

## Luminaria para interior



### Dimensiones (mm)

**Diámetro:** Ø305.



### Código

**KF1016**

### Descripción

Luminaria para descolgar, diseñada con módulos de LED. Compuesta por acrílico opal.




### Materiales y acabado

Cuerpo en aluminio inyectado, con acabado en pintura poliéster electrostática en polvo.

### Color

Blanco.

### Características técnicas

<b>LED</b>	 103°	 30,000h	<b>IP 20</b>	<b>IK 02</b>
<b>PF 0,99</b>	<b>THD &lt;10%</b>	<b>°C 0-55</b>	<b>V 120-277</b>	

### Fuente de luz

Módulos de LED.

Potencia Nominal	CRI	K	Lm / W	Lm de Salida
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26W	>80	3000	71	1648
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### Características de fuente de luz

- Color temperatura disponible 3000K (cálido).
- Marca LED: EVERLIGHT. Marca Driver: AREEK.
- Potencia de Salida: 23,1 W.

Light efficiency:



Light quality:



Color temperature:



Output: 1648 lm

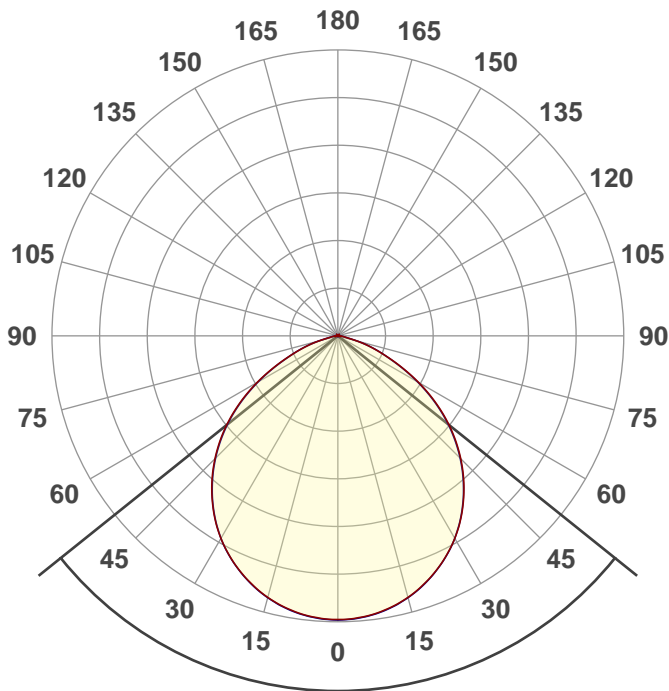
Peak: 683 cd

Power: 23,1 W

PF: 0,99



Product name:  
E0362-KF1016



Beam angle **102,6°**



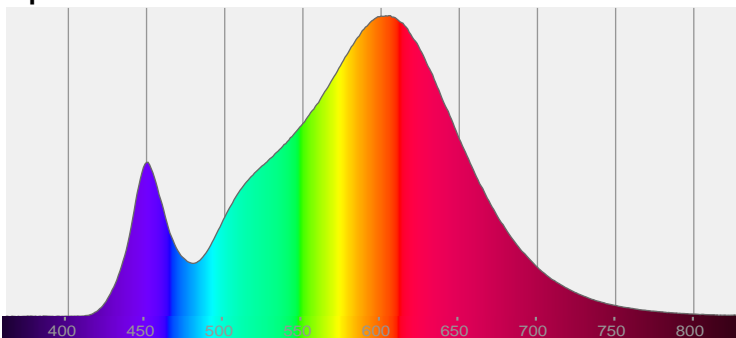
CIE 1931  
x: 0,433  
y: 0,404

THD Values:

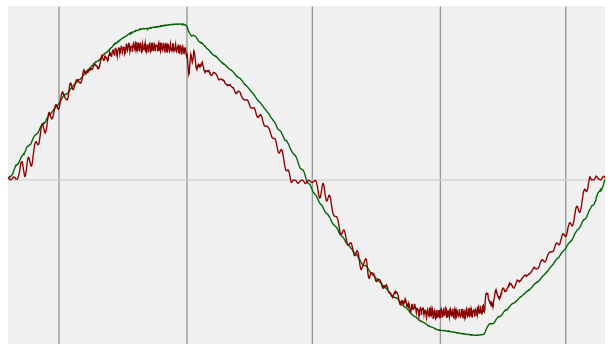
Voltage: 2,53%

Current: 6,29%

Spectra

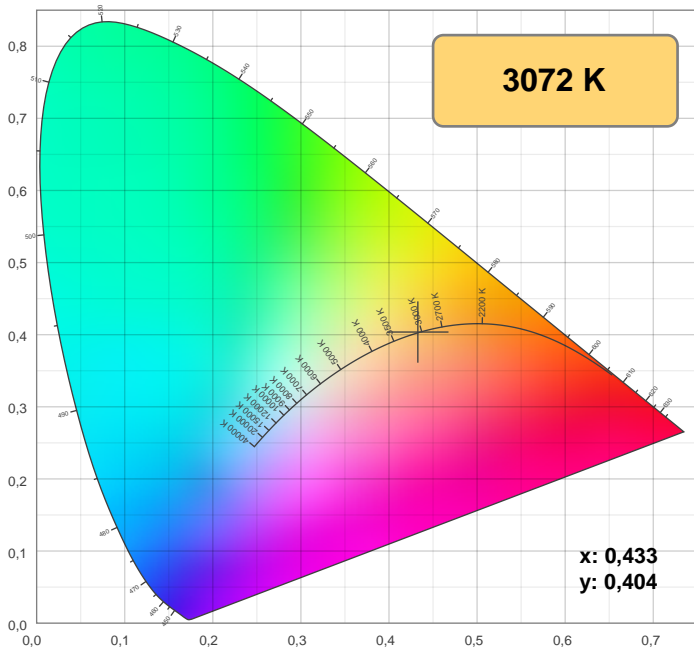


Power



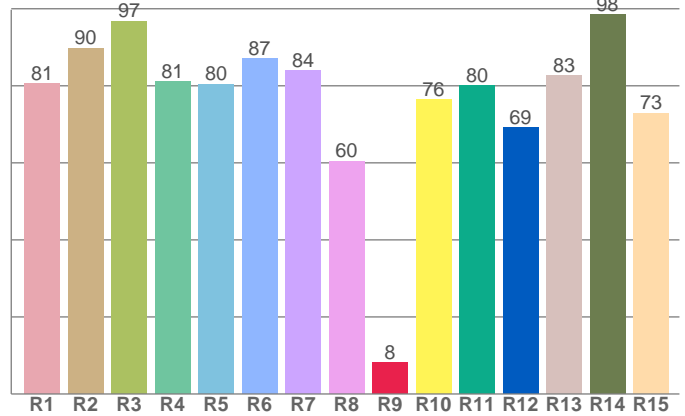
Voltage: 115 V  
Current: 0,202 A  
Frequency: 59,9 Hz

## Color details



CIE 1931

CRI: 82,5 (R1-R8)

