Light efficiency:

102 Lumen/Watt

Light quality:

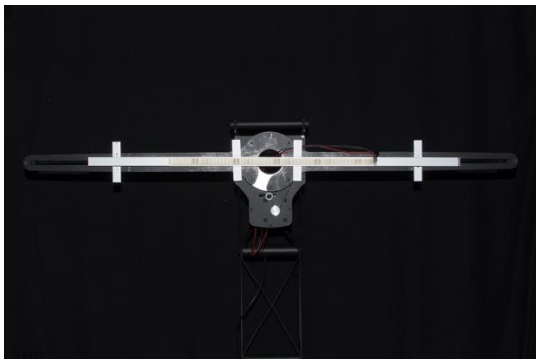
CRI: 93,0

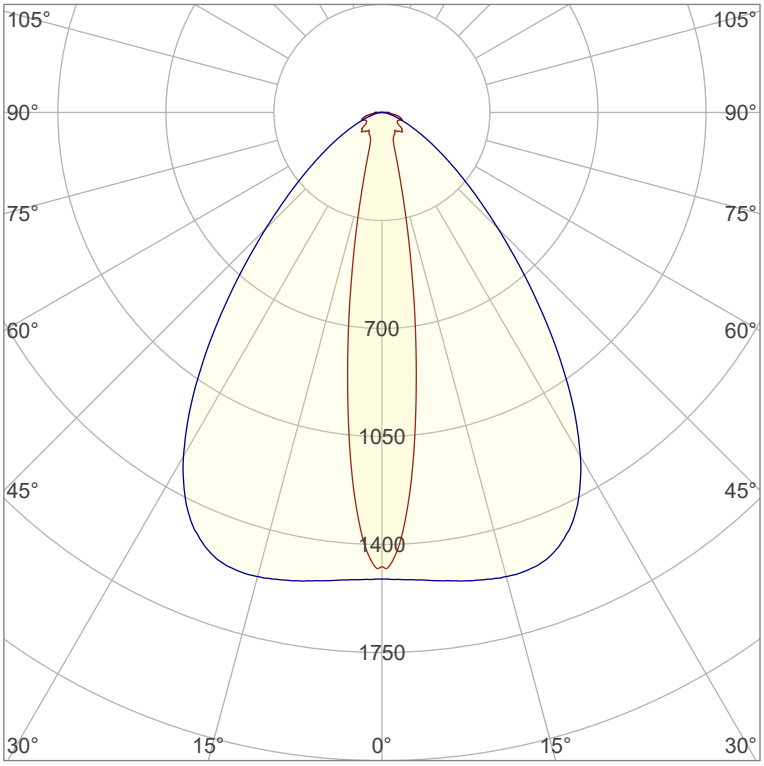
Color temperature:

6500 K

Output: 975 lm
Peak: 1559 cd

Power: 9,6 W
PF: 1,0





Product name:
Pegasus-5_510mm_965_Lens-15°-Frosted

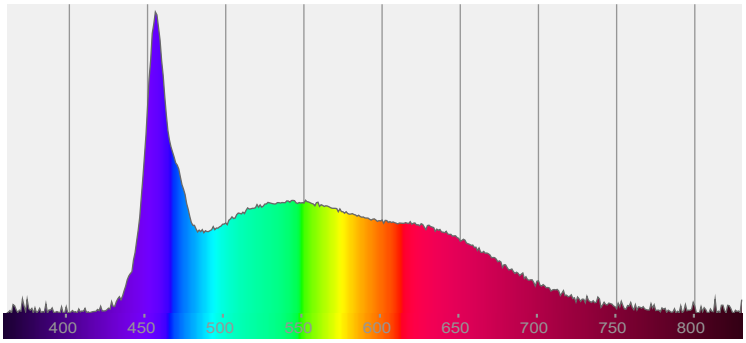
Item number:
NP/L2C/09E/0510/965/L1F

Date and time:
22.05.2025 16:05:14

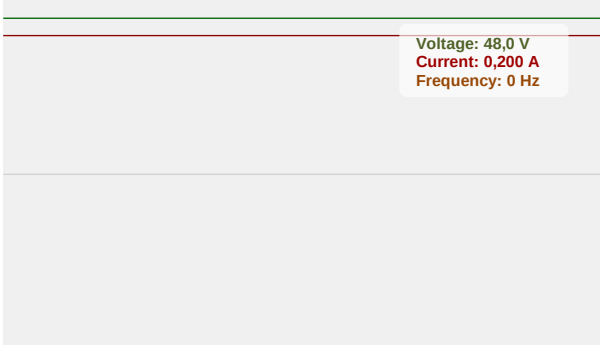
Description:
Tolerances:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Kelvin
CRI +/-0,7
Angular Resolution: 1 Degree Step
Last Calibration 13.10.2023
Tester:
Peter Ulrich
Test Site:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

