

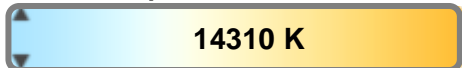
Light efficiency:



Light quality:



Color temperature:



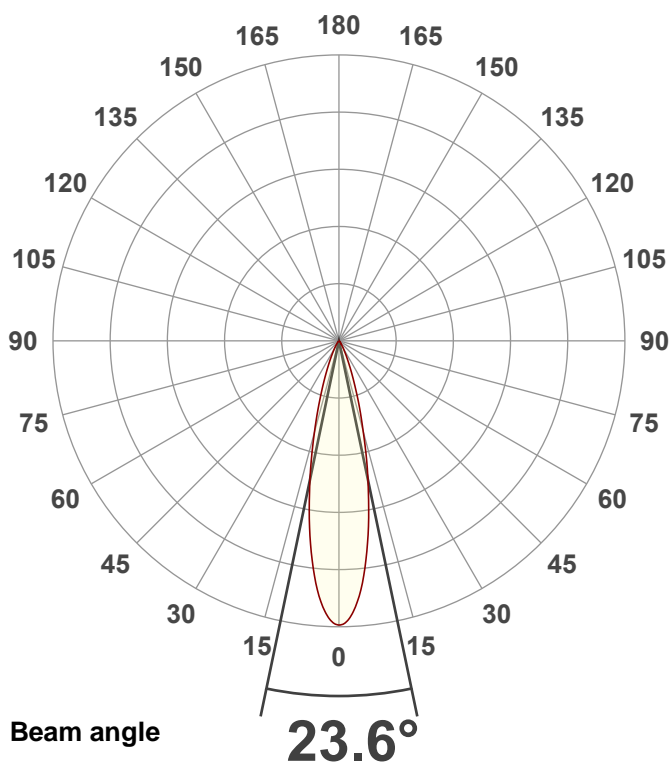
**Output: 7055 lm**  
**Peak: 32651 cd**  
**Power: 259 W**  
**PF: 1.0**



Product name:  
**Encore LP18IP**

Item number:  
**CRI**

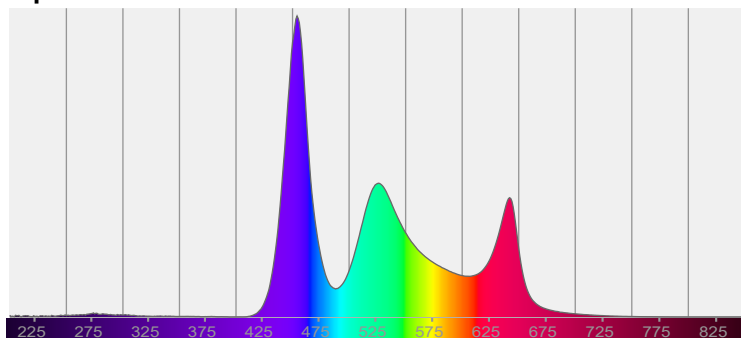
Note:  
**R @ 186**  
**G @ 255**  
**B @ 176**  
**L @ 255**



