LIGHTMAX
LIGHT FOR PEOPLE

Light efficiency:

56 Lumen/Watt

Light quality:

CRI: 95,0

Color temperature:

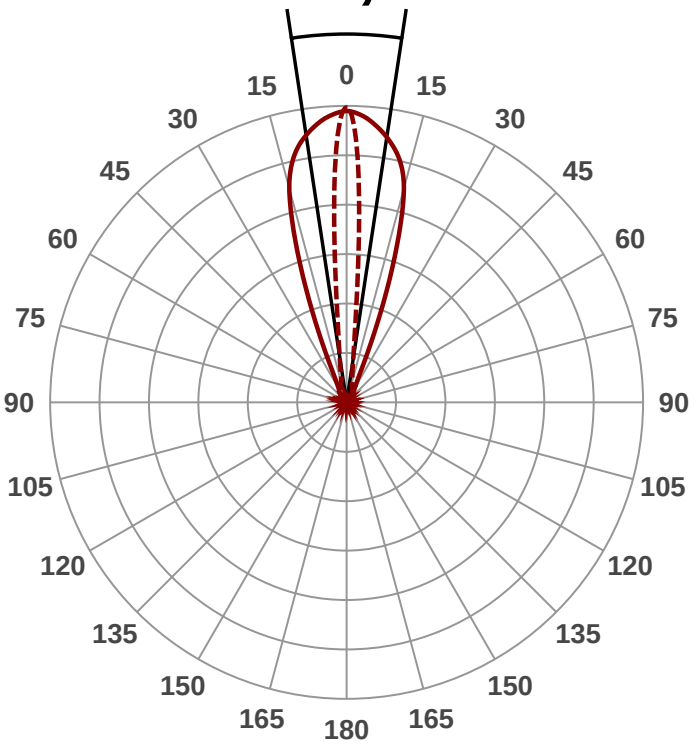
2969 K

Output: 1132 lm
Peak: 5042 cd

Power: 20,1 W
PF: 0,44

No photo

Beam angle 17,2°



CIE 1931
x: 0,441
y: 0,408

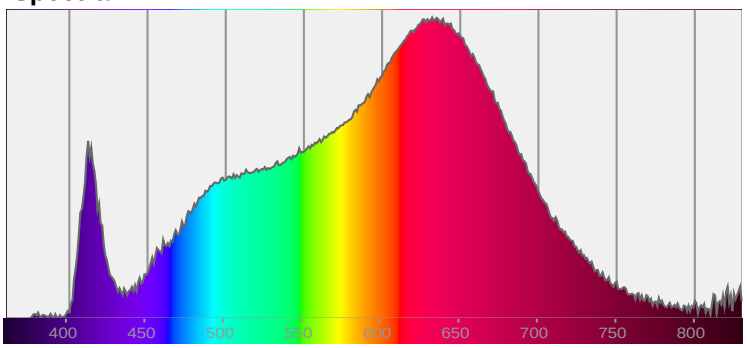
Product name:
Sattler Avveni Oval 10-36

Item number:
Avveni Optik 10-36

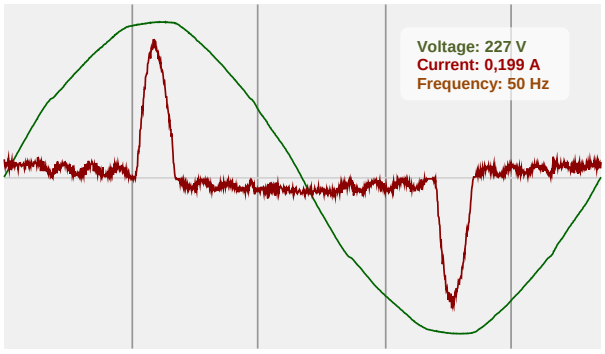
Date and time:
02.12.2016 11:15:57

Description:
Avveni mit tauschbaren Optiken
Leuchtenkopf mit Soraa 10-36 Optik
1166. 00. 00. 00. 00 Netzteil Sattler

