Light efficiency:

122 Lumen/Watt

Light quality:

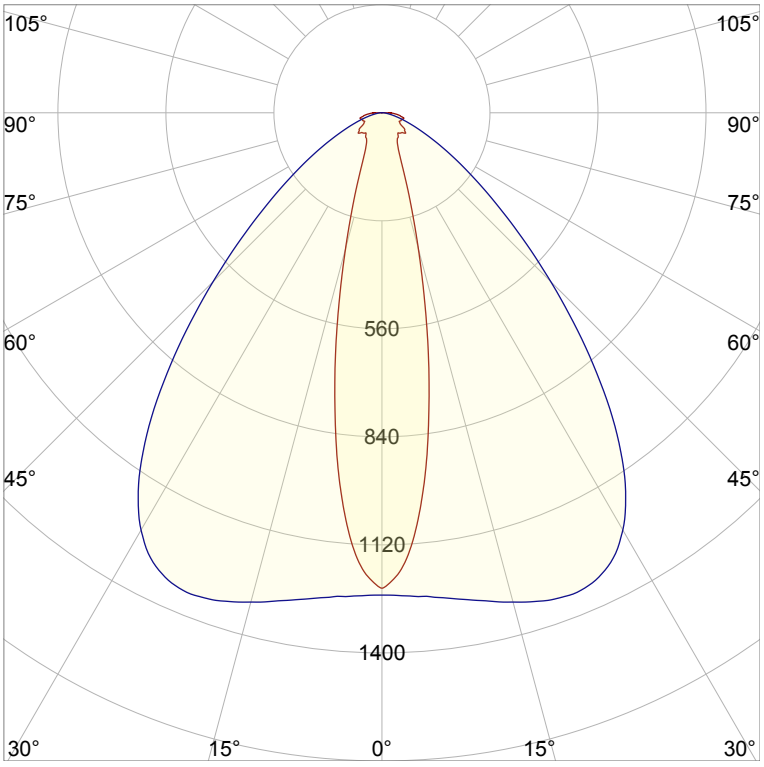
CRI: 83,4

Color temperature:

4067 K

Output: 998 lm
Peak: 1342 cd

Power: 8,2 W
PF: 1,0



Product name:
Pegasus-3-Gold-0508-840-L1F

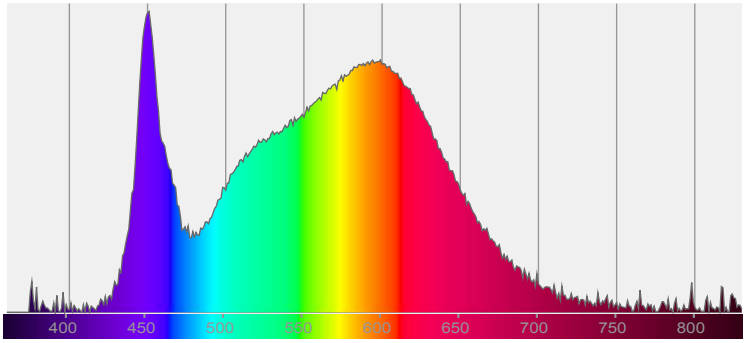
Item number:
FLNP-L-16A-0508-840-L1F

Date and time:
23.02.2021 15:08:33

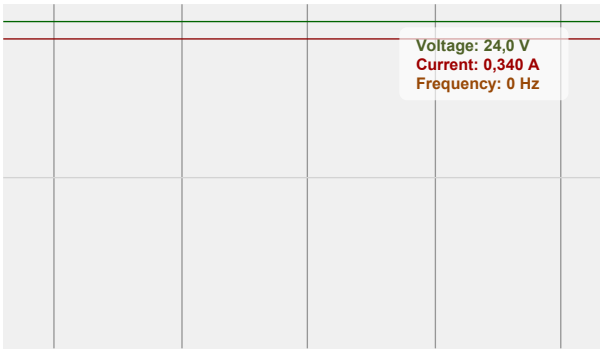
Description:
Rank: S15ZT
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Grad K
CRI +/-0,7
Angular Resolution 1 Grad step
Last Calibration 20-05-2020
Pruefer: Peter Ulrich
Pruefort: Lichtlabor
Gaustrasse13-15
55411 Bingen am Rhein

