

Light efficiency:

149 Lumen/Watt**Output: 3006 lm**

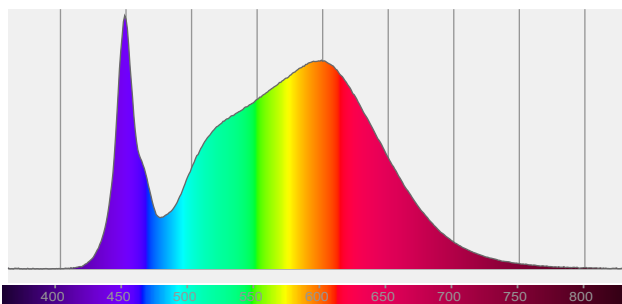
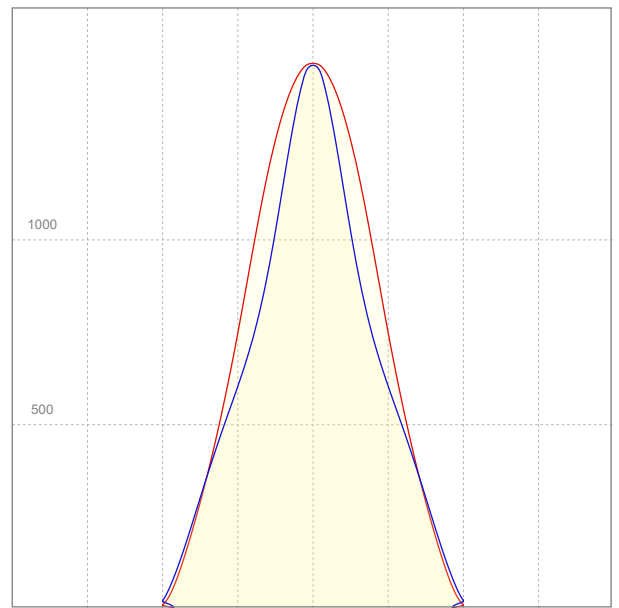
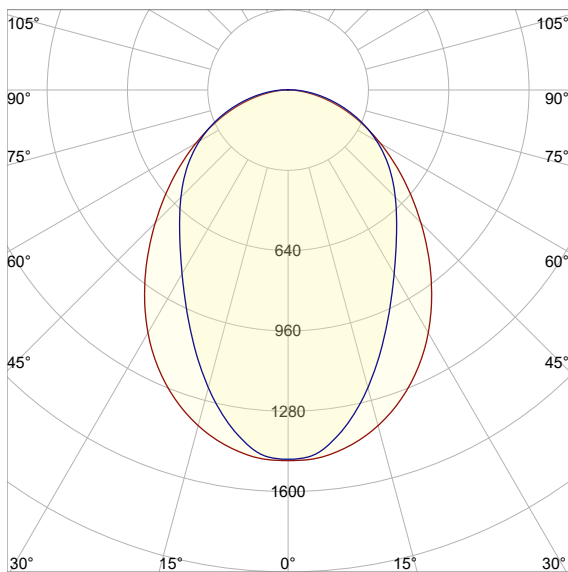
Light quality:

CRI: 83.1**Peak: 1480 cd**

Color temperature:

3951 K**Power: 20.2 W****PF: 0.99**

No photo



Product name:

MICROSquare Medium 70°

Item number:

MSQ140

Configuration:

