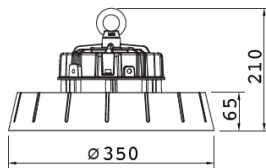




Dimensiones (mm)

Diámetro: Ø350; Alto: 210.



Código

MESSINA-240W

Descripción

Luminaria tipo Highbay, diseñada con módulo de LED integrado. Para descolgar en cielo. Compuesta por un difusor en policarbonato y un disipador en aluminio inyectado.



Materiales y acabado

Luminaria fabricada en aluminio inyectado, con acabado en pintura poliéster electrostática en polvo.

Color

Negro Semi mate.

Características técnicas

LED	 117°	 50,000h	IP 65	IK 06
PF 0,99	THD <15%	°C -40-55	V 100-277	Dim 1-10V

Fuente de luz

Módulo de LED integrado.

Potencia Nominal	CRI	K	Lm / W	Lm de Salida
240W	>80	5000	127	30452

Características de fuente de luz

- Color temperatura disponible 5000K (luz día).
- Protección 4KV contra sobretensiones.
- Potencia de Salida: 240,2W.

Light efficiency:



Light quality:



Color temperature:



Output: 30452 lm

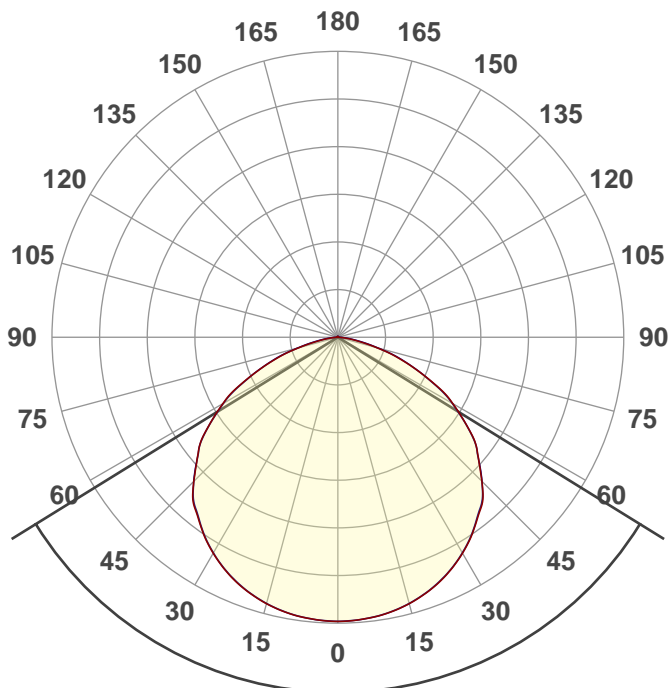
Peak: 10459 cd

Power: 240,2 W

PF: 0,99



Product name:
E0435-MESSINA-240W



Beam angle **116,5°**



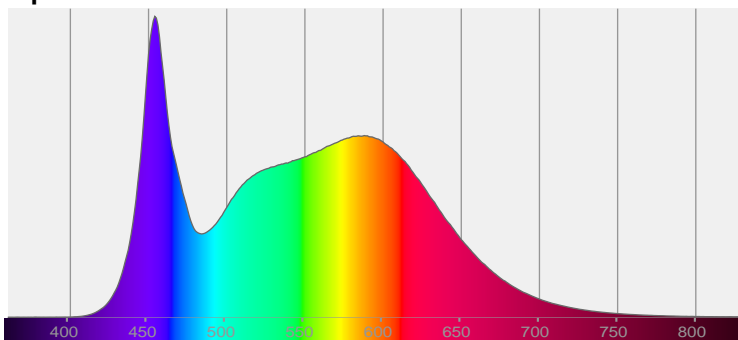
CIE 1931
x: 0,342
y: 0,352

THD Values:

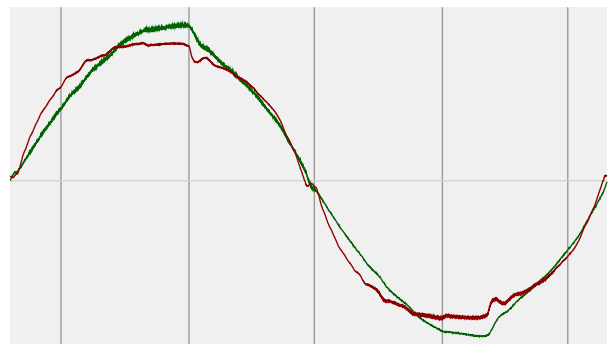
Voltage: 3,02%

Current: 10,61%

Spectra



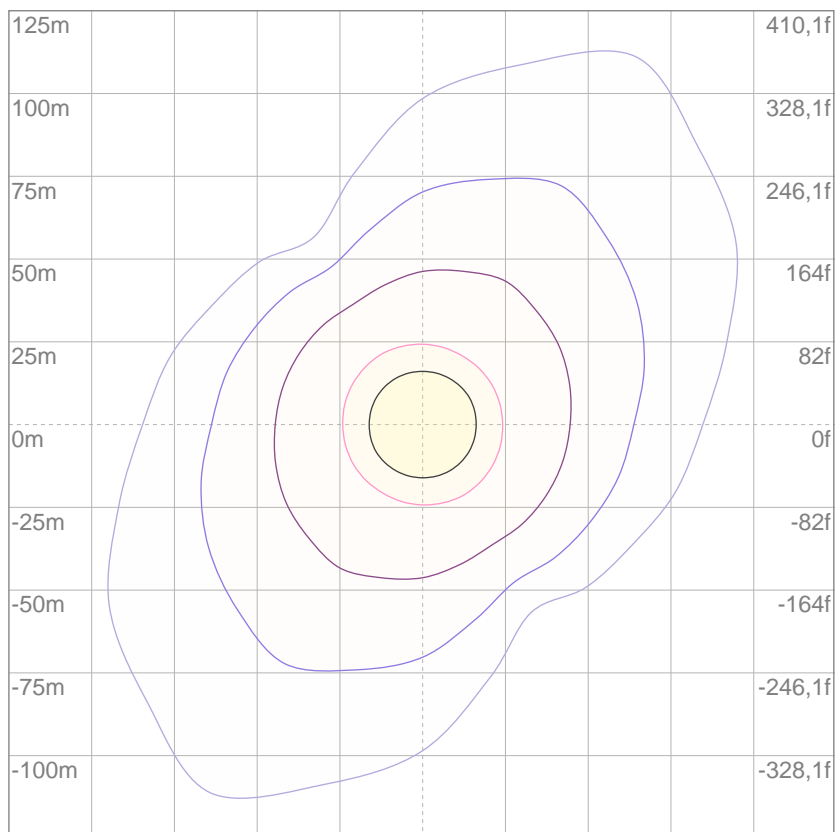
Power



Voltage: 117 V
Current: 2,08 A
Frequency: 60 Hz

ISO Diagrams

ISO lux diagram



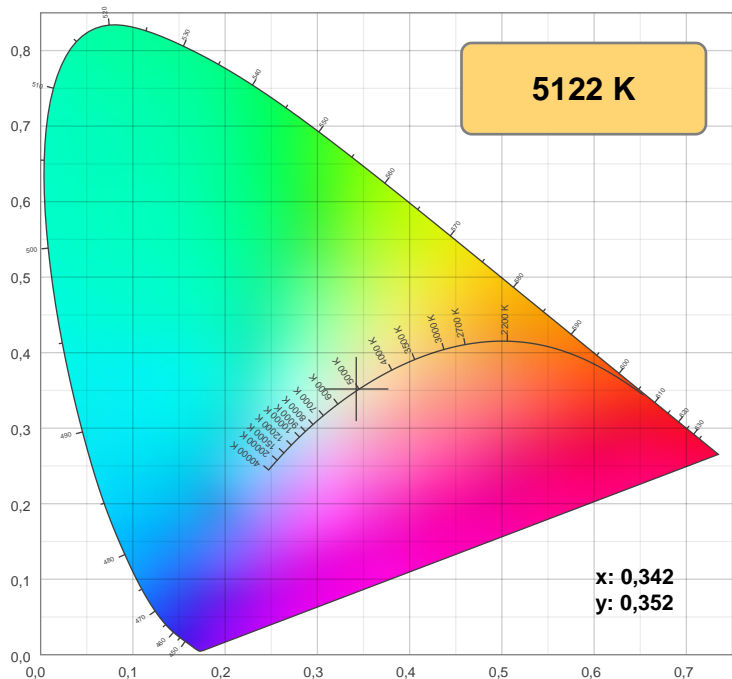
— 3%	3,14 lx
— 5%	5,23 lx
— 10%	10,5 lx
— 30%	31,4 lx
— 50%	52,3 lx