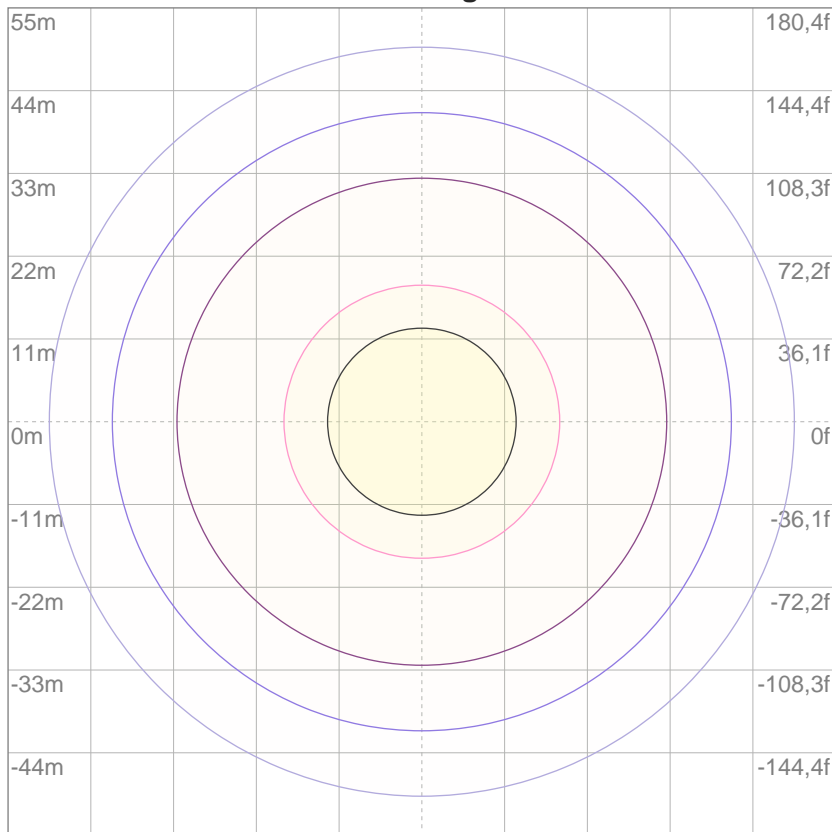


CRI R values, only R1-R8 are used to calculate final CRI value

R	R1	R2	R3	R4	R5	R6	R7	R8	9	R10	R11	R12	R13	R14	R15
Value	80,5	89,7	96,8	81,0	80,4	87,1	83,9	60,4	8,1	76,4	80,0	69,2	82,6	98,5	72,9

## ISO Diagrams

### ISO lux diagram



Mounting height: 10 meters (33 f)

3%	0,205 lx
5%	0,341 lx
10%	0,683 lx
30%	2,05 lx
50%	3,41 lx

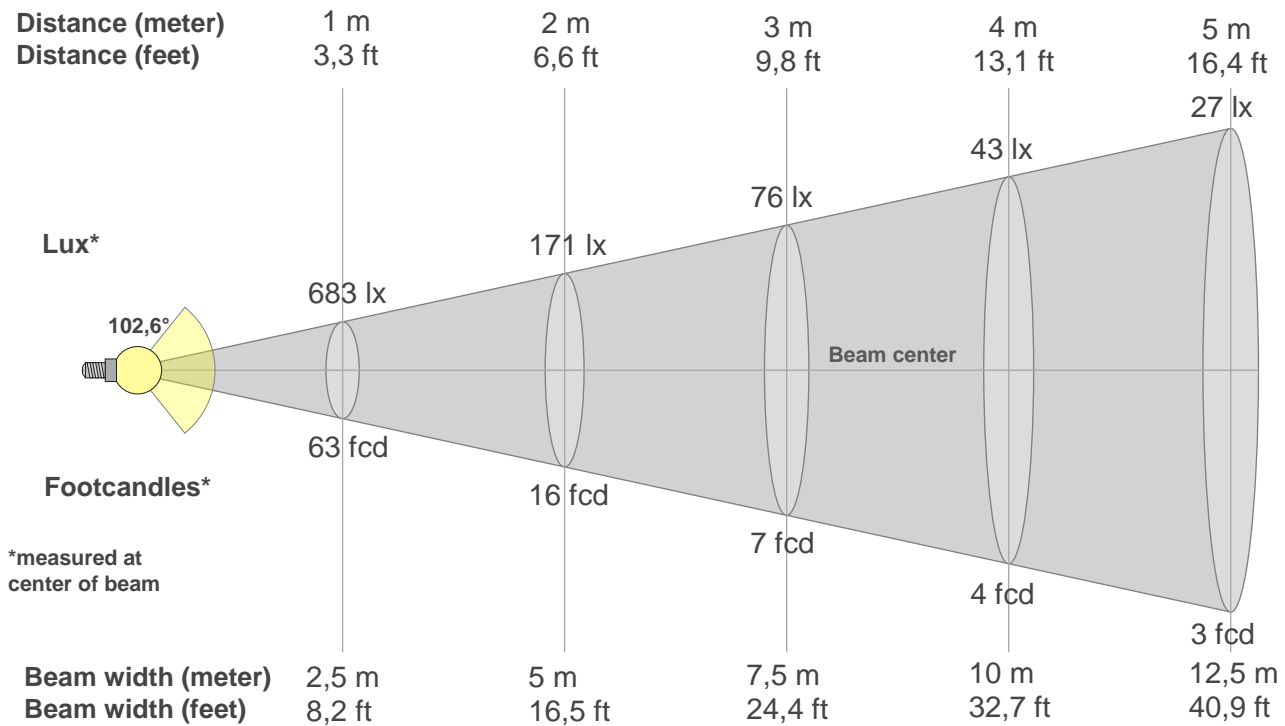
Conditions:

Number of c-planes: 4

Lux at center: 6,83 lx

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

## 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
683lx	171lx	76lx	43lx	27lx	19lx	14lx	11lx	8lx	7lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx
63,4fcd	15,9fcd	7fcd	4fcd	2,5fcd	1,8fcd	1,3fcd	1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd

### Intensities in 0° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
683	678	668	651	627	598	562	520	472	418	359	294	224	155	96	47	17	8	0	0
100%	99%	98%	95%	92%	88%	82%	76%	69%	61%	53%	43%	33%	23%	14%	7%	3%	1%	0%	0%

### Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
683	679	669	652	628	598	562	519	470	416	356	291	221	152	97	46	18	9	0	0
100%	100%	98%	95%	92%	88%	82%	76%	69%	61%	52%	43%	32%	22%	14%	7%	3%	1%	0%	0%

### Intensities in 180° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
683	678	668	651	627	598	562	520	472	418	359	294	224	155	96	47	17	8	0	0
100%	99%	98%	95%	92%	88%	82%	76%	69%	61%	53%	43%	33%	23%	14%	7%	3%	1%	0%	0%

### Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
683	679	669	652	628	598	562	519	470	416	356	291	221	152	97	46	18	9	0	0
100%	100%	98%	95%	92%	88%	82%	76%	69%	61%	52%	43%	32%	22%	14%	7%	3%	1%	0%	0%

