

Código

PLED40-60x60-4K-AM

Descripción

Luminaria tipo panel Backlite, diseñada con módulo de LED. Montaje para empotrar. Perfil en aluminio con esquinas perfectas con un ángulo estrecho para proporcionar un acabado refinado y placa posterior que protege los LED y el óptico.




Materiales y acabado

Marco en aluminio extruido, placa posterior de hierro. Difusor en policarbonato opal, resistente al rayado y al impacto.

Color

Blanco.

Características técnicas

LED	 115°	 25,000h	IP 20	
PF 0,91	THD <30%	°C -10-40	V 100-277	

Fuente de luz

Módulo de LED.

Potencia Nominal	CRI	K	Lm / W	Lm de Salida
40W	>80	4000	86	3396

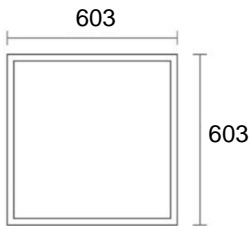
Características de fuente de luz

- Tipo de color temperatura 4000K (neutro).
- Sistema LED de larga duración.



Dimensiones (mm)

Largo: 603; Ancho: 603
Alto: 30.



Light efficiency:



Light quality:



Color temperature:



Output: 3396 lm

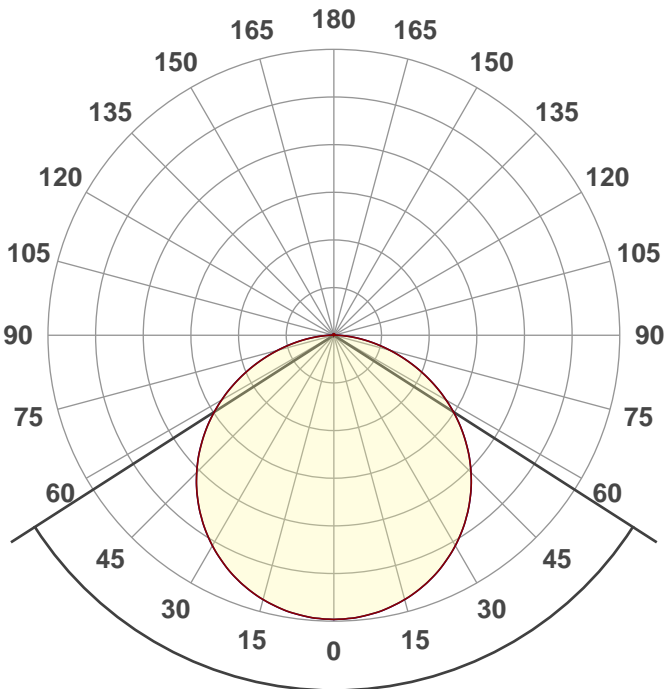
Peak: 1146 cd

Power: 39,7 W

PF: 0,91



Product name:
E0421-PLED40W-60x60-4K-AM



Beam angle **114,7°**



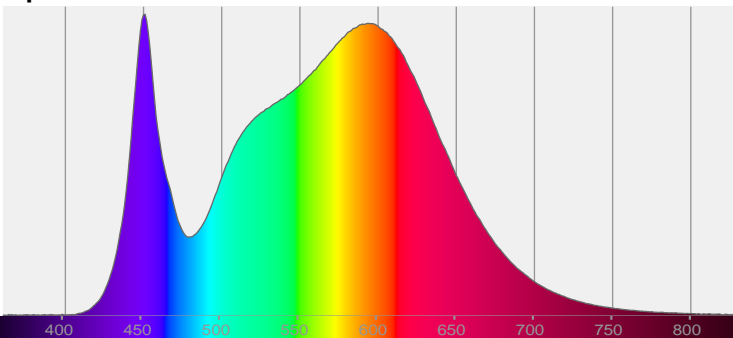
CIE 1931
x: 0,381
y: 0,377

THD Values:

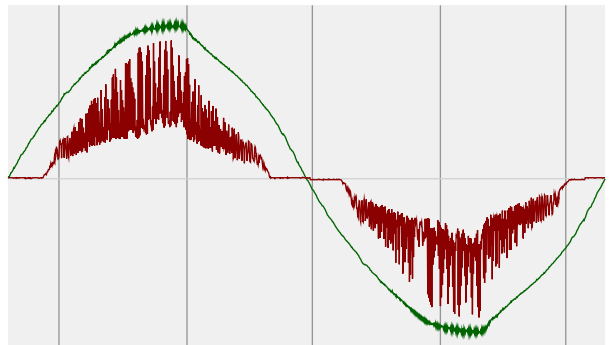
Voltage: 2,99%

Current: 24,56%

Spectra



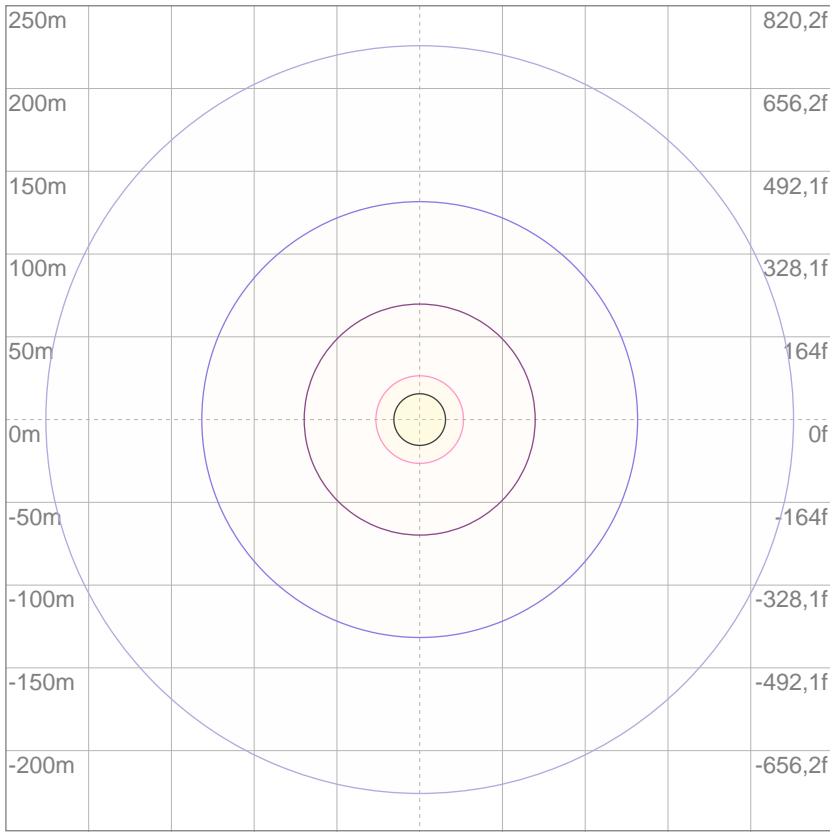
Power



Voltage: 113 V
Current: 0,385 A
Frequency: 60 Hz

ISO Diagrams

ISO lux diagram



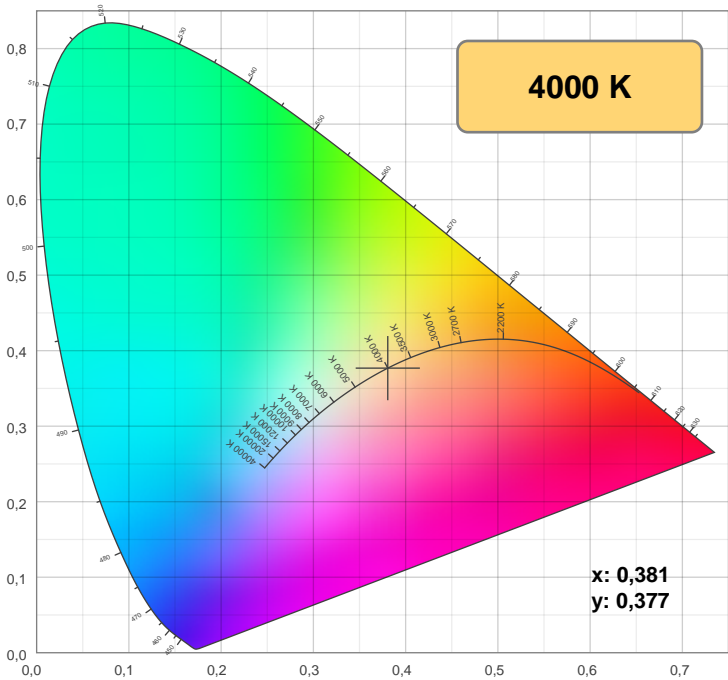
3%	0,344 lx
5%	0,573 lx
10%	1,15 lx
30%	3,44 lx
50%	5,73 lx

