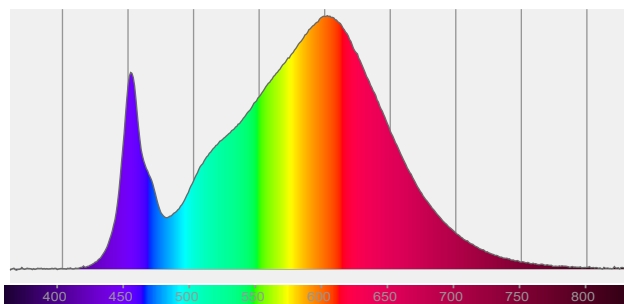
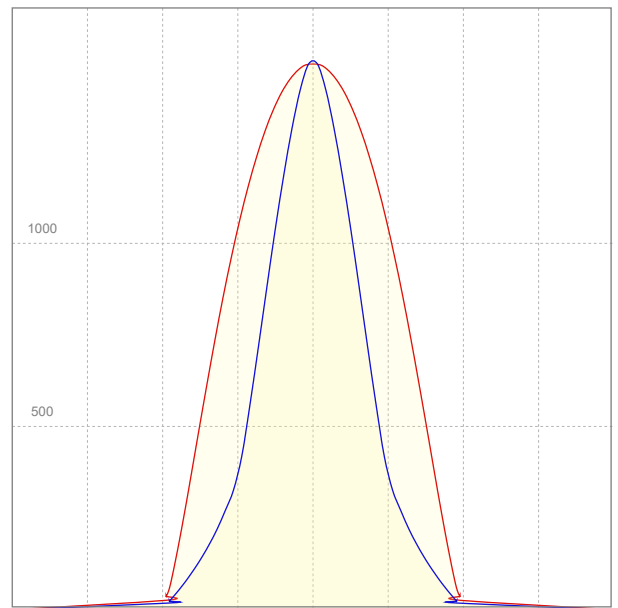
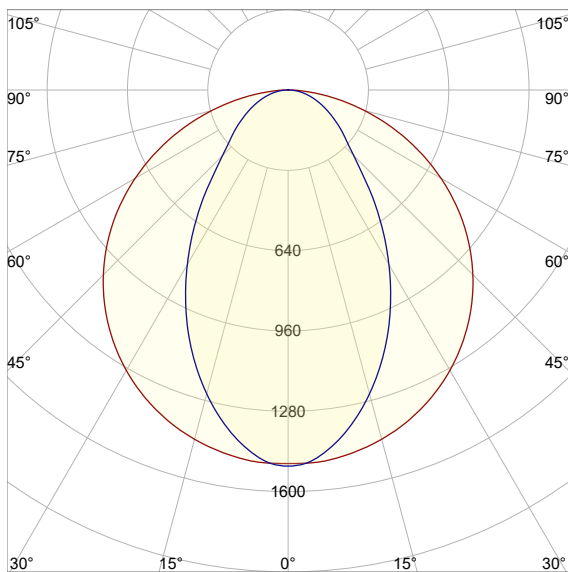


