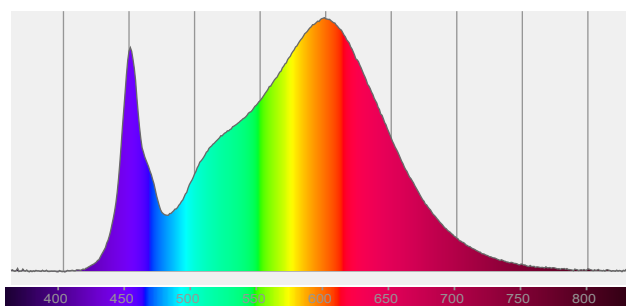
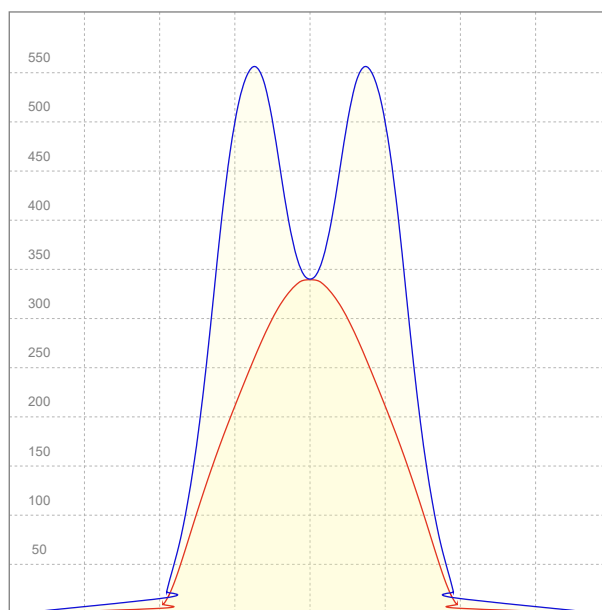
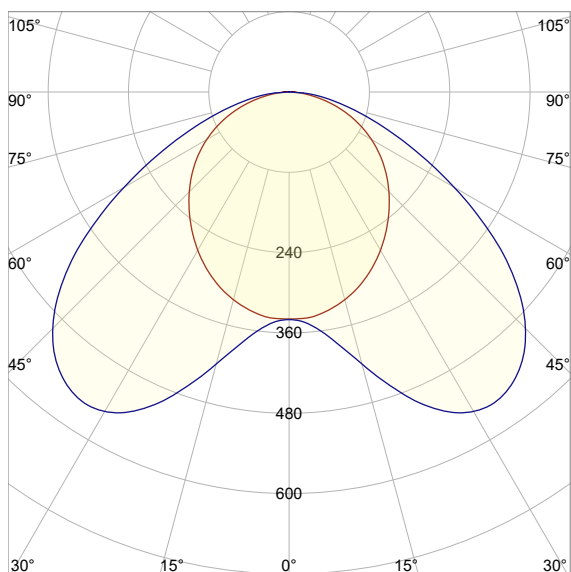


