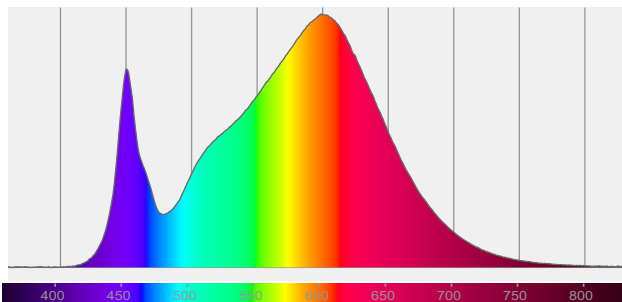
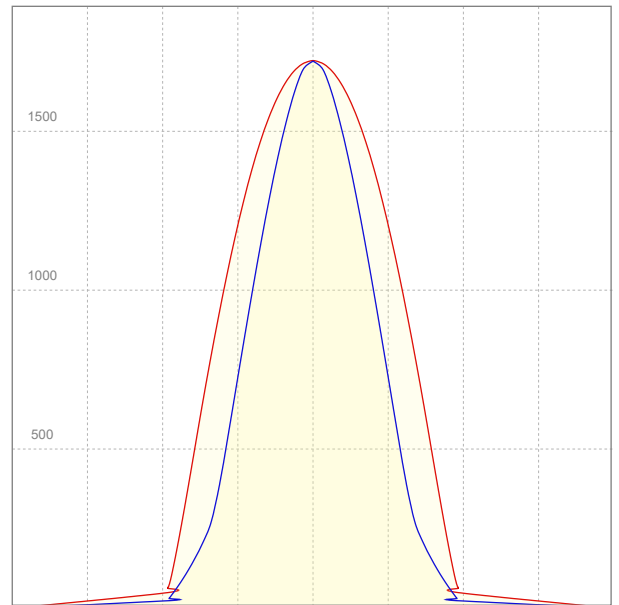
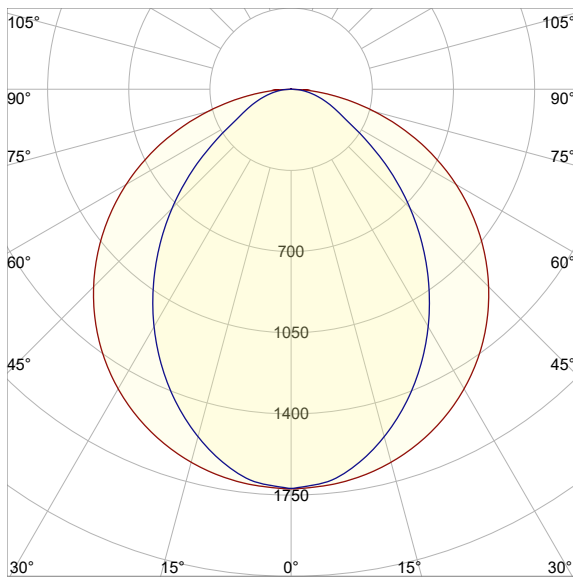