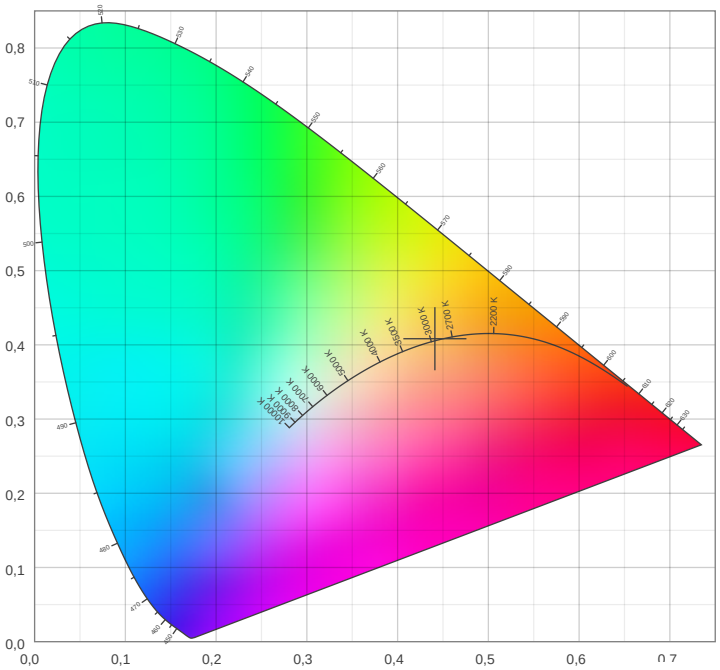
Spectra



Power



Color details



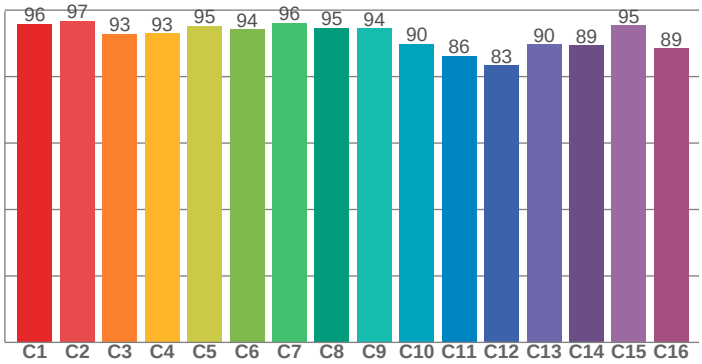
CIE 1931

2969 K

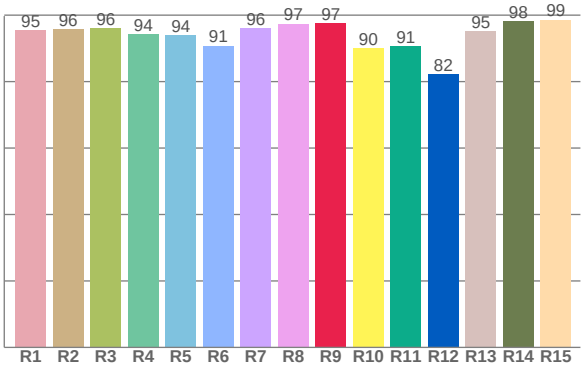
x: 0,441
y: 0,408

Δuv: 0,0011

TM30: 92,4



CRI: 95,0 (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
95,5	95,7	96,1	94,2	94,0	90,8	96,1	97,4	97,5	90,1	90,6	82,2	95,1	98,2	98,6