NANOBeam Regressed Medium 70°

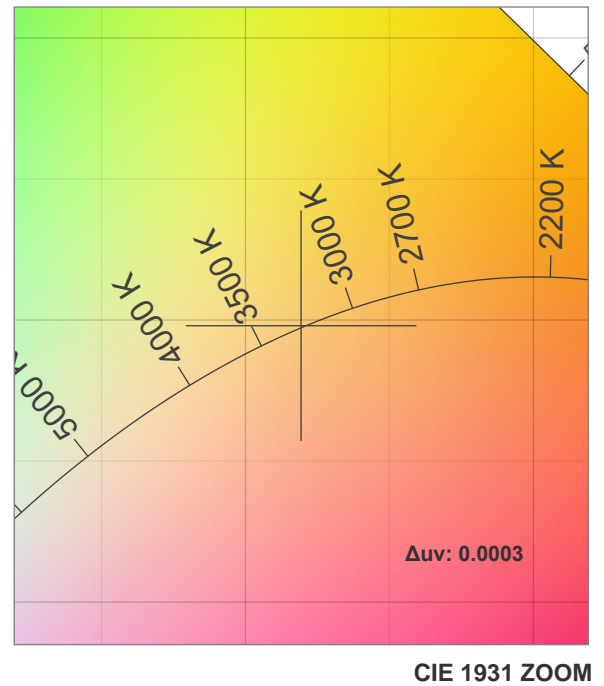
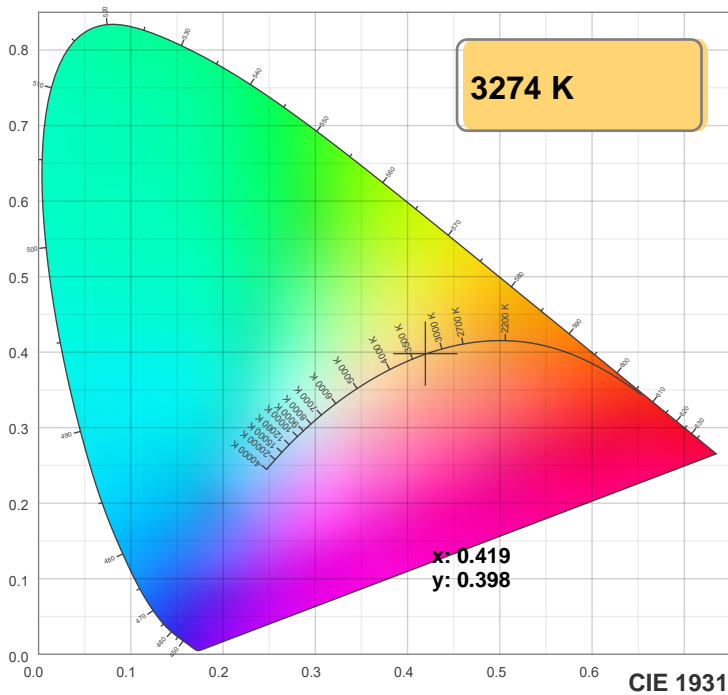
NBE9545

Light efficiency:**104 Lumen/Watt****Light quality:****CRI: 82.1****Color temperature:****3274 K****Output: 2948 lm****Peak: 1494 cd****Power: 28.4 W****PF: 1.0**

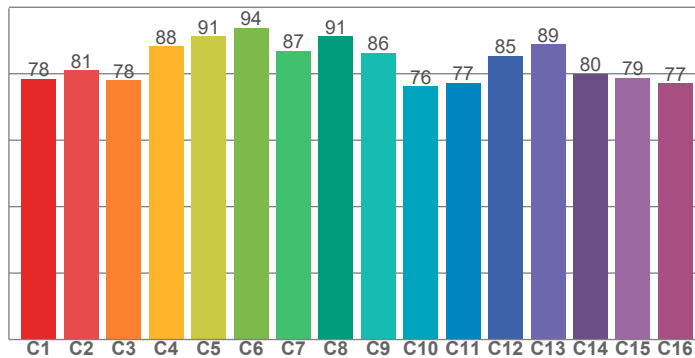
No photo

**Product name:****NANOBeam Regressed Medium 70°****Item number:****NBE9545****Configuration:****NBE9545-4FT-3580-WT-DRM70-750LPF****Date and time:****8/3/2021 4:20:50 PM****Description:****Power Supply @ 760mA**