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

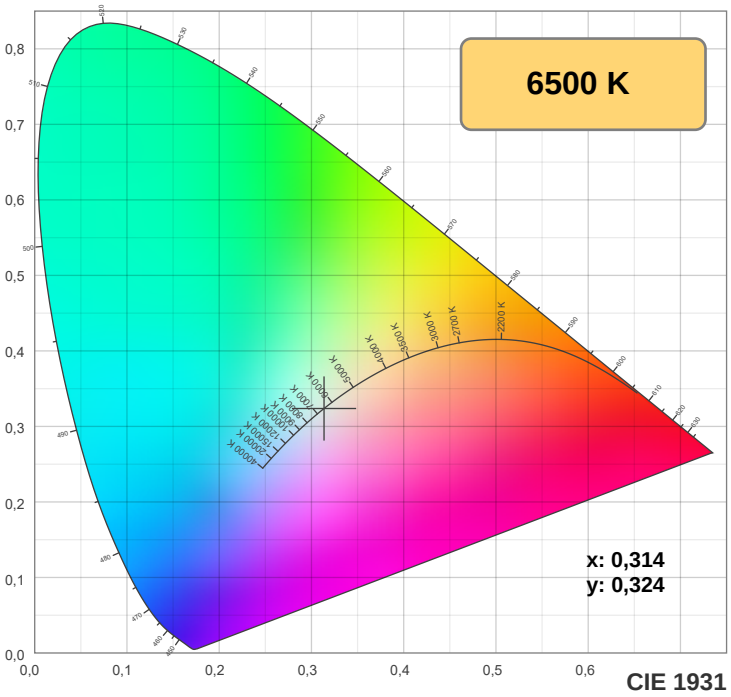
Spectra



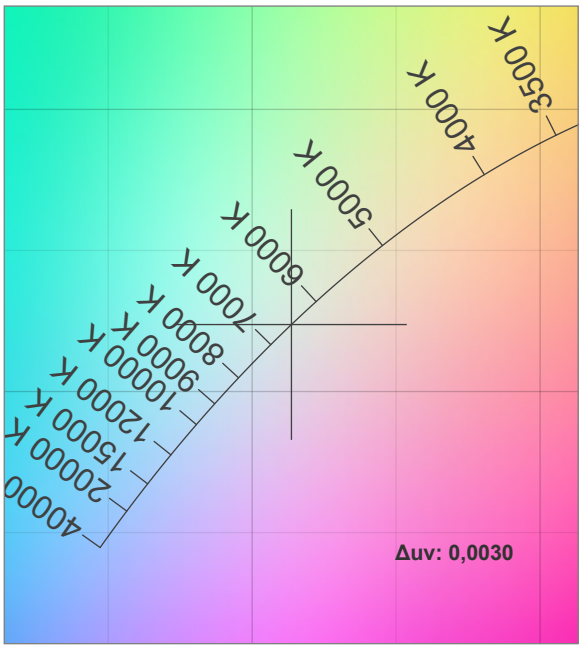
Power



Color details

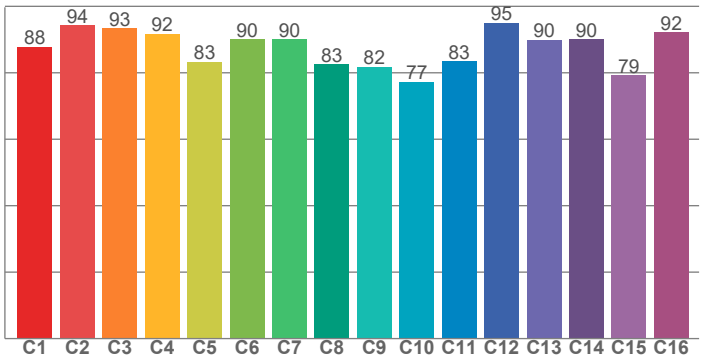


CIE 1931

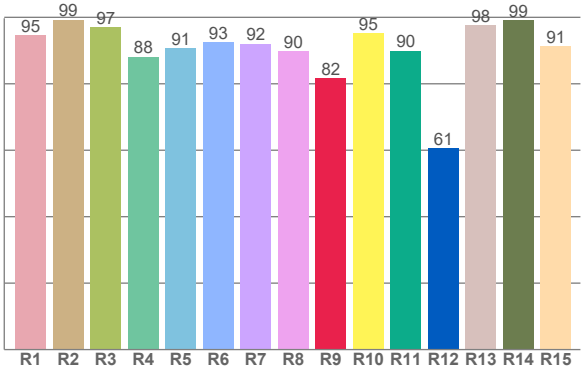


CIE 1931 ZOOM

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
94,7	99,3	97,0	88,1	90,6	92,5	92,0	89,7	81,6	95,3	90,0	60,7	97,6	99,1	91,4

