Light efficiency:

108 Lumen/Watt

Light quality:

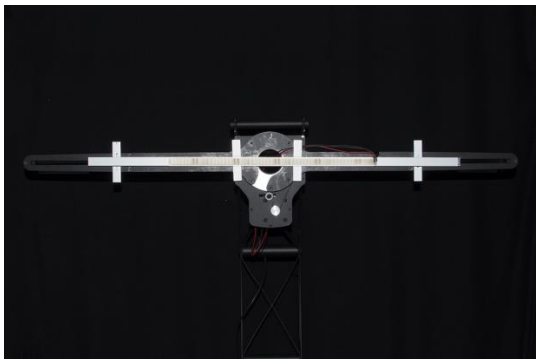
CRI: 93,0

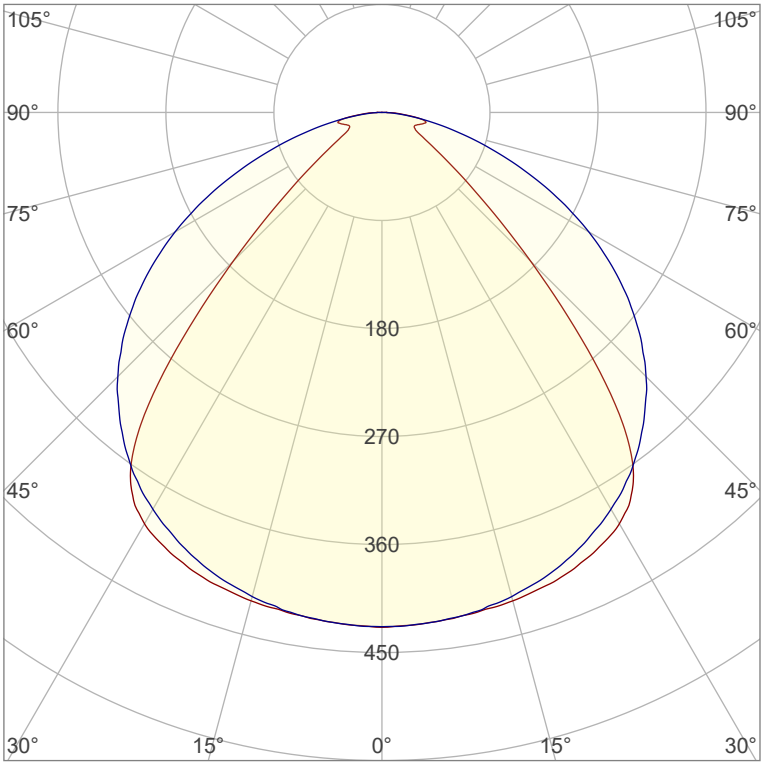
Color temperature:

6500 K

Output: 1033 lm
Peak: 429 cd

Power: 9,6 W
PF: 1,0





Product name:
Pegasus-5_510mm_965_Lens-90°-Frosted

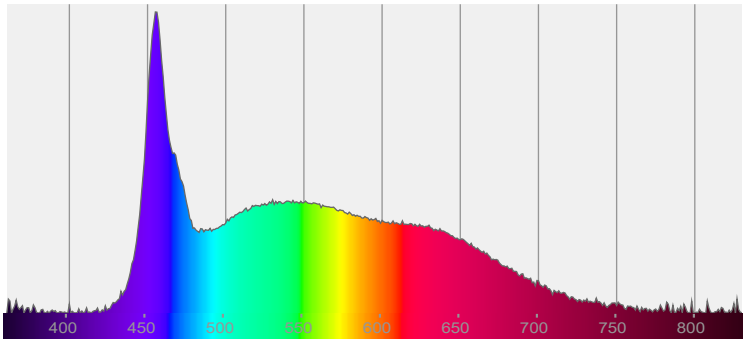
Item number:
NP/L2C/09E/0510/965/L9F

Date and time:
26.05.2025 17:04:14

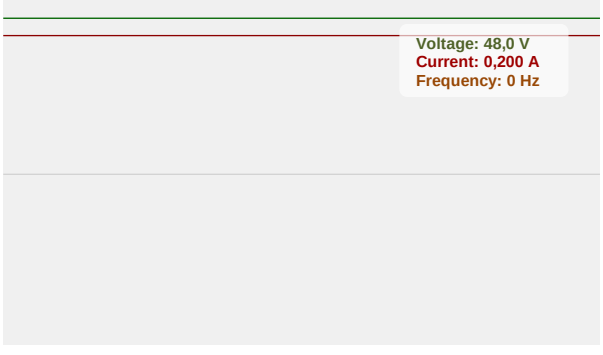
Description:
Tolerances:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Kelvin
CRI +/-0,7
Angular Resolution: 1 Degree Step
Last Calibration 13.10.2023
Tester:
Peter Ulrich
Test Site:
Lichtlabor
Gaustrasse 13
55411 Bingen am Rhein

