Light efficiency:

87 Lumen/Watt

Light quality:

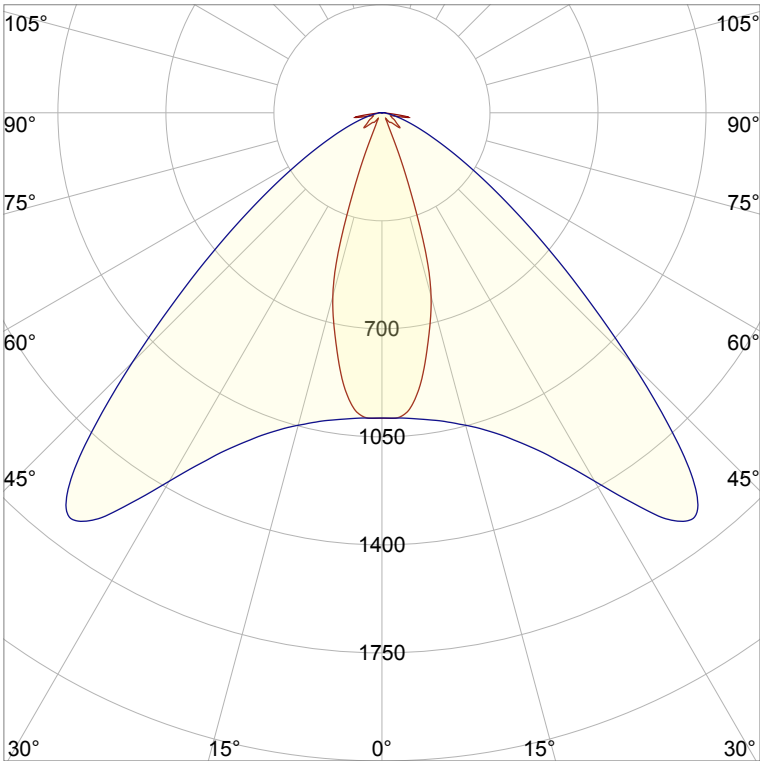
CRI: 82,6

Color temperature:

2294 K

Output: 1039 lm
Peak: 1656 cd

Power: 12,0 W
PF: 1,0



Product name:
Pegasus-3-Gold-0508-822-L3T

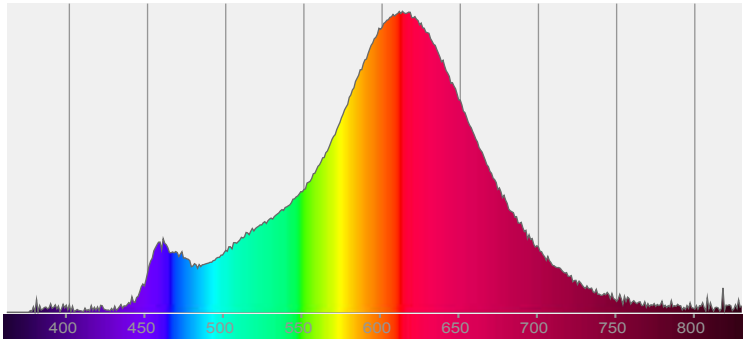
Item number:
FLNP-L-16A-0508-822-L3T

Date and time:
17.03.2021 08:59:02

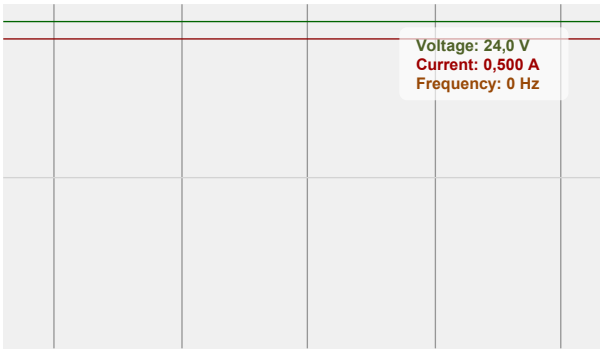
Description:
Rank: M1A4T
Toleranzen:
Lumen +/-4%
Candela +/-2,5%
Colour Temp +/-35 Grad K
CRI +/-0,7
Angular Resolution 1 Grad step
Last Calibration 20-05-2020
Pruefer: Peter Ulrich
Pruefort: Lichtlabor
Gaustrasse13-15
55411 Bingen am Rhein

