Dimensiones (mm)

Diámetro: Ø380; **Alto:** 210.

Código

MESSINA-165W

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 electroestática en polvo.

Color

Negro Semi mate.

Características técnicas

LED	63°	50,000h	**IP 66**	**IK 06**
PF 1	**THD <10%**	**°C 0-65**	**V 90-305**	

Fuente de luz

Módulo de LED integrado.

Potencia Nominal	CRI	K	Lm / W	Lm de Salida
165W	>80	5000	123	18498

Características de fuente de luz

- Color temperatura disponible 5000K (luz día).
- Potencia de Salida: 150W.

Nota: Debido a continua investigación, nos reservamos el derecho de cambiar especificaciones sin previa notificación.

Light efficiency:

123 Lumen/Watt

Light quality:

CRI: 85,1

Color temperature:

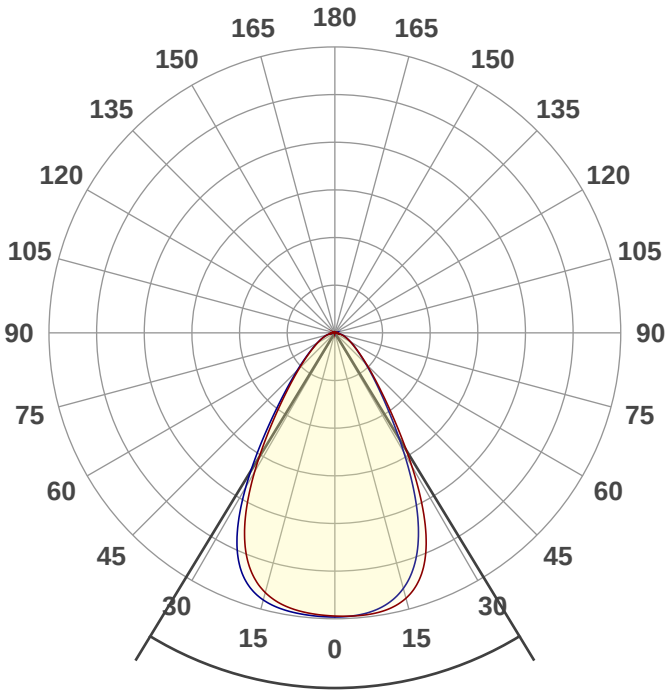
5007 K

Output: 18498 lm

Peak: 15006 cd

Power: 150 W

PF: 1,0



Product name:

E0128-MESSINA-165W

Beam angle

62,6°

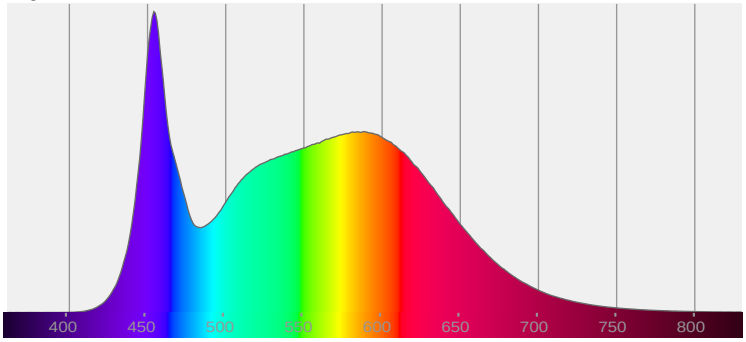
CIE 1931
x: 0,345
y: 0,355

THD Values:

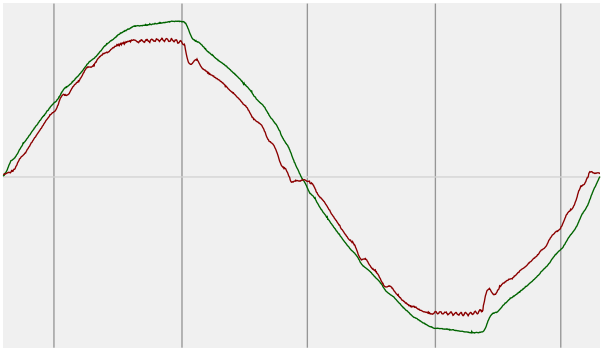
Voltage: 3,45%

Current: 6,05%

Spectra

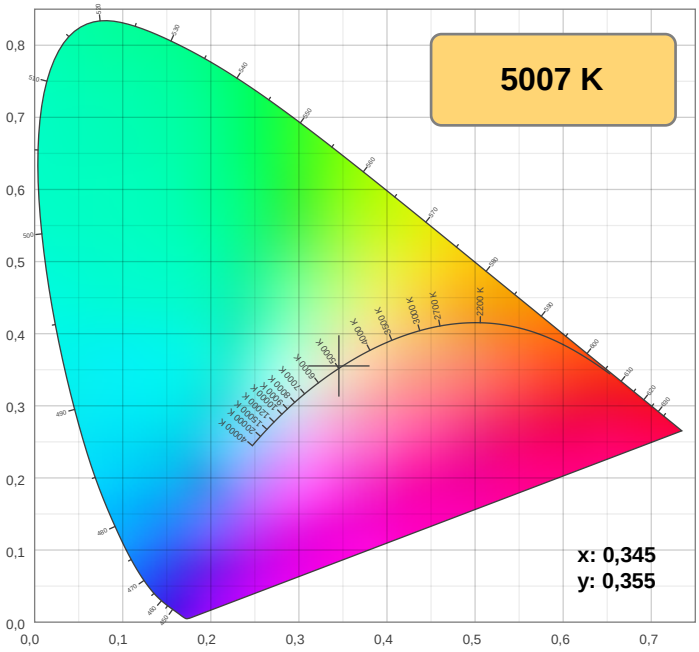


Power



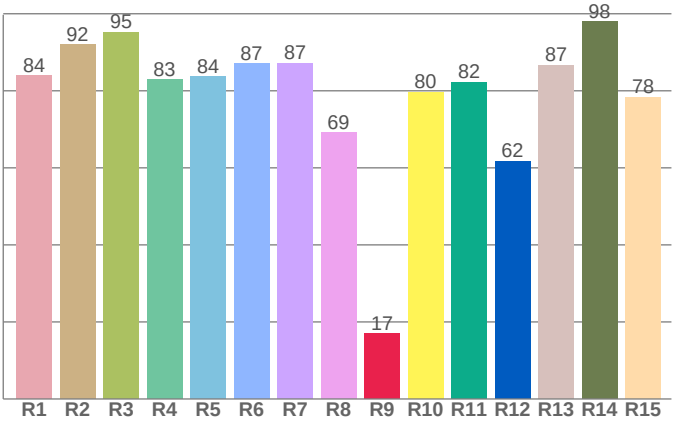
Voltage: 117 V
Current: 1,29 A
Frequency: 60 Hz

Color details



CIE 1931

CRI: 85,1 (R1-R8)

