



Light efficiency:

84 Lumen/Watt

Light quality:

CRI: 92,9

Color temperature:

2729 K

Output: 802 lm

Peak: 1516 cd

Power: 9,6 W

PF: 1,0



Product name:

Pegasus-5_0510_927_Inlay-Lens-30-Grad

Item number:

FL/L2C/09E/0510/927/IL3F

Date and time:

25.08.2025 11:08:39

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:

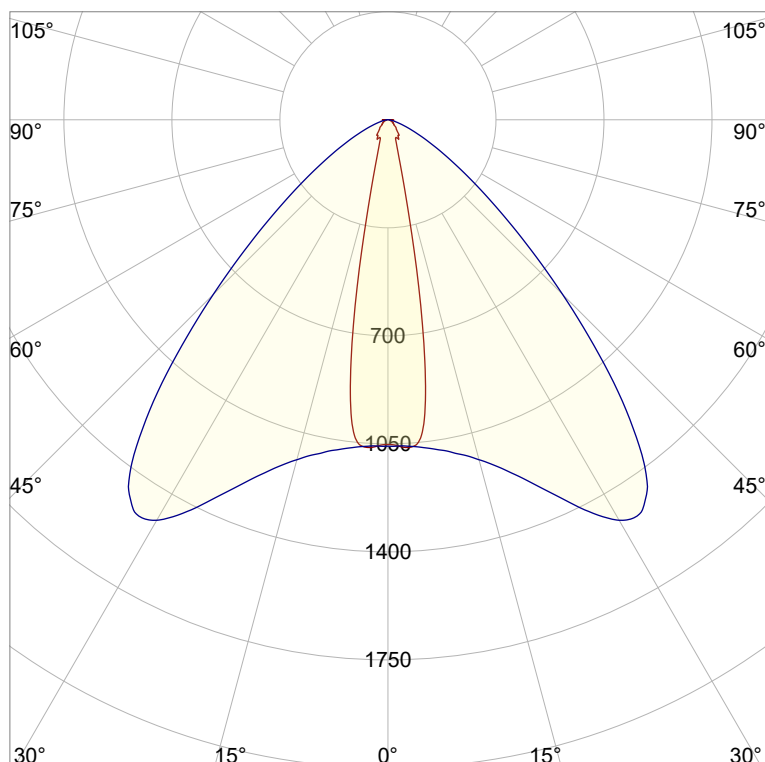
Peter Ulrich

Test Site:

Lichtlabor

Gaustrasse 13

55411 Bingen am Rhein

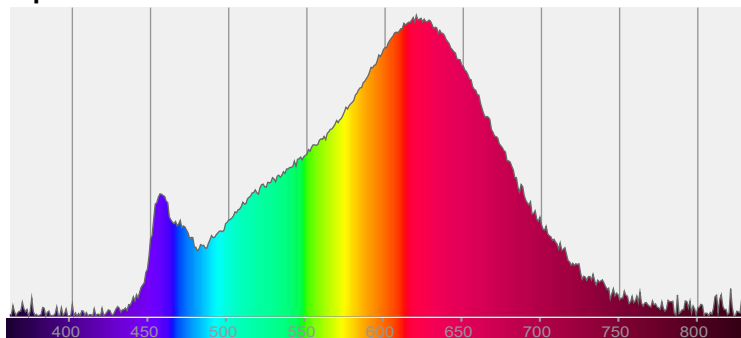


CIE 1931

x: 0,458

y: 0,411

Spectra

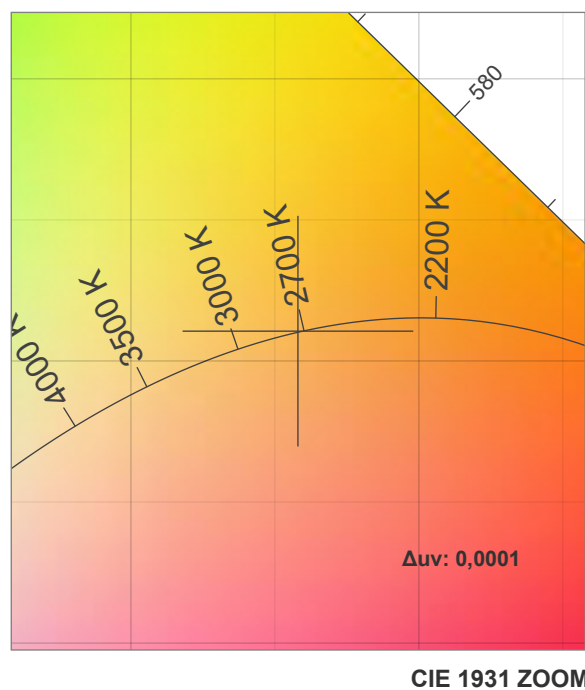
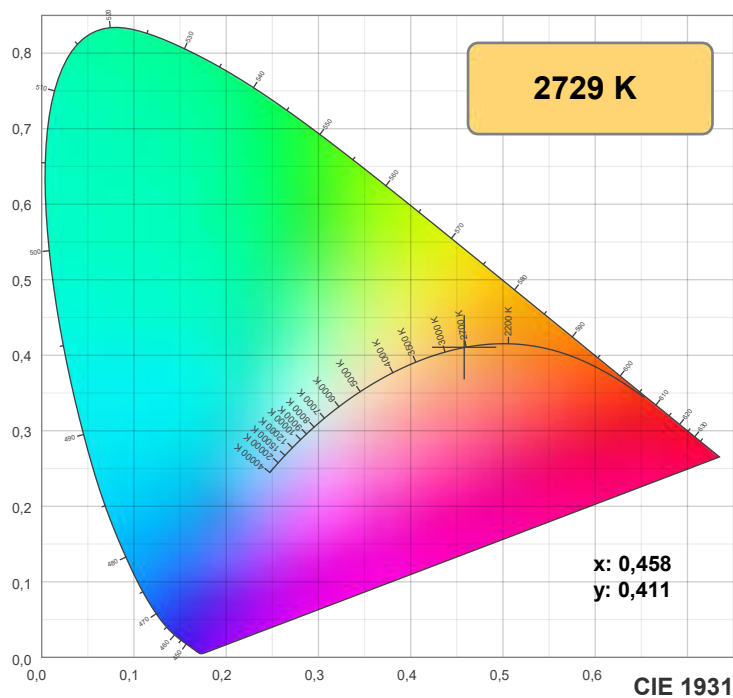


Power

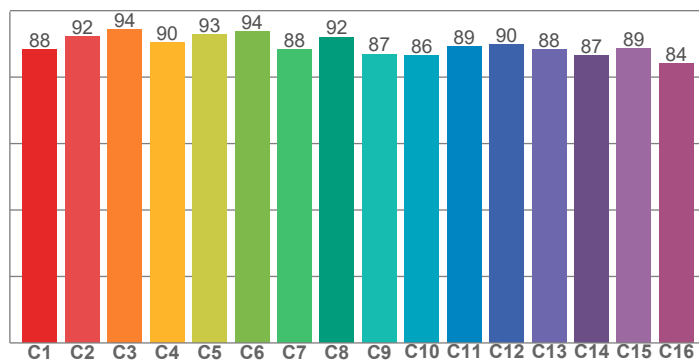
Voltage: 48,0 V

Current: 0,200 A

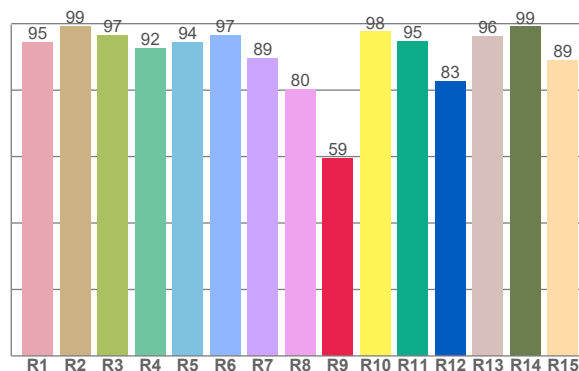
Frequency: 0 Hz



TM30: 89,5



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
94,5	99,3	96,6	92,5	94,3	96,6	89,4	80,2	59,4	97,5	94,7	82,7	96,2	99,0	89,1

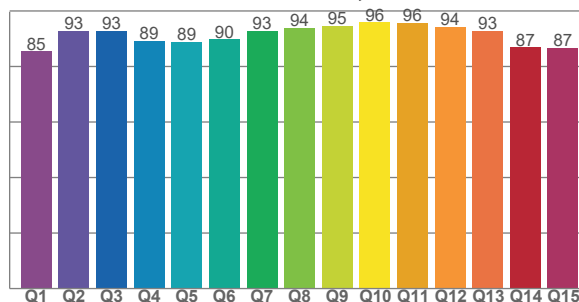
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
88,2	92,3	94,4	90,3	93,0	93,8	88,3	92,1	87,0	86,5	89,3	89,7	88,4	86,6	88,5	84,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
85,5	92,8	92,9	89,3	88,8	89,7	92,8	93,8	94,6	95,8	95,7	94,1	92,7	86,9	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
2729 K	92,9	59,4	89,5	95,6	90,7	0,458	0,411	0,261	0,351	0,0001



