Light efficiency:

78 Lumen/Watt

Light quality:

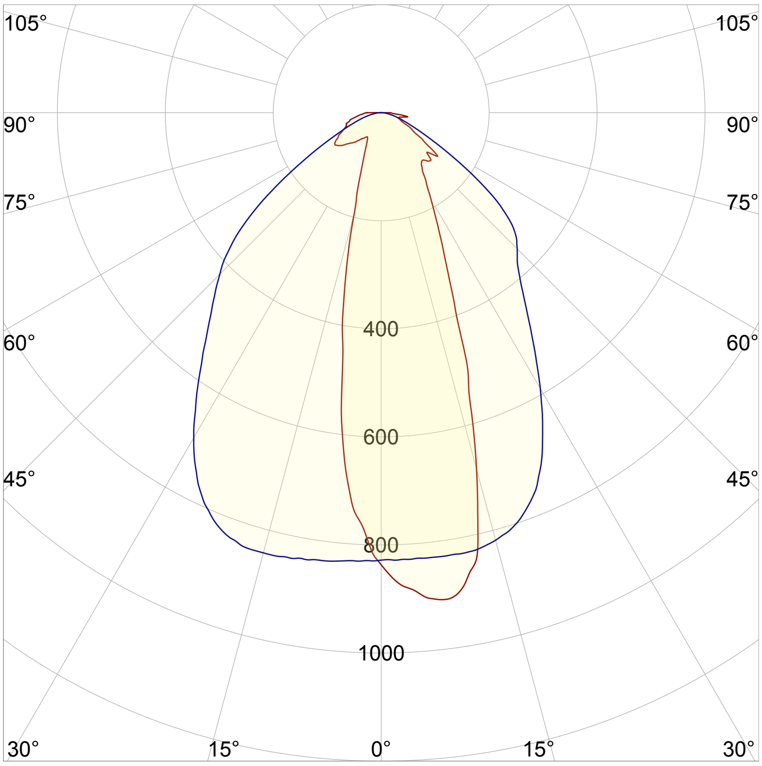
CRI: 82,1

Color temperature:

2239 K

Output: 933 lm
Peak: 975 cd

Power: 12,0 W
PF: 1,0



Product name:
Pegasus-3-Gold-0508-822-LAF-2

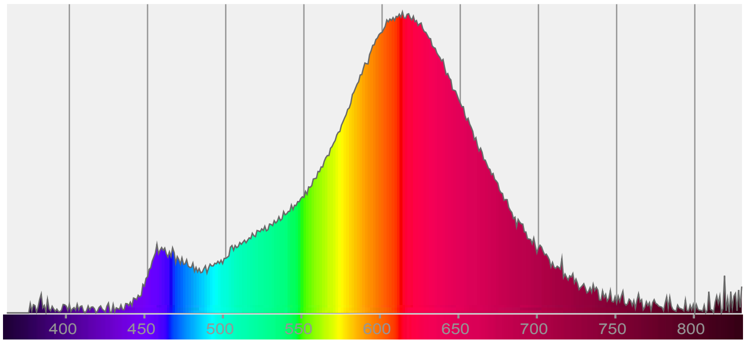
Item number:
FLNP-L-16A-0508-822-LAF-2

Date and time:
17.03.2021 11:01:40

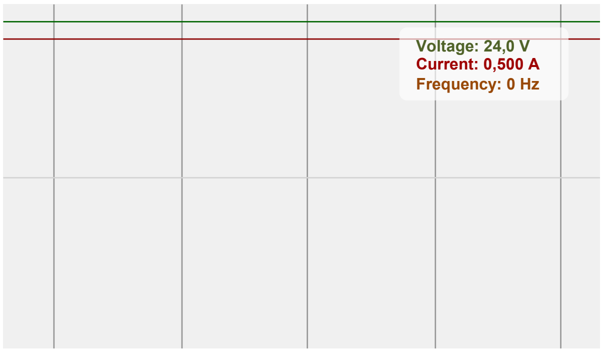
Description:
Rank: M1A4T
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Grad K
CRI +/-0,7
Angular Resolution 1 Grad step
Last Calibration 20-05-2020
Pruefer: Peter Ulrich
Pruefort: Lichtlabor
Gaustrasse13-15
55411 Bingen am Rhein