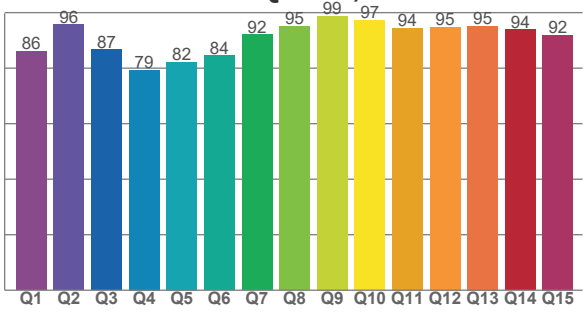
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,8	94,3	93,3	91,7	83,3	90,0	90,0	82,6	81,7	77,2	83,4	95,1	89,8	90,0	79,2	92,1

CQS Q values

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

CQS: 89,5



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	81,6	87,1	94,9	89,5	0,314	0,324	0,200	0,310	0,0030

TM30 details

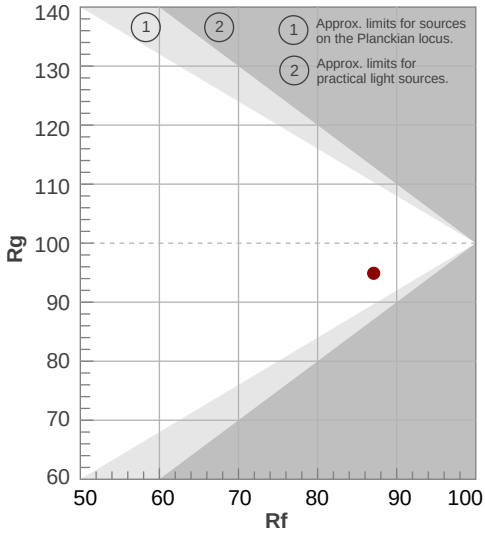
Rf 87,1

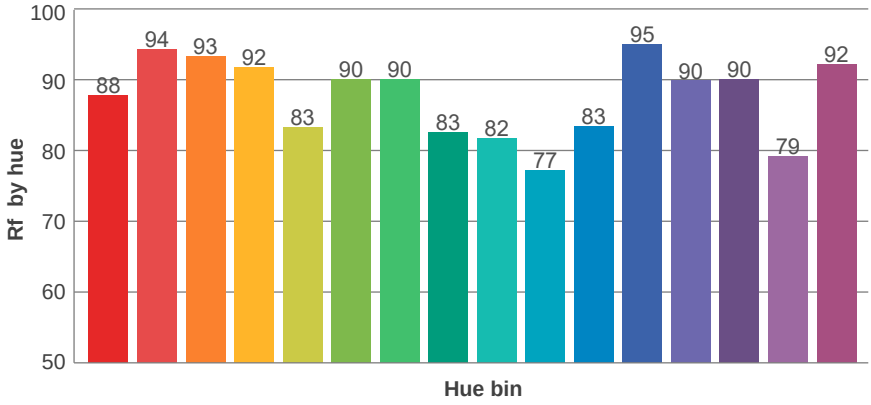
Fidelity index Rf

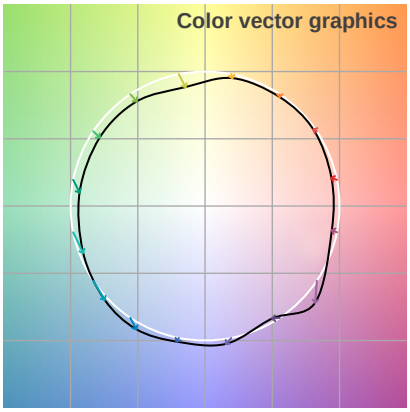
Rg 94,9

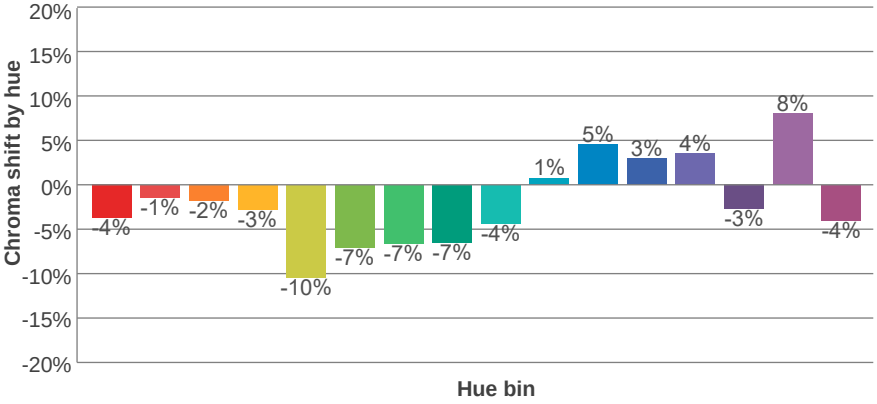
Gammut index Rg

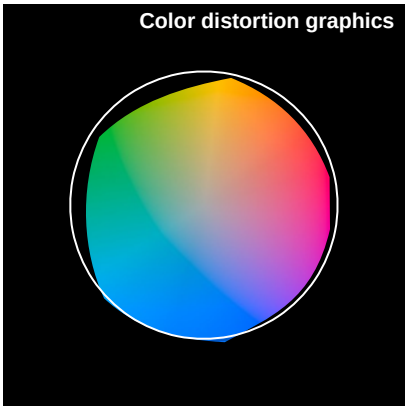
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	88	-4%	2%
2	94	-1%	3%
3	93	-2%	-1%
4	92	-3%	-1%
5	83	-10%	-3%
6	90	-7%	-1%
7	90	-7%	1%
8	83	-7%	8%
9	82	-4%	16%
10	77	1%	16%
11	83	5%	8%
12	95	3%	-1%
13	90	4%	-5%
14	90	-3%	-5%
15	79	8%	-14%
16	92	-4%	1%

