Light efficiency:

104 Lumen/Watt

Light quality:

CRI: 93,3

Color temperature:

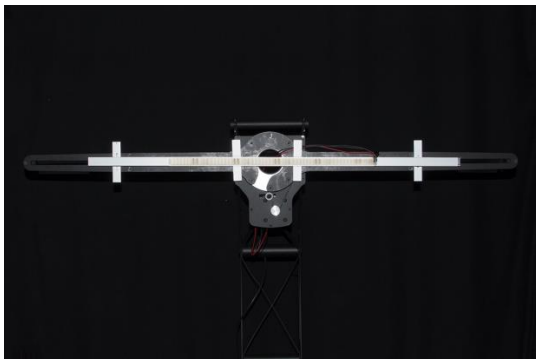
6500 K

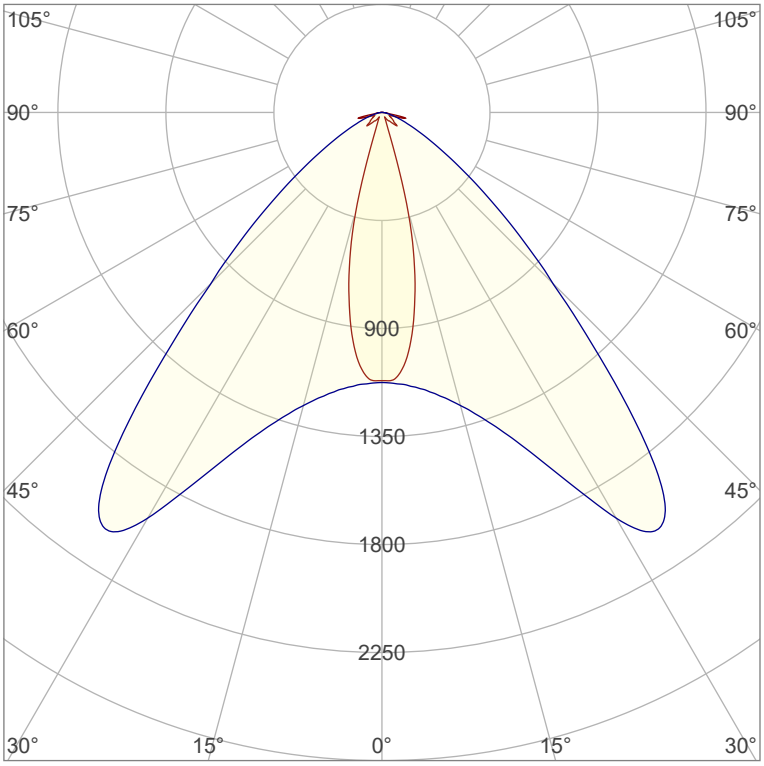
Output: 998 lm

Peak: 2081 cd

Power: 9,6 W

PF: 1,0





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

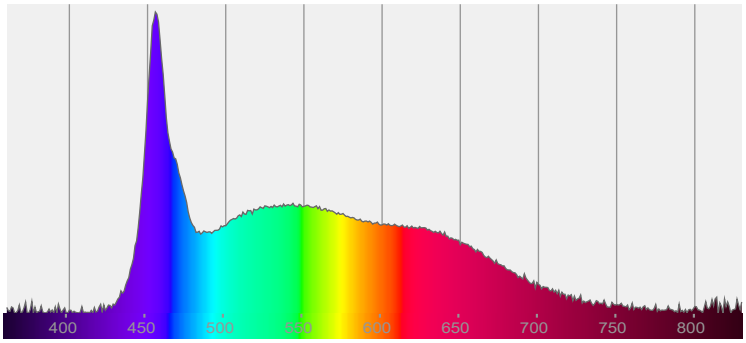
Item number:
NP/L2C/09E/0510/965/L3T

Date and time:
11.04.2025 12:42:20

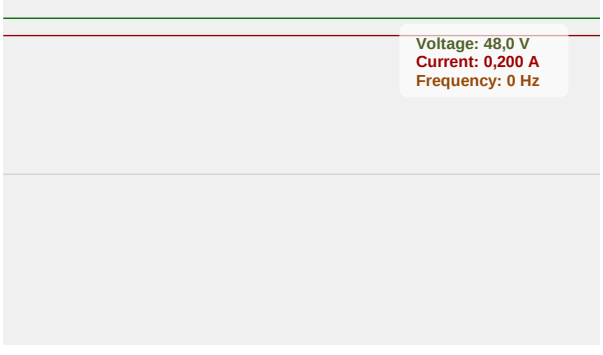
Description:
Tolerances:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Kelvin
CRI +/-0,7
Angular Resolution: 1 Degree Step
Last Calibration 13.10.2023
Tester:
Peter Ulrich
Test Site:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