CIE 1931
x: 0,495
y: 0,412

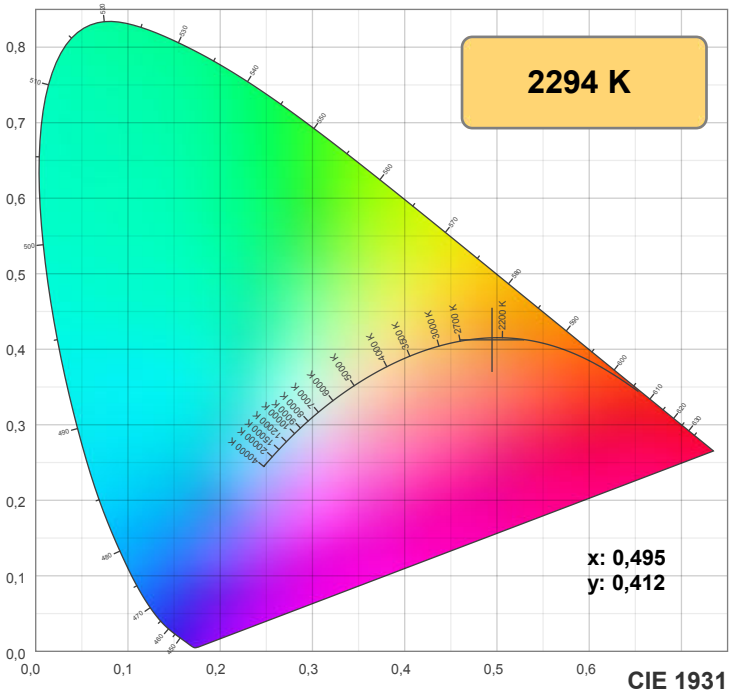
Spectra



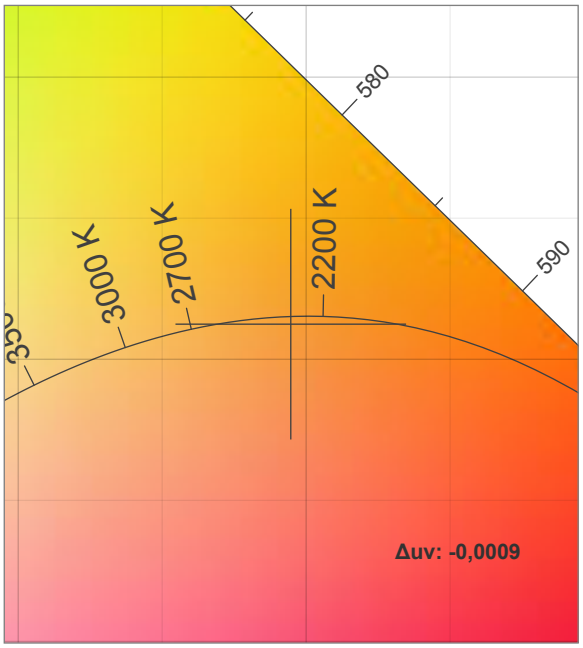
Power



Color details

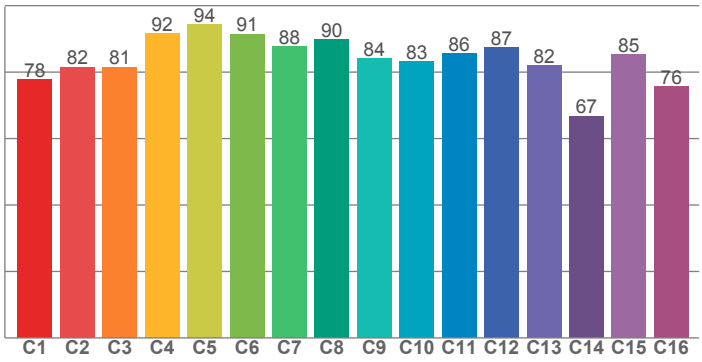


CIE 1931

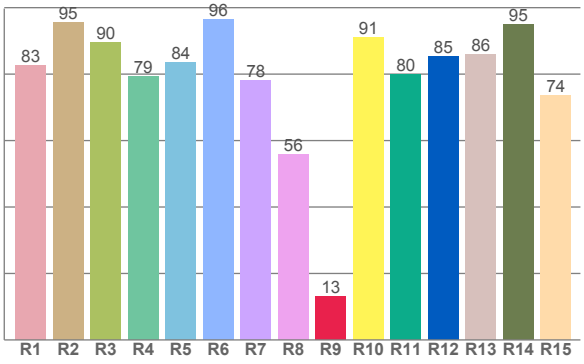


CIE 1931 ZOOM

TM30: 84,7



CRI: 82,6 (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
82,6	95,5	89,6	79,2	83,5	96,4	78,0	55,8	13,2	90,9	79,9	85,3	85,9	95,1	73,7

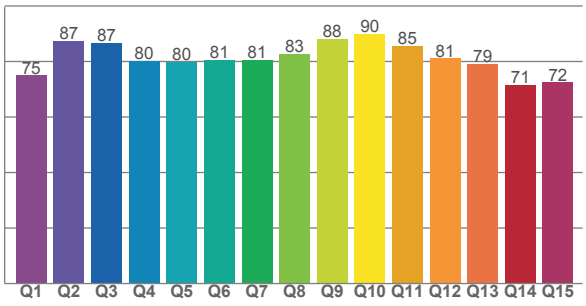
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
77,7	81,5	81,5	91,5	94,4	91,5	87,7	89,9	84,1	83,1	85,5	87,3	81,9	66,8	85,3	75,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
74,9	87,4	86,6	80,1	79,8	80,5	80,7	82,8	88,0	89,9	85,5	81,1	79,2	71,4	72,4

