Light efficiency:

102 Lumen/Watt

Light quality:

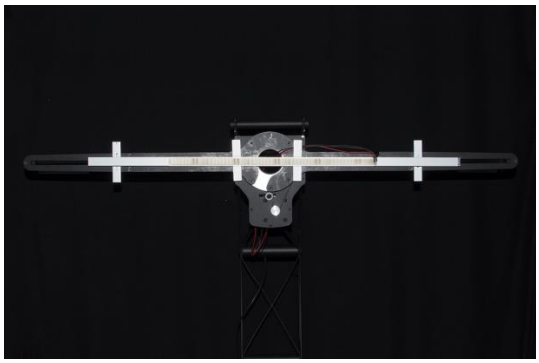
CRI: 93,0

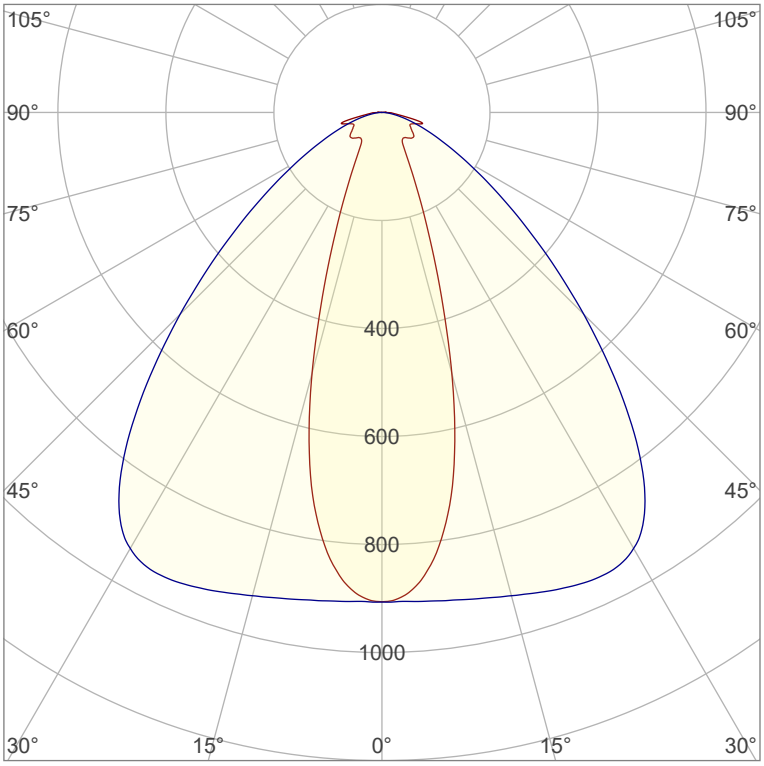
Color temperature:

6500 K

Output: 975 lm
Peak: 950 cd

Power: 9,6 W
PF: 1,0





Product name:
Pegasus-5_510mm_965_Lens-30°-Frosted

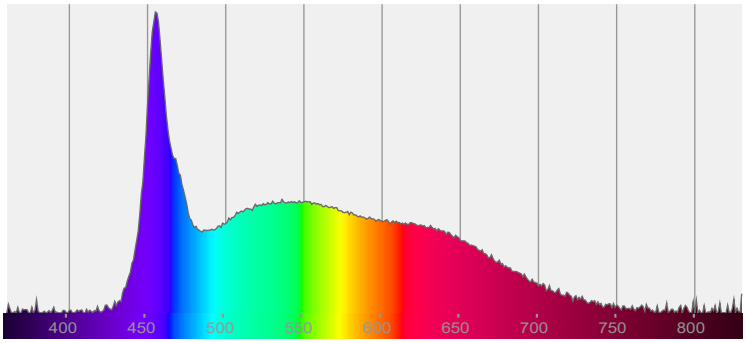
Item number:
NP/L2C/09E/0510/965/L3F

Date and time:
14.04.2025 12:01:58

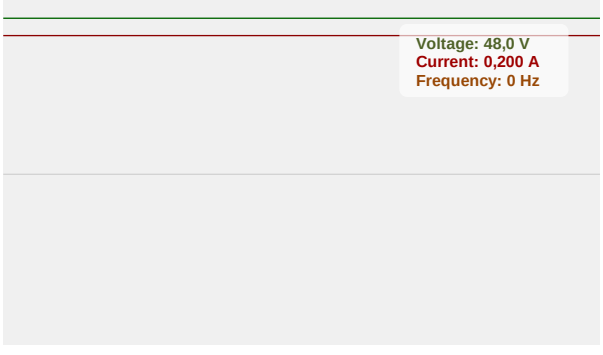
Description:
Tolerances:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Kelvin
CRI +/-0,7
Angular Resolution: 1 Degree Step
Last Calibration 13.10.2023
Tester:
Peter Ulrich
Test Site:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