NANOSquare Double Asymmetric 70°

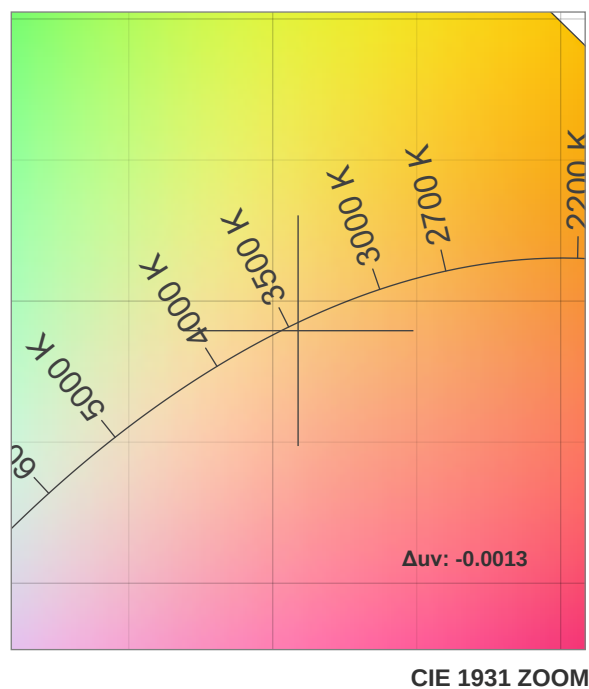
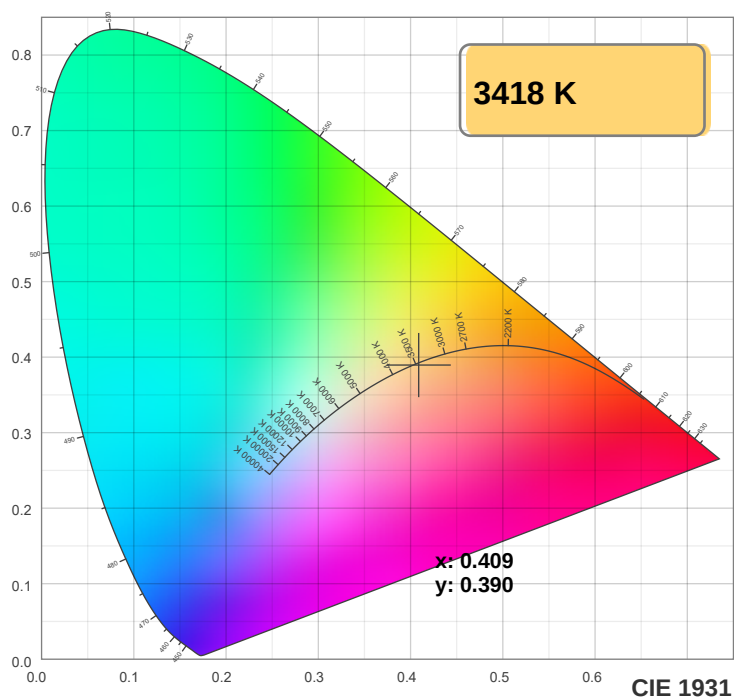
NSQ95

Light efficiency:**126 Lumen/Watt****Light quality:****CRI: 82.5****Color temperature:****3418 K****Output: 1445 lm****Peak: 556 cd****Power: 11.5 W****PF: 1.0**

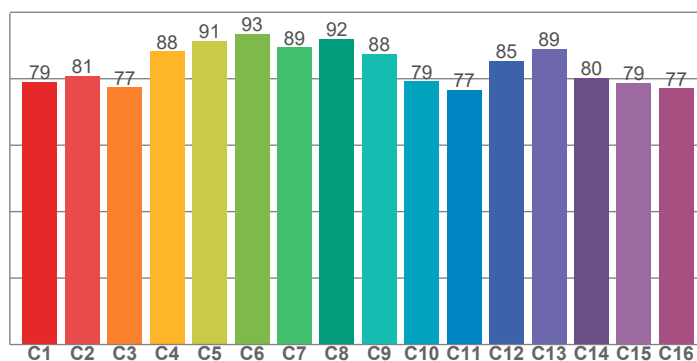
No photo

**Product name:****NANOSquare Double Asymmetric 70°****Item number:****NSQ95****Configuration:****NSQ95-4FT-3580-WT-DDA70-350LPF****Date and time:****7/30/2021 11:54:19 AM****Description:****Power Supply @ 320mA**