MSQ140-4FT-4080-WT-DM70-750LPF

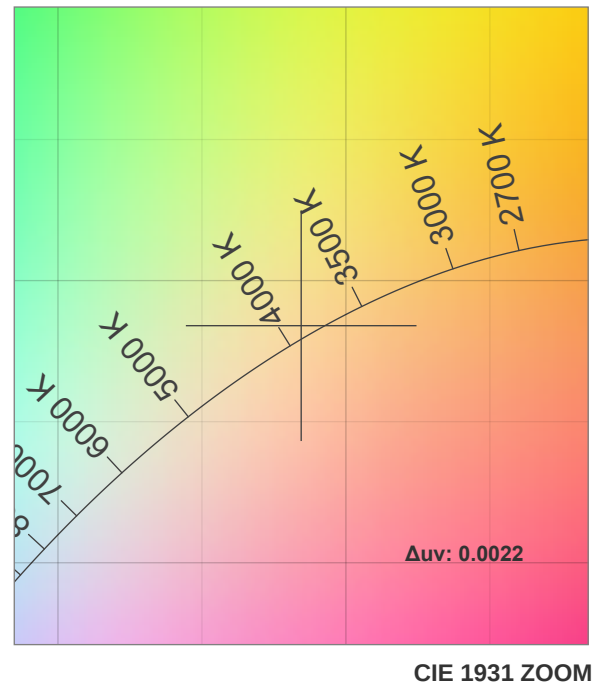
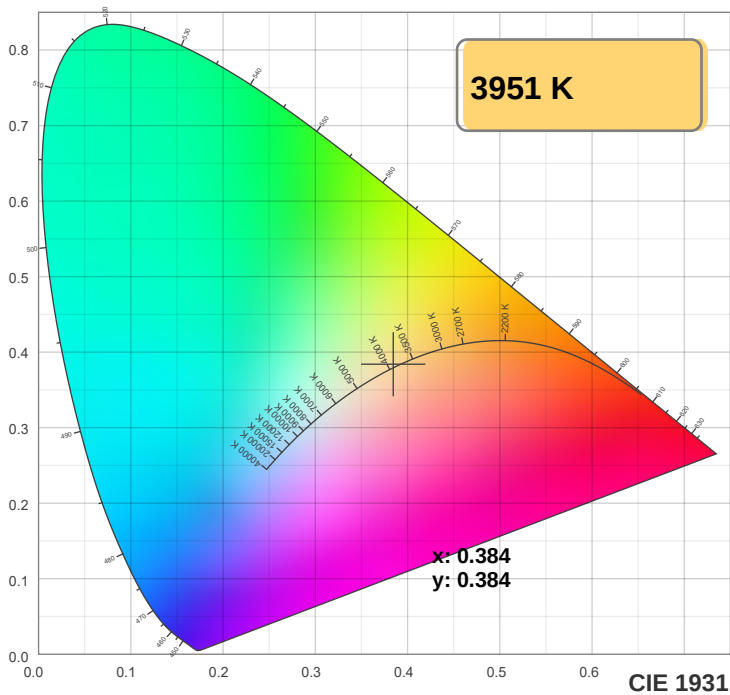
Date and time:

3/9/2021 10:34:36 AM

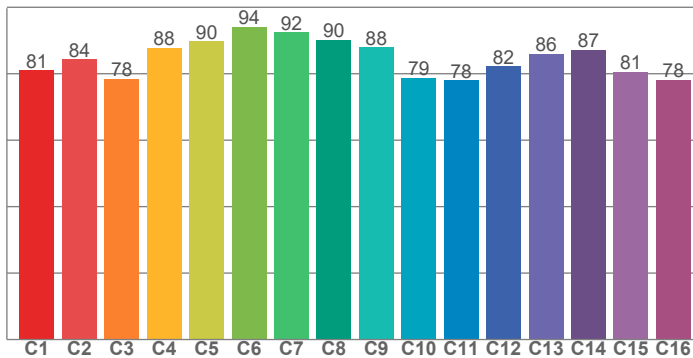
Description:

4000K 80 CRI**455 mA DC****Narrow 30% Lens with Lenticular Film**

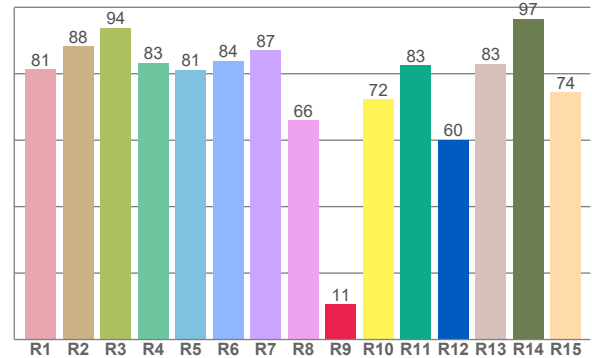
Color Details



TM-30: 84.5



CRI: 83.1 (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
81.4	88.2	93.9	83.3	81.3	83.9	87.2	66.0	10.6	72.3	82.6	60.1	83.0	96.6	74.4

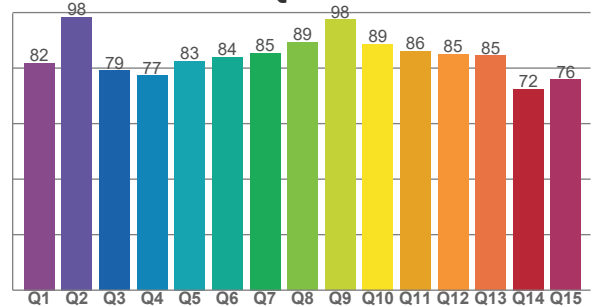
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
81.0	84.3	78.5	87.9	89.8	94.1	92.5	90.1	87.9	78.8	78.0	82.3	86.1	87.3	80.5	78.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.8	98.5	79.1	77.3	82.5	83.9	85.5	89.3	97.5	88.6	86.1	85.0	84.5	72.5	75.9

CQS: 83.1



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
3951 K	83.1	10.6	84.5	96.4	83.1	0.384	0.384	0.225	0.337	0.0022