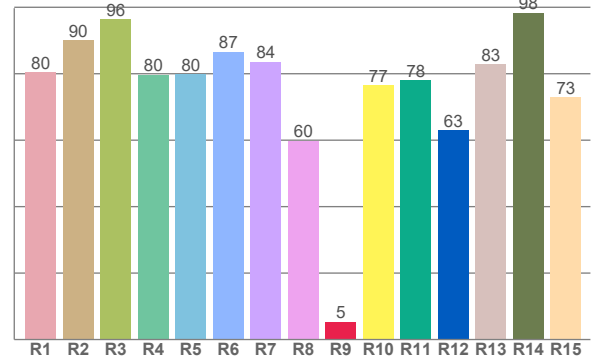
Color Details



TM-30: 83.5



CRI: 82.1 (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
80.4	90.1	96.4	79.7	79.9	86.7	83.6	59.9	5.4	76.6	78.0	63.0	82.8	98.4	73.0

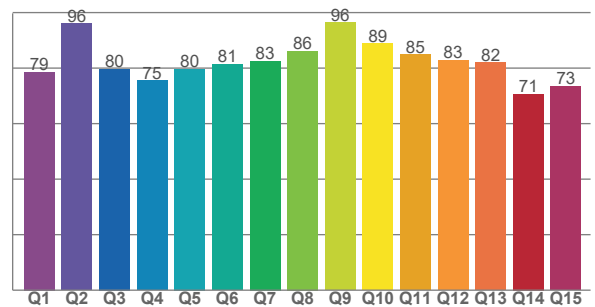
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.5	81.1	78.0	88.3	91.2	93.9	86.8	91.3	86.3	76.3	77.2	85.4	88.8	80.0	78.8	77.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.6	96.0	79.7	75.5	79.7	81.4	82.5	86.2	96.4	88.9	84.9	82.8	81.9	70.6	73.4

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
3274 K	82.1	5.4	83.5	95.2	81.1	0.419	0.398	0.242	0.344	0.0003