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

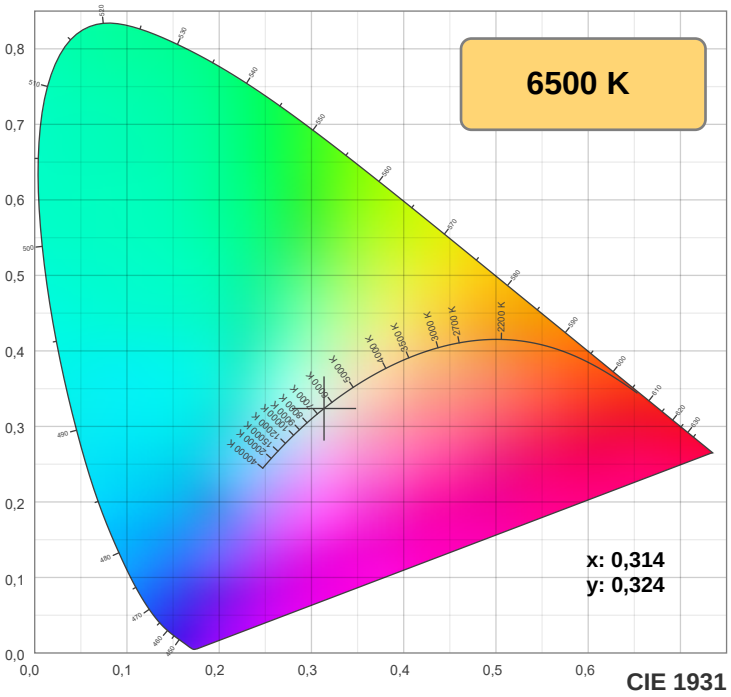
Spectra



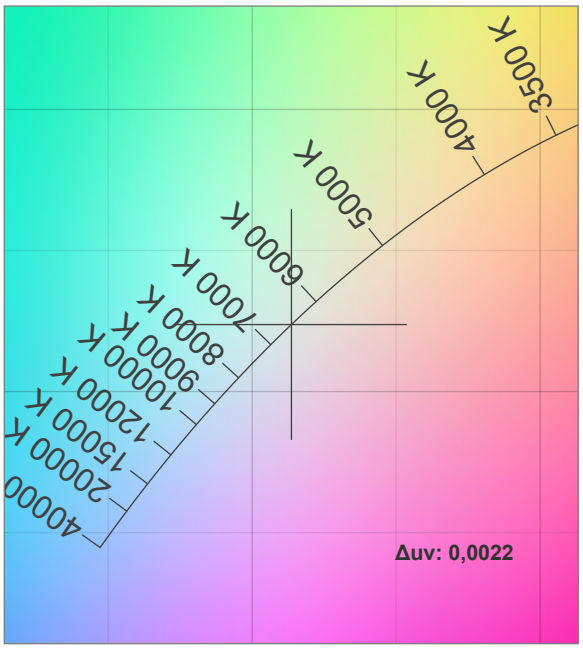
Power



Color details

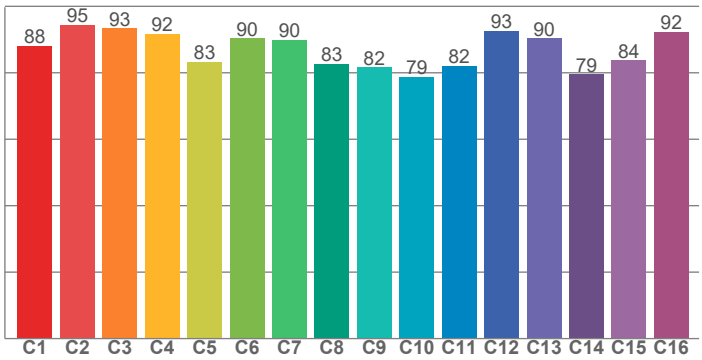


CIE 1931

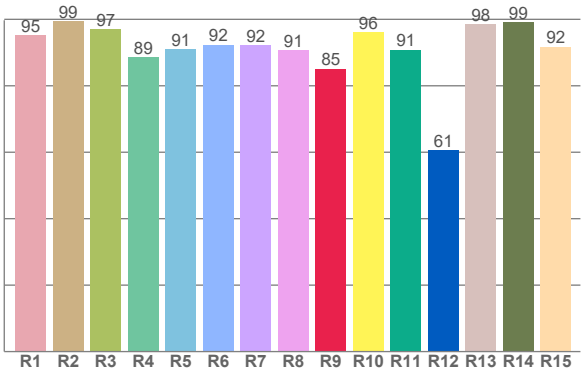


CIE 1931 ZOOM

TM30: 87,2



CRI: 93,3 (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
95,2	99,4	97,0	88,7	91,0	92,4	92,2	90,6	85,1	96,1	90,8	60,7	98,4	99,1	91,8