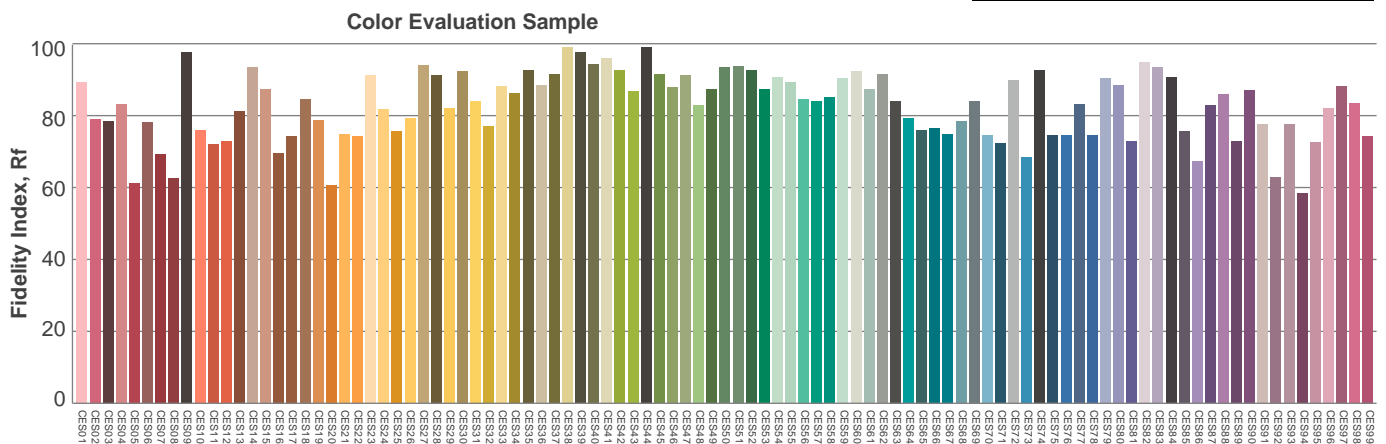
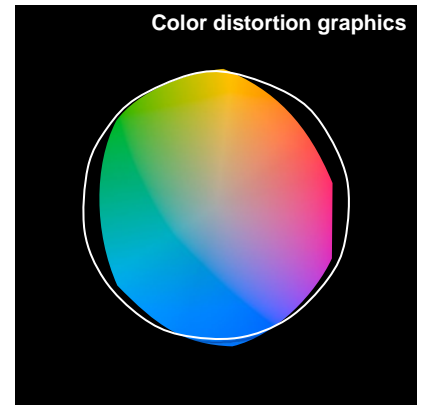
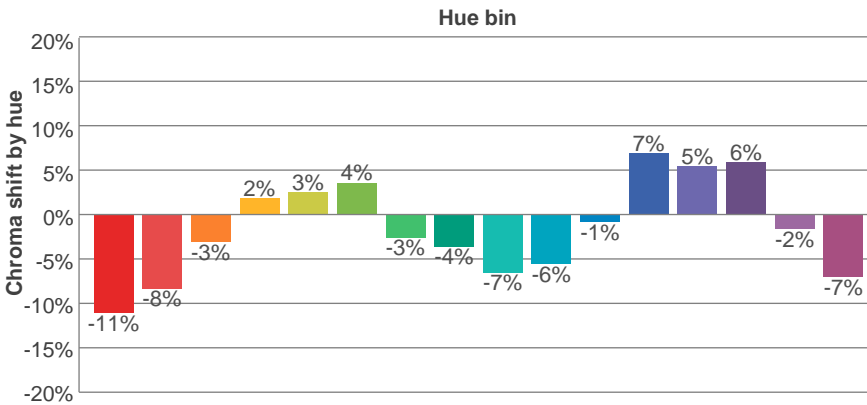
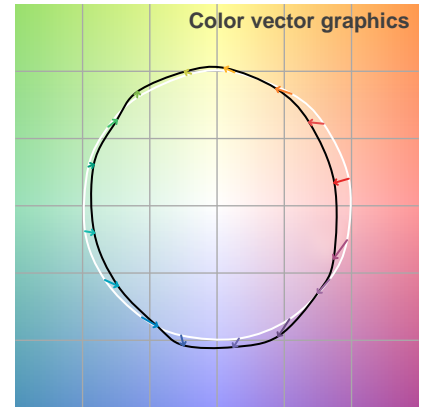
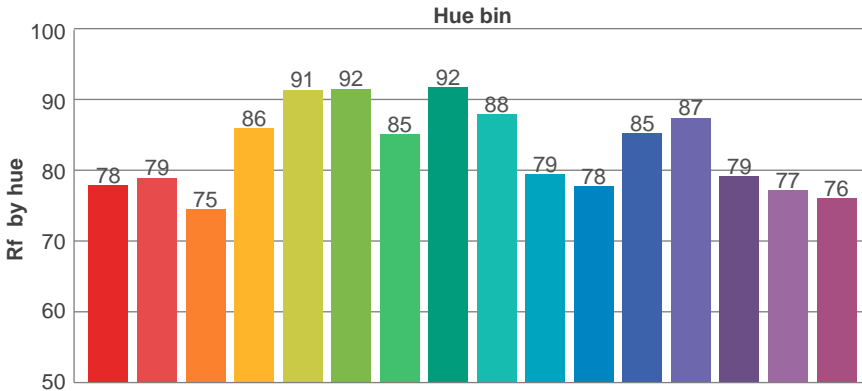
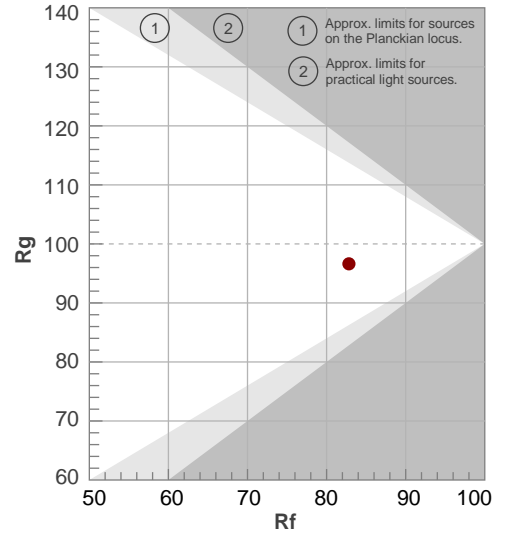
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
102,6°	145,7°	160,6°	86,7%	61,4%

