

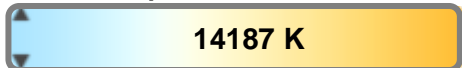
Light efficiency:



Light quality:



Color temperature:



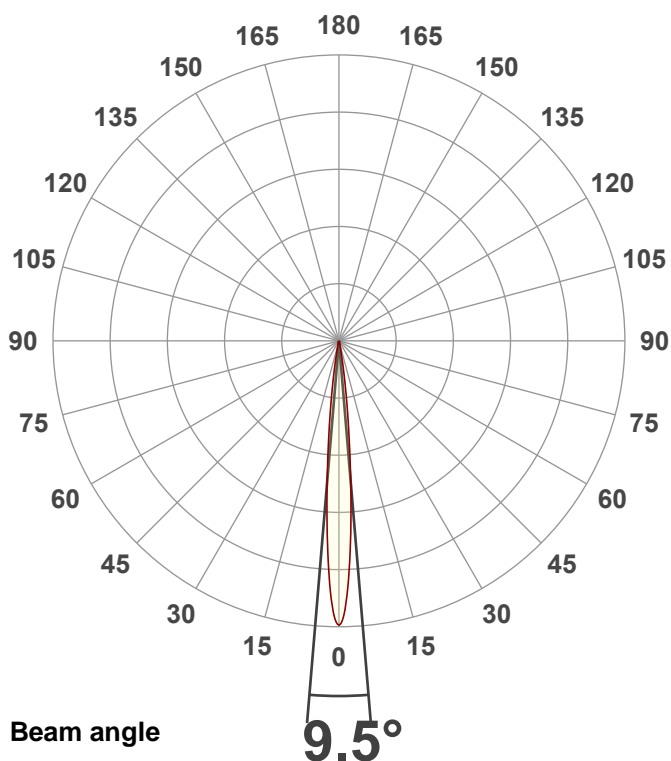
**Output:** 7353 lm  
**Peak:** 211061 cd  
**Power:** 260 W  
**PF:** 1.0



Product name:  
**Encore LP18IP**

Item number:  
**CRI No Lens**

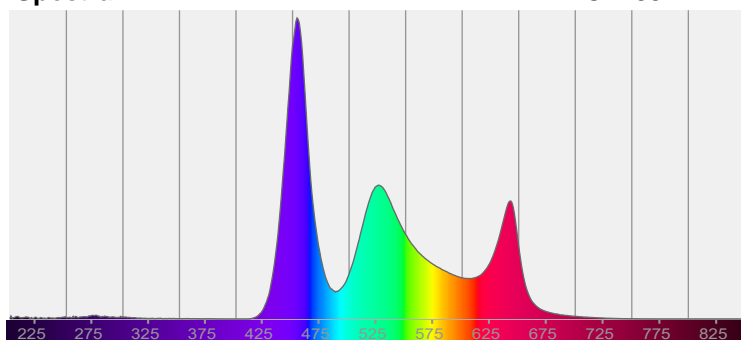
Note:  
**R @ 186**  
**G @ 255**  
**B @ 176**  
**L @ 255**



