

Light efficiency:

157 Lumen/Watt**Output: 3999 lm**

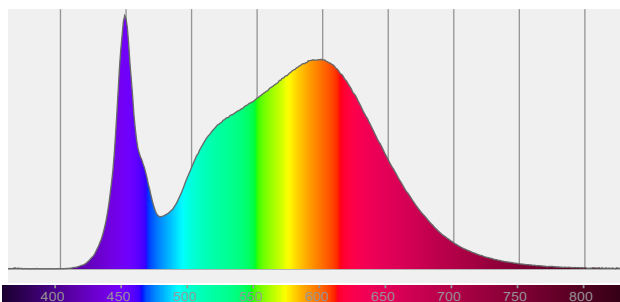
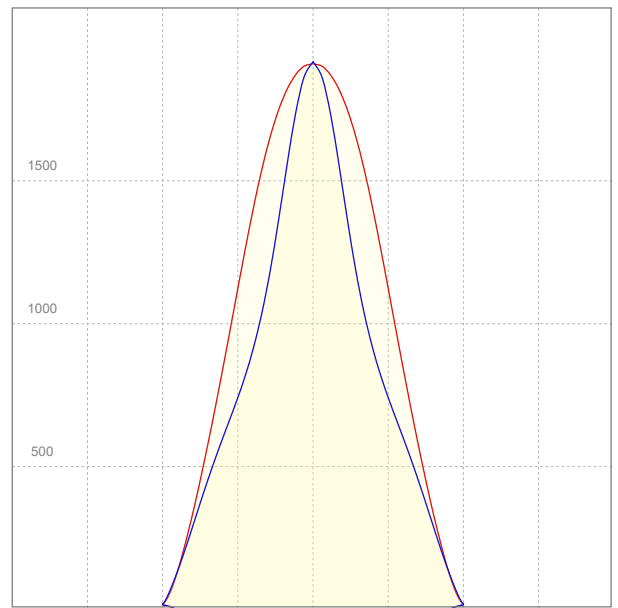
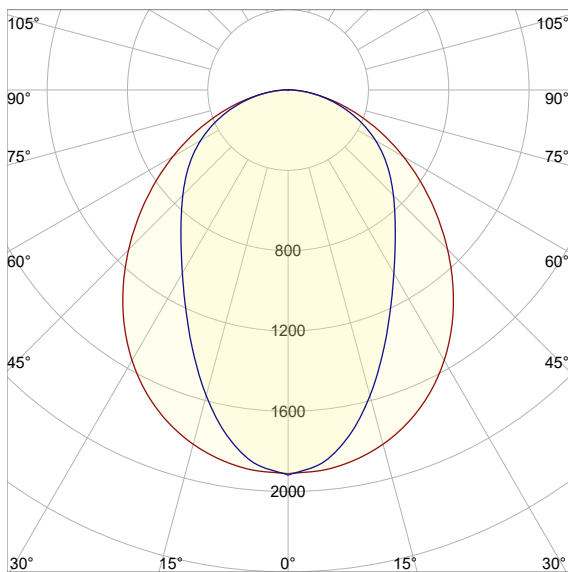
Light quality:

CRI: 82.8**Peak: 1913 cd**

Color temperature:

3964 K**Power: 25.5 W****PF: 0.99**

No photo



Product name:

MICROSquare Medium 70°

Item number:

MSQ140

Configuration:

MSQ140-4FT-4080-WT-DM70-1000LPF

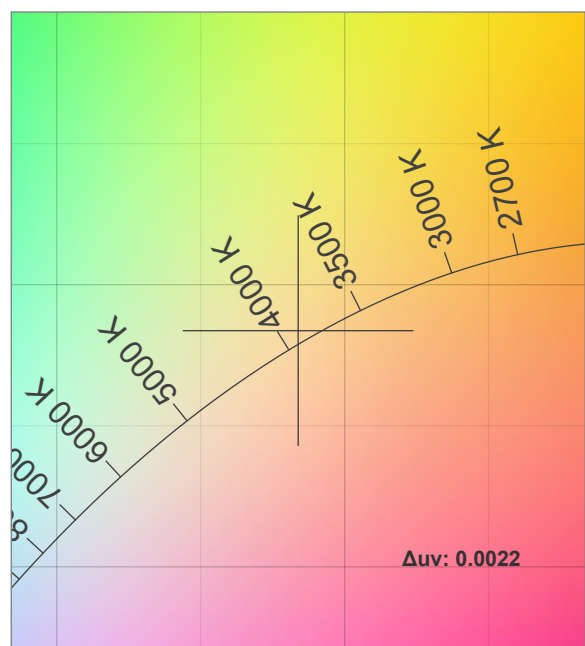
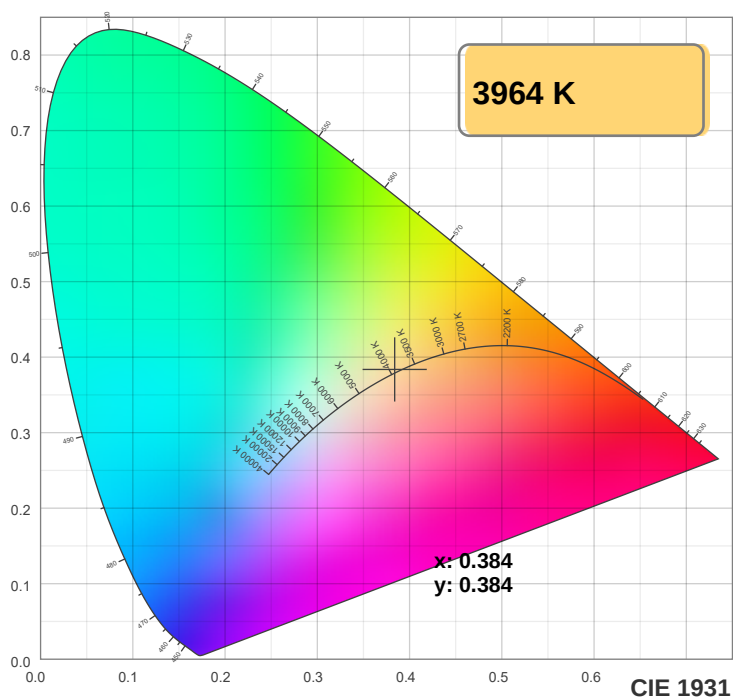
Date and time:

3/9/2021 11:37:30 AM

Description:

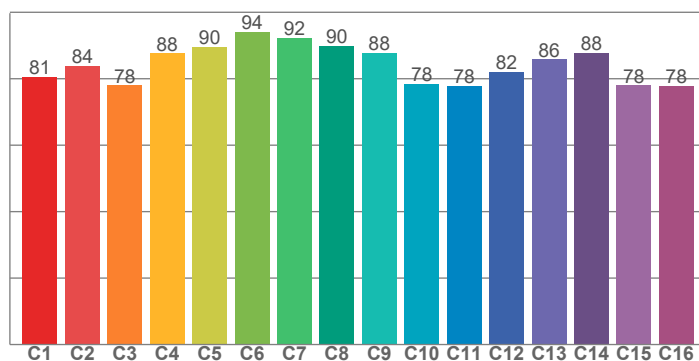
4000K 80 CRI**573 mA DC****Narrow 30% Lens with Lenticular Film**

Color Details

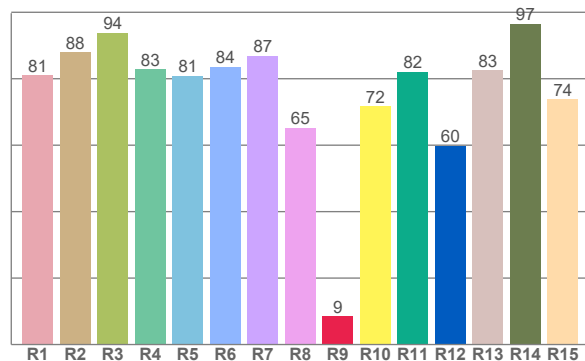


CIE 1931 ZOOM

TM-30: 84.3



CRI: 82.8 (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
81.0	88.0	93.9	82.9	80.9	83.6	86.9	65.3	8.5	71.8	82.1	59.9	82.6	96.6	73.9

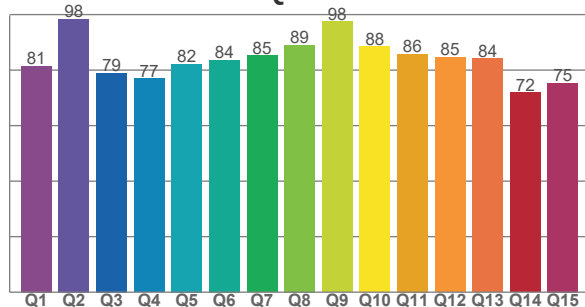
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
80.6	83.9	78.0	87.6	89.7	94.0	92.3	90.0	87.8	78.5	77.8	82.1	85.9	87.7	78.0	77.8

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
81.5	98.4	78.9	77.0	82.2	83.6	85.1	89.1	97.5	88.4	85.8	84.6	84.1	71.9	75.3