NANOBeam Regressed Medium 80°NBE9560

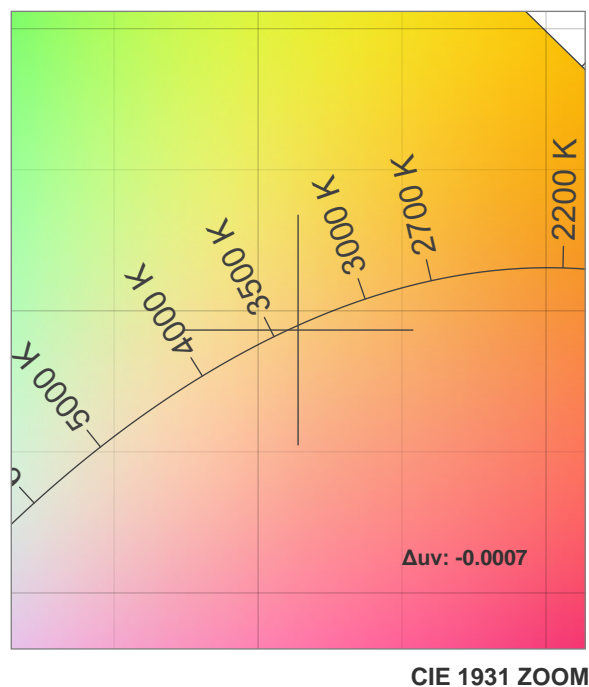
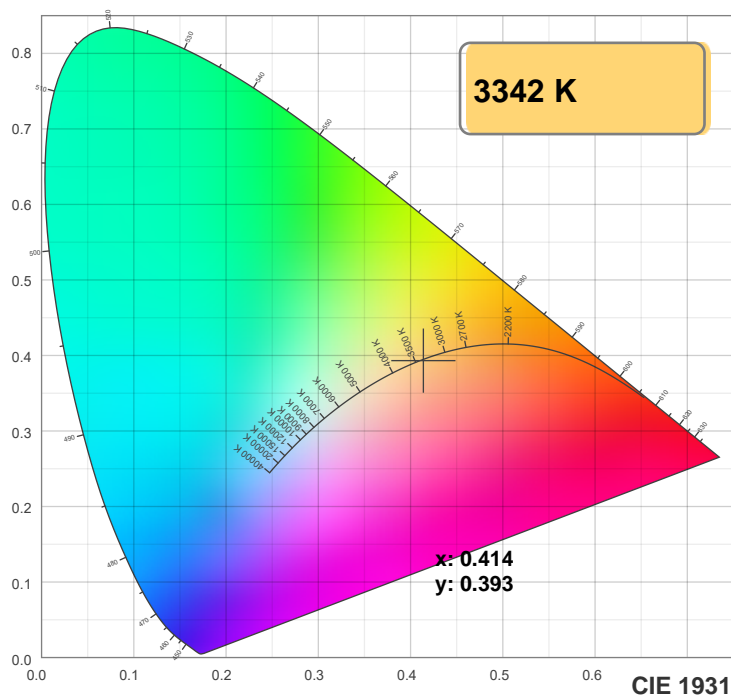
Light efficiency:**114 Lumen/Watt****Light quality:****CRI: 82.1****Color temperature:****3342 K****Output: 3993 lm****Peak: 1721 cd****Power: 35.0 W****PF: 1.0**

No photo

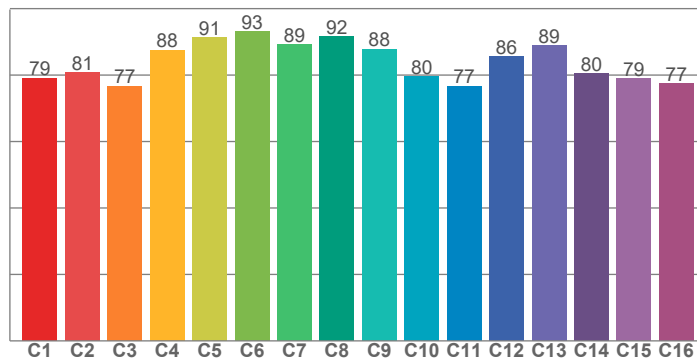
**Product name:****NANOBeam Regressed Medium 80°****Item number:****NBE9560****Configuration:****NBE9560-4FT-3580-WT-DRM80-1000LPF****Date and time:****8/3/2021 3:01:13 PM****Description:****Power Supply @ 920mA**