Conditions:
 Number of c-planes: 12
 Lux at center: 105 lx

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

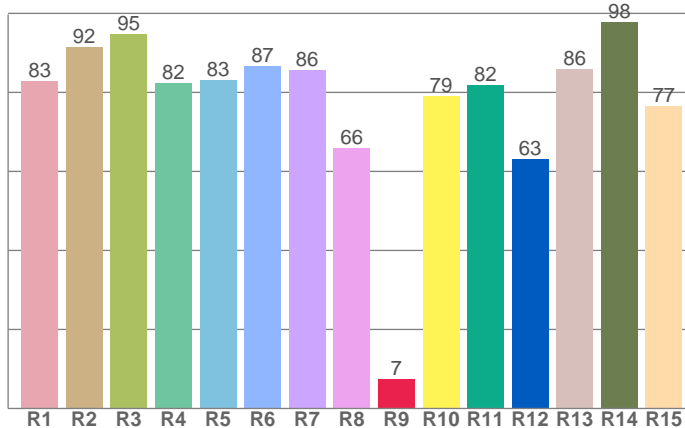
Mounting height: 10 meters (33 f)

Color details



CIE 1931

CRI: 84,1 (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
82,9	91,5	94,9	82,3	83,1	86,8	85,6	65,9	7,4	79,0	82,0	63,1	85,8	97,8	76,6