TM30 details



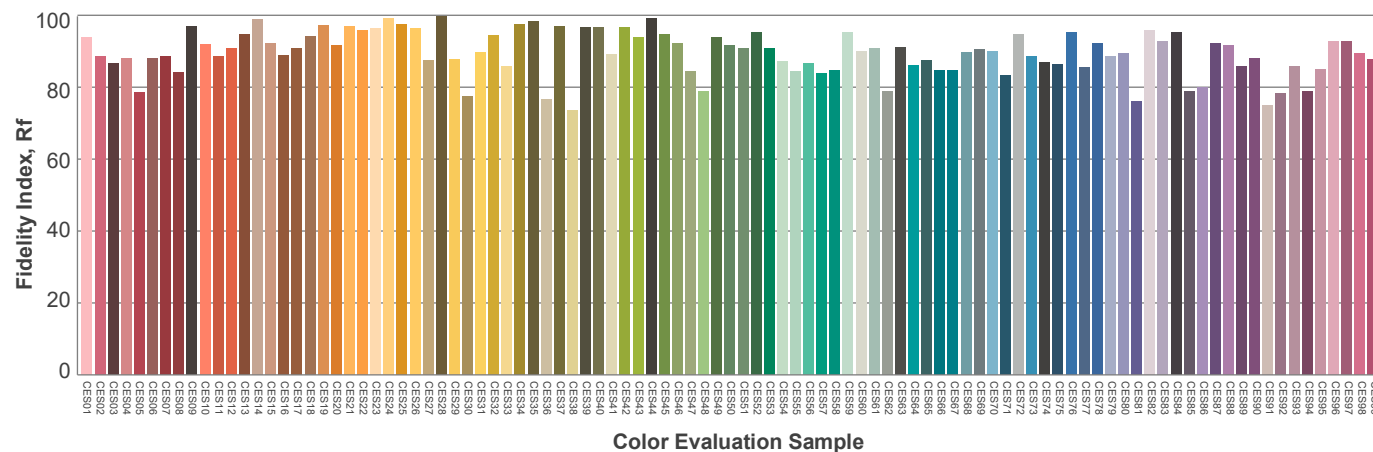
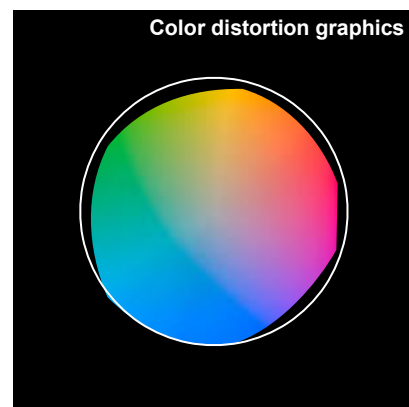
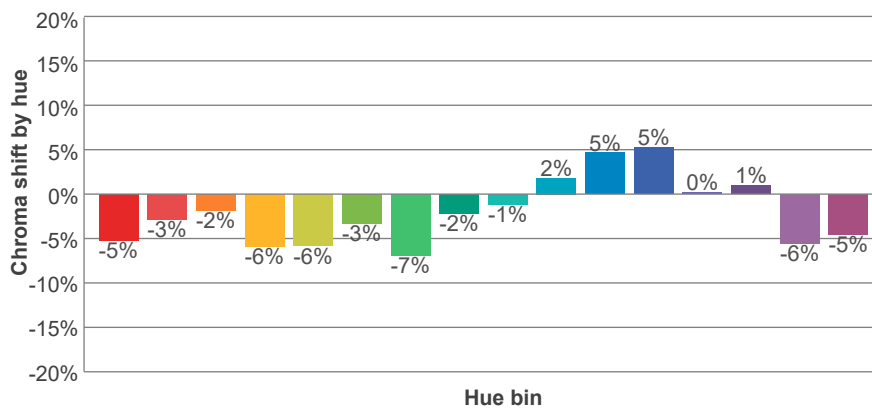
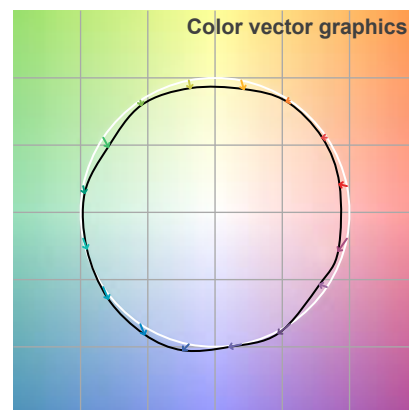
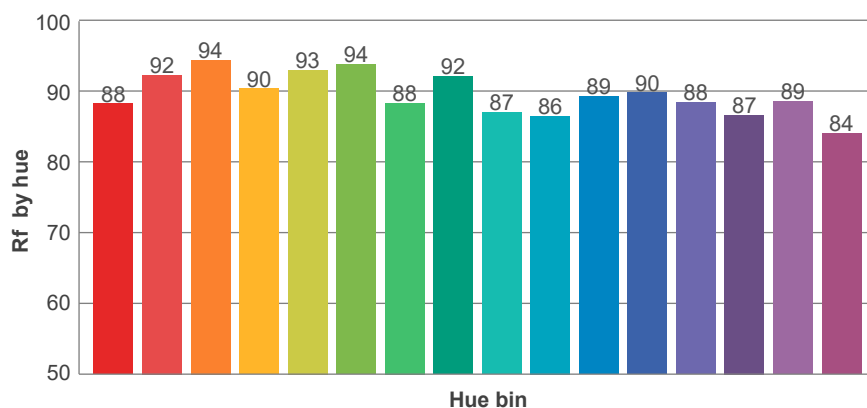
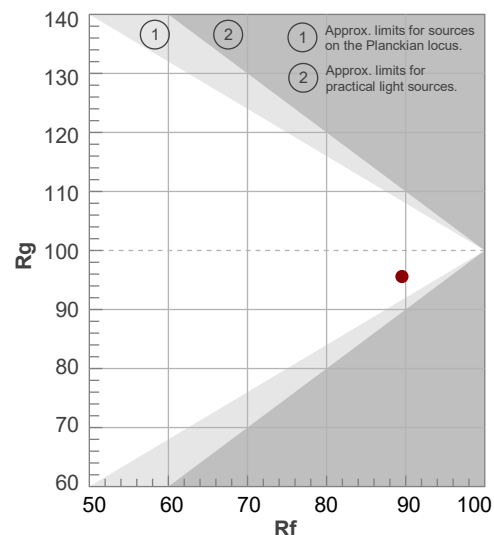
Rf 89,5