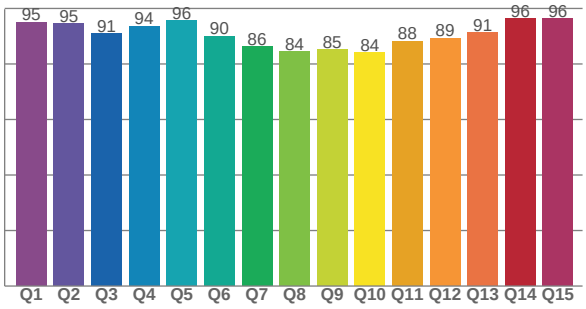
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
95,8	96,8	92,9	93,0	95,3	94,2	96,1	94,6	94,5	89,9	86,3	83,4	89,7	89,4	95,4	88,6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
95,0	94,5	90,9	93,6	95,7	90,0	86,1	84,4	85,1	84,1	88,2	89,3	91,3	96,3	96,2

CQS: 89,6



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
2969 K	95,0	97,5	92,4	97,7	89,6	0,441	0,408	0,251	0,349	0,0011

TM30 details

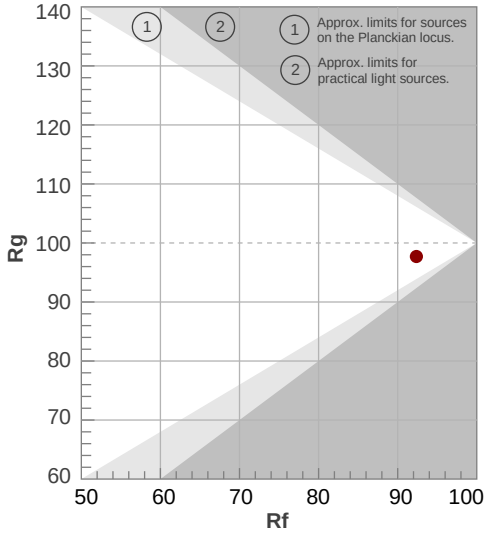
