Light efficiency:

89 Lumen/Watt

Light quality:

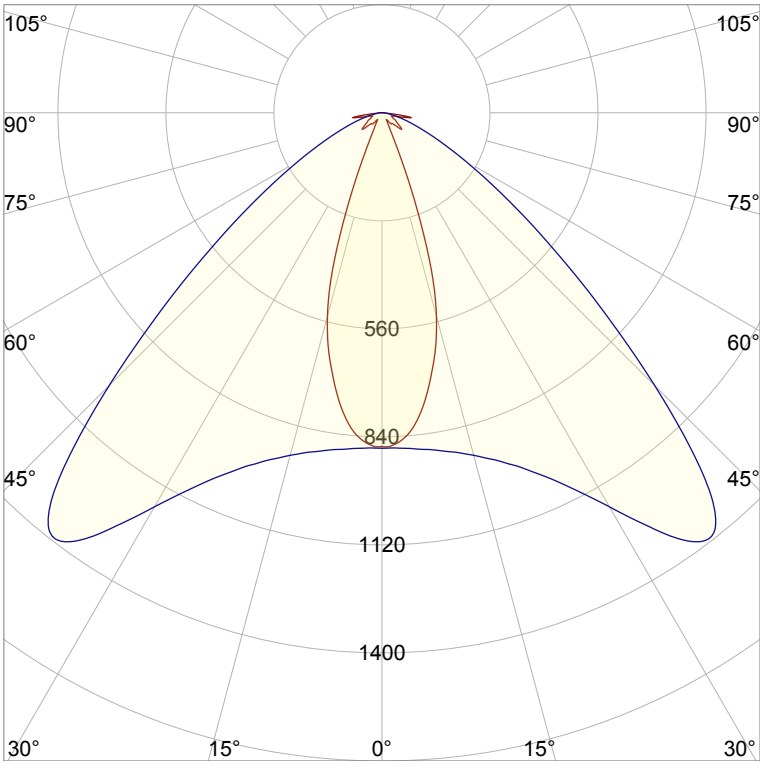
CRI: 92,6

Color temperature:

3113 K

Output: 901 lm
Peak: 1392 cd

Power: 10,1 W
PF: 1,0



Product name:
Pegasus-3-Gold-0508-930-L3T

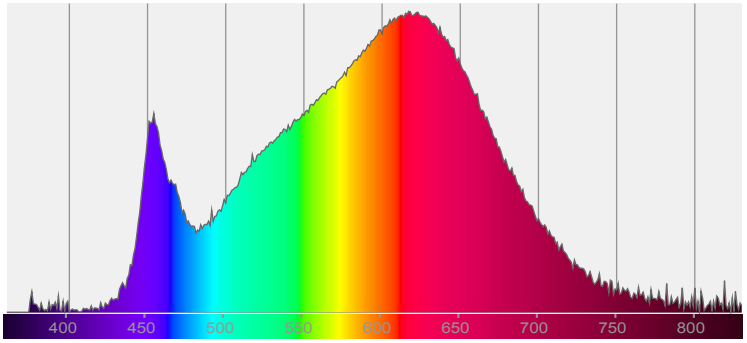
Item number:
FLNP/L/16A0508/930/L3T

Date and time:
05.05.2021 12:55:15

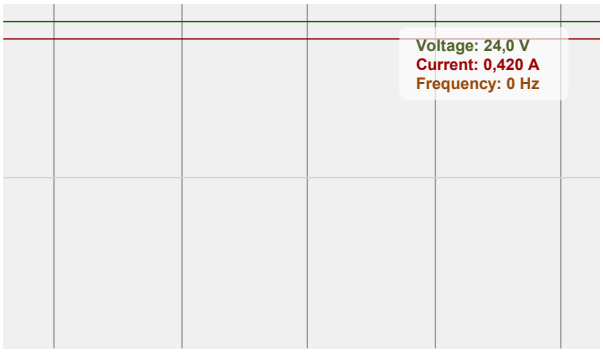
Description:
Rank: M27ZT
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 K
CRI +/- 0,7
Angular Resolution 1 Grad step
Last Calibration 20-05-2020
Pruefer: Peter Ulrich
Pruefort: Lichtlabor
Gaustrasse13
55411 Bingen am Rhein