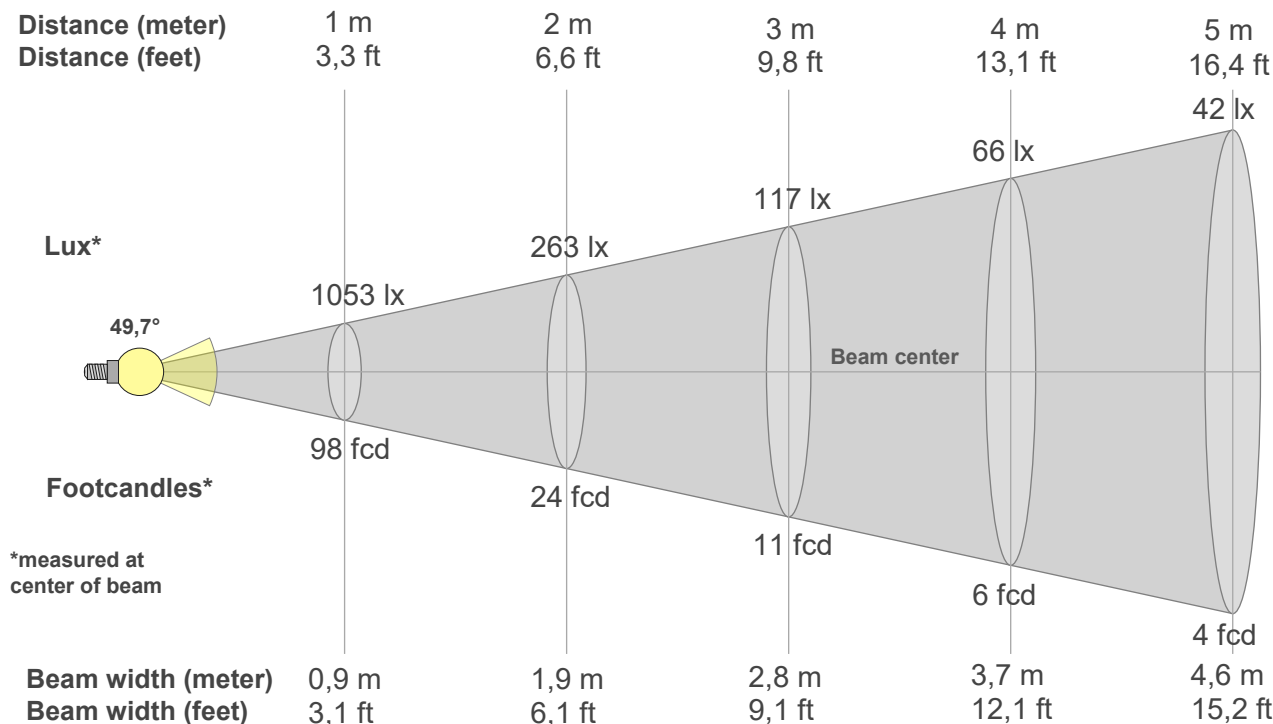
Fidelity index Rf

Rg 95,6

Gammut 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	88	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
1053lx	263lx	117lx	66lx	42lx	29lx	21lx	16lx	13lx	11lx	9lx	7lx	6lx	5lx	5lx	4lx	4lx	3lx	3lx	3lx
97,8fcd	24,5fcd	10,9fcd	6,1fcd	3,9fcd	2,7fcd	2fcd	1,5fcd	1,2fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	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°
1053	1059	1063	1030	874	612	356	208	136	99	79	66	63	65	69	69	61	61	61	53
100%	101%	101%	98%	83%	58%	34%	20%	13%	9%	7%	6%	6%	6%	7%	7%	6%	6%	6%	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°
1053	1058	1061	1068	1077	1090	1107	1127	1154	1187	1227	1276	1330	1392	1451	1498	1516	1489	1424	1309
