



Light efficiency:

77 Lumen/Watt

Light quality:

CRI: 92,9

Color temperature:

2730 K

Output: 736 lm

Peak: 1922 cd

Power: 9,6 W

PF: 1,0



Product name:

Pegasus-5_0510_927_Inlay-Lens-Wallwasher

Item number:

FL/L2C/09E/0510/927/ILWW

Date and time:

25.08.2025 13:10:18

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:

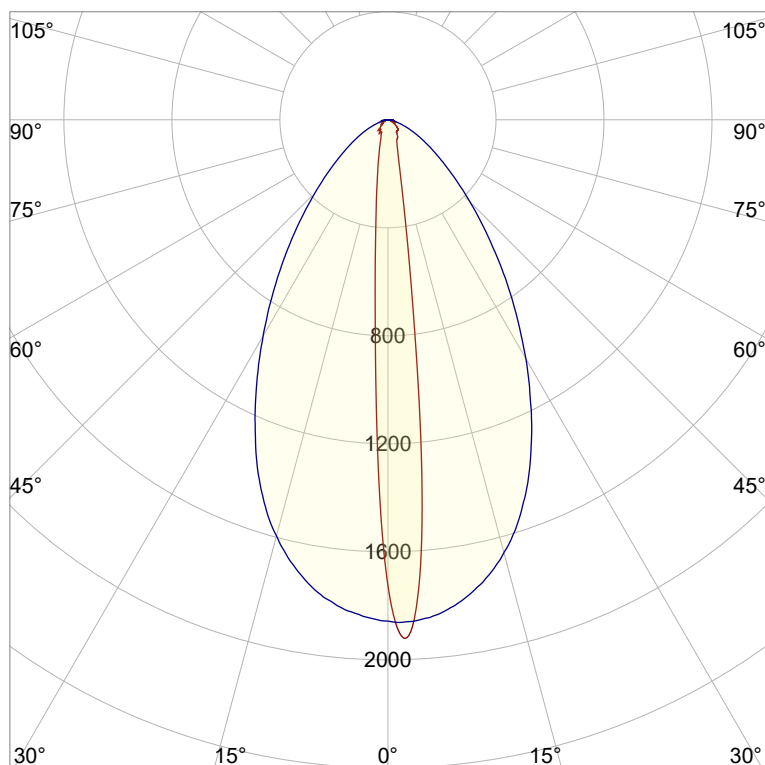
Peter Ulrich

Test Site:

Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein

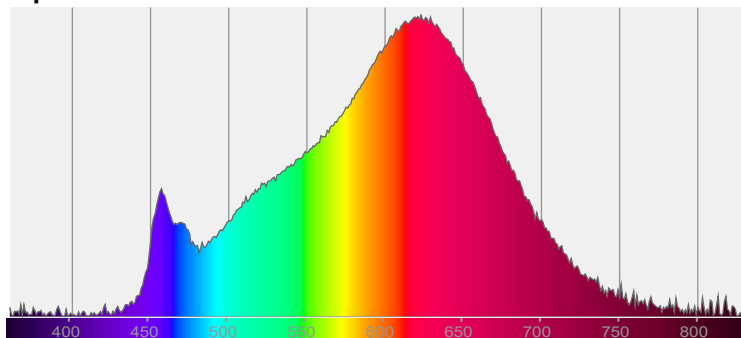


CIE 1931

x: 0,458

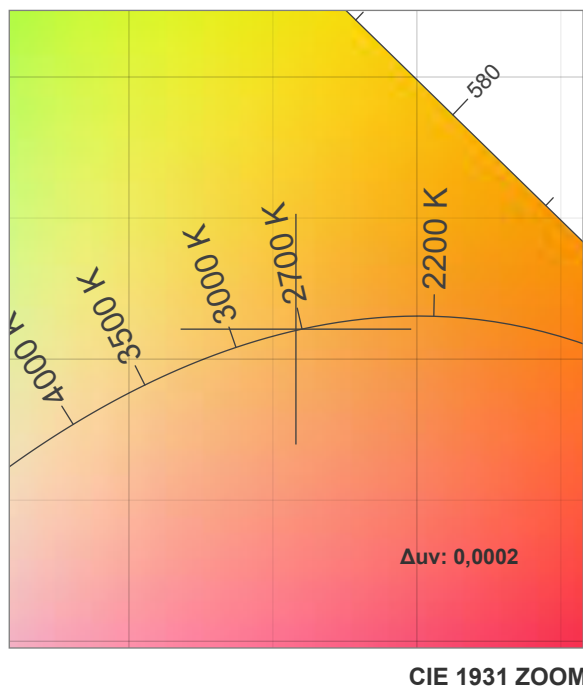
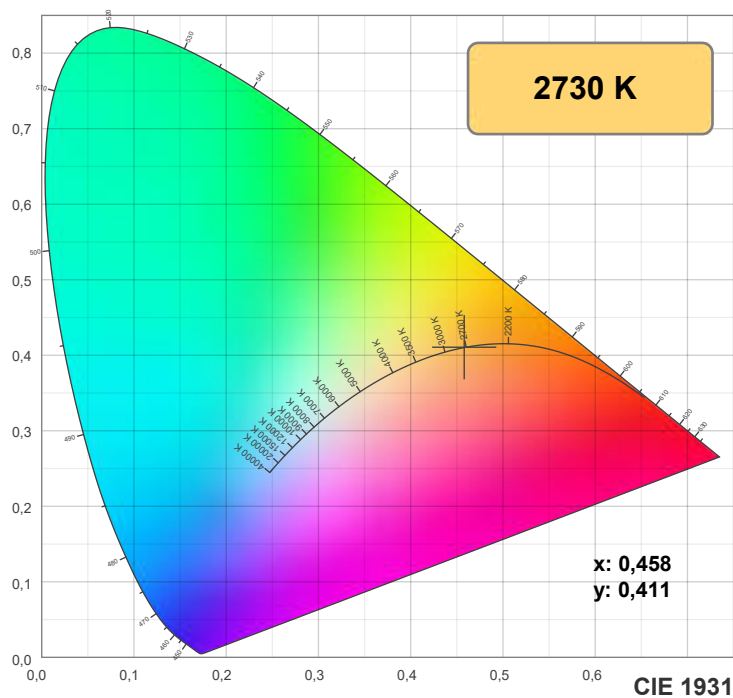
y: 0,411

Spectra

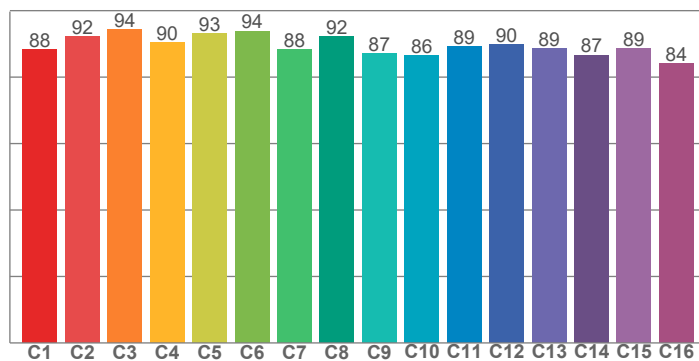


Power

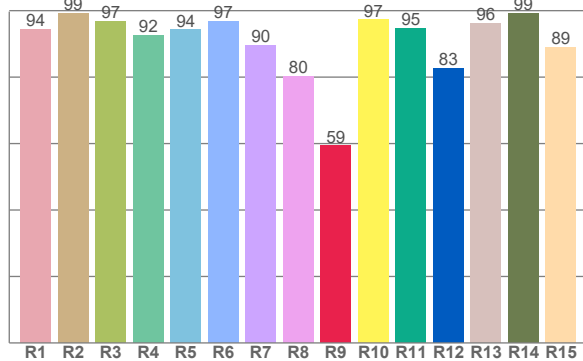
Voltage: 48,0 V
Current: 0,200 A
Frequency: 0 Hz



TM30: 89,6



CRI: 92,9 (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
94,4	99,2	96,8	92,5	94,2	96,7	89,5	80,2	59,3	97,2	94,7	82,6	96,1	99,1	89,0

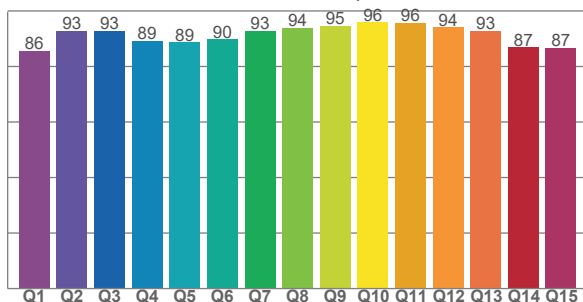
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,2	92,2	94,3	90,4	93,1	93,9	88,4	92,2	87,0	86,4	89,2	89,8	88,6	86,7	88,6	84,1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,5	92,9	92,8	89,2	88,7	89,7	92,8	93,8	94,7	95,8	95,6	94,1	92,7	86,8	86,8