Conditions:
 Number of c-planes: 8
 Lux at center: 11,5 lx

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

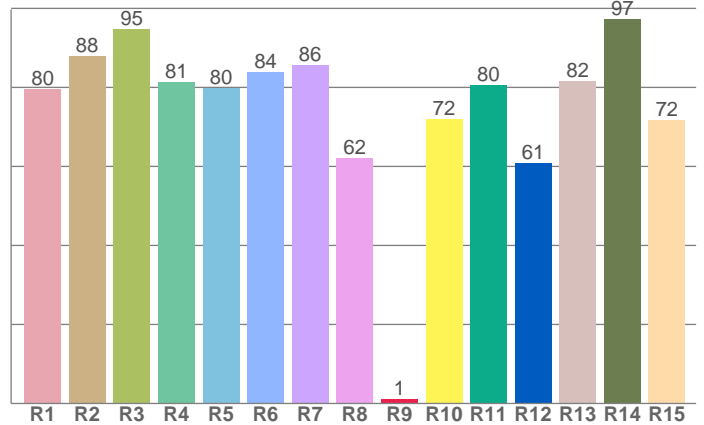
Mounting height: 10 meters (33 f)

Color details



CIE 1931

CRI: 81,9 (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
79,7	88,0	94,9	81,3	79,8	83,9	85,6	62,2	1,0	72,0	80,5	60,8	81,7	97,3	71,8