CIE 1931
x: 0,378
y: 0,376

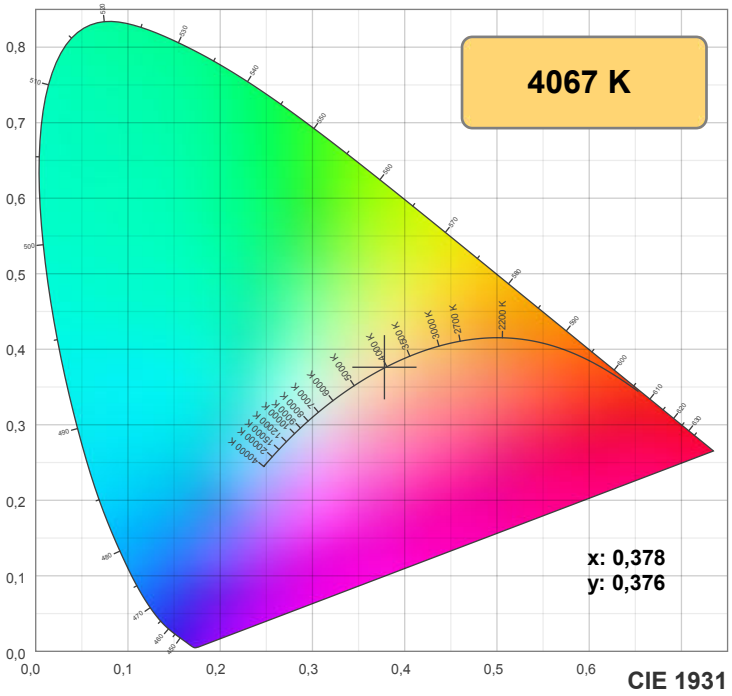
Spectra



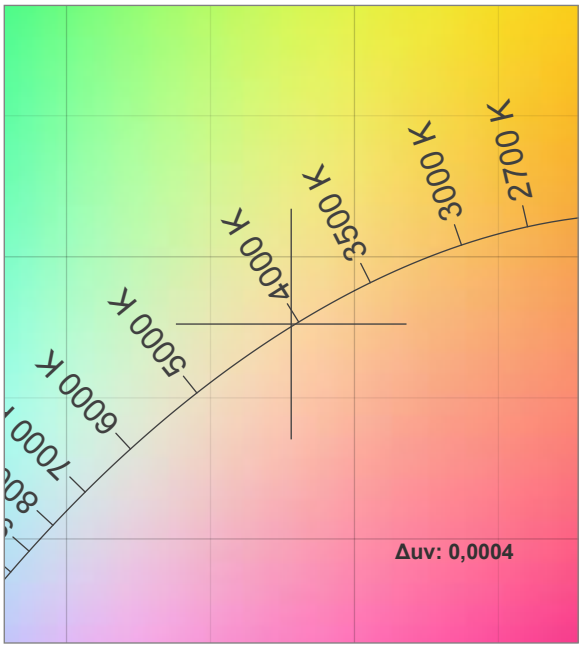
Power



Color details

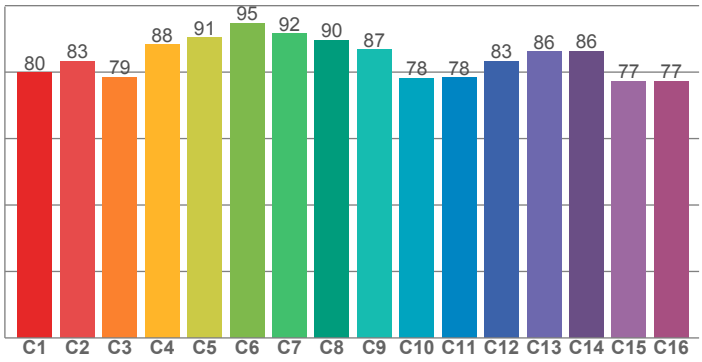


CIE 1931

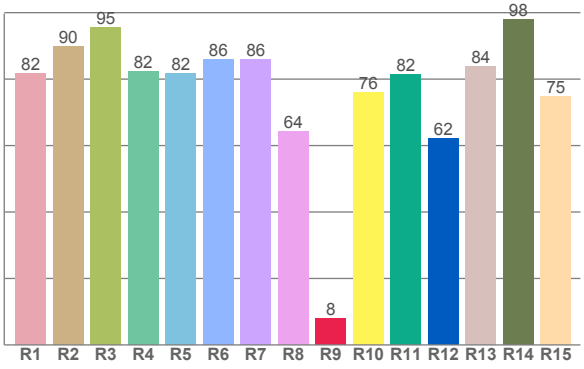


CIE 1931 ZOOM

TM30: 84,3



CRI: 83,4 (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
81,7	89,9	95,5	82,3	81,8	85,8	85,8	64,4	8,0	76,0	81,5	62,3	83,9	97,8	74,7

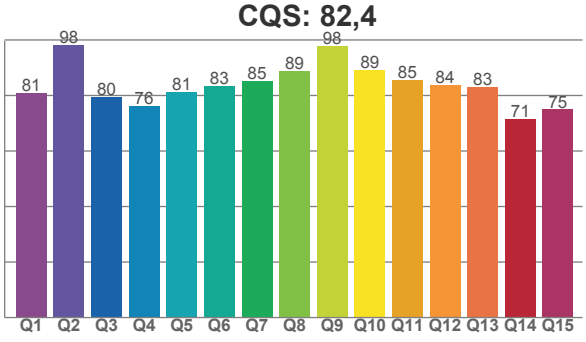
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79,9	83,4	78,5	88,3	90,5	94,8	91,6	89,6	86,7	78,2	78,3	83,4	86,1	86,4	77,3	77,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81,0	98,2	79,6	76,2	81,3	83,4	85,3	88,8	97,7	89,2	85,4	83,7	83,0	71,4	75,0