CIE 1931
x: 0,499
y: 0,411

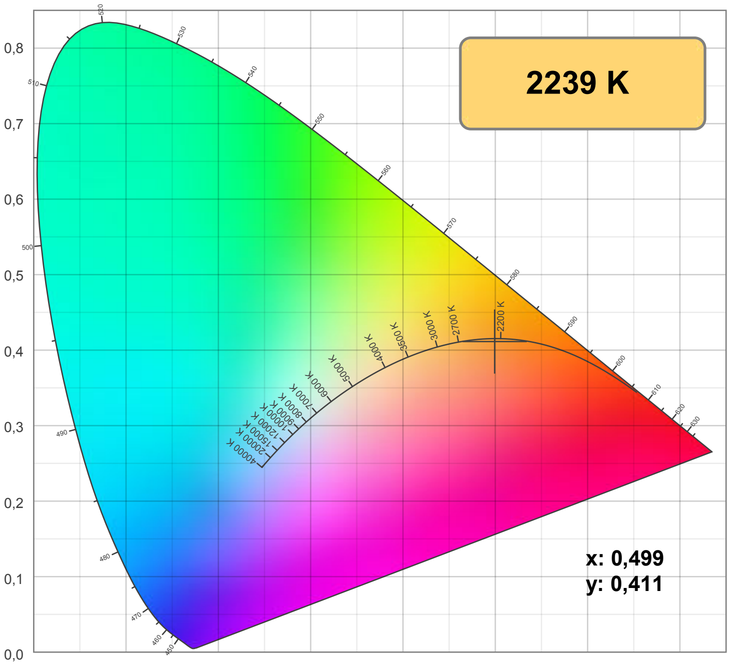
Spectra



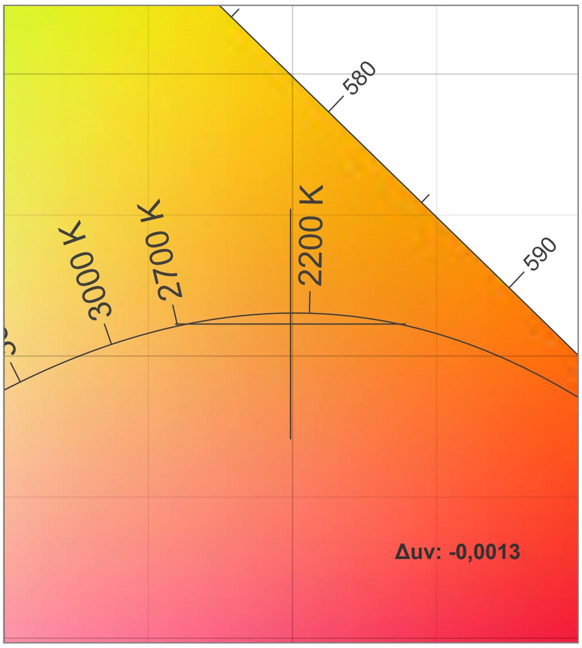
Power



Color details

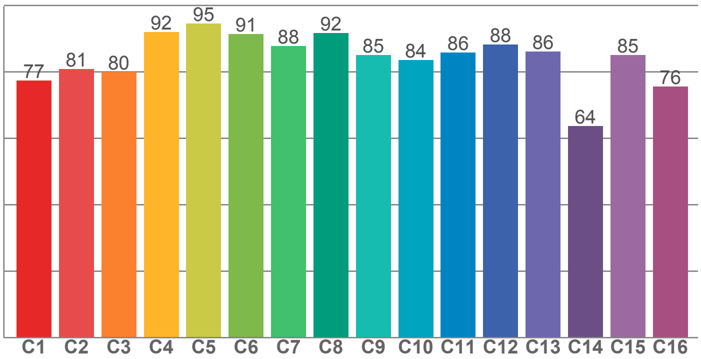


CIE 1931

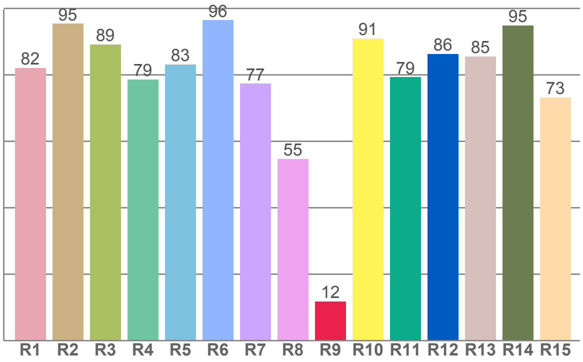


CIE 1931 ZOOM

TM30: 84,7



CRI: 82,1 (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
82,1	95,4	89,2	78,6	83,1	96,4	77,4	54,7	11,8	90,9	79,3	86,3	85,5	94,8	73,2