TM30 details

**Rf 82,8**  
Fidelity index Rf

**Rg 96,6**  
Gammut index Rg

Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	78	-11%	-1%
2	79	-8%	7%
3	75	-3%	12%
4	86	2%	8%
5	91	3%	4%
6	92	4%	-2%
7	85	-3%	-8%
8	92	-4%	-2%
9	88	-7%	3%
10	79	-6%	9%
11	78	-1%	13%
12	85	7%	3%
13	87	5%	-5%
14	79	6%	-14%
15	77	-2%	-13%
16	76	-7%	-15%



# 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	20,4	21,7	20,7	21,9	22,1	20,4	21,6	20,7	21,8	22,1
	3H	21,2	22,3	21,5	22,6	22,8	21,2	22,3	21,5	22,5	22,8
	4H	21,4	22,4	21,7	22,7	23,0	21,3	22,4	21,7	22,6	22,9
	6H	21,4	22,3	21,7	22,6	22,9	21,3	22,3	21,7	22,6	22,9
	8H	21,4	22,3	21,7	22,6	22,9	21,3	22,2	21,7	22,5	22,9
	12H	21,3	22,2	21,7	22,5	22,9	21,3	22,2	21,7	22,5	22,8
4H	2H	20,9	21,9	21,2	22,2	22,5	20,8	21,9	21,2	22,1	22,4
	3H	21,8	22,6	22,2	23,0	23,3	21,7	22,6	22,1	22,9	23,3
	4H	22,0	22,7	22,4	23,1	23,5	22,0	22,7	22,4	23,1	23,4
	6H	22,0	22,7	22,4	23,1	23,5	22,0	22,6	22,4	23,0	23,4
	8H	22,0	22,6	22,5	23,0	23,4	22,0	22,6	22,4	23,0	23,4
	12H	22,0	22,6	22,5	23,0	23,4	22,0	22,5	22,4	22,9	23,4
8H	4H	22,0	22,6	22,5	23,0	23,4	22,0	22,6	22,4	23,0	23,4
	6H	22,1	22,6	22,5	23,0	23,5	22,1	22,5	22,5	23,0	23,4
	8H	22,1	22,5	22,6	23,0	23,5	22,1	22,5	22,6	23,0	23,4
	12H	22,1	22,5	22,6	23,0	23,5	22,1	22,5	22,6	22,9	23,4
12H	4H	22,0	22,5	22,5	23,0	23,4	22,0	22,5	22,4	22,9	23,4
	6H	22,1	22,5	22,5	22,9	23,4	22,0	22,5	22,5	22,9	23,4
	8H	22,1	22,5	22,6	22,9	23,4	22,1	22,4	22,6	22,9	23,4
Variation of the observer position for the luminaire distance S											
S = 1,0H	+0,2 / -0,3					+0,2 / -0,3					
S = 1,5H	+0,5 / -1,0					+0,6 / -1,0					
S = 2,0H	+1,2 / -2,0					+1,2 / -2,0					
Standard table	BK02					BK02					
Correction summand	4,1					4,1					
Corrected glare indices referring to 1648 lm total luminous flux											