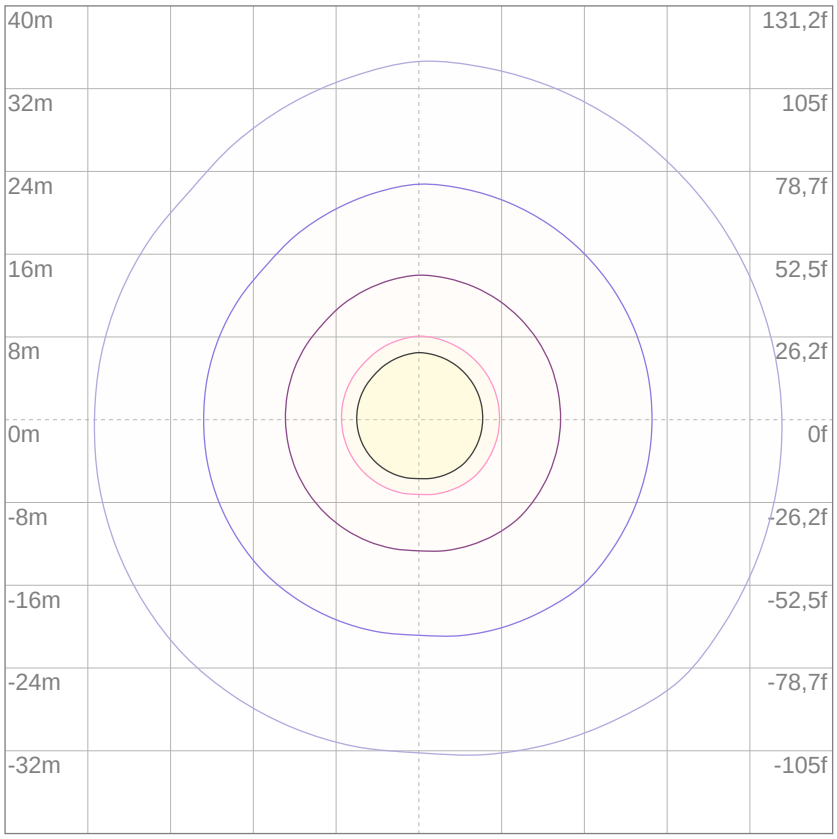


CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	9	R10	R11	R12	R13	R14	R15
84,0	91,9	95,2	82,9	83,6	87,1	87,1	69,1	17,0	79,6	82,3	61,7	86,6	97,9	78,4

ISO Diagrams

ISO lux diagram



Mounting height: 10 meters (33 f)

3%	4,49 lx
5%	7,48 lx
10%	15,0 lx
30%	44,9 lx
50%	74,8 lx

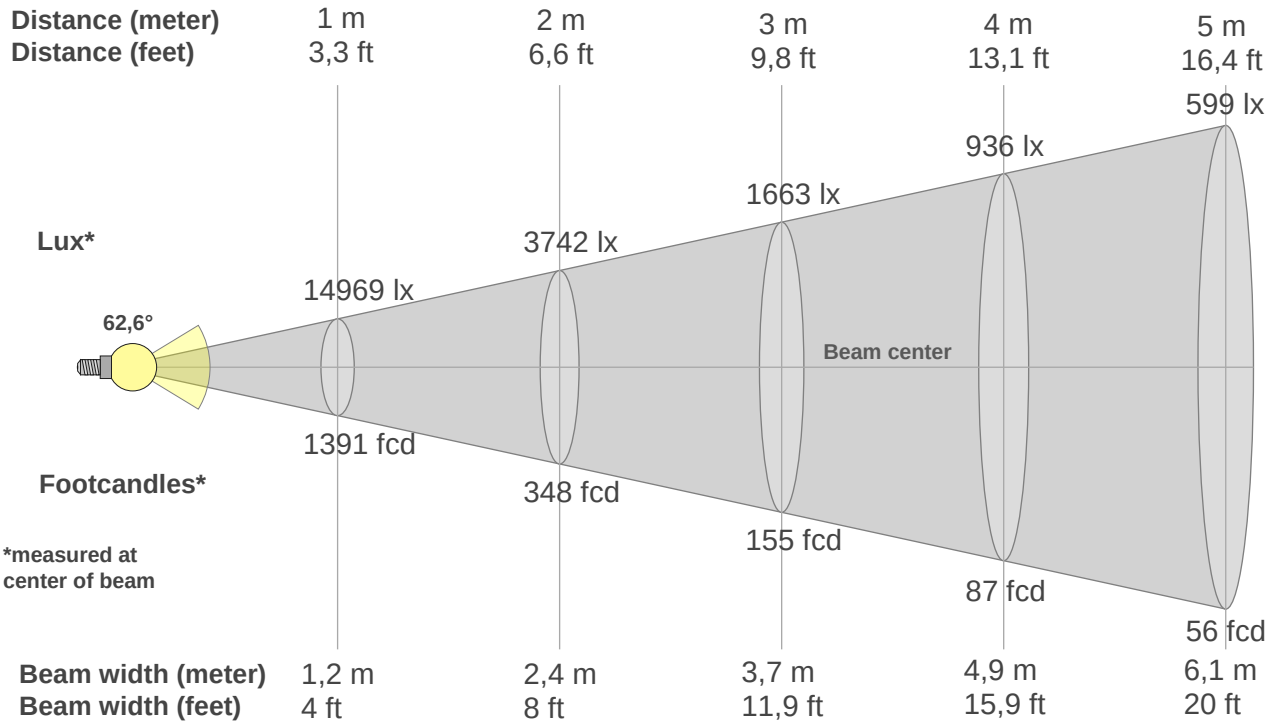
Conditions:

Number of c-planes: 8

Lux at center: 150 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
14969lx	3742lx	1663lx	936lx	599lx	416lx	305lx	234lx	185lx	150lx	124lx	104lx	89lx	76lx	67lx	58lx	52lx	46lx	41lx	37lx
1390,6f	347,7fc	154,5fc	86,9fcd	55,6fcd	38,6fcd	28,4fcd	21,7fcd	17,2fcd	13,9fcd	11,5fcd	9,7fcd	8,2fcd	7,1fcd	6,2fcd	5,4fcd	4,8fcd	4,3fcd	3,9fcd	3,5fcd