100%	100%	101%	101%	102%	103%	105%	107%	110%	113%	117%	121%	126%	132%	138%	142%	144%	141%	135%	124%

Intensities in 180° c-plane

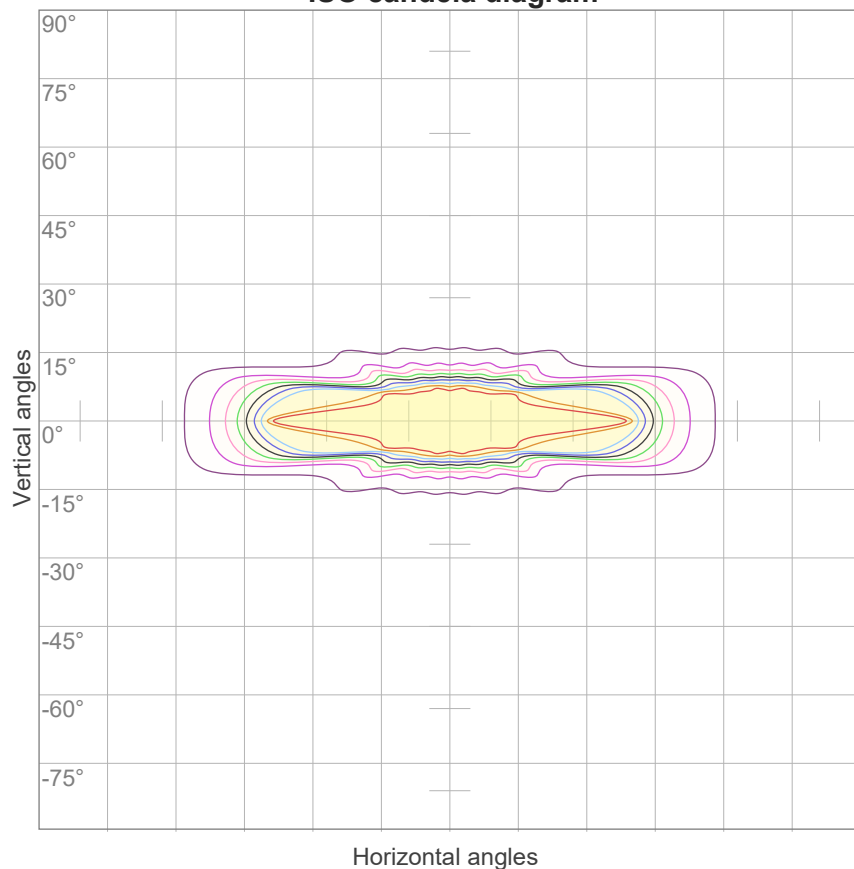
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1053	1059	1063	1030	874	612	356	208	136	99	79	66	63	65	69	69	61	61	61	53
100%	101%	101%	98%	83%	58%	34%	20%	13%	9%	7%	6%	6%	6%	7%	7%	6%	6%	6%	5%

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°
1053	1058	1061	1068	1077	1090	1107	1127	1154	1187	1227	1276	1330	1392	1451	1498	1516	1489	1424	1309
100%	100%	101%	101%	102%	103%	105%	107%	110%	113%	117%	121%	126%	132%	138%	142%	144%	141%	135%	124%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
49,7°	74,1°	131,5°	90,5%	76,7%