CIE 1931  
x: 0.260  
y: 0.275

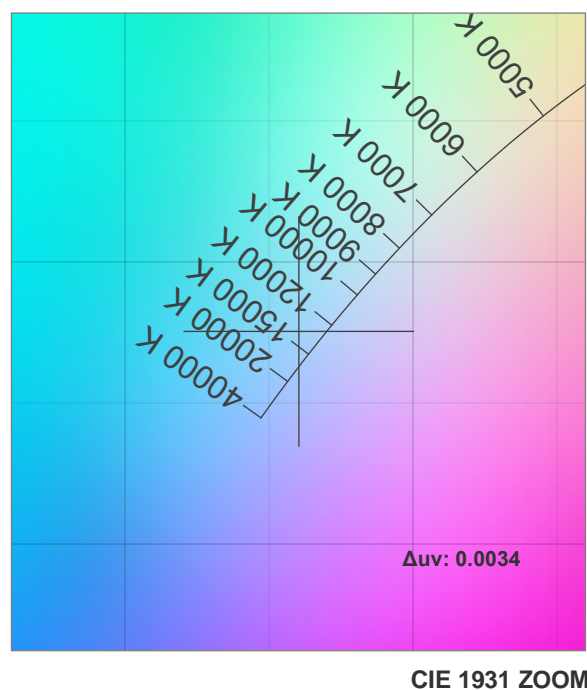
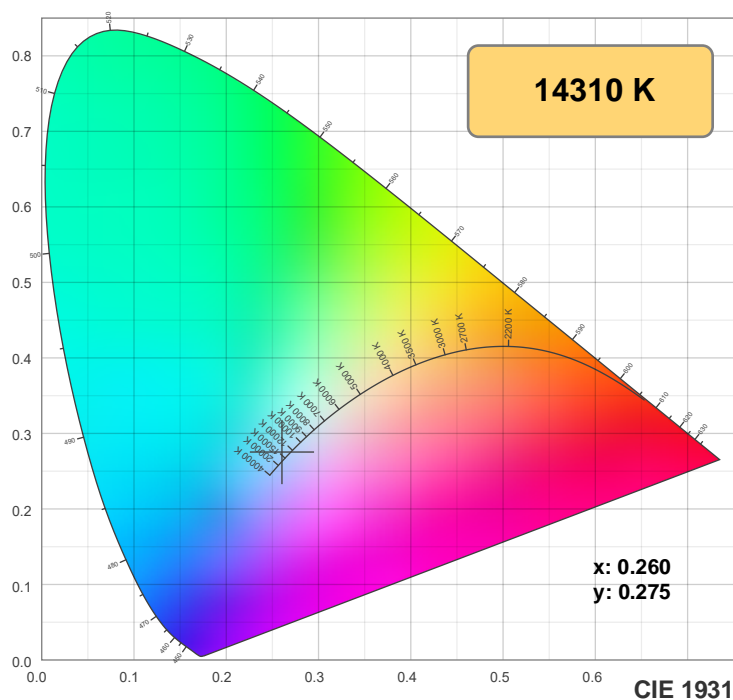
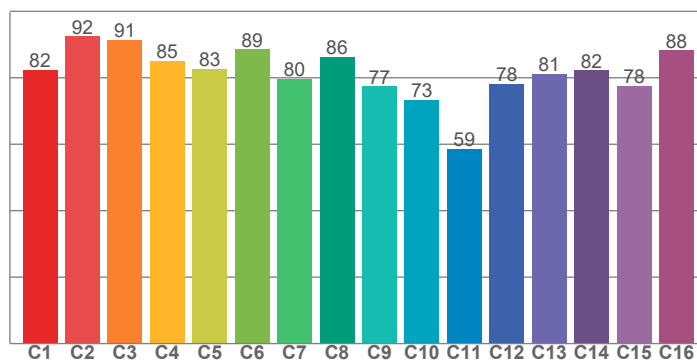
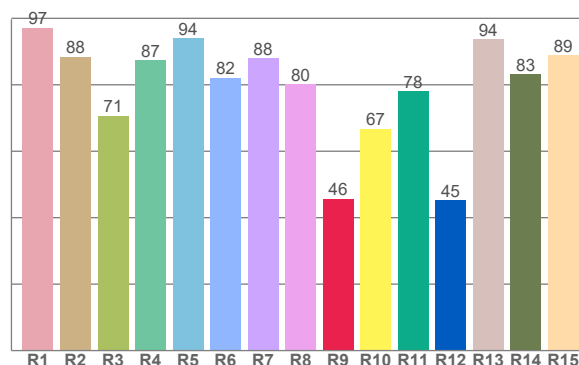
Spectra

TLCI: 86



Power

Voltage: 120 V  
Current: 2.16 A  
Frequency: 0 Hz


**TM-30: 82.4**

**CRI: 86.0 (R1-R8)**

**CRI R values, only R1-R8 are used to calculate final CRI value**

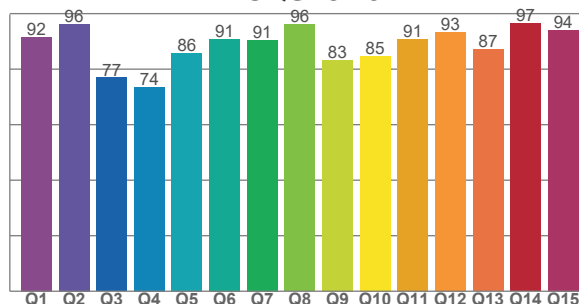
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.2	88.5	70.7	87.4	94.1	82.2	87.9	80.2	45.7	66.8	78.1	45.3	93.7	83.3	88.9

**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
82.3	92.4	91.5	85.1	82.7	88.5	79.7	86.3	77.4	73.3	58.7	78.2	81.1	82.2	77.5	88.2

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.6	96.2	77.0	73.5	85.9	90.9	90.5	96.2	83.4	84.7	90.9	93.4	87.2	96.5	94.2

**CQS: 87.0**


### 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
14310 K	86.0	45.7	82.4	102.2	87.0	0.260	0.275	0.180	0.286	0.0034