CQS: 82,4



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
4067 K	83,4	8,0	84,3	95,1	82,4	0,378	0,376	0,224	0,334	0,0004

TM30 details

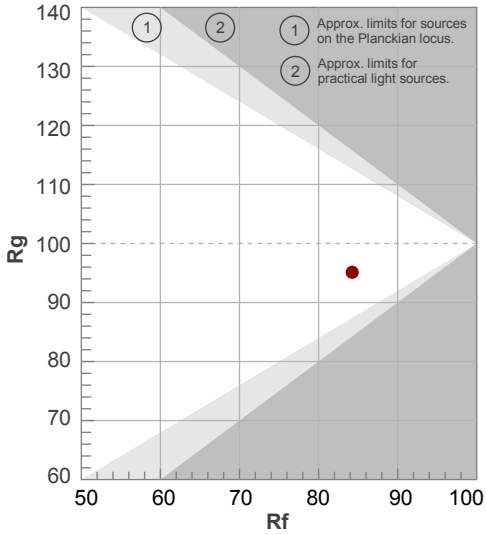
Rf 84,3

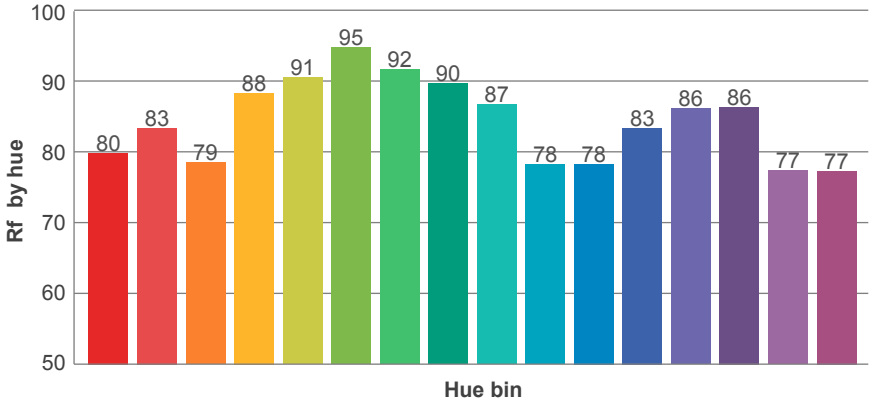
Fidelity index Rf

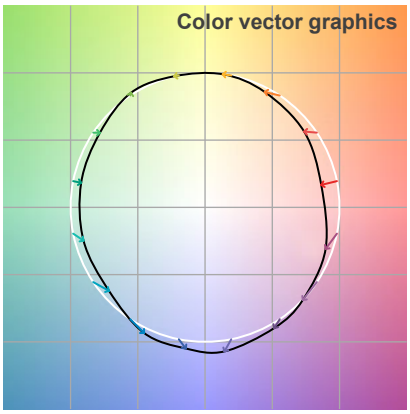
Rg 95,1

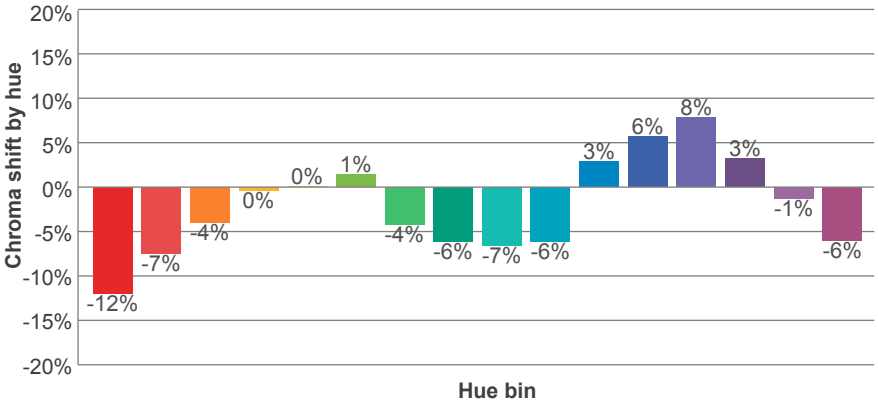
Gammut index Rg

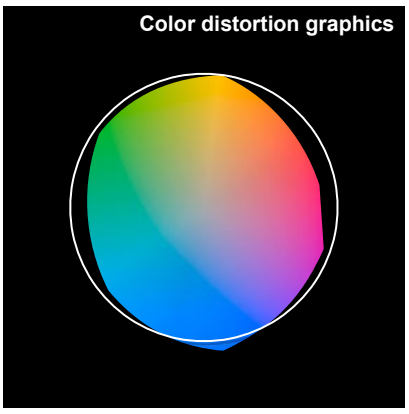
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	80	-12%	0%
2	83	-7%	6%
3	79	-4%	11%
4	88	0%	6%
5	91	0%	4%
6	95	1%	-2%
7	92	-4%	-3%
8	90	-6%	0%
9	87	-7%	7%
10	78	-6%	12%
11	78	3%	14%
12	83	6%	6%
13	86	8%	-7%
14	86	3%	-7%
15	77	-1%	-17%
16	77	-6%	-13%