CIE 1931  
x: 0.260  
y: 0.276

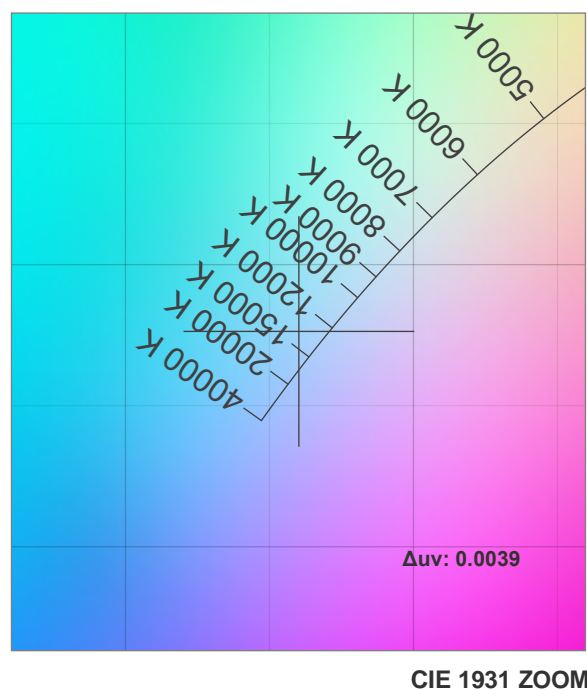
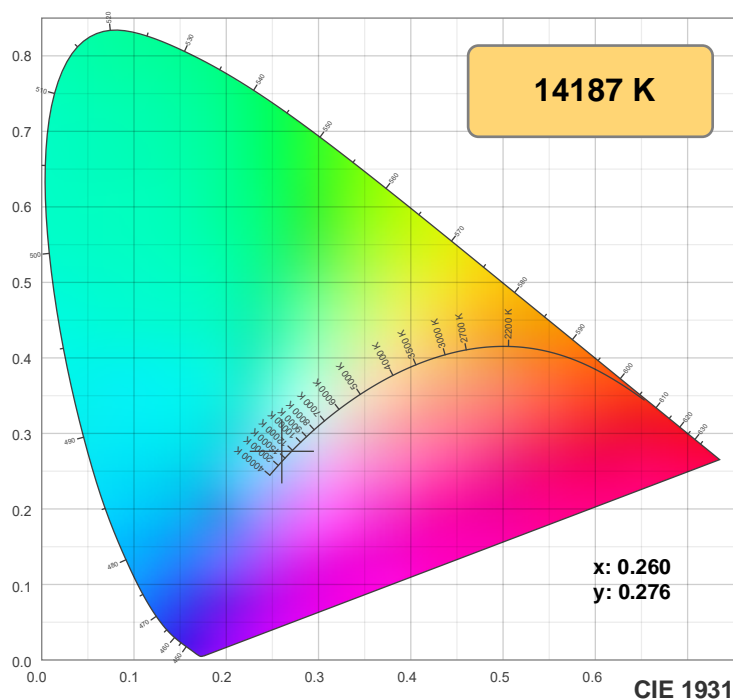
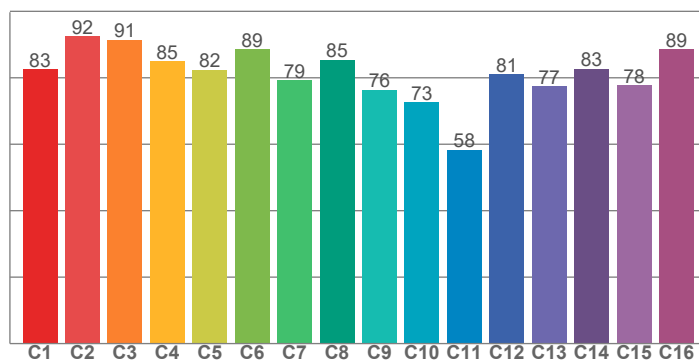
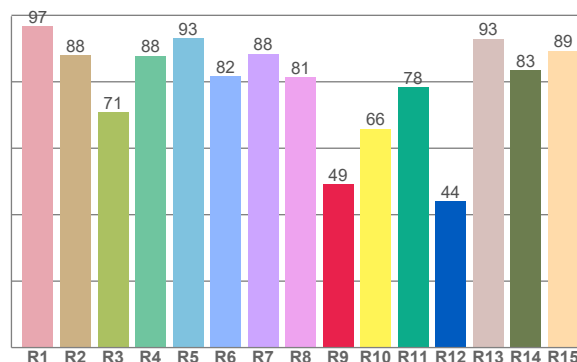
Spectra

TLCI: 85



Power

Voltage: 118 V  
Current: 2.20 A  
Frequency: 0 Hz


**TM-30: 82.2**

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

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

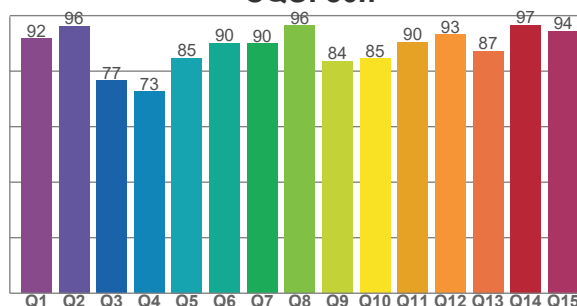
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
96.7	88.1	70.8	87.9	93.1	81.6	88.4	81.4	49.2	65.8	78.4	44.0	93.0	83.4	89.4

**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
82.5	92.4	91.4	85.0	82.4	88.6	79.3	85.5	76.4	72.6	58.2	81.0	77.4	82.7	77.7	88.6

**CQS Q values**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
91.8	96.3	76.7	72.6	84.8	90.0	90.0	96.4	83.6	84.6	90.5	93.2	87.3	96.7	94.4

**CQS: 86.7**


### 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
14187 K	86.0	49.2	82.2	101.6	86.7	0.260	0.276	0.180	0.286	0.0039