CIE 1931
x: 0,427
y: 0,395

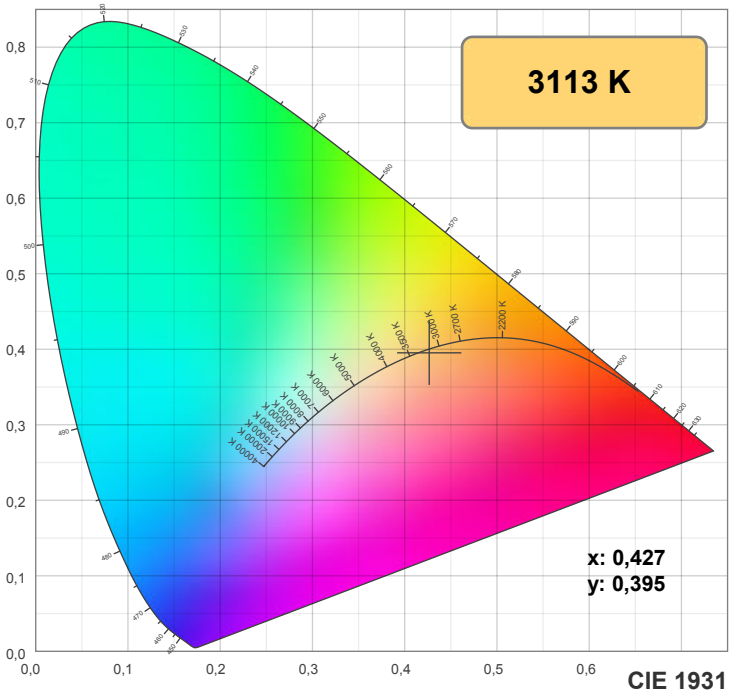
Spectra



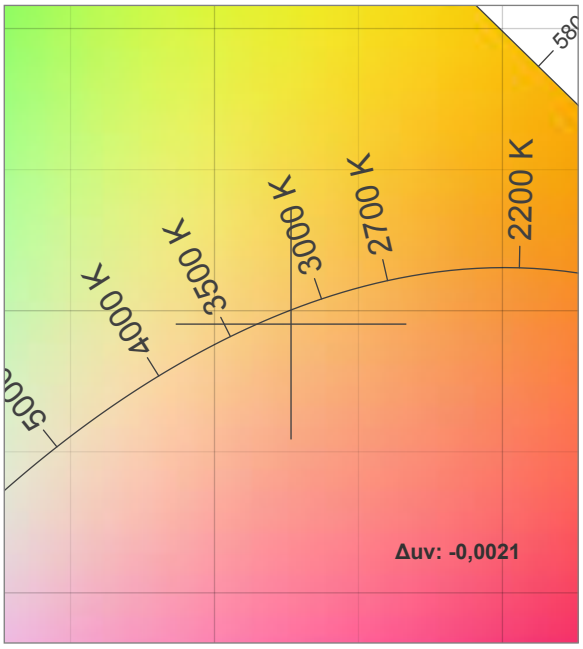
Power



Color details

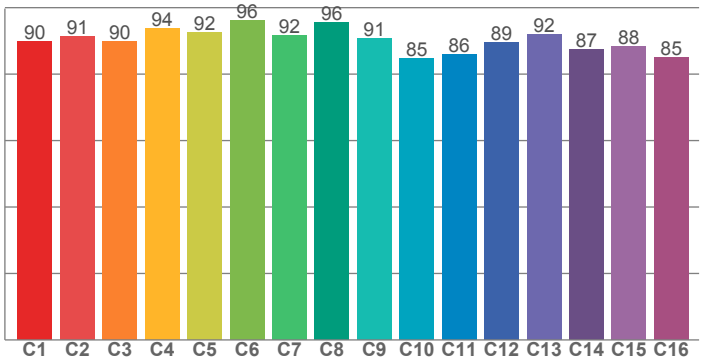


CIE 1931

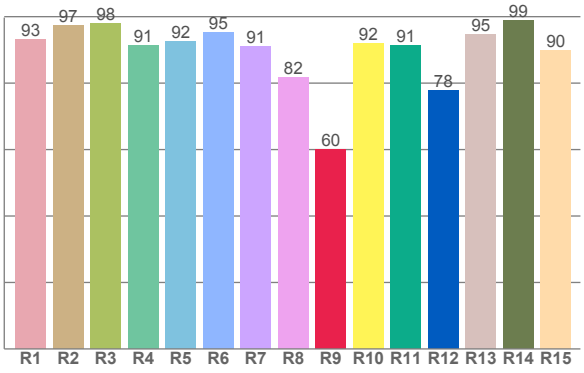


CIE 1931 ZOOM

TM30: 90,3



CRI: 92,6 (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
93,1	97,3	98,1	91,4	92,5	95,2	91,1	81,8	60,2	92,1	91,5	77,8	94,5	98,9	89,8