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

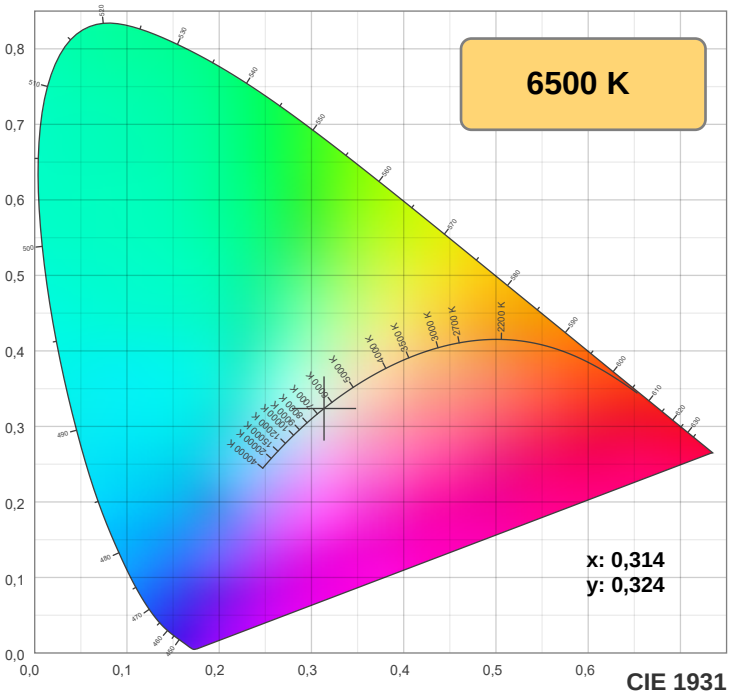
Spectra



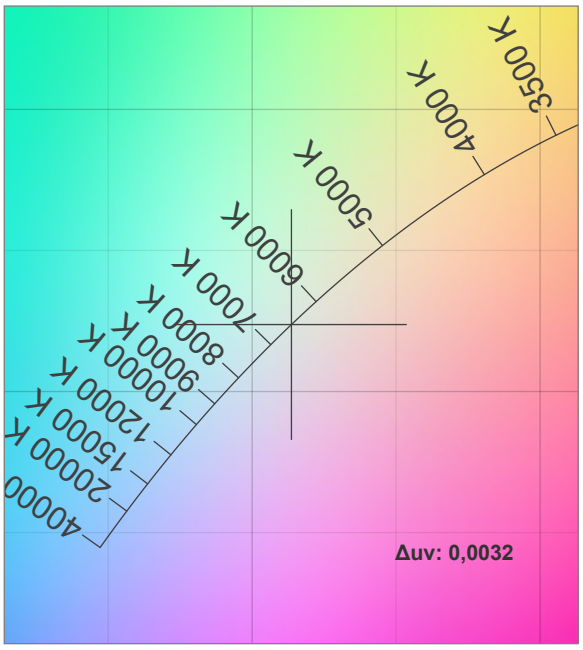
Power



Color details

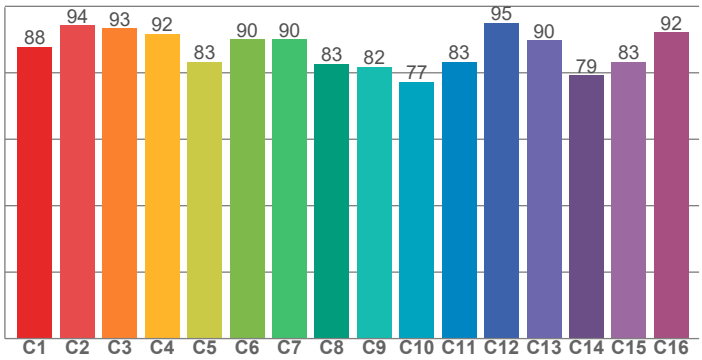


CIE 1931

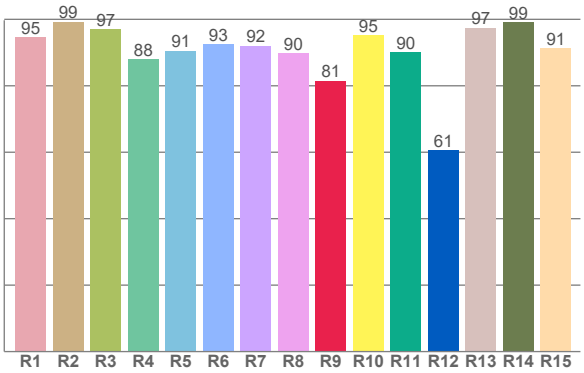


CIE 1931 ZOOM

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
94,6	99,2	97,0	88,1	90,6	92,5	92,0	89,7	81,5	95,2	90,0	60,6	97,5	99,1	91,3