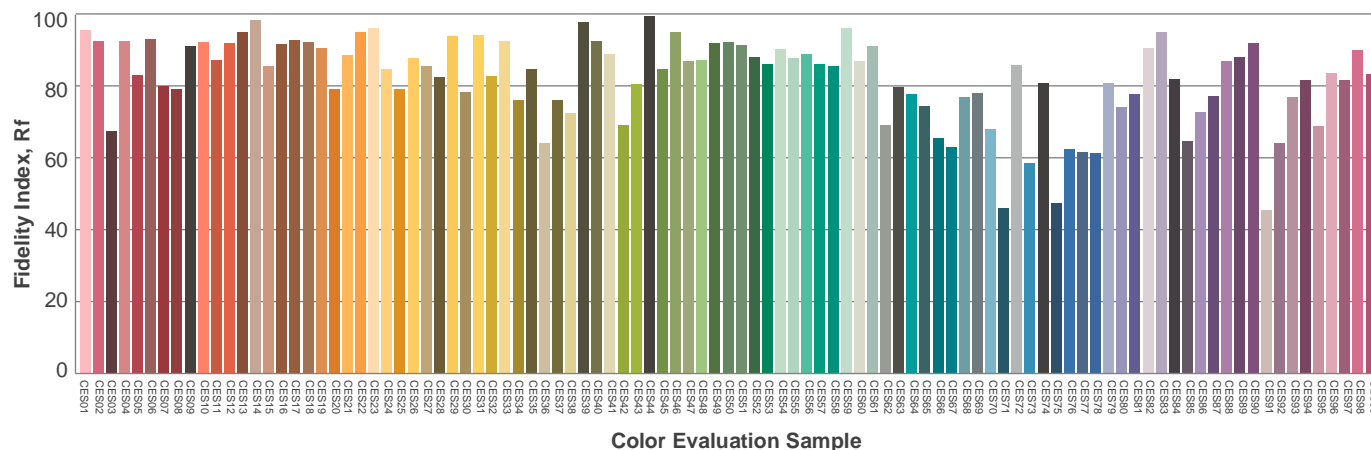
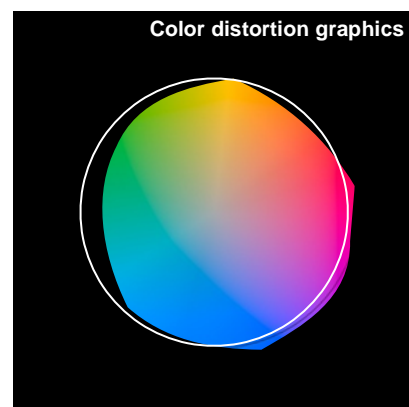
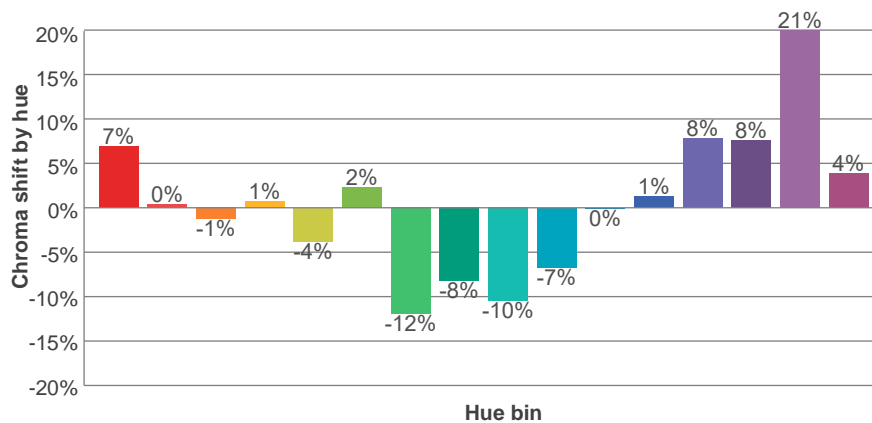
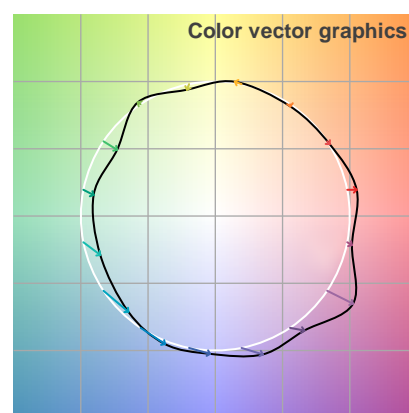
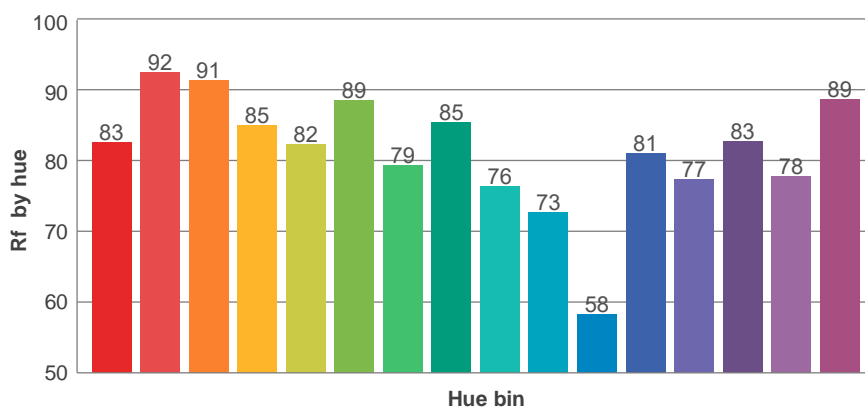
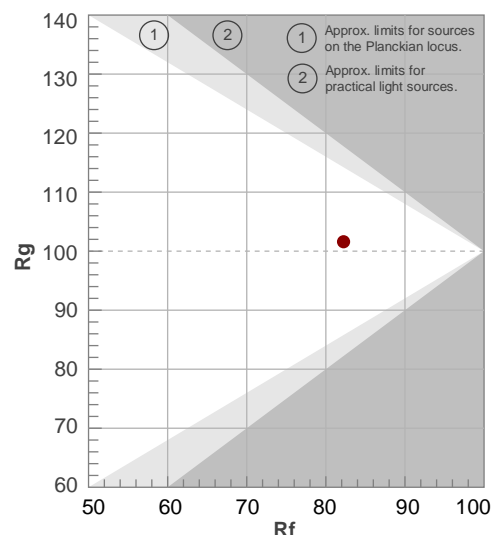
**Rf 82.2**