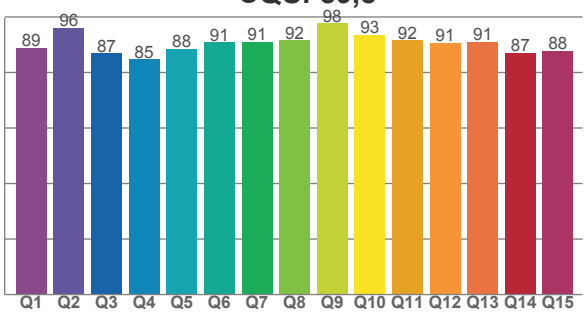
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
89,7	91,4	89,8	93,7	92,4	96,1	91,6	95,5	90,7	84,7	85,9	89,5	92,0	87,4	88,3	84,9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
88,7	96,1	86,8	84,7	88,4	90,8	90,9	91,5	97,6	93,5	91,6	90,8	90,9	87,1	87,6

CQS: 89,8



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
3113 K	92,6	60,2	90,3	98,6	89,8	0,427	0,395	0,248	0,344	-0,0021

TM30 details

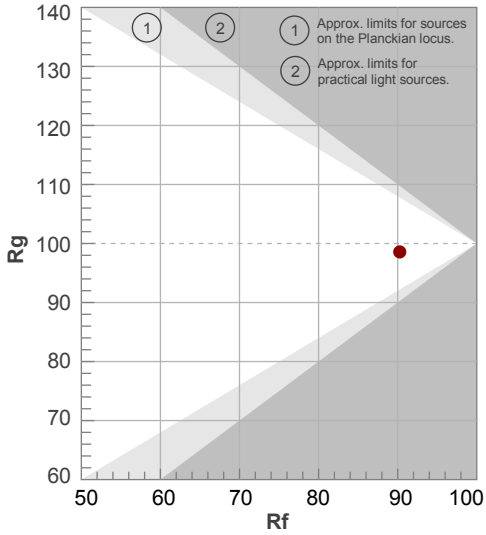
Rf 90,3

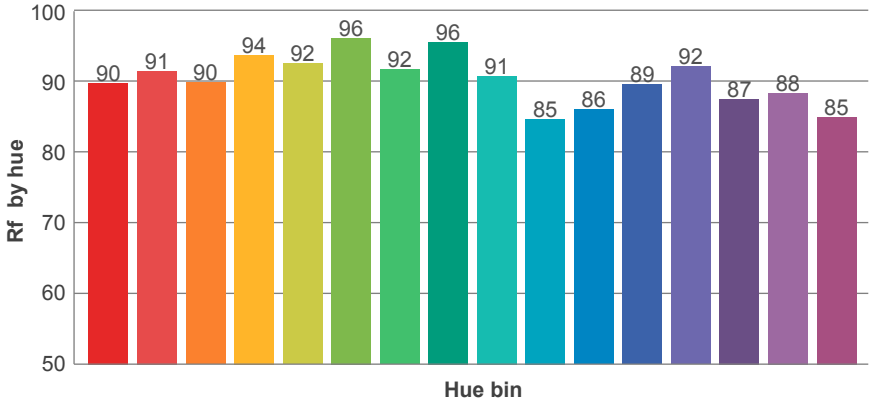
Fidelity index Rf

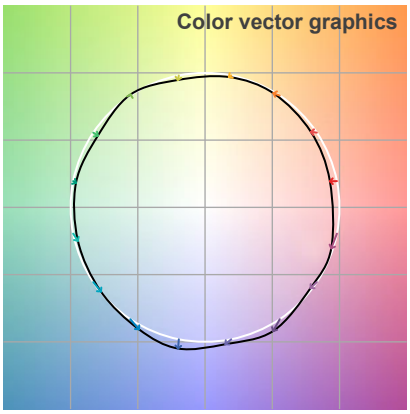
Rg 98,6

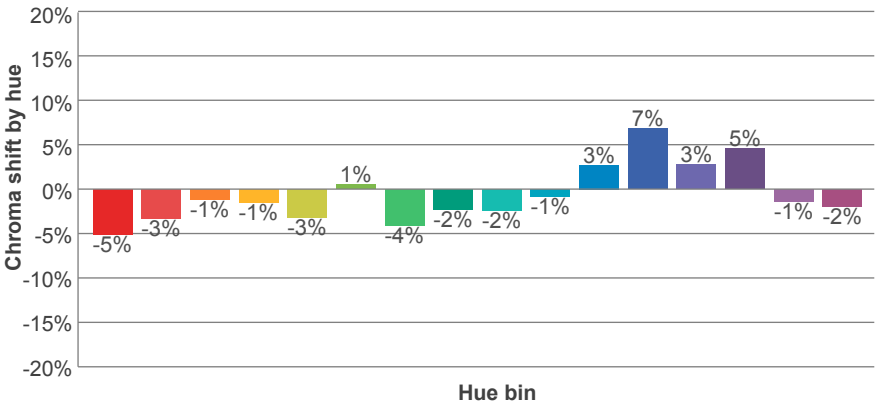
Gammut index Rg

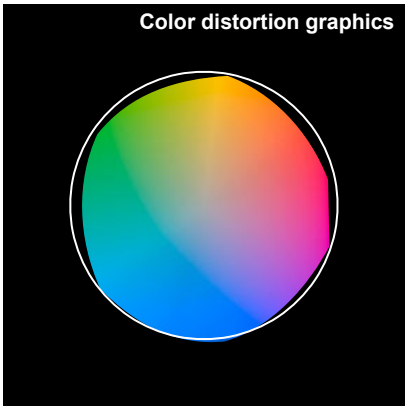
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	90	-5%	1%
2	91	-3%	3%
3	90	-1%	5%
4	94	-1%	2%
5	92	-3%	1%
6	96	1%	-1%
7	92	-4%	0%
8	96	-2%	1%
9	91	-2%	6%
10	85	-1%	9%
11	86	3%	9%
12	89	7%	1%
13	92	3%	-5%
14	87	5%	-9%
15	88	-1%	-6%
16	85	-2%	-12%