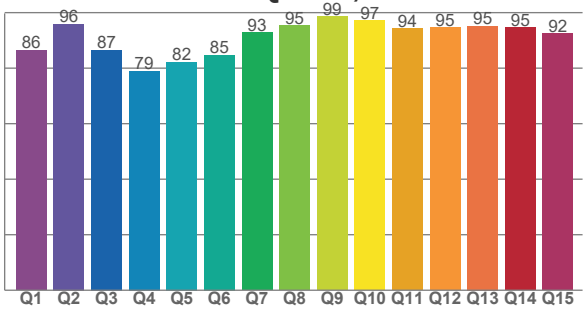
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,2	94,5	93,4	91,7	83,3	90,3	89,9	82,7	81,7	78,7	82,0	92,7	90,4	79,5	83,8	92,4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
86,4	96,0	86,5	79,1	82,2	84,8	92,9	95,4	98,6	97,1	94,3	94,6	95,3	94,6	92,4

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	93,3	85,1	87,2	95,6	89,6	0,314	0,324	0,200	0,310	0,0022

TM30 details

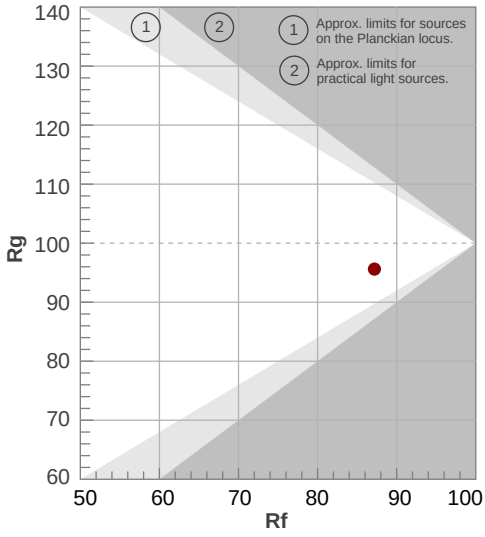
Rf 87,2

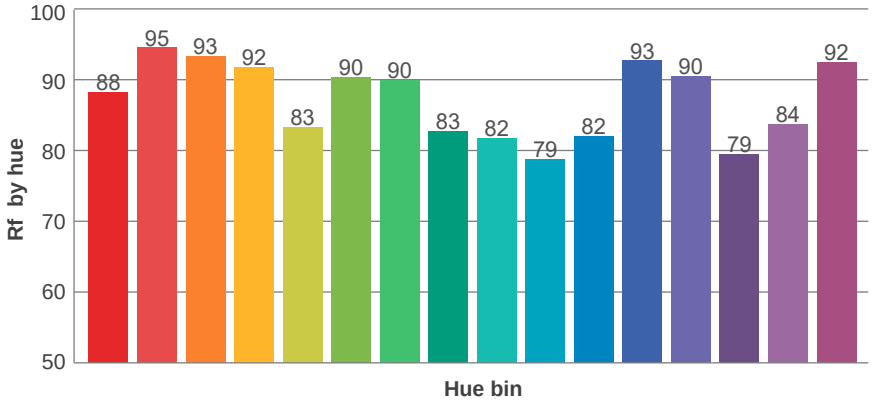
Fidelity index Rf

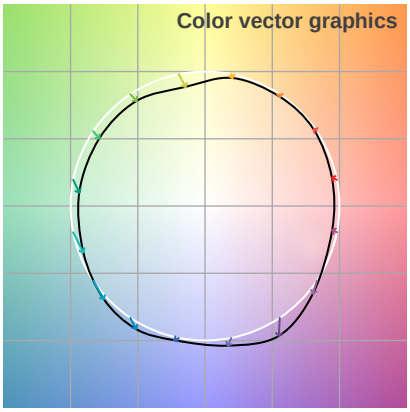
Rg 95,6

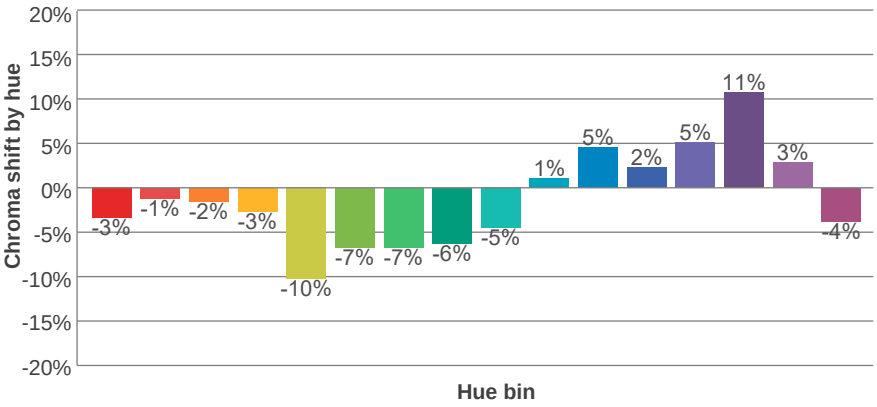
Gammut index Rg

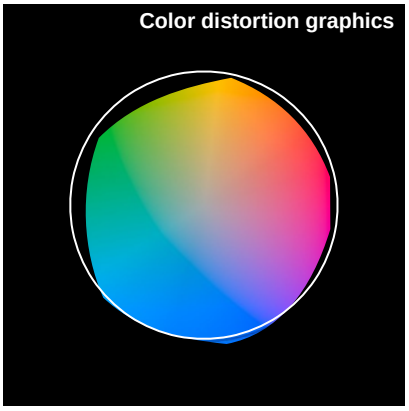
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	88	-3%	2%
2	95	-1%	3%
3	93	-2%	-1%
4	92	-3%	-1%
5	83	-10%	-3%
6	90	-7%	-1%
7	90	-7%	2%
8	83	-6%	8%
9	82	-5%	16%
10	79	1%	16%
11	82	5%	8%
12	93	2%	-3%
13	90	5%	-4%
14	79	11%	-8%
15	84	3%	-9%
16	92	-4%	1%