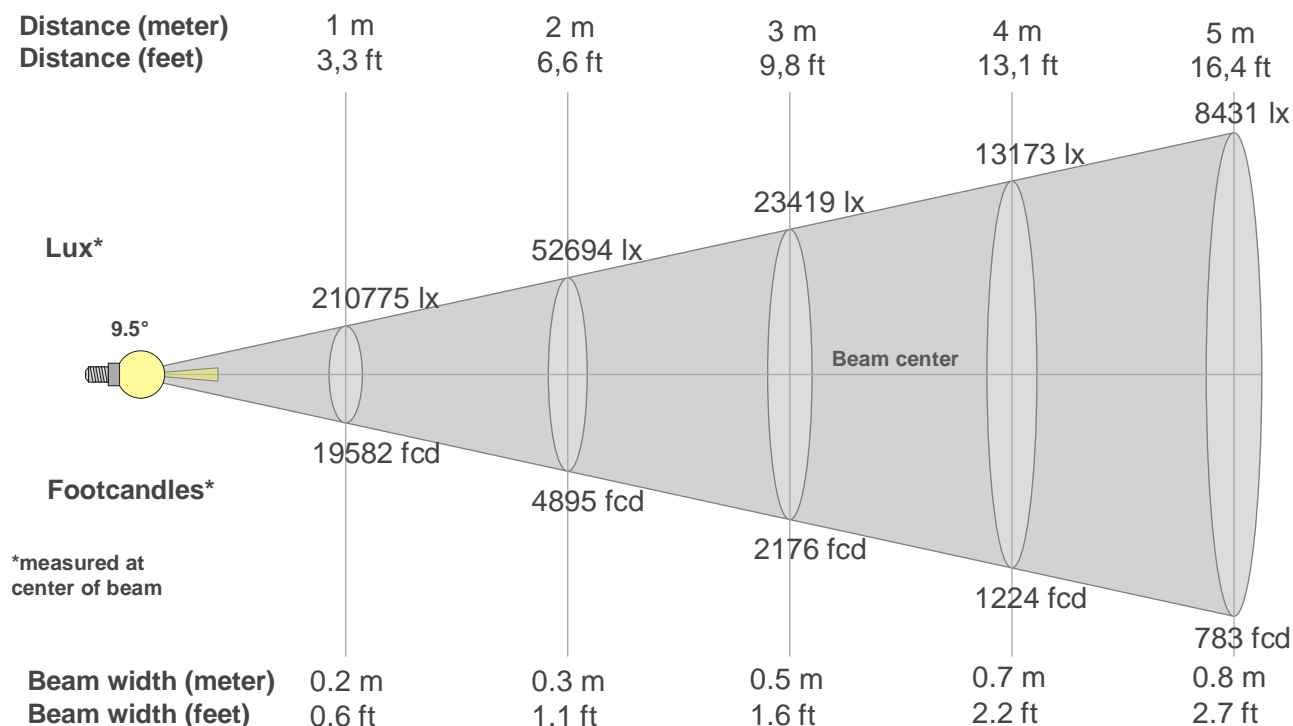
Fidelity index Rf

**Rg 101.6**

Gamut index Rg

Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	83	7%	-1%
2	92	0%	-3%
3	91	-1%	-1%
4	85	1%	5%
5	82	-4%	2%
6	89	2%	1%
7	79	-12%	0%
8	85	-8%	2%
9	76	-10%	12%
10	73	-7%	23%
11	58	0%	22%
12	81	1%	16%
13	77	8%	15%
14	83	8%	8%
15	78	21%	3%
16	89	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
210775lx	52694lx	23419lx	13173lx	8431lx	5855lx	4302lx	3293lx	2602lx	2108lx	1742lx	1464lx	1247lx	1075lx	937lx	823lx	729lx	651lx	584lx	527lx
19581.6 fcd	4895.4 fcd	2175.7 fcd	1223.9 fcd	783.3 fcd	543.9 fcd	399.6 fcd	306 fcd	241.7 fcd	195.8 fcd	161.8 fcd	136 fcd	115.9 fcd	99.9 fcd	87 fcd	76.5 fcd	67.8 fcd	60.4 fcd	54.2 fcd	49 fcd

**Intensities in 0° c-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
211K	204K	184K	158K	128K	99K	72K	51K	34K	21K	13K	8K	6K	4K	3K	2K	1K	1K	1K	1K
100%	97%	88%	75%	61%	47%	34%	24%	16%	10%	6%	4%	3%	2%	1%	1%	1%	0%	0%	0%

**Intensities in 90° c-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
211K	204K	184K	158K	128K	99K	72K	51K	34K	21K	13K	8K	6K	4K	3K	2K	1K	1K	1K	1K
100%	97%	88%	75%	61%	47%	34%	24%	16%	10%	6%	4%	3%	2%	1%	1%	1%	0%	0%	0%