TM-30 Details

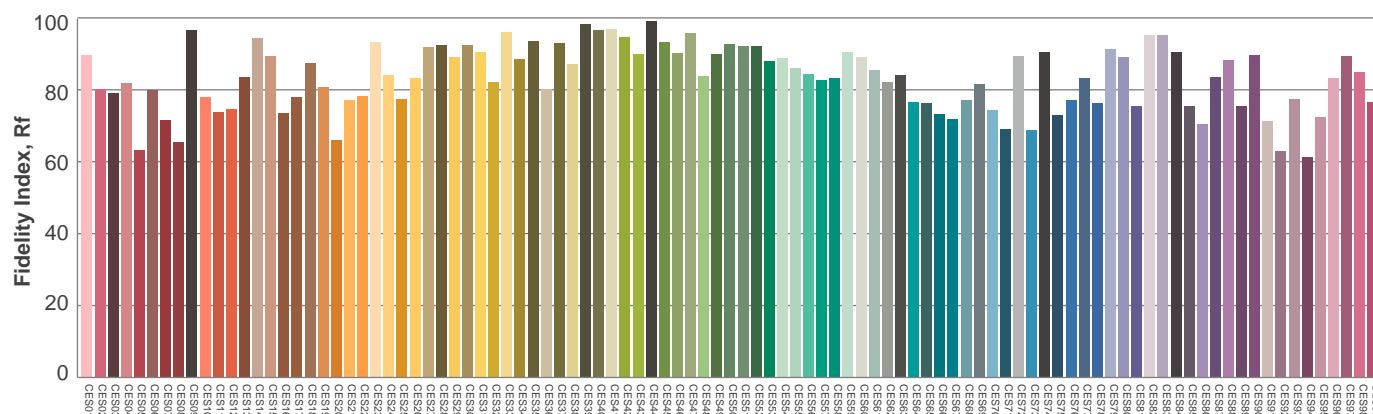
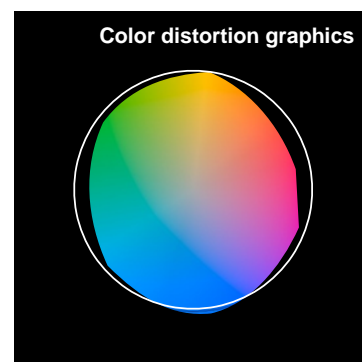
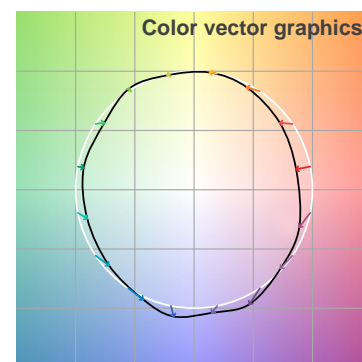
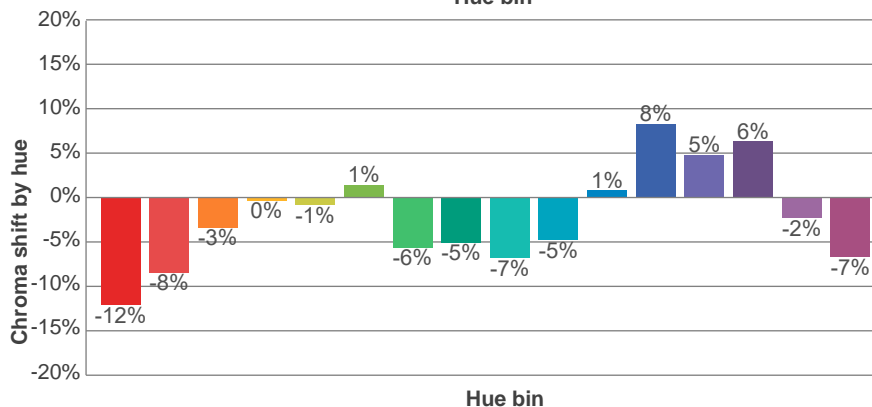
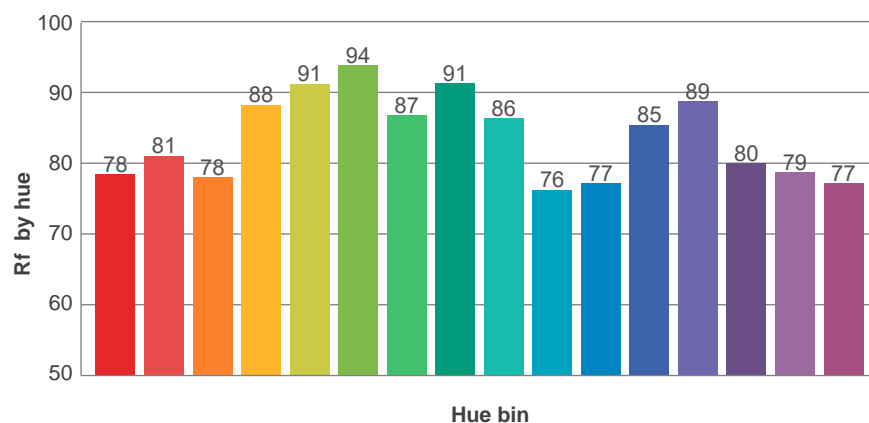
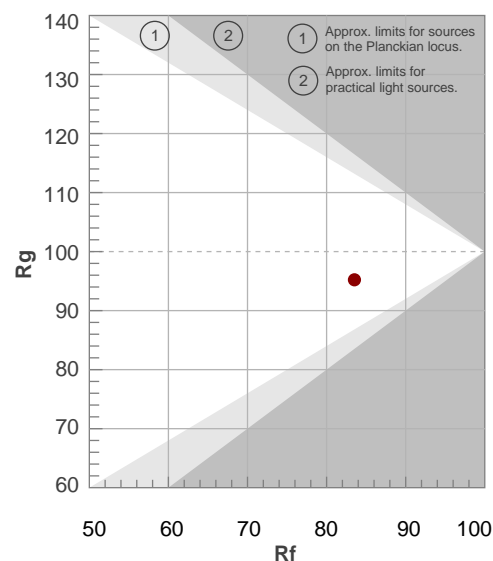
Rf 83.5

