Light efficiency:

80 Lumen/Watt

Light quality:

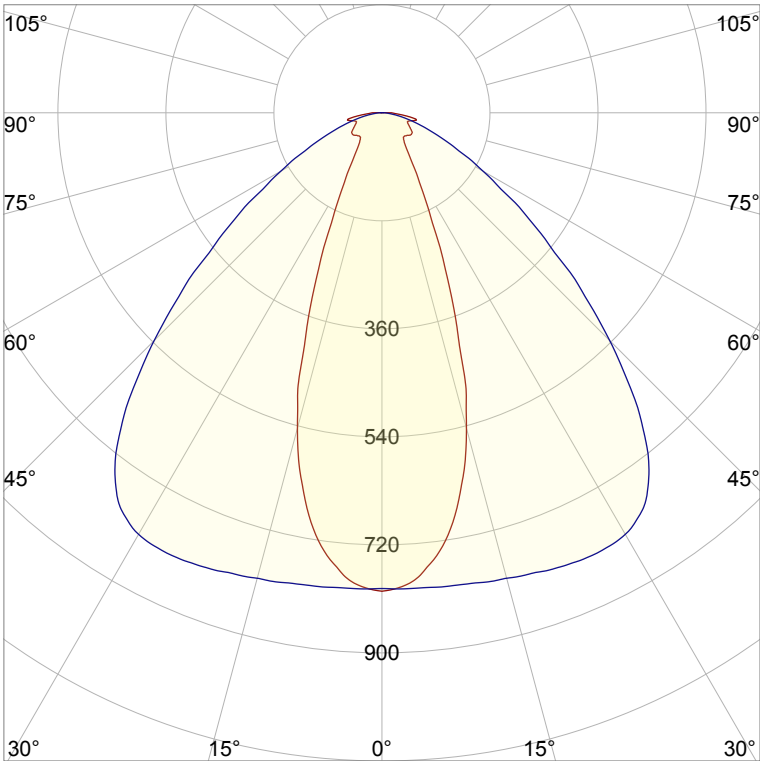
CRI: 82,0

Color temperature:

2232 K

Output: 960 lm
Peak: 817 cd

Power: 12,0 W
PF: 1,0



Product name:
Pegasus-3-Gold-0508-822-L3F

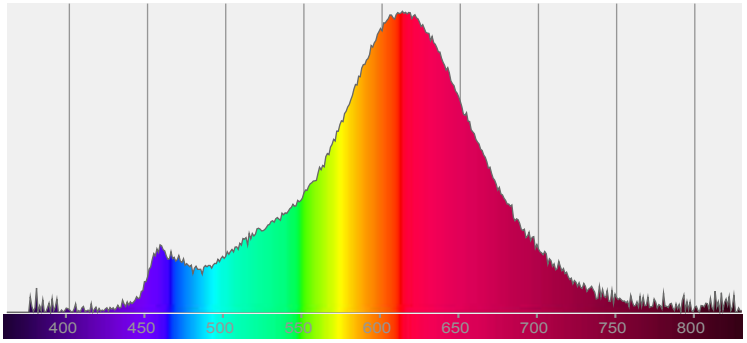
Item number:
FLNP-L-16A-0508-822-L3F

Date and time:
17.03.2021 09:27:18

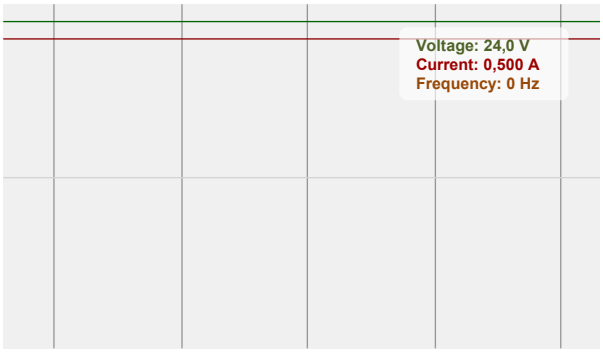
Description:
Rank: M1A4T
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Grad K
CRI +/-0,7
Angular Resolution 1 Grad step
Last Calibration 20-05-2020
Pruefer: Peter Ulrich
Pruefort: Lichtlabor
Gaustrasse13-15
55411 Bingen am Rhein

