

Light efficiency:

157 Lumen/Watt

Output: 3990 lm

Light quality:

CRI: 82.9

Peak: 2412 cd

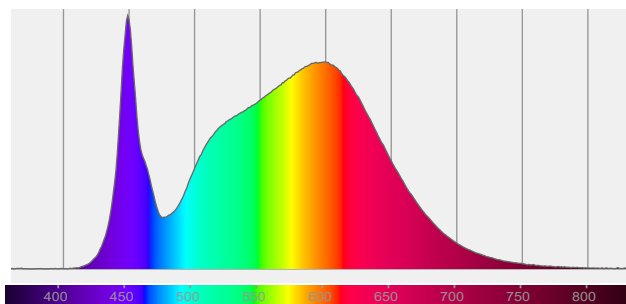
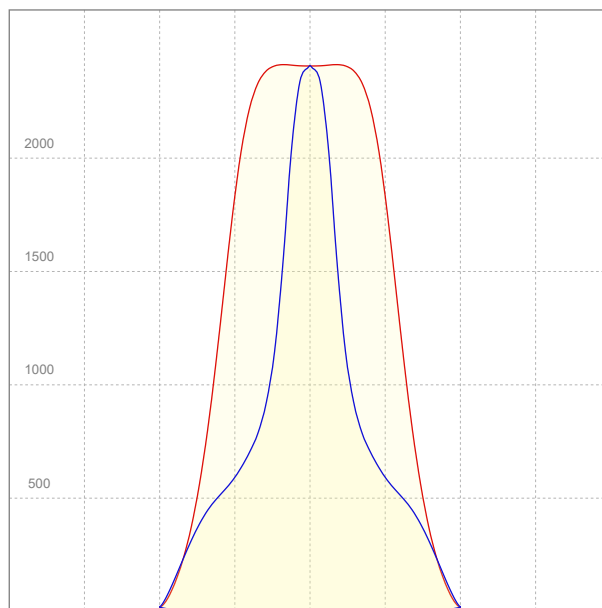
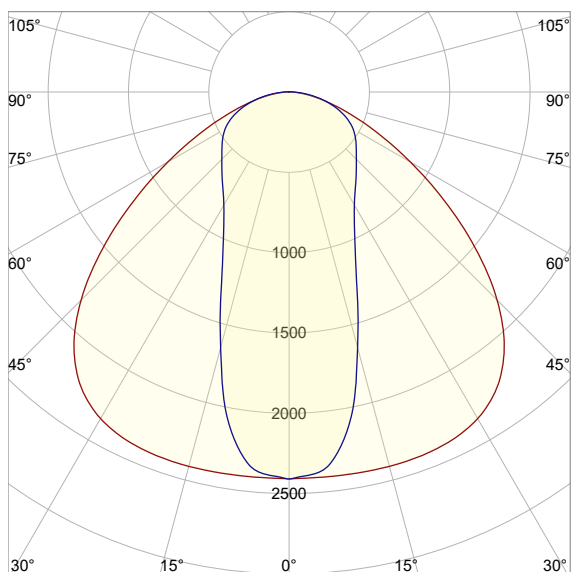
Color temperature:

3967 K

Power: 25.4 W

PF: 0.99

No photo



Product name:

MICROBeam Medium 40°

Item number:

MBE140

Configuration:

MBE140-4FT-4080-WT-DM40-1000LPF

Date and time:

3/8/2021 4:52:48 PM

Description:

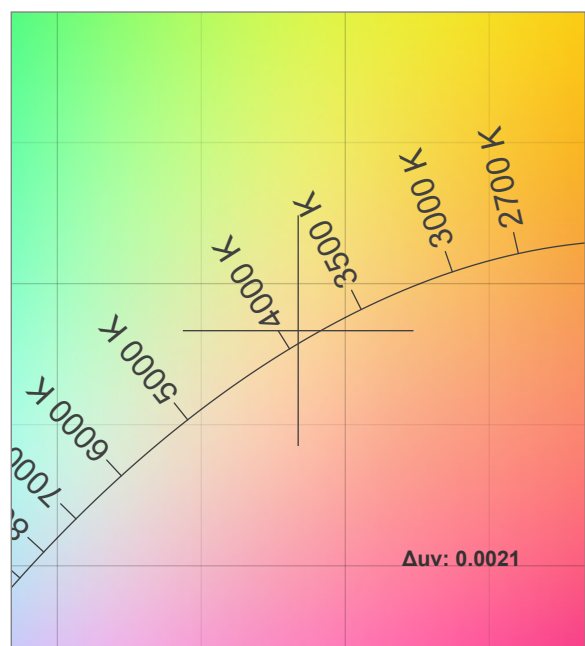
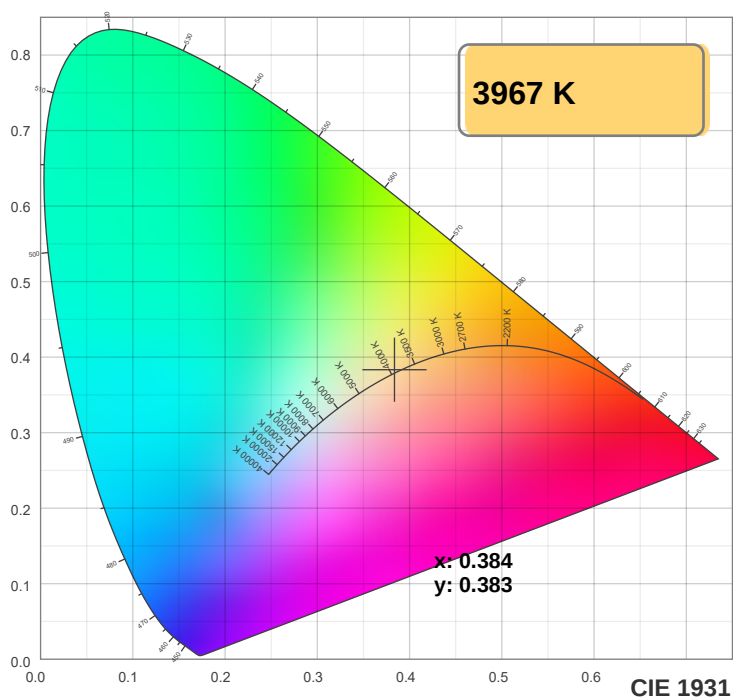
4000K 80 CRI

570 mA DC

5% Narrow Lens

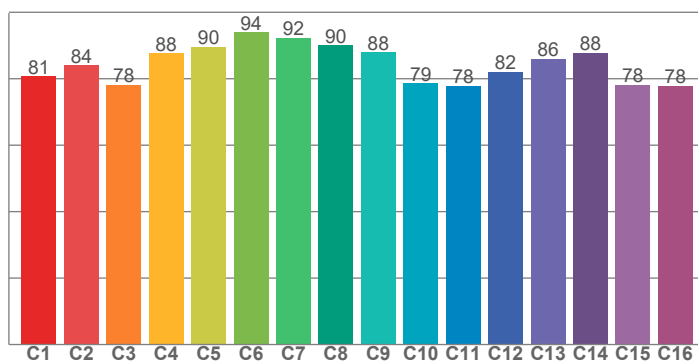
No Lenticular Lens

Color Details

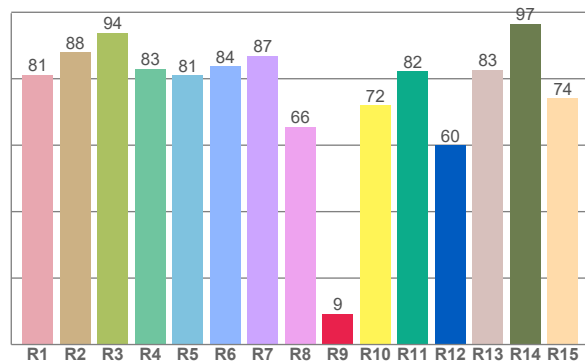


CIE 1931 ZOOM

TM-30: 84.3



CRI: 82.9 (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
81.2	88.1	93.8	83.1	81.0	83.7	87.0	65.6	9.3	71.9	82.3	60.0	82.8	96.6	74.1