Color parameters

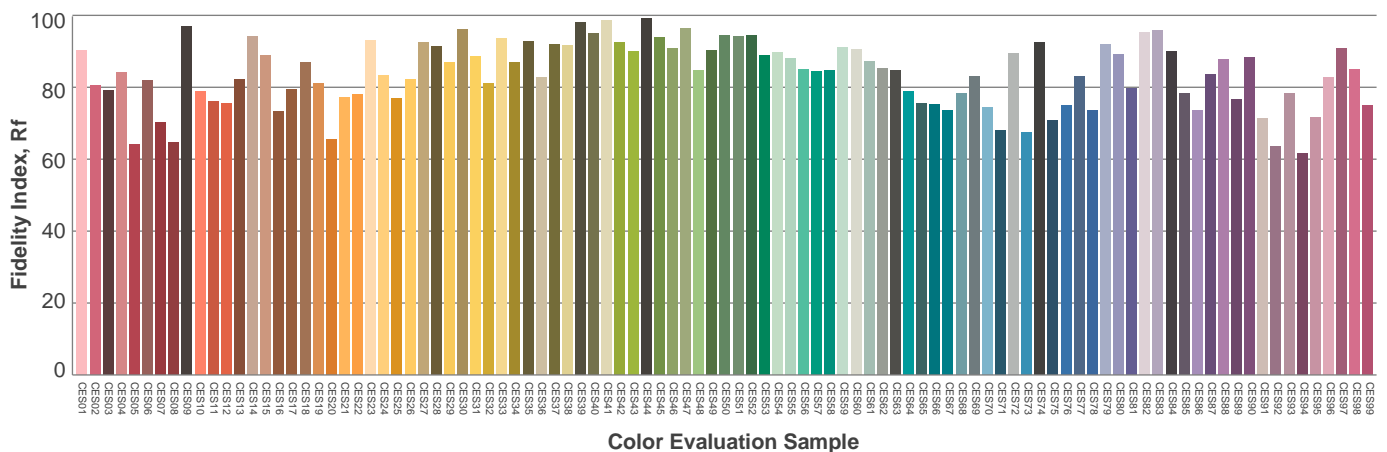
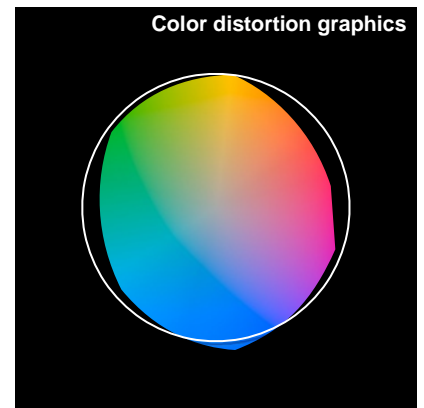
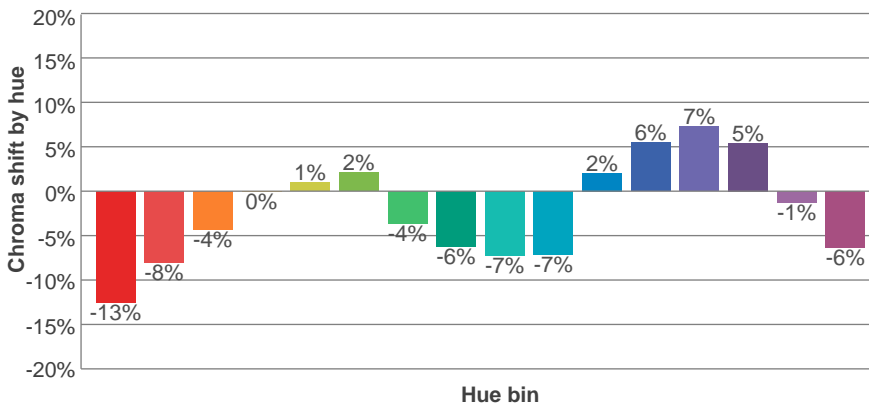
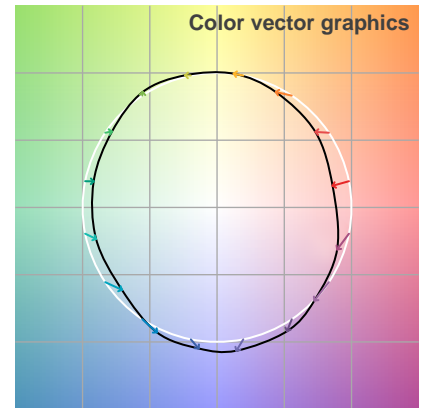
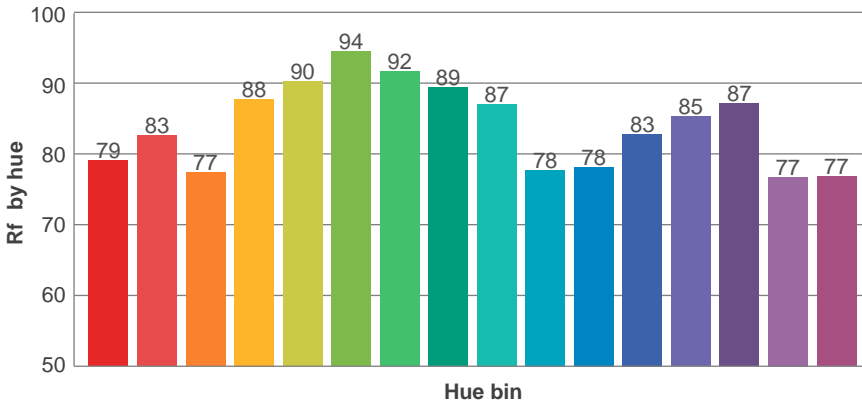
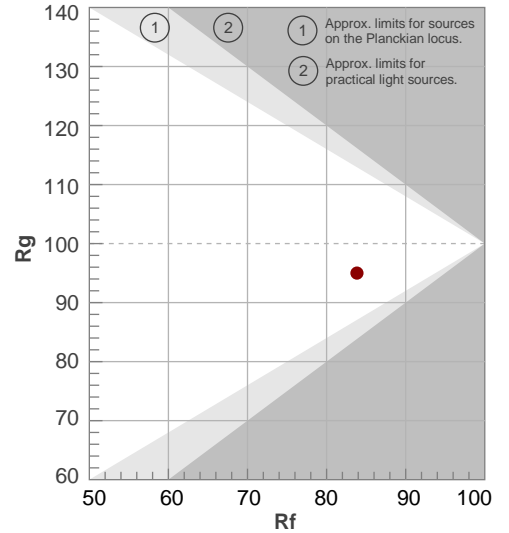
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
4000 K	81,9	1,0	83,8	95,0	81,8	0,381	0,377	0,224	0,337	0,0023