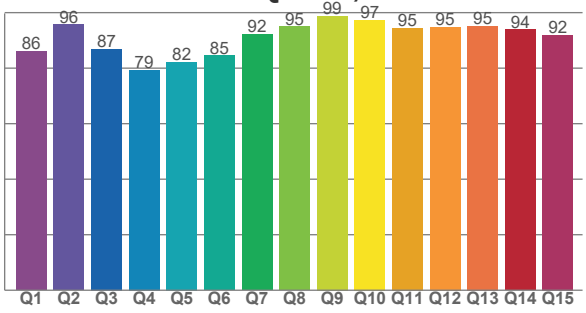
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
87,8	94,3	93,3	91,7	83,2	90,0	90,1	82,6	81,7	77,2	83,4	95,1	89,8	79,3	83,4	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	79,4	82,3	84,5	92,2	95,0	98,8	97,3	94,5	94,8	95,3	93,9	92,0

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	81,5	87,1	95,6	89,5	0,314	0,324	0,200	0,310	0,0032

TM30 details

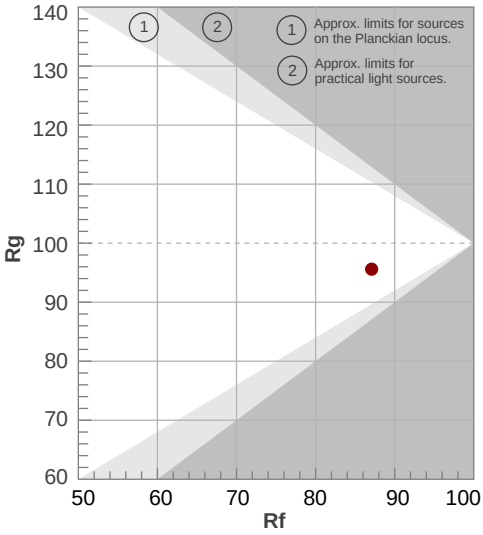
Rf 87,1

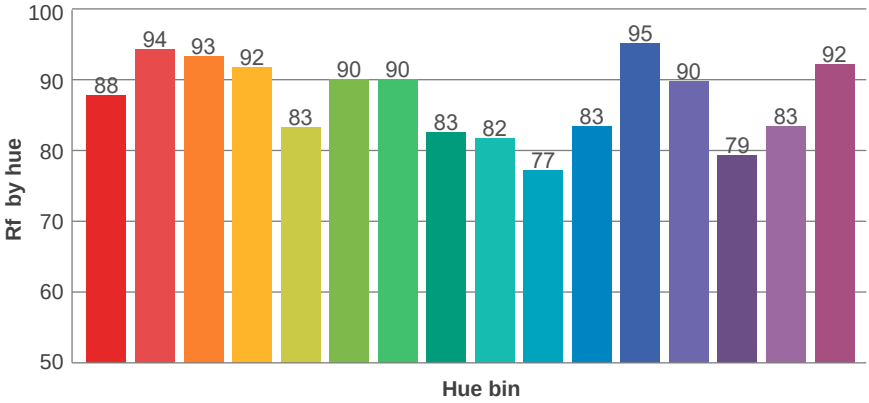
Fidelity index Rf

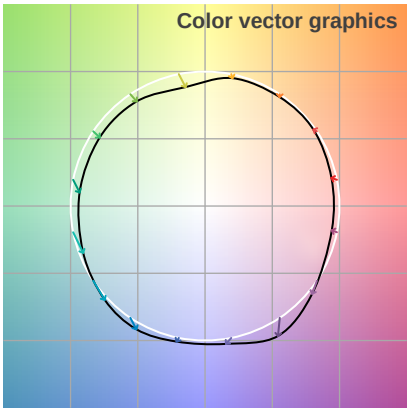
Rg 95,6

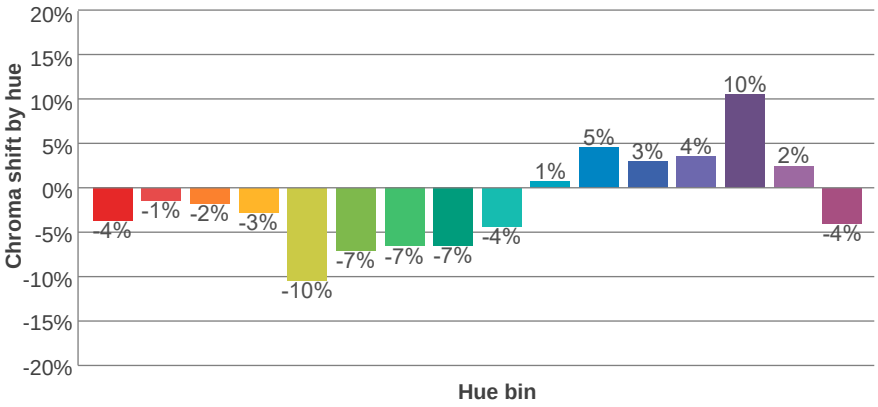
Gammut index Rg

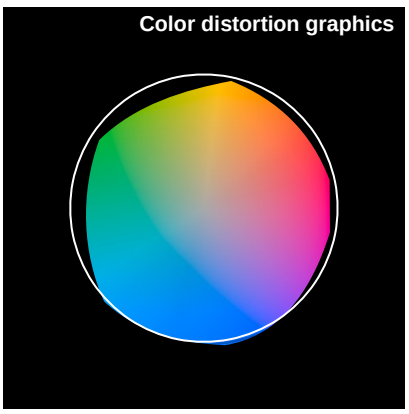
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	88	-4%	2%
2	94	-1%	3%
3	93	-2%	-1%
4	92	-3%	-1%
5	83	-10%	-3%
6	90	-7%	-1%
7	90	-7%	1%
8	83	-7%	8%
9	82	-4%	16%
10	77	1%	16%
11	83	5%	8%
12	95	3%	-1%
13	90	4%	-5%
14	79	10%	-9%
15	83	2%	-10%
16	92	-4%	1%