CIE 1931
x: 0,314
y: 0,324

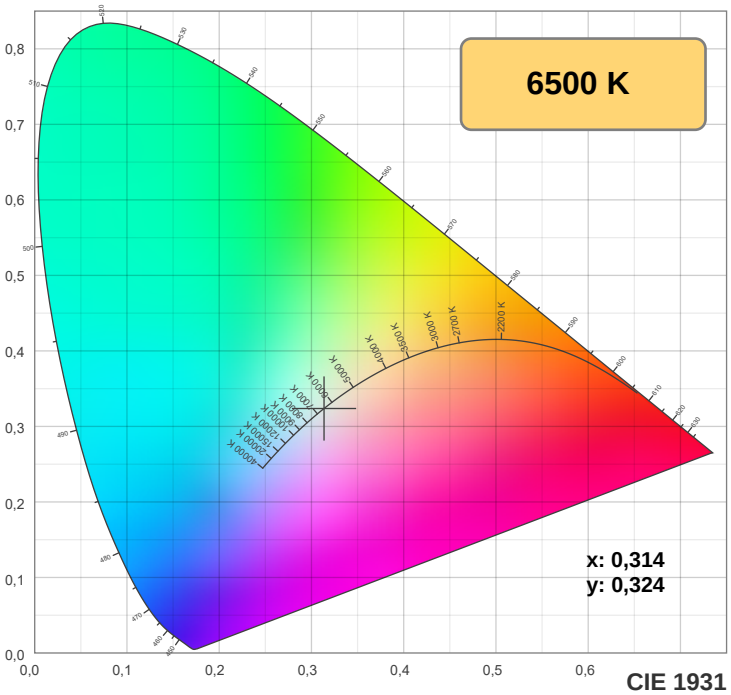
Spectra



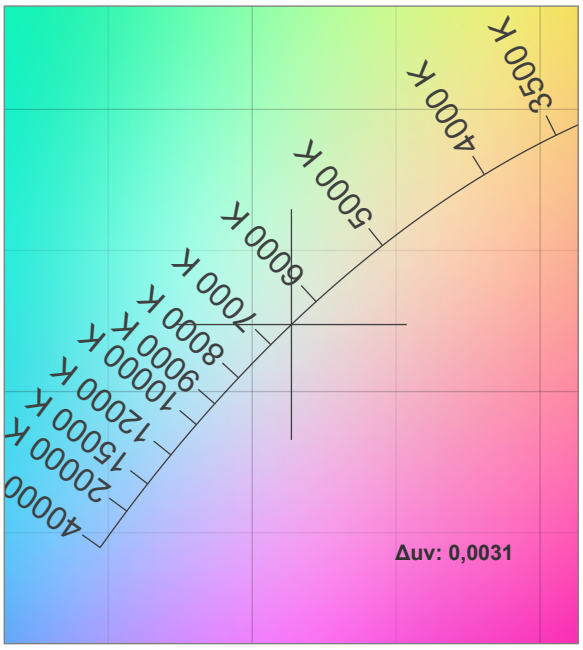
Power



Color details

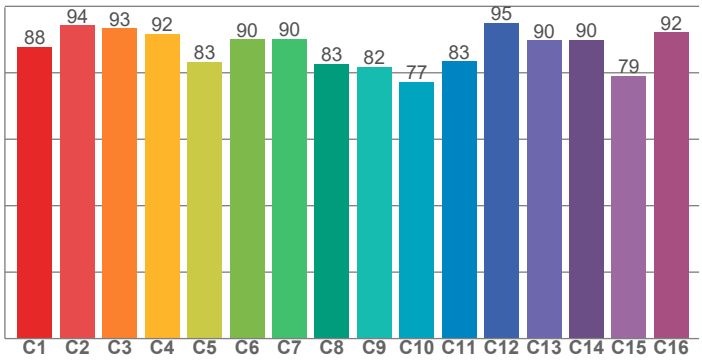


CIE 1931

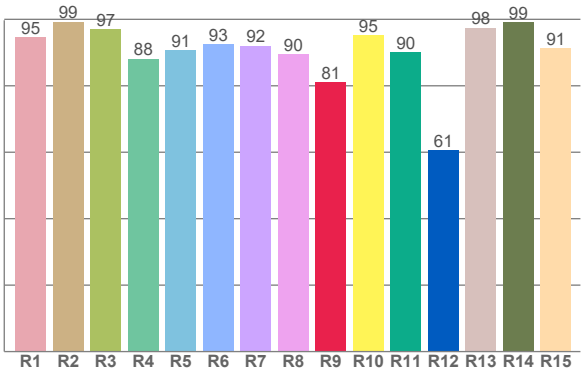


CIE 1931 ZOOM

TM30: 87,1



CRI: 93,0 (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
94,6	99,2	97,1	88,1	90,6	92,5	92,0	89,6	81,1	95,3	90,1	60,6	97,5	99,1	91,3

