

MICROSquare Regressed Wide 100°

MSQ140

Light efficiency:

139 Lumen/Watt**Output: 1433 lm**

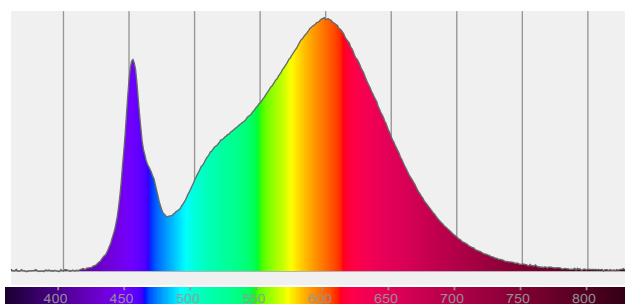
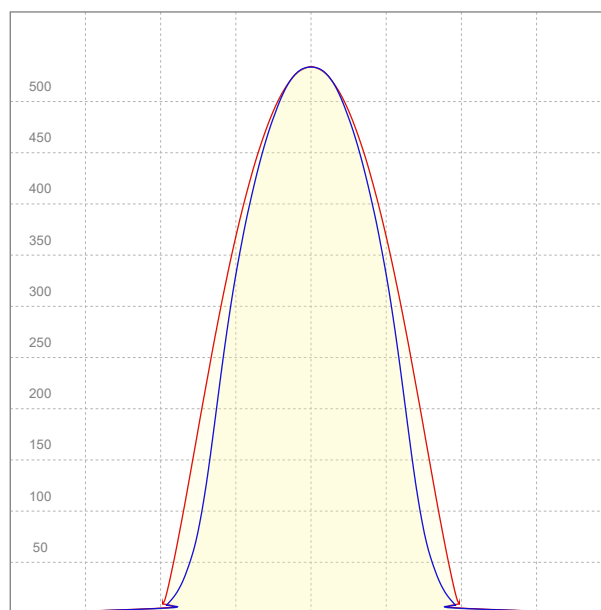
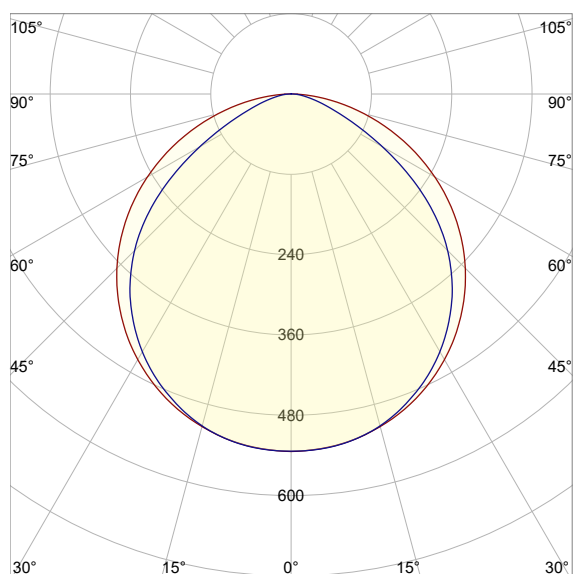
Light quality:

CRI: 82.0**Peak: 534 cd**

Color temperature:

3333 K**Power: 10.3 W****PF: 1.0**

No photo



Product name:

MICROSquare Regressed Wide 100°

Item number:

MSQ140

Configuration:

MSQ140-4FT-3580-AL-DRW100-350LPF

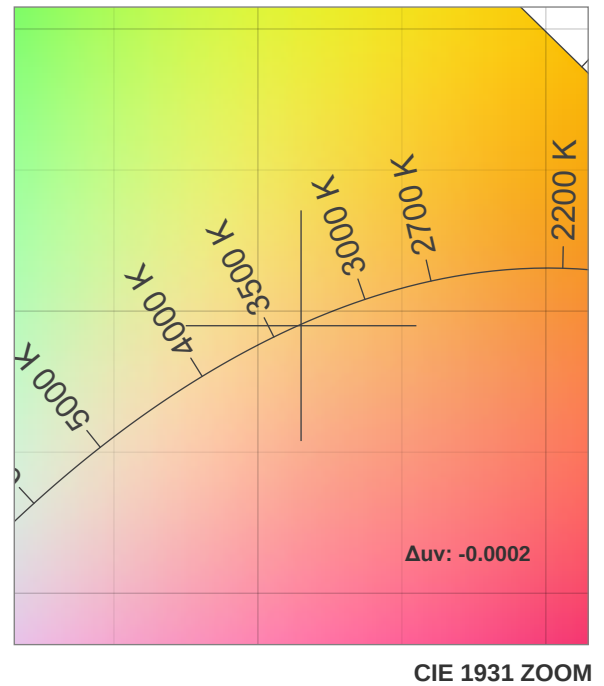
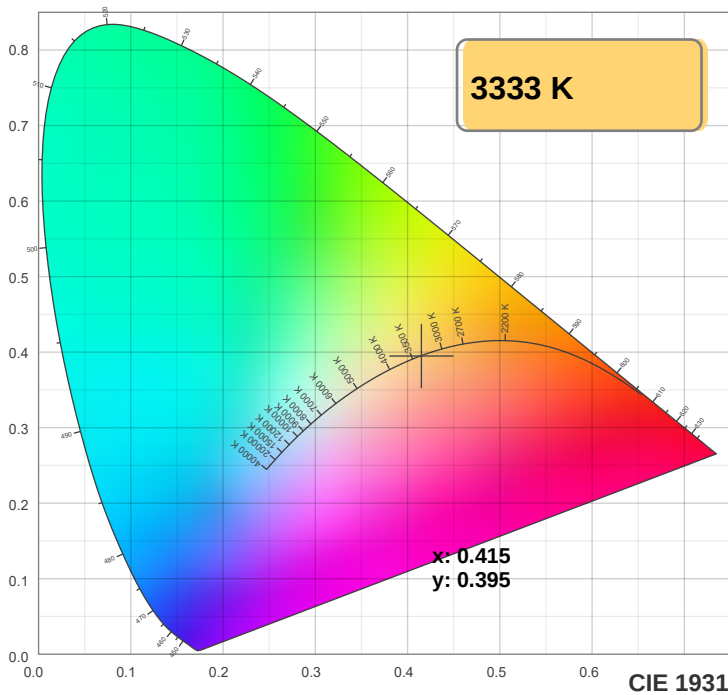
Date and time:

8/9/2021 9:53:43 AM

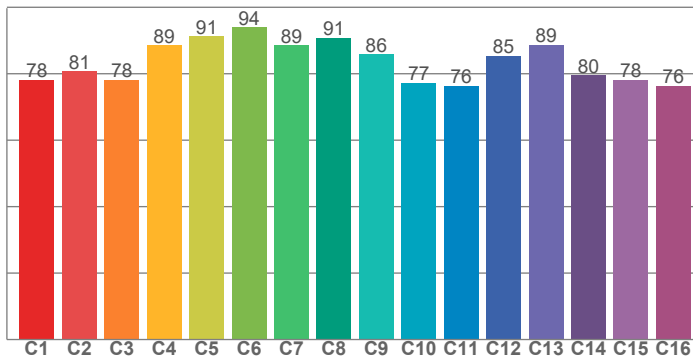
Description:

Power Supply @ 290mA, No Lenticular

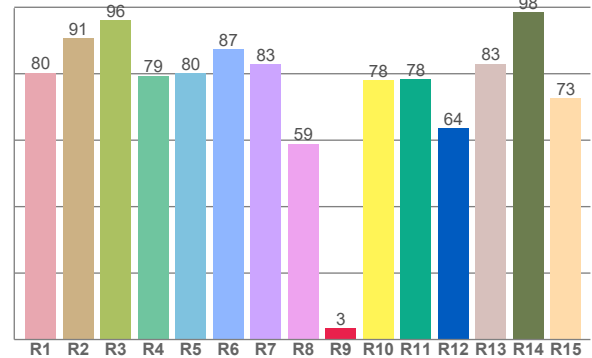
Color Details



TM-30: 83.4



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
80.4	90.6	96.0	79.4	80.2	87.4	82.8	59.0	3.5	78.1	78.3	63.6	83.0	98.5	72.6

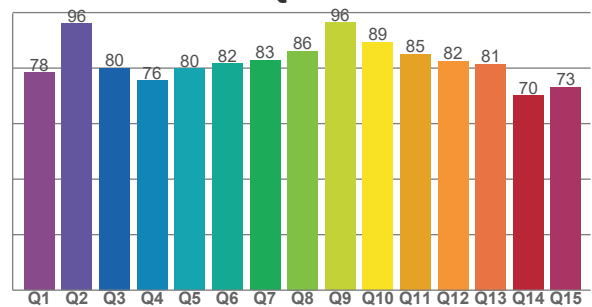
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.2	80.7	78.2	88.6	91.2	93.9	88.6	90.9	85.9	77.2	76.4	85.4	88.7	79.6	78.2	76.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.4	96.1	80.0	75.5	79.8	81.6	82.8	86.2	96.4	89.3	85.1	82.5	81.4	70.1	73.1