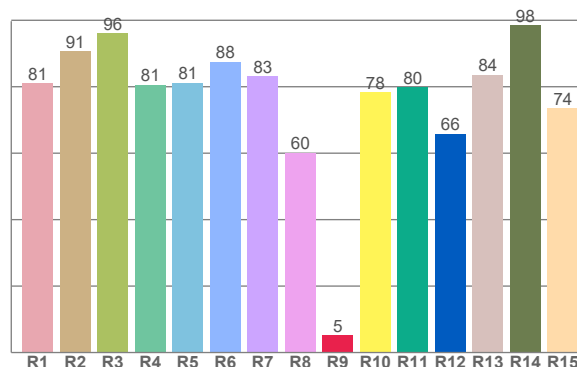
Color Details



TM-30: 83.8



CRI: 82.5 (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	90.7	96.0	80.6	81.2	87.5	83.2	60.1	5.2	78.4	79.9	65.9	83.6	98.4	73.5

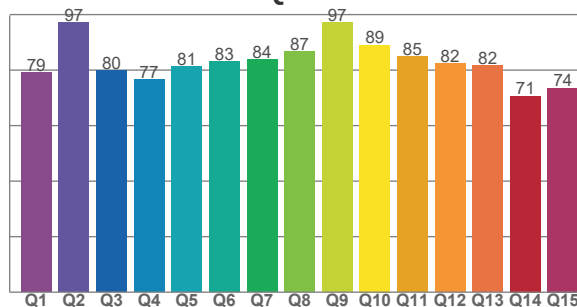
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.1	80.9	77.4	88.2	91.4	93.5	89.5	92.0	87.5	79.2	76.7	85.4	88.9	80.2	78.8	77.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.2	97.2	79.8	76.5	81.2	83.0	83.7	86.7	97.0	89.0	84.9	82.3	81.6	70.6	73.6

CQS: 81.6



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 deviation from black body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3418 K	82.5	5.2	83.8	95.8	81.6	0.409	0.390	0.238	0.341	-0.0013