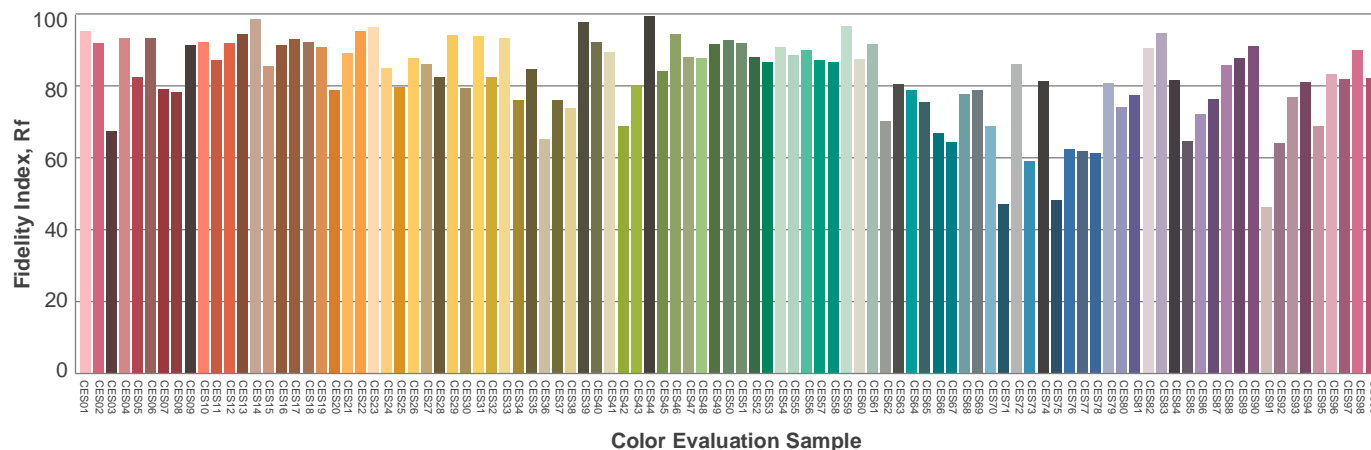
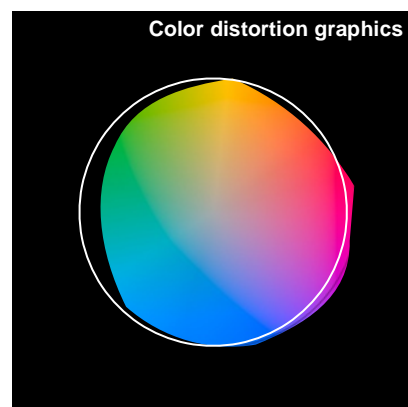
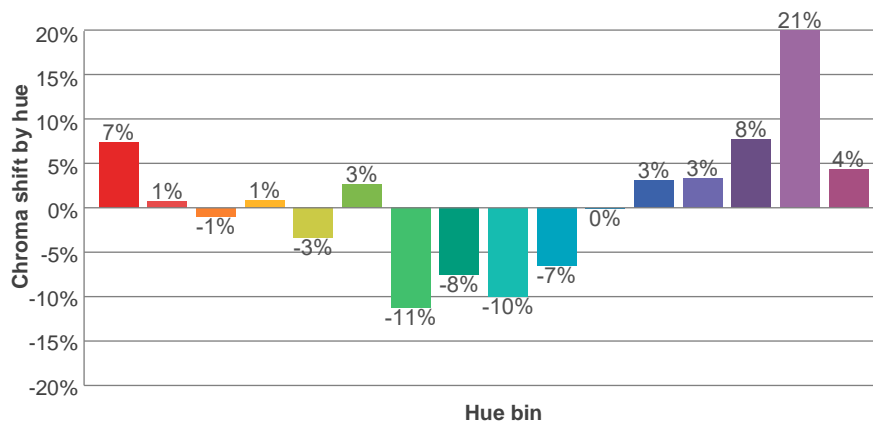
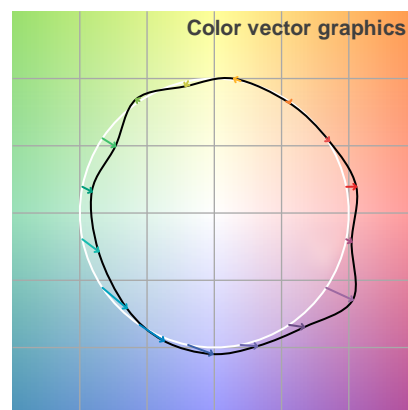
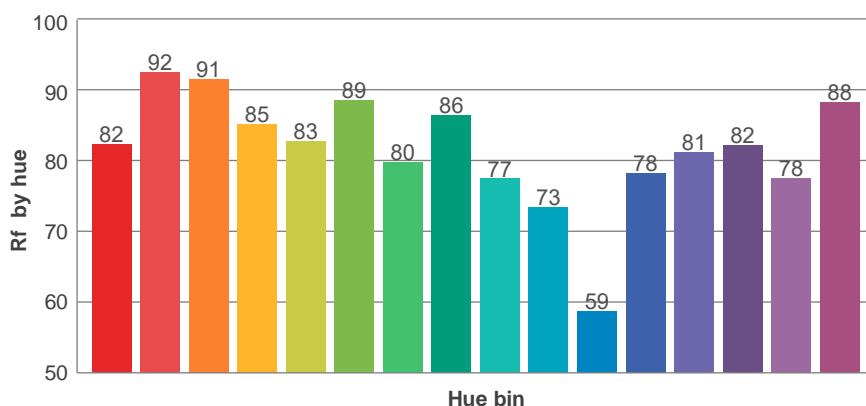
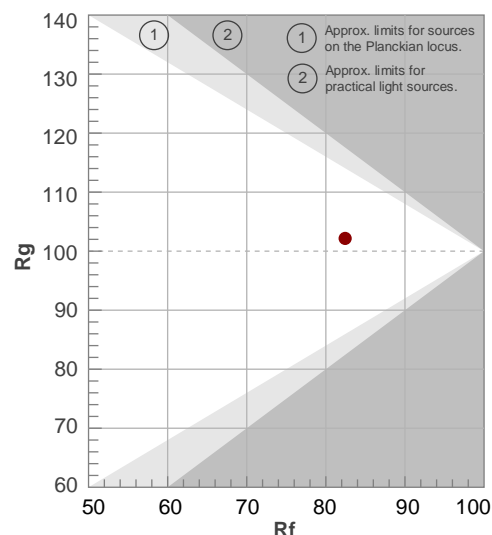
**Rf 82.4**