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°
15,0K	15,0K	14,9K	14,5K	13,5K	11,3K	8,1K	5,3K	3,5K	2,4K	1,7K	1,3K	1,0K	0,7K	0,5K	0,4K	0,2K	0,0K	0,0K	0,0K
100%	100%	100%	97%	90%	76%	54%	35%	23%	16%	11%	8%	6%	5%	4%	2%	1%	0%	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°
15,0K	14,9K	14,7K	14,0K	12,6K	10,2K	7,3K	4,8K	3,3K	2,3K	1,7K	1,2K	0,9K	0,7K	0,5K	0,4K	0,2K	0,0K	0,0K	0,0K
100%	100%	98%	93%	84%	68%	49%	32%	22%	15%	11%	8%	6%	5%	4%	2%	1%	0%	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°
15,0K	14,9K	14,7K	14,2K	13,2K	11,3K	8,5K	5,7K	3,8K	2,7K	1,9K	1,4K	1,1K	0,8K	0,6K	0,4K	0,3K	0,1K	0,0K	0,0K
100%	99%	98%	95%	88%	75%	57%	38%	26%	18%	13%	9%	7%	5%	4%	3%	2%	0%	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°
15,0K	15,0K	14,9K	14,6K	13,9K	12,2K	9,4K	6,3K	4,1K	2,8K	2,0K	1,4K	1,1K	0,8K	0,6K	0,4K	0,2K	0,0K	0,0K	0,0K
100%	100%	99%	98%	93%	82%	63%	42%	28%	19%	13%	10%	7%	5%	4%	3%	2%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
62,6°	106,2°	150,9°	93,1%	81,8%