TM-30 Details

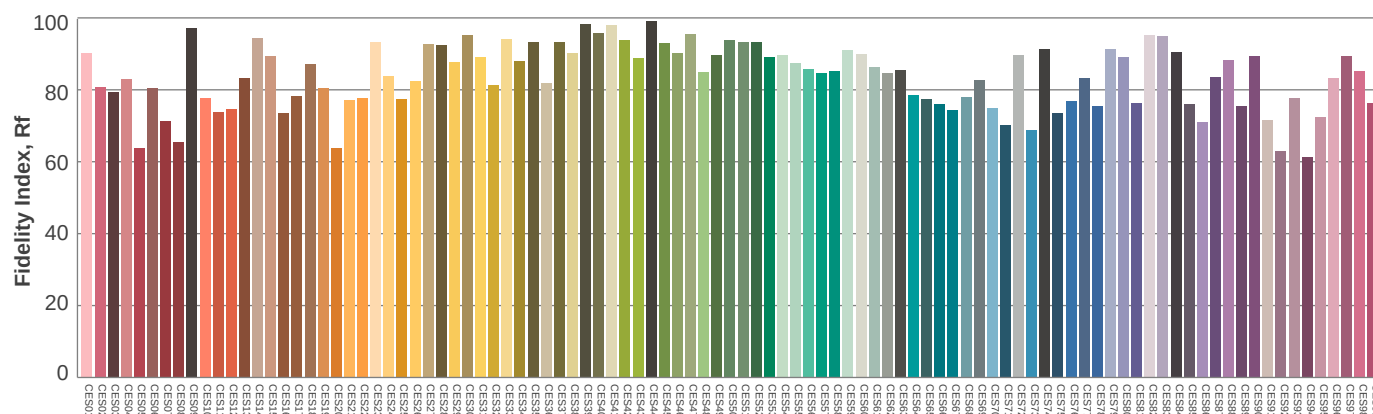
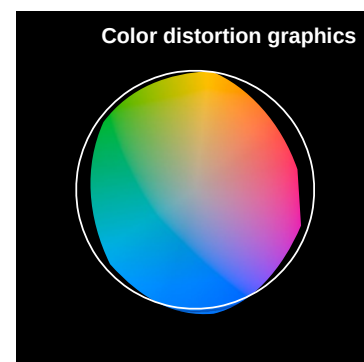
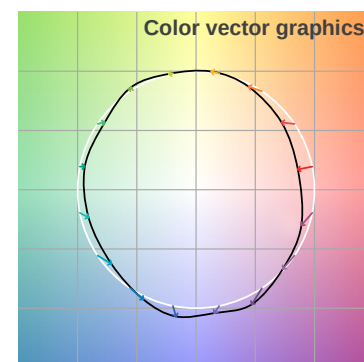
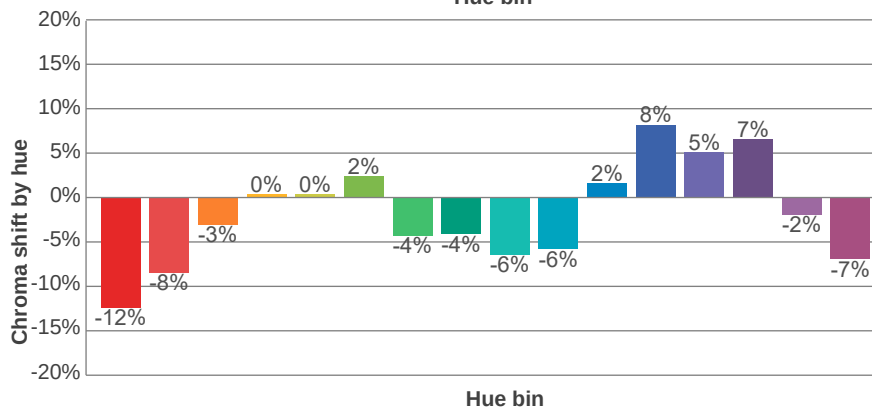
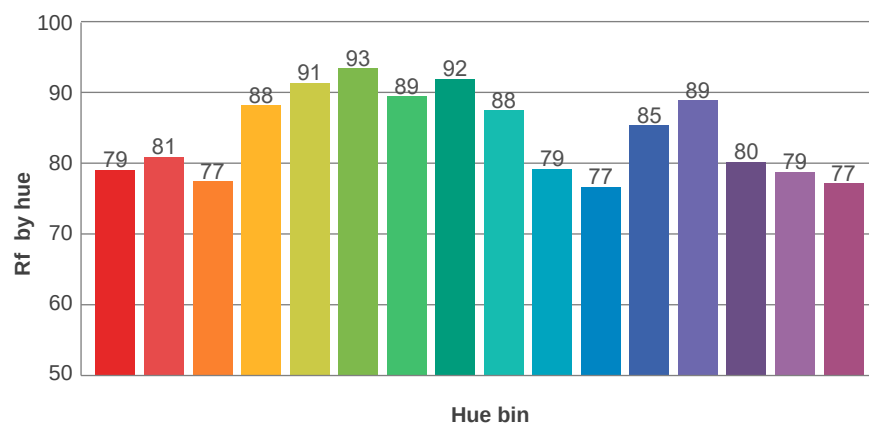
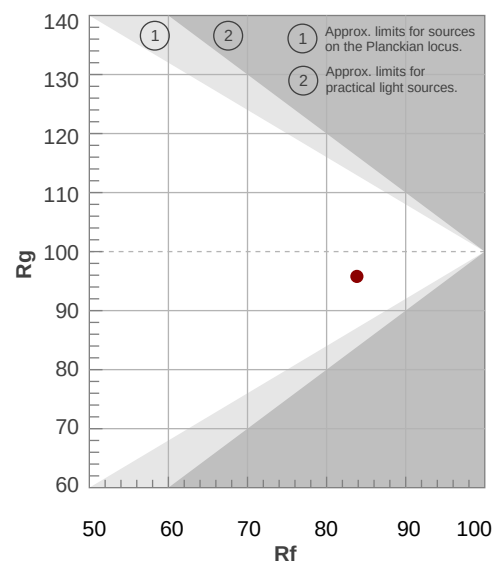
Rf 83.8