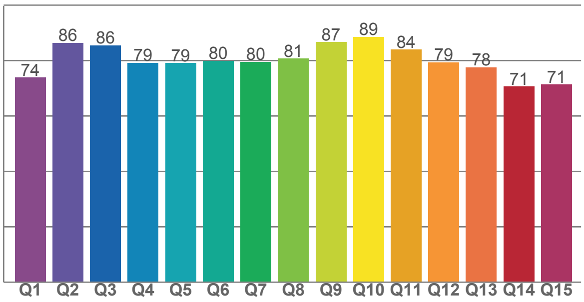
TM30 C values, 16 binned values out of total of 99 C values

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

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
73,8	86,4	85,5	79,2	79,1	79,9	79,5	80,7	86,7	88,5	83,9	79,4	77,6	70,6	71,3

CQS: 79,1



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 diviation from black body
CCT	**CRI**	**CRI R9**	**TM30 Rf**	**TM30 Rg**	**CQS**	**x**	**y**	**u**	**v**	**Δuv**
2239 K	**82,1**	**11,8**	**84,7**	**94,3**	**79,1**	**0,499**	**0,411**	**0,288**	**0,356**	**-0,0013**

TM30 details

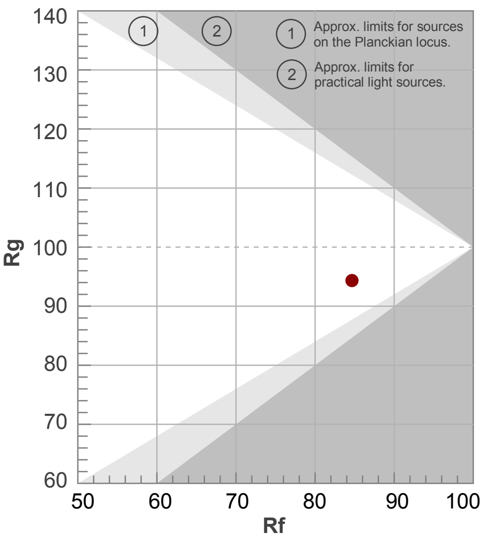
Rf 84,7

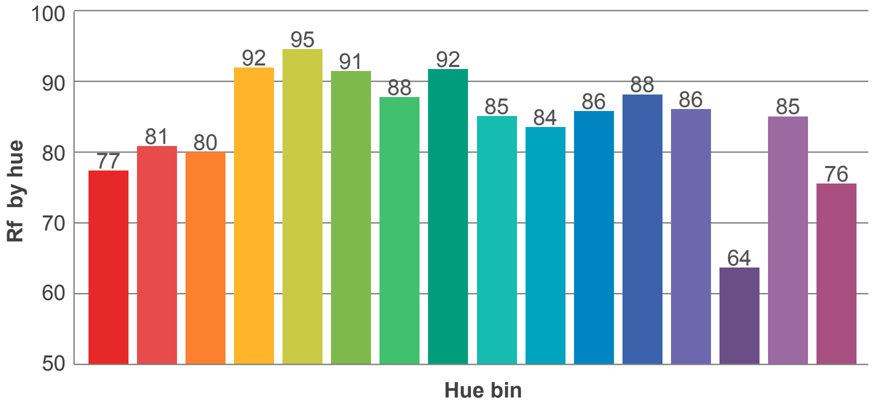
Fidelity index Rf

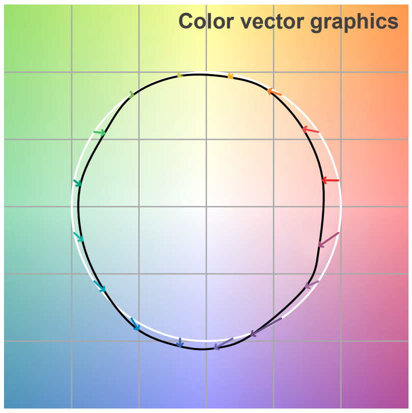
Rg 94,3

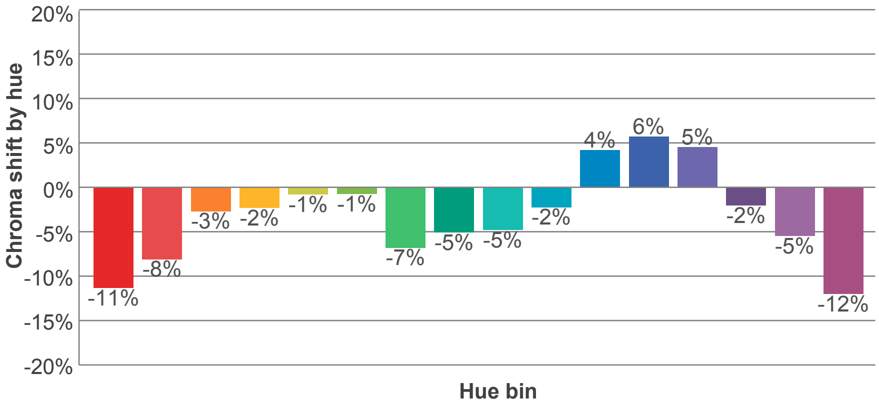
Gammut index Rg

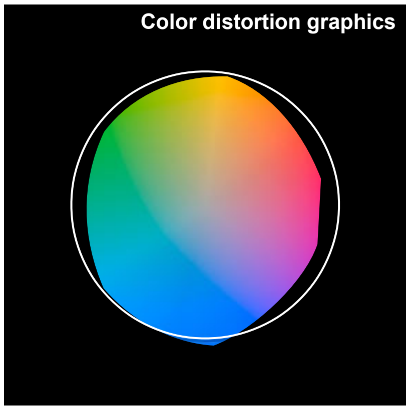
Hue Bin	R_f	Graphic shifts (%) Chroma	Hue
1	77	-11%	2%
2	81	-8%	8%
3	80	-3%	10%
4	92	-2%	3%
5	95	-1%	1%
6	91	-1%	-1%
7	88	-7%	-3%
8	92	-5%	3%
9	85	-5%	7%
10	84	-2%	10%
11	86	4%	9%
12	88	6%	1%
13	86	5%	-14%
14	64	-2%	-25%
15	85	-5%	-9%
16	76	-12%	-12%