CQS: 80,3



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
2294 K	82,6	13,2	84,7	93,8	80,3	0,495	0,412	0,284	0,356	-0,0009

TM30 details

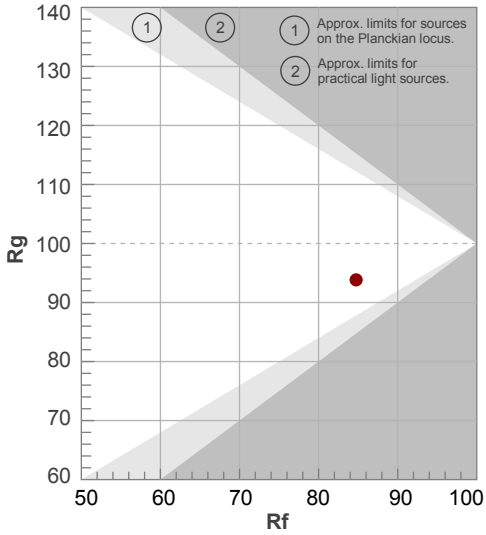
Rf 84,7

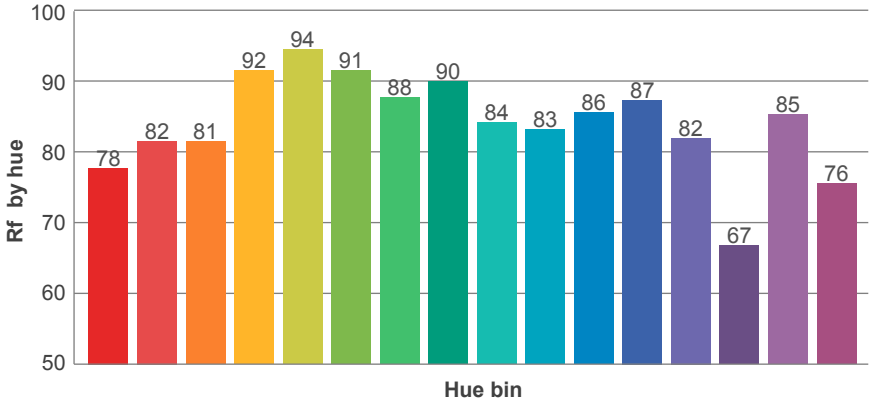
Fidelity index Rf

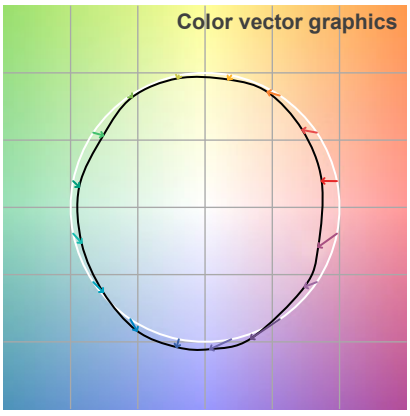
Rg 93,8

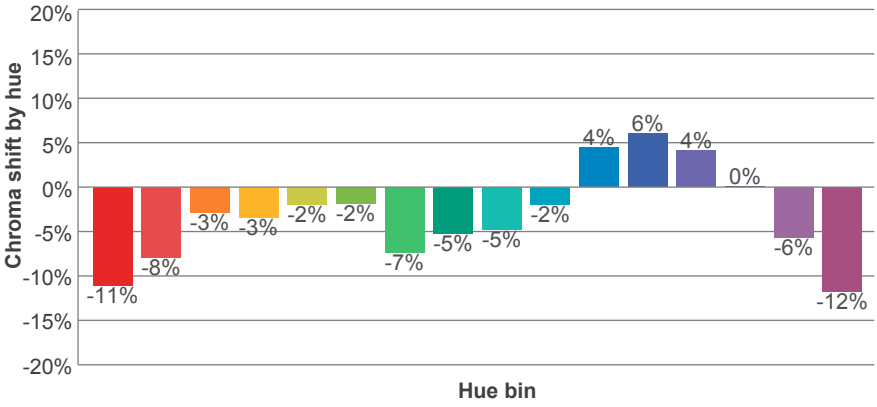
Gammut index Rg

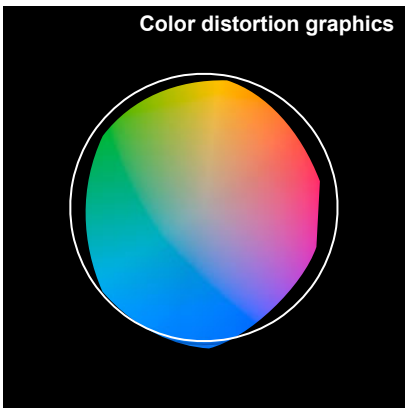
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	78	-11%	2%
2	82	-8%	8%
3	81	-3%	9%
4	92	-3%	2%
5	94	-2%	1%
6	91	-2%	0%
7	88	-7%	-2%
8	90	-5%	3%
9	84	-5%	8%
10	83	-2%	10%
11	86	4%	9%
12	87	6%	0%
13	82	4%	-17%
14	67	0%	-26%
15	85	-6%	-8%
16	76	-12%	-13%