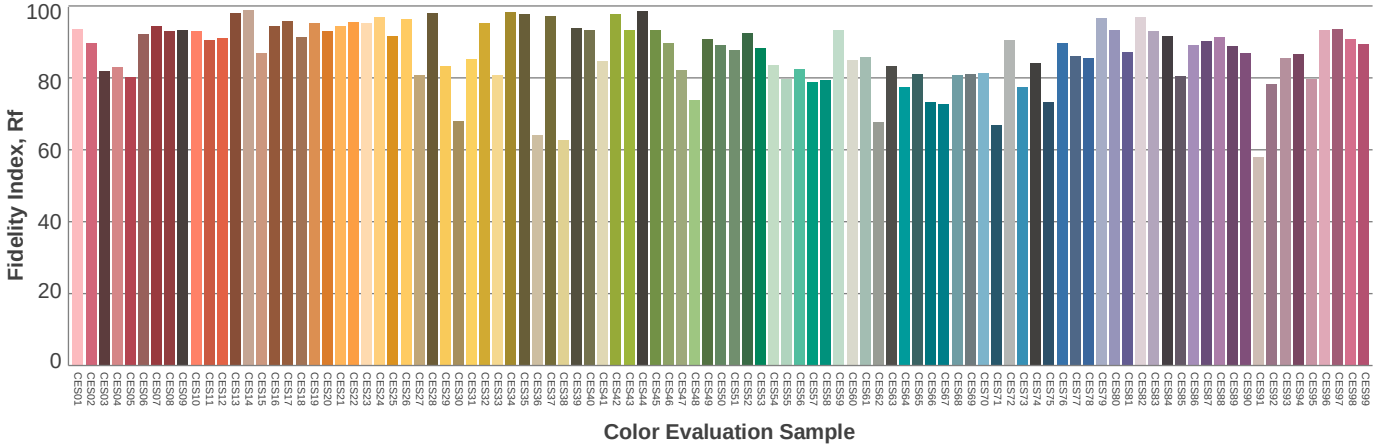




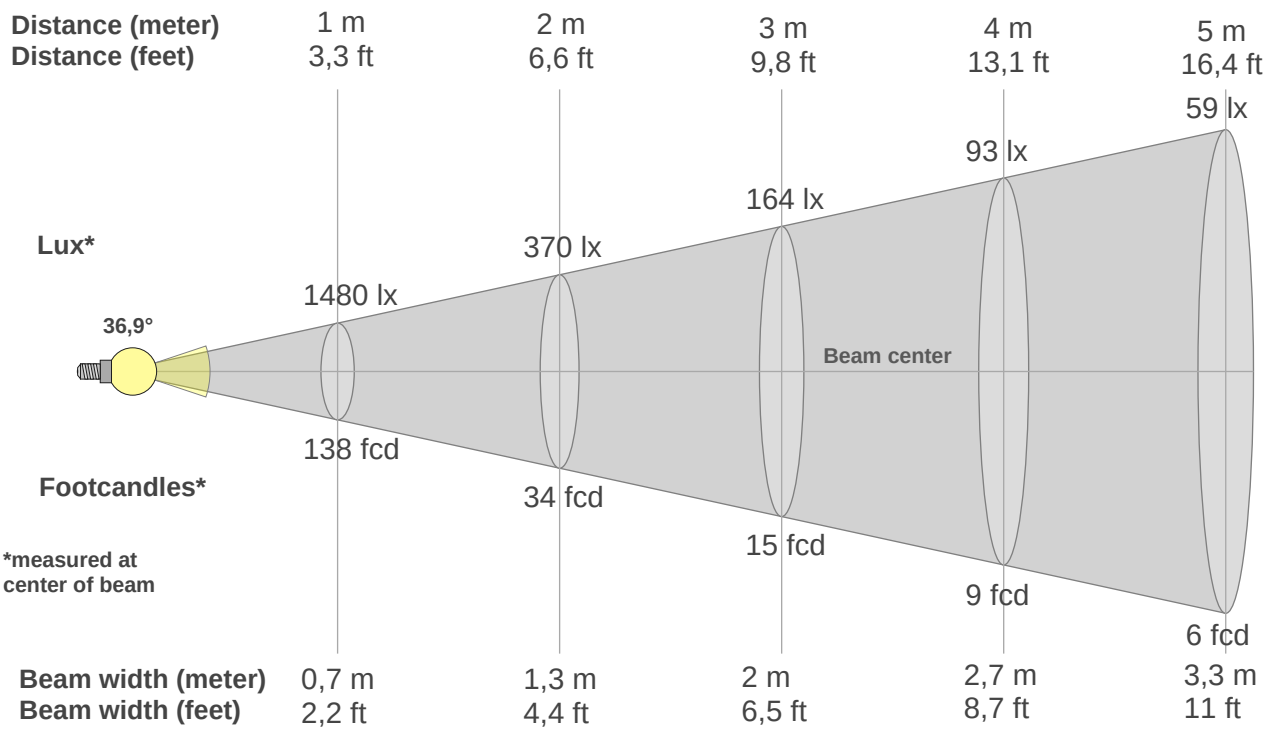








Beam details



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
1480lx	370lx	164lx	93lx	59lx	41lx	30lx	23lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
137,5fc	34,4fcd	15,3fcd	8,6fcd	5,5fcd	3,8fcd	2,8fcd	2,1fcd	1,7fcd	1,4fcd	1,1fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd

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°
1480	1420	1254	1029	796	585	412	283	198	146	114	99	91	86	84	82	79	74	72	76