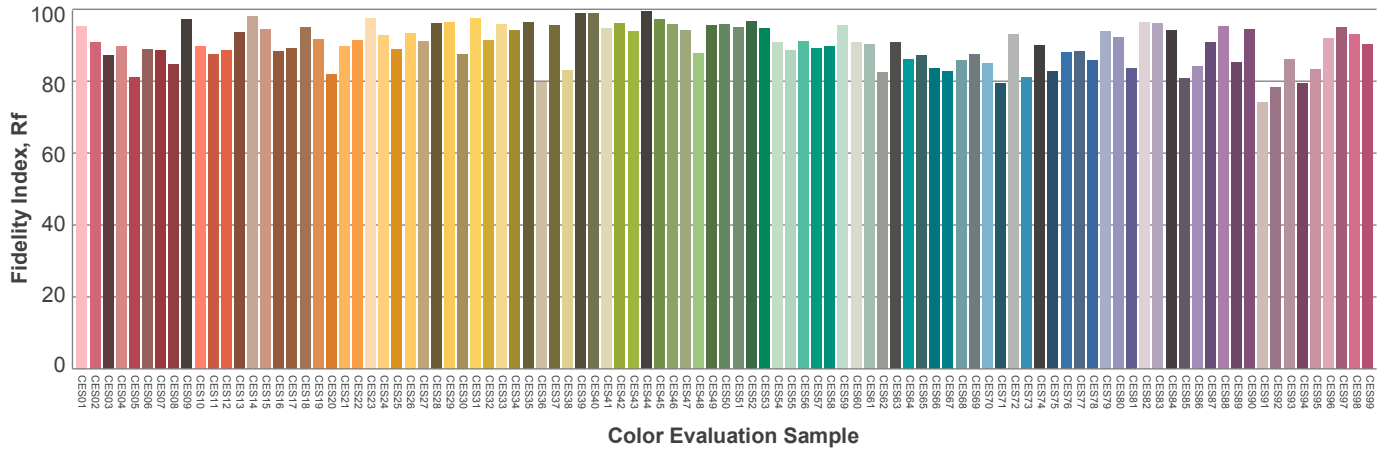




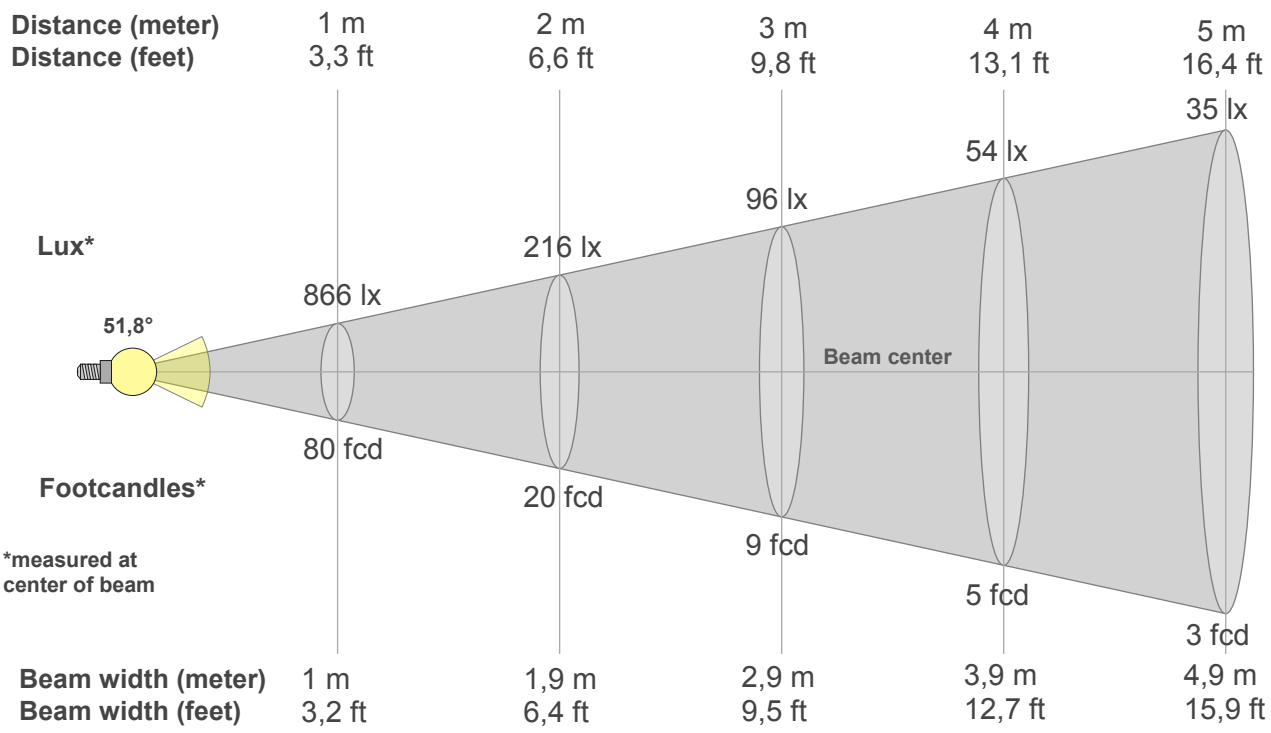








Beam details



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
866lx	216lx	96lx	54lx	35lx	24lx	18lx	14lx	11lx	9lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx
80,5fcd	20,1fcd	8,9fcd	5fcd	3,2fcd	2,2fcd	1,6fcd	1,3fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,5fcd	0,4fcd	0,4fcd	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°
866	861	844	813	767	711	651	584	502	393	266	155	81	48	35	27	22	21	25	33