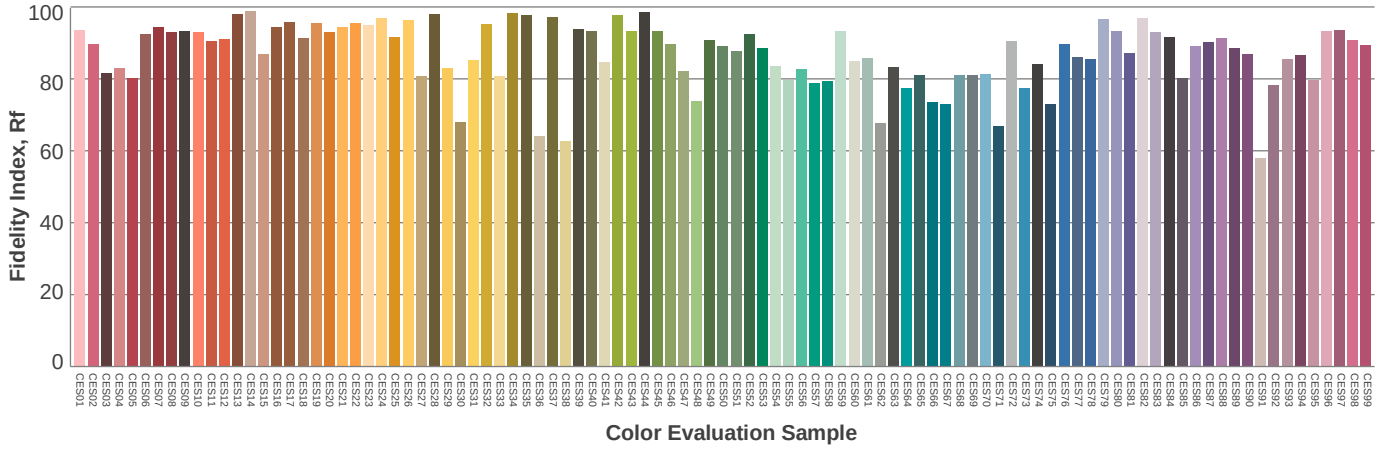




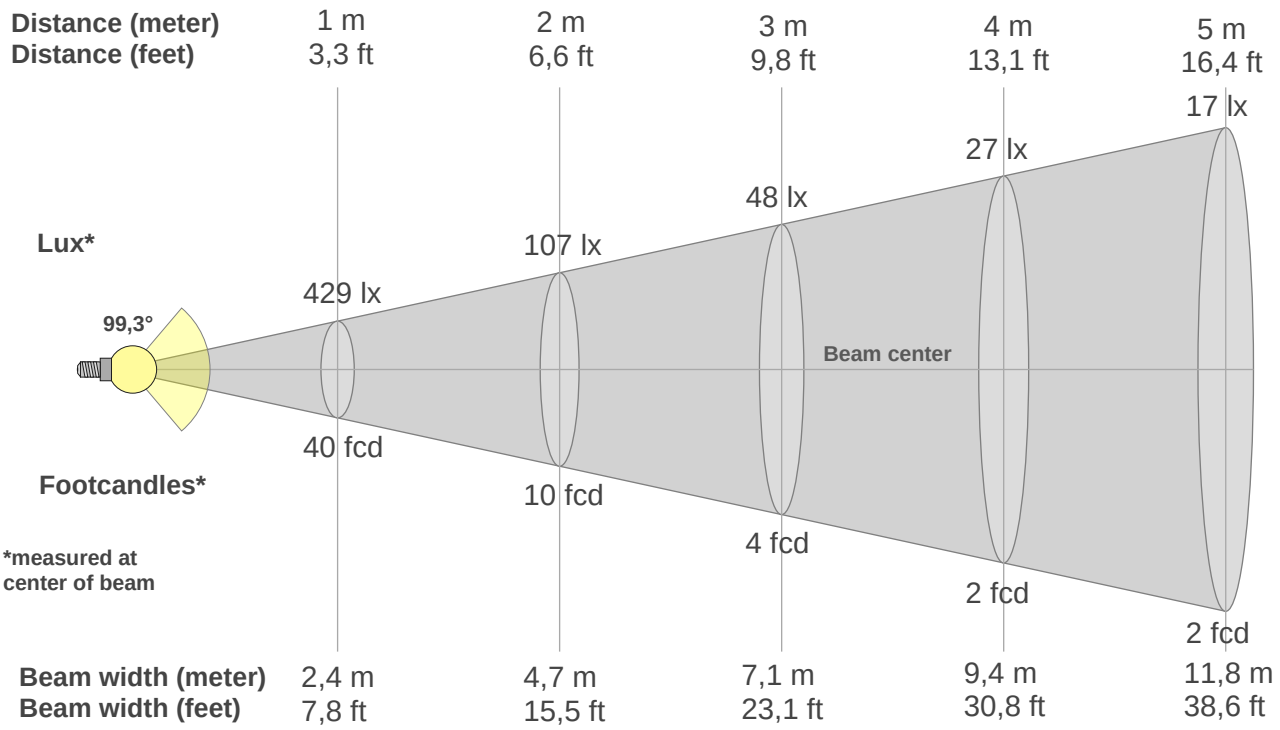








Beam details



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
429lx	107lx	48lx	27lx	17lx	12lx	9lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx
39,8fcd	10fcd	4,4fcd	2,5fcd	1,6fcd	1,1fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	0,2fcd	0,2fcd	0,1fcd	0,1fcd	0,1fcd	0,1fcd

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°
429	427	424	421	417	408	396	365	283	175	99	57	36	30	31	36	34	17	4	0