NANOBeam Regressed Medium 80°NBE9560

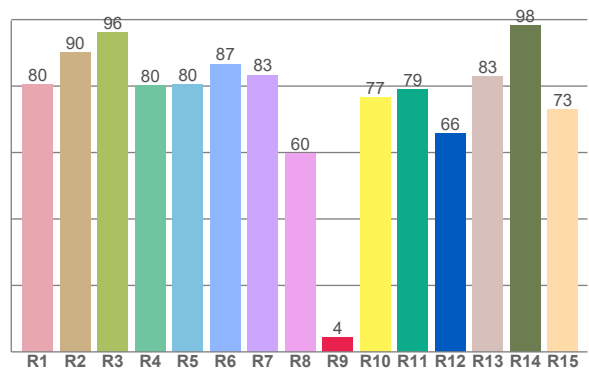
Color Details



TM-30: 83.8



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	90.0	96.2	80.3	80.4	86.7	83.4	59.8	4.5	76.6	79.0	65.9	82.8	98.3	73.0

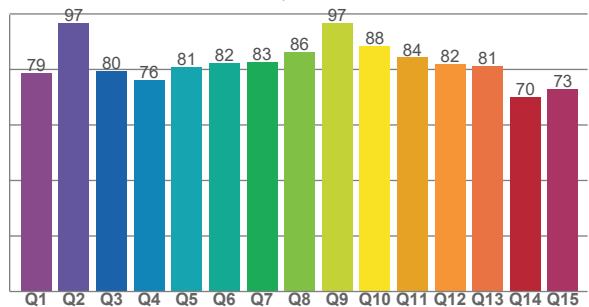
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.1	80.7	76.7	87.6	91.4	93.0	89.3	91.6	87.8	79.5	76.7	85.6	88.9	80.5	78.9	77.5

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.6	96.9	79.6	76.4	80.8	82.2	82.8	86.1	96.7	88.3	84.3	82.1	81.4	70.2	73.1

CQS: 81.2



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
3342 K	82.1	4.5	83.8	95.9	81.2	0.414	0.393	0.240	0.342	-0.0007