CQS: 82.7



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
3964 K	82.8	8.5	84.3	96.1	82.7	0.384	0.384	0.225	0.337	0.0022

TM-30 Details

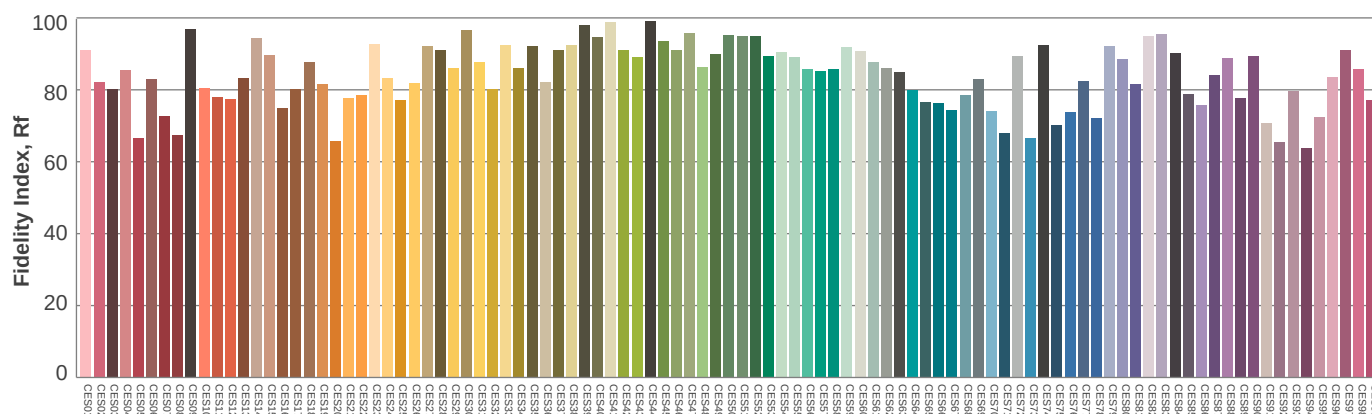
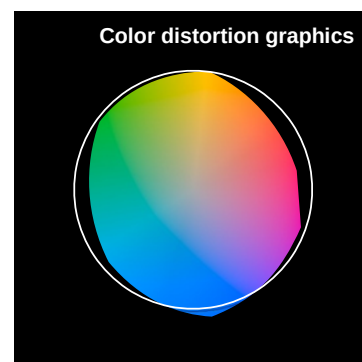
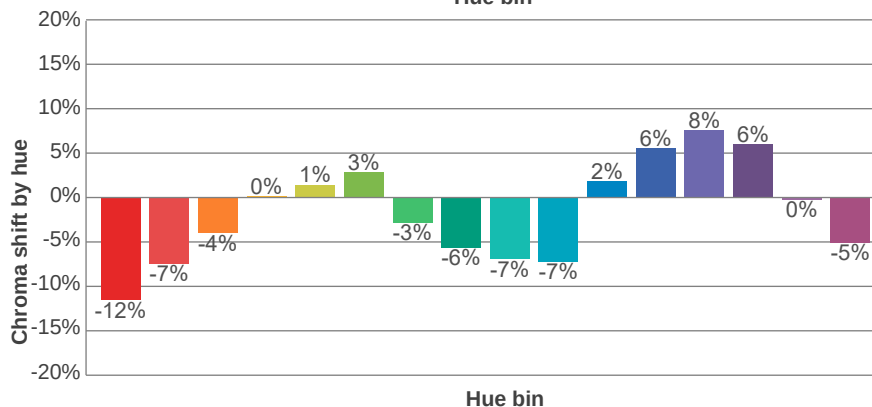
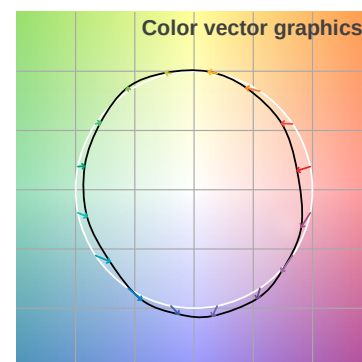
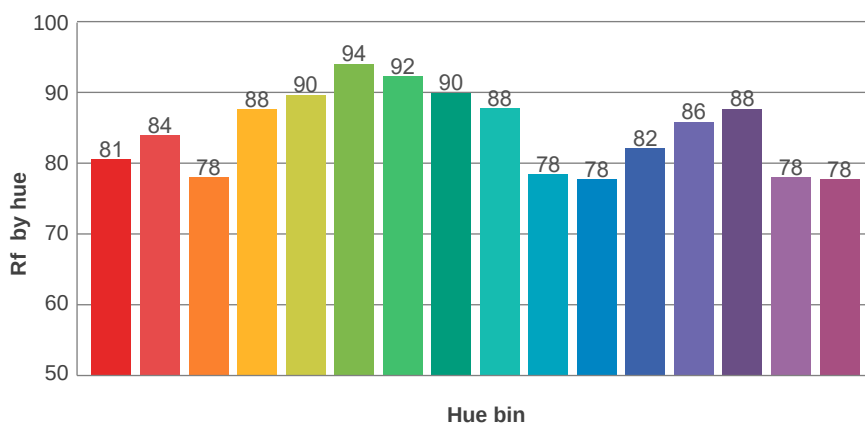
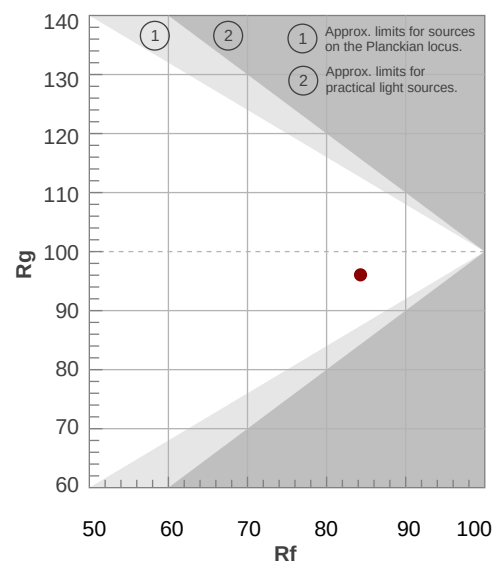
Rf 84.3