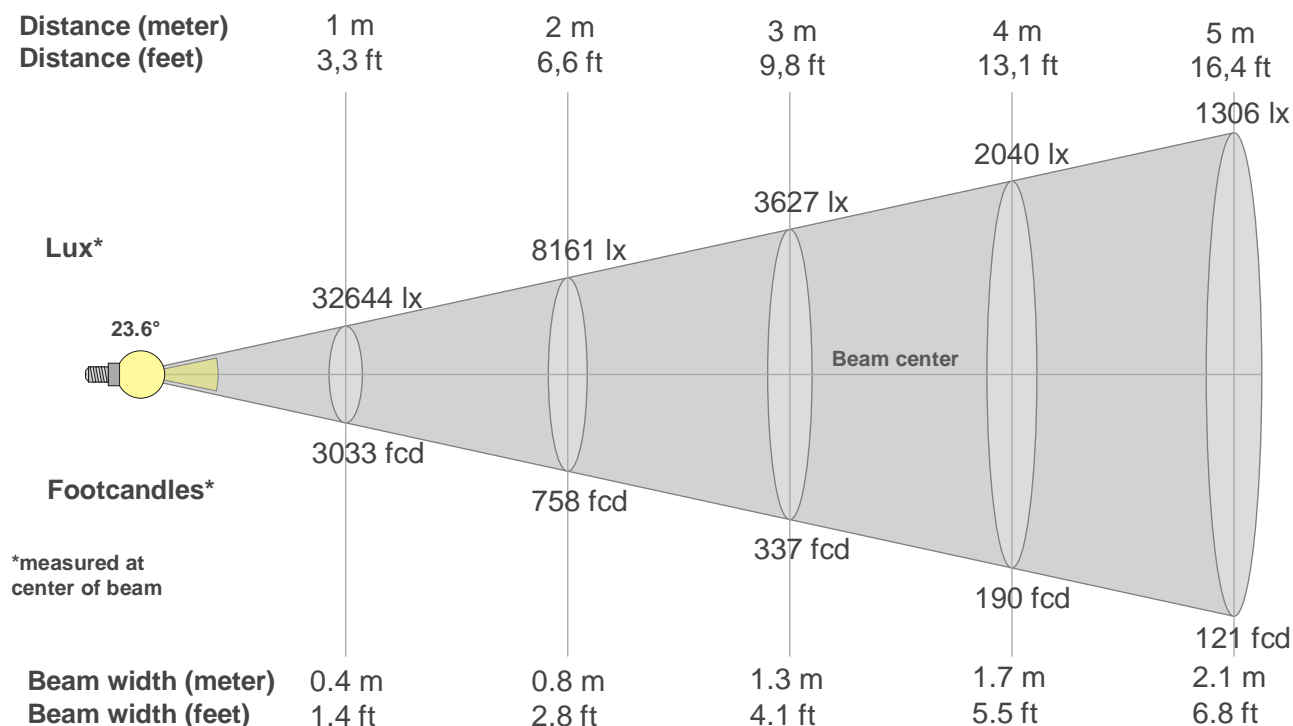
Fidelity index Rf

**Rg 102.2**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	82	7%	-1%
2	92	1%	-3%
3	91	-1%	-1%
4	85	1%	5%
5	83	-3%	3%
6	89	3%	1%
7	80	-11%	0%
8	86	-8%	2%
9	77	-10%	11%
10	73	-7%	23%
11	59	0%	22%
12	78	3%	19%
13	81	3%	12%
14	82	8%	8%
15	78	21%	3%
16	88	4%	-1%




**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
32644lx	8161lx	3627lx	2040lx	1306lx	907lx	666lx	510lx	403lx	326lx	270lx	227lx	193lx	167lx	145lx	128lx	113lx	101lx	90lx	82lx
3032.7fcd	758.2fcd	337fcd	189.5fcd	121.3fcd	84.2fcd	61.9fcd	47.4fcd	37.4fcd	30.3fcd	25.1fcd	21.1fcd	17.9fcd	15.5fcd	13.5fcd	11.8fcd	10.5fcd	9.4fcd	8.4fcd	7.6fcd

**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°
32.6K	32.0K	30.1K	27.2K	23.5K	19.7K	15.9K	12.4K	9.4K	7.0K	5.1K	3.7K	2.6K	1.9K	1.4K	1.0K	0.7K	0.5K	0.4K	0.3K
100%	98%	92%	83%	72%	60%	49%	38%	29%	22%	16%	11%	8%	6%	4%	3%	2%	2%	1%	1%

**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°
32.6K	32.0K	30.1K	27.2K	23.5K	19.7K	15.9K	12.4K	9.4K	7.0K	5.1K	3.7K	2.6K	1.9K	1.4K	1.0K	0.7K	0.5K	0.4K	0.3K
100%	98%	92%	83%	72%	60%	49%	38%	29%	22%	16%	11%	8%	6%	4%	3%	2%	2%	1%	1%