100%	100%	99%	98%	97%	95%	92%	85%	66%	41%	23%	13%	8%	7%	7%	8%	8%	4%	1%	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°
429	427	424	418	409	397	382	363	339	311	278	241	199	154	109	68	36	14	2	2
100%	100%	99%	97%	95%	93%	89%	85%	79%	73%	65%	56%	46%	36%	25%	16%	8%	3%	0%	0%

Intensities in 180° c-plane

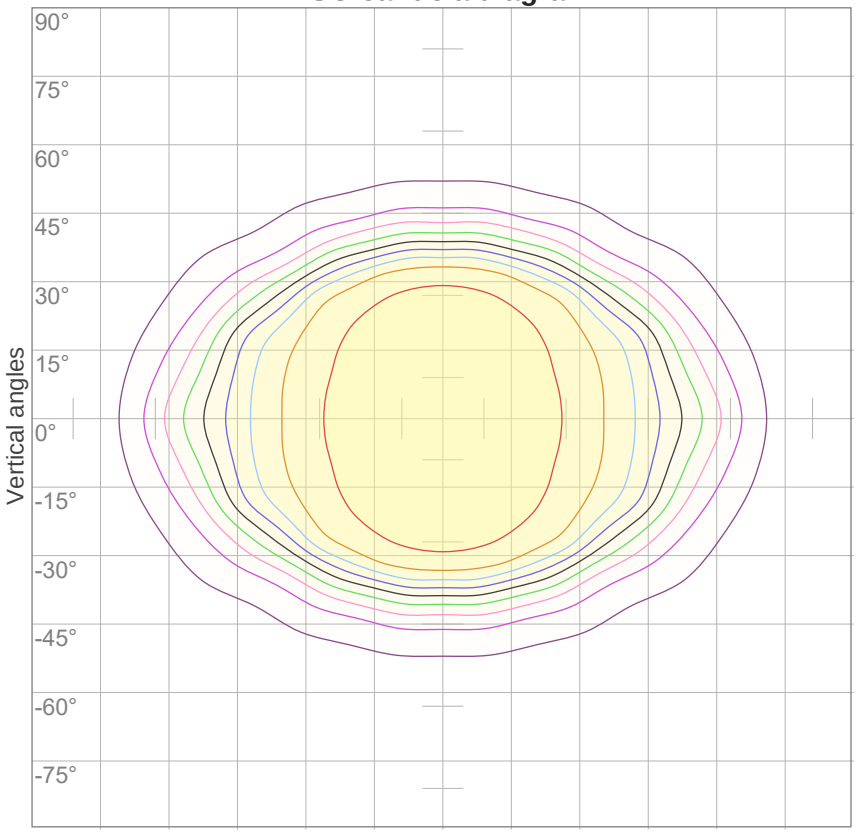
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
429	427	424	421	417	408	396	365	283	175	99	57	36	30	31	36	34	17	4	0
100%	100%	99%	98%	97%	95%	92%	85%	66%	41%	23%	13%	8%	7%	7%	8%	8%	4%	1%	0%