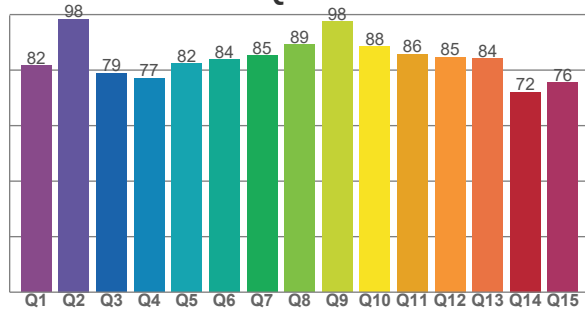
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.7	84.0	78.1	87.6	89.6	94.0	92.4	90.0	87.9	78.6	77.8	82.0	85.9	87.8	78.2	77.9

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.6	98.4	78.9	77.0	82.3	83.7	85.3	89.2	97.5	88.4	85.8	84.7	84.2	72.1	75.5

CQS: 82.8



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3967 K	82.9	9.3	84.3	96.2	82.8	0.384	0.383	0.225	0.337	0.0021

TM-30 Details

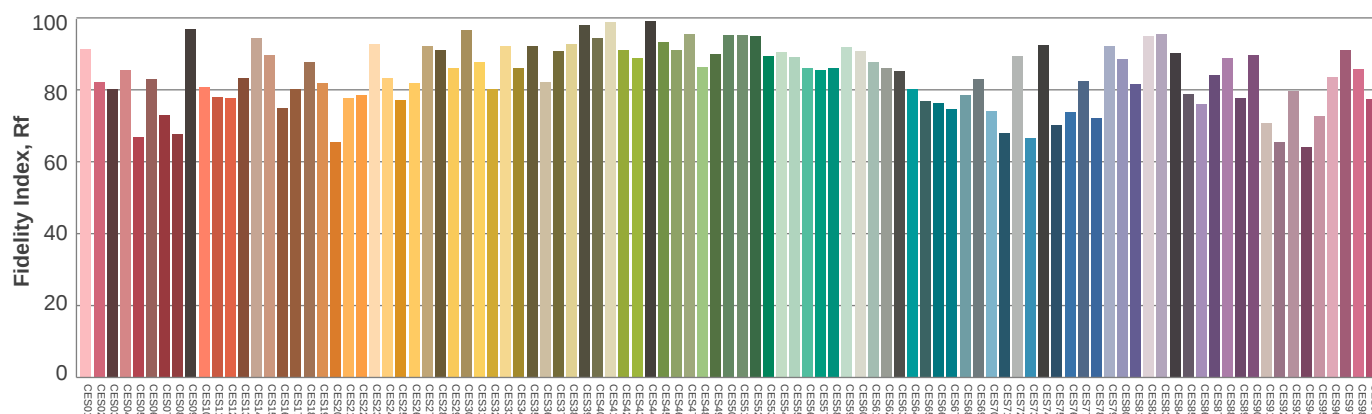
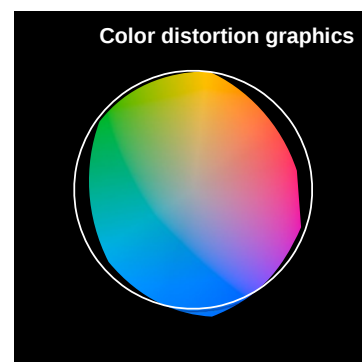
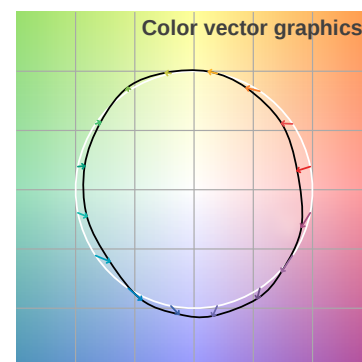
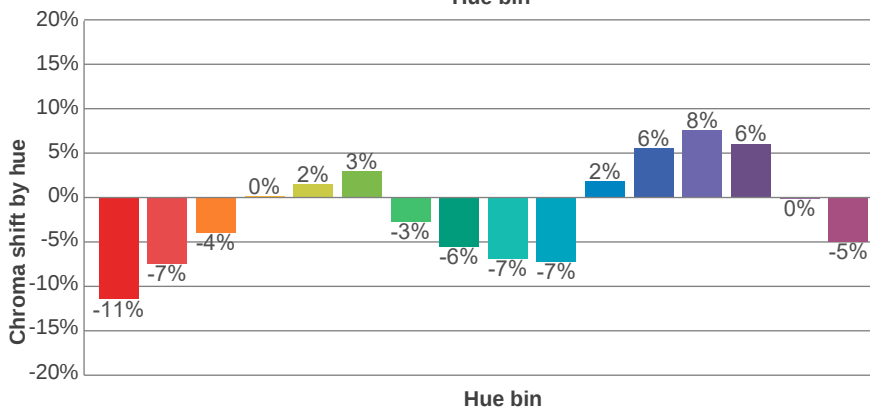
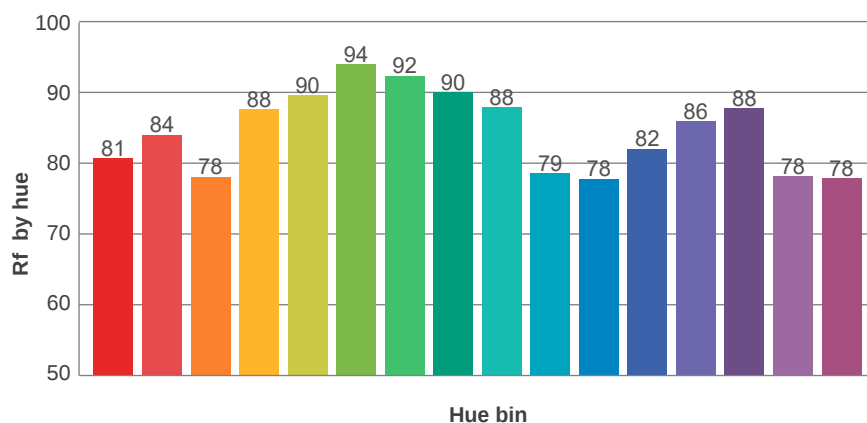
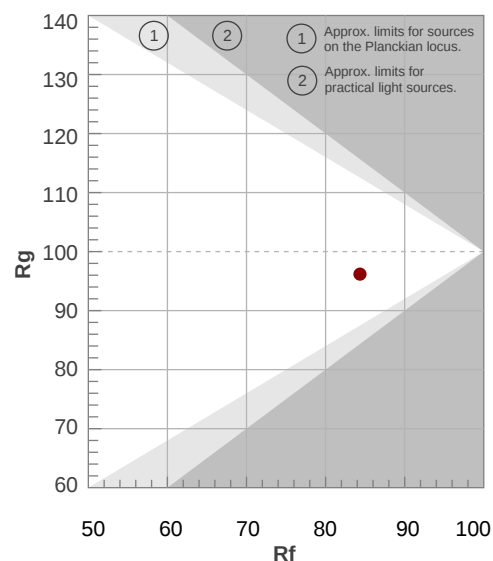
Rf 84.3