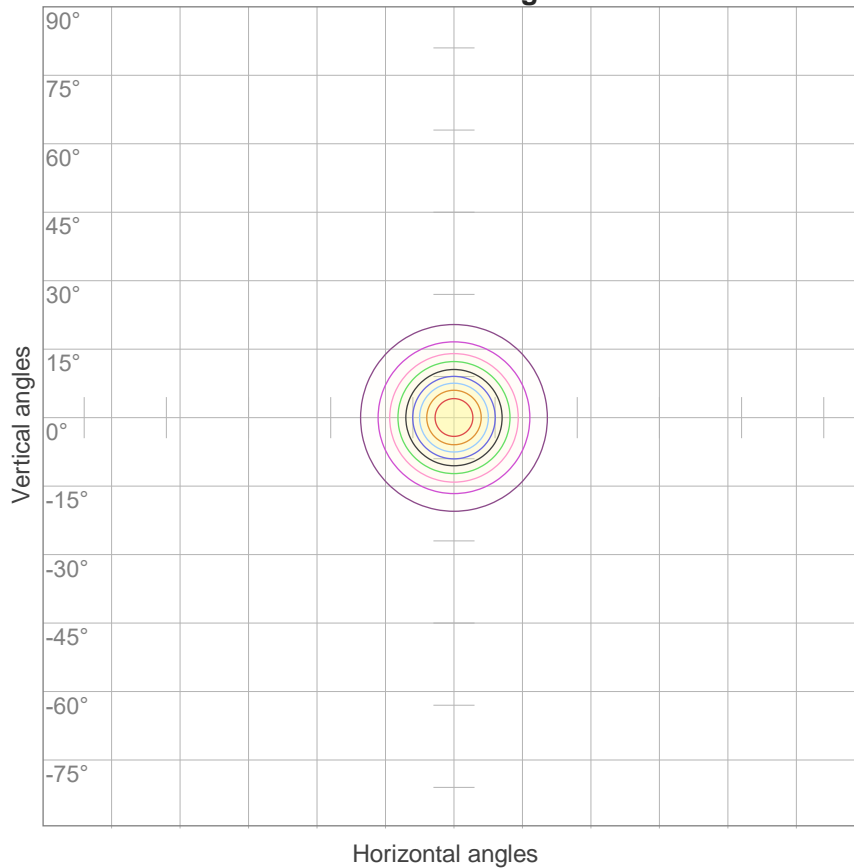
**Intensities in 180° c-plane**

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
32.6K	31.9K	30.0K	27.1K	23.5K	19.7K	15.9K	12.5K	9.5K	7.1K	5.2K	3.8K	2.8K	2.0K	1.4K	1.0K	0.8K	0.6K	0.4K	0.4K
100%	98%	92%	83%	72%	60%	49%	38%	29%	22%	16%	12%	8%	6%	4%	3%	2%	2%	1%	1%

**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°
32.6K	31.9K	30.0K	27.1K	23.5K	19.7K	15.9K	12.5K	9.5K	7.1K	5.2K	3.8K	2.8K	2.0K	1.4K	1.0K	0.8K	0.6K	0.4K	0.4K
100%	98%	92%	83%	72%	60%	49%	38%	29%	22%	16%	12%	8%	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
23.6°	45.7°	63.2°	100.0%	99.0%

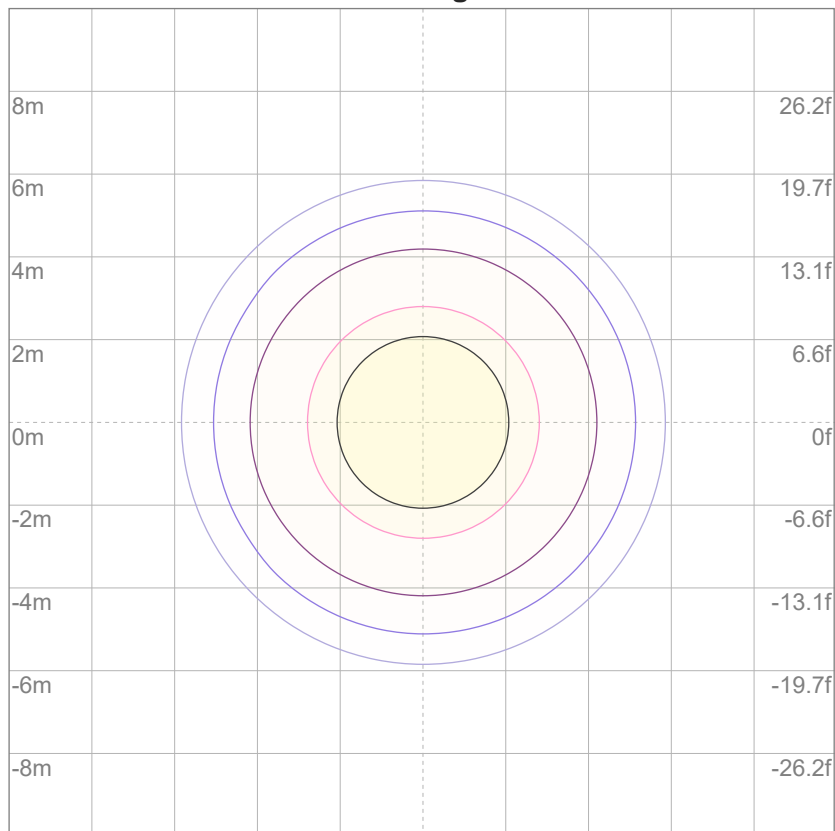
**iso-candela diagram**


10%	3264 cd
20%	6529 cd
30%	9793 cd
40%	13058 cd
50%	16322 cd
60%	19586 cd
70%	22851 cd
80%	26115 cd
90%	29380 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 32644 cd

**iso-lux diagram**


3%	9.79 lx
5%	16.3 lx
10%	32.6 lx
30%	97.9 lx
50%	163 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 326 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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
CIE 117-1995. Corrected glare indices referring to 7055 lm total luminous flux										

