

Light efficiency:

115 Lumen/Watt

Light quality:

CRI: 83,1

Color temperature:

4054 K

Output: 941 lm

Peak: 922 cd

Power: 8,2 W

PF: 1,0



Product name:

Pegasus-3-Gold-0508-840-LAF-2

Item number:

FLNP-L-16A-0508-840-LAF-2

Date and time:

23.02.2021 15:45:50

Description:

Rank: S15ZT

Toleranzen:

Lumen +/-4%

Candela +/-2,5%

Colour Temp +/-35 Grad K

CRI +/-0,7

Angular Resolution 1 Grad step

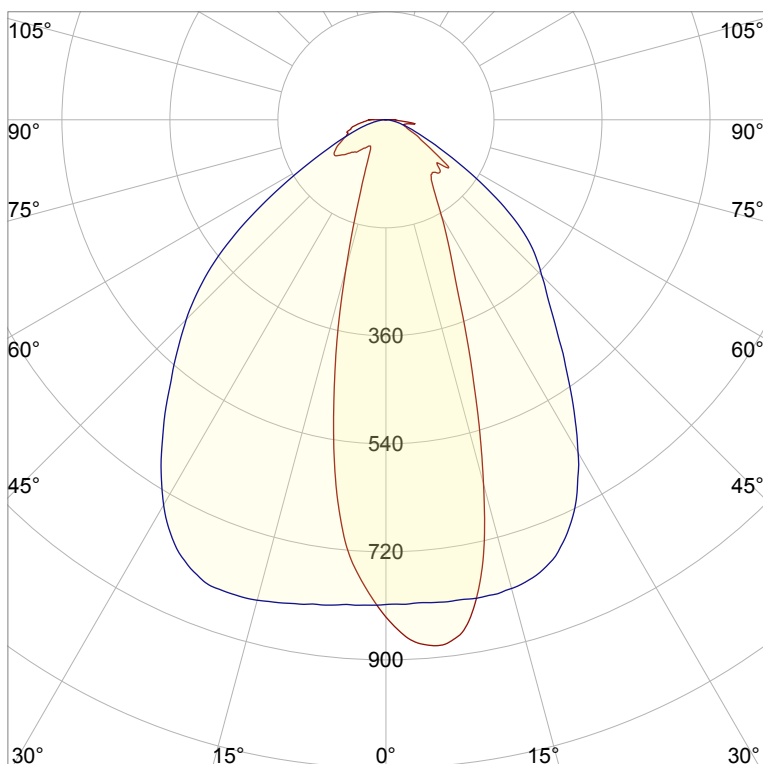
Last Calibration 20-05-2020

Pruefer: Peter Ulrich

Pruefort: Lichtlabor