TM-30 details

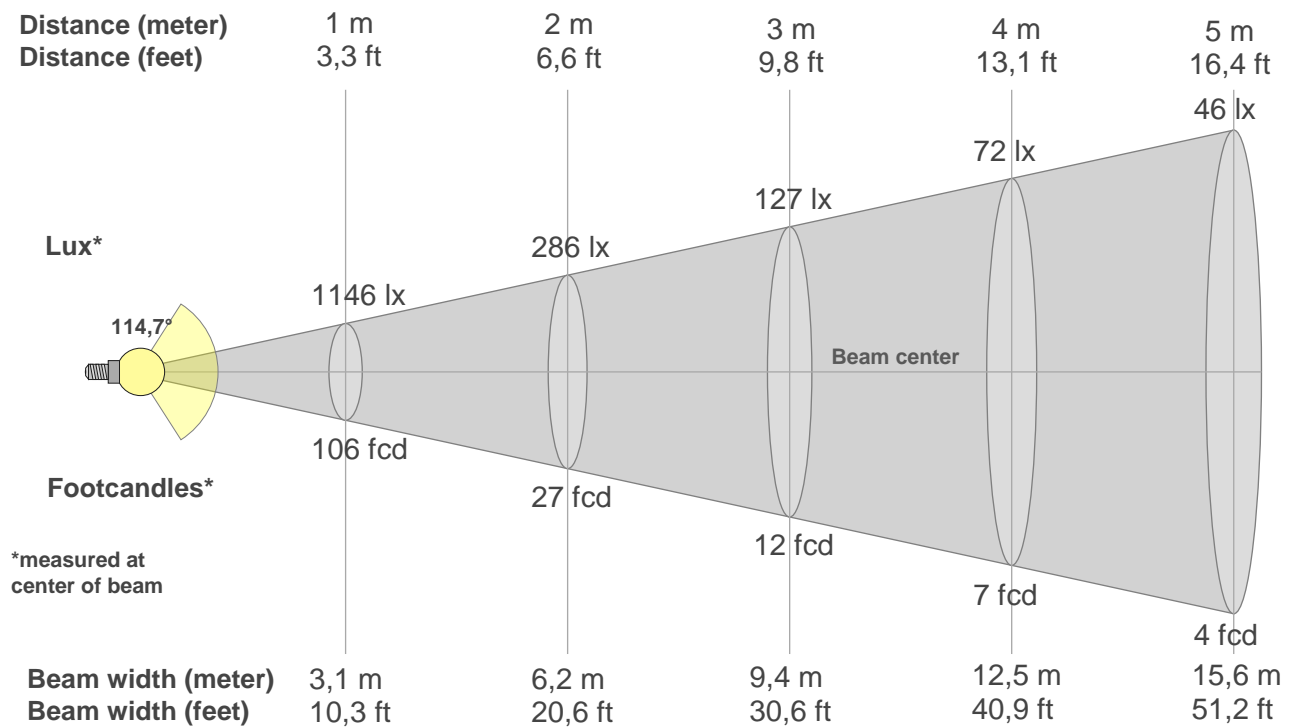
Rf 83,8
Fidelity index Rf

Rg 95,0
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	79	-13%	-1%
2	83	-8%	6%
3	77	-4%	11%
4	88	0%	7%
5	90	1%	4%
6	94	2%	-2%
7	92	-4%	-3%
8	89	-6%	-1%
9	87	-7%	5%
10	78	-7%	12%
11	78	2%	14%
12	83	6%	7%
13	85	7%	-7%
14	87	5%	-8%
15	77	-1%	-17%
16	77	-6%	-13%