NANOBeam Regressed Medium 80°NBE9560

TM-30 Details

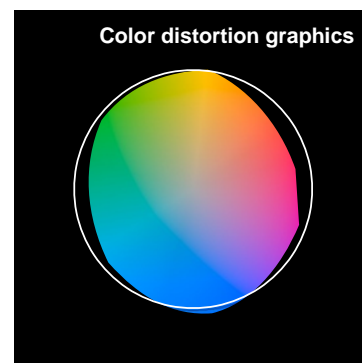
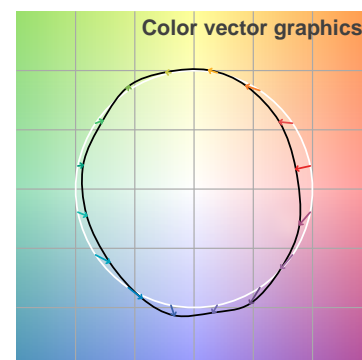
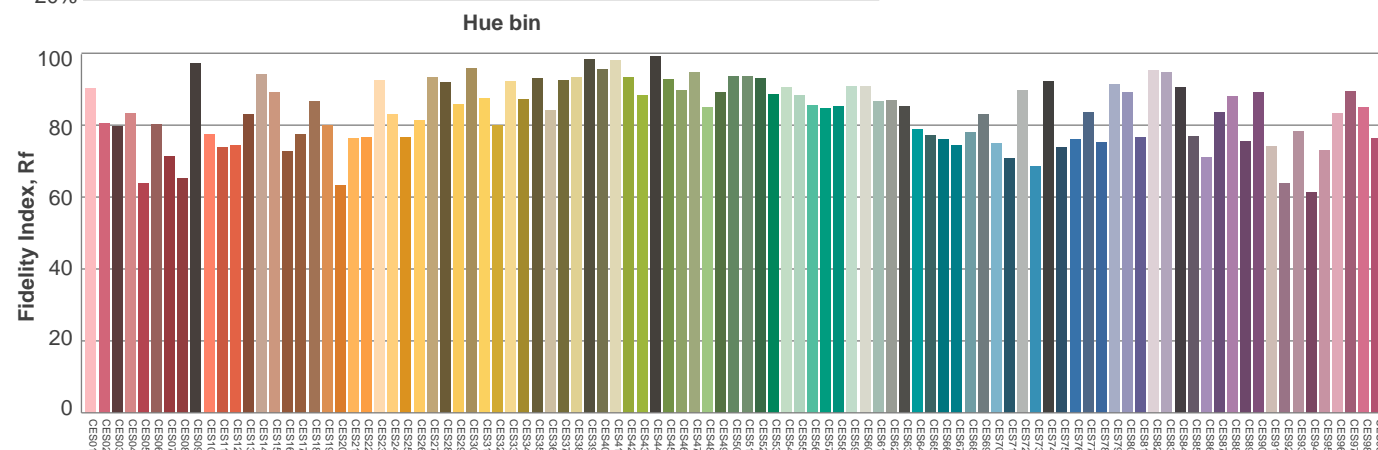
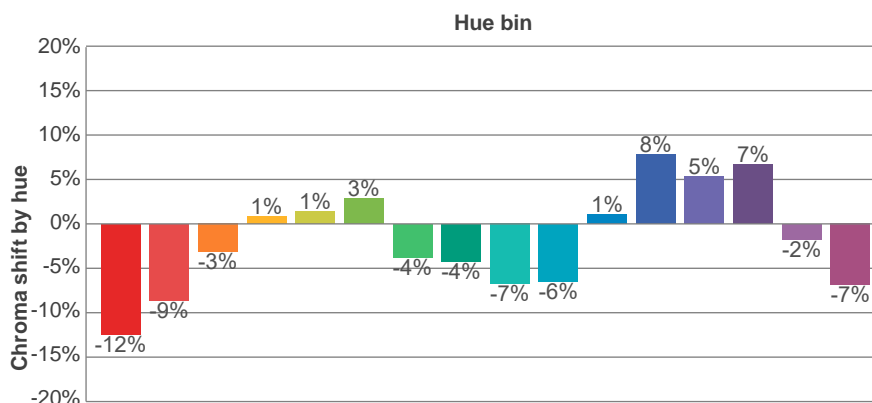
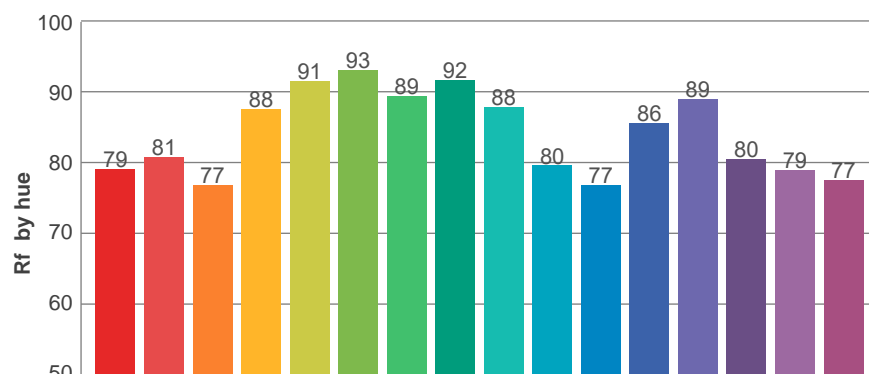
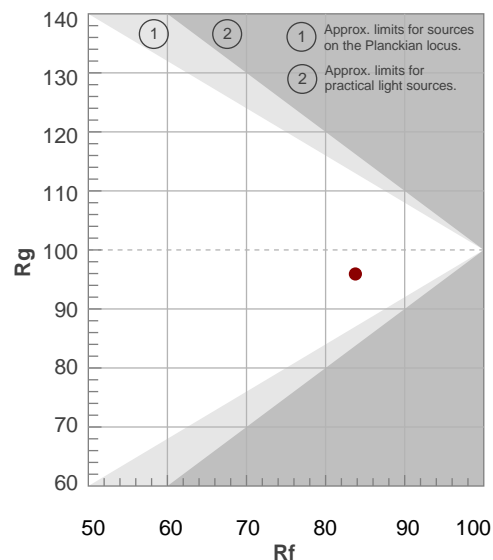
Rf 83.8