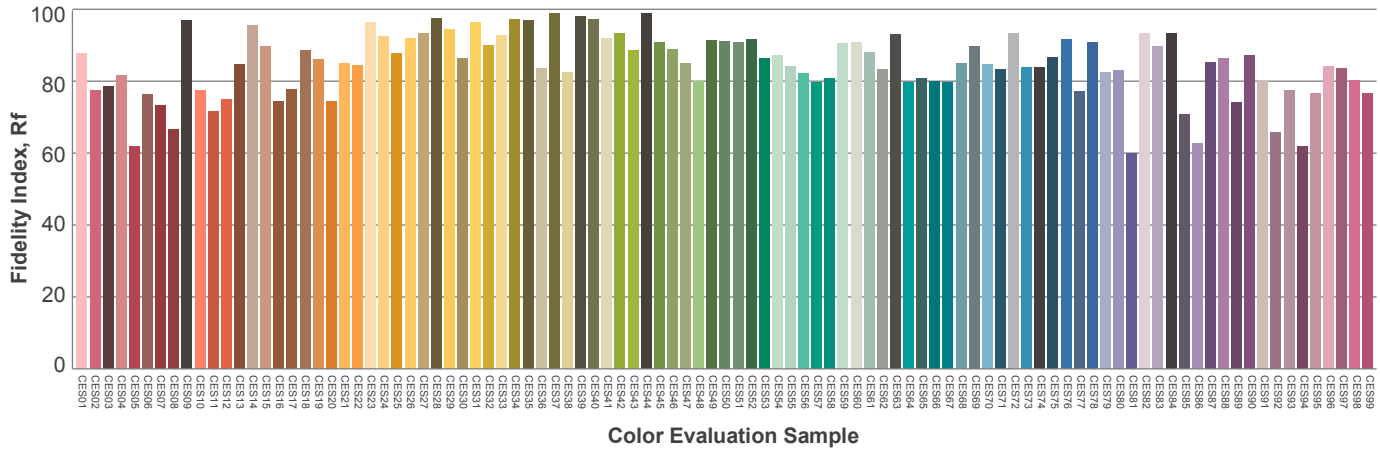




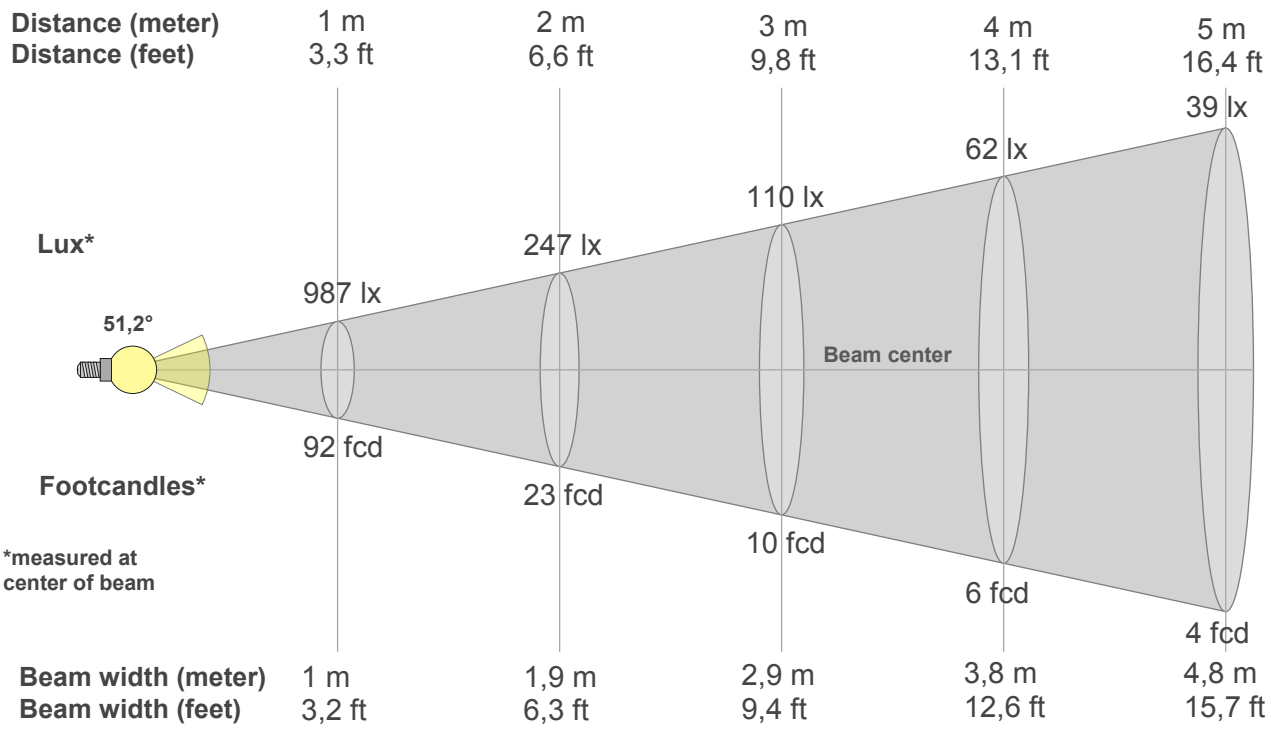








Beam details



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
987lx	247lx	110lx	62lx	39lx	27lx	20lx	15lx	12lx	10lx	8lx	7lx	6lx	5lx	4lx	4lx	3lx	3lx	3lx	2lx
91,7fcd	22,9fcd	10,2fcd	5,7fcd	3,7fcd	2,5fcd	1,9fcd	1,4fcd	1,1fcd	0,9fcd	0,8fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd	0,4fcd	0,3fcd	0,3fcd	0,3fcd	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°
987	990	982	949	890	813	733	656	564	424	270	159	81	49	37	28	23	22	27	36