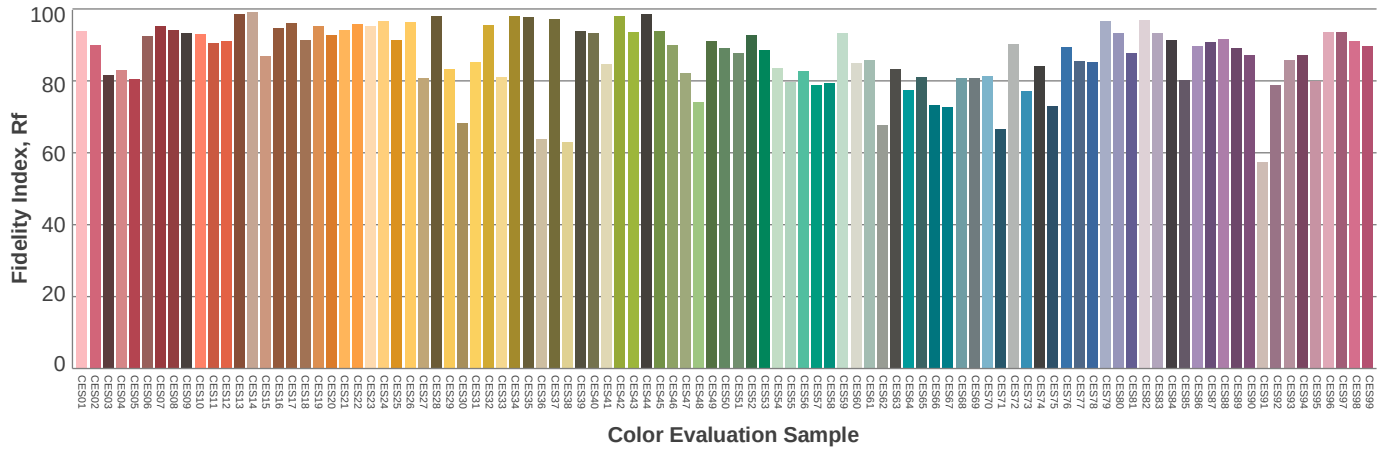




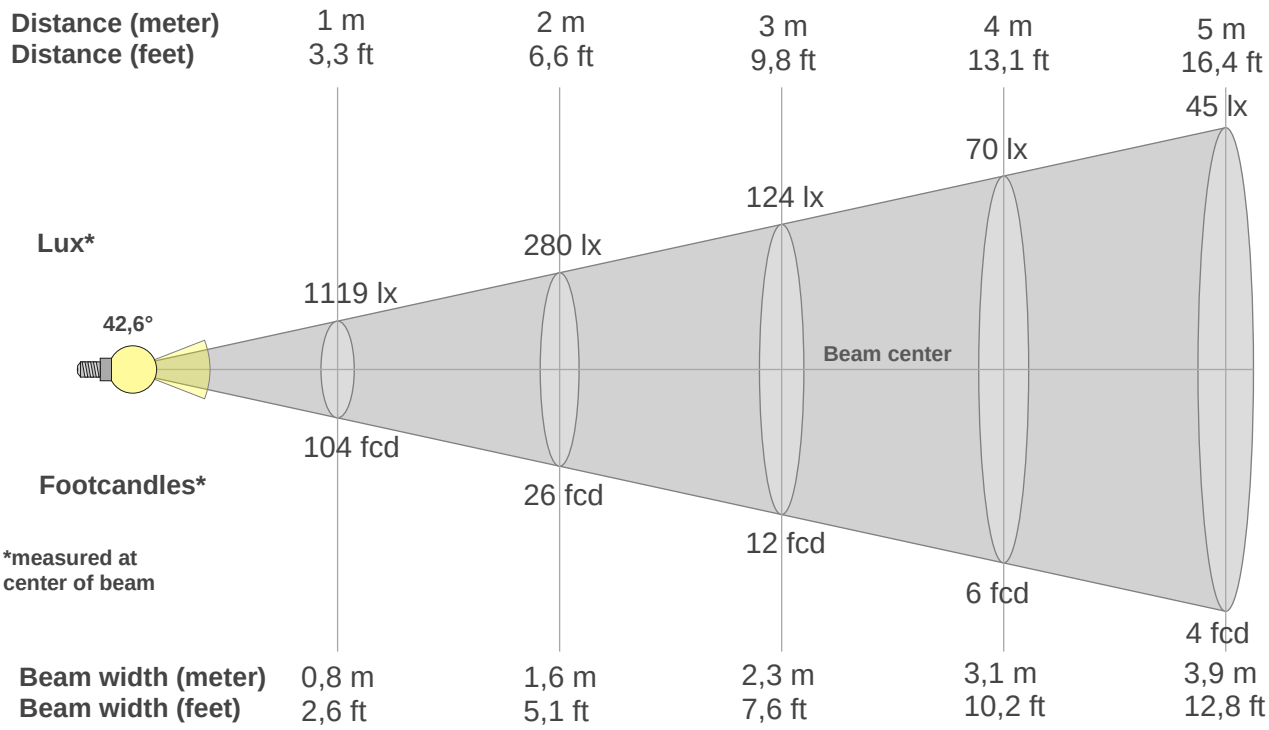








Beam details



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
1119lx	280lx	124lx	70lx	45lx	31lx	23lx	17lx	14lx	11lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx
103,9fc	26fcd	11,5fcd	6,5fcd	4,2fcd	2,9fcd	2,1fcd	1,6fcd	1,3fcd	1fcd	0,9fcd	0,7fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	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°
1119	1116	1086	1017	916	788	650	495	308	148	78	53	41	33	27	23	24	31	38	44