Gaustasse13-15

55411 Bingen am Rhein

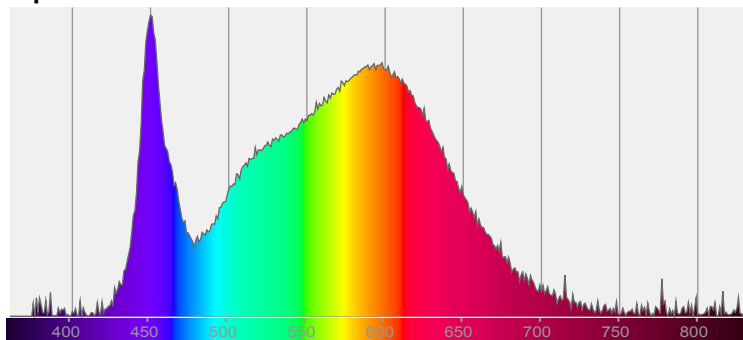


CIE 1931

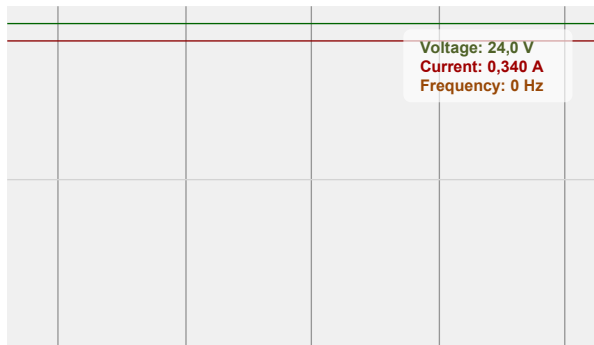
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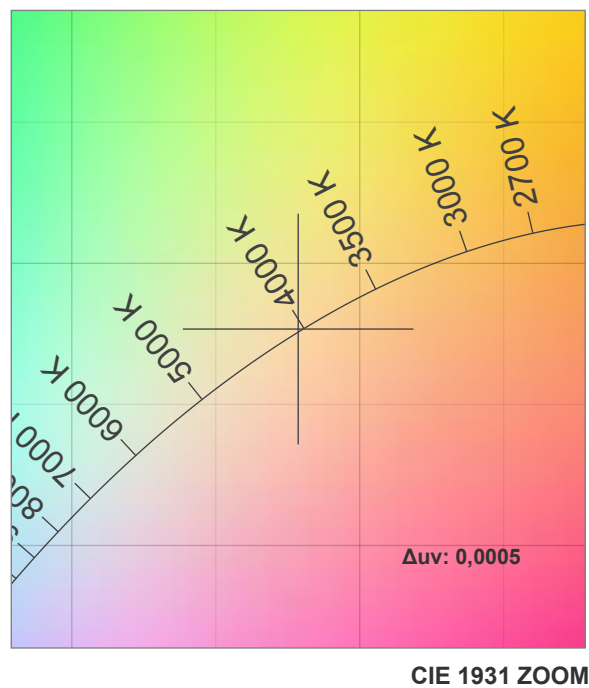
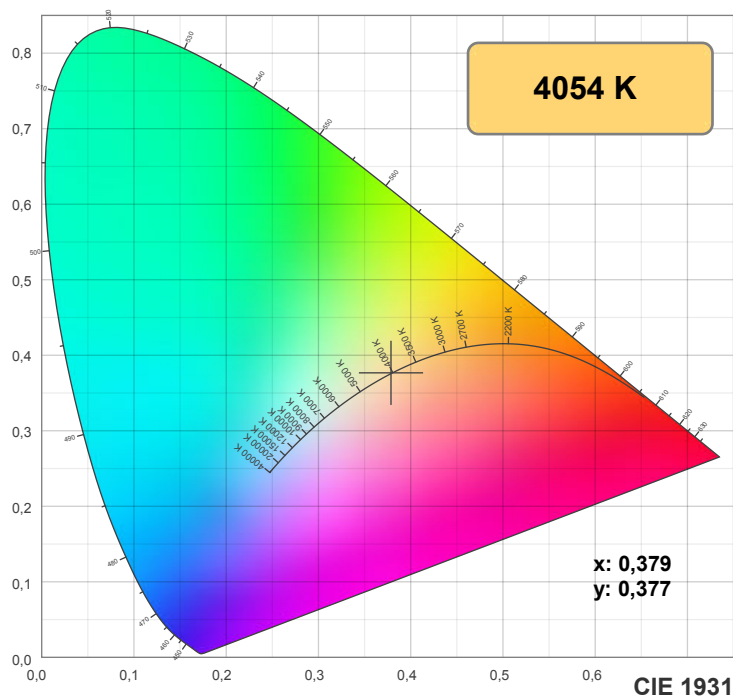
y: 0,377

Spectra

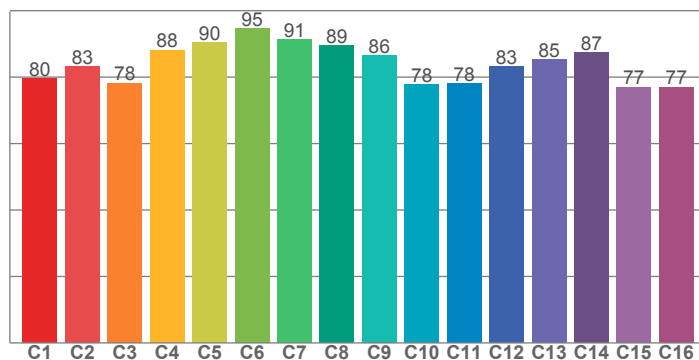


Power

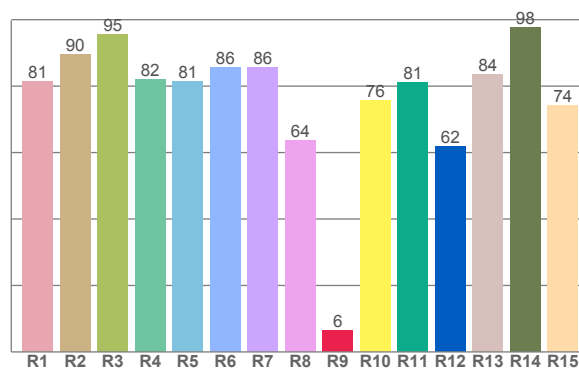




TM30: 84,0



CRI: 83,1 (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
81,3	89,7	95,5	81,9	81,4	85,5	85,6	63,8	6,4	75,6	81,1	61,8	83,5	97,8	74,2