Fidelity index Rf

Rg 95.9

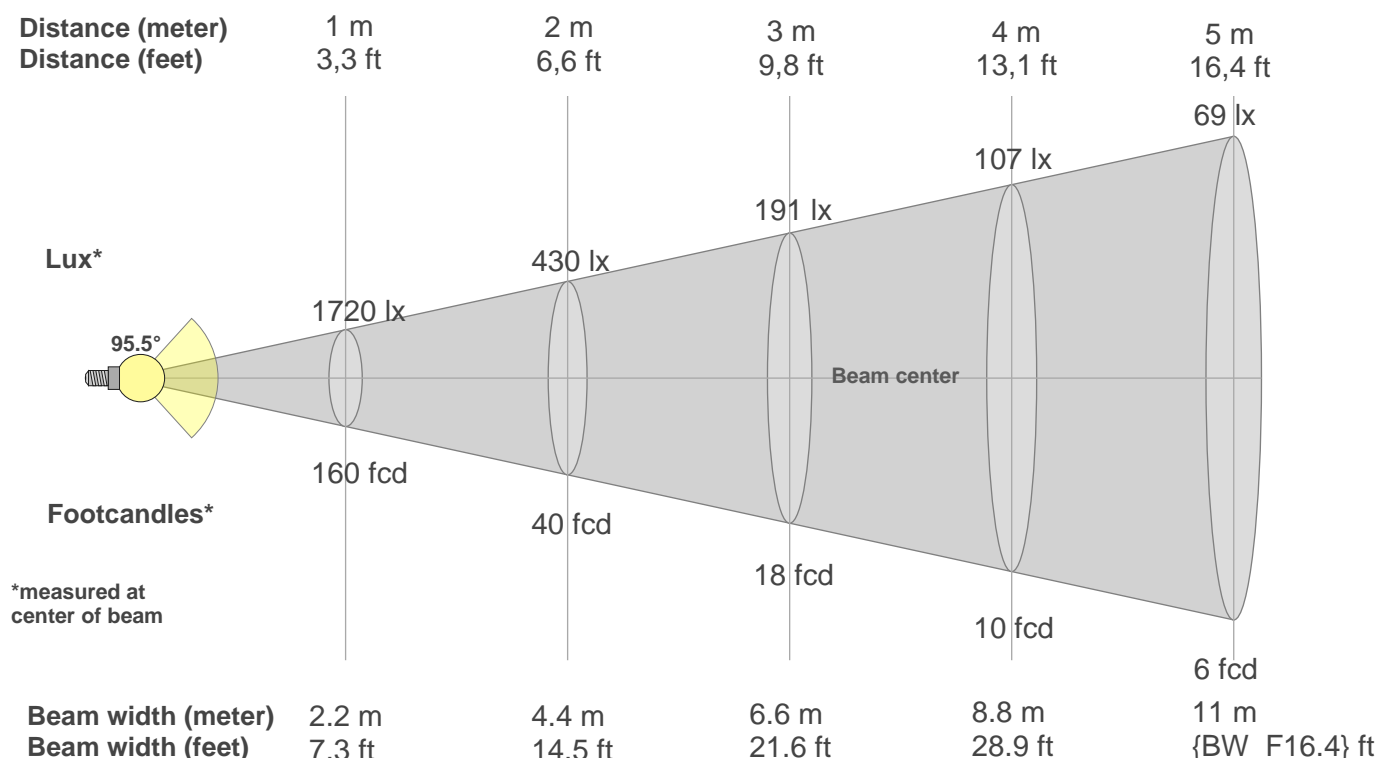
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	79	-12%	0%
2	81	-9%	7%
3	77	-3%	12%
4	88	1%	7%
5	91	1%	4%
6	93	3%	-3%
7	89	-4%	-5%
8	92	-4%	-1%
9	88	-7%	4%
10	80	-6%	12%
11	77	1%	14%
12	86	8%	4%
13	89	5%	-5%
14	80	7%	-14%
15	79	-2%	-15%
16	77	-7%	-12%