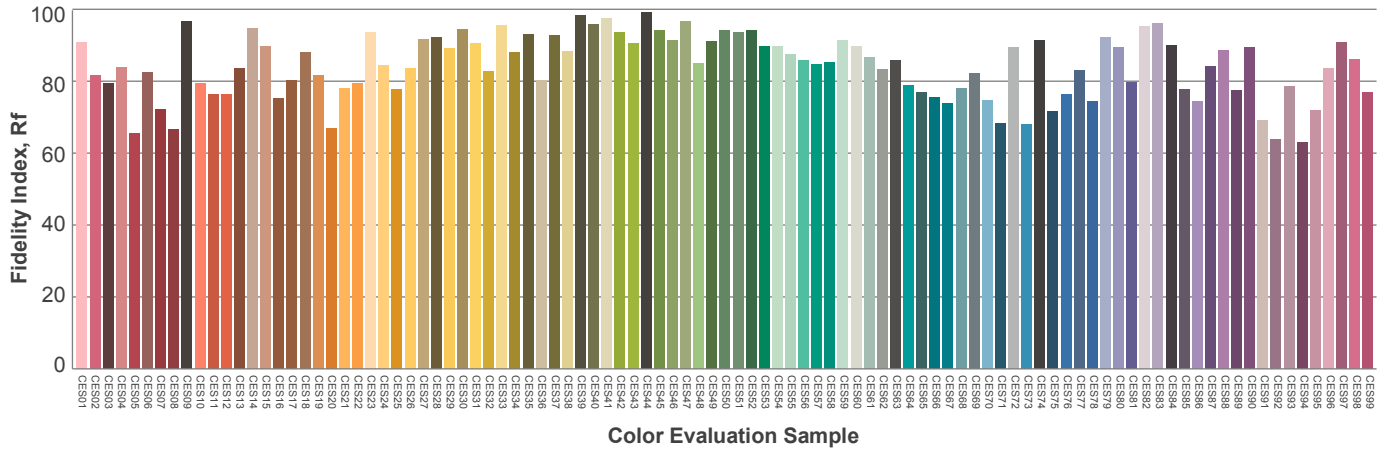




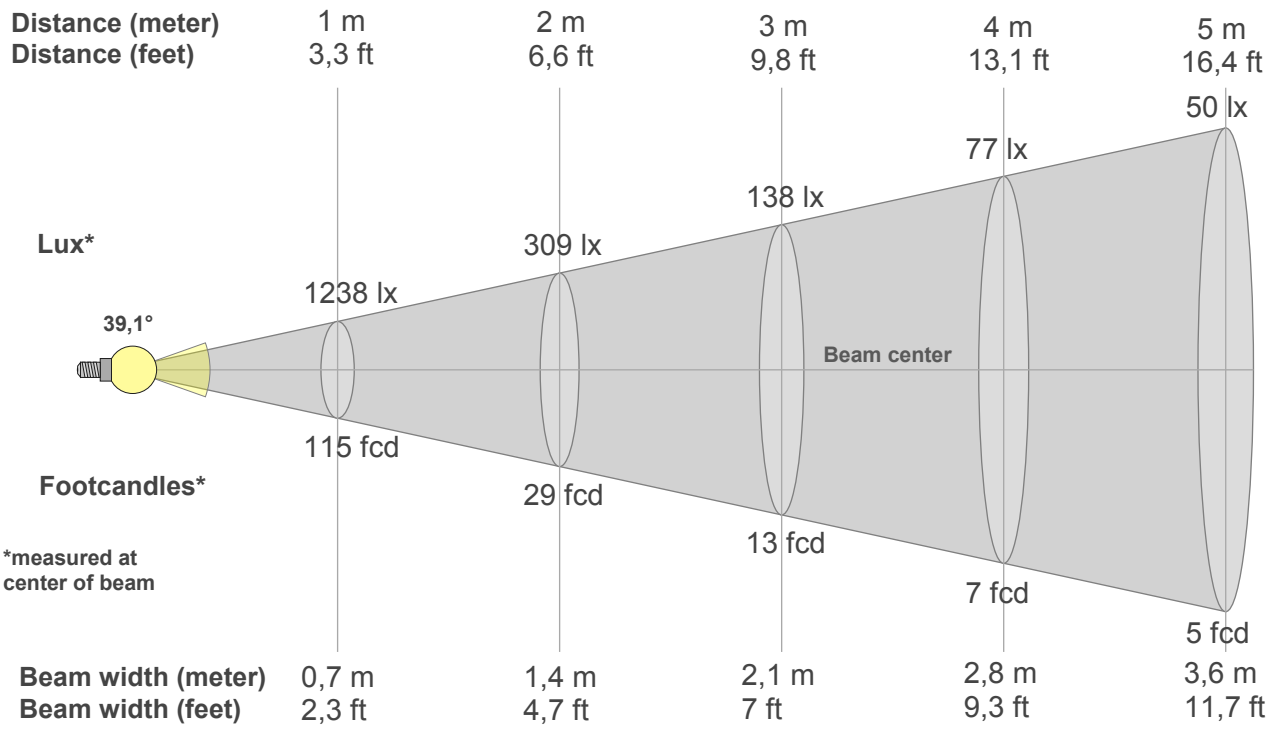








Beam details



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
1238lx	309lx	138lx	77lx	50lx	34lx	25lx	19lx	15lx	12lx	10lx	9lx	7lx	6lx	6lx	5lx	4lx	4lx	3lx	3lx
115fcd	28,7fcd	12,8fcd	7,2fcd	4,6fcd	3,2fcd	2,3fcd	1,8fcd	1,4fcd	1,1fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	0,4fcd	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°
1238	1195	1118	999	856	702	555	422	313	231	169	129	106	93	85	80	77	75	71	67