CIE 1931
x: 0,500
y: 0,412

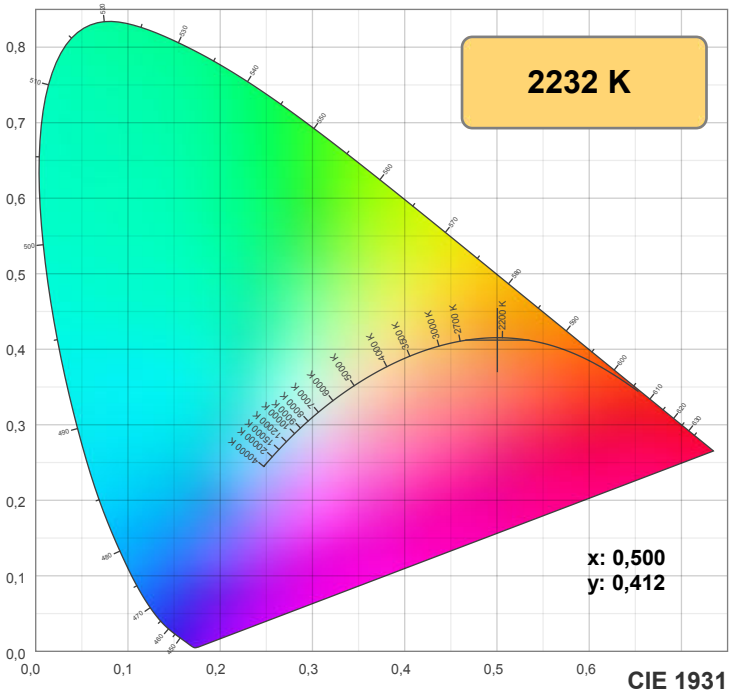
Spectra



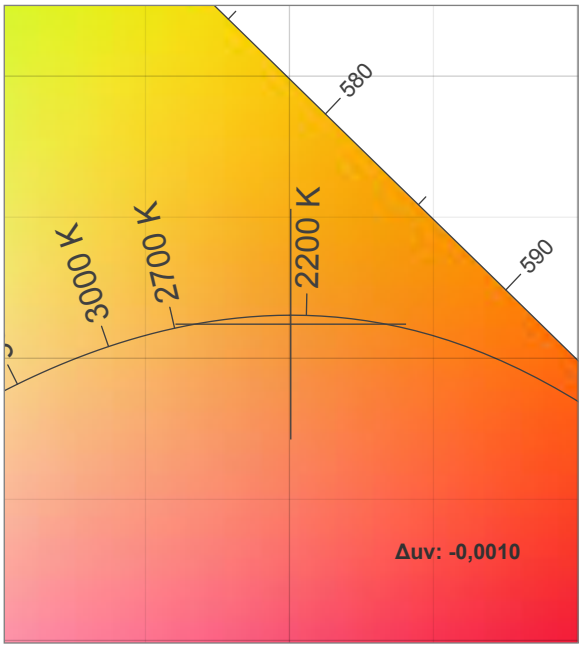
Power



Color details

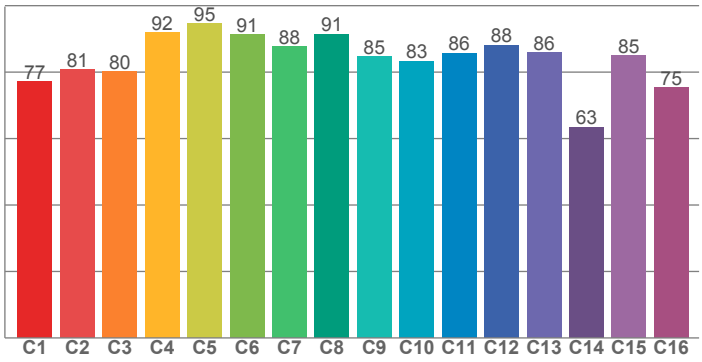


CIE 1931

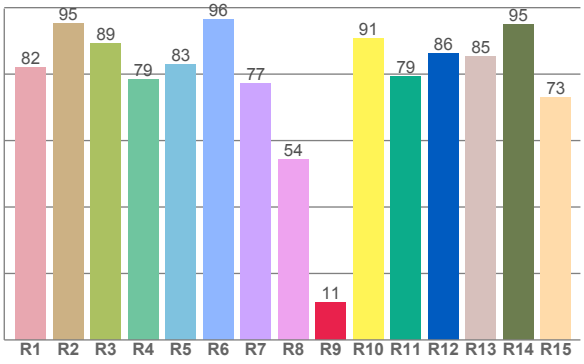


CIE 1931 ZOOM

TM30: 84,6



CRI: 82,0 (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
81,9	95,2	89,2	78,5	82,9	96,4	77,3	54,4	11,3	90,7	79,2	86,3	85,3	94,8	72,9

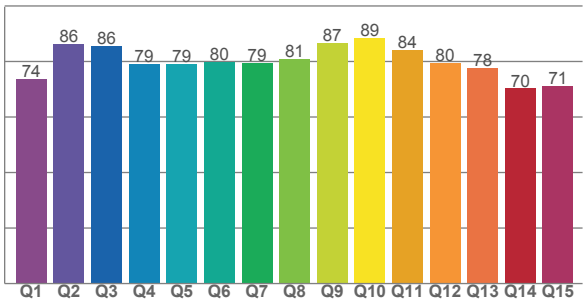
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,2	80,8	80,3	91,9	94,5	91,4	87,6	91,4	84,8	83,4	85,7	88,1	86,0	63,5	84,9	75,3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
73,7	86,3	85,6	79,2	79,0	79,7	79,4	81,0	86,6	88,6	84,1	79,5	77,7	70,3	71,1