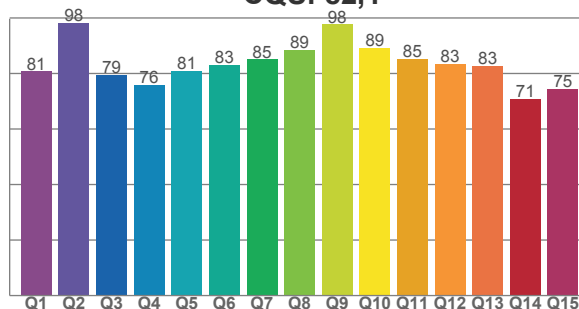
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,5	83,1	78,2	88,2	90,4	94,7	91,4	89,4	86,5	77,8	78,0	83,2	85,3	87,4	77,0	77,0

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80,7	98,1	79,3	75,9	81,0	83,1	85,0	88,6	97,7	89,1	85,2	83,4	82,7	70,9	74,6

CQS: 82,1



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
4054 K	83,1	6,4	84,0	95,1	82,1	0,379	0,377	0,224	0,334	0,0005

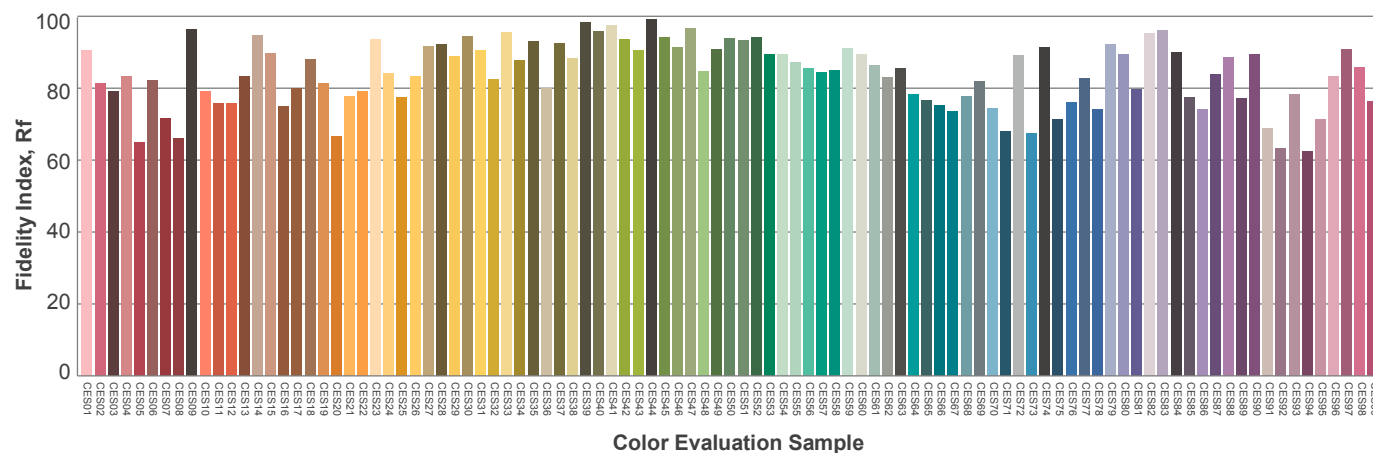
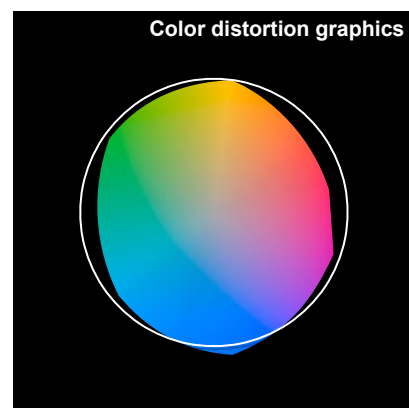
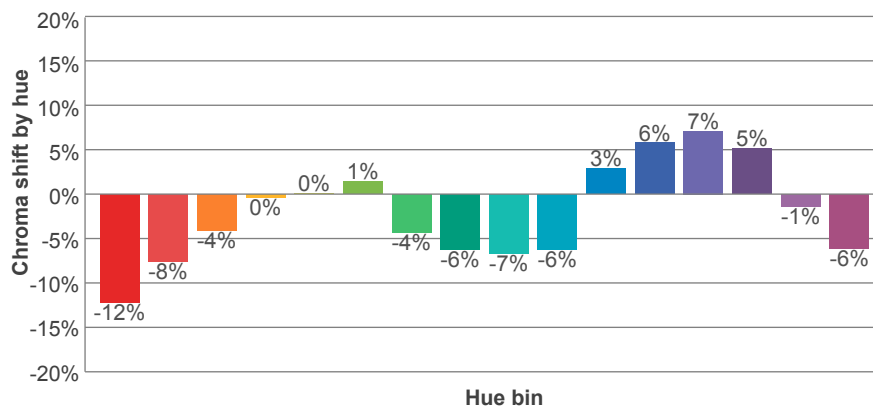
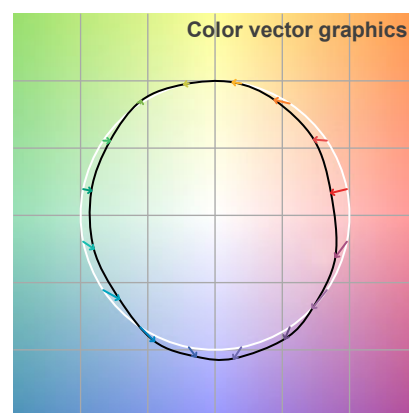
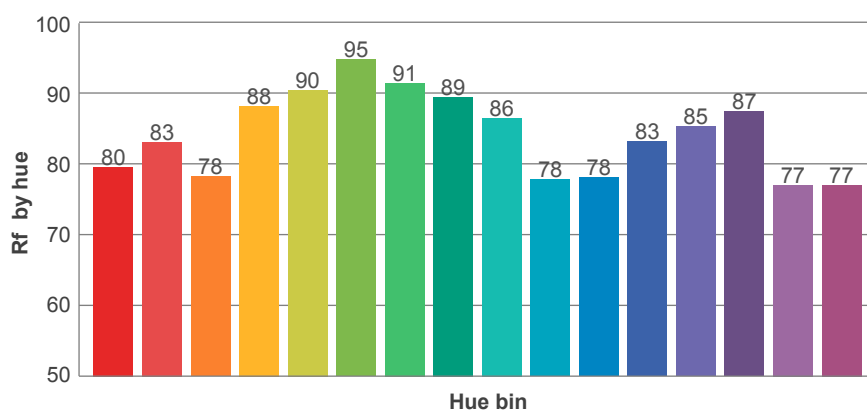
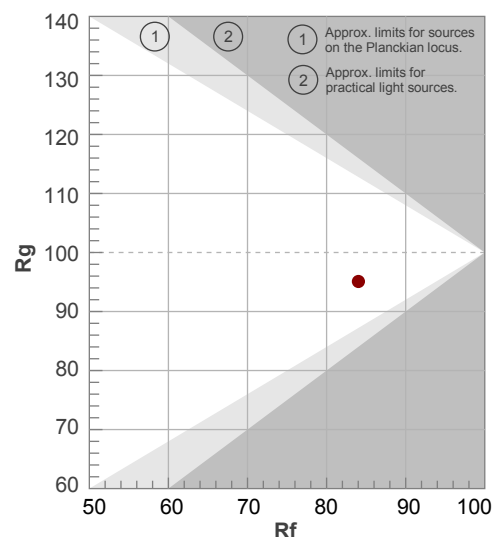
Rf 84,0