TM30 details

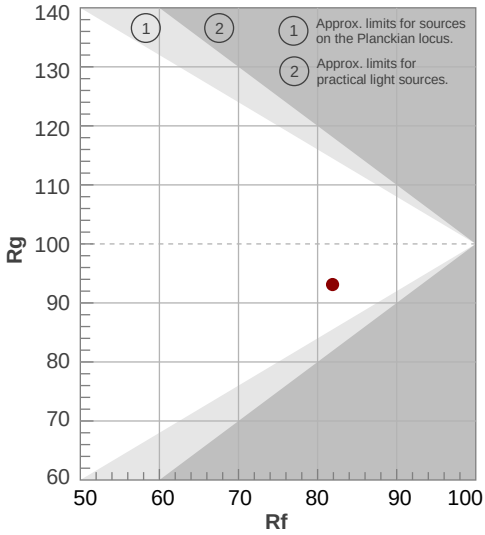
Rf 81,9

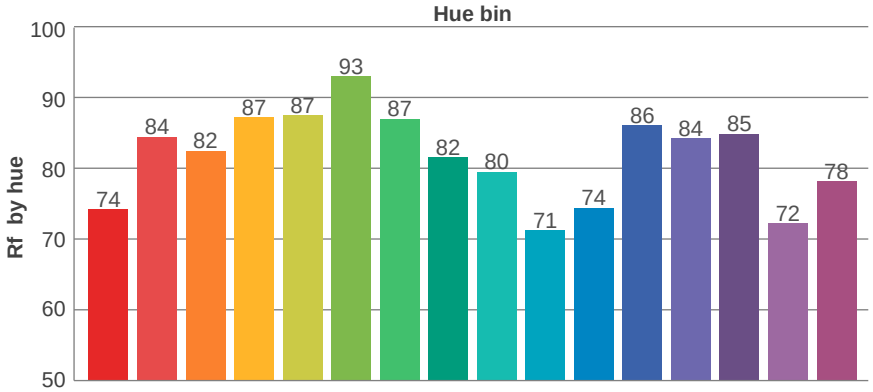
Fidelity index Rf

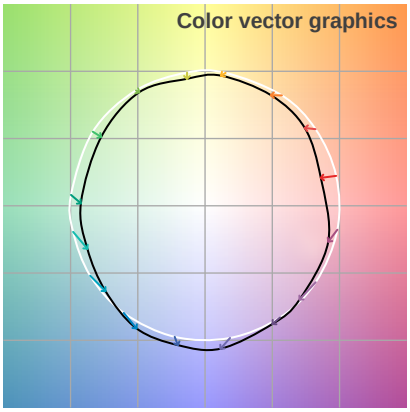
Rg 93,1

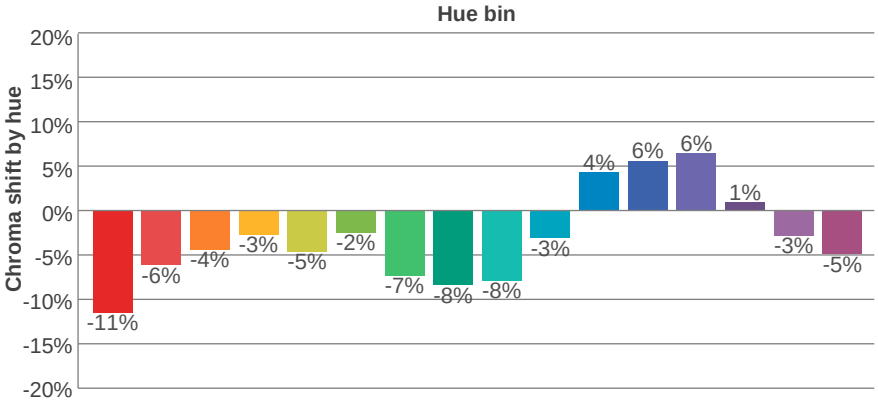
Gammut index Rg

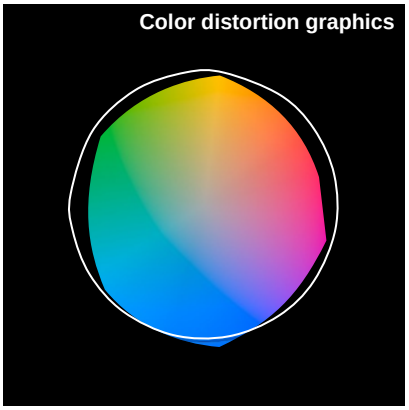
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	74	-11%	1%
2	84	-6%	5%
3	82	-4%	7%
4	87	-3%	3%
5	87	-5%	1%
6	93	-2%	-1%
7	87	-7%	0%
8	82	-8%	5%
9	80	-8%	14%
10	71	-3%	16%
11	74	4%	14%
12	86	6%	3%
13	84	6%	-8%
14	85	1%	-7%
15	72	-3%	-17%
16	78	-5%	-10%