Beam details



Beam intensities from 1-20m

{BEAM_INT_TABLE_START}

m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m	m
ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft
lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx	lx
fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd	fcd

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°
1146	1141	1127	1103	1071	1029	979	921	855	782	701	615	523	427	330	234	145	67	17	3
100%	100%	98%	96%	93%	90%	85%	80%	75%	68%	61%	54%	46%	37%	29%	20%	13%	6%	1%	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°
1146	1141	1127	1103	1071	1029	979	921	855	782	701	615	523	427	330	234	145	67	17	3
100%	100%	98%	96%	93%	90%	85%	80%	75%	68%	61%	54%	46%	37%	29%	20%	13%	6%	1%	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°
1146	1141	1127	1103	1071	1029	979	921	855	782	701	615	523	427	330	234	145	67	17	3
100%	100%	98%	96%	93%	90%	85%	80%	75%	68%	61%	54%	46%	37%	29%	20%	13%	6%	1%	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°
1146	1141	1127	1103	1071	1029	979	921	855	782	701	615	523	427	330	234	145	67	17	3
100%	100%	98%	96%	93%	90%	85%	80%	75%	68%	61%	54%	46%	37%	29%	20%	13%	6%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
114,7°	163,7°	176,5°	77,2%	52,2%

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	16,4	17,6	16,6	17,9	18,2	16,4	17,6	16,6	17,9	18,2
	3H	17,9	19,2	18,3	19,4	19,7	17,9	19,2	18,3	19,4	19,7
	4H	18,5	19,8	19,0	20,0	20,3	18,5	19,8	19,0	20,0	20,3
	6H	19,1	20,2	19,4	20,5	20,9	19,1	20,2	19,4	20,5	20,9
	8H	19,3	20,3	19,6	20,6	21,1	19,3	20,3	19,6	20,6	21,1
4H	12H	19,4	20,4	19,8	20,7	21,2	19,4	20,4	19,8	20,7	21,2
	2H	17,0	18,2	17,4	18,5	18,8	17,0	18,2	17,4	18,5	18,8
	3H	18,8	19,8	19,2	20,2	20,6	18,8	19,8	19,2	20,2	20,6
	4H	19,5	20,5	20,0	20,9	21,4	19,5	20,5	20,0	20,9	21,4
	6H	20,1	21,0	20,7	21,4	21,8	20,1	21,0	20,7	21,4	21,8
8H	8H	20,4	21,2	20,9	21,6	22,0	20,4	21,2	20,9	21,6	22,0
	12H	20,5	21,2	21,0	21,6	22,1	20,5	21,2	21,0	21,6	22,1
	4H	19,8	20,6	20,4	21,0	21,4	19,8	20,6	20,4	21,0	21,4
	6H	20,6	21,2	21,1	21,7	22,3	20,6	21,2	21,1	21,7	22,3
	8H	21,0	21,5	21,5	22,0	22,7	21,0	21,5	21,5	22,0	22,7
12H	12H	21,2	21,7	21,8	22,2	22,8	21,2	21,7	21,8	22,2	22,8
	4H	19,9	20,5	20,4	21,0	21,5	19,9	20,5	20,4	21,0	21,5
	6H	20,7	21,3	21,2	21,8	22,4	20,7	21,3	21,2	21,8	22,4
	8H	21,1	21,5	21,7	22,0	22,7	21,1	21,5	21,7	22,0	22,7
Variation of the observer position for the luminaire distance S											
S = 1.0H	0,1 / -0,1					0,1 / -0,1					
S = 1.5H	0,1 / -0,2					0,1 / -0,2					
S = 2.0H	0,4 / -0,4					0,4 / -0,4					
Standard table	n/a					n/a					
Correction summand	n/a					n/a					
Corrected glare indices referring to 3396 lm total luminous flux											