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°
429	427	424	418	409	397	382	363	339	311	278	241	199	154	109	68	36	14	2	2
100%	100%	99%	97%	95%	93%	89%	85%	79%	73%	65%	56%	46%	36%	25%	16%	8%	3%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
99,3°	**133,3°**	**175,7°**	**86,7%**	**66,0%**

ISO candela diagram



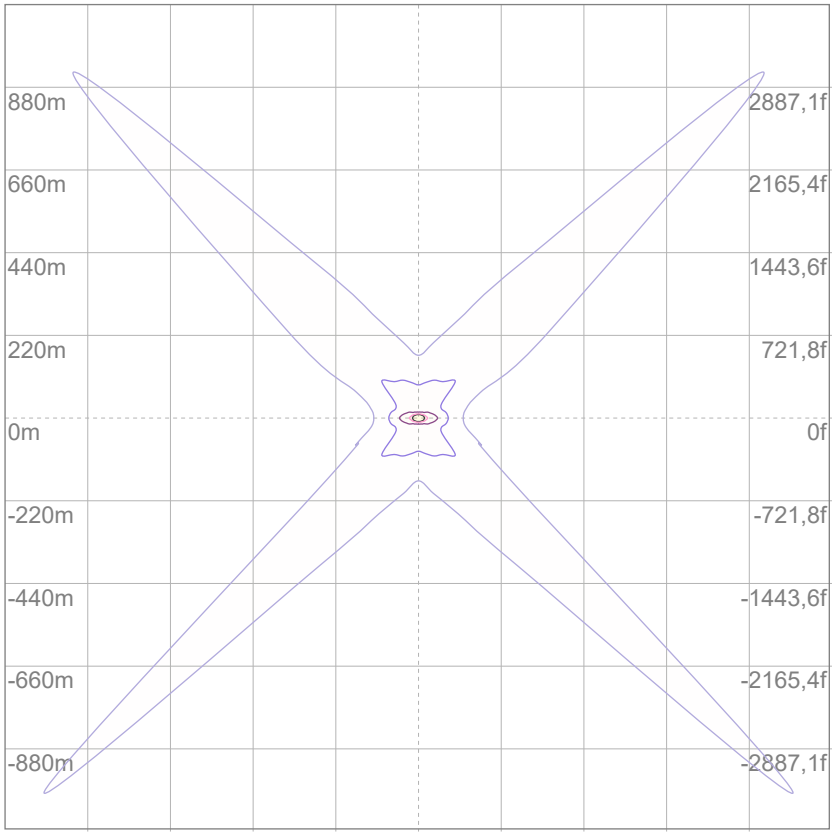
10%	43 cd
20%	86 cd
30%	129 cd
40%	171 cd
50%	214 cd
60%	257 cd
70%	300 cd
80%	343 cd
90%	386 cd

Conditions:

Number of c-planes: 16

Candela at center: 429 cd

ISO lux diagram



Mounting height: 10 meters (33 feet)

3%	0,129 lx
5%	0,214 lx
10%	0,429 lx
30%	1,29 lx
50%	2,14 lx

Conditions:

Number of c-planes: 16

Lux at center: 4,29 lx

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

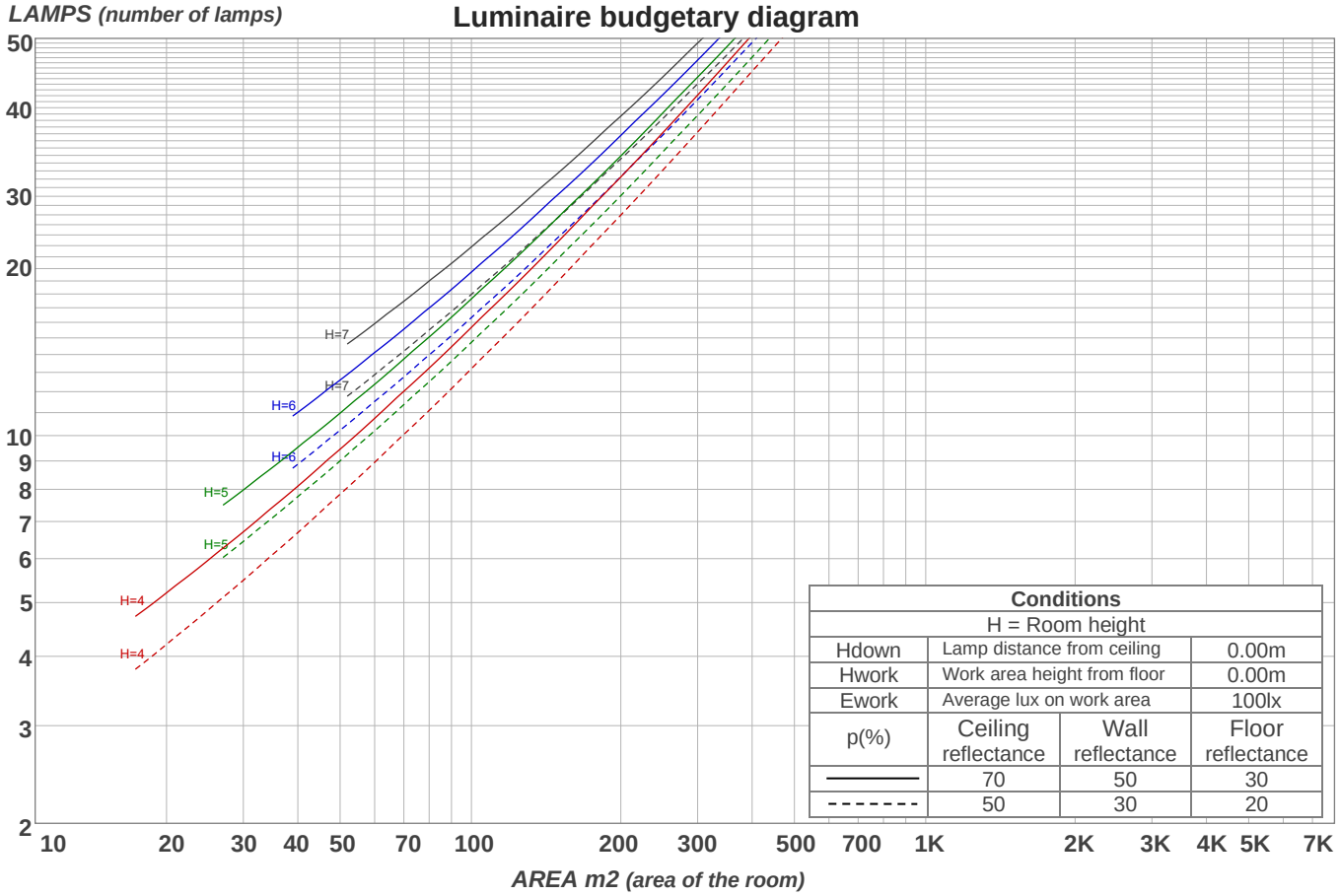
Glare Evaluation According to UGR

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	19,3	20,4	19,5	20,7	20,9	24,5	25,6	24,7	25,9	26,1
	3H	19,4	20,5	19,8	20,8	21,0	25,5	26,7	25,9	26,9	27,1
	4H	19,7	20,8	20,1	21,1	21,3	25,9	27,0	26,3	27,3	27,5
	6H	20,4	21,3	20,7	21,6	21,9	26,3	27,2	26,6	27,5	27,9
	8H	20,6	21,5	20,9	21,8	22,2	26,4	27,3	26,7	27,6	28,0
	12H	20,7	21,6	21,0	21,9	22,3	26,4	27,3	26,7	27,6	28,0
4H	2H	19,6	20,7	20,0	21,0	21,2	24,3	25,4	24,7	25,6	25,9
	3H	20,0	20,9	20,3	21,2	21,6	25,5	26,4	25,9	26,8	27,2
	4H	20,4	21,2	20,8	21,6	22,1	26,0	26,8	26,4	27,2	27,7
	6H	21,1	21,9	21,6	22,3	22,6	26,3	27,1	26,8	27,5	27,8
	8H	21,5	22,2	22,0	22,5	22,9	26,4	27,2	27,0	27,5	27,9
	12H	21,6	22,2	22,1	22,6	23,1	26,5	27,1	27,0	27,5	28,0
8H	4H	20,6	21,3	21,1	21,7	22,0	25,9	26,6	26,4	27,0	27,4
	6H	21,6	22,1	22,1	22,6	23,1	26,3	26,9	26,8	27,3	27,9
	8H	22,1	22,5	22,6	23,0	23,7	26,5	27,0	27,0	27,5	28,1
	12H	22,4	22,7	22,9	23,2	23,9	26,6	27,0	27,2	27,5	28,1
12H	4H	20,6	21,2	21,1	21,6	22,1	25,9	26,5	26,4	26,9	27,4
	6H	21,7	22,2	22,2	22,7	23,3	26,4	26,8	26,9	27,3	28,0
	8H	22,2	22,6	22,8	23,1	23,7	26,5	26,9	27,1	27,4	28,0
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,6 / -0,9					0,2 / -0,3				
S = 1.5H		1,3 / -1,3					0,9 / -1,3				
S = 2.0H		2,2 / -1,5					1,9 / -2,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1033 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	101	101	101	99
1	110	106	102	98	107	103	100	97	99	96	93	95	92	90	91	89	87	85
2	101	94	88	83	98	92	86	82	88	84	80	85	81	78	82	78	76	74
3	93	84	76	71	91	82	75	70	79	73	69	76	71	67	74	69	66	64
4	86	75	67	61	84	74	66	61	71	65	60	69	63	59	67	62	58	56
5	80	68	60	54	78	67	59	53	64	58	53	62	57	52	61	55	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	55	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	45	41	39
8	64	51	43	38	63	51	43	38	49	42	38	48	42	37	47	41	37	35
9	60	47	40	34	59	47	39	34	46	39	34	44	38	34	43	38	34	32
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	40	35	31	29