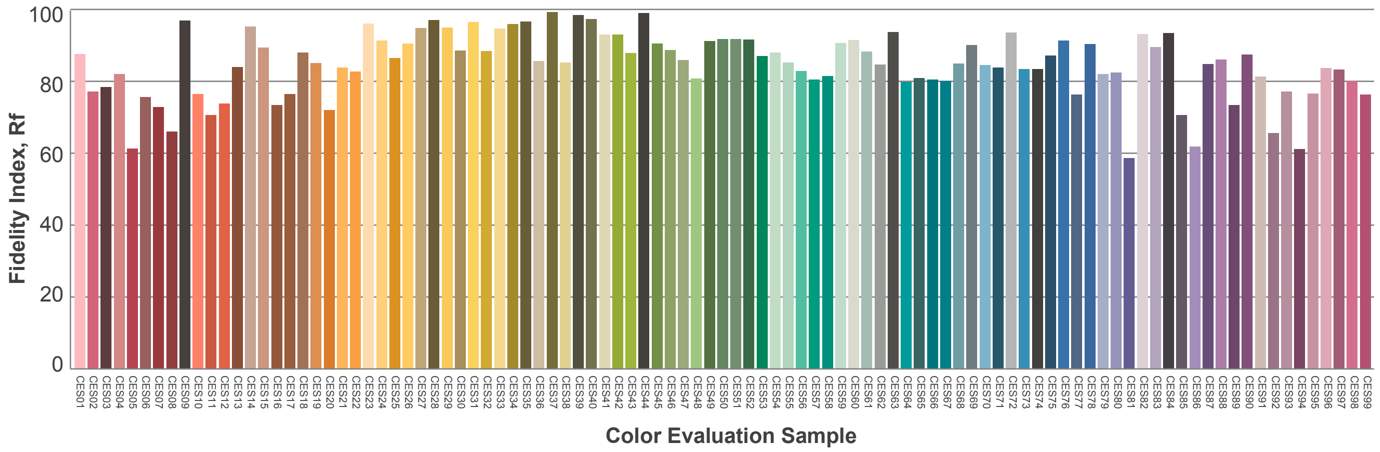




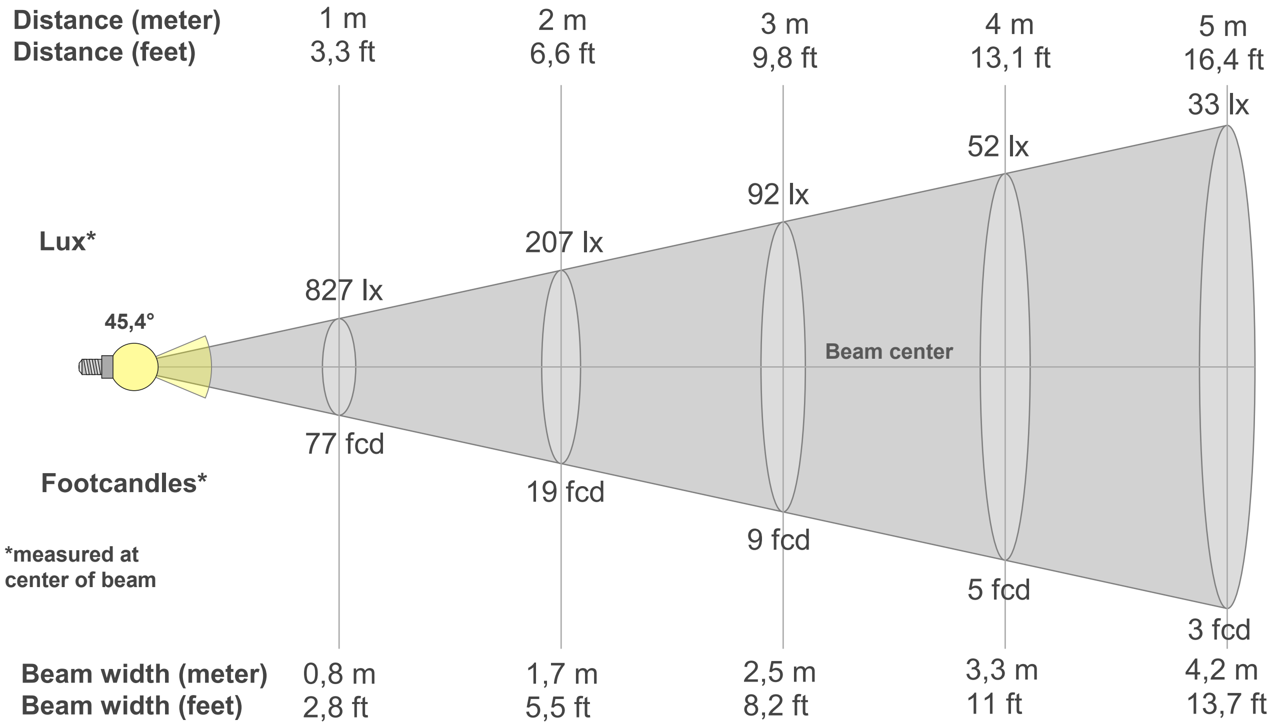








Beam details



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
827lx	207lx	92lx	52lx	33lx	23lx	17lx	13lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx	2lx
76,8fcd	19,2fcd	8,5fcd	4,8fcd	3,1fcd	2,1fcd	1,6fcd	1,2fcd	0,9fcd	0,8fcd	0,6fcd	0,5fcd	0,5fcd	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°
827	869	887	904	908	887	843	738	625	523	421	342	286	245	211	184	161	145	130	121
100%	105%	107%	109%	110%	107%	102%	89%	76%	63%	51%	41%	35%	30%	26%	22%	19%	17%	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°
827	828	828	828	829	829	828	823	814	802	783	758	724	682	636	589	543	500	461	428
100%	100%	100%	100%	100%	100%	100%	100%	98%	97%	95%	92%	88%	82%	77%	71%	66%	60%	56%	52%