100%	100%	99%	96%	90%	82%	74%	67%	57%	43%	27%	16%	8%	5%	4%	3%	2%	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°
987	990	992	997	1003	1012	1024	1040	1058	1080	1108	1144	1185	1237	1301	1378	1469	1563	1634	1650
100%	100%	100%	101%	102%	103%	104%	105%	107%	109%	112%	116%	120%	125%	132%	140%	149%	158%	166%	167%

Intensities in 180° c-plane

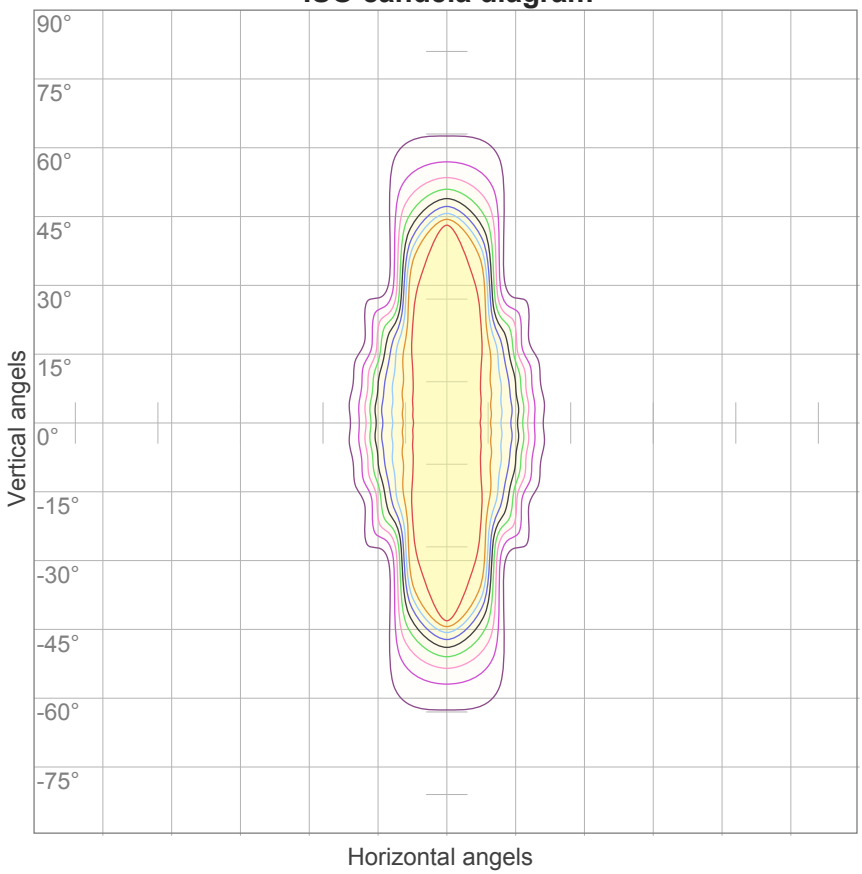
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
987	990	982	949	890	813	733	656	564	424	270	159	81	49	37	28	23	22	27	36
100%	100%	99%	96%	90%	82%	74%	67%	57%	43%	27%	16%	8%	5%	4%	3%	2%	2%	3%	4%