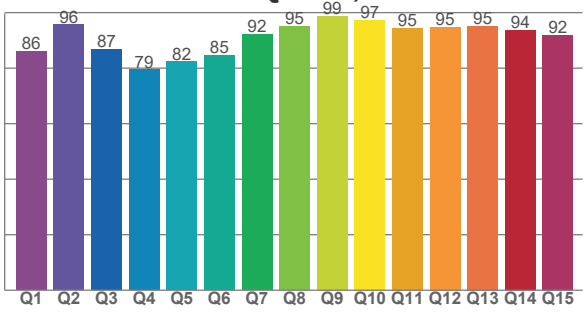
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,8	94,3	93,4	91,8	83,3	90,1	90,1	82,7	81,8	77,3	83,4	95,0	89,8	90,0	79,1	92,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86,0	95,7	86,8	79,4	82,3	84,6	92,2	95,1	98,8	97,3	94,5	94,8	95,2	93,8	91,9

CQS: 89,6



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 diviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
6500 K	93,0	81,1	87,1	94,9	89,6	0,314	0,324	0,200	0,310	0,0031

TM30 details

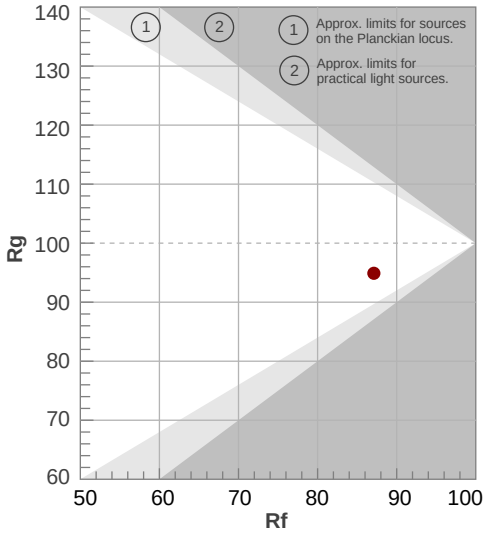
Rf 87,1

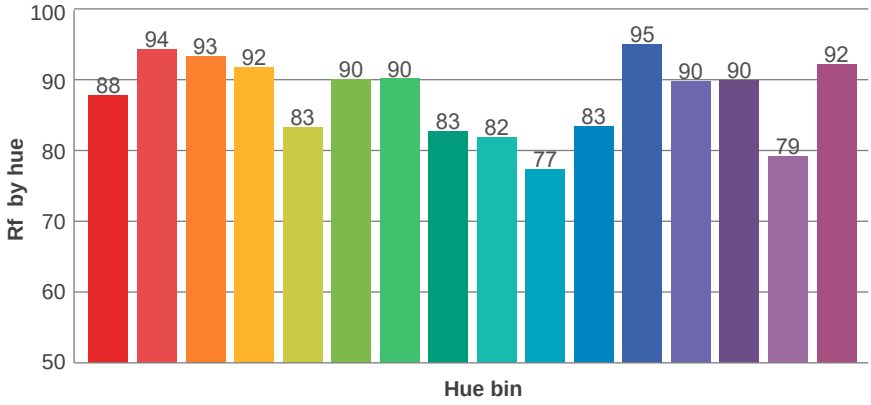
Fidelity index Rf

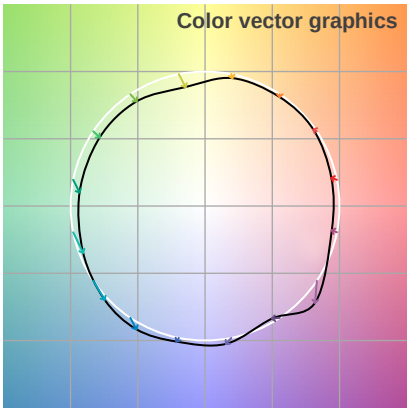
Rg 94,9

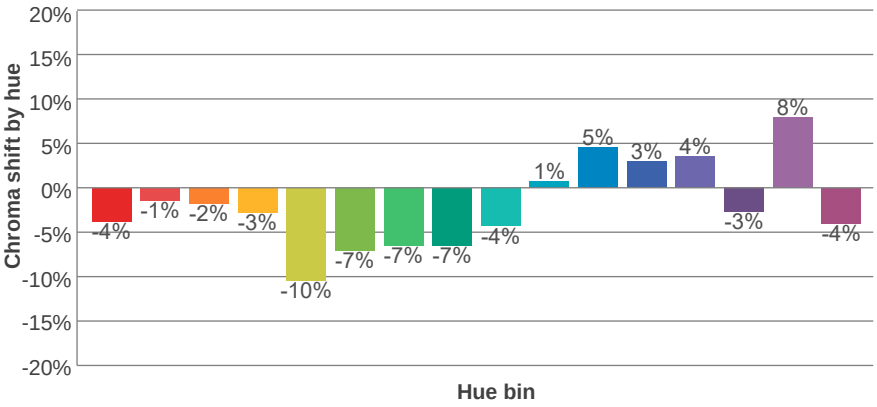
Gammut index Rg

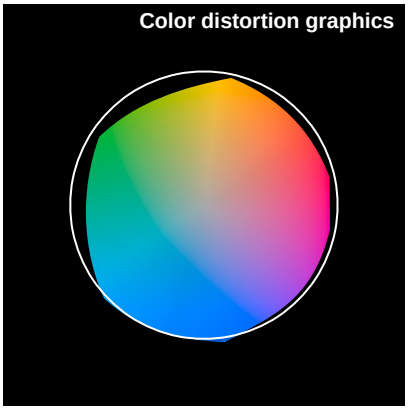
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	88	-4%	2%
2	94	-1%	3%
3	93	-2%	-1%
4	92	-3%	-1%
5	83	-10%	-3%
6	90	-7%	-1%
7	90	-7%	1%
8	83	-7%	8%
9	82	-4%	16%
10	77	1%	16%
11	83	5%	8%
12	95	3%	-1%
13	90	4%	-5%
14	90	-3%	-5%
15	79	8%	-14%
16	92	-4%	1%

