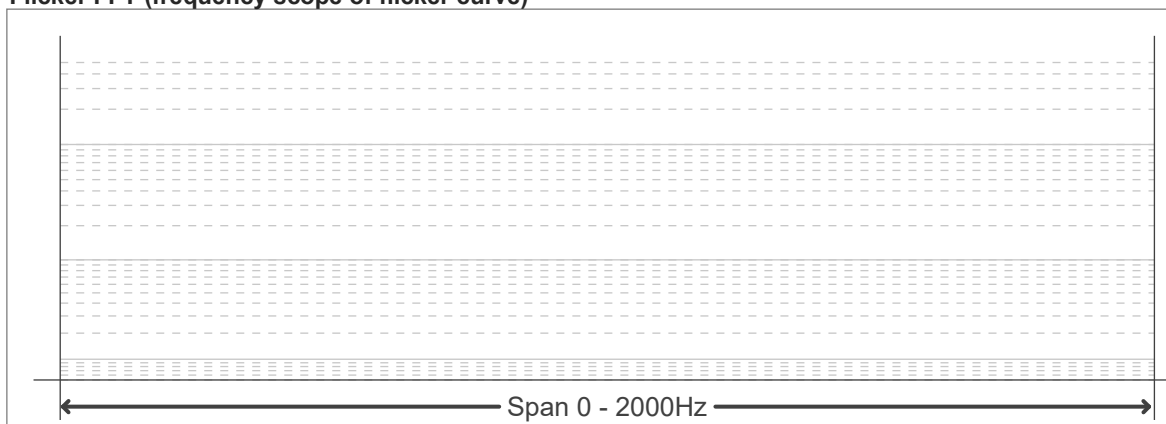
**Flicker curve (complete sampled flicker signal)**



**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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