Fidelity index Rf

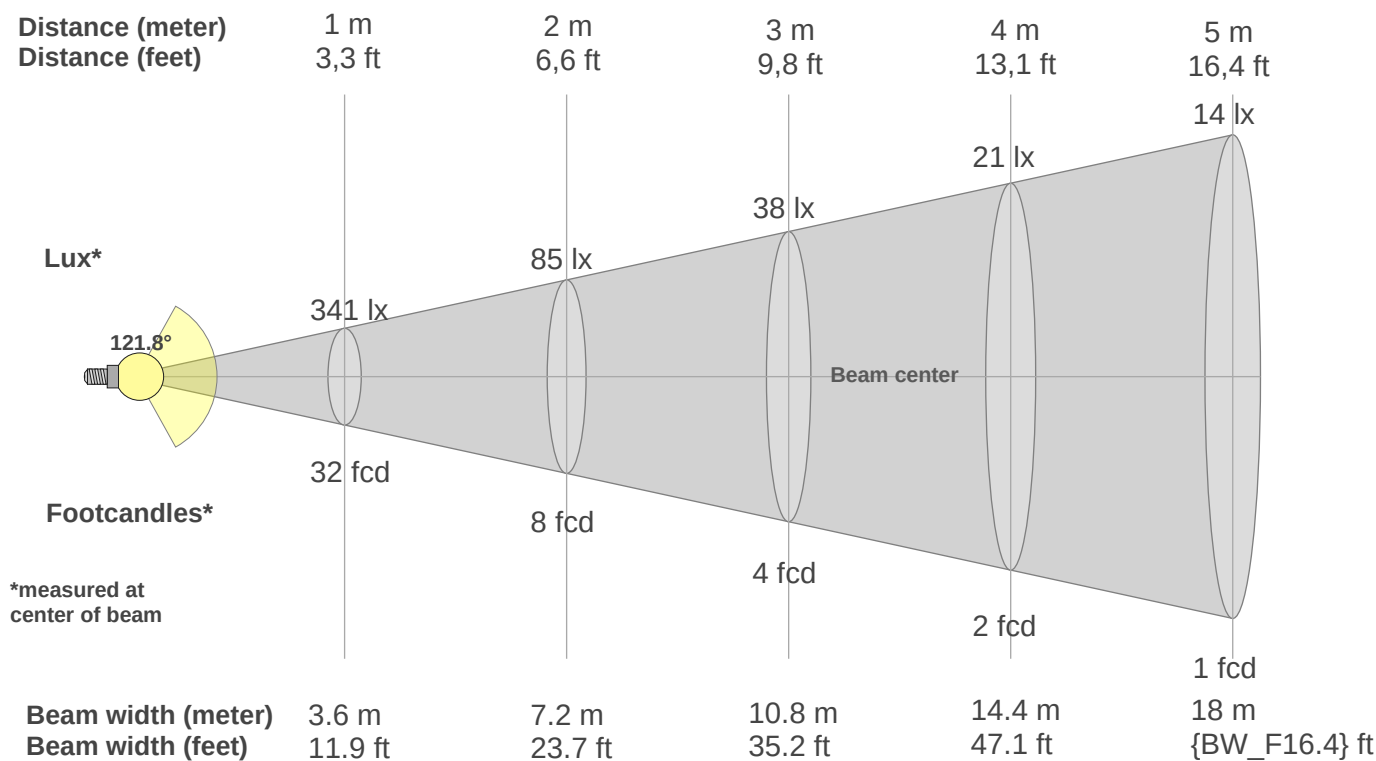
Rg 95.8

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	79	-12%	0%
2	81	-8%	7%
3	77	-3%	11%
4	88	0%	7%
5	91	0%	4%
6	93	2%	-2%
7	89	-4%	-4%
8	92	-4%	-1%
9	88	-6%	5%
10	79	-6%	12%
11	77	2%	14%
12	85	8%	4%
13	89	5%	-5%
14	80	7%	-15%
15	79	-2%	-15%
16	77	-7%	-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
341lx	85lx	38lx	21lx	14lx	9lx	7lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
31.7fcd	7.9fcd	3.5fcd	2fcd	1.3fcd	0.9fcd	0.6fcd	0.5fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	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°
341	338	331	321	308	291	273	253	232	211	189	166	142	117	90	63	37	17	5	5
100%	99%	97%	94%	90%	85%	80%	74%	68%	62%	55%	49%	42%	34%	26%	18%	11%	5%	2%	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°
341	351	378	422	474	521	548	552	534	497	440	367	285	210	147	97	59	27	15	14
100%	103%	111%	124%	139%	153%	161%	162%	157%	146%	129%	108%	84%	62%	43%	28%	17%	8%	5%	4%

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°
341	338	331	321	308	291	273	253	232	211	189	166	142	117	90	63	37	17	5	5
100%	99%	97%	94%	90%	85%	80%	74%	68%	62%	55%	49%	42%	34%	26%	18%	11%	5%	2%	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°
341	351	378	422	474	521	548	552	534	497	440	367	285	210	147	97	59	27	15	14
100%	103%	111%	124%	139%	153%	161%	162%	157%	146%	129%	108%	84%	62%	43%	28%	17%	8%	5%	4%