100%	97%	90%	81%	69%	57%	45%	34%	25%	19%	14%	10%	9%	8%	7%	6%	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°
1238	1252	1257	1262	1271	1282	1293	1307	1319	1331	1339	1342	1335	1319	1291	1248	1192	1122	1039	949
100%	101%	102%	102%	103%	104%	104%	106%	107%	108%	108%	108%	108%	107%	104%	101%	96%	91%	84%	77%

Intensities in 180° c-plane

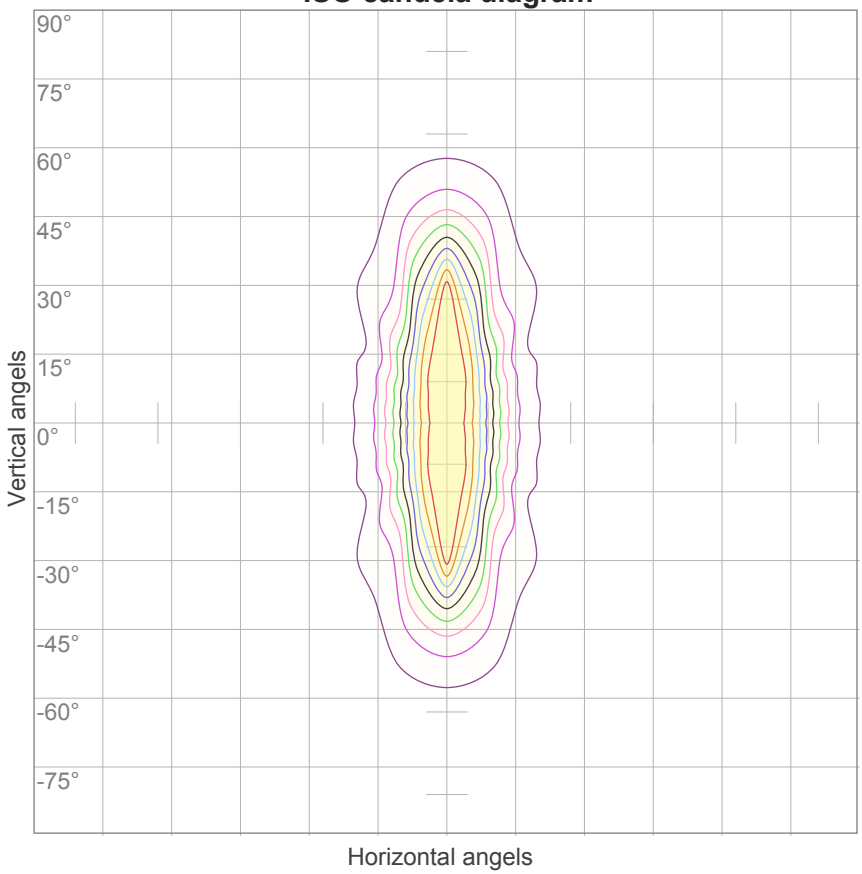
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1238	1195	1118	999	856	702	555	422	313	231	169	129	106	93	85	80	77	75	71	67
100%	97%	90%	81%	69%	57%	45%	34%	25%	19%	14%	10%	9%	8%	7%	6%	6%	6%	6%	5%