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°
987	990	992	997	1003	1012	1024	1040	1058	1080	1108	1144	1185	1237	1301	1378	1469	1563	1634	1650
100%	100%	100%	101%	102%	103%	104%	105%	107%	109%	112%	116%	120%	125%	132%	140%	149%	158%	166%	167%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51,2°	67°	161,5°	88,1%	73,3%

ISO candela diagram



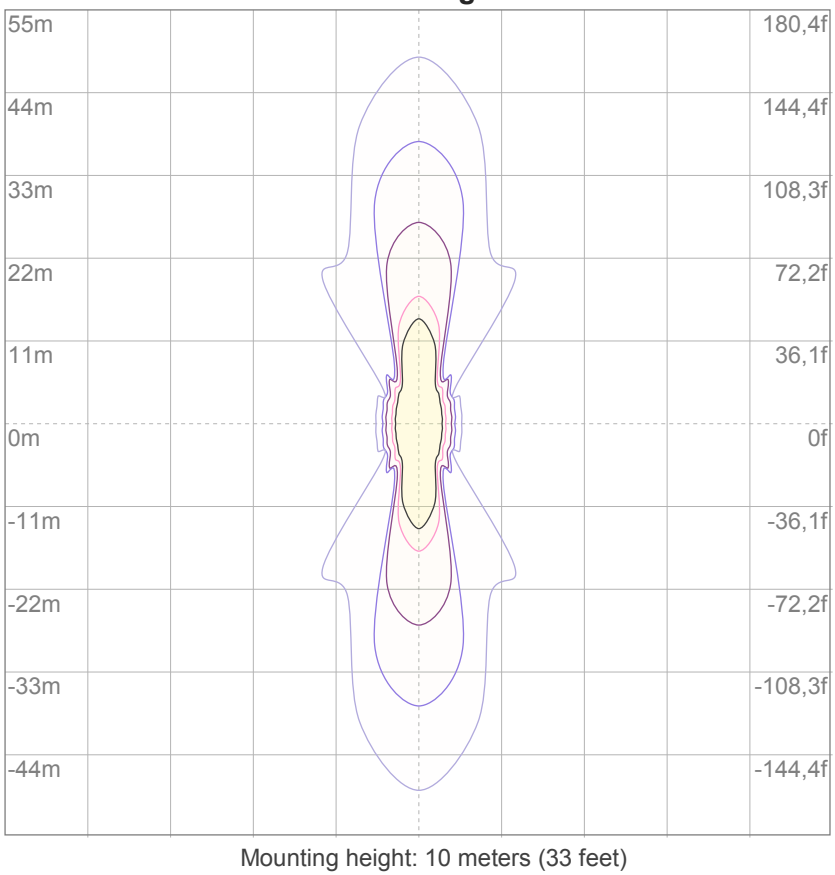
10%	99 cd
20%	197 cd
30%	296 cd
40%	395 cd
50%	493 cd
60%	592 cd
70%	691 cd
80%	790 cd
90%	888 cd

Conditions:

Number of c-planes: 16

Candela at center: 987 cd

ISO lux diagram



3%	0,296 lx
5%	0,493 lx
10%	0,987 lx
30%	2,96 lx
50%	4,93 lx

Conditions:

Number of c-planes: 16

Lux at center: 9,87 lx

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

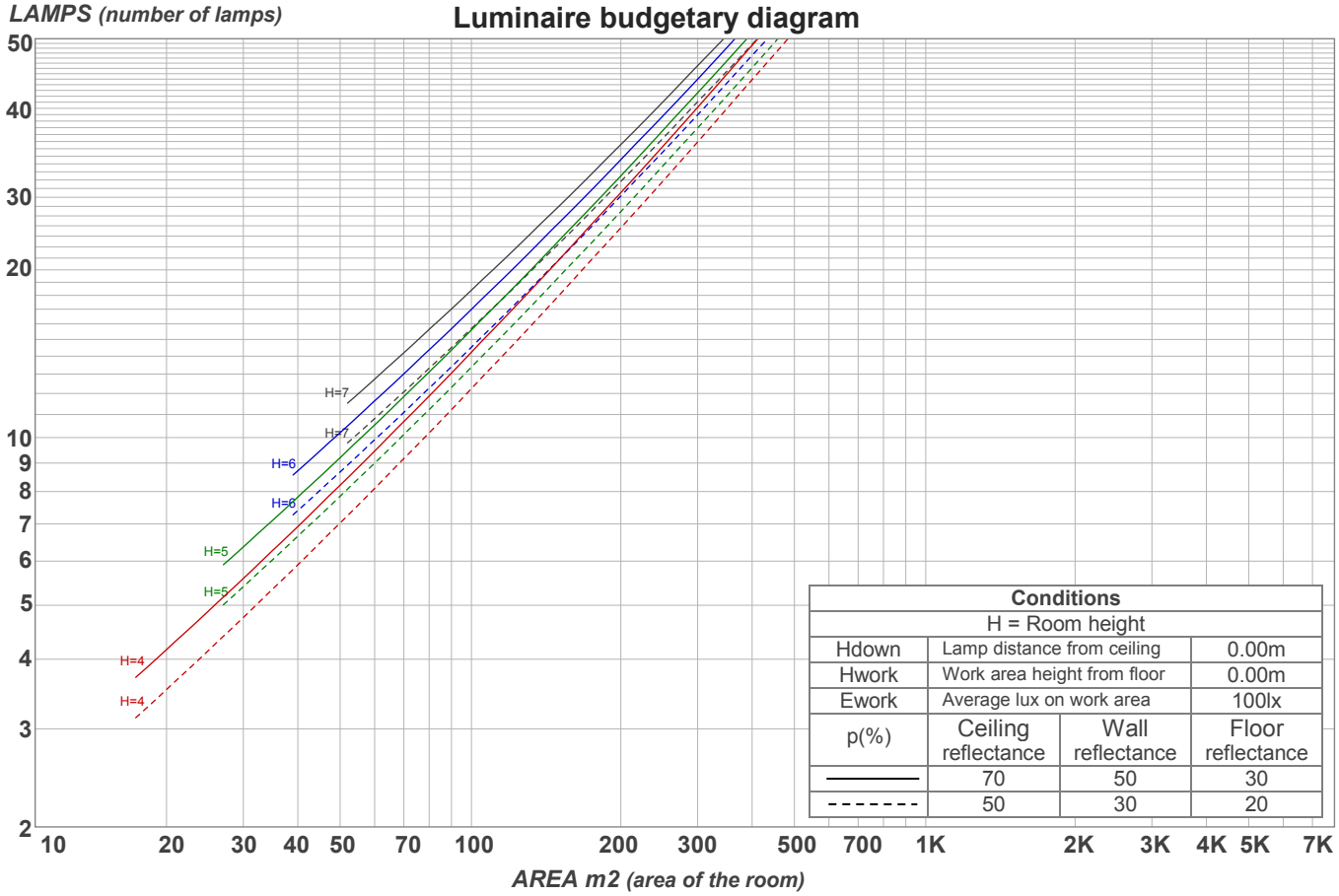
Glare Evaluation According to UGR

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	13,2	14,1	13,4	14,4	14,6	26,2	27,1	26,3	27,3	27,5
	3H	14,5	15,5	14,9	15,7	15,9	26,4	27,4	26,8	27,7	27,9
	4H	15,7	16,7	16,1	16,9	17,2	26,5	27,5	26,9	27,8	28,0
	6H	19,4	20,2	19,7	20,5	20,9	26,7	27,5	27,0	27,8	28,1
	8H	20,7	21,5	21,0	21,8	22,2	26,6	27,4	27,0	27,8	28,2
	12H	20,9	21,7	21,3	22,0	22,5	26,6	27,4	27,0	27,7	28,2
4H	2H	13,7	14,7	14,1	14,9	15,1	25,8	26,8	26,2	27,0	27,3
	3H	15,3	16,1	15,7	16,4	16,9	26,3	27,1	26,6	27,4	27,8
	4H	16,6	17,3	17,1	17,8	18,3	26,3	27,1	26,8	27,5	28,0
	6H	20,6	21,4	21,1	21,7	22,1	26,4	27,1	26,9	27,5	27,8
	8H	22,1	22,8	22,7	23,2	23,5	26,4	27,1	26,9	27,4	27,8
	12H	22,4	23,0	22,9	23,4	23,8	26,4	26,9	26,9	27,4	27,8
8H	4H	16,9	17,6	17,4	18,0	18,3	26,2	26,9	26,7	27,2	27,6
	6H	21,3	21,8	21,9	22,3	22,8	26,3	26,8	26,8	27,3	27,8
	8H	23,2	23,6	23,7	24,1	24,7	26,4	26,8	26,9	27,3	28,0
	12H	23,6	23,9	24,2	24,4	25,0	26,4	26,8	27,0	27,3	27,9
12H	4H	17,0	17,5	17,5	17,9	18,4	26,2	26,7	26,7	27,2	27,6
	6H	21,5	21,9	22,0	22,4	23,0	26,4	26,8	26,9	27,3	27,9
	8H	23,3	23,7	23,9	24,2	24,8	26,4	26,8	27,0	27,3	27,9
Variation of the observer position for the luminaire distance S											
S = 1.0H		0,0 / 0,0					2,7 / -3,6				
S = 1.5H		0,1 / -0,1					4,9 / -5,4				
S = 2.0H		0,2 / -0,2					6,6 / -6,4				
Standard table		n/a					n/a				
Correction summand		n/a					n/a				
Corrected glare indices referring to 1039 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	110	110	110	105	105	105	101	101	101	98
1	110	107	103	100	108	104	101	98	100	97	95	96	94	92	92	90	89	87
2	103	96	91	86	100	94	89	85	91	87	83	87	84	81	84	81	79	77
3	96	88	81	76	94	86	80	75	83	78	74	80	76	72	78	74	71	69
4	90	80	73	68	88	79	72	67	76	71	66	74	69	65	72	68	64	62
5	84	74	67	61	82	73	66	61	71	65	60	69	63	59	67	62	59	57
6	79	68	61	56	77	67	60	55	66	59	55	64	58	54	62	58	54	52
7	75	64	56	51	73	63	56	51	61	55	51	60	54	50	58	53	50	48
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45
9	67	56	49	44	66	55	48	44	54	48	44	53	47	43	52	47	43	42
10	63	52	46	41	62	52	45	41	51	45	41	50	44	41	49	44	40	39