Color parameters

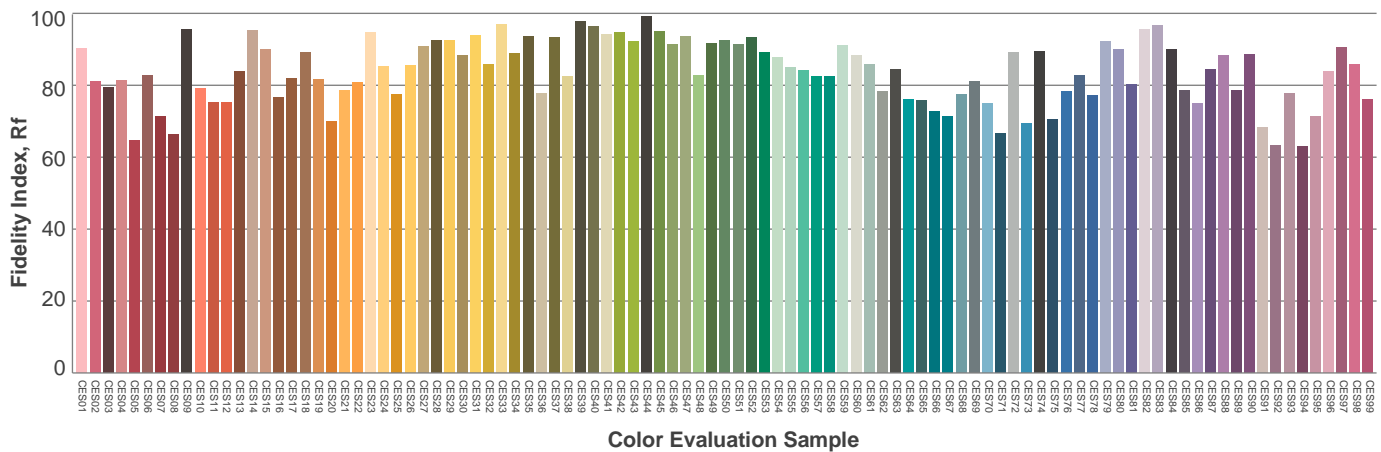
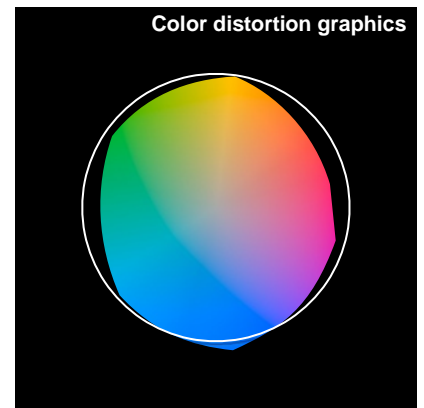
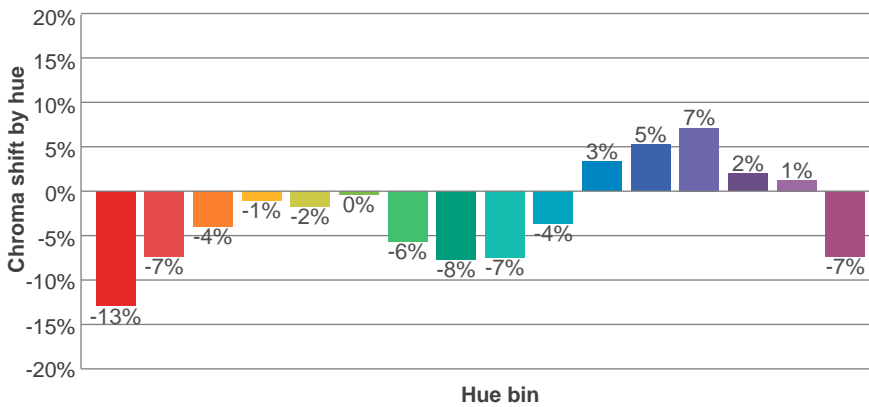
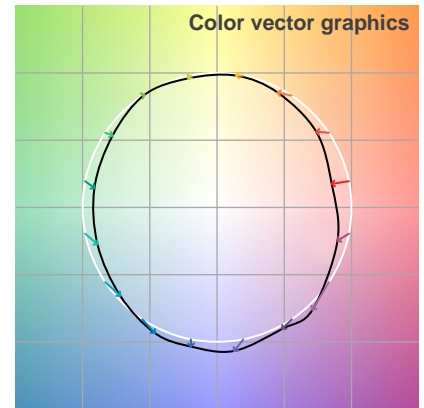
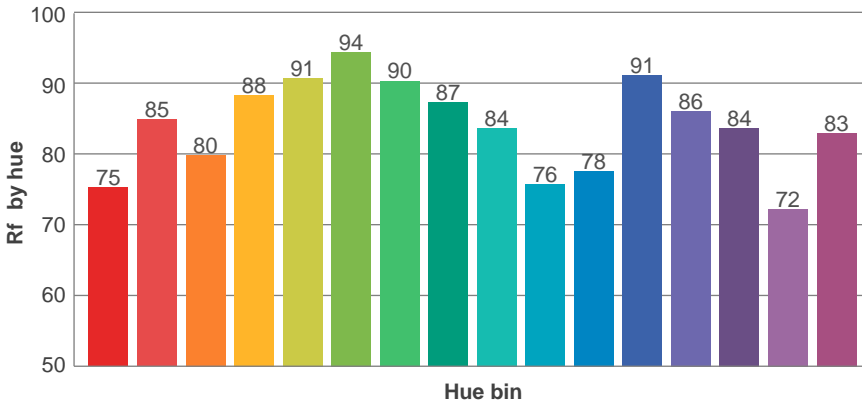
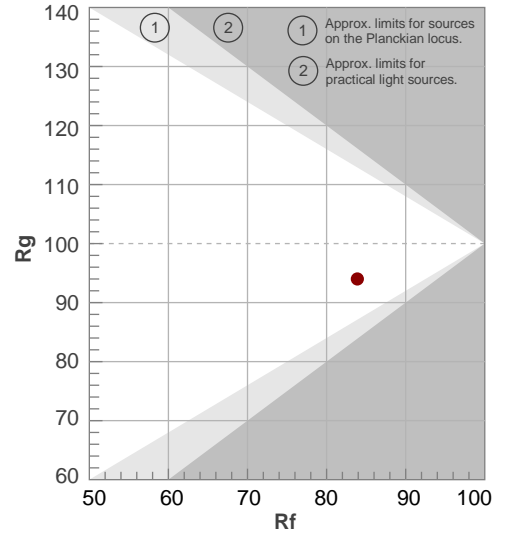
Color temperature	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
5122 K	84,1	7,4	83,9	94,0	81,2	0,342	0,352	0,209	0,323	0,0019