Intensities in 180° c-plane

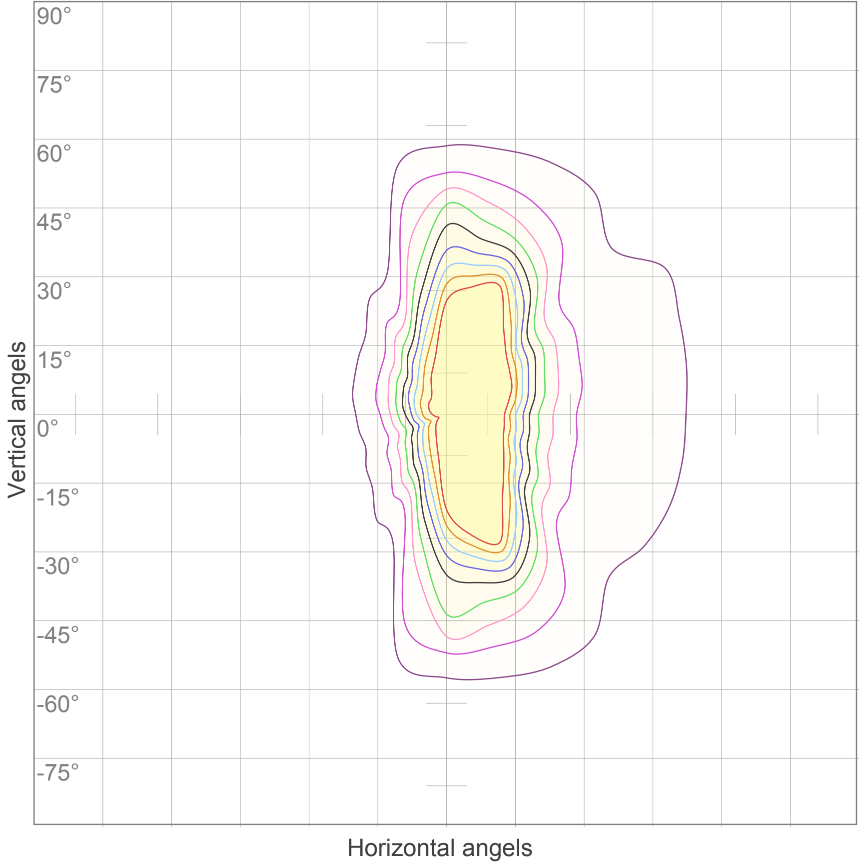
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
827	786	734	647	528	414	321	236	168	131	102	83	69	60	54	52	53	57	59	63
100%	95%	89%	78%	64%	50%	39%	29%	20%	16%	12%	10%	8%	7%	6%	6%	6%	7%	7%	8%

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°
827	829	831	834	836	838	841	843	843	841	833	818	797	770	735	694	649	607	564	526
100%	100%	101%	101%	101%	101%	102%	102%	102%	102%	101%	99%	96%	93%	89%	84%	79%	73%	68%	64%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
45,4°	**97,2°**	**172,8°**	**84,8%**	**67,9%**

ISO candela diagram



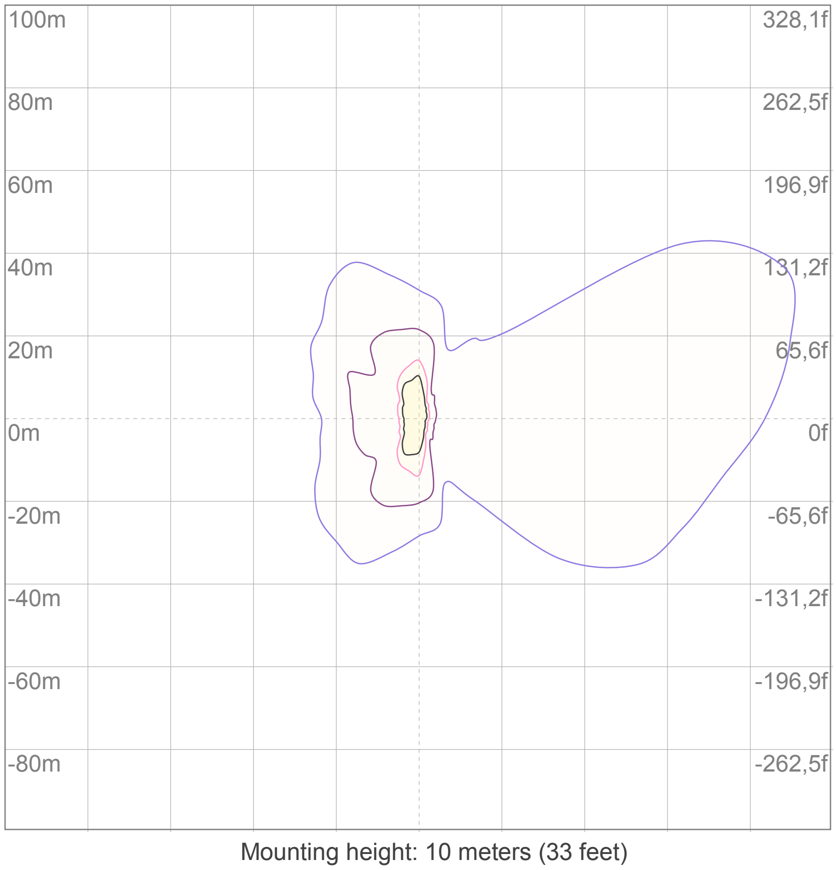
10%	83 cd
20%	165 cd
30%	248 cd
40%	331 cd
50%	413 cd
60%	496 cd
70%	579 cd
80%	661 cd
90%	744 cd