ISO candela diagram



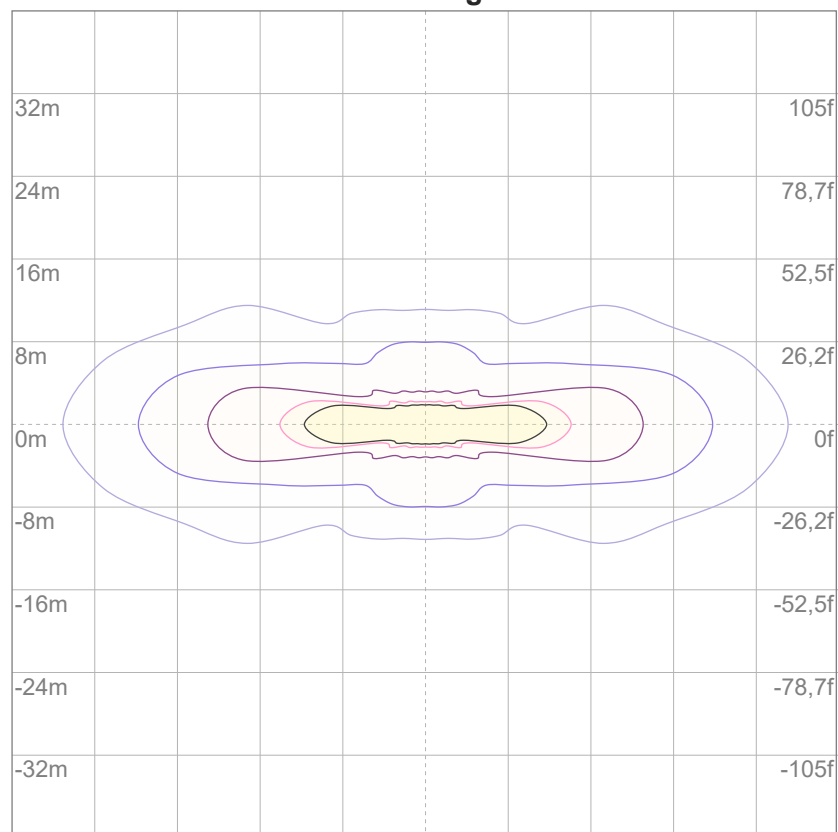
10%	105 cd
20%	211 cd
30%	316 cd
40%	421 cd
50%	527 cd
60%	632 cd
70%	737 cd
80%	842 cd
90%	948 cd

Conditions:

Number of c-planes: 16

Candela at center: 1053 cd

ISO lux diagram



3%	0,316 lx
5%	0,527 lx
10%	1,05 lx
30%	3,16 lx
50%	5,27 lx

Conditions:

Number of c-planes: 16

Lux at center: 10,5 lx

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

Glare Evaluation According to UGR

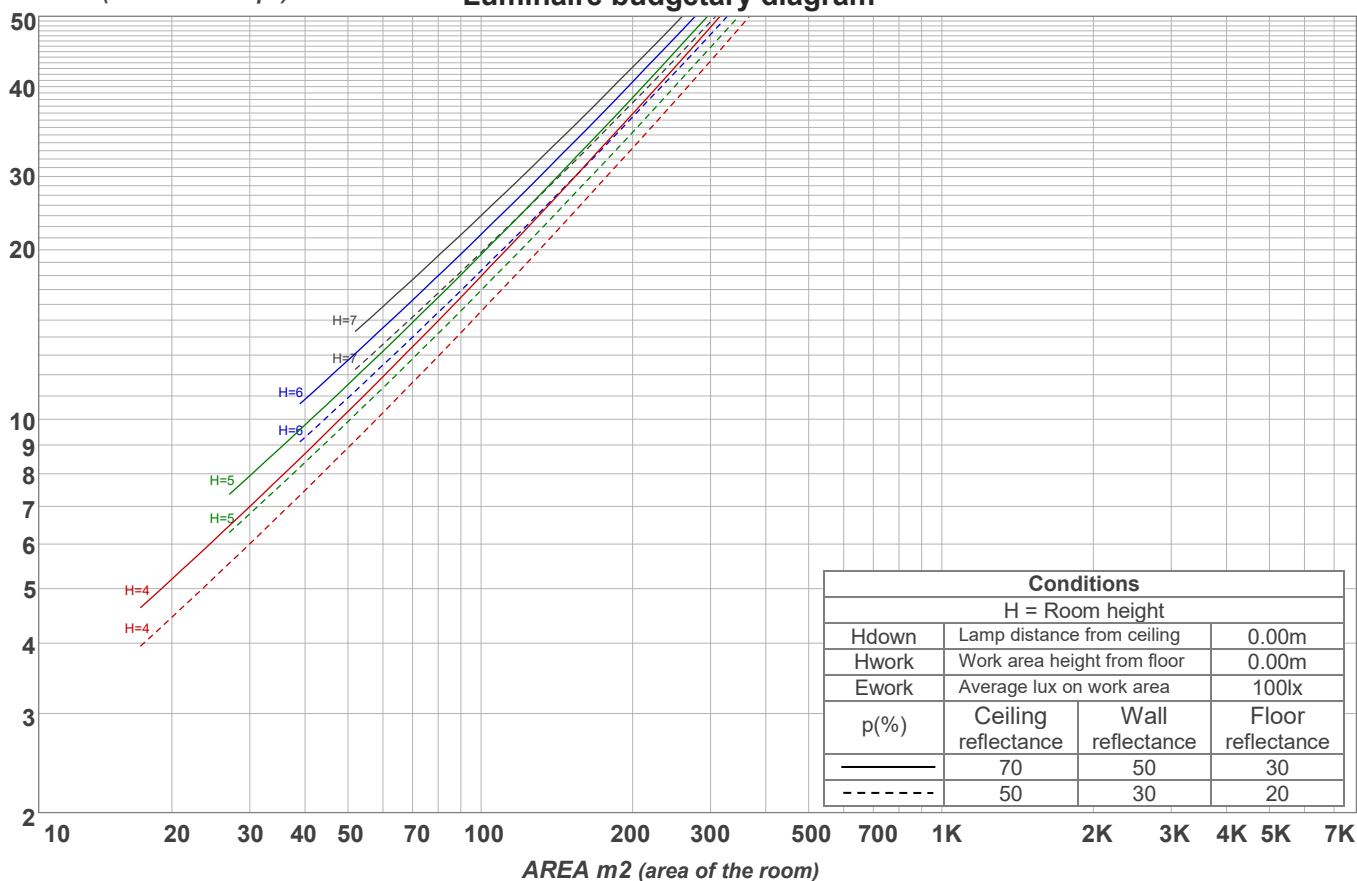
p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X Y		Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	10,1	11,0	10,3	11,2	11,4	24,9	25,8	25,1	26,1	26,3
	3H	10,9	11,8	11,3	12,1	12,3	25,1	26,1	25,5	26,3	26,5
	4H	11,6	12,5	12,0	12,7	13,0	25,2	26,1	25,6	26,4	26,6
	6H	12,7	13,5	13,0	13,7	14,1	25,3	26,1	25,6	26,3	26,7
	8H	13,3	14,1	13,6	14,4	14,8	25,3	26,0	25,6	26,3	26,7
	12H	14,0	14,7	14,4	15,1	15,5	25,2	26,0	25,6	26,3	26,7
4H	2H	11,3	12,3	11,7	12,5	12,7	24,6	25,5	25,0	25,8	26,0
	3H	12,4	13,2	12,8	13,5	13,9	25,0	25,7	25,4	26,1	26,5
	4H	13,1	13,8	13,5	14,2	14,7	25,0	25,7	25,5	26,1	26,7
	6H	14,2	14,9	14,7	15,2	15,6	25,1	25,8	25,6	26,1	26,5
	8H	14,9	15,5	15,4	15,9	16,2	25,1	25,7	25,6	26,1	26,5
	12H	15,6	16,2	16,1	16,6	17,0	25,1	25,6	25,6	26,0	26,5
8H	4H	13,8	14,5	14,4	14,8	15,2	24,9	25,6	25,4	25,9	26,3
	6H	15,2	15,6	15,7	16,1	16,6	25,0	25,5	25,5	26,0	26,5
	8H	16,0	16,4	16,5	16,9	17,5	25,1	25,5	25,6	26,0	26,6
	12H	16,9	17,2	17,5	17,7	18,4	25,1	25,5	25,7	26,0	26,6
12H	4H	14,0	14,5	14,5	14,9	15,4	24,9	25,4	25,4	25,8	26,3
	6H	15,4	15,8	15,9	16,3	17,0	25,1	25,4	25,6	25,9	26,6
	8H	16,3	16,7	16,9	17,2	17,8	25,1	25,4	25,7	25,9	26,5
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 / -4,8				
S = 2.0H		0,3 / -0,5					6,7 / -5,5				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 802 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	111	108	104	101	108	105	102	100	101	98	96	97	95	93	93	91	90	88
2	104	98	93	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	97	89	83	78	95	88	82	77	85	80	76	82	78	74	79	76	73	71
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	66	65
5	86	76	69	63	84	74	68	63	72	67	62	70	65	61	69	64	61	59
6	81	70	63	58	79	69	62	58	67	61	57	66	61	57	64	60	56	54
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	60	55	52	50
8	72	61	54	49	71	60	54	49	59	53	49	58	53	49	57	52	48	47
9	68	57	51	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44
10	65	54	47	43	64	54	47	43	53	47	43	52	46	43	51	46	42	41