100%	100%	97%	91%	82%	70%	58%	44%	27%	13%	7%	5%	4%	3%	2%	2%	2%	3%	3%	4%

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°
1119	1128	1135	1147	1163	1184	1212	1245	1285	1335	1395	1470	1564	1678	1809	1951	2057	2077	2002	1823
100%	101%	101%	103%	104%	106%	108%	111%	115%	119%	125%	131%	140%	150%	162%	174%	184%	186%	179%	163%

Intensities in 180° c-plane

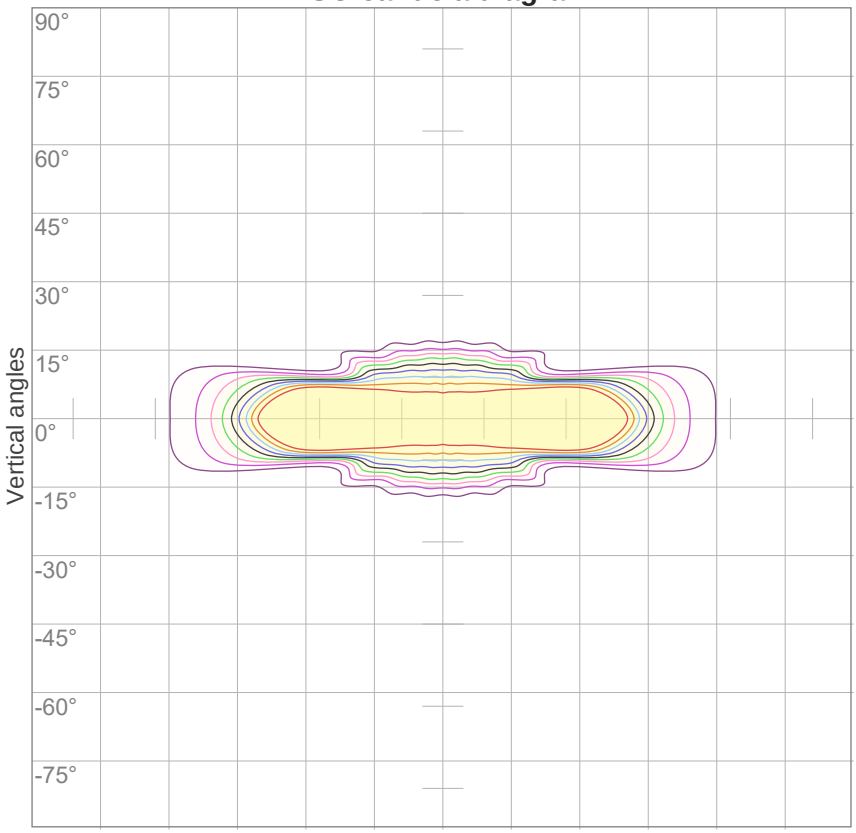
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1119	1116	1086	1017	916	788	650	495	308	148	78	53	41	33	27	23	24	31	38	44
100%	100%	97%	91%	82%	70%	58%	44%	27%	13%	7%	5%	4%	3%	2%	2%	2%	3%	3%	4%