CQS: 79,0



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
2232 K	82,0	11,3	84,6	94,1	79,0	0,500	0,412	0,288	0,356	-0,0010

TM30 details

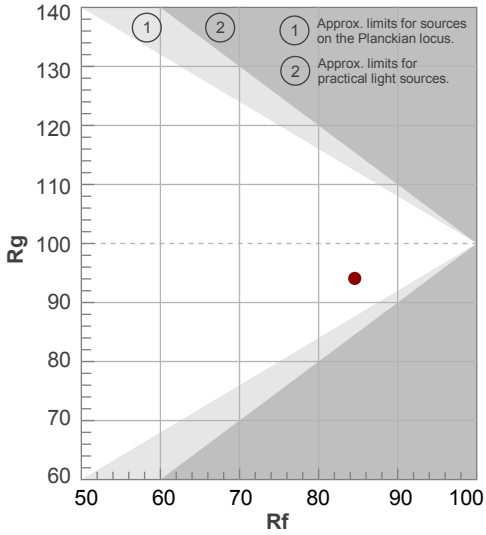
Rf 84,6

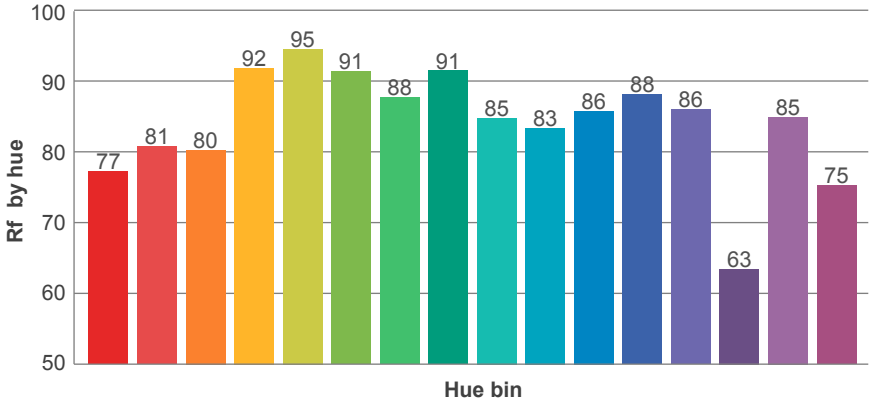
Fidelity index Rf

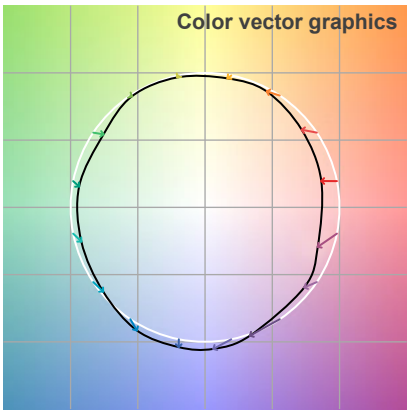
Rg 94,1

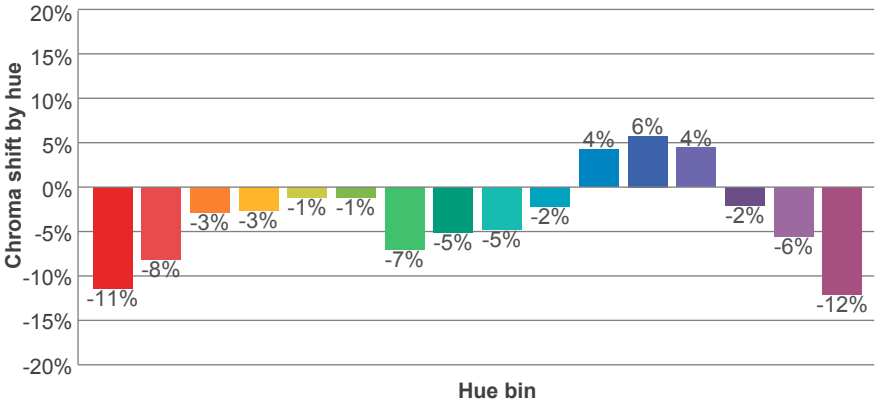
Gammut index Rg

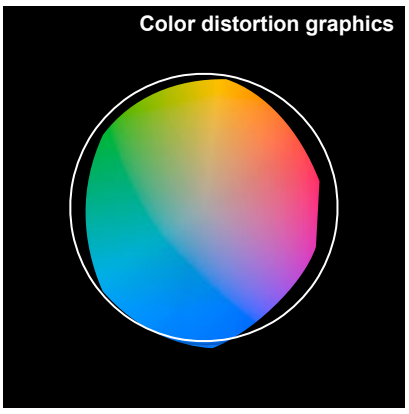
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	77	-11%	2%
2	81	-8%	8%
3	80	-3%	10%
4	92	-3%	2%
5	95	-1%	1%
6	91	-1%	-1%
7	88	-7%	-3%
8	91	-5%	3%
9	85	-5%	7%
10	83	-2%	10%
11	86	4%	9%
12	88	6%	1%
13	86	4%	-14%
14	63	-2%	-25%
15	85	-6%	-8%
16	75	-12%	-12%