100%	99%	97%	94%	89%	82%	75%	67%	58%	45%	31%	18%	9%	6%	4%	3%	3%	2%	3%	4%

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°
866	869	872	876	881	890	899	912	928	946	969	997	1030	1071	1120	1179	1247	1318	1373	1388
100%	100%	101%	101%	102%	103%	104%	105%	107%	109%	112%	115%	119%	124%	129%	136%	144%	152%	159%	160%

Intensities in 180° c-plane

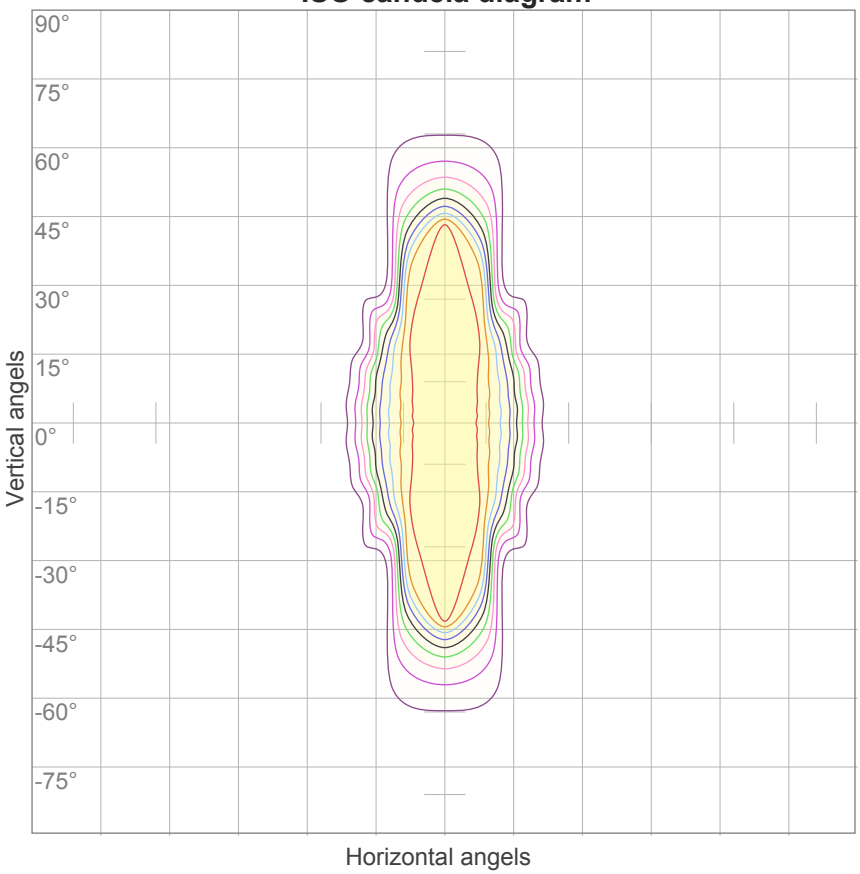
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
866	861	844	813	767	711	651	584	502	393	266	155	81	48	35	27	22	21	25	33
100%	99%	97%	94%	89%	82%	75%	67%	58%	45%	31%	18%	9%	6%	4%	3%	3%	2%	3%	4%