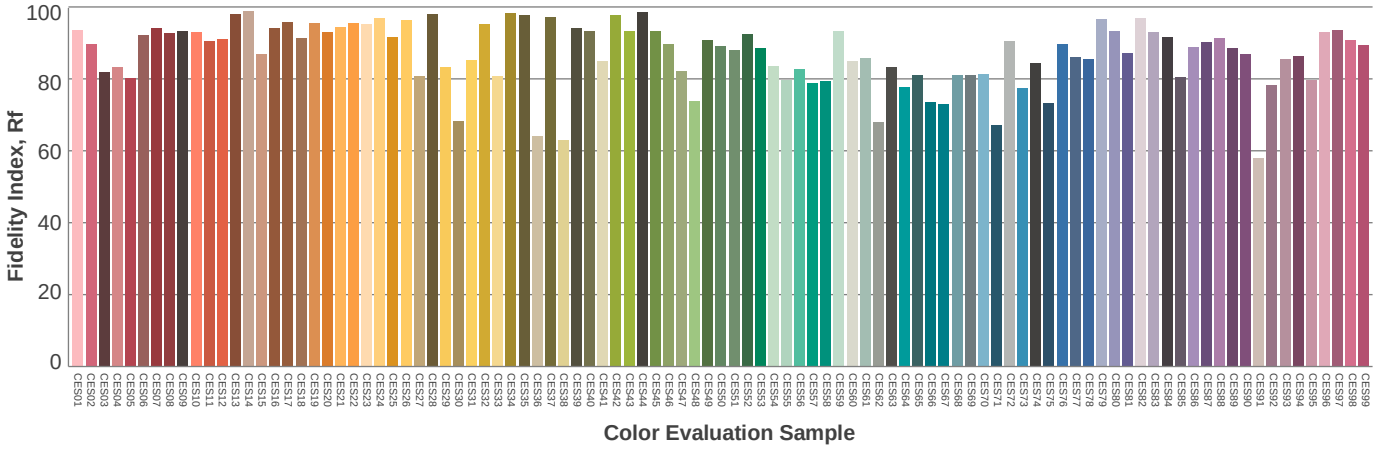




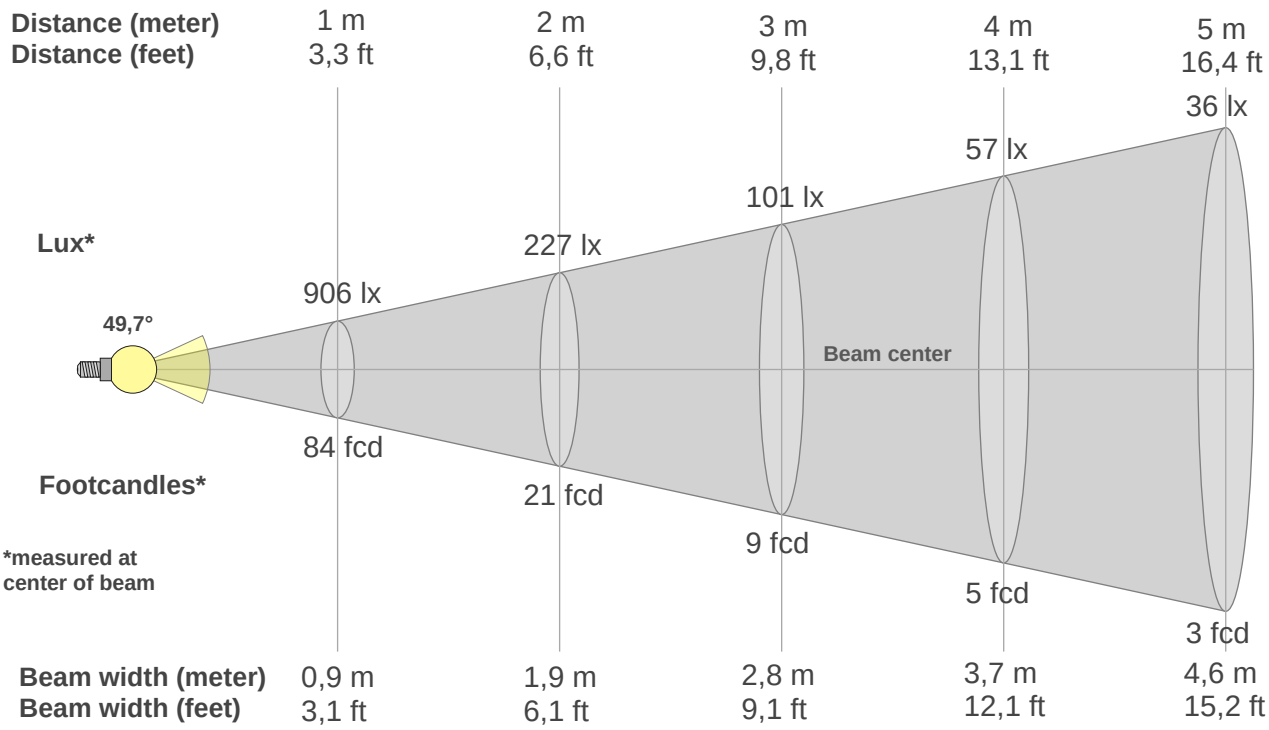








Beam details



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
906lx	227lx	101lx	57lx	36lx	25lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
84,2fcd	21fcd	9,4fcd	5,3fcd	3,4fcd	2,3fcd	1,7fcd	1,3fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
906	900	880	845	795	730	646	550	449	355	276	215	169	134	108	90	77	68	64	62
100%	99%	97%	93%	88%	81%	71%	61%	50%	39%	31%	24%	19%	15%	12%	10%	8%	8%	7%	7%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