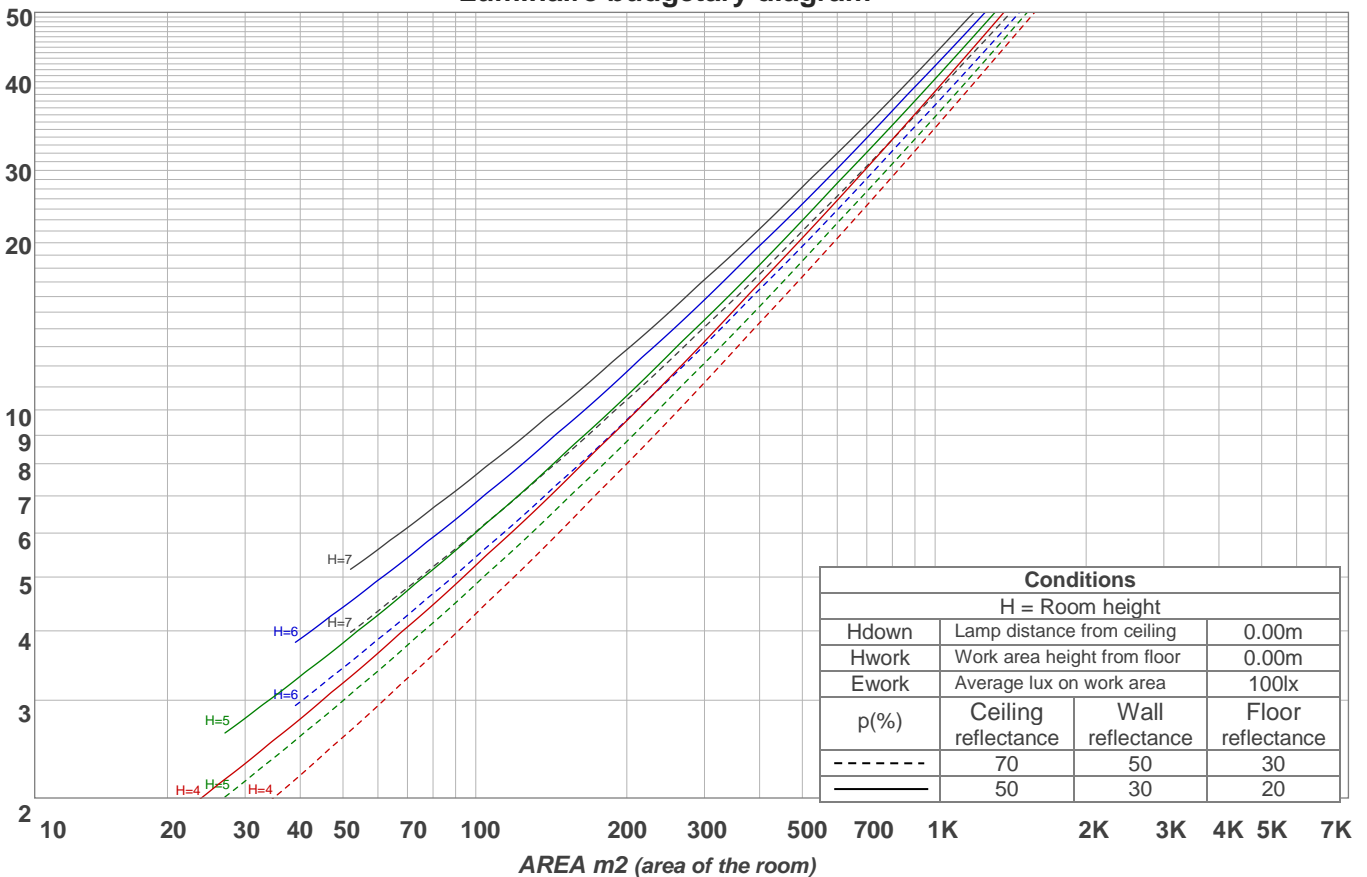
Light planning

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	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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	82			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68			
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	68	64	60	57			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	55	51	49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	43	39	37			
7	64	51	42	35	62	50	41	35	48	41	35	47	40	35	45	39	34	32			
8	60	46	38	32	58	45	37	31	44	37	31	43	36	31	41	35	31	29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	35	29	25	23			

LAMPS (number of lamps)