Luminaire budgetary diagram

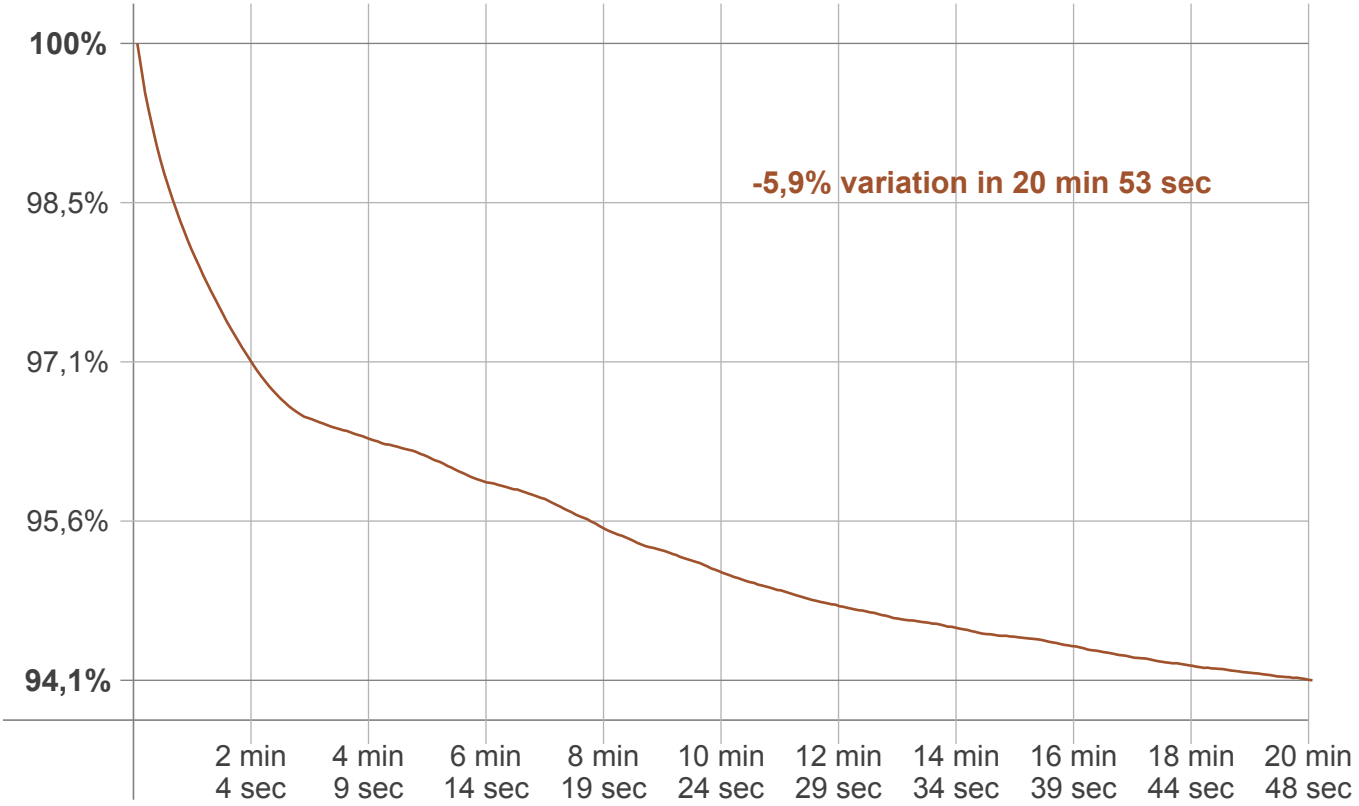


Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
91,8 lm	224 lm	206 lm	165 lm	137 lm	91,8 lm	50,1 lm	31,8 lm	25,7 lm

90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
5,80 lm	3,53 lm	1,97 lm	1,51 lm	1,19 lm	0,876 lm	0,645 lm	0,395 lm	0,133 lm

Warmup curve



Warmup result

Warmup time:	**20 min 53 sec**
Warmup variation	**-6,2%**

Warmup conditions

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

Color temperature change

CCT start	CCT change	CCT end
2292 K	+2 K	2294 K

Output change

Output start	Output change	Output end
1093 lm	-54 lm	1039 lm