Fidelity index Rf

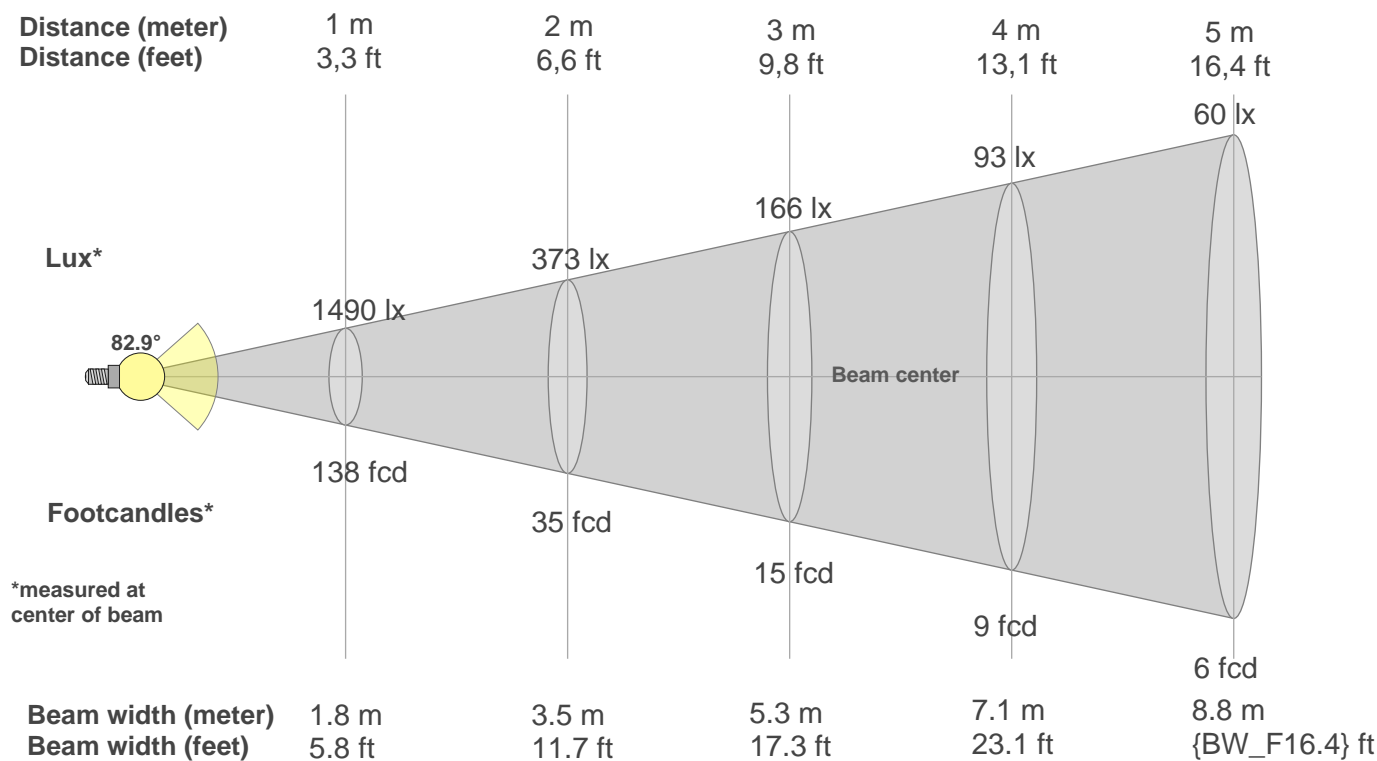
Rg 95.2

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	78	-12%	0%
2	81	-8%	7%
3	78	-3%	11%
4	88	0%	6%
5	91	-1%	3%
6	94	1%	-2%
7	87	-6%	-5%
8	91	-5%	0%
9	86	-7%	6%
10	76	-5%	13%
11	77	1%	16%
12	85	8%	4%
13	89	5%	-6%
14	80	6%	-15%
15	79	-2%	-15%
16	77	-7%	-14%