CQS: 81.1



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3333 K	82.0	3.5	83.4	94.7	81.1	0.415	0.395	0.240	0.343	-0.0002

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TM-30 Details

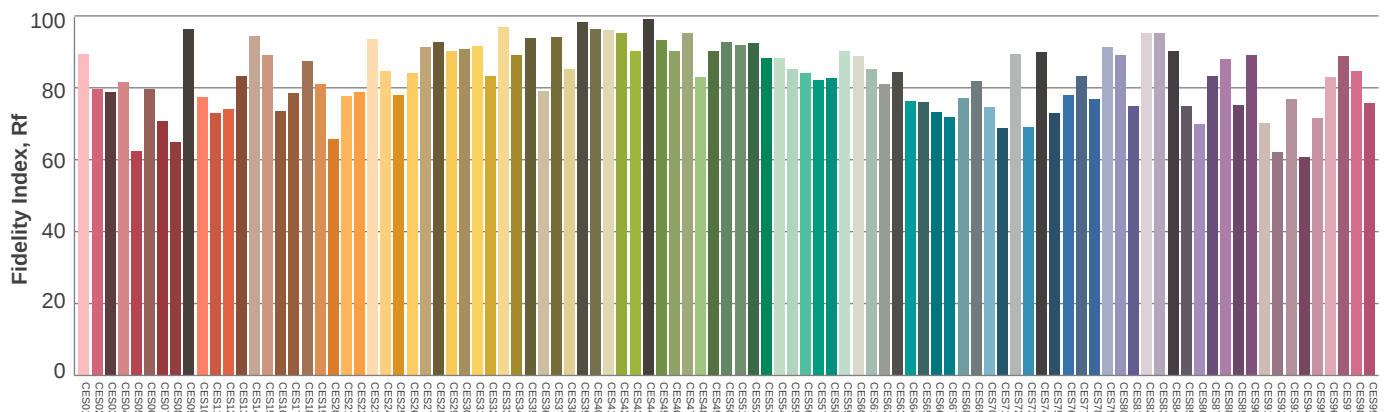
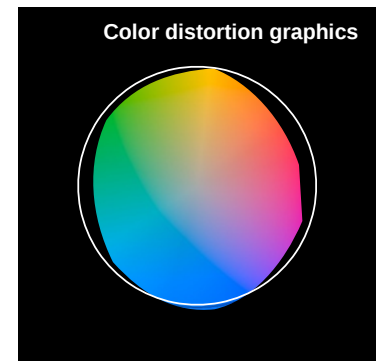
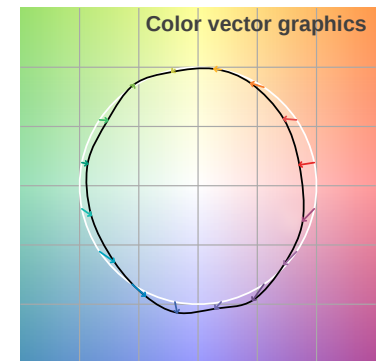
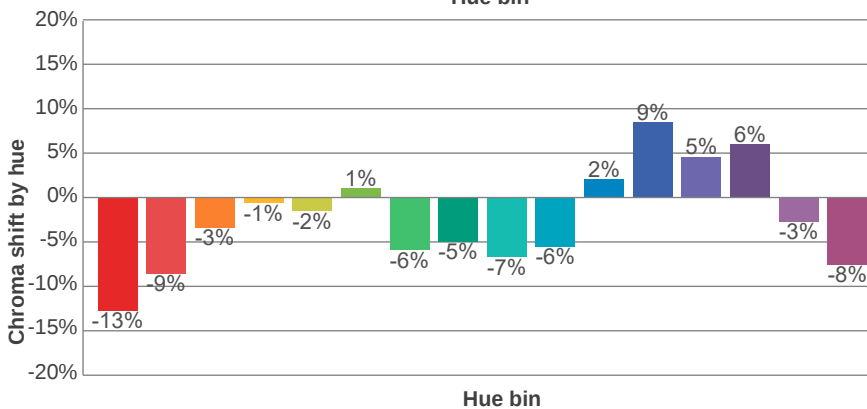
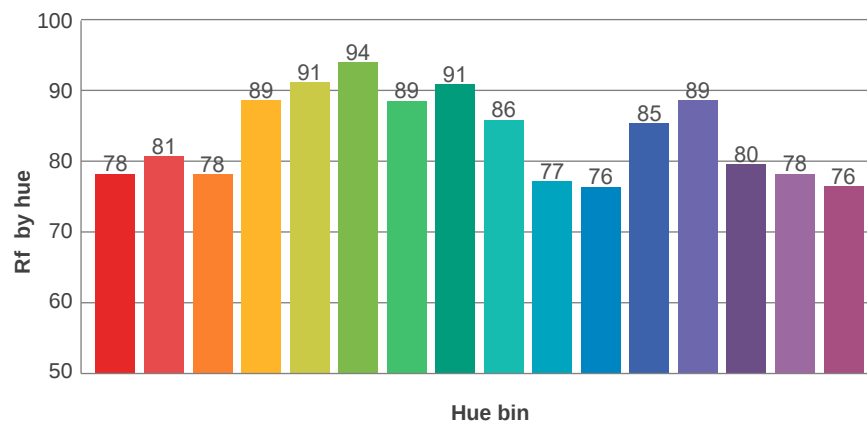
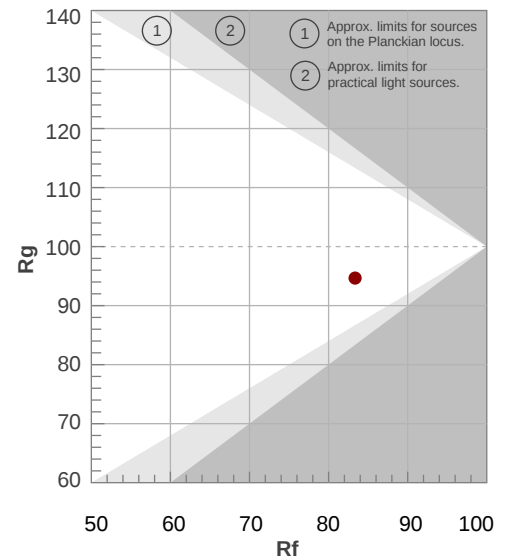
Rf 83.4