Luminaire budgetary diagram

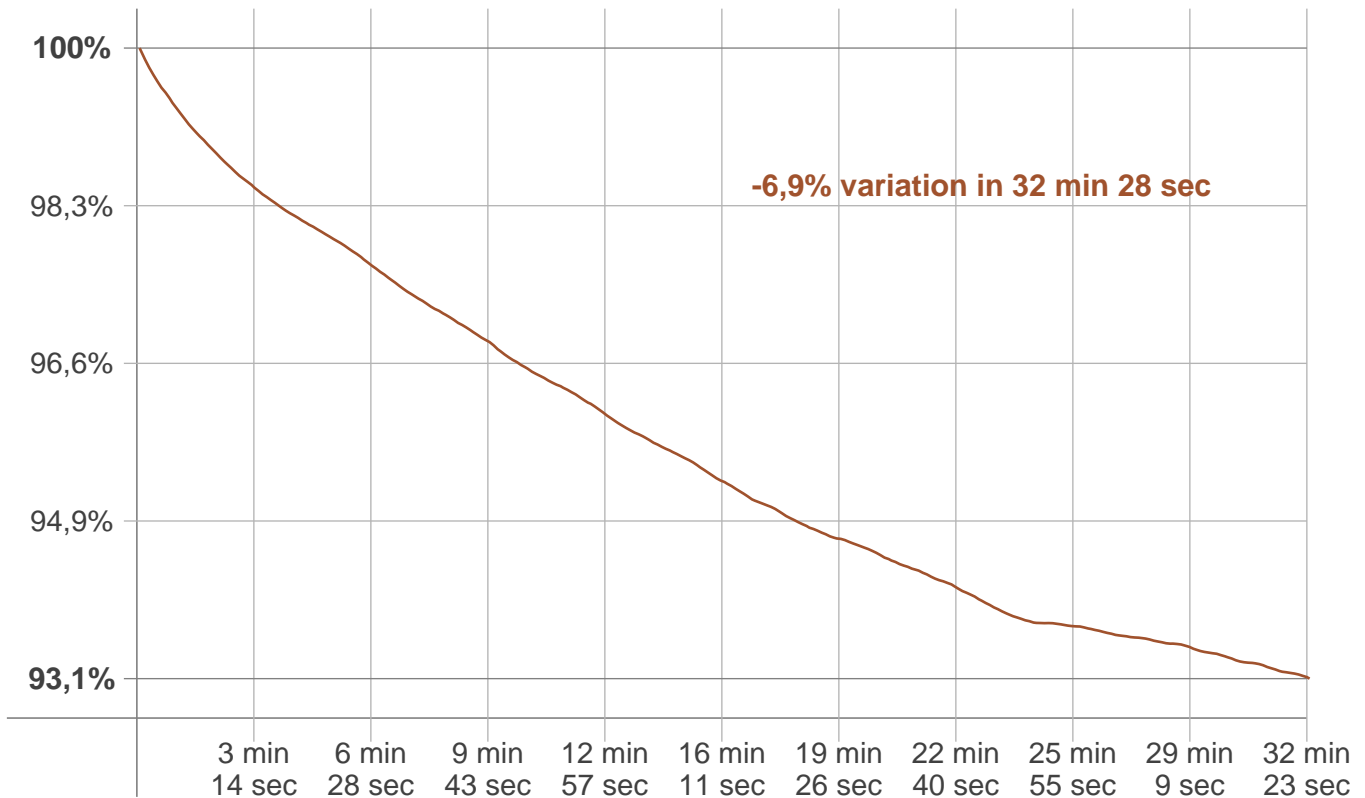


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
108 lm	311 lm	474 lm	576 lm	603 lm	549 lm	422 lm	248 lm	77,5 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5,32 lm	3,67 lm	3,58 lm	3,33 lm	2,95 lm	2,47 lm	1,88 lm	1,18 lm	0,409 lm

Stabilization

Warmup curve



Warmup result

Warmup time:	32 min 28 sec
Warmup variation	-6,9%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3986 K	+14 K	4000 K

Output change

Output start	Output change	Output end
3639 lm	-243 lm	3396 lm