NANOBeam Regressed Medium 80°NBE9560

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
1720lx	430lx	191lx	107lx	69lx	48lx	35lx	27lx	21lx	17lx	14lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
159.8fcd	39.9fcd	17.8fcd	10fcd	6.4fcd	4.4fcd	3.3fcd	2.5fcd	2fcd	1.6fcd	1.3fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd	0.4fcd	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°
1720	1714	1695	1663	1618	1561	1490	1407	1311	1203	1085	957	820	676	525	372	225	94	46	44
100%	100%	99%	97%	94%	91%	87%	82%	76%	70%	63%	56%	48%	39%	31%	22%	13%	5%	3%	3%

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°
1720	1698	1638	1549	1441	1317	1181	1035	882	725	568	416	292	217	163	116	74	37	22	20
100%	99%	95%	90%	84%	77%	69%	60%	51%	42%	33%	24%	17%	13%	9%	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°
1720	1714	1695	1663	1618	1561	1490	1407	1311	1203	1085	957	820	676	525	372	225	94	46	44
100%	100%	99%	97%	94%	91%	87%	82%	76%	70%	63%	56%	48%	39%	31%	22%	13%	5%	3%	3%

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°
1720	1698	1638	1549	1441	1317	1181	1035	882	725	568	416	292	217	163	116	74	37	22	20
100%	99%	95%	90%	84%	77%	69%	60%	51%	42%	33%	24%	17%	13%	9%	7%	4%	2%	1%	1%

NANOBeam Regressed Medium 80°NBE9560

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	27.4	28.5	27.6	28.8	29.0	23.8	24.9	24.0	25.2	25.4
	3H	28.9	30.1	29.3	30.4	30.6	24.4	25.5	24.8	25.8	26.0
	4H	29.6	30.7	30.0	31.0	31.2	24.7	25.8	25.1	26.1	26.3
	6H	30.2	31.2	30.5	31.5	31.9	25.0	26.0	25.4	26.3	26.7
	8H	30.4	31.4	30.7	31.7	32.1	25.1	26.1	25.5	26.4	26.8
	12H	30.5	31.4	30.9	31.8	32.2	25.2	26.1	25.6	26.5	26.9
4H	2H	27.4	28.6	27.8	28.8	29.1	24.5	25.6	24.9	25.9	26.1
	3H	29.2	30.2	29.6	30.5	30.9	25.3	26.3	25.7	26.6	27.0
	4H	29.9	30.8	30.4	31.2	31.7	25.7	26.5	26.1	26.9	27.5
	6H	30.6	31.4	31.1	31.8	32.1	26.1	26.9	26.6	27.2	27.6
	8H	30.9	31.6	31.4	32.0	32.4	26.2	27.0	26.7	27.3	27.7
	12H	31.1	31.7	31.6	32.1	32.6	26.3	26.9	26.8	27.4	27.8
8H	4H	29.9	30.7	30.4	31.0	31.4	26.0	26.7	26.5	27.1	27.5
	6H	30.7	31.3	31.2	31.7	32.3	26.5	27.1	27.0	27.5	28.1
	8H	31.0	31.5	31.6	32.0	32.7	26.8	27.2	27.3	27.8	28.4
	12H	31.3	31.7	31.9	32.2	32.8	27.0	27.4	27.5	27.9	28.5
12H	4H	29.9	30.5	30.4	30.9	31.4	26.0	26.6	26.5	27.1	27.5
	6H	30.7	31.2	31.2	31.7	32.3	26.6	27.1	27.1	27.6	28.3
	8H	31.0	31.4	31.6	32.0	32.6	26.9	27.3	27.5	27.8	28.4
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.1 / -0.1					0.2 / -0.3				
S = 1.5H		0.3 / -0.4					0.5 / -0.8				
S = 2.0H		0.9 / -1.1					1.0 / -1.3				
CIE 117-1995. Corrected glare indices referring to 3993 lm total luminous flux											