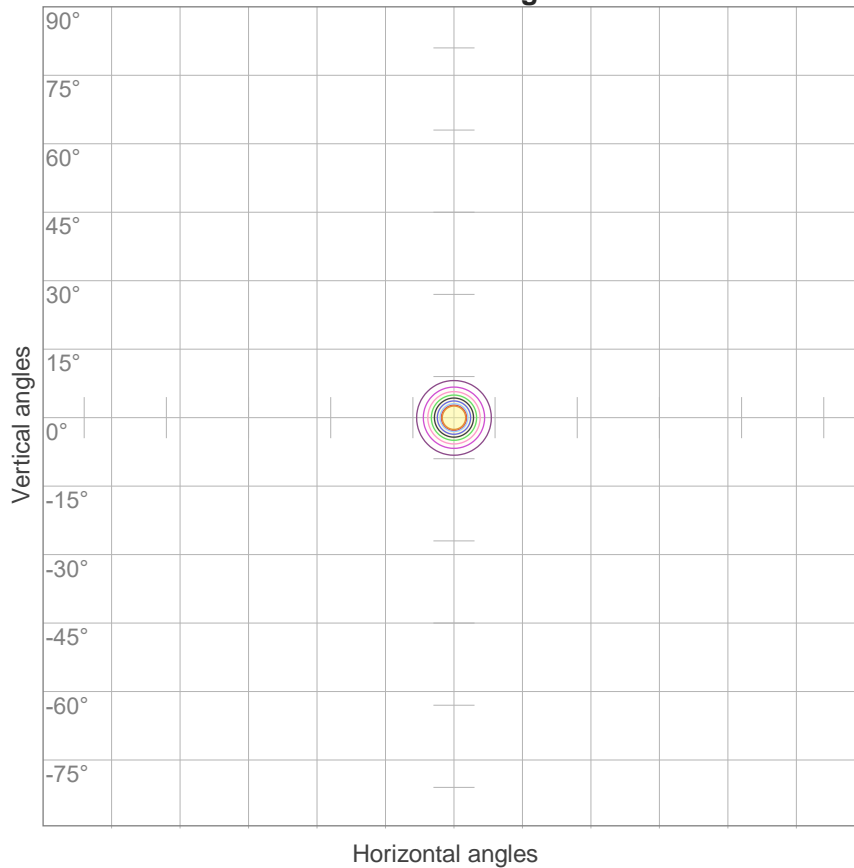
**Intensities in 180° c-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
211K	204K	185K	158K	128K	99K	74K	52K	36K	23K	14K	9K	6K	4K	3K	2K	1K	1K	1K	1K
100%	97%	88%	75%	61%	47%	35%	25%	17%	11%	7%	4%	3%	2%	1%	1%	1%	1%	0%	0%

**Intensities in 270° c-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
211K	204K	185K	158K	128K	99K	74K	52K	36K	23K	14K	9K	6K	4K	3K	2K	1K	1K	1K	1K
100%	97%	88%	75%	61%	47%	35%	25%	17%	11%	7%	4%	3%	2%	1%	1%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
9.5°	18.2°	24.4°	100.0%	100.0%

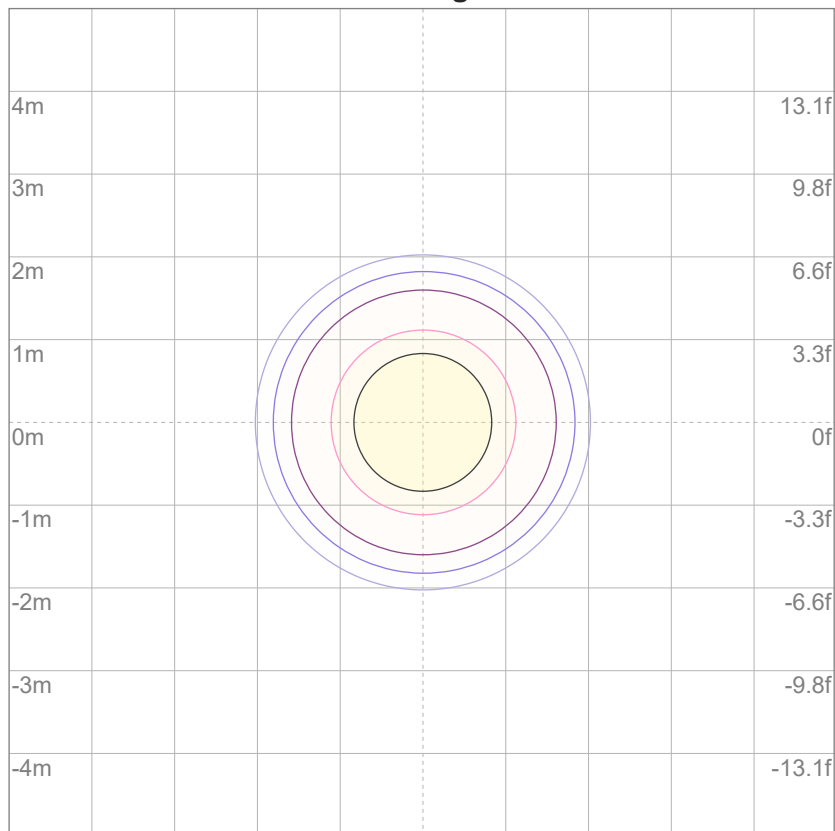
**iso-candela diagram**


10%	21077 cd
20%	42155 cd
30%	63232 cd
40%	84310 cd
50%	105387 cd
60%	126465 cd
70%	147542 cd
80%	168620 cd
90%	189697 cd

**Conditions:**

Number of c-planes: 2

Candela at center: 210775 cd

**iso-lux diagram**


3%	63.2 lx
5%	105 lx
10%	211 lx
30%	632 lx
50%	1054 lx

**Conditions:**

Number of c-planes: 2

Lux at center: 2108 lx

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

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
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 7353 lm total luminous flux										