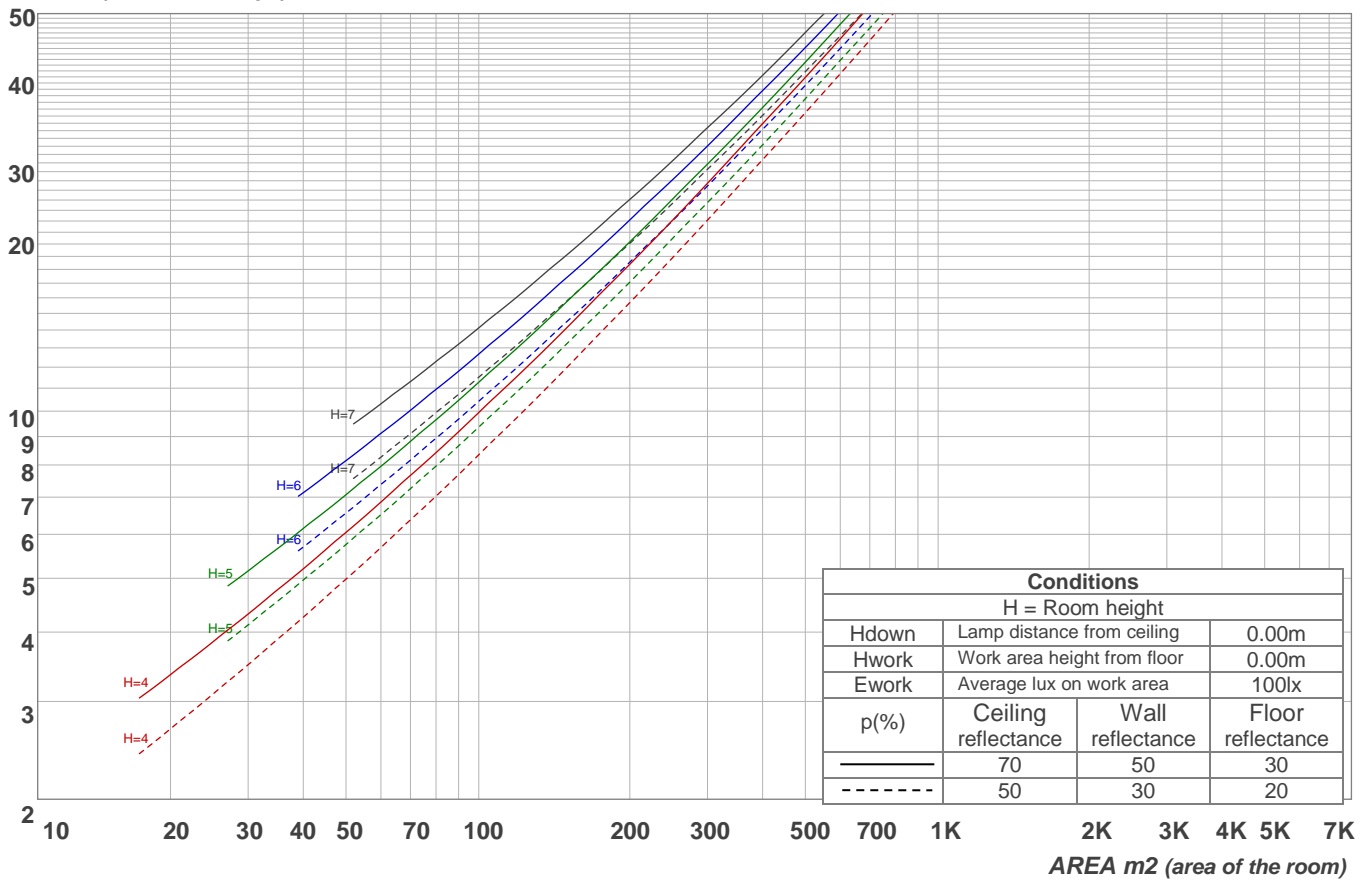
# Light planning

## 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
<b>RCR</b>	<b>(RCR: Room Cavity Ratio)</b>																	
	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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	85	74	66	60	83	73	65	59	70	64	59	68	62	58	66	61	57	55
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48
6	73	60	52	46	71	59	51	45	58	50	45	56	50	45	54	49	44	42
7	68	55	46	41	66	54	46	40	52	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34
9	59	46	38	33	58	45	38	33	44	37	33	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

LAMPS (number of lamps)