Luminaire budgetary diagram

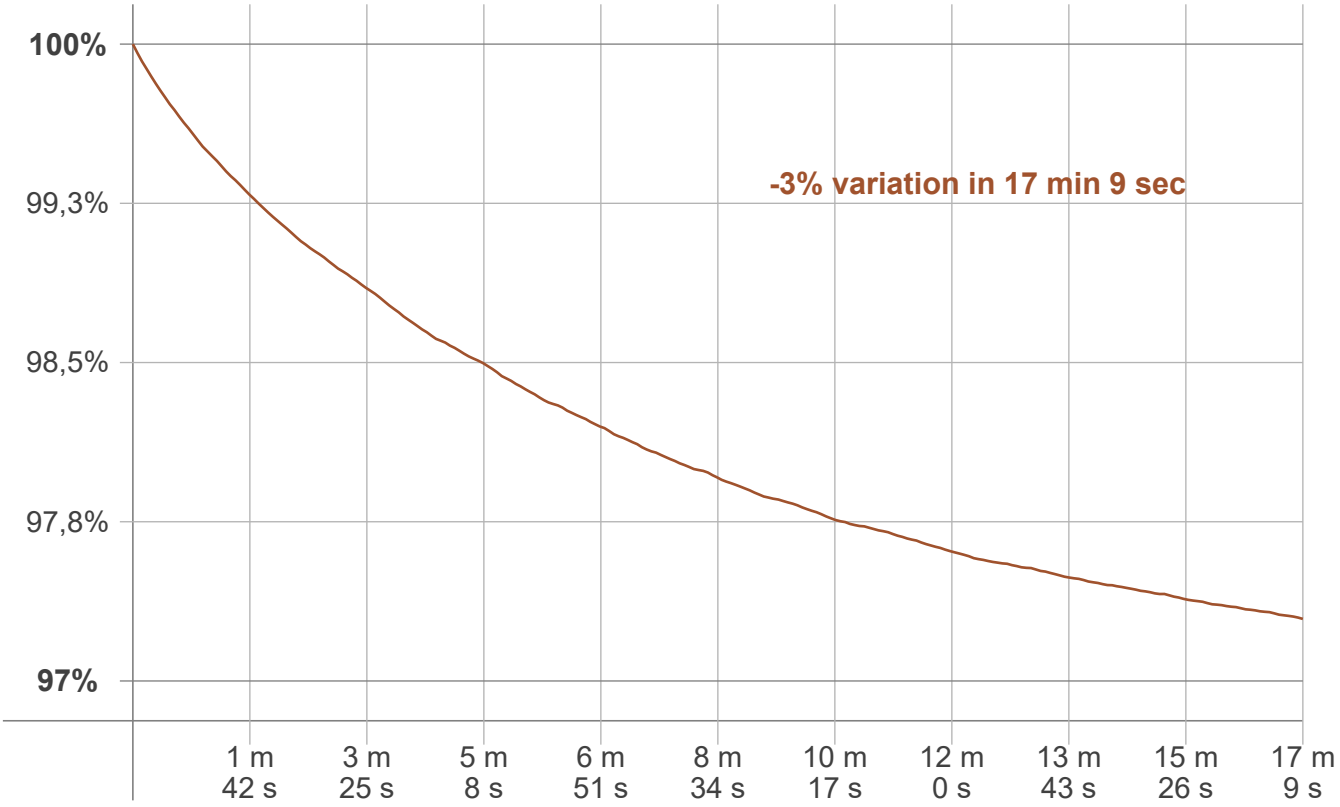


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
40,6 lm	118 lm	186 lm	229 lm	200 lm	122 lm	65,7 lm	39,5 lm	19,4 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5,23 lm	1,69 lm	1,45 lm	1,31 lm	1,03 lm	0,772 lm	0,569 lm	0,348 lm	0,117 lm

Warmup curve



Warmup result

Warmup time:	**Lamp stabilized in 17 min 9 sec**
Warmup variation	**-3,0%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
6481 K	+19 K	6500 K

Output change

Output start	Output change	Output end
1063 lm	-30 lm	1033 lm