100%	96%	85%	70%	54%	39%	28%	19%	13%	10%	8%	7%	6%	6%	6%	6%	5%	5%	5%	5%

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°
1480	1514	1518	1525	1532	1541	1548	1555	1558	1555	1545	1521	1485	1435	1367	1286	1190	1086	977	867
100%	102%	103%	103%	103%	104%	105%	105%	105%	105%	104%	103%	100%	97%	92%	87%	80%	73%	66%	59%

Intensities in 180° c-plane

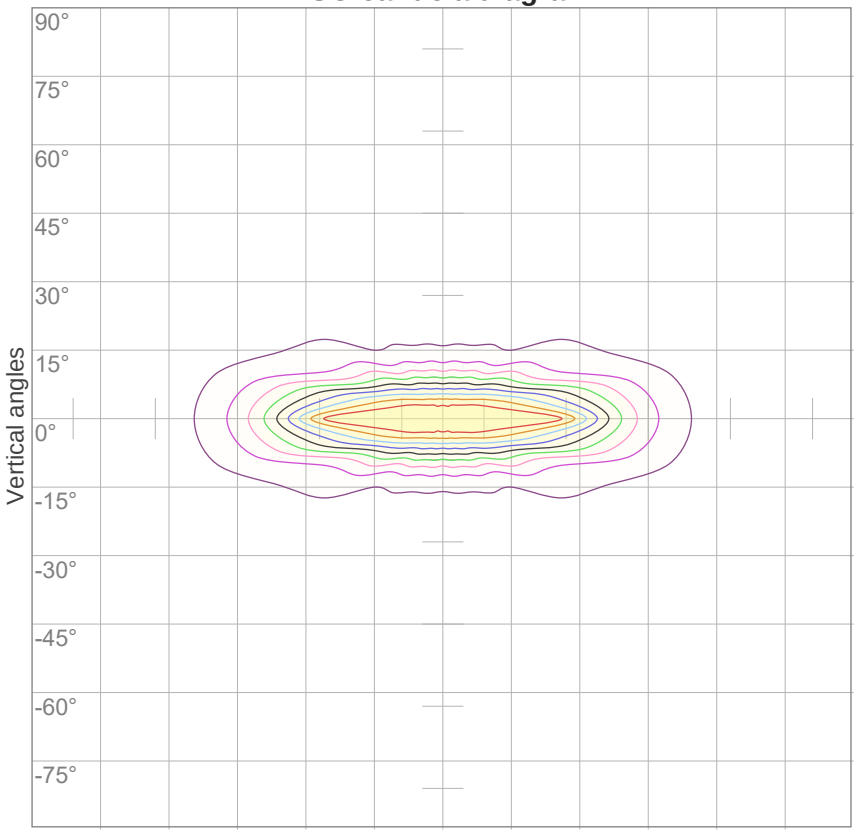
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1480	1420	1254	1029	796	585	412	283	198	146	114	99	91	86	84	82	79	74	72	76
100%	96%	85%	70%	54%	39%	28%	19%	13%	10%	8%	7%	6%	6%	6%	6%	5%	5%	5%	5%