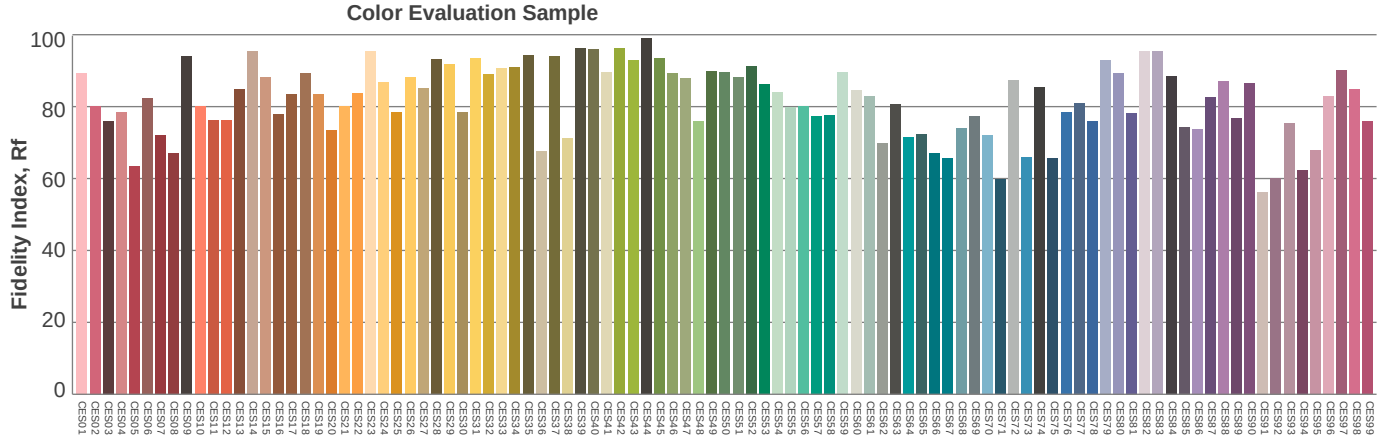










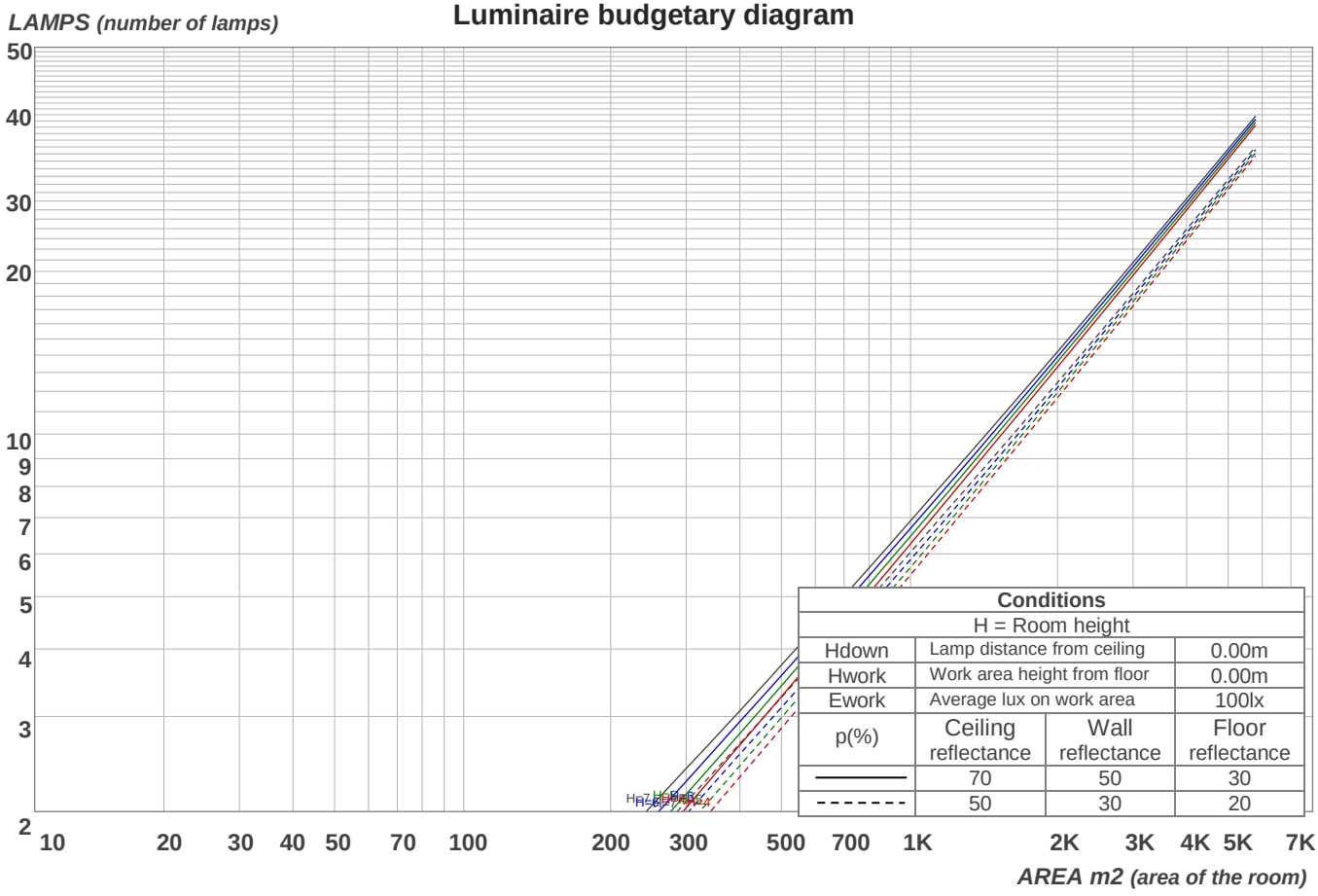


Light planning

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
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	112	109	106	103	109	106	104	101	102	100	98	98	97	95	95	93	92	90
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	91	85	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	70	66	63	61
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56
7	77	66	59	54	76	66	59	54	64	58	54	63	58	54	62	57	53	52
8	73	62	55	50	71	61	55	50	60	54	50	59	54	50	58	53	50	48
9	69	58	51	47	68	57	51	47	56	51	46	55	50	46	55	50	46	45
10	65	54	48	44	64	54	48	44	53	47	43	52	47	43	51	47	43	42