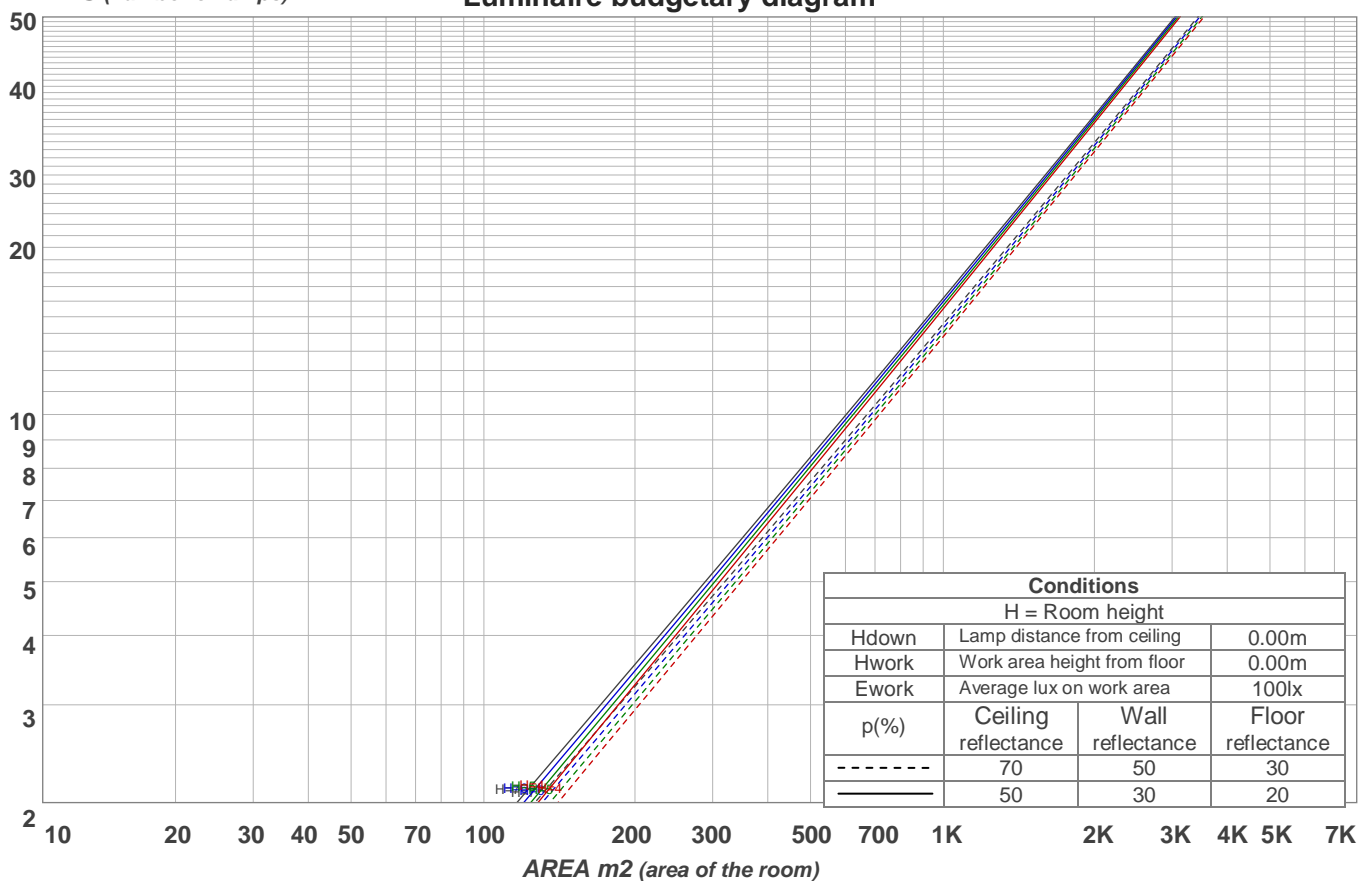
UGR data could not be calculated due to missing dimensions. Goto Edit->Photometric->Dimensions and set the fixture/lamp dimensions.

## 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	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90
4	104	99	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87
5	101	95	91	87	99	94	90	87	92	89	86	91	88	86	89	87	85	84
6	98	91	87	84	97	91	87	84	89	86	83	88	85	83	87	84	82	81
7	95	88	84	81	94	88	84	81	87	83	80	86	82	80	85	82	80	79
8	92	86	81	78	91	85	81	78	84	81	78	83	80	78	82	80	77	76
9	90	83	79	76	89	83	79	76	82	78	76	81	78	75	80	77	75	74
10	87	81	76	74	87	80	76	74	79	76	73	79	76	73	78	75	73	72

LAMPS (number of lamps)