Fidelity index Rf

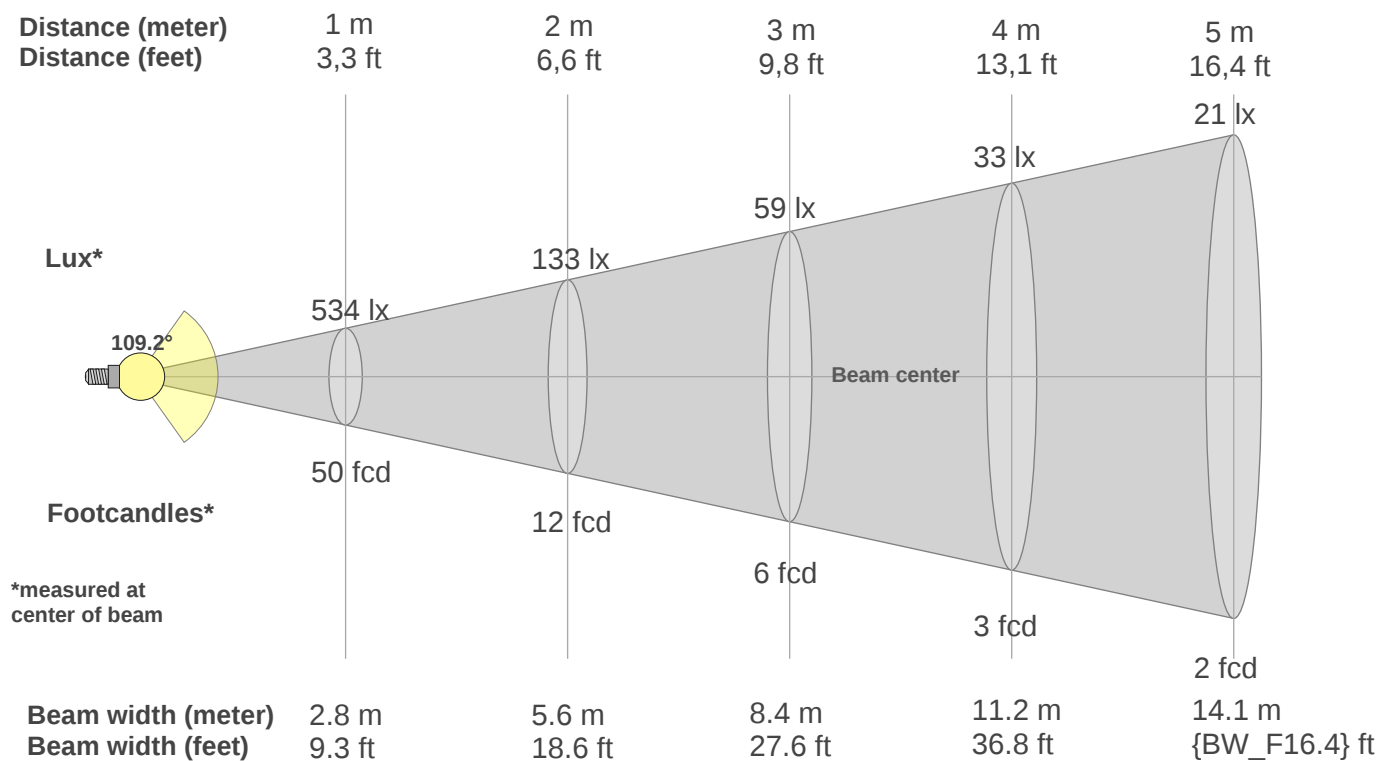
Rg 94.7

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	78	-13%	1%
2	81	-9%	7%
3	78	-3%	11%
4	89	-1%	6%
5	91	-2%	3%
6	94	1%	-2%
7	89	-6%	-3%
8	91	-5%	0%
9	86	-7%	7%
10	77	-6%	14%
11	76	2%	15%
12	85	9%	4%
13	89	5%	-6%
14	80	6%	-15%
15	78	-3%	-15%
16	76	-8%	-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
534lx	133lx	59lx	33lx	21lx	15lx	11lx	8lx	7lx	5lx	4lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx
49.6fc	12.4fcd	5.5fcd	3.1fcd	2fcd	1.4fcd	1fcd	0.8fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd

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°
534	531	525	514	500	481	458	432	401	368	331	291	248	203	157	112	69	29	5	5
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	21%	13%	5%	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°
534	532	525	513	495	472	444	412	374	330	279	219	157	103	64	39	22	11	5	5
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	52%	41%	29%	19%	12%	7%	4%	2%	1%	1%

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°
534	531	525	514	500	481	458	432	401	368	331	291	248	203	157	112	69	29	5	5
100%	100%	98%	96%	94%	90%	86%	81%	75%	69%	62%	54%	46%	38%	29%	21%	13%	5%	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°
534	532	525	513	495	472	444	412	374	330	279	219	157	103	64	39	22	11	5	5