CQS: 90,7



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2730 K	92,9	59,3	89,6	95,6	90,7	0,458	0,411	0,261	0,351	0,0002



TM30 details



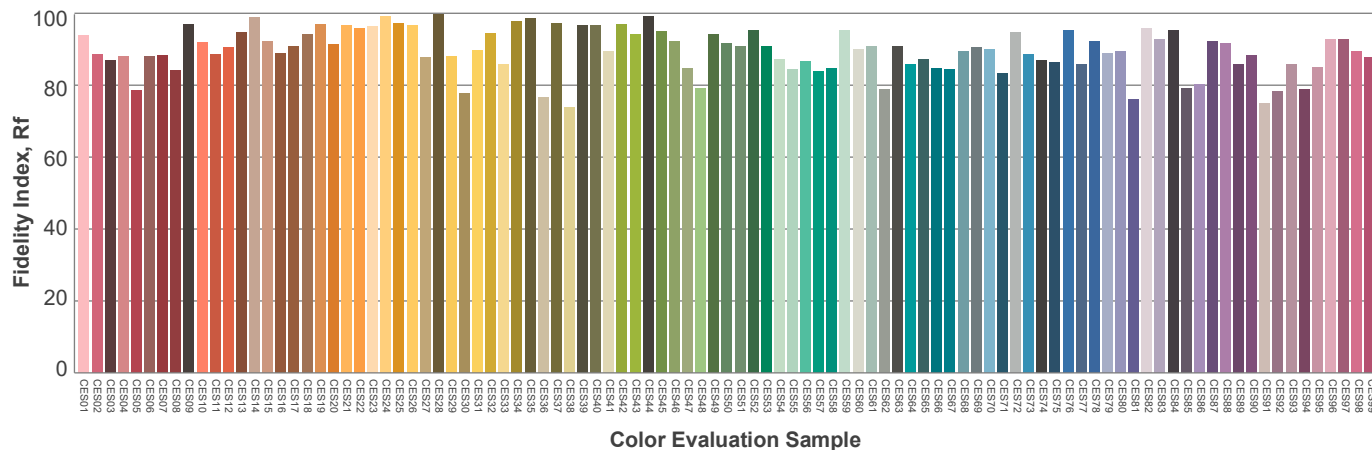
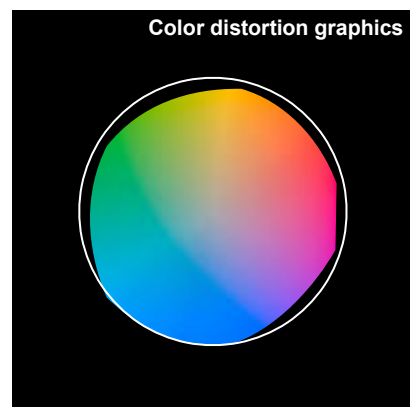
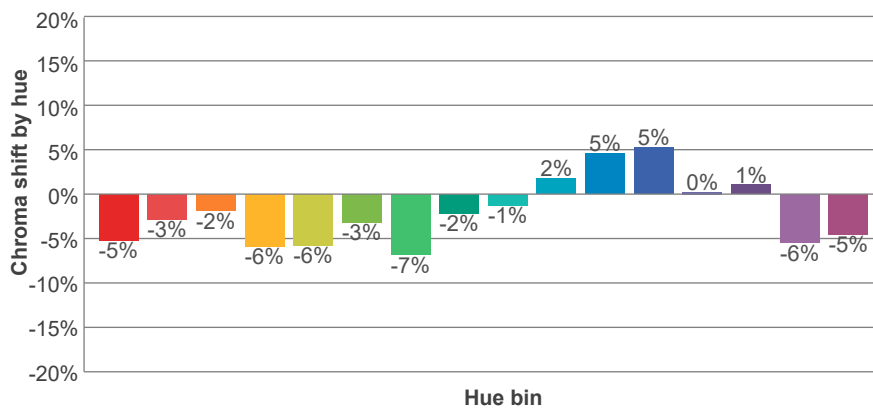
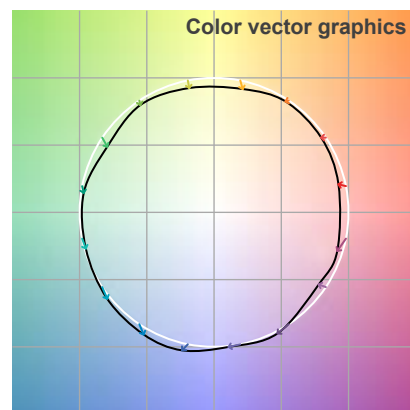
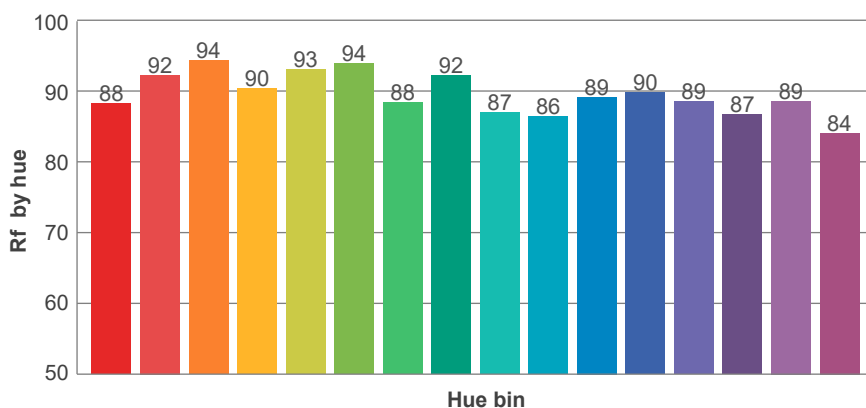
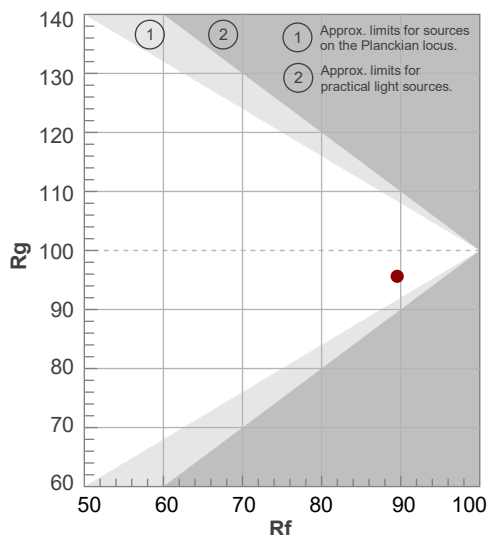
Rf 89,6