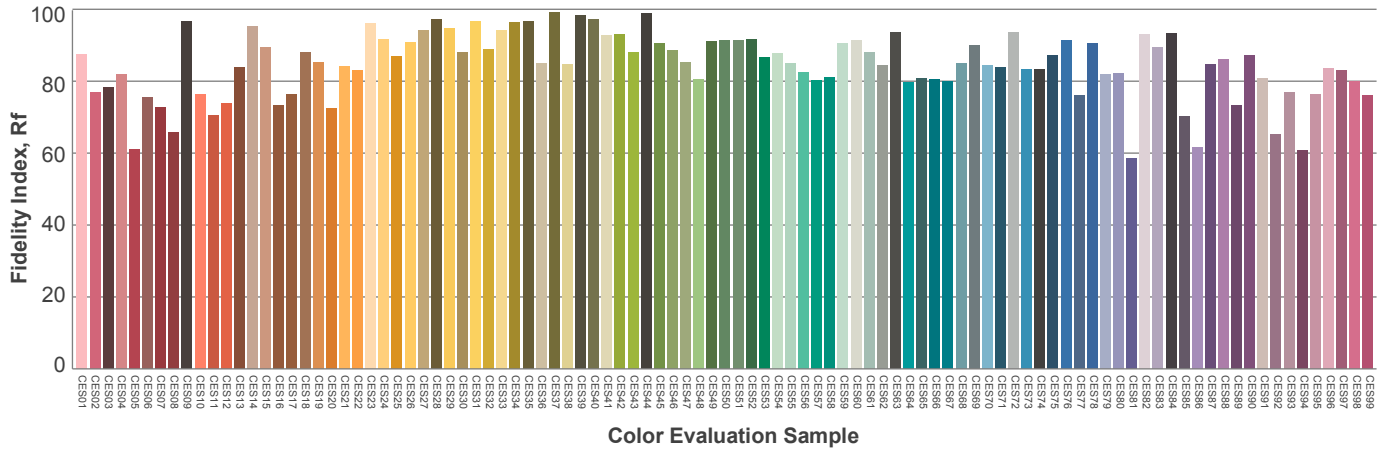




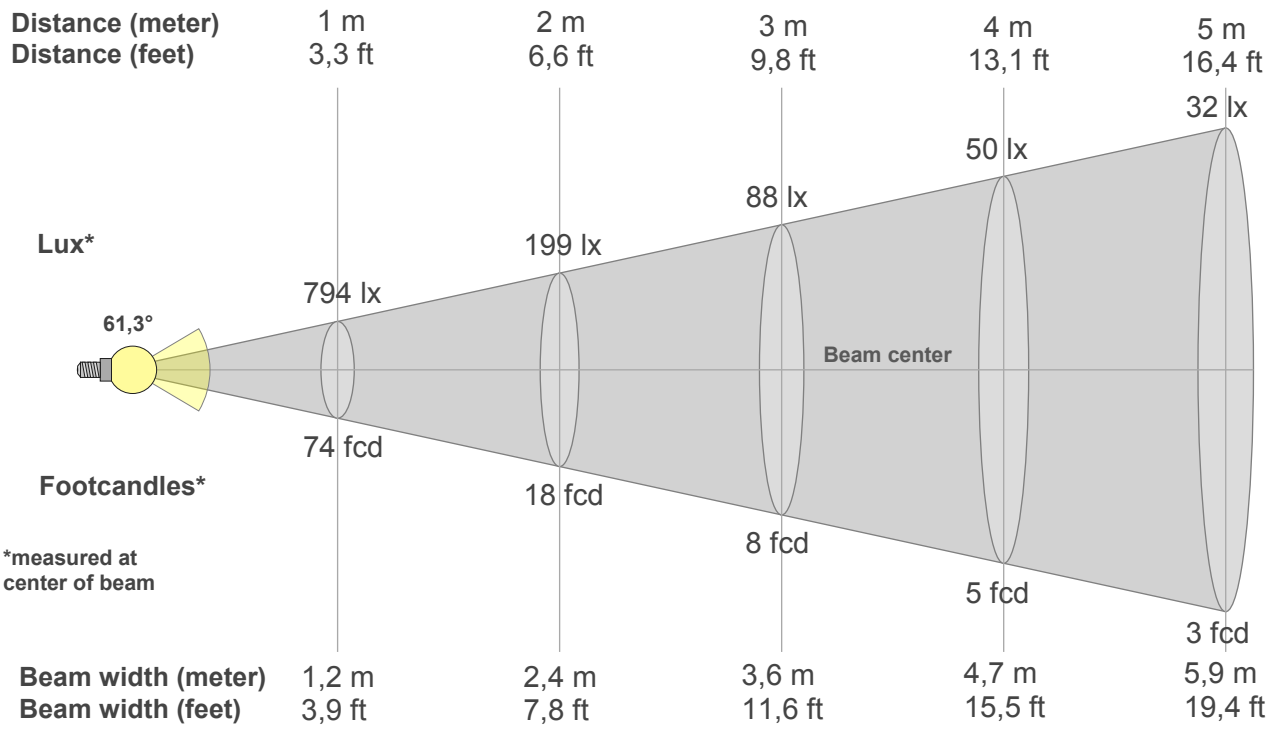








Beam details



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
794lx	199lx	88lx	50lx	32lx	22lx	16lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx
73,8fcd	18,4fcd	8,2fcd	4,6fcd	3fcd	2fcd	1,5fcd	1,2fcd	0,9fcd	0,7fcd	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°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
794	770	688	544	353	194	112	70	56	54	58	60	56	49	45	51	54	28	8	8