## Luminaire budgetary diagram



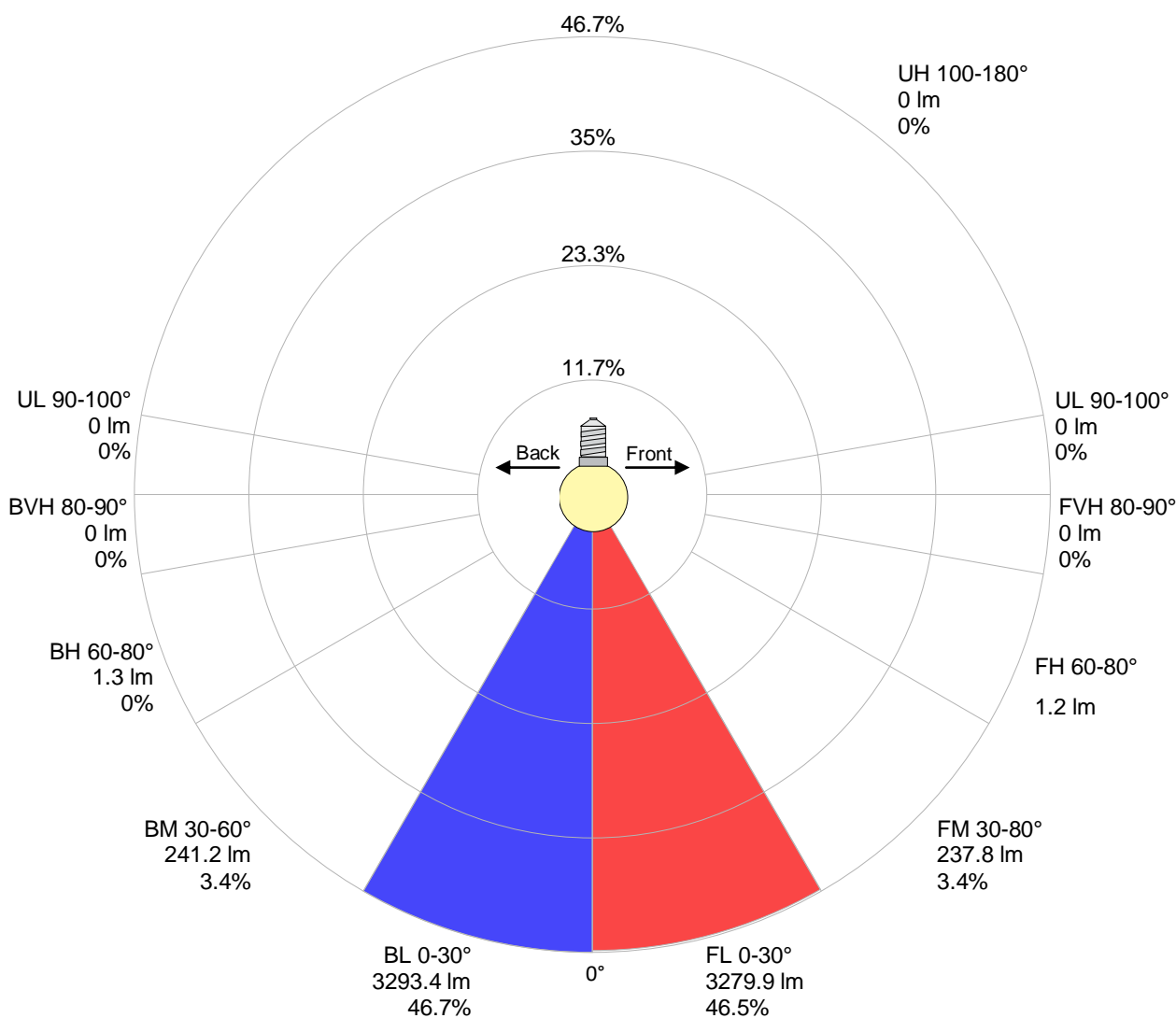
## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	3011 lm	1125 lm	340 lm	111 lm	27.9 lm	1.92 lm	0.008 lm	0.000 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.004 lm	0.022 lm	0.010 lm