TM-30 Details

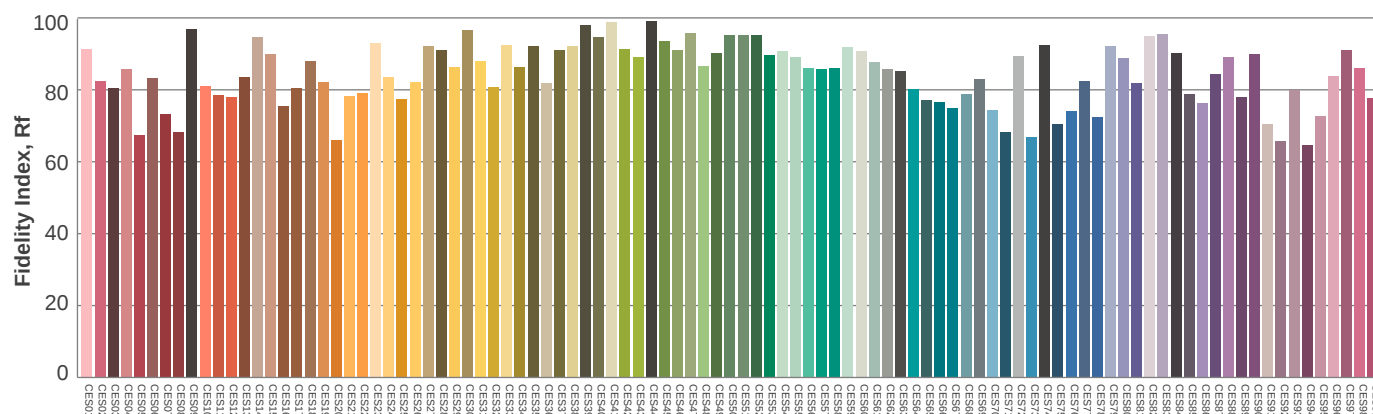
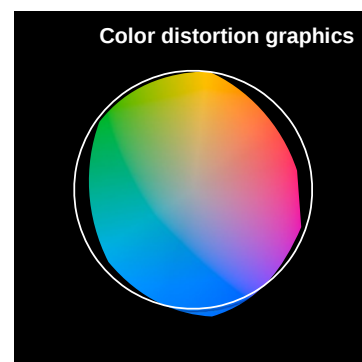
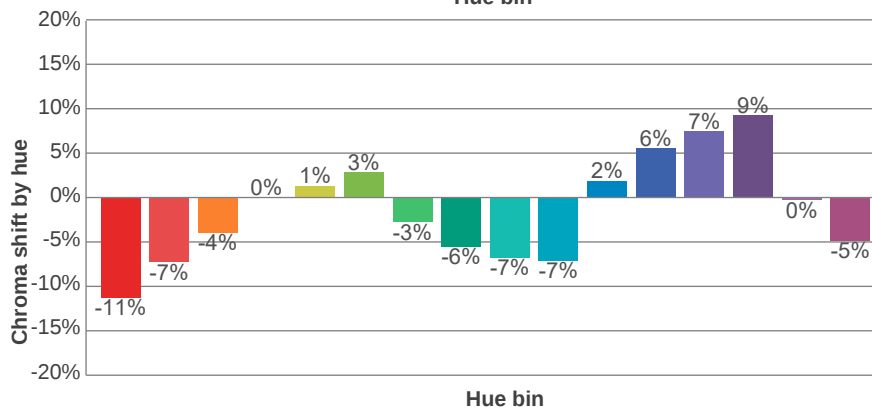
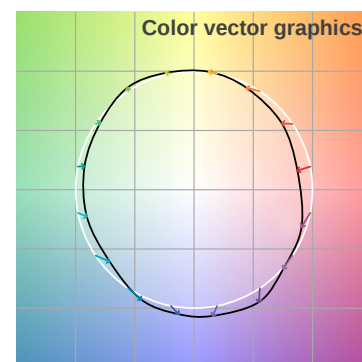
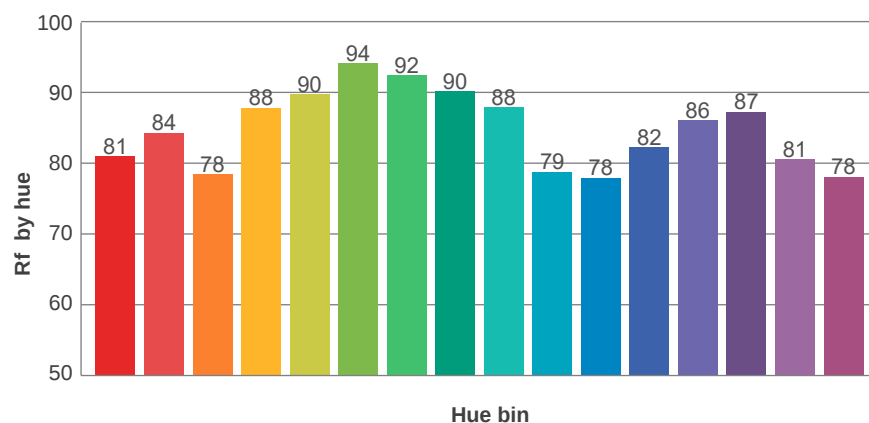
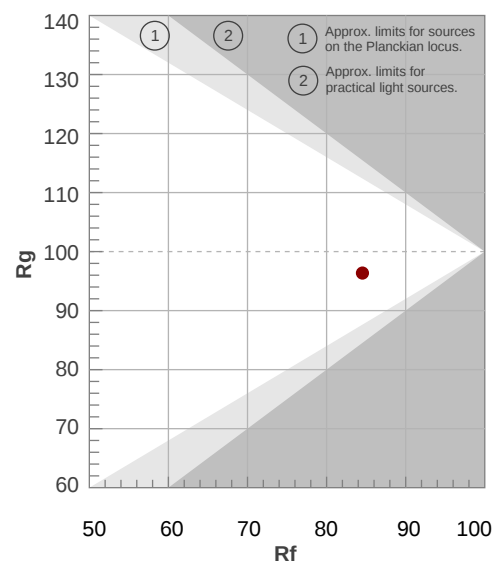
Rf 84.5