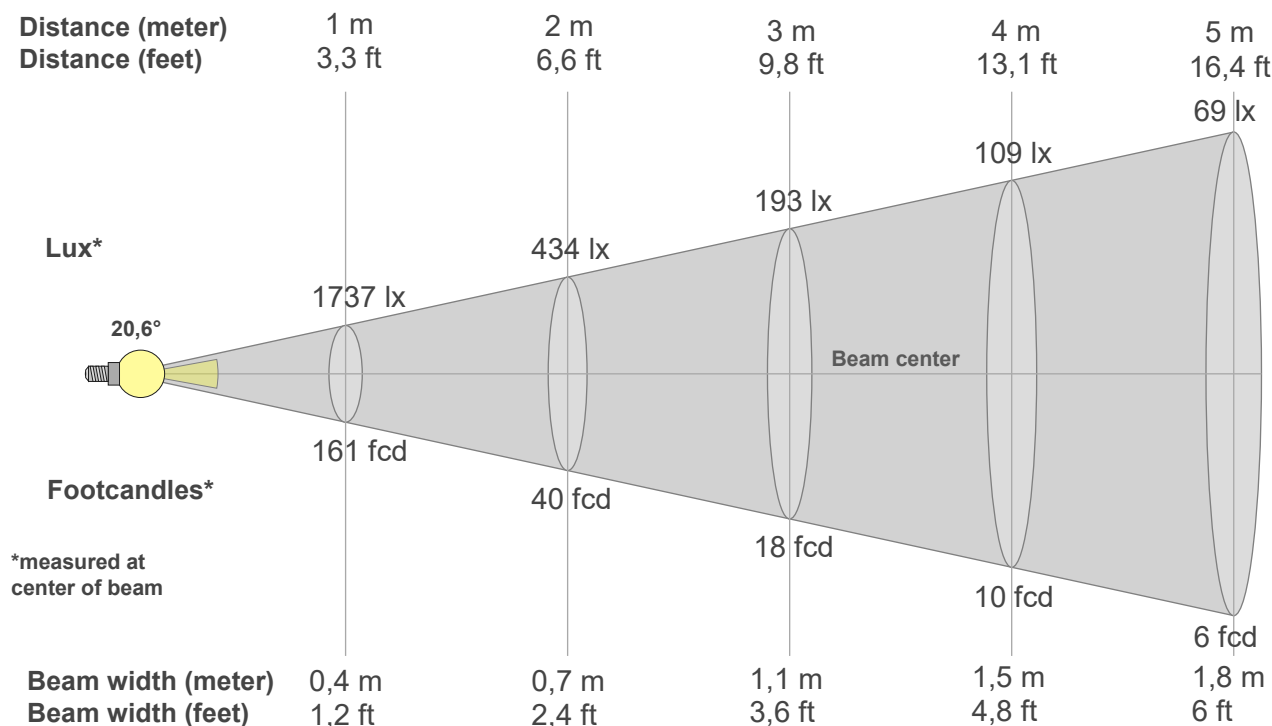
Fidelity index Rf

Rg 95,6

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	88	-5%	2%
2	92	-3%	2%
3	94	-2%	2%
4	90	-6%	-3%
5	93	-6%	0%
6	94	-3%	1%
7	88	-7%	4%
8	92	-2%	5%
9	87	-1%	8%
10	86	2%	9%
11	89	5%	7%
12	90	5%	-3%
13	89	0%	-9%
14	87	1%	-11%
15	89	-6%	-1%
16	84	-5%	-10%





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
1737lx	434lx	193lx	109lx	69lx	48lx	35lx	27lx	21lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
161,4fcd	40,3fcd	17,9fcd	10,1fcd	6,5fcd	4,5fcd	3,3fcd	2,5fcd	2fcd	1,6fcd	1,3fcd	1,1fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd

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°