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°
1480	1514	1518	1525	1532	1541	1548	1555	1558	1555	1545	1521	1485	1435	1367	1286	1190	1086	977	867
100%	102%	103%	103%	103%	104%	105%	105%	105%	105%	104%	103%	100%	97%	92%	87%	80%	73%	66%	59%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36,9°	**70,2°**	**151,2°**	**83,3%**	**69,4%**

ISO candela diagram



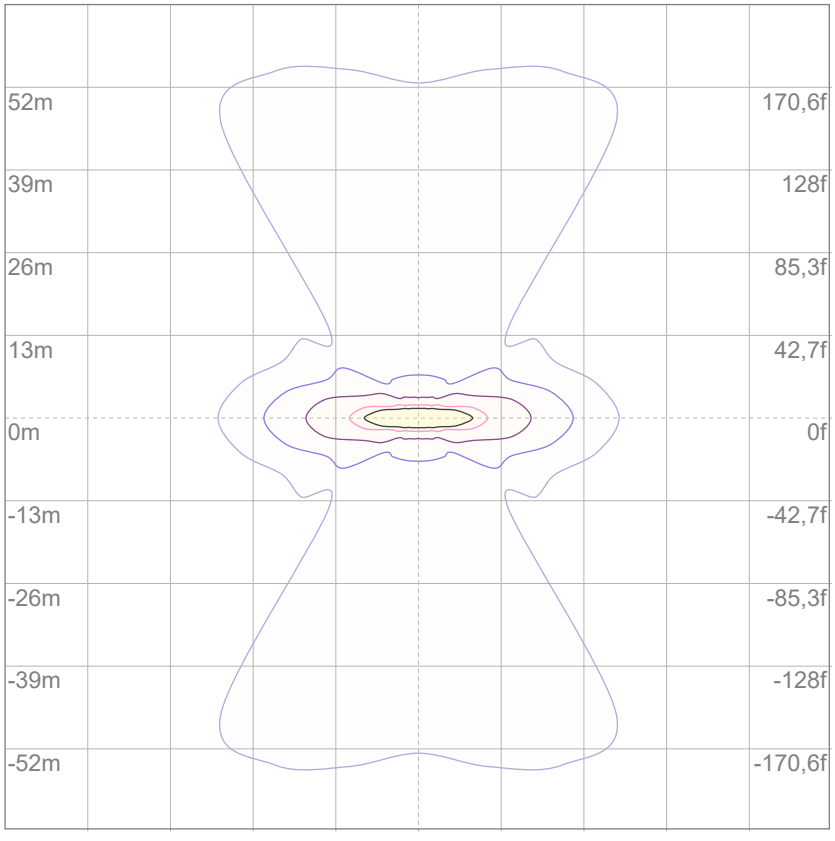
10%	148 cd
20%	296 cd
30%	444 cd
40%	592 cd
50%	740 cd
60%	888 cd
70%	1036 cd
80%	1184 cd
90%	1332 cd

Conditions:

Number of c-planes: 16

Candela at center: 1480 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,444 lx
5%	0,740 lx
10%	1,48 lx
30%	4,44 lx
50%	7,40 lx

Conditions:

Number of c-planes: 16

Lux at center: 14,8 lx

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

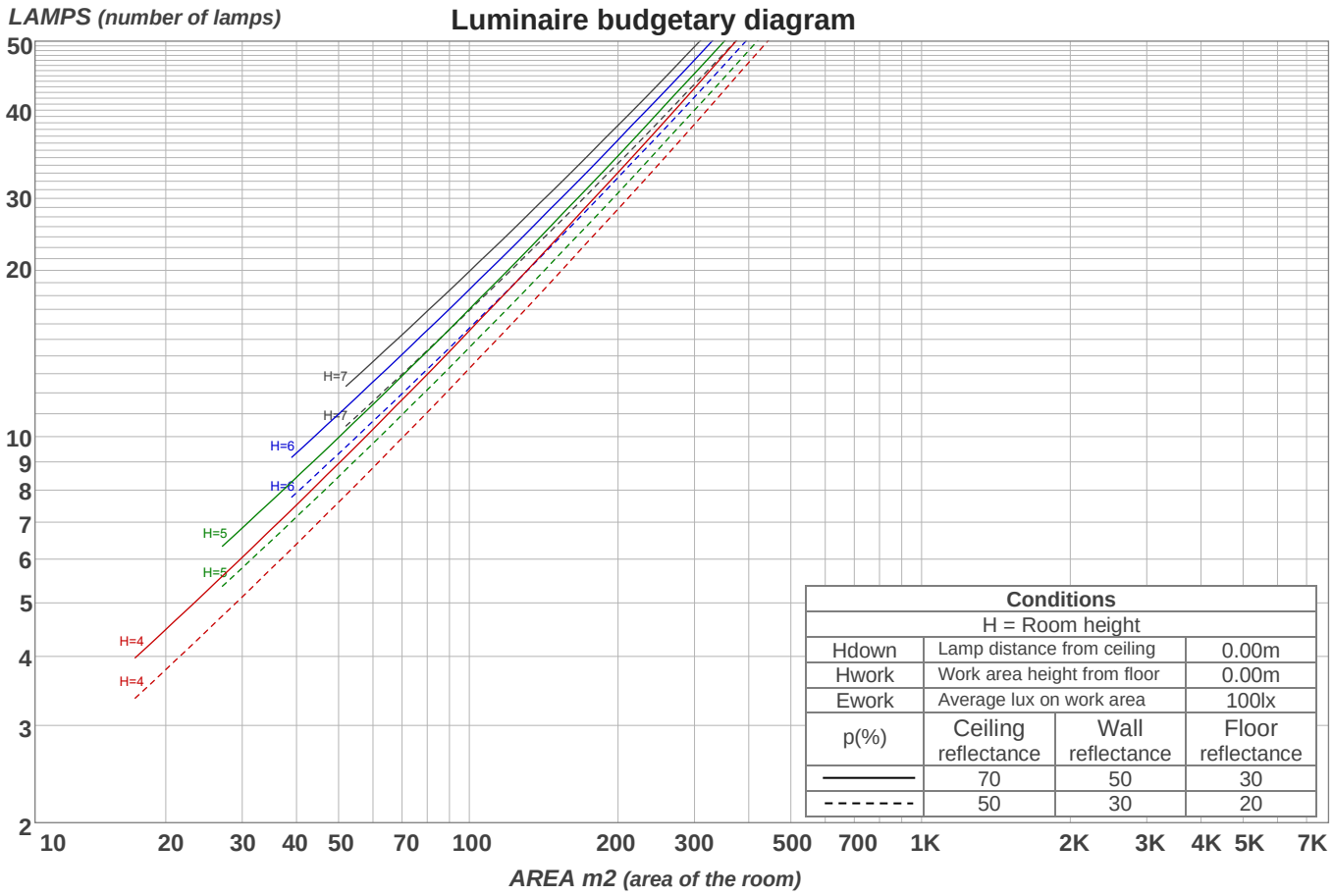
Glare Evaluation According to UGR

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	15,1	16,0	15,3	16,3	16,5	22,9	23,9	23,1	24,1	24,3
	3H	17,6	18,6	18,0	18,9	19,1	23,3	24,4	23,7	24,6	24,8
	4H	19,0	20,0	19,4	20,2	20,5	23,5	24,5	23,9	24,8	25,0
	6H	20,0	20,9	20,3	21,2	21,5	23,7	24,6	24,0	24,8	25,2
	8H	20,3	21,1	20,6	21,4	21,8	23,7	24,6	24,1	24,9	25,3
	12H	20,4	21,2	20,8	21,6	22,0	23,7	24,5	24,1	24,9	25,3
4H	2H	15,7	16,7	16,1	17,0	17,2	22,7	23,7	23,1	23,9	24,2
	3H	18,6	19,4	19,0	19,7	20,2	23,3	24,1	23,7	24,5	24,9
	4H	20,1	20,8	20,5	21,3	21,8	23,5	24,3	24,0	24,7	25,2
	6H	21,3	22,0	21,8	22,4	22,7	23,7	24,5	24,2	24,8	25,2
	8H	21,6	22,3	22,1	22,6	23,0	23,8	24,5	24,3	24,9	25,2
	12H	21,8	22,4	22,3	22,8	23,3	23,9	24,4	24,4	24,8	25,3
8H	4H	20,5	21,1	21,0	21,5	21,9	23,6	24,3	24,1	24,6	25,0
	6H	21,9	22,4	22,4	22,9	23,4	23,9	24,4	24,4	24,9	25,4
	8H	22,4	22,8	22,9	23,3	24,0	24,1	24,5	24,6	25,0	25,7
	12H	22,7	23,1	23,3	23,6	24,2	24,2	24,6	24,8	25,1	25,7
12H	4H	20,5	21,0	21,0	21,5	21,9	23,6	24,1	24,1	24,6	25,0
	6H	22,0	22,5	22,5	23,0	23,6	24,0	24,4	24,5	25,0	25,6
	8H	22,6	22,9	23,2	23,5	24,1	24,2	24,6	24,8	25,1	25,7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / -0,1					1,4 / -1,4				
S = 1.5H		0,2 / -0,2					3,1 / -2,2				
S = 2.0H		0,3 / -0,2					4,6 / -2,8				
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	110	105	102	98	107	103	100	97	98	95	93	94	91	89	90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81	85	82	79	82	79	76	74
3	95	86	80	74	92	85	78	73	81	76	72	78	74	70	75	72	69	66
4	89	79	72	66	86	78	71	66	75	69	64	72	67	63	70	66	62	60
5	83	73	65	60	81	72	65	59	69	63	59	67	62	58	65	60	57	55
6	78	67	60	55	77	66	59	54	64	58	54	63	57	53	61	56	52	51
7	74	63	56	50	72	62	55	50	60	54	50	59	53	49	57	52	49	47
8	70	59	52	47	69	58	51	47	57	51	46	55	50	46	54	49	45	44
9	67	55	48	44	65	55	48	44	53	47	43	52	47	43	51	46	43	41
10	63	52	46	41	62	52	45	41	50	45	41	49	44	40	48	44	40	39