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
1490lx	373lx	166lx	93lx	60lx	41lx	30lx	23lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx	4lx
138.5fcd	34.6fcd	15.4fcd	8.7fcd	5.5fcd	3.8fcd	2.8fcd	2.2fcd	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°
1490	1484	1468	1439	1400	1350	1288	1216	1133	1040	937	824	703	575	444	313	187	76	25	23
100%	100%	98%	97%	94%	91%	86%	82%	76%	70%	63%	55%	47%	39%	30%	21%	13%	5%	2%	2%

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°
1490	1456	1368	1251	1113	962	803	644	494	374	299	244	196	155	118	85	55	27	17	16
100%	98%	92%	84%	75%	65%	54%	43%	33%	25%	20%	16%	13%	10%	8%	6%	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°
1490	1484	1468	1439	1400	1350	1288	1216	1133	1040	937	824	703	575	444	313	187	76	25	23
100%	100%	98%	97%	94%	91%	86%	82%	76%	70%	63%	55%	47%	39%	30%	21%	13%	5%	2%	2%

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°
1490	1456	1368	1251	1113	962	803	644	494	374	299	244	196	155	118	85	55	27	17	16
100%	98%	92%	84%	75%	65%	54%	43%	33%	25%	20%	16%	13%	10%	8%	6%	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	26.5	27.6	26.7	27.9	28.1	21.3	22.4	21.5	22.7	22.9
	3H	28.1	29.3	28.6	29.6	29.8	22.2	23.3	22.6	23.6	23.8
	4H	28.9	30.0	29.3	30.3	30.6	22.6	23.8	23.1	24.0	24.3
	6H	29.6	30.6	29.9	30.9	31.2	23.1	24.1	23.4	24.3	24.7
	8H	29.8	30.8	30.2	31.1	31.5	23.2	24.2	23.6	24.5	24.9
	12H	29.9	30.8	30.3	31.2	31.6	23.3	24.2	23.7	24.6	25.0
4H	2H	26.4	27.5	26.8	27.8	28.0	22.1	23.2	22.5	23.4	23.7
	3H	28.3	29.2	28.7	29.6	30.0	23.2	24.1	23.6	24.5	24.9
	4H	29.1	29.9	29.6	30.4	30.9	23.7	24.5	24.2	25.0	25.5
	6H	29.9	30.7	30.4	31.0	31.4	24.2	25.0	24.7	25.4	25.7
	8H	30.2	30.9	30.7	31.3	31.7	24.4	25.1	24.9	25.5	25.9
	12H	30.4	31.0	30.9	31.4	31.9	24.6	25.2	25.1	25.6	26.1
8H	4H	29.1	29.8	29.6	30.2	30.6	24.1	24.8	24.6	25.2	25.6
	6H	29.9	30.5	30.4	31.0	31.5	24.7	25.3	25.2	25.8	26.3
	8H	30.3	30.8	30.8	31.3	32.0	25.1	25.5	25.6	26.0	26.7
	12H	30.6	31.0	31.2	31.5	32.1	25.3	25.7	25.9	26.2	26.8
12H	4H	29.1	29.7	29.6	30.1	30.6	24.1	24.8	24.6	25.2	25.6
	6H	30.0	30.4	30.5	31.0	31.6	24.9	25.3	25.4	25.9	26.5
	8H	30.3	30.7	30.9	31.2	31.8	25.2	25.6	25.8	26.1	26.7
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.2					0.3 / -0.3				
S = 1.5H		0.6 / -0.7					0.4 / -0.6				
S = 2.0H		1.3 / -1.3					0.7 / -0.9				
CIE 117-1995. Corrected glare indices referring to 2948 lm total luminous flux											