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°
1238	1252	1257	1262	1271	1282	1293	1307	1319	1331	1339	1342	1335	1319	1291	1248	1192	1122	1039	949
100%	101%	102%	102%	103%	104%	104%	106%	107%	108%	108%	108%	108%	107%	104%	101%	96%	91%	84%	77%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
39,1°	**70,1°**	**161,7°**	**83,9%**	**70,0%**

ISO candela diagram



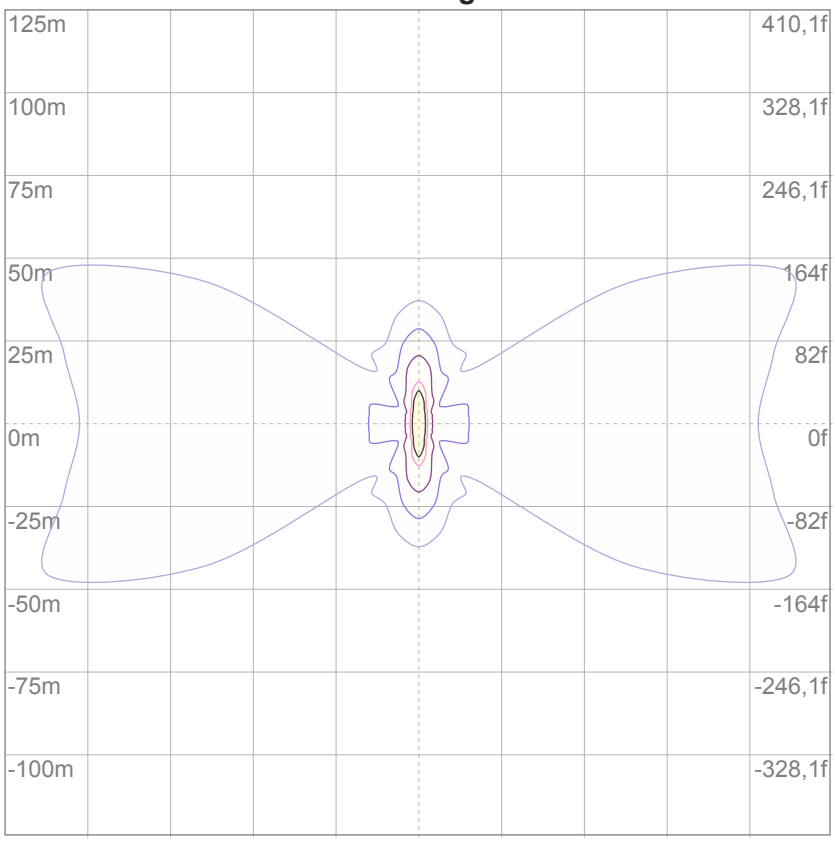
10%	124 cd
20%	248 cd
30%	371 cd
40%	495 cd
50%	619 cd
60%	743 cd
70%	866 cd
80%	990 cd
90%	1114 cd

Conditions:

Number of c-planes: 16

Candela at center: 1238 cd

ISO lux diagram



3%	0,371 lx
5%	0,619 lx
10%	1,24 lx
30%	3,71 lx
50%	6,19 lx

Conditions:

Number of c-planes: 16

Lux at center: 12,4 lx

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

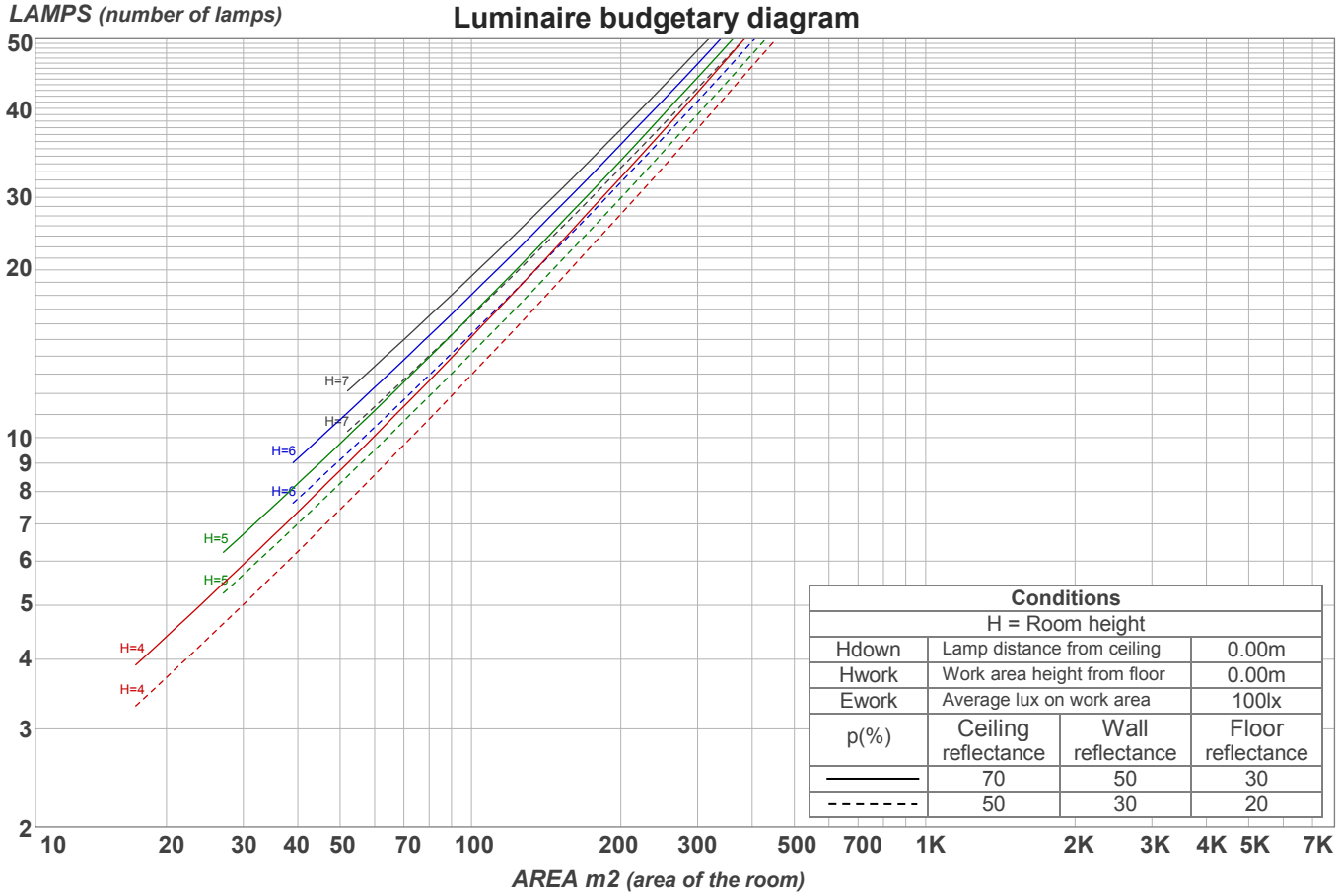
Glare Evaluation According to UGR

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				
2H	2H	14,6	15,5	14,8	15,8	16,0	23,5	24,5	23,7	24,7	24,9
	3H	16,6	17,6	17,0	17,8	18,0	24,0	25,0	24,4	25,2	25,4
	4H	18,0	19,0	18,4	19,3	19,5	24,1	25,1	24,5	25,4	25,6
	6H	19,4	20,3	19,7	20,6	20,9	24,3	25,1	24,6	25,4	25,8
	8H	19,9	20,8	20,3	21,1	21,5	24,3	25,1	24,6	25,4	25,8
	12H	20,3	21,1	20,7	21,5	21,9	24,3	25,1	24,7	25,4	25,9
4H	2H	15,2	16,2	15,6	16,5	16,7	23,3	24,2	23,7	24,5	24,7
	3H	17,5	18,3	17,9	18,7	19,1	23,9	24,7	24,3	25,1	25,5
	4H	19,1	19,9	19,6	20,3	20,8	24,1	24,8	24,5	25,2	25,8
	6H	20,7	21,4	21,2	21,7	22,1	24,2	25,0	24,7	25,3	25,7
	8H	21,3	21,9	21,8	22,3	22,7	24,3	25,0	24,8	25,3	25,7
	12H	21,7	22,3	22,2	22,7	23,2	24,3	24,9	24,8	25,3	25,7
8H	4H	19,5	20,2	20,0	20,5	20,9	24,1	24,7	24,6	25,1	25,5
	6H	21,3	21,8	21,8	22,2	22,8	24,3	24,8	24,8	25,3	25,8
	8H	22,1	22,5	22,6	23,1	23,7	24,5	24,9	25,0	25,4	26,0
	12H	22,8	23,1	23,3	23,6	24,2	24,5	24,9	25,1	25,4	26,0
12H	4H	19,5	20,1	20,0	20,5	21,0	24,0	24,6	24,5	25,0	25,5
	6H	21,4	21,9	21,9	22,4	23,0	24,4	24,8	24,9	25,3	26,0
	8H	22,3	22,6	22,9	23,1	23,8	24,5	24,9	25,1	25,4	26,0
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					1,7 / -1,8				
S = 1.5H		0,1 / -0,1					3,4 / -2,8				
S = 2.0H		0,3 / -0,2					5,0 / -3,6				
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	110	106	102	99	107	103	100	97	98	95	93	94	91	89	89	88	86	84
2	102	95	90	85	99	93	88	84	89	85	81	85	82	79	82	79	76	74
3	95	86	80	74	92	85	79	74	81	76	72	78	74	70	75	72	69	67
4	89	79	72	66	87	78	71	66	75	69	65	72	67	63	70	66	62	60
5	83	73	65	60	81	72	65	60	69	63	59	67	62	58	65	60	57	55
6	78	67	60	55	77	66	59	54	64	58	54	62	57	53	61	56	52	51
7	74	63	56	50	72	62	55	50	60	54	50	59	53	49	57	52	48	47
8	70	59	52	47	68	58	51	46	56	50	46	55	50	46	54	49	45	44
9	66	55	48	44	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	63	52	45	41	62	51	45	41	50	44	40	49	44	40	48	43	40	38