Luminaire budgetary diagram

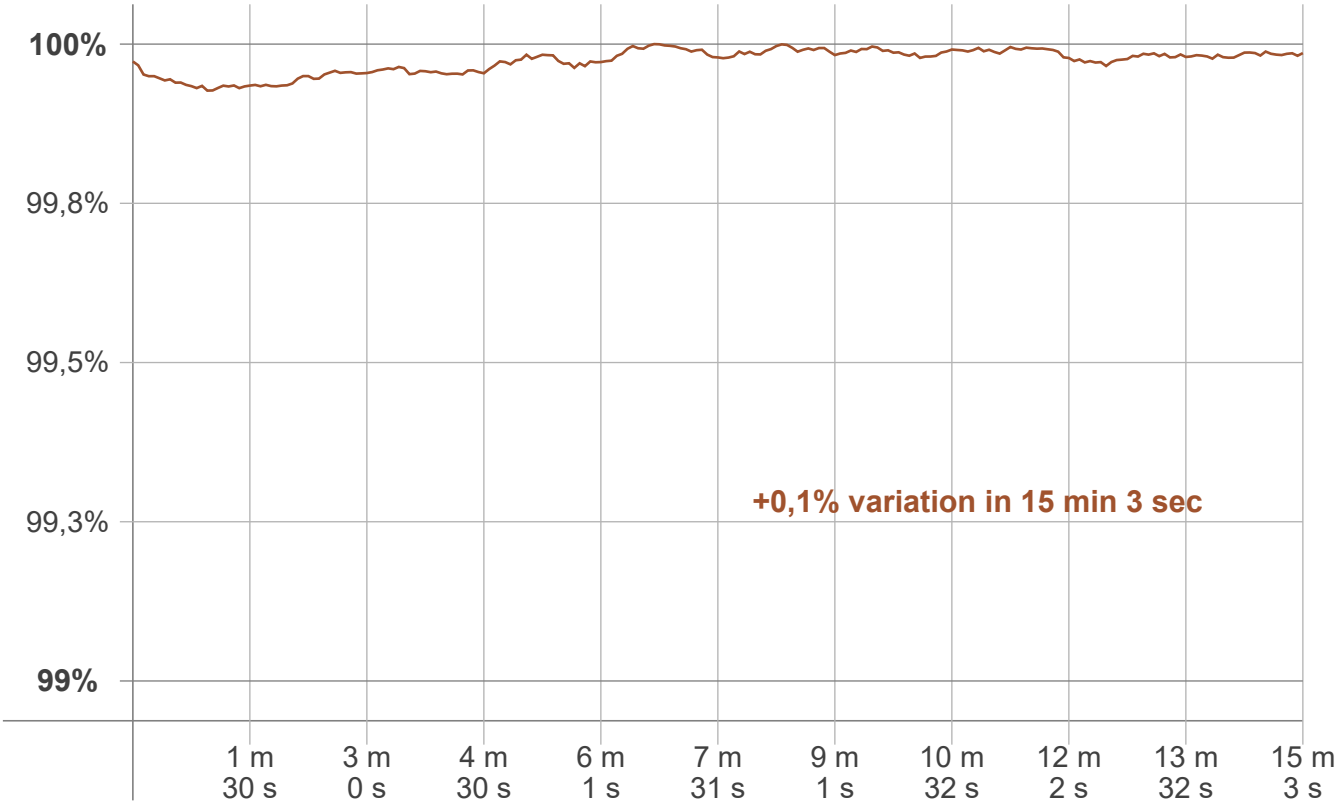


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
114 lm	189 lm	169 lm	144 lm	113 lm	83,0 lm	56,2 lm	44,9 lm	27,8 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
6,06 lm	5,86 lm	5,50 lm	4,97 lm	11,3 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm

Warmup curve



Warmup result

Warmup time:	**Lamp stabilized in 15 min 3 sec**
Warmup variation	**+0,1%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
6498 K	+2 K	6500 K

Output change

Output start	Output change	Output end
975 lm	+ lm	975 lm