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°
866	869	872	876	881	890	899	912	928	946	969	997	1030	1071	1120	1179	1247	1318	1373	1388
100%	100%	101%	101%	102%	103%	104%	105%	107%	109%	112%	115%	119%	124%	129%	136%	144%	152%	159%	160%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,8°	**67,5°**	**162,1°**	**89,2%**	**74,1%**

ISO candela diagram



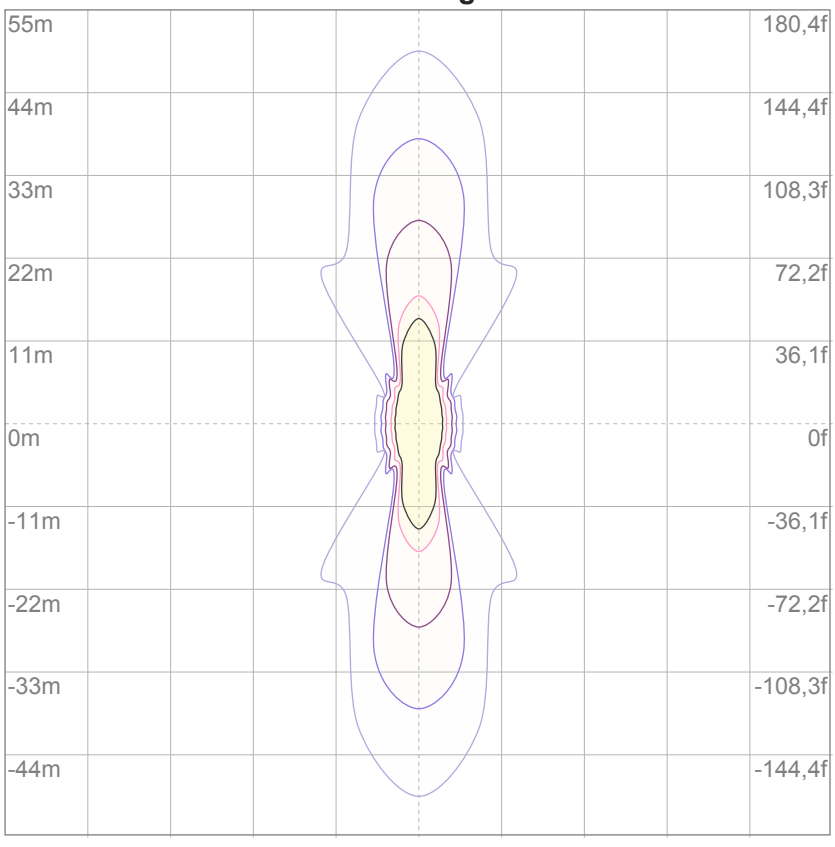
10%	87 cd
20%	173 cd
30%	260 cd
40%	346 cd
50%	433 cd
60%	520 cd
70%	606 cd
80%	693 cd
90%	779 cd

Conditions:

Number of c-planes: 16

Candela at center: 866 cd

ISO lux diagram



3%	0,260 lx
5%	0,433 lx
10%	0,866 lx
30%	2,60 lx
50%	4,33 lx

Conditions:

Number of c-planes: 16

Lux at center: 8,66 lx

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

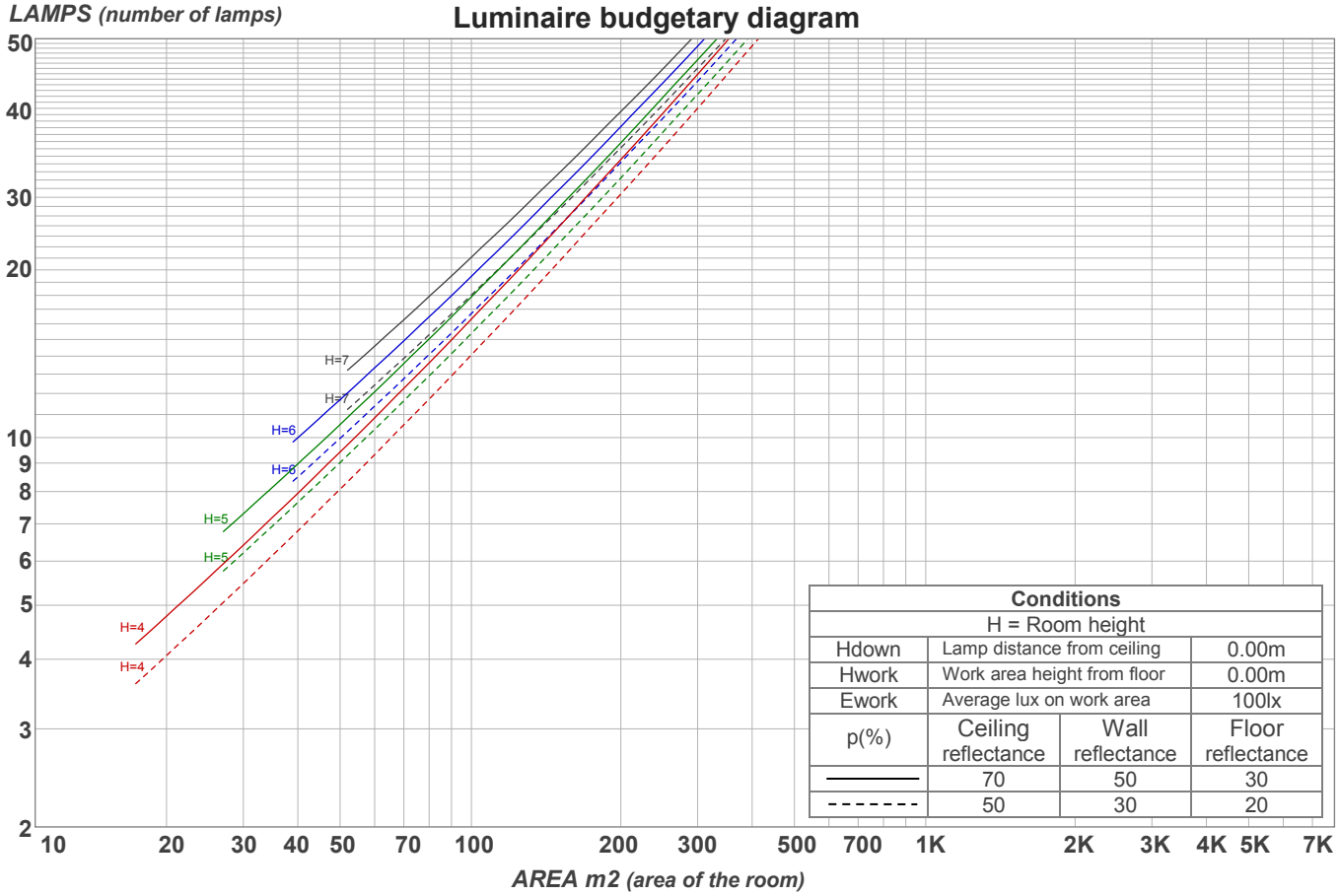
Glare Evaluation According to UGR

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	12,9	13,9	13,1	14,1	14,3	25,7	26,7	25,9	26,9	27,1
	3H	14,2	15,2	14,6	15,5	15,7	26,0	27,0	26,4	27,3	27,5
	4H	15,4	16,3	15,8	16,6	16,8	26,1	27,1	26,5	27,4	27,6
	6H	18,9	19,7	19,2	20,0	20,4	26,3	27,1	26,6	27,4	27,7
	8H	20,3	21,1	20,6	21,4	21,8	26,2	27,1	26,6	27,4	27,8
	12H	20,5	21,3	20,9	21,6	22,1	26,2	27,0	26,6	27,3	27,8
4H	2H	13,4	14,4	13,8	14,6	14,9	25,4	26,4	25,8	26,6	26,9
	3H	15,0	15,8	15,4	16,2	16,6	25,9	26,7	26,2	27,0	27,4
	4H	16,3	17,1	16,8	17,5	18,0	25,9	26,7	26,4	27,1	27,6
	6H	20,1	20,9	20,6	21,2	21,6	26,0	26,7	26,5	27,1	27,4
	8H	21,7	22,4	22,2	22,7	23,1	26,0	26,7	26,5	27,0	27,4
	12H	22,0	22,6	22,5	23,0	23,5	26,0	26,6	26,5	27,0	27,4
8H	4H	16,7	17,3	17,2	17,7	18,1	25,8	26,5	26,3	26,9	27,2
	6H	20,8	21,3	21,3	21,8	22,3	26,0	26,4	26,5	26,9	27,4
	8H	22,7	23,1	23,2	23,7	24,3	26,0	26,4	26,5	27,0	27,6
	12H	23,2	23,6	23,8	24,1	24,7	26,0	26,4	26,6	26,9	27,5
12H	4H	16,7	17,2	17,2	17,7	18,1	25,8	26,4	26,3	26,8	27,2
	6H	21,0	21,4	21,5	21,9	22,5	26,0	26,4	26,5	26,9	27,6
	8H	22,9	23,2	23,5	23,7	24,4	26,0	26,4	26,6	26,9	27,5
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					2,6 / -3,5				
S = 1.5H		0,1 / -0,1					4,7 / -5,2				
S = 2.0H		0,2 / -0,2					6,5 / -6,2				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 901 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	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	98	100	98	95	97	94	93	93	91	90	88
2	103	97	91	86	101	95	90	85	91	87	84	88	85	82	85	82	80	78
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	90	80	73	68	88	79	73	68	77	71	67	75	70	66	73	69	65	63
5	85	74	67	61	83	73	66	61	71	65	60	69	64	60	68	63	59	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53
7	75	64	56	51	73	63	56	51	62	55	51	60	55	51	59	54	50	49
8	71	60	52	47	69	59	52	47	58	52	47	57	51	47	55	50	47	45
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39