906	906	908	910	912	916	919	924	929	935	941	945	949	949	945	932	908	871	821	761
100%	100%	100%	100%	101%	101%	101%	102%	103%	103%	104%	104%	105%	105%	104%	103%	100%	96%	91%	84%

Intensities in 180° c-plane

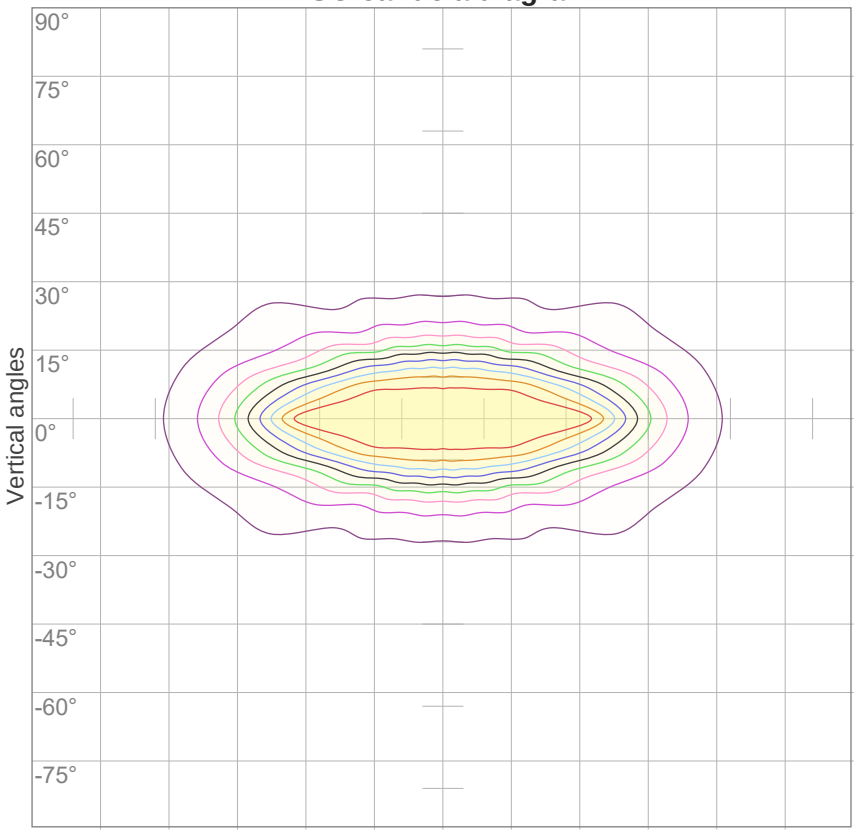
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
906	900	880	845	795	730	646	550	449	355	276	215	169	134	108	90	77	68	64	62
100%	99%	97%	93%	88%	81%	71%	61%	50%	39%	31%	24%	19%	15%	12%	10%	8%	8%	7%	7%