1737	1918	1693	1150	621	361	239	175	138	115	99	88	81	78	76	72	64	57	55	55
100%	110%	97%	66%	36%	21%	14%	10%	8%	7%	6%	5%	5%	4%	4%	4%	4%	3%	3%	3%

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°
1737	1846	1830	1808	1777	1736	1685	1628	1563	1486	1401	1307	1210	1112	1018	925	838	752	672	598
100%	106%	105%	104%	102%	100%	97%	94%	90%	86%	81%	75%	70%	64%	59%	53%	48%	43%	39%	34%

Intensities in 180° c-plane

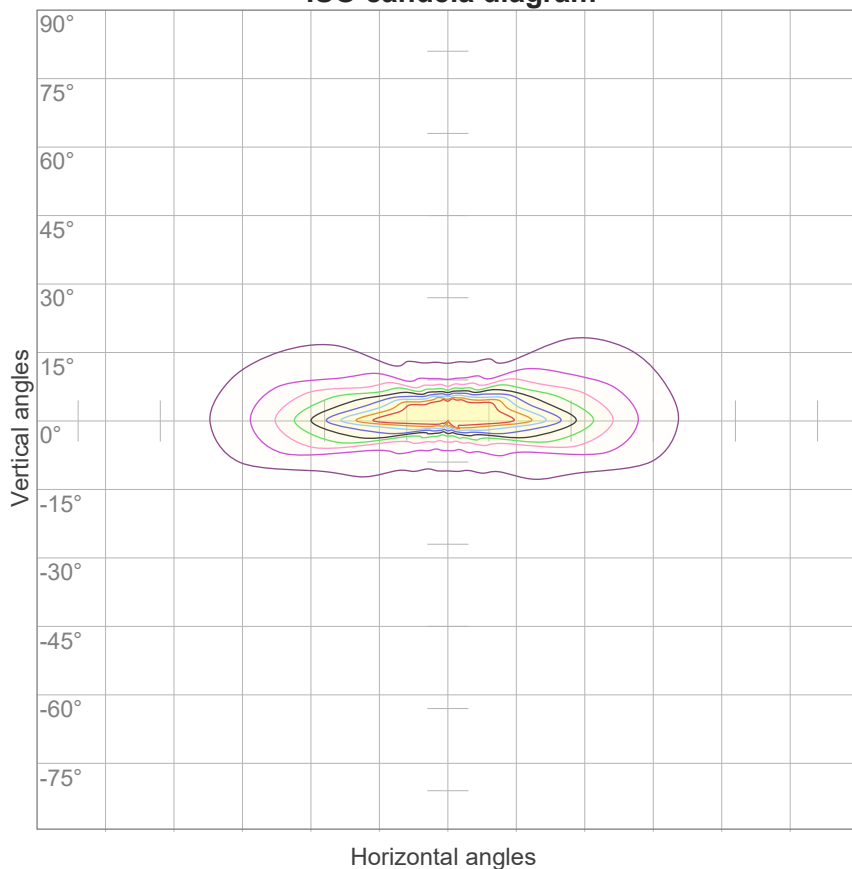
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1737	1160	679	437	310	228	177	139	114	94	78	68	62	54	50	52	61	53	46	45
100%	67%	39%	25%	18%	13%	10%	8%	7%	5%	5%	4%	4%	3%	3%	3%	3%	3%	3%	3%