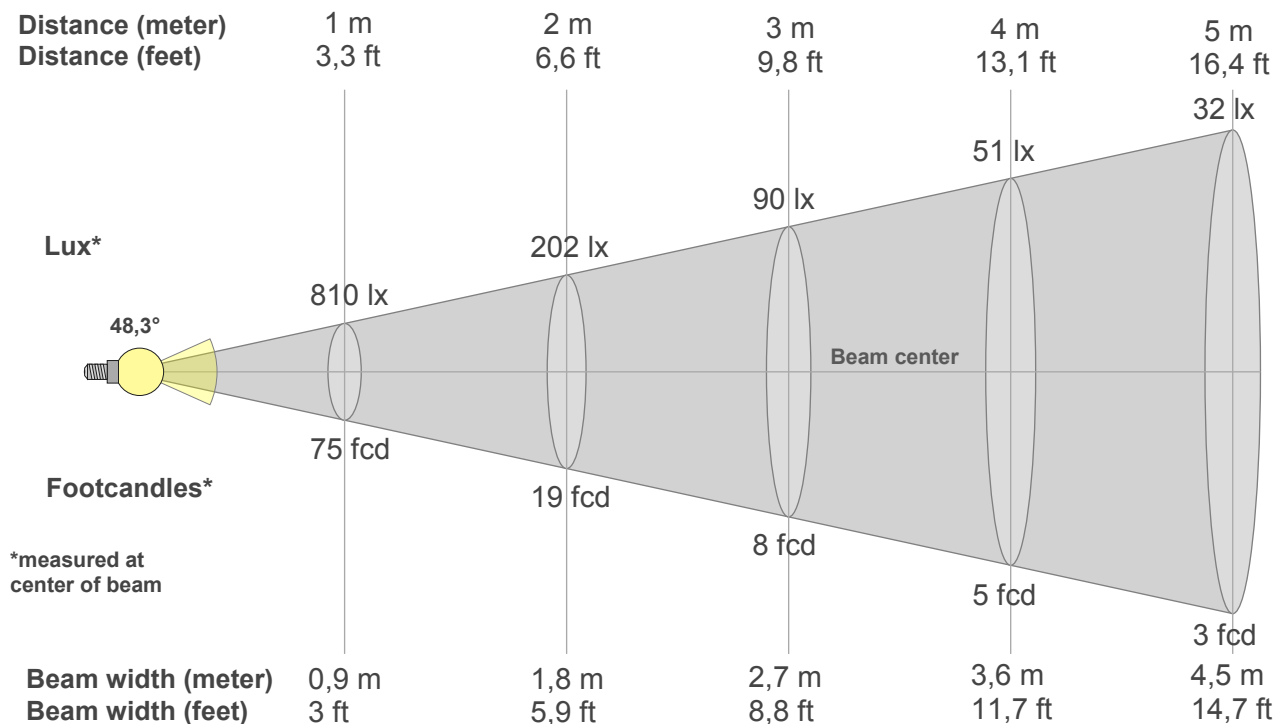
Fidelity index Rf

Rg 95,1

Gamut index Rg

Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	80	-12%	0%
2	83	-8%	6%
3	78	-4%	11%
4	88	0%	6%
5	90	0%	4%
6	95	1%	-2%
7	91	-4%	-3%
8	89	-6%	0%
9	86	-7%	7%
10	78	-6%	12%
11	78	3%	14%
12	83	6%	6%
13	85	7%	-7%
14	87	5%	-8%
15	77	-1%	-17%
16	77	-6%	-13%





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
810lx	202lx	90lx	51lx	32lx	22lx	17lx	13lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx
75,2fcd	18,8fcd	8,4fcd	4,7fcd	3fcd	2,1fcd	1,5fcd	1,2fcd	0,9fcd	0,8fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	0,2fcd	0,2fcd	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°
810	859	876	880	868	831	767	679	578	483	401	331	280	243	212	185	162	145	131	123
100%	106%	108%	109%	107%	103%	95%	84%	71%	60%	49%	41%	35%	30%	26%	23%	20%	18%	16%	15%

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°
810	808	807	809	809	811	811	810	807	800	789	772	748	718	681	640	596	553	510	471
100%	100%	100%	100%	100%	100%	100%	100%	100%	99%	97%	95%	92%	89%	84%	79%	74%	68%	63%	58%