Luminaire budgetary diagram

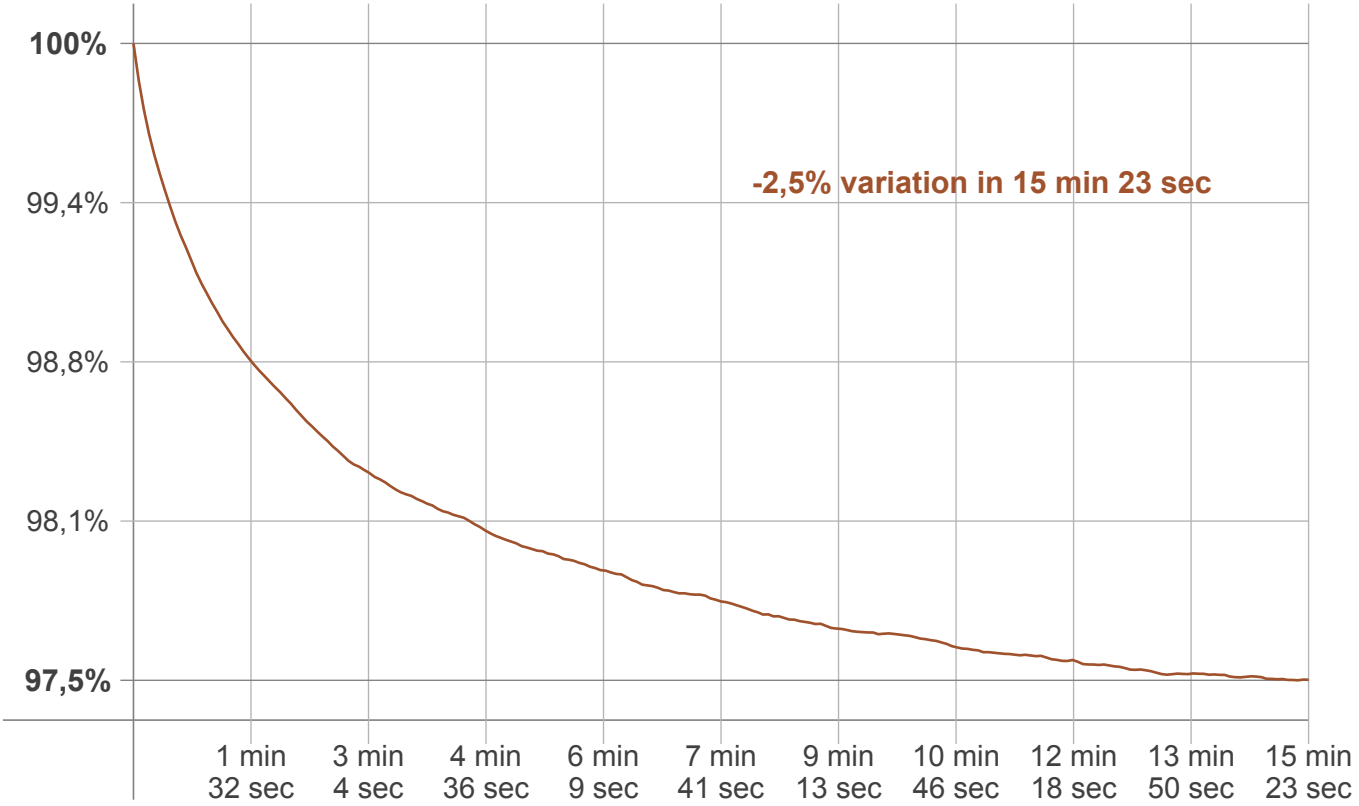


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
104 lm	200 lm	180 lm	151 lm	117 lm	84,7 lm	54,5 lm	41,3 lm	27,5 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
10,1 lm	6,62 lm	5,90 lm	5,33 lm	3,70 lm	2,54 lm	1,87 lm	1,15 lm	0,387 lm

Warmup curve



Warmup result

Warmup time:	**15 min 23 sec**
Warmup variation	**-2,5%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
4049 K	+18 K	4067 K

Output change

Output start	Output change	Output end
1019 lm	-21 lm	998 lm