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°
1737	1861	1853	1838	1813	1779	1738	1689	1631	1562	1485	1399	1306	1212	1116	1022	926	837	752	670
100%	107%	107%	106%	104%	102%	100%	97%	94%	90%	85%	81%	75%	70%	64%	59%	53%	48%	43%	39%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20,6°	50,9°	108,5°	89,6%	75,5%

ISO candela diagram



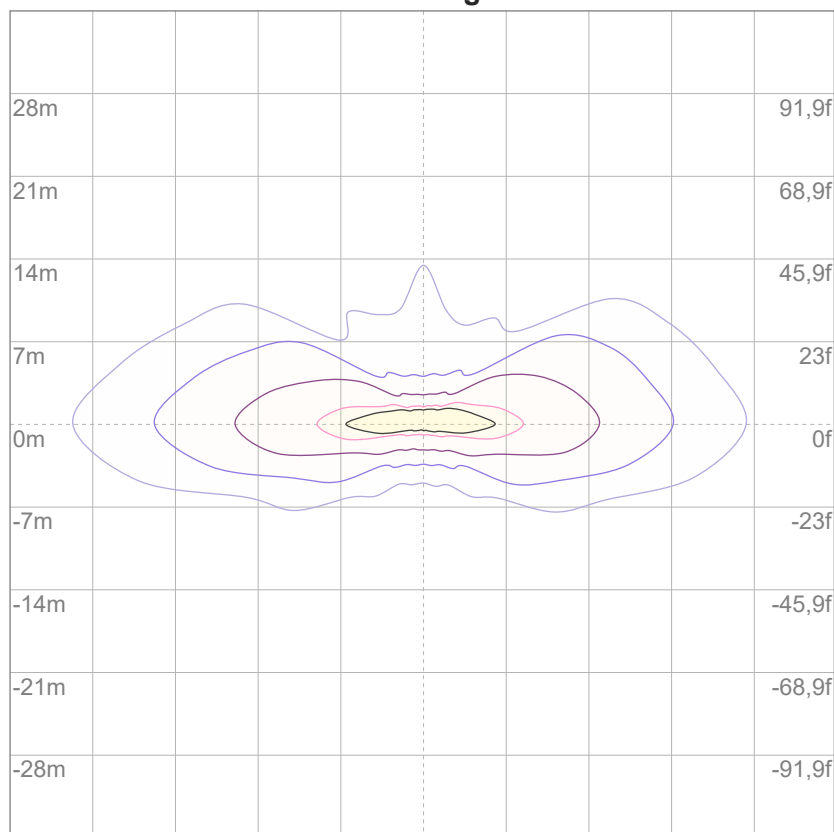
10%	174 cd
20%	347 cd
30%	521 cd
40%	695 cd
50%	869 cd
60%	1042 cd
70%	1216 cd
80%	1390 cd
90%	1564 cd

Conditions:

Number of c-planes: 16

Candela at center: 1737 cd

ISO lux diagram



3%	0,521 lx
5%	0,869 lx
10%	1,74 lx
30%	5,21 lx
50%	8,69 lx

Conditions:

Number of c-planes: 16

Lux at center: 17,4 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				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
Standard table	n/a					n/a				
Correction summand	n/a					n/a				
Corrected glare indices referring to 736 lm total luminous flux										

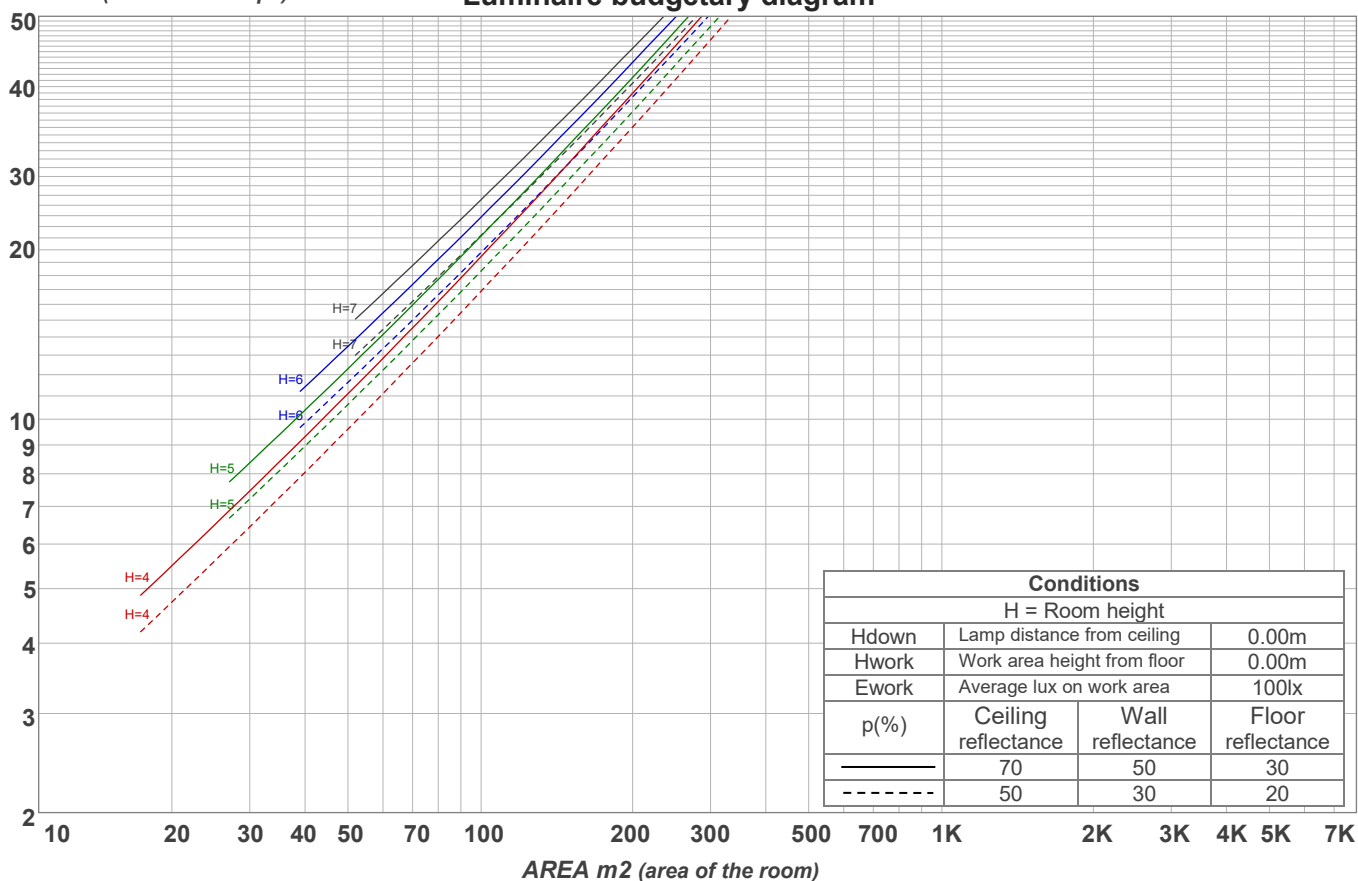
UGR data could not be calculated due to missing/wrong symmetry. Go to Edit -> Photometric -> Corrections and select Correct asymmetry (UGR not defined for asymmetrical distributions)..