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	21.3	22.5	21.5	22.9	23.1	24.9	26.2	25.2	26.5	26.7
	3H	22.5	23.8	22.9	24.1	24.3	26.0	27.3	26.4	27.6	27.8
	4H	23.0	24.3	23.4	24.6	24.8	26.4	27.7	26.9	28.0	28.2
	6H	23.5	24.6	23.8	24.8	25.2	26.8	27.9	27.1	28.2	28.6
	8H	23.6	24.6	23.9	24.9	25.4	26.9	28.0	27.3	28.3	28.7
	12H	23.6	24.7	24.0	25.0	25.5	27.0	28.0	27.3	28.3	28.8
4H	2H	22.5	23.8	22.9	24.0	24.3	25.2	26.5	25.6	26.8	27.0
	3H	24.0	25.0	24.3	25.3	25.8	26.7	27.7	27.1	28.1	28.5
	4H	24.5	25.4	24.9	25.8	26.4	27.2	28.1	27.7	28.6	29.1
	6H	24.9	25.8	25.4	26.2	26.5	27.6	28.5	28.1	28.9	29.3
	8H	25.1	25.9	25.6	26.2	26.6	27.8	28.6	28.3	29.0	29.4
	12H	25.1	25.8	25.6	26.3	26.7	27.9	28.6	28.4	29.0	29.5
8H	4H	24.9	25.7	25.4	26.1	26.5	27.4	28.2	27.9	28.5	28.9
	6H	25.5	26.1	26.0	26.6	27.2	27.9	28.6	28.4	29.0	29.6
	8H	25.8	26.3	26.3	26.8	27.5	28.2	28.7	28.7	29.2	29.9
	12H	25.9	26.4	26.5	26.9	27.5	28.4	28.8	28.9	29.3	29.9
12H	4H	25.0	25.7	25.5	26.1	26.6	27.3	28.0	27.8	28.4	28.9
	6H	25.6	26.2	26.1	26.7	27.3	28.0	28.5	28.5	29.0	29.7
	8H	25.9	26.4	26.5	26.9	27.5	28.2	28.7	28.8	29.2	29.8
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.2 / -0.2					0.1 / -0.1				
S = 1.5H		0.3 / -0.4					0.2 / -0.4				
S = 2.0H		0.6 / -0.8					0.7 / -0.8				
CIE 117-1995. Corrected glare indices referring to 1445 lm total luminous flux											