Fidelity index Rf

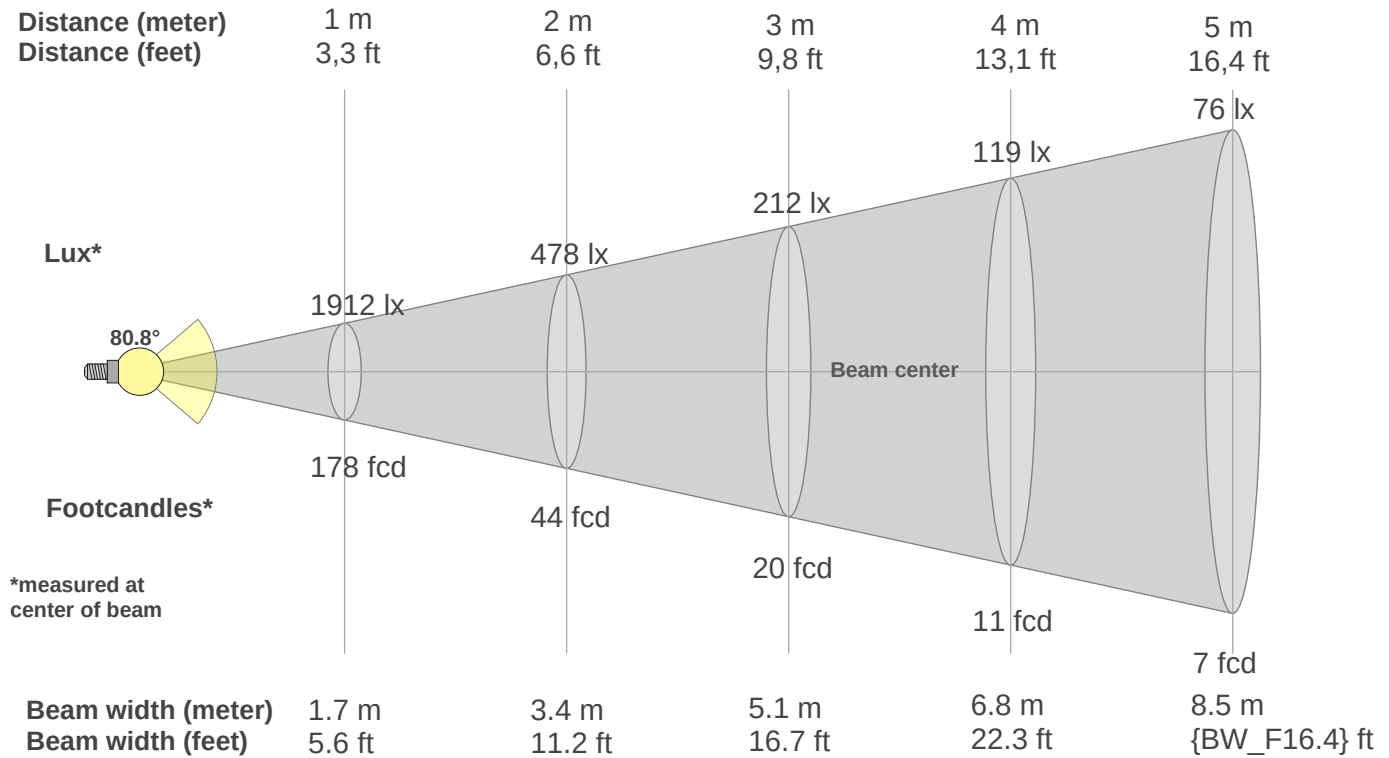
Rg 96.1

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	81	-12%	-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	78	-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
1912lx	478lx	212lx	119lx	76lx	53lx	39lx	30lx	24lx	19lx	16lx	13lx	11lx	10lx	8lx	7lx	7lx	6lx	5lx	5lx
177.6fcd	44.4fcd	19.7fcd	11.1fcd	7.1fcd	4.9fcd	3.6fcd	2.8fcd	2.2fcd	1.8fcd	1.5fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd

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°
1912	1901	1873	1825	1756	1665	1553	1423	1277	1122	966	812	662	521	386	264	155	68	15	0
100%	99%	98%	95%	92%	87%	81%	74%	67%	59%	51%	42%	35%	27%	20%	14%	8%	4%	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°
1912	1865	1745	1574	1385	1206	1055	931	829	742	662	584	503	417	327	237	152	75	16	0
100%	98%	91%	82%	72%	63%	55%	49%	43%	39%	35%	31%	26%	22%	17%	12%	8%	4%	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°
1912	1901	1873	1825	1756	1665	1553	1423	1277	1122	966	812	662	521	386	264	155	68	15	0
100%	99%	98%	95%	92%	87%	81%	74%	67%	59%	51%	42%	35%	27%	20%	14%	8%	4%	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°
1912	1865	1745	1574	1385	1206	1055	931	829	742	662	584	503	417	327	237	152	75	16	0