Conditions:

Number of c-planes: 16

Candela at center: 827 cd

ISO lux diagram



3%	0,248 lx
5%	0,413 lx
10%	0,827 lx
30%	2,48 lx
50%	4,13 lx

Conditions:

Number of c-planes: 16

Lux at center: 8,27 lx

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

UGR

Glare Evaluation According to UGR

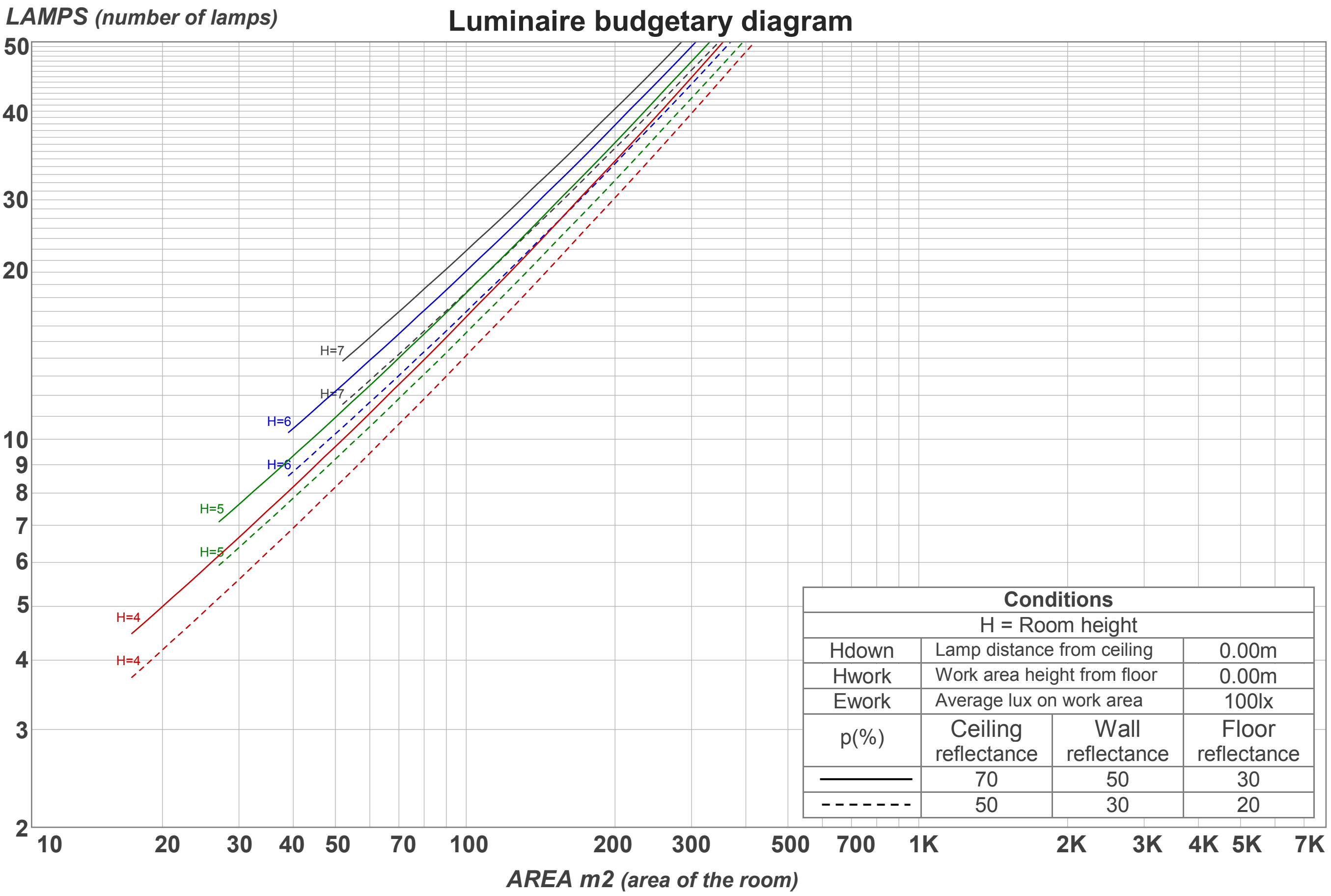
p Ceiling	70	70	50	50	30	70	70	50	50	30
p Walls	50	30	50	30	30	50	30	50	30	30
p Floor	20	20	20	20	20	20	20	20	20	20
Room size X Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	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 933 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	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	102	94	88	83	99	93	87	82	89	84	80	86	82	79	83	80	77	75
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66
4	88	77	70	64	86	76	69	63	74	68	63	72	66	62	69	65	61	59
5	82	71	63	57	80	70	62	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