Intensities in 270° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
906	906	908	910	912	916	919	924	929	935	941	945	949	949	945	932	908	871	821	761
100%	100%	100%	100%	101%	101%	101%	102%	103%	103%	104%	104%	105%	105%	104%	103%	100%	96%	91%	84%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,7°	**87,1°**	**168,5°**	**84,2%**	**69,7%**

ISO candela diagram



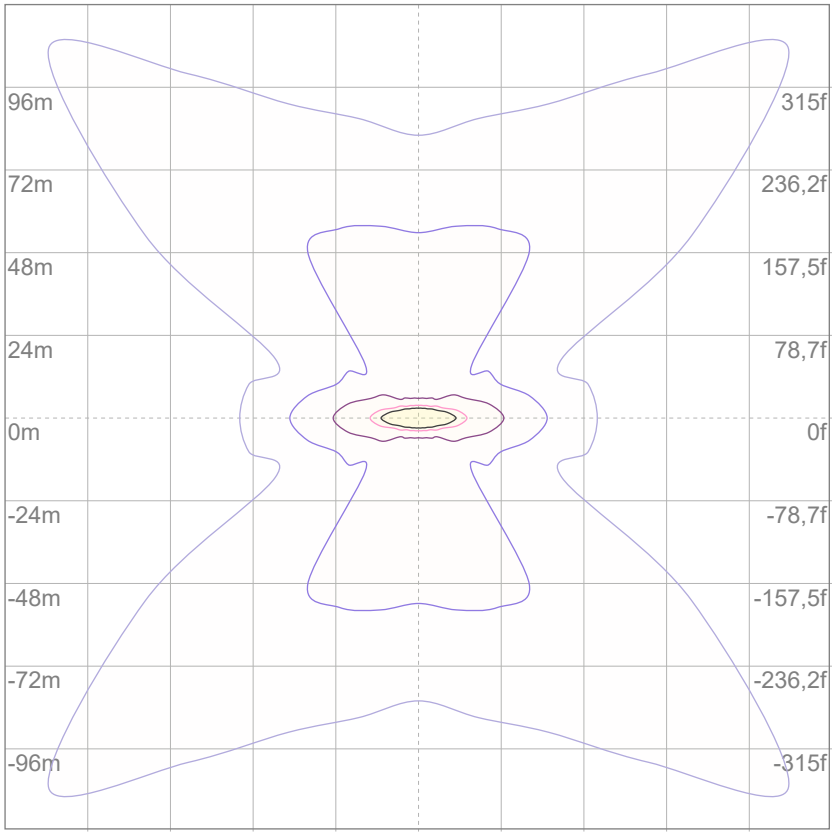
10%	91 cd
20%	181 cd
30%	272 cd
40%	363 cd
50%	453 cd
60%	544 cd
70%	634 cd
80%	725 cd
90%	816 cd

Conditions:

Number of c-planes: 16

Candela at center: 906 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,272 lx
5%	0,453 lx
10%	0,906 lx
30%	2,72 lx
50%	4,53 lx

Conditions:

Number of c-planes: 16

Lux at center: 9,06 lx

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

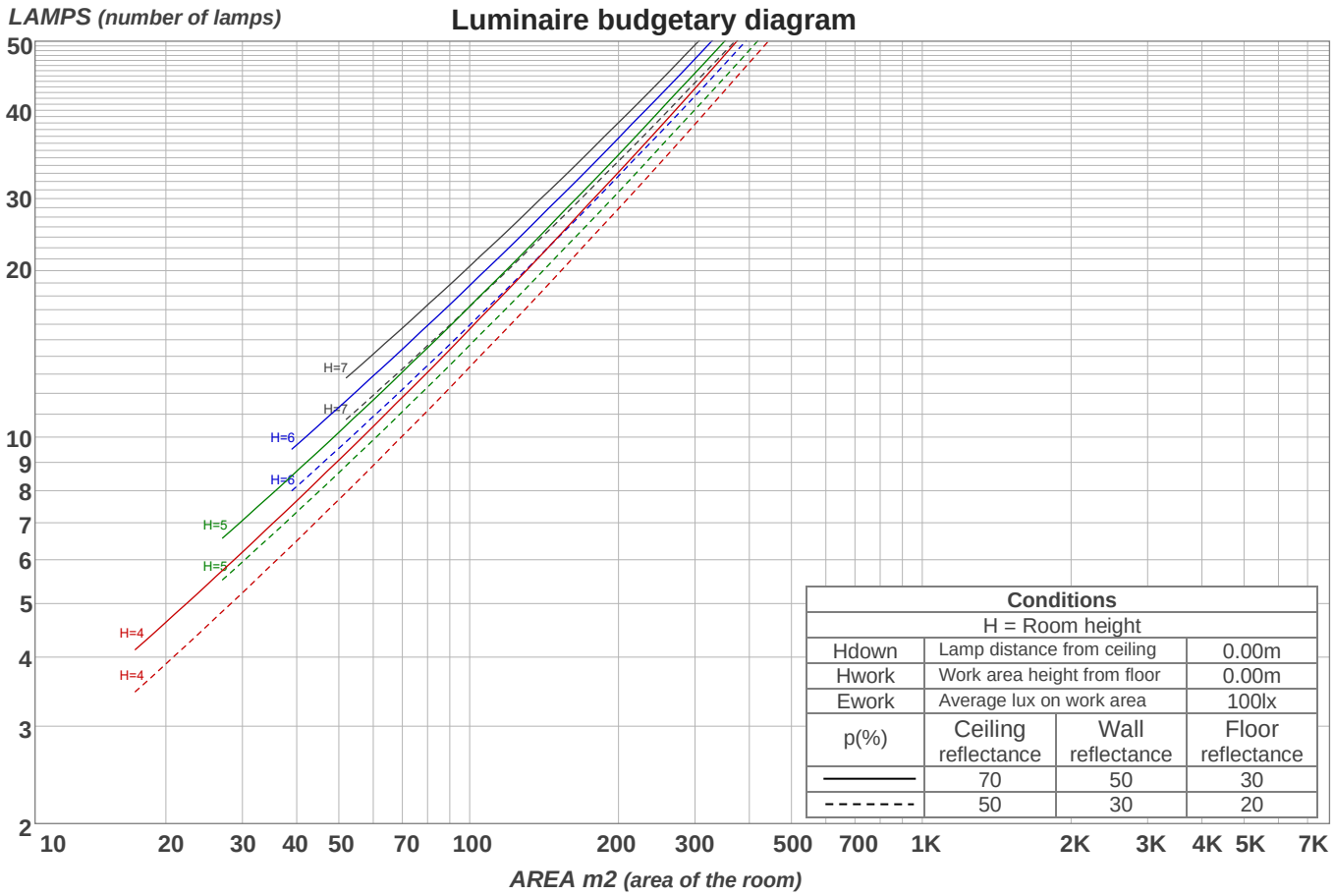
Glare Evaluation According to UGR

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	15,5	16,5	15,7	16,8	17,0	23,4	24,4	23,6	24,7	24,9
	3H	17,8	18,9	18,2	19,1	19,3	24,1	25,1	24,5	25,4	25,6
	4H	19,7	20,8	20,1	21,0	21,3	24,4	25,4	24,8	25,6	25,9
	6H	21,0	21,9	21,3	22,2	22,6	24,6	25,5	24,9	25,8	26,2
	8H	21,3	22,1	21,6	22,4	22,8	24,7	25,5	25,0	25,8	26,2
	12H	21,4	22,2	21,7	22,5	23,0	24,7	25,5	25,1	25,9	26,3
4H	2H	16,3	17,3	16,7	17,5	17,8	23,2	24,2	23,6	24,5	24,7
	3H	18,9	19,7	19,2	20,0	20,5	24,1	24,9	24,5	25,3	25,7
	4H	20,9	21,7	21,4	22,1	22,6	24,4	25,2	24,8	25,6	26,1
	6H	22,3	23,1	22,8	23,4	23,8	24,7	25,5	25,2	25,8	26,2
	8H	22,6	23,3	23,1	23,7	24,0	24,8	25,5	25,3	25,9	26,2
	12H	22,8	23,3	23,3	23,8	24,2	24,9	25,4	25,4	25,9	26,3
8H	4H	21,3	22,0	21,8	22,4	22,8	24,5	25,1	25,0	25,5	25,9
	6H	23,0	23,5	23,5	24,0	24,5	24,9	25,4	25,4	25,9	26,4
	8H	23,4	23,8	23,9	24,4	25,0	25,1	25,5	25,6	26,0	26,7
	12H	23,6	24,0	24,2	24,5	25,1	25,2	25,6	25,8	26,1	26,7
12H	4H	21,4	21,9	21,9	22,4	22,8	24,5	25,0	25,0	25,4	25,9
	6H	23,1	23,6	23,6	24,1	24,7	25,0	25,4	25,5	25,9	26,6
	8H	23,6	23,9	24,2	24,5	25,1	25,2	25,6	25,8	26,1	26,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					1,1 / -1,0				
S = 1.5H		0,1 / -0,1					2,5 / -1,9				
S = 2.0H		0,3 / -0,3					3,9 / -2,6				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 975 lm total luminous flux											