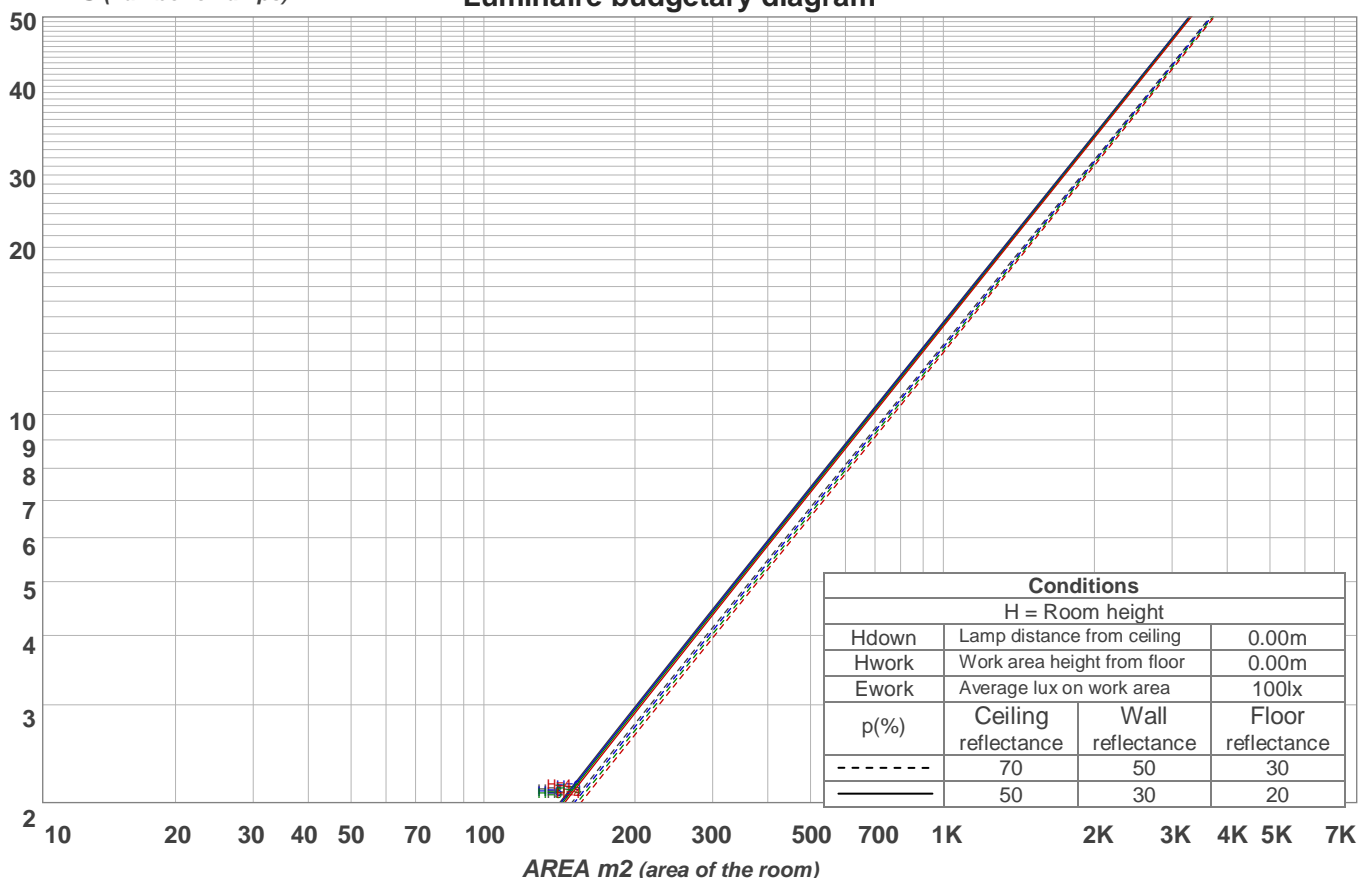
Viso Systems Aps – Copenhagen, Denmark – [www.visosystems.com](http://www.visosystems.com)

## 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	116	115	114	112	114	113	112	111	109	108	107	105	105	104	102	102	101	100
2	114	112	110	108	112	110	108	107	107	106	105	104	103	102	102	101	100	99
3	112	109	107	105	111	108	106	104	106	104	103	104	102	101	102	101	100	99
4	111	107	105	103	110	106	104	102	105	103	101	103	102	100	101	100	99	98
5	109	106	103	102	108	105	103	101	104	102	100	102	101	100	101	100	99	98
6	108	105	102	100	107	104	102	100	103	101	99	102	100	99	101	99	98	98
7	107	104	101	99	106	103	101	99	102	100	99	101	100	98	100	99	98	97
8	106	103	100	99	106	102	100	99	101	100	98	101	99	98	100	99	98	97
9	105	102	100	98	105	101	99	98	101	99	98	100	99	97	100	98	97	97
10	105	101	99	98	104	101	99	97	100	99	97	100	98	97	99	98	97	96

LAMPS (number of lamps)