Fidelity index Rf

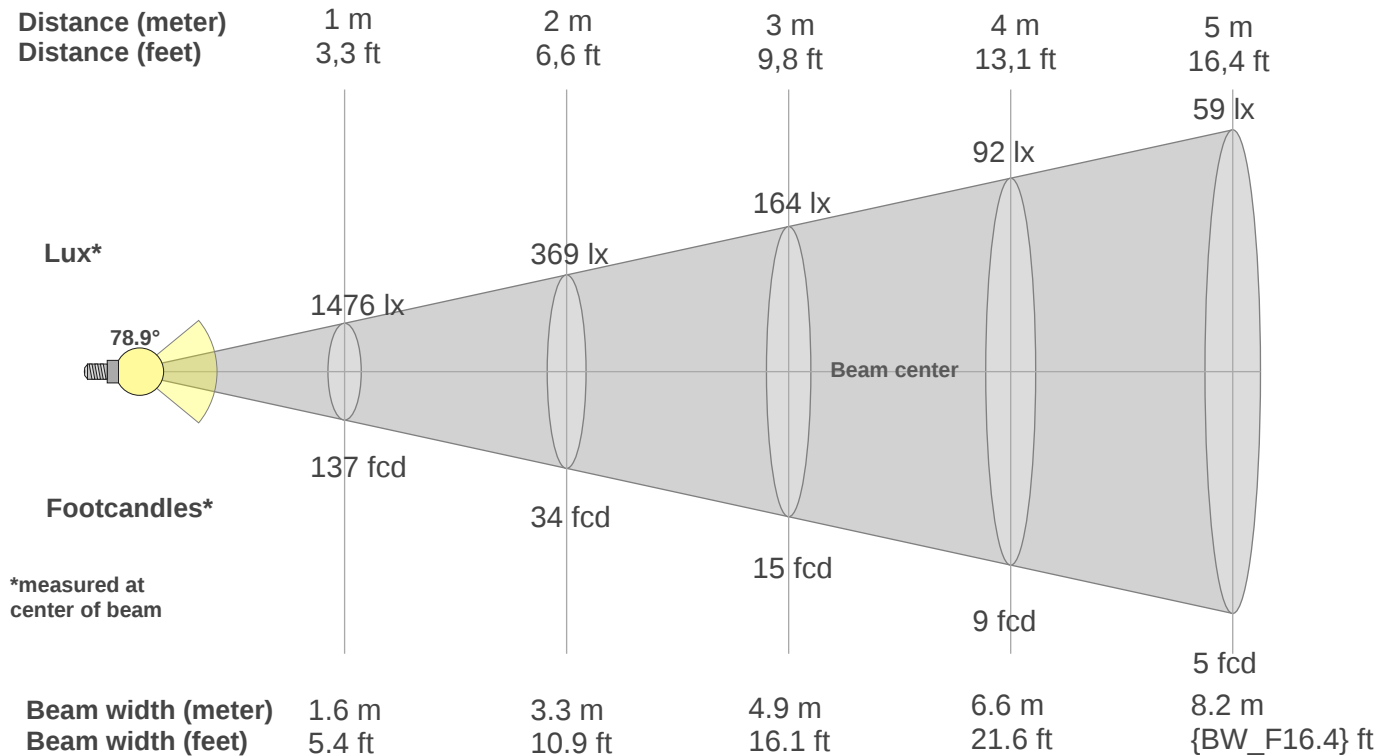
Rg 96.4

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	1%	4%
6	94	3%	-1%
7	92	-3%	-4%
8	90	-6%	-2%
9	88	-7%	5%
10	79	-7%	11%
11	78	2%	15%
12	82	6%	8%
13	86	7%	-5%
14	87	9%	-7%
15	81	0%	-14%
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
1476lx	369lx	164lx	92lx	59lx	41lx	30lx	23lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
137.2fcd	34.3fcd	15.2fcd	8.6fcd	5.5fcd	3.8fcd	2.8fcd	2.1fcd	1.7fcd	1.4fcd	1.1fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd

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°
1476	1466	1434	1382	1310	1221	1115	997	872	749	632	525	425	334	249	171	102	46	9	0
100%	99%	97%	94%	89%	83%	76%	67%	59%	51%	43%	36%	29%	23%	17%	12%	7%	3%	1%	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°
1476	1438	1349	1226	1091	961	847	752	673	604	539	475	408	338	266	194	127	68	19	0
100%	97%	91%	83%	74%	65%	57%	51%	46%	41%	37%	32%	28%	23%	18%	13%	9%	5%	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°
1476	1466	1434	1382	1310	1221	1115	997	872	749	632	525	425	334	249	171	102	46	9	0
100%	99%	97%	94%	89%	83%	76%	67%	59%	51%	43%	36%	29%	23%	17%	12%	7%	3%	1%	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°
1476	1438	1349	1226	1091	961	847	752	673	604	539	475	408	338	266	194	127	68	19	0
100%	97%	91%	83%	74%	65%	57%	51%	46%	41%	37%	32%	28%	23%	18%	13%	9%	5%	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	23.0	24.2	23.2	24.5	24.7	22.6	23.8	22.9	24.1	24.3
	3H	24.3	25.5	24.7	25.8	26.0	24.2	25.4	24.6	25.7	25.9
	4H	24.9	26.0	25.3	26.3	26.5	24.9	26.1	25.3	26.4	26.6
	6H	25.3	26.3	25.6	26.6	27.0	25.6	26.6	25.9	26.9	27.3
	8H	25.5	26.4	25.8	26.7	27.2	25.8	26.8	26.2	27.1	27.5
	12H	25.5	26.5	25.9	26.8	27.3	26.0	27.0	26.4	27.3	27.7
4H	2H	23.5	24.6	23.9	24.9	25.1	23.2	24.3	23.6	24.6	24.9
	3H	25.1	26.0	25.5	26.4	26.8	25.1	26.0	25.5	26.4	26.8
	4H	25.7	26.6	26.1	27.0	27.5	25.9	26.7	26.3	27.2	27.7
	6H	26.2	27.1	26.7	27.4	27.8	26.6	27.5	27.1	27.8	28.2
	8H	26.4	27.2	26.9	27.5	27.9	26.9	27.7	27.4	28.0	28.4
	12H	26.5	27.2	27.0	27.6	28.1	27.2	27.8	27.7	28.2	28.7
8H	4H	26.0	26.7	26.5	27.1	27.5	26.1	26.9	26.6	27.3	27.7
	6H	26.7	27.2	27.2	27.7	28.2	27.1	27.6	27.6	28.1	28.7
	8H	26.9	27.5	27.5	28.0	28.6	27.5	28.0	28.0	28.5	29.2
	12H	27.2	27.6	27.7	28.1	28.7	27.9	28.3	28.4	28.8	29.4
12H	4H	26.0	26.6	26.5	27.1	27.5	26.1	26.8	26.6	27.2	27.7
	6H	26.8	27.3	27.3	27.8	28.4	27.1	27.7	27.7	28.2	28.8
	8H	27.1	27.5	27.6	28.0	28.6	27.6	28.0	28.2	28.5	29.1
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.1					0.1 / -0.1				
S = 1.5H		0.2 / -0.3					0.1 / -0.2				
S = 2.0H		0.6 / -0.6					0.3 / -0.4				
CIE 117-1995. Corrected glare indices referring to 3006 lm total luminous flux											