Luminaire budgetary diagram



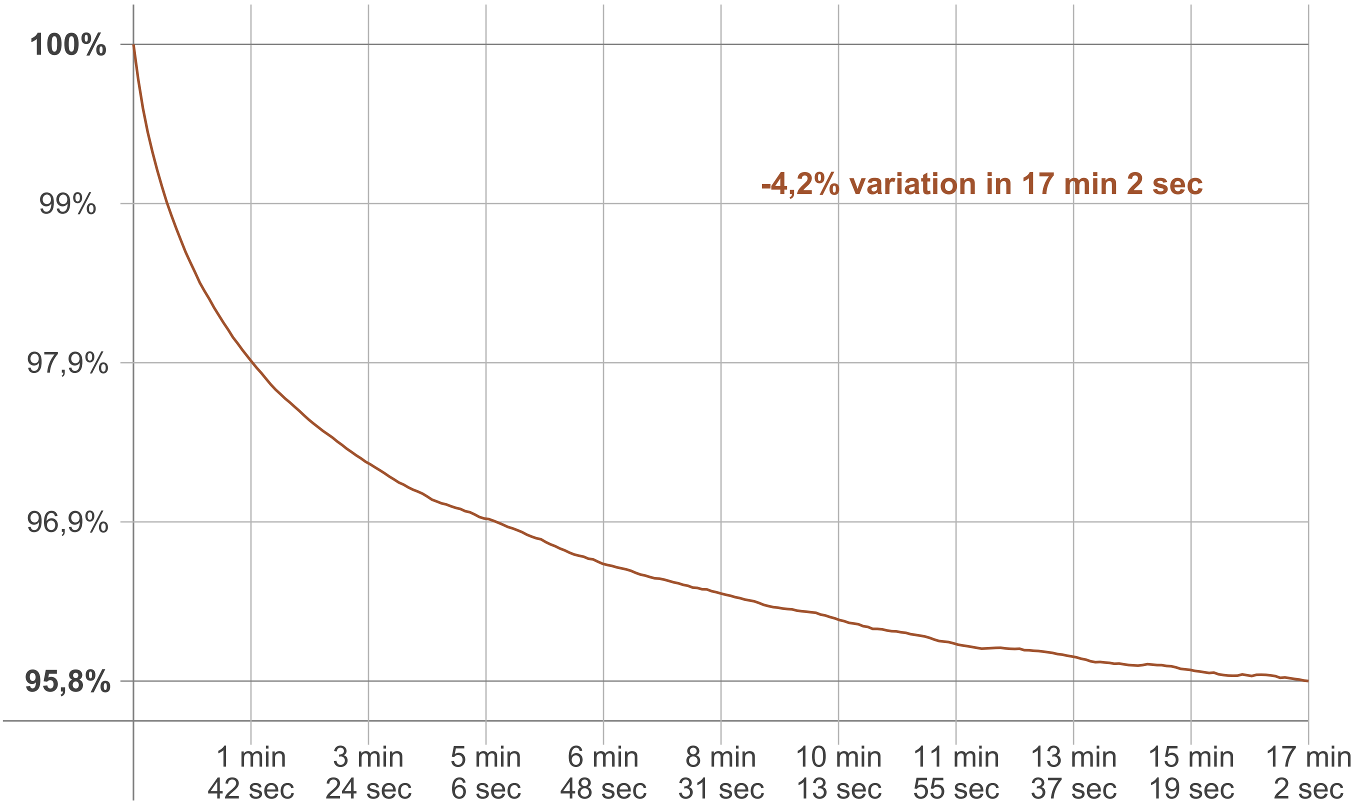
Conditions			
H = Room height			
Hdown	Lamp distance from ceiling		0.00m
Hwork	Work area height from floor		0.00m
Ework	Average lux on work area		100lx
p(%)	Ceiling reflectance	Wall reflectance	Floor reflectance
———	70	50	30
- - - - - - -	50	30	20

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
74,5 lm	171 lm	178 lm	148 lm	120 lm	99,6 lm	66,2 lm	43,9 lm	31,6 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0,081 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:	**17 min 2 sec**
Warmup variation	**-4,2%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2239 K	**+0 K**	**2239 K**

Output change

Output start	Output change	Output end
966 lm	**-33 lm**	**933 lm**