TM-30 details

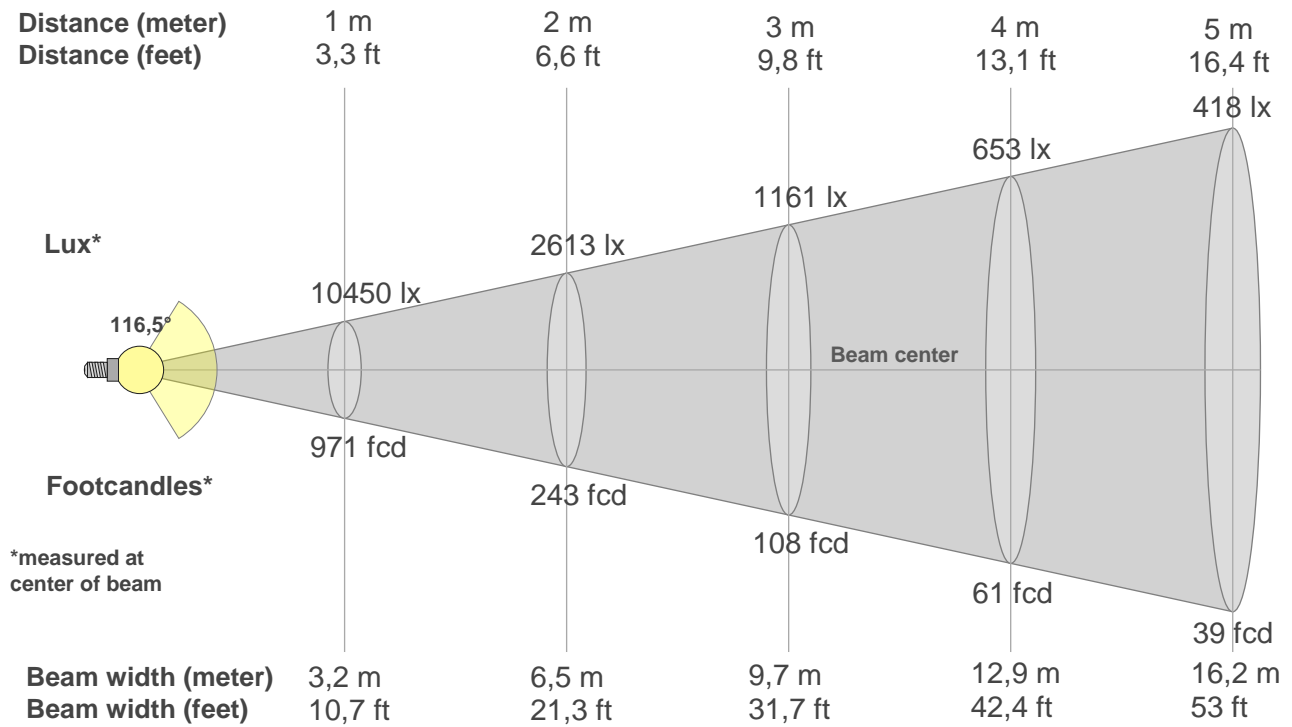
Rf 83,9
Fidelity index Rf

Rg 94,0
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	75	-13%	1%
2	85	-7%	6%
3	80	-4%	10%
4	88	-1%	5%
5	91	-2%	2%
6	94	0%	-2%
7	90	-6%	-1%
8	87	-8%	4%
9	84	-7%	10%
10	76	-4%	14%
11	78	3%	13%
12	91	5%	1%
13	86	7%	-8%
14	84	2%	-10%
15	72	1%	-24%
16	83	-7%	-7%



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
10450lx	2613lx	1161lx	653lx	418lx	290lx	213lx	163lx	129lx	105lx	86lx	73lx	62lx	53lx	46lx	41lx	36lx	32lx	29lx	26lx
970,8fcd	242,7fcd	107,9fcd	60,7fcd	38,8fcd	27fcd	19,8fcd	15,2fcd	12fcd	9,7fcd	8fcd	6,7fcd	5,7fcd	5fcd	4,3fcd	3,8fcd	3,4fcd	3fcd	2,7fcd	2,4fcd

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°
10,5K	10,4K	10,3K	10,2K	9,9K	9,6K	9,2K	8,7K	8,2K	7,5K	6,7K	5,9K	4,9K	3,7K	2,6K	1,5K	0,6K	0,2K	0,0K	0,0K
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	64%	56%	47%	36%	25%	14%	6%	2%	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°
10,5K	10,4K	10,3K	10,1K	9,9K	9,6K	9,2K	8,7K	8,2K	7,5K	6,7K	5,9K	4,9K	3,7K	2,6K	1,5K	0,7K	0,3K	0,0K	0,0K
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	64%	56%	47%	36%	25%	15%	7%	2%	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°
10,5K	10,4K	10,3K	10,2K	9,9K	9,6K	9,2K	8,7K	8,2K	7,5K	6,7K	5,9K	4,9K	3,7K	2,6K	1,5K	0,6K	0,2K	0,0K	0,0K
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	64%	56%	47%	36%	25%	14%	6%	2%	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°
10,5K	10,4K	10,3K	10,1K	9,9K	9,6K	9,2K	8,7K	8,2K	7,5K	6,7K	5,9K	4,9K	3,7K	2,6K	1,5K	0,7K	0,3K	0,0K	0,0K
100%	100%	99%	97%	95%	92%	88%	83%	78%	72%	64%	56%	47%	36%	25%	15%	7%	2%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
116,5°	155,2°	168,5°	81,2%	54,6%