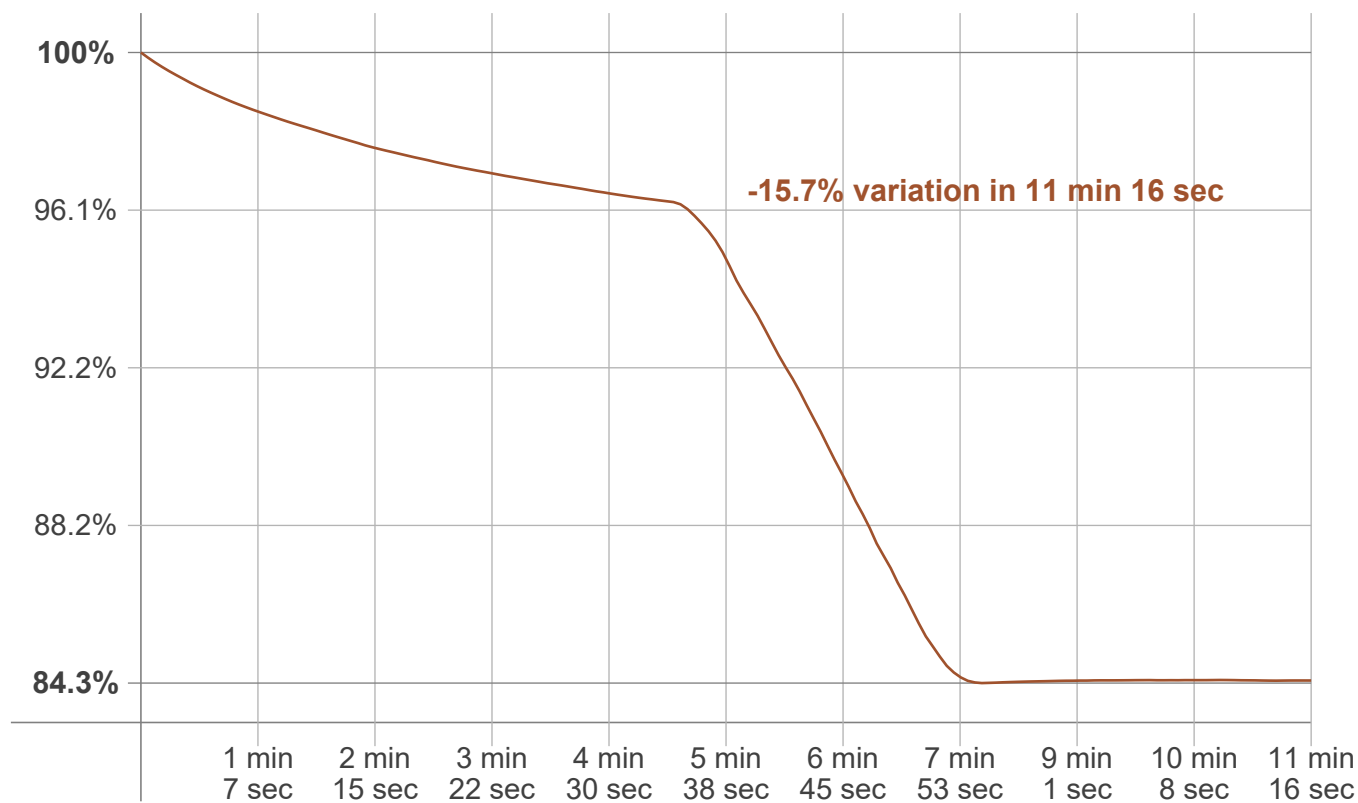
LCS table

BUG rating:	B4 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	3279.9	46.5%
Medium(30-60):	237.8	3.4%
High(60-80):	1.2	0%
Very high(80-90):	0	0%
Back light		
Low(0-30):	3293.4	46.7%
Medium(30-60):	241.2	3.4%
High(60-80):	1.3	0%
Very high(80-90):	0	0%
Uplight		
Low(90-100):	0	0%
High(100-180):	0	0%

LCS graph





**Warmup curve**

**Warmup result**

Warmup time:	Not completed
Warmup variation	-15.7%

**Warmup conditions**

Stable period:	15 min
Stable change max:	2.0%
Minimum time:	15 min

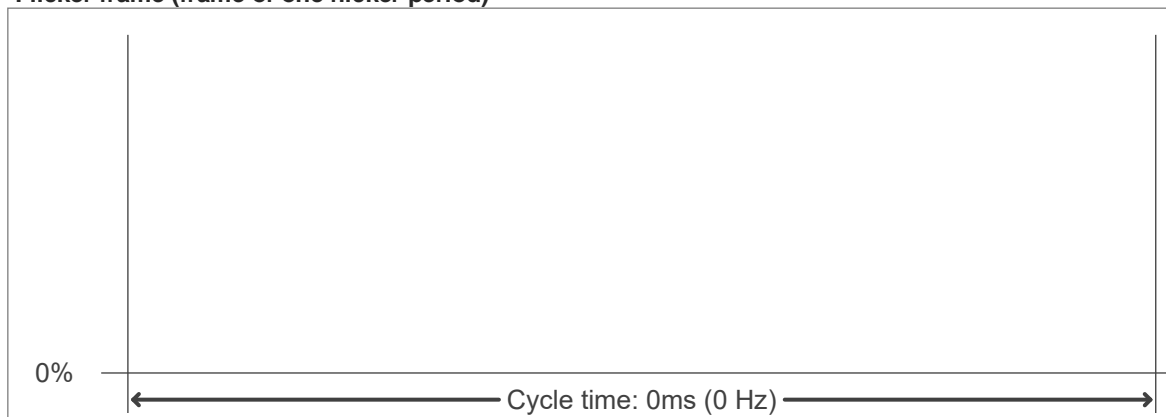
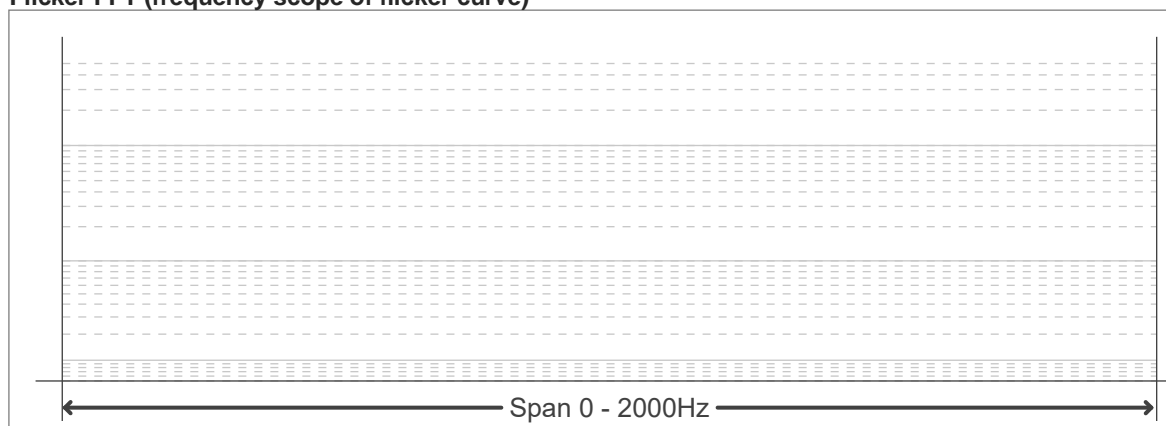
**Color temperature change**

CCT start	CCT change	CCT end
13838 K	+472 K	14310 K

**Output change**

Output start	Output change	Output end
8333 lm	-1278 lm	7055 lm

**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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