Luminaire budgetary diagram



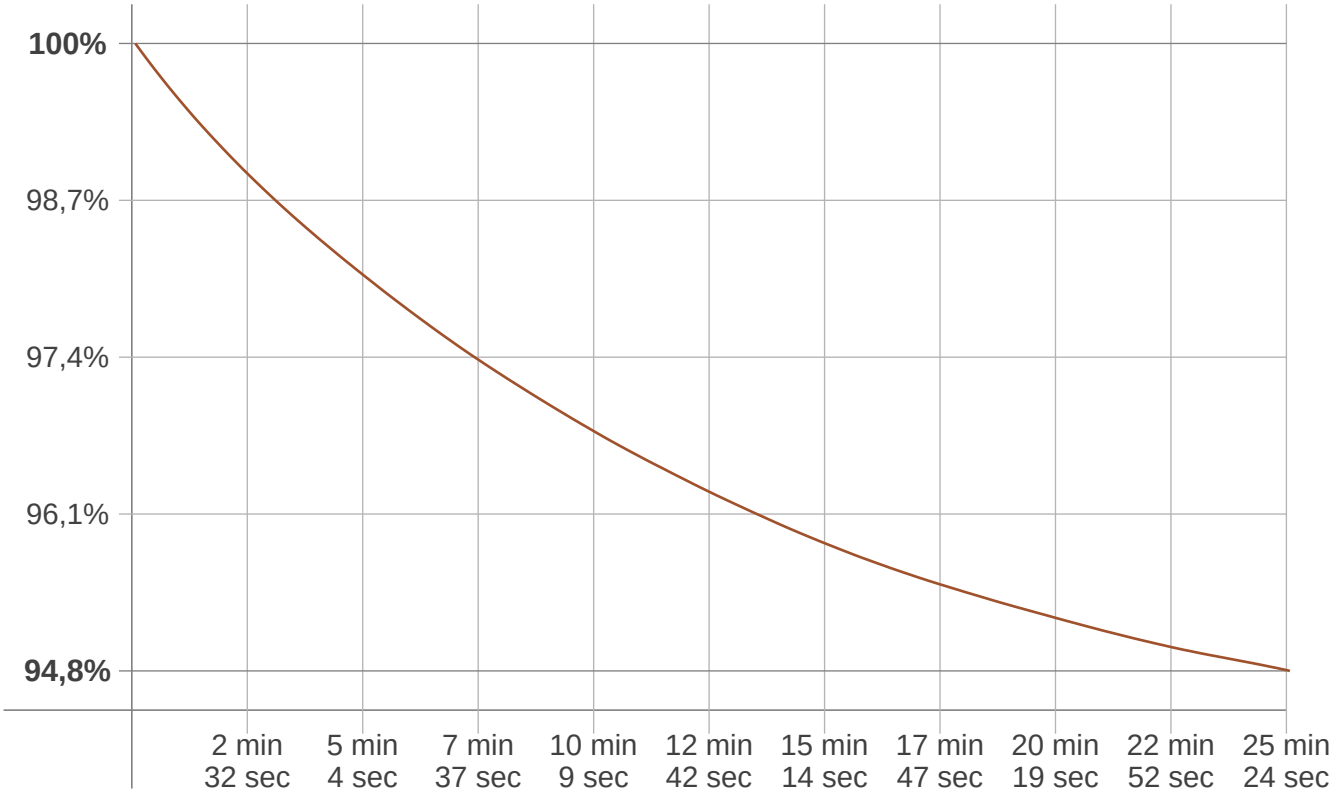
Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
1421 lm	4008 lm	5065 lm	3508 lm	2000 lm	1217 lm	762 lm	412 lm	77,2 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,894 lm	1,48 lm	2,43 lm	3,69 lm	4,80 lm	5,05 lm	4,31 lm	2,97 lm	1,12 lm

Stabilization

Warmup curve



Warmup result

Warmup time:	**25 min 29 sec**
Warmup variation	**-5,2%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4925 K	**+82 K**	**5007 K**

Output change

Output start	Output change	Output end
19504 lm	**-1006 lm**	**18498 lm**