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	111	107	104	101	109	105	102	99	101	98	96	97	95	93	94	92	91	89
2	104	98	92	88	101	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72
4	91	82	75	70	89	81	75	70	79	73	69	76	72	68	74	70	67	65
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55
7	77	66	59	54	75	65	59	54	64	58	54	63	57	54	62	57	53	52
8	73	62	55	51	72	62	55	51	60	55	50	59	54	50	58	53	50	48
9	69	59	52	48	68	58	52	47	57	51	47	56	51	47	55	50	47	45
10	66	56	49	45	65	55	49	45	54	49	45	53	48	44	53	48	44	43

LAMPS (number of lamps)

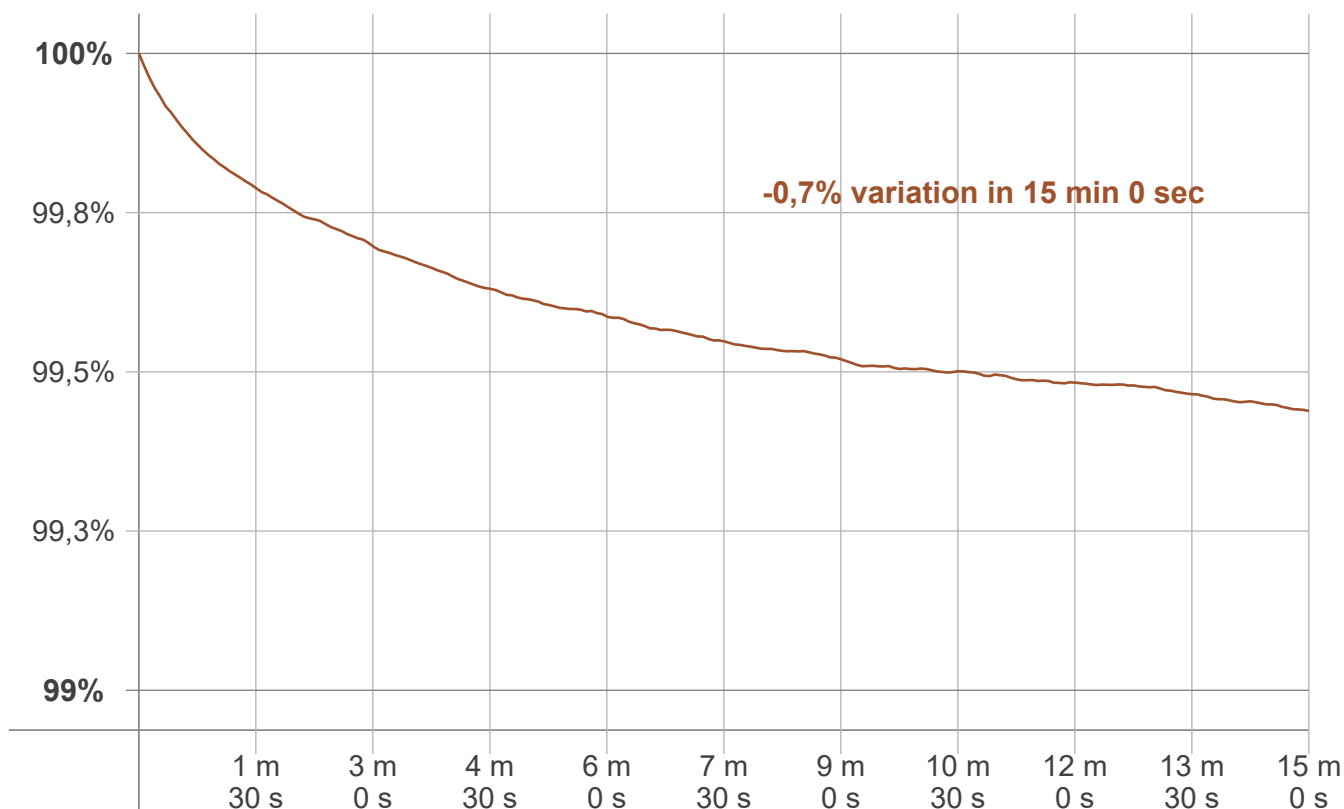
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
108 lm	148 lm	135 lm	116 lm	90,3 lm	61,6 lm	37,1 lm	23,0 lm	16,7 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,062 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm	0,000 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 15 min 0 sec
Warmup variation	-0,7%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2730 K	0 K	2730 K

Output change

Output start	Output change	Output end
740 lm	-5 lm	736 lm