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	110	110	110	105	105	105	100	100	100	98
1	110	106	102	99	107	103	100	97	99	96	93	95	92	90	91	89	87	85
2	102	95	89	84	99	93	88	83	89	85	81	86	82	79	82	79	77	75
3	95	86	79	74	92	84	78	73	81	76	71	78	74	70	76	72	69	66
4	88	78	71	65	86	77	70	65	74	68	64	72	67	63	70	65	62	60
5	83	72	64	59	81	71	64	58	69	62	58	67	61	57	65	60	56	54
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	60	55	52	50
7	73	62	54	49	72	61	54	49	59	53	48	58	52	48	56	51	48	46
8	69	58	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42
9	65	54	47	42	64	53	47	42	52	46	42	51	45	41	50	45	41	39
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	47	42	38	37

Luminaire budgetary diagram

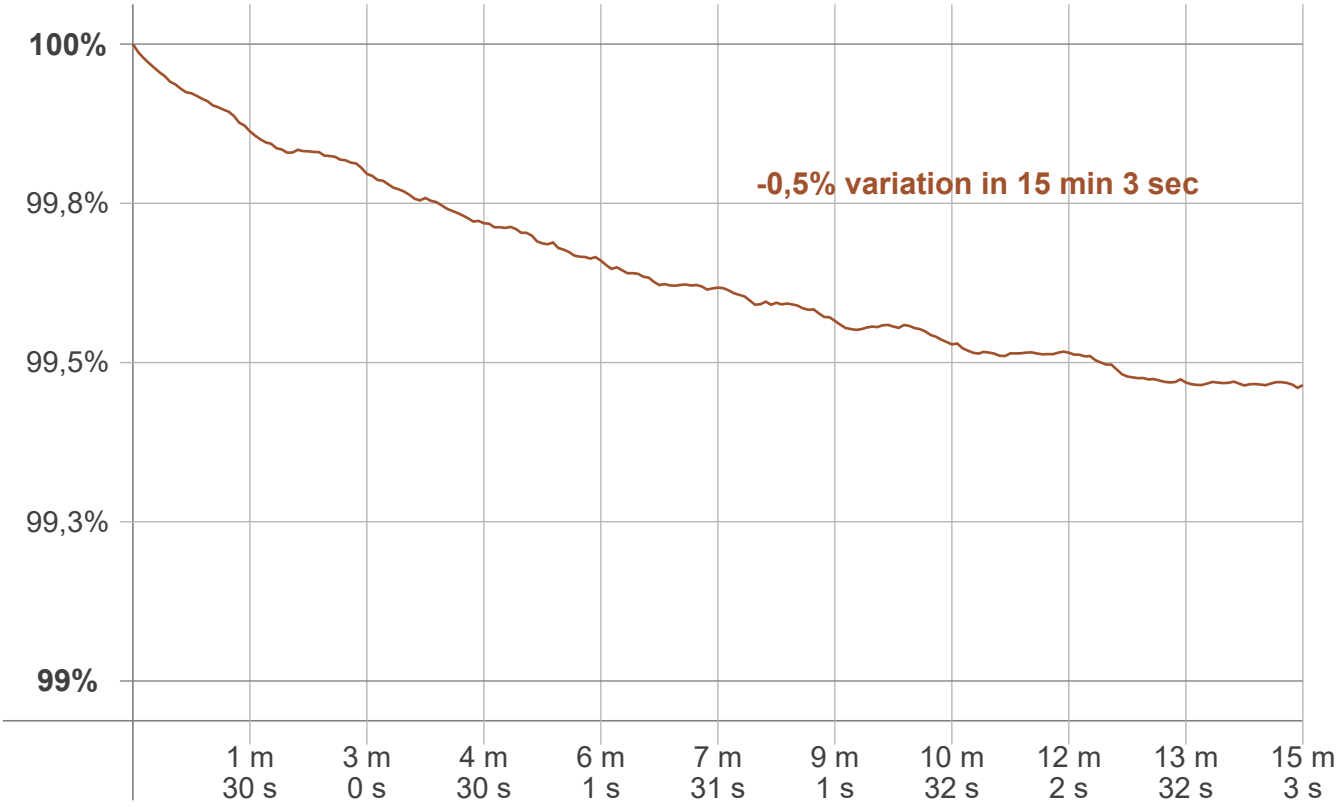


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
82,7 lm	193 lm	191 lm	152 lm	115 lm	87,1 lm	61,3 lm	49,9 lm	24,3 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
6,91 lm	2,64 lm	2,29 lm	2,07 lm	1,69 lm	1,30 lm	0,959 lm	0,587 lm	0,198 lm

Warmup curve



Warmup result

Warmup time:	**Lamp stabilized in 15 min 3 sec**
Warmup variation	**-0,5%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
6506 K	-6 K	6500 K

Output change

Output start	Output change	Output end
981 lm	-6 lm	975 lm