## Luminaire budgetary diagram



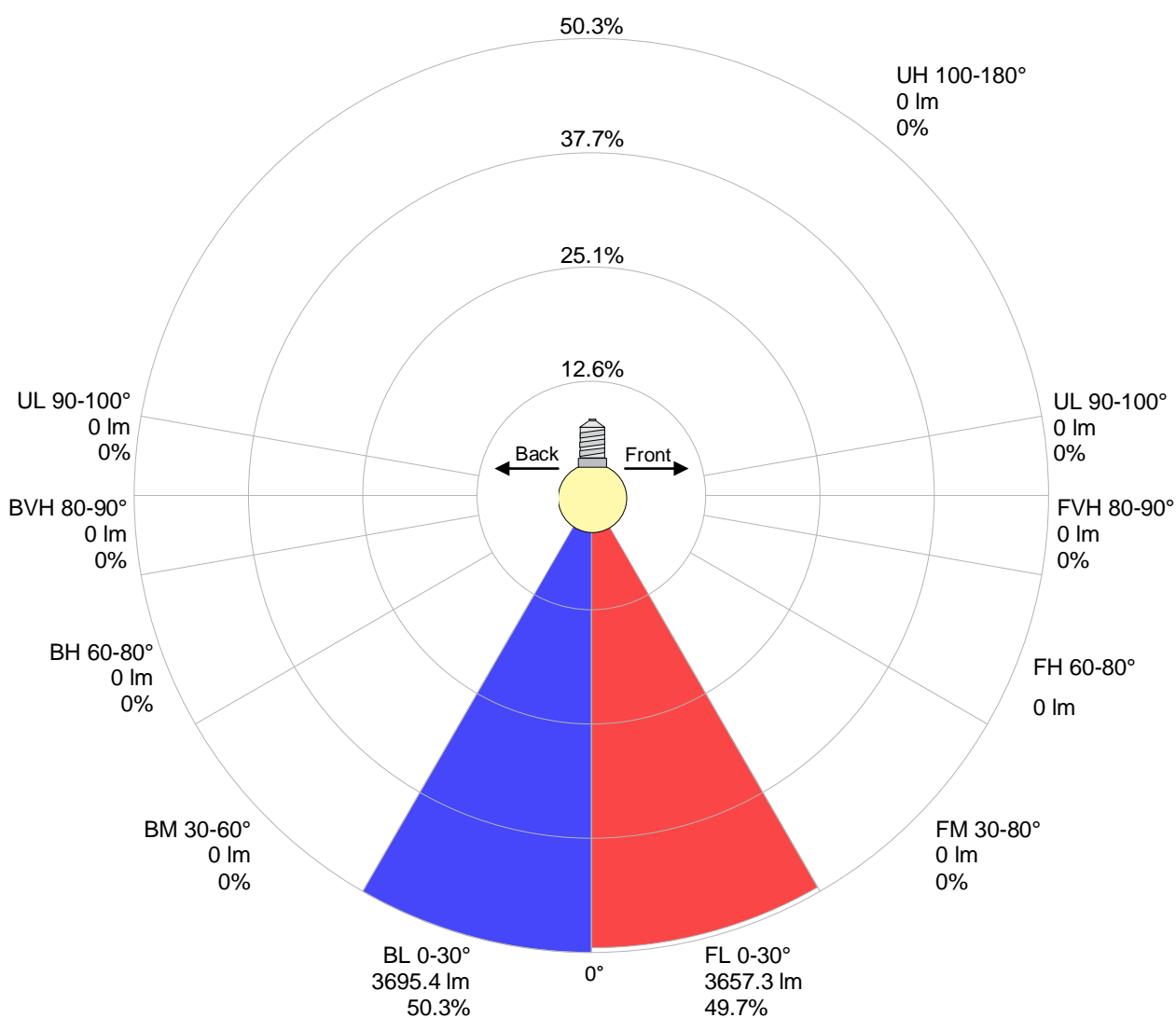
## Zonal Lumen Summary

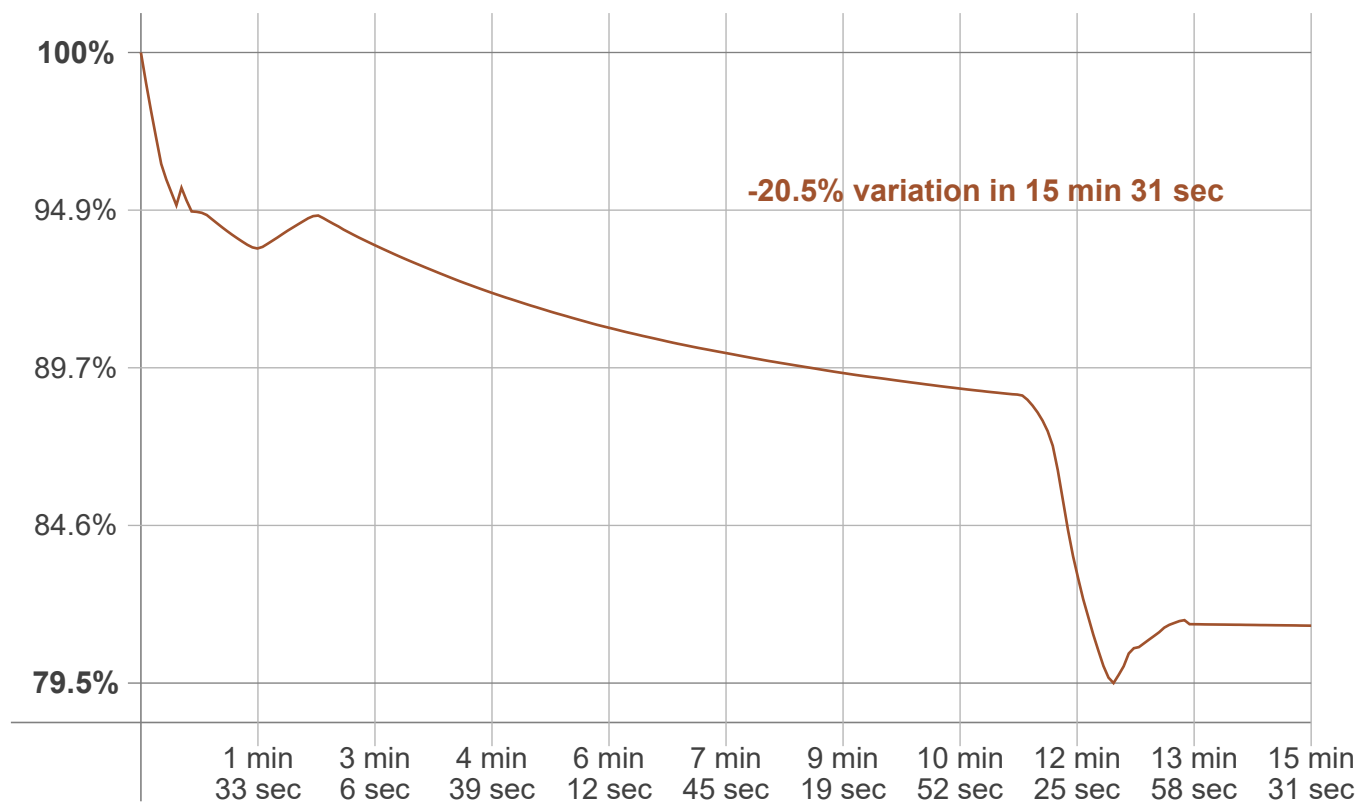
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
{LUM0-10}	809 lm	8.73 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