100%	97%	87%	69%	44%	24%	14%	9%	7%	7%	7%	8%	7%	6%	6%	6%	7%	4%	1%	1%

Intensities in 90° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
794	794	798	803	811	816	811	771	673	536	402	286	194	129	82	50	25	10	1	1
100%	100%	100%	101%	102%	103%	102%	97%	85%	68%	51%	36%	24%	16%	10%	6%	3%	1%	0%	0%

Intensities in 180° c-plane

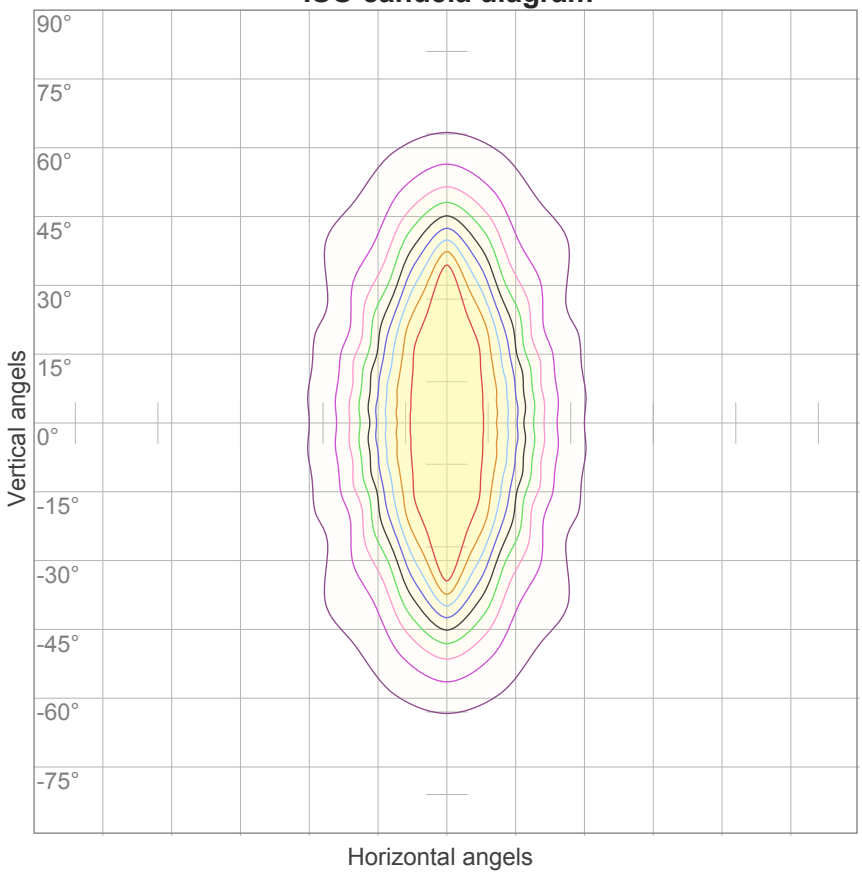
0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
794	770	688	544	353	194	112	70	56	54	58	60	56	49	45	51	54	28	8	8
100%	97%	87%	69%	44%	24%	14%	9%	7%	7%	7%	8%	7%	6%	6%	6%	7%	4%	1%	1%