100%	98%	91%	82%	72%	63%	55%	49%	43%	39%	35%	31%	26%	22%	17%	12%	8%	4%	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	24.7	25.8	24.9	26.1	26.3	23.2	24.4	23.5	24.7	24.9
	3H	26.0	27.2	26.4	27.5	27.7	24.8	26.0	25.2	26.3	26.5
	4H	26.6	27.7	27.0	28.0	28.3	25.5	26.6	25.9	26.9	27.2
	6H	27.1	28.1	27.4	28.4	28.8	26.1	27.1	26.4	27.4	27.8
	8H	27.2	28.2	27.6	28.5	28.9	26.3	27.3	26.7	27.6	28.0
	12H	27.3	28.2	27.7	28.6	29.0	26.5	27.4	26.8	27.7	28.2
4H	2H	25.0	26.1	25.4	26.4	26.7	23.9	25.0	24.3	25.3	25.6
	3H	26.7	27.6	27.0	28.0	28.4	25.7	26.7	26.1	27.0	27.5
	4H	27.3	28.2	27.8	28.6	29.1	26.5	27.4	26.9	27.8	28.3
	6H	27.9	28.7	28.4	29.1	29.4	27.2	28.0	27.7	28.4	28.7
	8H	28.1	28.8	28.6	29.2	29.6	27.4	28.2	27.9	28.6	29.0
	12H	28.2	28.8	28.7	29.3	29.7	27.6	28.3	28.1	28.7	29.2
8H	4H	27.5	28.3	28.0	28.7	29.0	26.8	27.6	27.3	27.9	28.3
	6H	28.2	28.8	28.7	29.3	29.8	27.7	28.2	28.2	28.7	29.3
	8H	28.5	29.0	29.0	29.5	30.2	28.0	28.6	28.6	29.1	29.7
	12H	28.7	29.2	29.3	29.7	30.3	28.3	28.8	28.9	29.3	29.9
12H	4H	27.5	28.2	28.0	28.6	29.1	26.8	27.5	27.3	27.9	28.4
	6H	28.3	28.8	28.8	29.3	30.0	27.7	28.3	28.3	28.8	29.4
	8H	28.6	29.0	29.2	29.5	30.1	28.2	28.6	28.7	29.1	29.7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.0 / -0.1					0.1 / -0.1				
S = 1.5H		0.3 / -0.3					0.1 / -0.2				
S = 2.0H		0.7 / -0.7					0.3 / -0.4				
CIE 117-1995. Corrected glare indices referring to 3999 lm total luminous flux											