Intensities in 180° c-plane

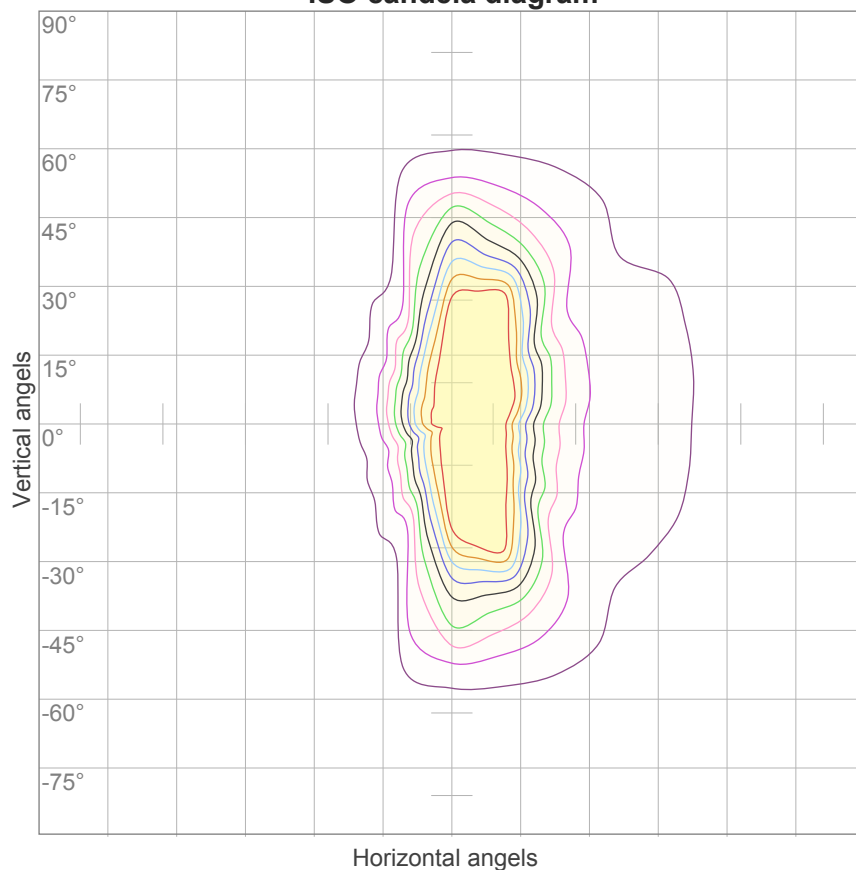
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
810	790	747	688	603	502	401	303	219	158	118	92	74	62	55	51	52	54	58	60
100%	98%	92%	85%	75%	62%	50%	37%	27%	20%	15%	11%	9%	8%	7%	6%	6%	7%	7%	7%

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°
810	809	810	813	816	819	823	827	830	831	830	824	812	795	771	741	706	669	630	592
100%	100%	100%	100%	101%	101%	102%	102%	103%	103%	103%	102%	100%	98%	95%	91%	87%	83%	78%	73%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48,3°	99,1°	173°	85,1%	68,3%

ISO candela diagram



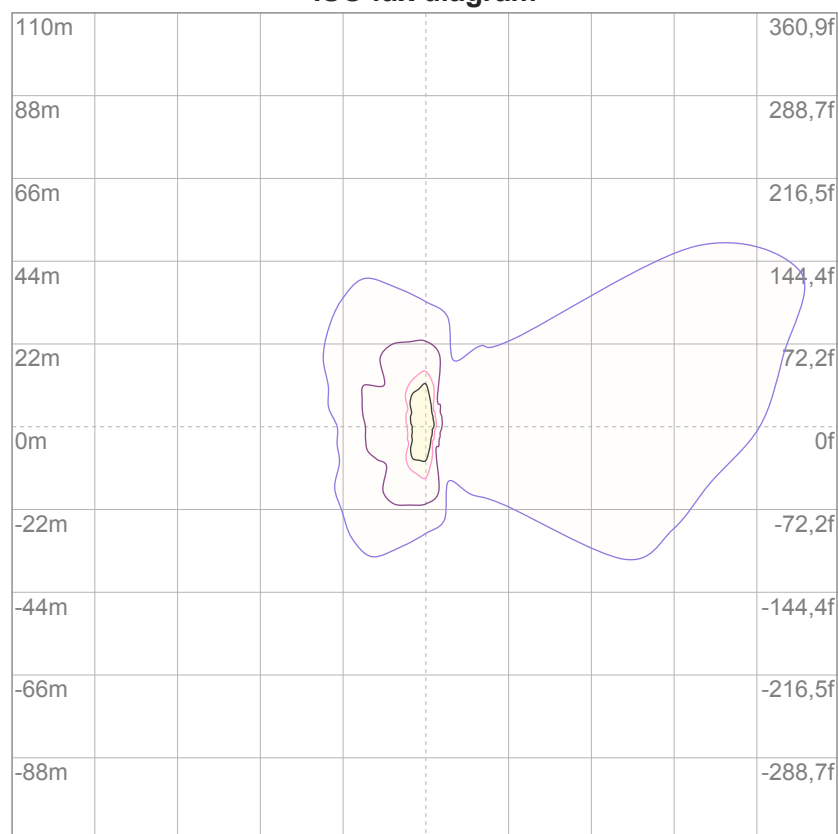
10%	81 cd
20%	162 cd
30%	243 cd
40%	324 cd
50%	405 cd
60%	486 cd
70%	567 cd
80%	648 cd
90%	729 cd