100%	100%	98%	96%	93%	88%	83%	77%	70%	62%	52%	41%	29%	19%	12%	7%	4%	2%	1%	1%

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	21.6	22.7	21.8	23.1	23.3	20.1	21.2	20.3	21.5	21.8
	3H	23.0	24.2	23.4	24.5	24.7	20.6	21.8	21.0	22.1	22.3
	4H	23.6	24.8	24.0	25.1	25.3	20.7	21.9	21.2	22.2	22.4
	6H	24.2	25.2	24.5	25.4	25.8	20.9	21.9	21.2	22.2	22.6
	8H	24.3	25.3	24.6	25.6	26.0	20.9	21.9	21.3	22.2	22.6
	12H	24.4	25.3	24.8	25.7	26.1	20.9	21.9	21.3	22.2	22.6
4H	2H	21.9	23.1	22.3	23.3	23.6	20.7	21.8	21.1	22.1	22.4
	3H	23.7	24.6	24.0	24.9	25.4	21.4	22.4	21.8	22.7	23.2
	4H	24.3	25.1	24.7	25.5	26.1	21.6	22.4	22.0	22.9	23.4
	6H	24.8	25.6	25.3	26.0	26.3	21.7	22.6	22.2	22.9	23.3
	8H	25.0	25.7	25.5	26.1	26.5	21.8	22.5	22.3	22.9	23.3
	12H	25.1	25.7	25.6	26.2	26.6	21.8	22.4	22.3	22.8	23.3
8H	4H	24.3	25.0	24.8	25.4	25.8	21.8	22.6	22.3	22.9	23.3
	6H	24.9	25.4	25.4	25.9	26.5	22.0	22.6	22.5	23.1	23.6
	8H	25.1	25.6	25.7	26.2	26.8	22.1	22.6	22.6	23.1	23.8
	12H	25.3	25.8	25.9	26.3	26.9	22.2	22.6	22.8	23.1	23.7
12H	4H	24.2	24.9	24.7	25.3	25.8	21.8	22.4	22.3	22.8	23.3
	6H	24.9	25.4	25.4	25.9	26.5	22.1	22.6	22.6	23.1	23.7
	8H	25.1	25.5	25.7	26.0	26.7	22.2	22.6	22.8	23.1	23.7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.1					0.2 / -0.3				
S = 1.5H		0.2 / -0.2					0.6 / -0.9				
S = 2.0H		0.5 / -0.7					1.2 / -1.9				
CIE 117-1995. Corrected glare indices referring to 1433 lm total luminous flux											