## Luminaire budgetary diagram

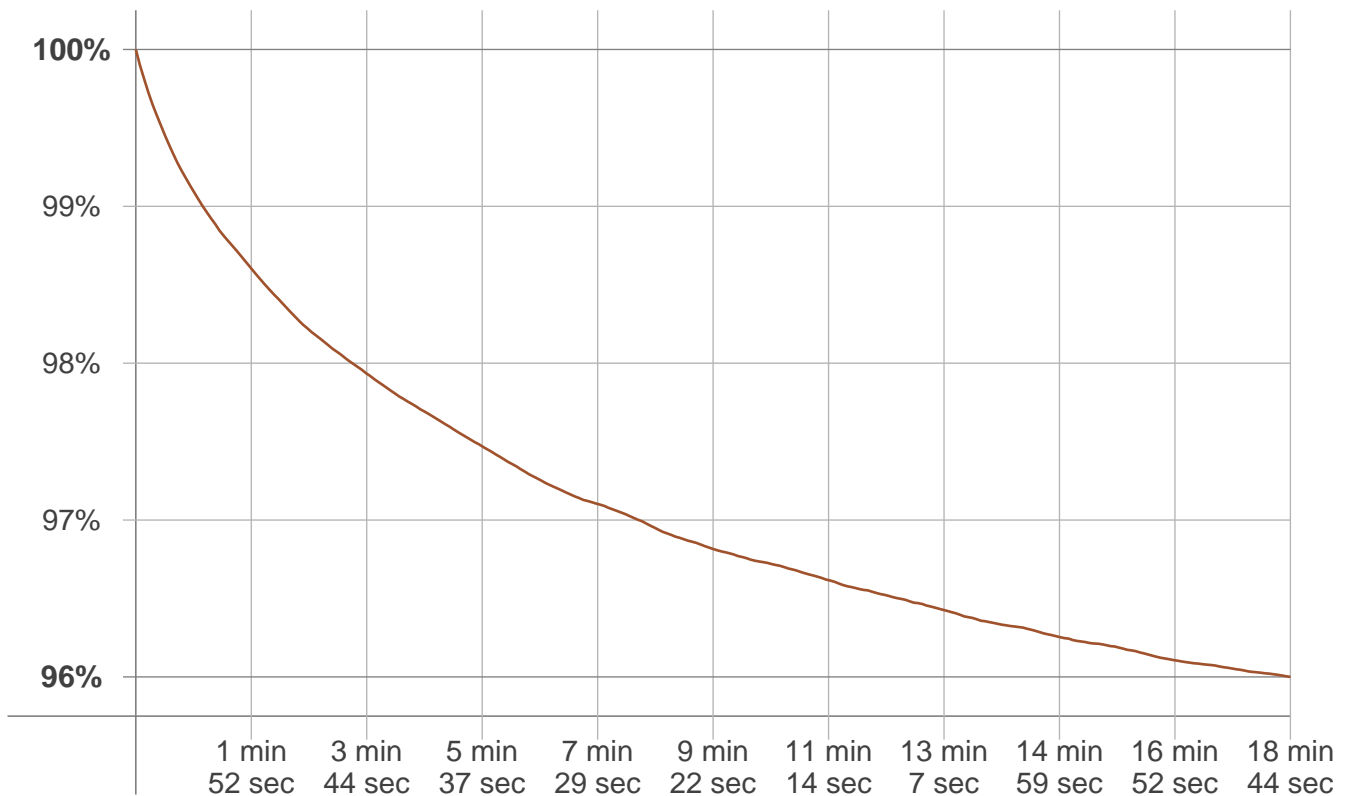


## Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
64,5 lm	184 lm	275 lm	324 lm	321 lm	260 lm	153 lm	52,4 lm	9,10 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,298 lm	0,428 lm	0,549 lm	0,625 lm	0,648 lm	0,605 lm	0,498 lm	0,341 lm	0,124 lm

# Stabilization

Warmup curve



Warmup result

Warmup time:	18 min 44 sec
Warmup variation	-4,0%

Warmup conditions

Stable period:	15 min
Stable change max:	2,0%
Minimum time:	15 min

Color temperature change

CCT start	CCT change	CCT end
3060 K	+12 K	3072 K

Output change

Output start	Output change	Output end
1711 lm	-63 lm	1648 lm