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°
1119	1128	1135	1147	1163	1184	1212	1245	1285	1335	1395	1470	1564	1678	1809	1951	2057	2077	2002	1823
100%	101%	101%	103%	104%	106%	108%	111%	115%	119%	125%	131%	140%	150%	162%	174%	184%	186%	179%	163%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
42,6°	**56,9°**	**156,2°**	**88,3%**	**73,6%**

ISO candela diagram



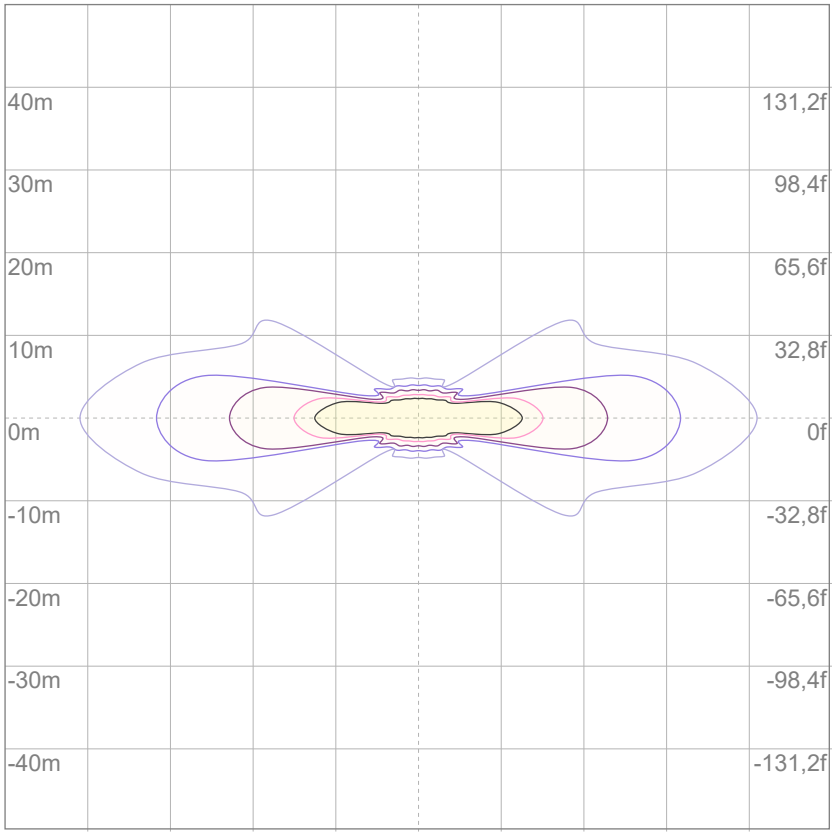
10%	112 cd
20%	224 cd
30%	336 cd
40%	447 cd
50%	559 cd
60%	671 cd
70%	783 cd
80%	895 cd
90%	1007 cd

Conditions:

Number of c-planes: 16

Candela at center: 1119 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,336 lx
5%	0,559 lx
10%	1,12 lx
30%	3,36 lx
50%	5,59 lx

Conditions:

Number of c-planes: 16

Lux at center: 11,2 lx

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

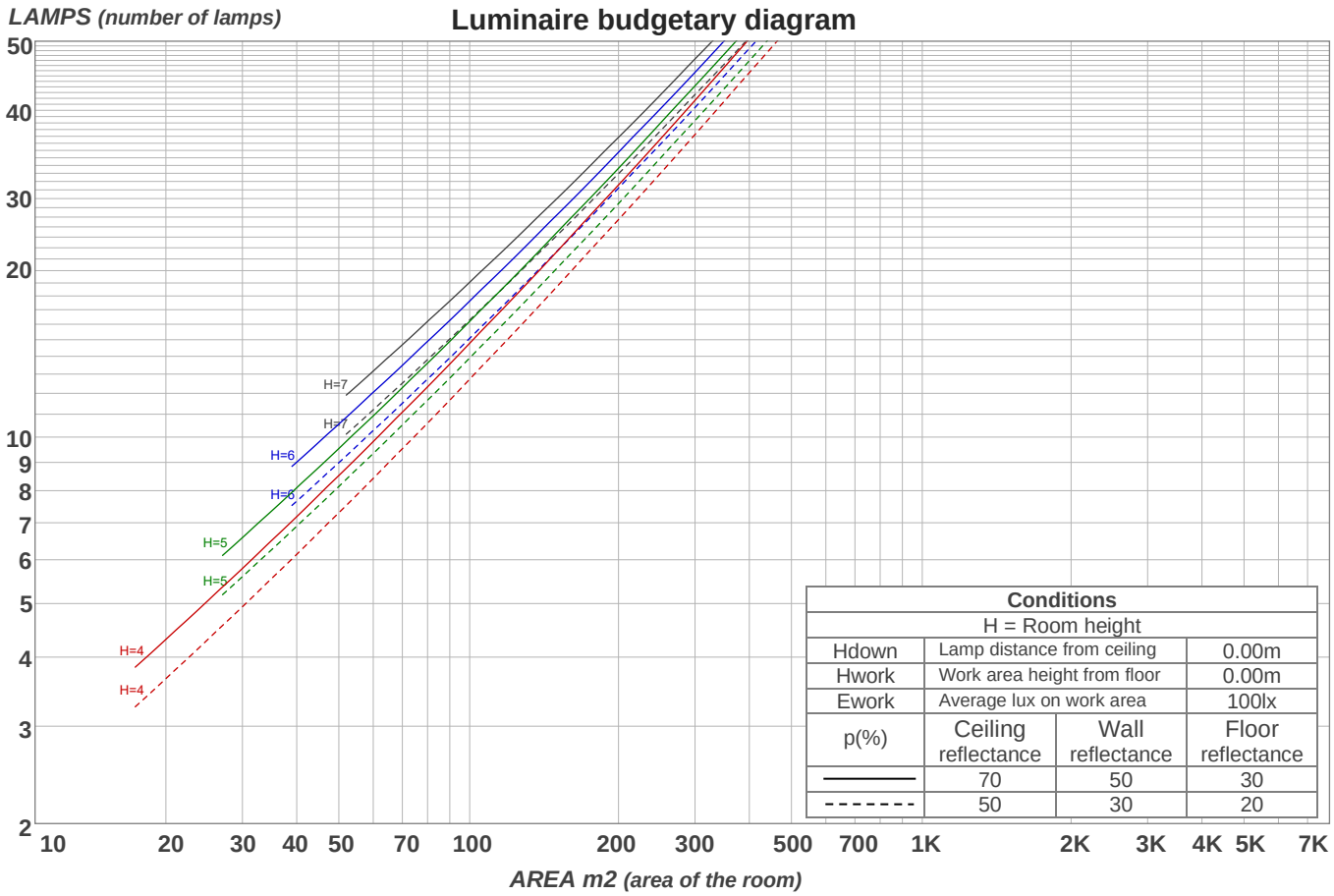
Glare Evaluation According to UGR

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	13,6	14,5	13,8	14,8	15,0	25,8	26,7	26,0	27,0	27,2
	3H	15,2	16,2	15,6	16,5	16,6	25,9	27,0	26,3	27,2	27,4
	4H	18,7	19,7	19,1	19,9	20,2	26,0	27,0	26,4	27,2	27,5
	6H	20,9	21,7	21,2	22,0	22,3	26,1	27,0	26,4	27,2	27,6
	8H	20,9	21,7	21,2	22,0	22,4	26,1	26,9	26,4	27,2	27,6
	12H	20,8	21,6	21,2	22,0	22,4	26,1	26,9	26,4	27,2	27,6
4H	2H	14,1	15,1	14,5	15,3	15,6	25,5	26,4	25,9	26,7	26,9
	3H	16,1	16,9	16,5	17,2	17,7	25,8	26,6	26,2	26,9	27,4
	4H	19,9	20,6	20,3	21,0	21,6	25,8	26,6	26,3	27,0	27,5
	6H	22,2	22,9	22,7	23,2	23,6	25,9	26,6	26,4	27,0	27,3
	8H	22,2	22,9	22,7	23,2	23,6	25,9	26,6	26,4	26,9	27,3
	12H	22,2	22,7	22,7	23,2	23,6	25,9	26,4	26,4	26,9	27,3
8H	4H	20,2	20,9	20,7	21,2	21,6	25,8	26,4	26,3	26,8	27,2
	6H	22,8	23,3	23,3	23,7	24,3	25,9	26,4	26,4	26,9	27,4
	8H	22,9	23,3	23,4	23,9	24,5	26,0	26,4	26,5	26,9	27,5
	12H	22,9	23,3	23,5	23,8	24,4	26,0	26,4	26,6	26,9	27,5
12H	4H	20,2	20,8	20,7	21,2	21,7	25,8	26,3	26,3	26,7	27,2
	6H	22,9	23,3	23,4	23,8	24,5	26,0	26,4	26,5	26,9	27,6
	8H	23,1	23,4	23,7	23,9	24,5	26,1	26,4	26,6	26,9	27,5
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					2,7 / -3,5				
S = 1.5H		0,3 / -0,2					4,9 / -4,7				
S = 2.0H		0,5 / -0,8					6,7 / -5,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 998 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	111	111	111	106	106	106	101	101	101	99
1	111	107	103	100	108	104	101	99	100	98	95	96	94	92	92	91	89	87
2	103	96	91	86	101	95	90	85	91	87	83	88	84	81	85	82	79	77
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	74	71	69
4	90	80	73	68	88	79	72	67	77	71	66	74	69	65	72	68	65	63
5	84	74	67	61	83	73	66	61	71	65	60	69	64	60	67	63	59	57
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	52
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	71	60	52	48	69	59	52	47	58	51	47	56	51	47	55	50	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	43	42
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39