Rf 92,4

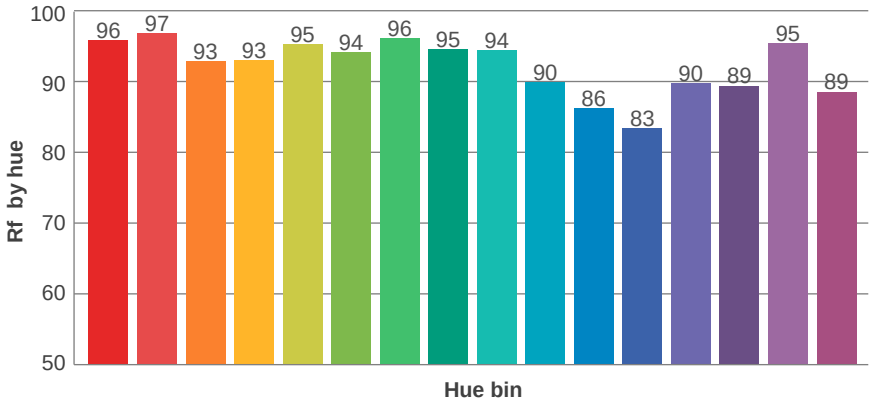
Fidelity index Rf

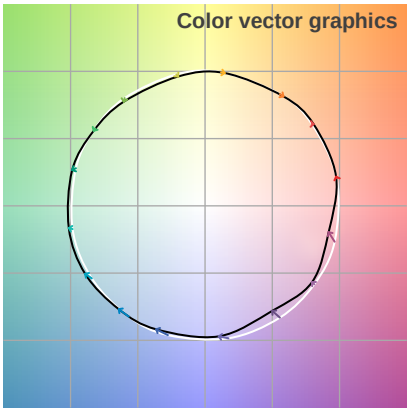
Rg 97,7

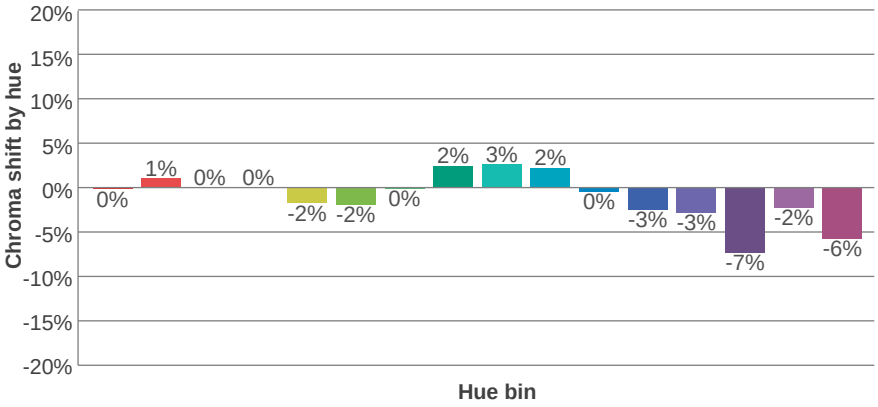
Gammut index Rg

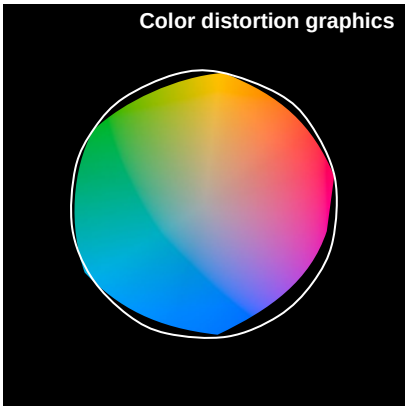
		Graphic shifts (%)	
Hue Bin	R_f	Chroma	Hue
1	96	0%	1%
2	97	1%	-1%
3	93	0%	-3%
4	93	0%	-3%
5	95	-2%	-1%
6	94	-2%	2%
7	96	0%	2%
8	95	2%	2%
9	94	3%	-1%
10	90	2%	-6%
11	86	0%	-9%
12	83	-3%	-9%
13	90	-3%	-7%
14	89	-7%	-2%
15	95	-2%	0%
16	89	-6%	6%