Intensities in 270° c-plane

0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°
794	794	798	803	811	816	811	771	673	536	402	286	194	129	82	50	25	10	1	1
100%	100%	100%	101%	102%	103%	102%	97%	85%	68%	51%	36%	24%	16%	10%	6%	3%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
61,3°	**100,5°**	**170,3°**	**84,6%**	**70,4%**

ISO candela diagram



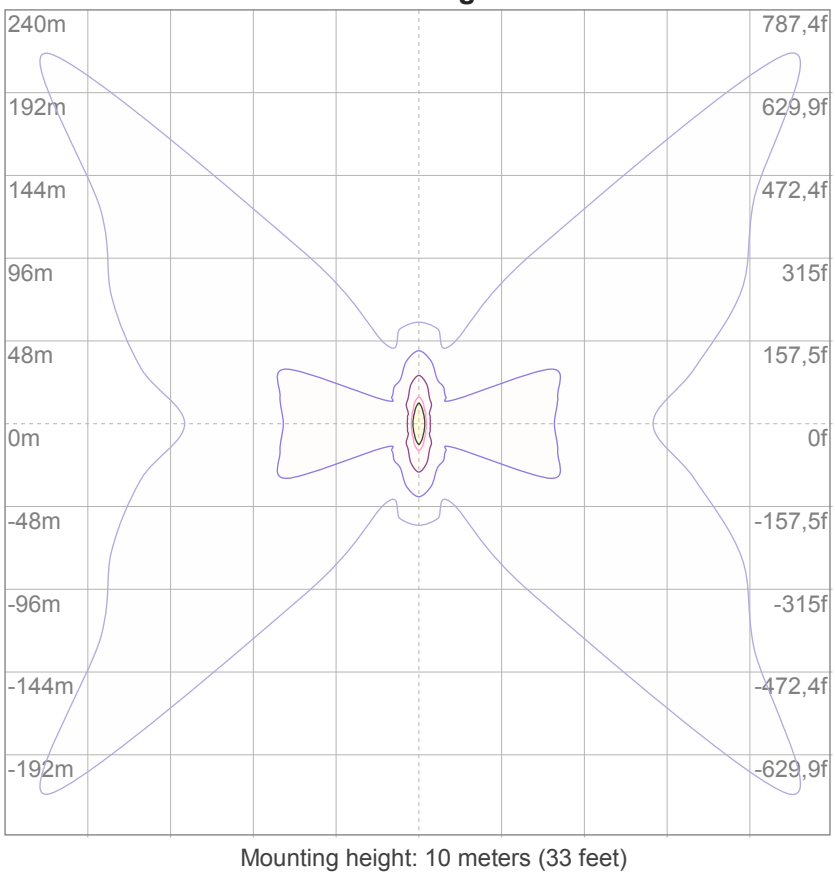
10%	79 cd
20%	159 cd
30%	238 cd
40%	318 cd
50%	397 cd
60%	477 cd
70%	556 cd
80%	635 cd
90%	715 cd

Conditions:

Number of c-planes: 16

Candela at center: 794 cd

ISO lux diagram



3%	0,238 lx
5%	0,397 lx
10%	0,794 lx
30%	2,38 lx
50%	3,97 lx

Conditions:

Number of c-planes: 16

Lux at center: 7,94 lx

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

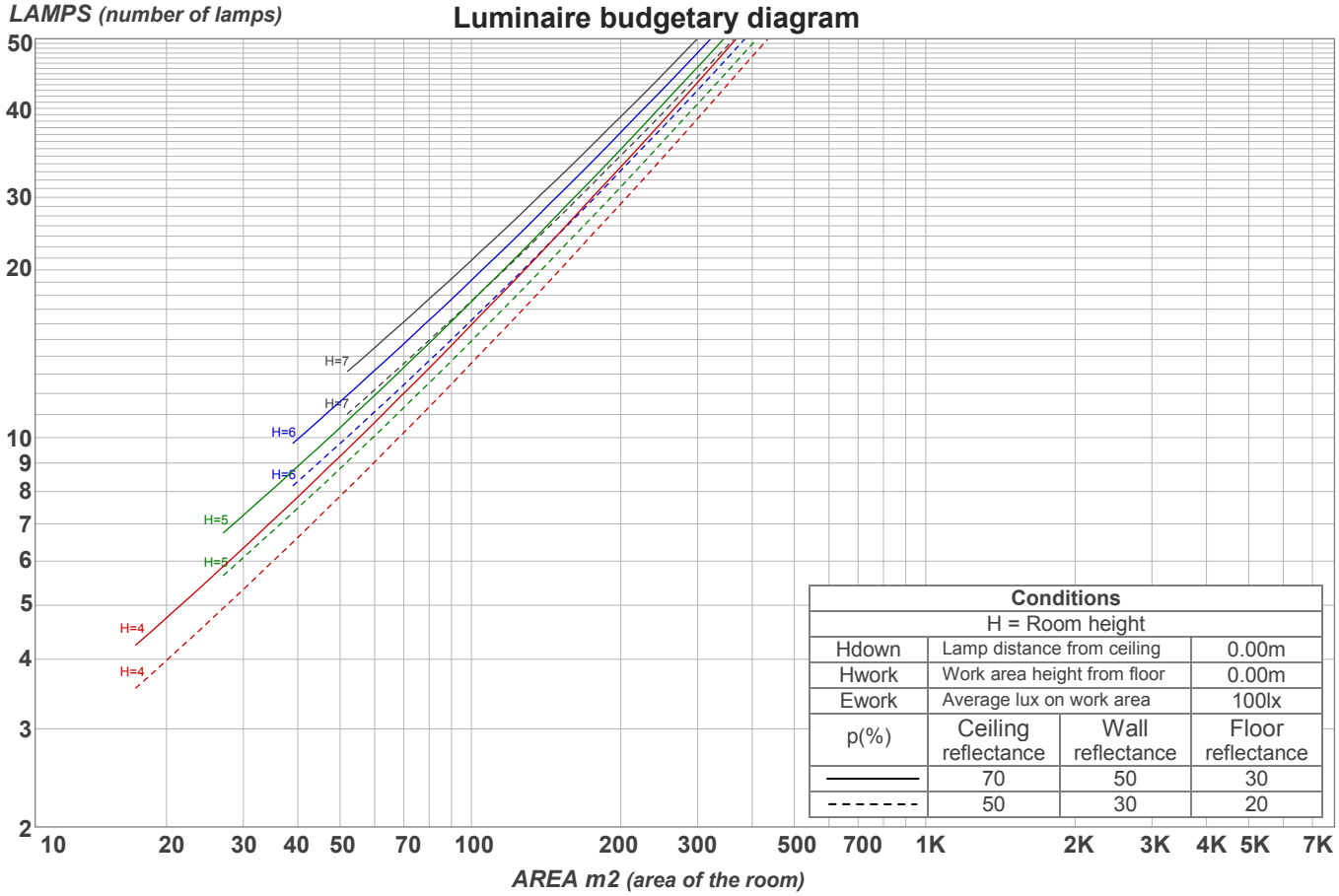
Glare Evaluation According to UGR

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	14,7	15,6	14,9	15,9	16,1	23,7	24,7	23,9	25,0	25,2
	3H	16,6	17,7	17,0	17,9	18,1	24,4	25,5	24,8	25,7	25,9
	4H	18,0	19,0	18,4	19,2	19,5	24,7	25,7	25,1	26,0	26,2
	6H	19,9	20,7	20,2	21,0	21,4	25,0	25,9	25,3	26,1	26,5
	8H	20,4	21,3	20,8	21,6	22,0	25,0	25,9	25,4	26,2	26,6
	12H	20,8	21,6	21,1	21,9	22,4	25,0	25,9	25,4	26,2	26,6
4H	2H	15,5	16,5	15,9	16,7	17,0	23,5	24,5	23,9	24,7	25,0
	3H	17,7	18,5	18,0	18,9	19,3	24,4	25,2	24,7	25,5	26,0
	4H	19,1	19,9	19,6	20,3	20,8	24,7	25,4	25,1	25,9	26,4
	6H	21,1	21,9	21,6	22,2	22,6	25,0	25,7	25,5	26,1	26,4
	8H	21,8	22,5	22,3	22,9	23,3	25,1	25,7	25,6	26,1	26,5
	12H	22,2	22,8	22,7	23,2	23,7	25,1	25,7	25,6	26,1	26,6
8H	4H	19,5	20,2	20,1	20,6	21,0	24,7	25,3	25,2	25,7	26,1
	6H	21,8	22,3	22,3	22,8	23,3	25,0	25,6	25,5	26,0	26,6
	8H	22,7	23,2	23,2	23,7	24,3	25,2	25,7	25,7	26,2	26,8
	12H	23,3	23,6	23,8	24,1	24,7	25,3	25,7	25,9	26,2	26,8
12H	4H	19,6	20,2	20,1	20,6	21,1	24,6	25,2	25,1	25,6	26,1
	6H	22,0	22,4	22,5	22,9	23,6	25,1	25,6	25,6	26,1	26,7
	8H	22,9	23,3	23,5	23,8	24,4	25,3	25,7	25,9	26,2	26,8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,1 / -0,1					1,2 / -1,1				
S = 1.5H		0,1 / -0,1					2,6 / -2,2				
S = 2.0H		0,2 / -0,2					3,9 / -3,1				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 960 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	115	115	115	115	110	110	110	105	105	105	100	100	100	98
1	110	106	102	99	107	103	100	97	99	96	93	94	92	90	90	89	87	85
2	102	95	89	84	99	93	88	83	89	85	81	86	82	79	82	79	77	75
3	95	86	79	74	92	84	78	73	81	76	71	78	74	70	75	72	68	66
4	88	78	71	65	86	77	70	65	74	68	64	72	67	63	70	65	62	60
5	83	72	64	59	81	71	64	58	68	62	58	66	61	57	64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52	62	56	52	60	55	51	49
7	73	61	54	49	71	61	54	49	59	53	48	57	52	48	56	51	47	45
8	69	57	50	45	67	57	50	45	55	49	44	54	48	44	53	47	44	42
9	65	54	46	42	64	53	46	41	52	45	41	51	45	41	49	44	41	39
10	62	50	43	39	60	50	43	39	49	43	38	48	42	38	47	42	38	36