LAMPS (number of lamps)

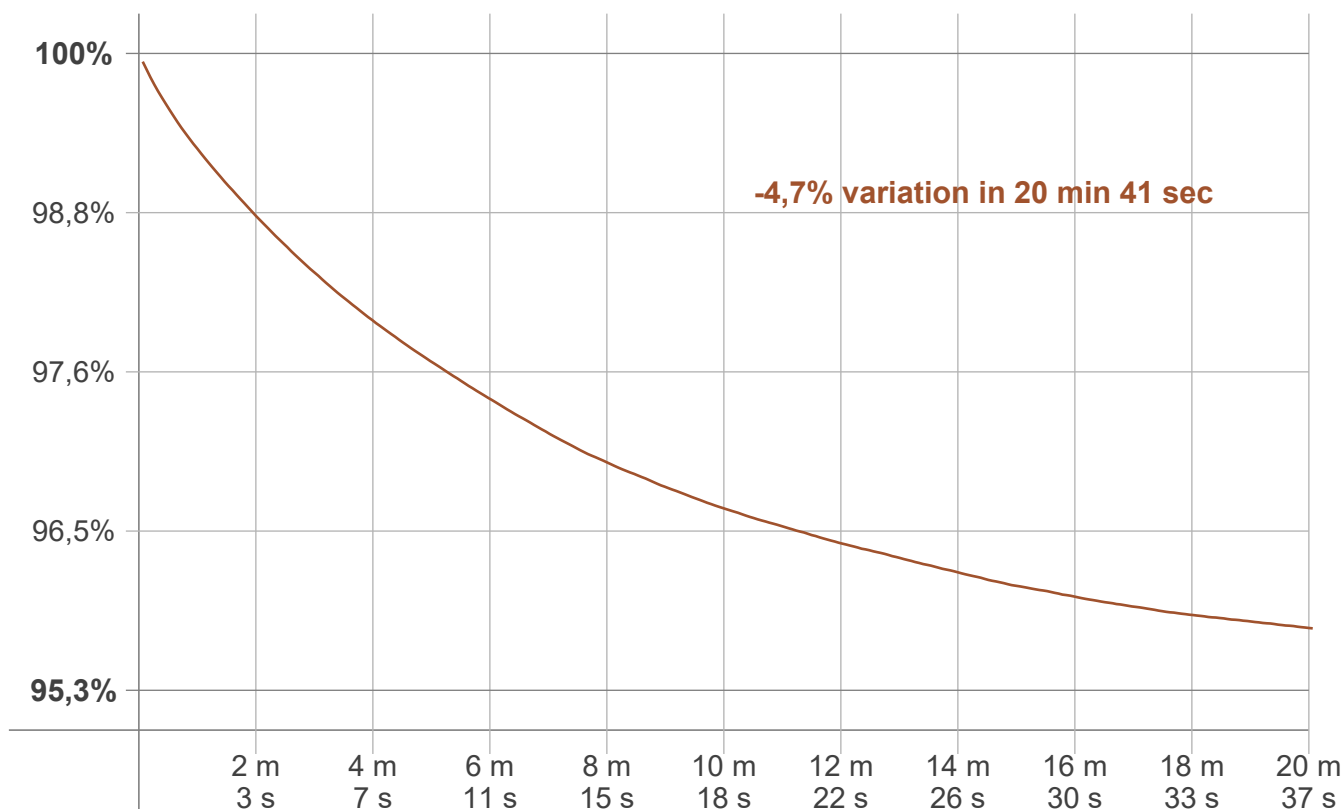
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
92,4 lm	168 lm	141 lm	151 lm	111 lm	62,4 lm	34,3 lm	18,8 lm	11,4 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
1,36 lm	3,36 lm	0,502 lm	0,453 lm	0,299 lm	0,184 lm	0,135 lm	0,083 lm	5,53 lm

Warmup curve



Warmup result

Warmup time:	Lamp stabilized in 20 min 41 sec
Warmup variation	-4,7%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2734 K	-5 K	2729 K

Output change

Output start	Output change	Output end
840 lm	-38 lm	802 lm