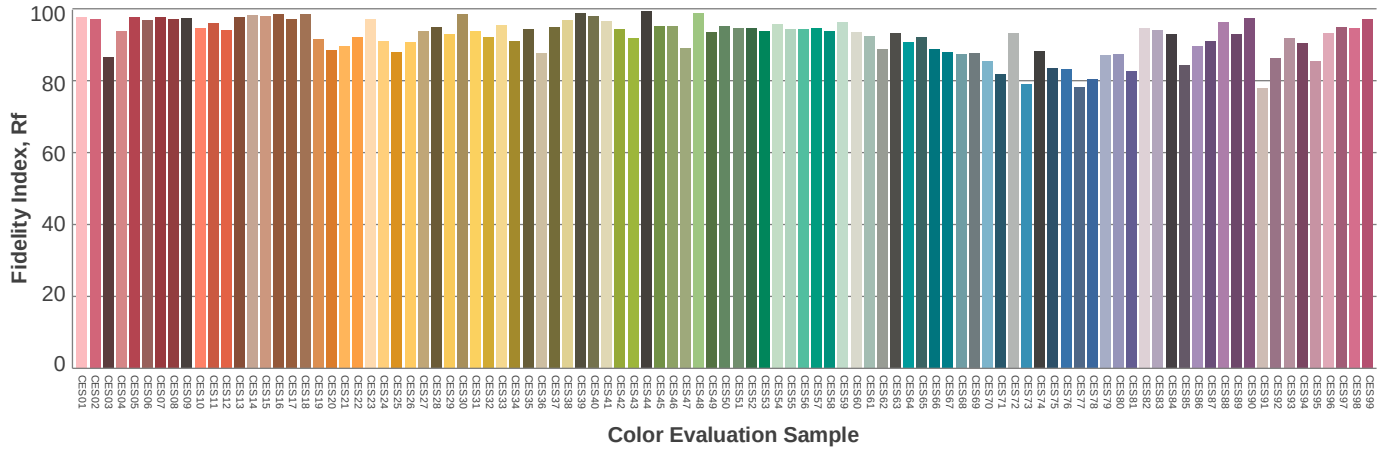




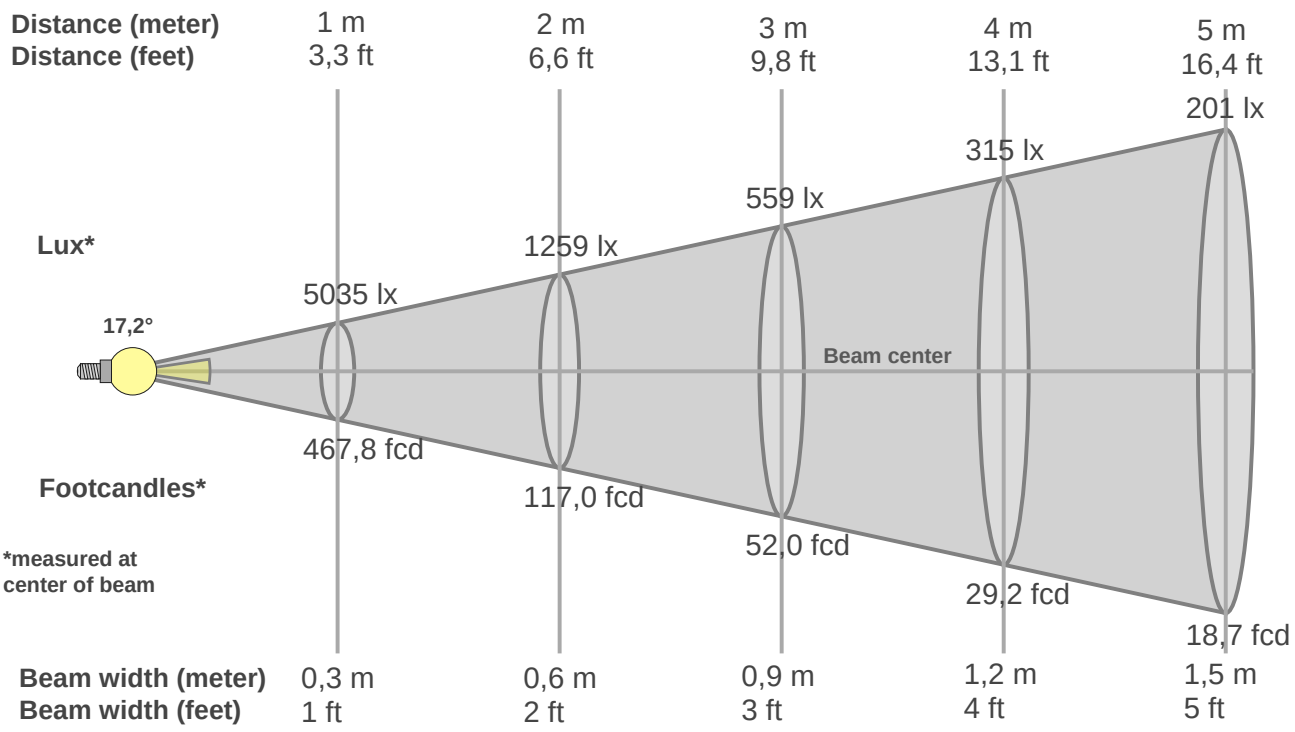








Beam details



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
5035lx	1259lx	559lx	315lx	201lx	140lx	103lx	79lx	62lx	50lx	42lx	35lx	30lx	26lx	22lx	20lx	17lx	16lx	14lx	13lx
467,8fcd	117fcd	52fcd	29,2fcd	18,7fcd	13fcd	9,5fcd	7,3fcd	5,8fcd	4,7fcd	3,9fcd	3,2fcd	2,8fcd	2,4fcd	2,1fcd	1,8fcd	1,6fcd	1,4fcd	1,3fcd	1,2fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5035	5024	5002	4971	4936	4892	4838	4778	4713	4640	4561	4467	4354	4216	4044	3818	3517	3159	2765	2353
100%	100%	99%	99%	98%	97%	96%	95%	94%	92%	91%	89%	86%	84%	80%	76%	70%	63%	55%	47%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5035	4908	4521	3880	3045	2192	1533	1147	904	739	621	534	472	426	392	364	341	321	306	293
100%	97%	90%	77%	60%	44%	30%	23%	18%	15%	12%	11%	9%	8%	8%	7%	7%	6%	6%	6%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5035	5025	5000	4967	4925	4872	4813	4750	4681	4605	4522	4432	4326	4198	4037	3820	3523	3159	2764	2356
100%	100%	99%	99%	98%	97%	96%	94%	93%	91%	90%	88%	86%	83%	80%	76%	70%	63%	55%	47%

Intensities in 270° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
5035	4903	4510	3882	3066	2214	1543	1123	873	711	600	519	461	417	383	355	333	314	298	284
100%	97%	90%	77%	61%	44%	31%	22%	17%	14%	12%	10%	9%	8%	8%	7%	7%	6%	6%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17,2°	**33,3°**	**89,6°**	**89,2%**	**78,3%**

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	15,8	16,8	16,1	17,0	17,2	15,1	16,0	15,4	16,2	16,5