Luminaire budgetary diagram

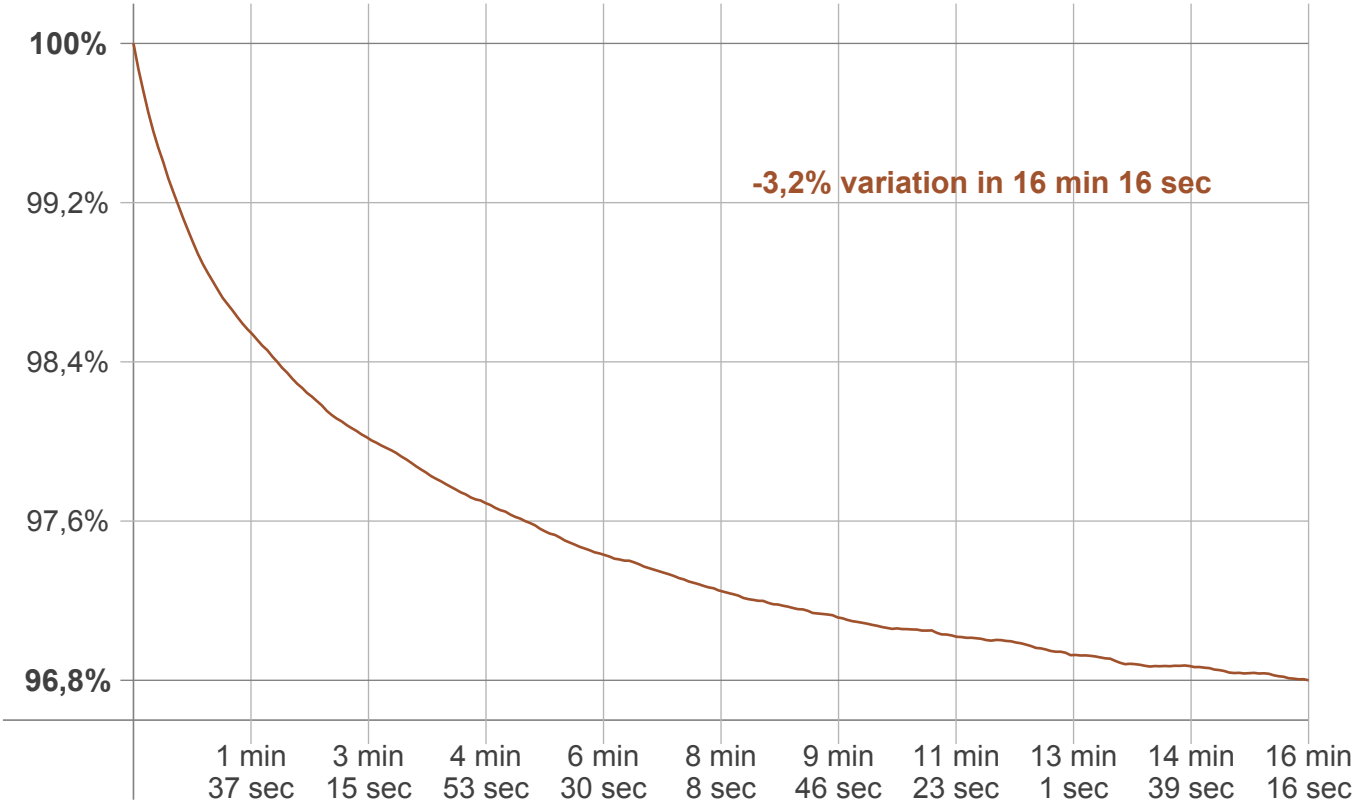


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
79,7 lm	196 lm	184 lm	142 lm	120 lm	81,5 lm	44,7 lm	28,4 lm	23,7 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,027 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:	**16 min 16 sec**
Warmup variation	**-3,2%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
3116 K	**-3 K**	**3113 K**

Output change

Output start	Output change	Output end
927 lm	**-26 lm**	**901 lm**