Fidelity index Rf

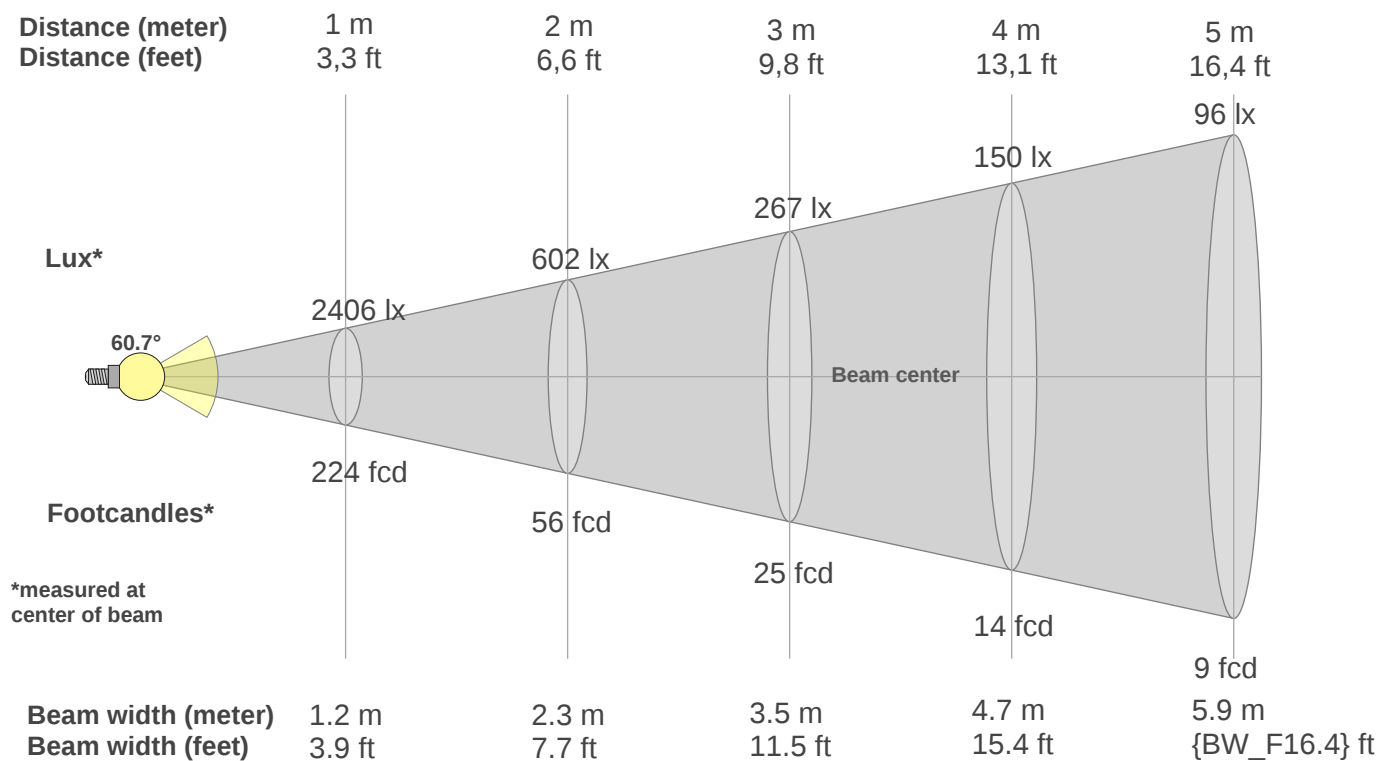
Rg 96.2

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	81	-11%	-1%
2	84	-7%	5%
3	78	-4%	11%
4	88	0%	7%
5	90	2%	4%
6	94	3%	-1%
7	92	-3%	-4%
8	90	-6%	-2%
9	88	-7%	4%
10	79	-7%	11%
11	78	2%	15%
12	82	6%	8%
13	86	8%	-5%
14	88	6%	-7%
15	78	0%	-16%
16	78	-5%	-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
2406lx	602lx	267lx	150lx	96lx	67lx	49lx	38lx	30lx	24lx	20lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	7lx	6lx
223.5fcd	55.9fcd	24.8fcd	14fcd	8.9fcd	6.2fcd	4.6fcd	3.5fcd	2.8fcd	2.2fcd	1.8fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd

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°
2406	2407	2409	2412	2408	2390	2343	2245	2075	1825	1513	1183	876	619	414	257	143	61	10	0
100%	100%	100%	100%	100%	99%	97%	93%	86%	76%	63%	49%	36%	26%	17%	11%	6%	3%	0%	0%

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°
2406	2349	2101	1654	1239	974	818	722	651	593	546	504	459	400	329	247	161	78	14	0
100%	98%	87%	69%	52%	40%	34%	30%	27%	25%	23%	21%	19%	17%	14%	10%	7%	3%	1%	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°
2406	2407	2409	2412	2408	2390	2343	2245	2075	1825	1513	1183	876	619	414	257	143	61	10	0
100%	100%	100%	100%	100%	99%	97%	93%	86%	76%	63%	49%	36%	26%	17%	11%	6%	3%	0%	0%

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°
2406	2349	2101	1654	1239	974	818	722	651	593	546	504	459	400	329	247	161	78	14	0
100%	98%	87%	69%	52%	40%	34%	30%	27%	25%	23%	21%	19%	17%	14%	10%	7%	3%	1%	0%

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				
2H	2H	25.1	26.2	25.3	26.5	26.7	22.1	23.2	22.3	23.5	23.7
	3H	26.3	27.4	26.7	27.7	27.9	24.0	25.2	24.4	25.4	25.6
	4H	26.7	27.9	27.2	28.1	28.4	24.9	26.0	25.3	26.3	26.5
	6H	27.2	28.1	27.5	28.4	28.8	25.7	26.7	26.0	27.0	27.3
	8H	27.2	28.2	27.6	28.5	28.9	26.0	26.9	26.3	27.2	27.6
	12H	27.3	28.2	27.7	28.6	29.0	26.1	27.1	26.5	27.4	27.8
4H	2H	25.2	26.3	25.6	26.6	26.8	22.7	23.8	23.1	24.1	24.3
	3H	26.6	27.5	27.0	27.9	28.3	24.9	25.8	25.3	26.2	26.6
	4H	27.1	28.0	27.6	28.4	28.9	25.9	26.7	26.3	27.1	27.7
	6H	27.6	28.4	28.1	28.8	29.1	26.7	27.6	27.2	27.9	28.3
	8H	27.8	28.5	28.3	28.9	29.3	27.1	27.8	27.6	28.2	28.6
	12H	27.9	28.5	28.4	28.9	29.4	27.3	27.9	27.8	28.4	28.8
8H	4H	27.3	28.0	27.8	28.4	28.8	26.1	26.9	26.6	27.3	27.6
	6H	27.9	28.4	28.4	28.9	29.4	27.2	27.7	27.7	28.2	28.8
	8H	28.1	28.6	28.6	29.1	29.8	27.7	28.1	28.2	28.7	29.3
	12H	28.3	28.7	28.9	29.2	29.8	28.0	28.4	28.6	28.9	29.5
12H	4H	27.3	27.9	27.8	28.3	28.8	26.1	26.8	26.6	27.2	27.7
	6H	27.9	28.4	28.5	28.9	29.6	27.3	27.8	27.8	28.3	28.9
	8H	28.2	28.6	28.8	29.1	29.7	27.7	28.2	28.3	28.7	29.3
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.3 / -0.3					0.1 / -0.1				
S = 1.5H		1.1 / -0.8					0.1 / -0.1				
S = 2.0H		2.0 / -1.3					0.2 / -0.3				
CIE 117-1995. Corrected glare indices referring to 3990 lm total luminous flux											