	3H	17,2	18,1	17,6	18,4	18,6	16,5	17,3	16,8	17,6	17,9
	4H	17,9	18,7	18,2	19,0	19,3	17,1	17,9	17,5	18,2	18,5
	6H	18,4	19,2	18,8	19,5	19,8	17,6	18,4	18,0	18,7	19,0
	8H	18,6	19,3	19,0	19,7	20,0	17,8	18,5	18,2	18,9	19,2
	12H	18,8	19,5	19,2	19,8	20,2	18,0	18,6	18,4	19,0	19,3
4H	2H	16,3	17,1	16,7	17,4	17,7	15,7	16,5	16,1	16,8	17,1
	3H	17,9	18,6	18,3	18,9	19,3	17,3	18,0	17,7	18,3	18,7
	4H	18,7	19,3	19,1	19,7	20,1	18,1	18,7	18,5	19,1	19,4
	6H	19,4	19,9	19,8	20,3	20,7	18,7	19,2	19,2	19,7	20,1
	8H	19,7	20,1	20,1	20,5	21,0	19,0	19,5	19,5	19,9	20,3
	12H	19,9	20,3	20,4	20,7	21,2	19,2	19,6	19,7	20,0	20,5
8H	4H	19,0	19,4	19,4	19,8	20,3	18,4	18,9	18,9	19,3	19,7
	6H	19,8	20,2	20,3	20,6	21,1	19,2	19,6	19,7	20,0	20,5
	8H	20,2	20,5	20,7	20,9	21,5	19,6	19,9	20,1	20,3	20,9
	12H	20,5	20,7	21,0	21,2	21,8	19,9	20,1	20,4	20,6	21,2
12H	4H	19,0	19,4	19,5	19,8	20,3	18,4	18,8	18,9	19,3	19,7
	6H	19,9	20,2	20,4	20,6	21,2	19,3	19,6	19,8	20,1	20,6
	8H	20,3	20,5	20,8	21,0	21,6	19,7	19,9	20,2	20,4	21,0
Variation of the observer position for the luminaire distance S											
S = 1,0H		+0,1 / -0,2					+0,2 / -0,2				
S = 1,5H		+0,2 / -0,4					+0,2 / -0,4				
S = 2,0H		+0,5 / -0,7					+0,3 / -0,8				
Standard table		BK06					BK06				
Correction summand		3,0					2,3				
Corrected glare indices referring to 1132lm total luminous flux											

UGR data could be incorrect as lamp output is not symmetrical. Goto Edit->Photometric->Corrections and select Correct asymmetry.