Luminaire budgetary diagram

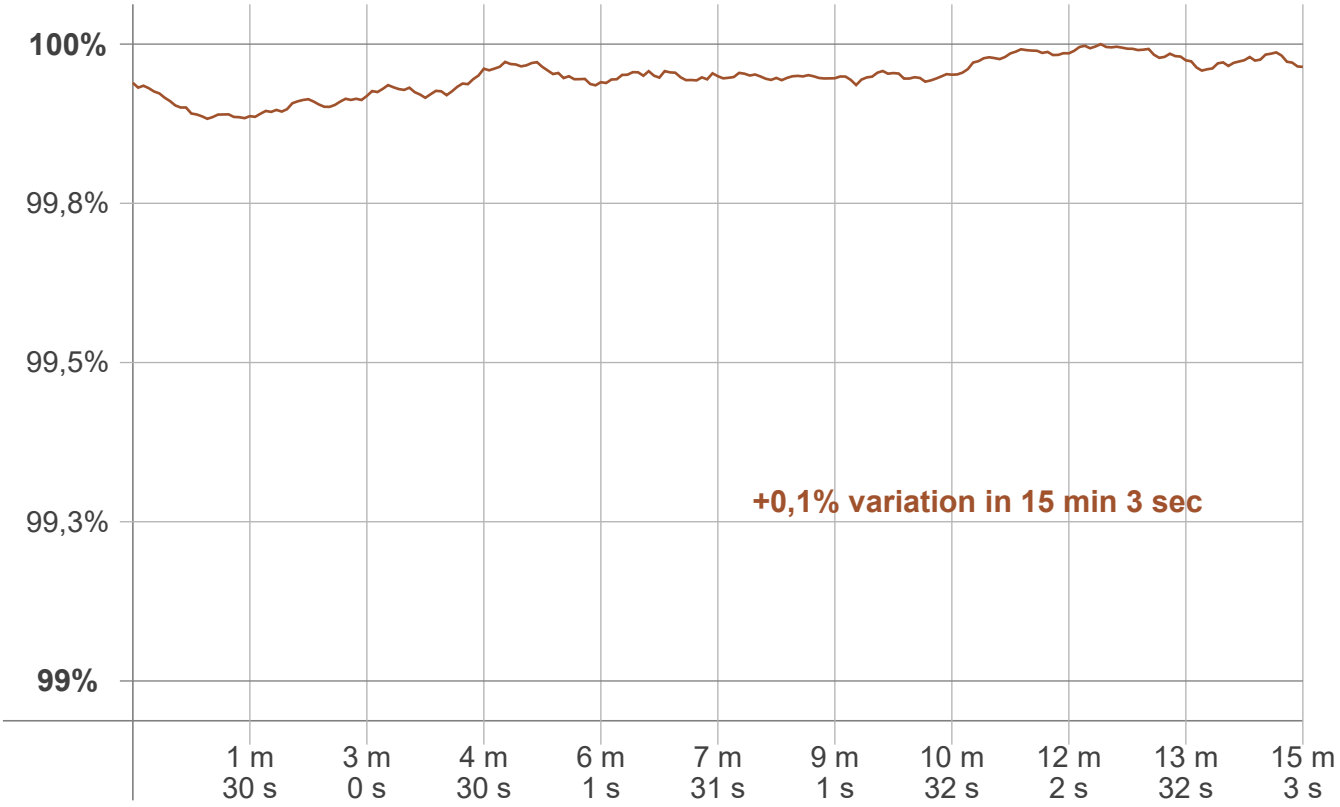


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
101 lm	211 lm	175 lm	175 lm	134 lm	86,2 lm	47,0 lm	41,9 lm	17,1 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
4,02 lm	1,54 lm	1,36 lm	1,23 lm	0,953 lm	0,707 lm	0,521 lm	0,319 lm	0,107 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
6499 K	+1 K	6500 K

Output change

Output start	Output change	Output end
998 lm	+ lm	998 lm