Conditions:

Number of c-planes: 16

Candela at center: 810 cd

ISO lux diagram



3%	0,243 lx
5%	0,405 lx
10%	0,810 lx
30%	2,43 lx
50%	4,05 lx

Conditions:

Number of c-planes: 16

Lux at center: 8,10 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 941 lm total luminous flux										

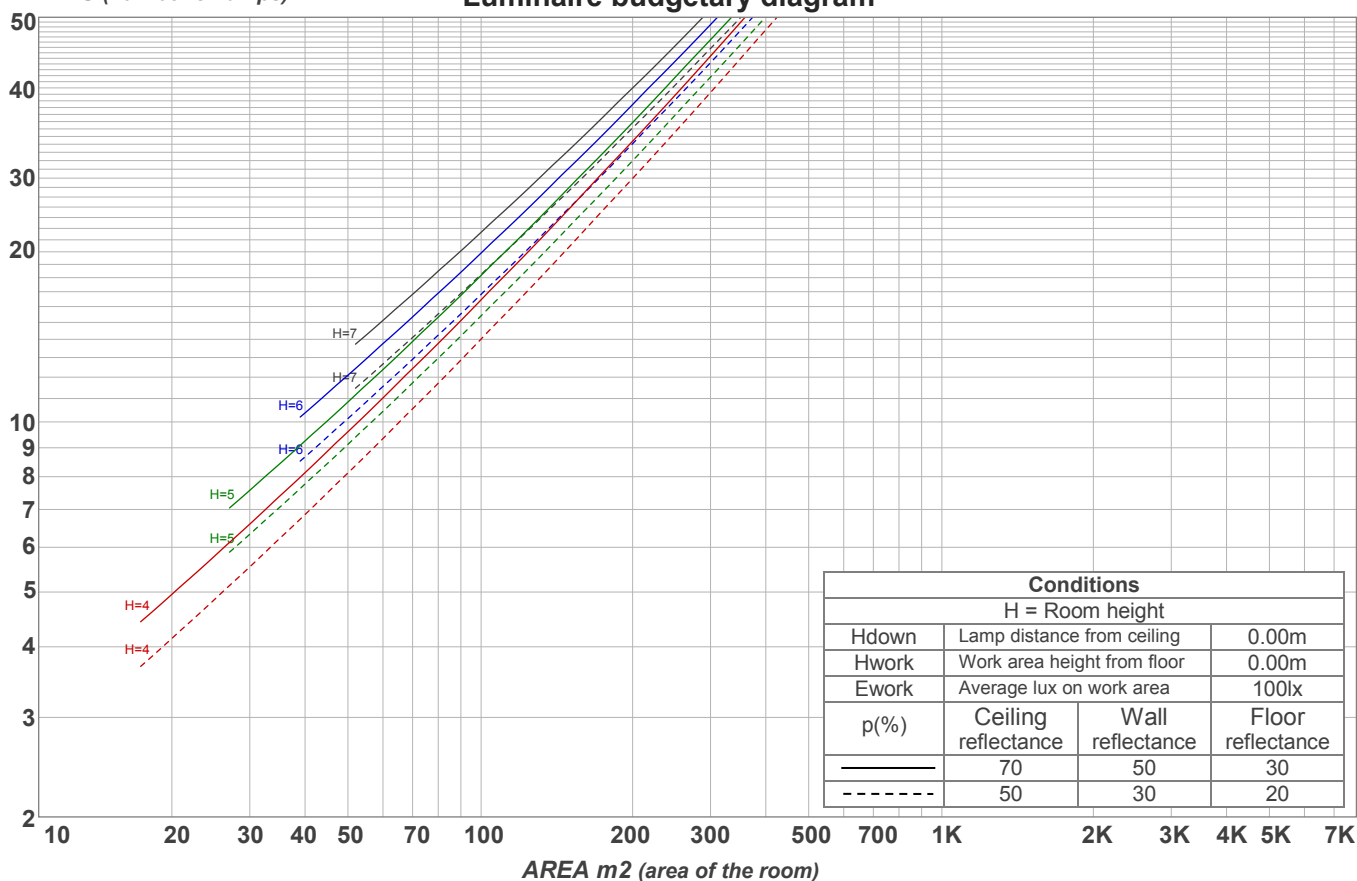
UGR data could not be calculated due to missing/wrong symmetry. Goto Edit->Photometric->Corrections and select Correct asymmetry.