LCS table

BUG rating:	B4 U1 G0	
Forward light	Lumens	Lumens %
Low(0-30):	3657.3	49.7%
Medium(30-60):	0	0%
High(60-80):	0	0%
Very high(80-90):	0	0%
Back light		
Low(0-30):	3695.4	50.3%
Medium(30-60):	0	0%
High(60-80):	0	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	-20.5%

**Warmup conditions**

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

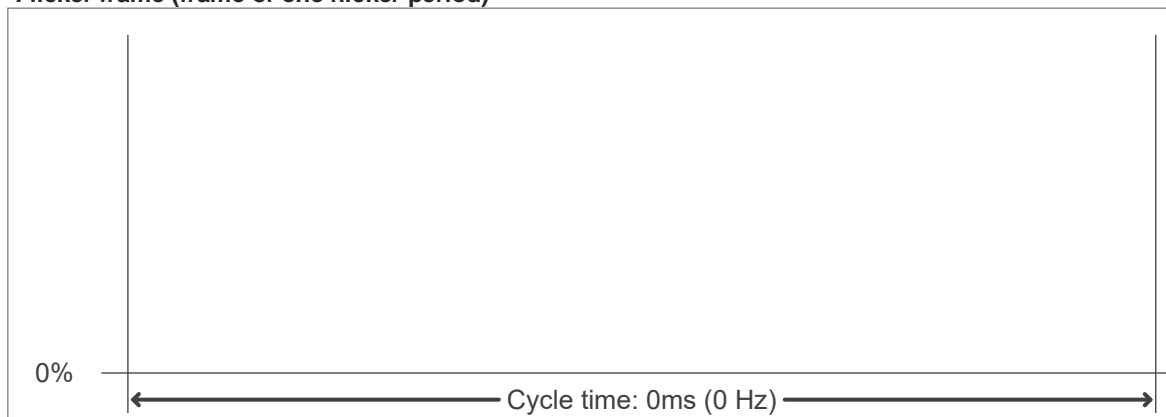
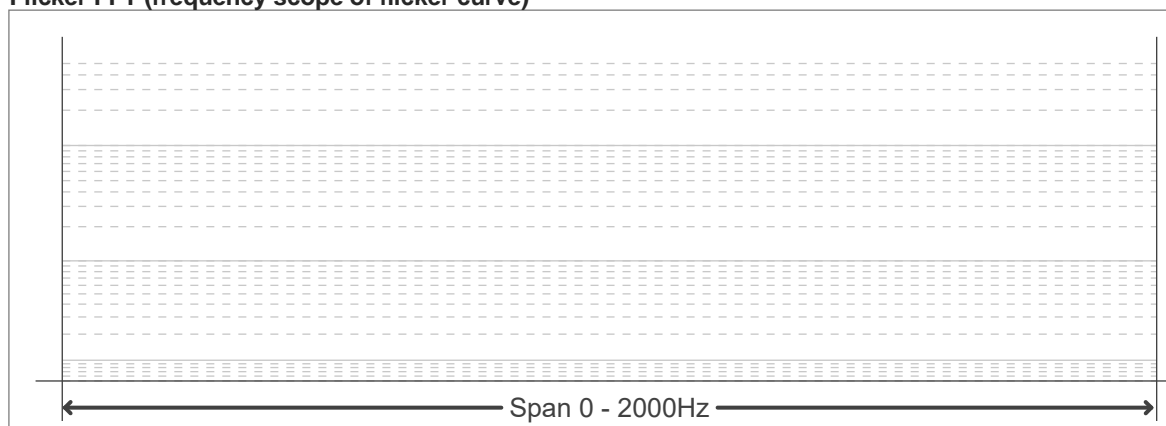
**Color temperature change**

CCT start	CCT change	CCT end
430 K	+13757 K	14187 K

**Output change**

Output start	Output change	Output end
8839 lm	-1486 lm	7353 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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