Luminaire budgetary diagram

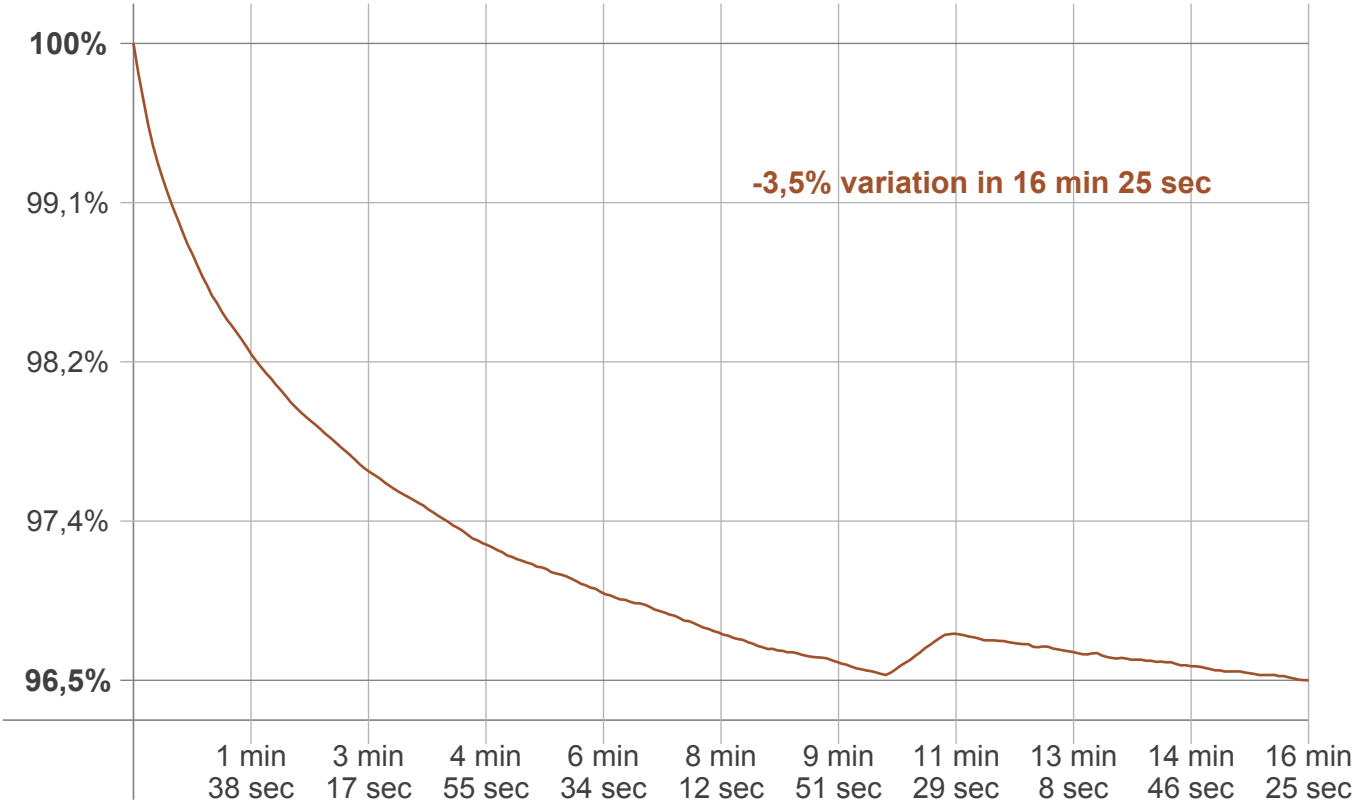


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
73,2 lm	183 lm	201 lm	157 lm	115 lm	83,0 lm	58,4 lm	42,0 lm	26,5 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5,58 lm	4,43 lm	2,29 lm	2,07 lm	1,33 lm	0,712 lm	0,524 lm	0,321 lm	4,24 lm

Warmup curve



Warmup result

Warmup time:	**16 min 25 sec**
Warmup variation	**-3,5%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2232 K	0 K	2232 K

Output change

Output start	Output change	Output end
991 lm	-31 lm	960 lm