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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	102	94	89	84	99	93	87	83	89	85	81	86	82	79	83	80	77	75
3	94	85	78	73	92	84	77	72	81	75	71	78	73	69	76	72	68	66
4	88	77	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59
5	82	71	63	57	80	70	63	57	68	61	56	66	60	56	64	59	55	53
6	77	65	57	52	75	64	57	52	63	56	51	61	55	51	60	54	50	49
7	72	60	53	47	71	60	52	47	58	52	47	57	51	47	56	50	46	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38
10	61	49	42	38	60	49	42	37	48	42	37	47	41	37	46	41	37	36

LAMPS (number of lamps)

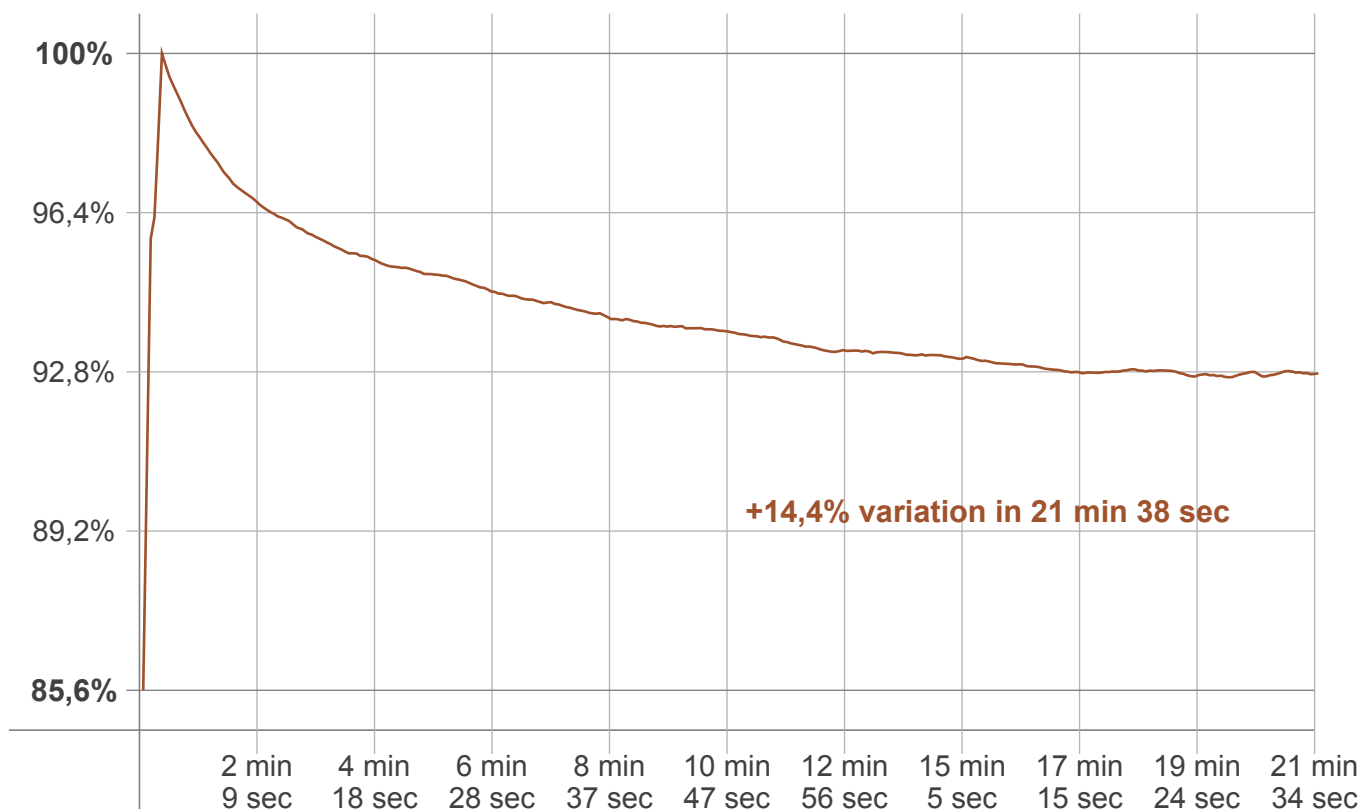
Luminaire budgetary diagram



Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
74,1 lm	172 lm	180 lm	152 lm	123 lm	99,9 lm	66,5 lm	43,0 lm	30,5 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,085 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:	21 min 38 sec
Warmup variation	+16,7%

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4039 K	+15 K	4054 K

Output change

Output start	Output change	Output end
885 lm	+56 lm	941 lm