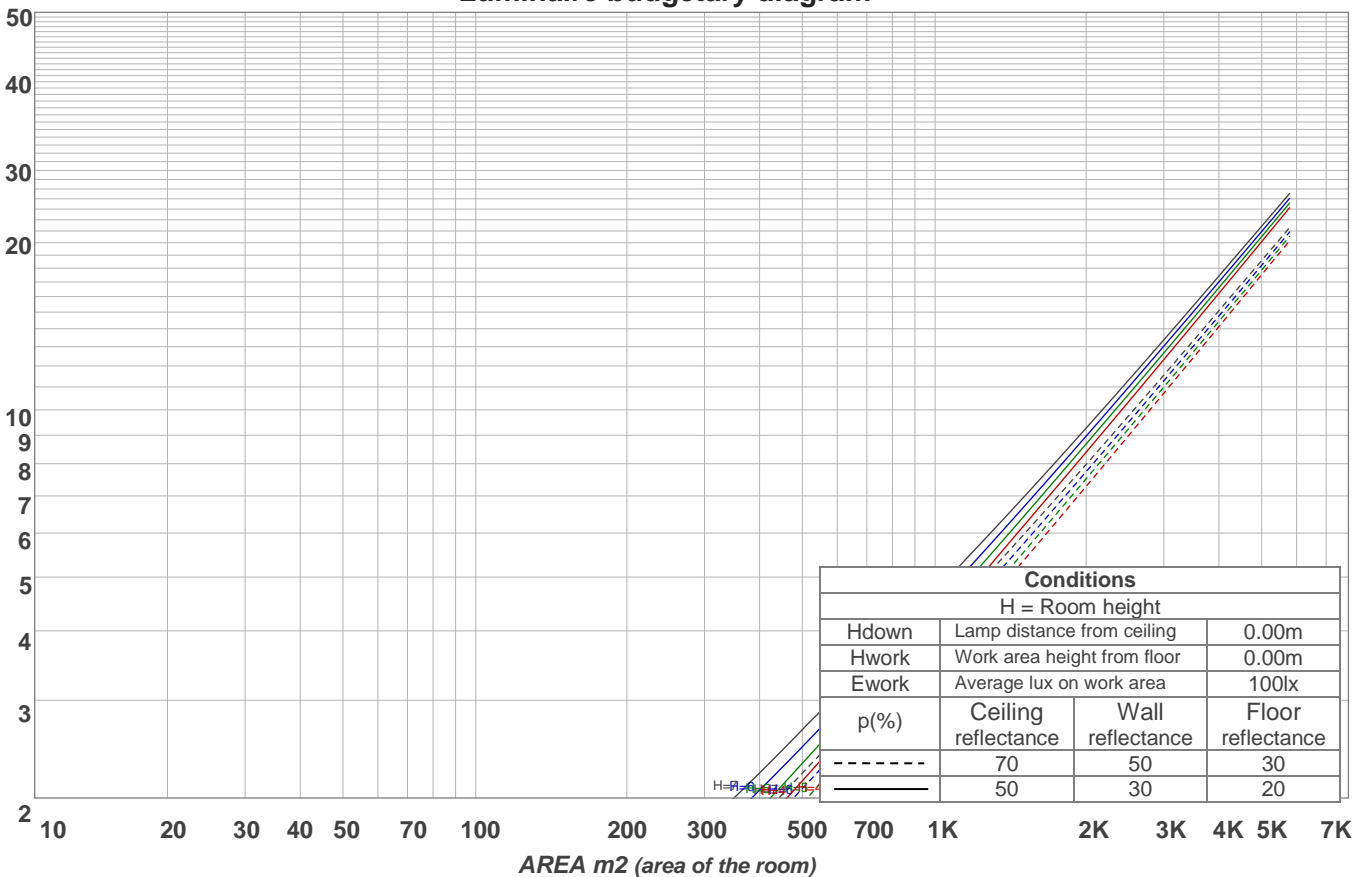
Light planning

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	102	102	102	100			
1	109	105	101	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44			
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38			
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34			
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	42	36	32	30			
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24			

LAMPS (number of lamps)

Luminaire budgetary diagram



Zonal Lumen Summary

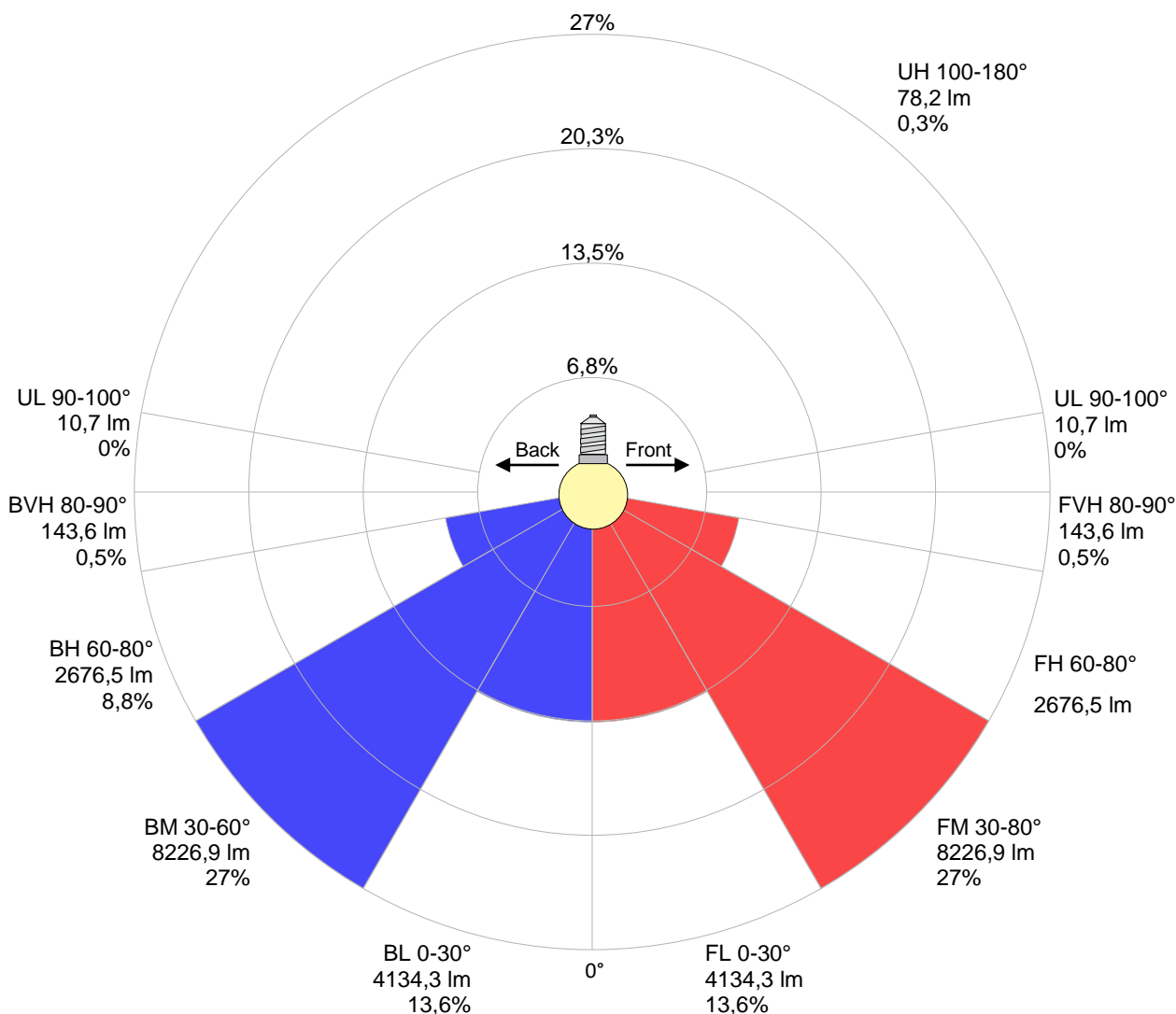
0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
991 lm	2865 lm	4414 lm	5439 lm	5780 lm	5236 lm	3704 lm	1648 lm	286 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
10,5 lm	10,4 lm	13,1 lm	13,4 lm	12,6 lm	11,3 lm	9,10 lm	6,08 lm	2,18 lm

Road report

LCS table

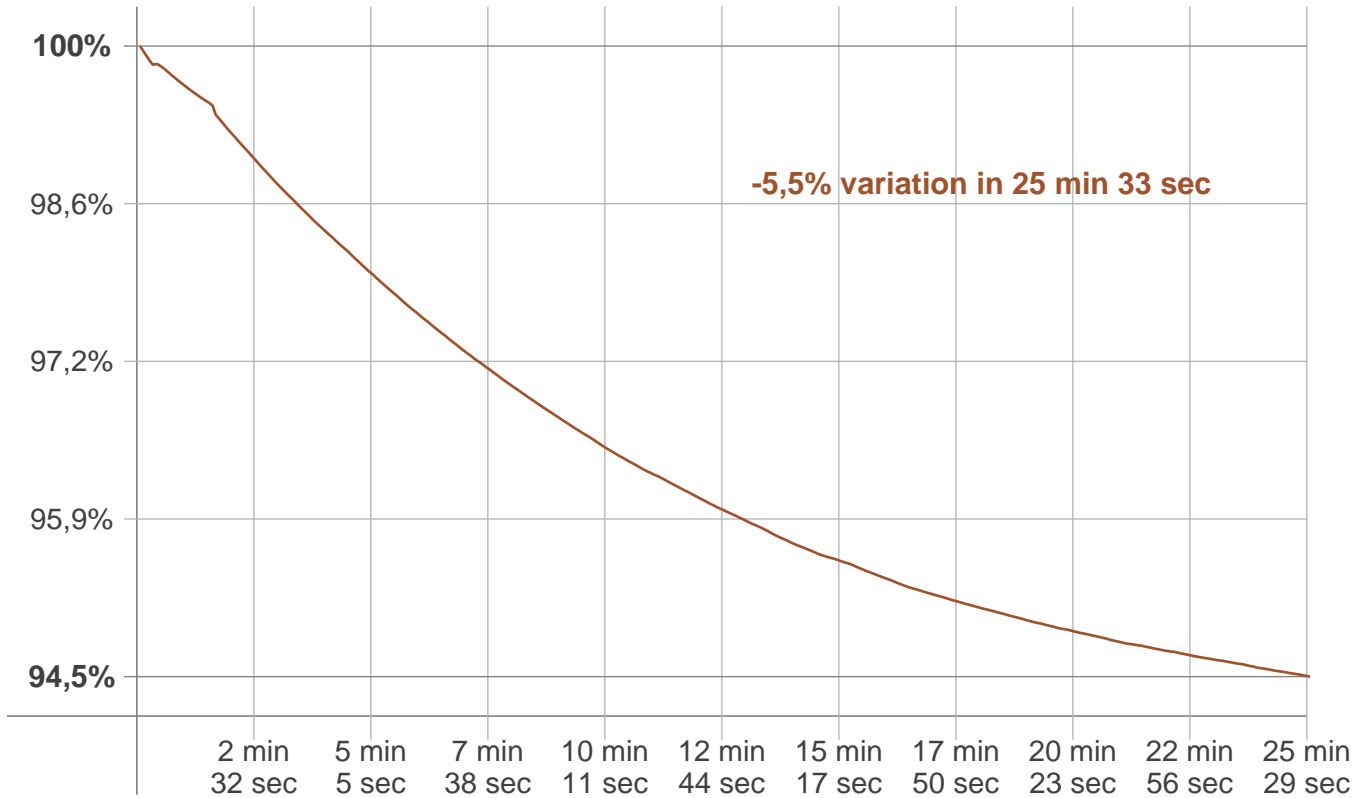
BUG rating:	B4 U3 G4	
Forward light	Lumens	Lumens %
Low(0-30):	4134,3	13,6%
Medium(30-60):	8226,9	27%
High(60-80):	2676,5	8,8%
Very high(80-90):	143,6	0,5%
Back light		
Low(0-30):	4134,3	13,6%
Medium(30-60):	8226,9	27%
High(60-80):	2676,5	8,8%
Very high(80-90):	143,6	0,5%
Uplight		
Low(90-100):	10,7	0%
High(100-180):	78,2	0,3%

LCS graph



Stabilization

Warmup curve



Warmup result

Warmup time:	25 min 33 sec
Warmup variation	-5,5%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4990 K	+132 K	5122 K

Output change

Output start	Output change	Output end
32151 lm	-1700 lm	30452 lm