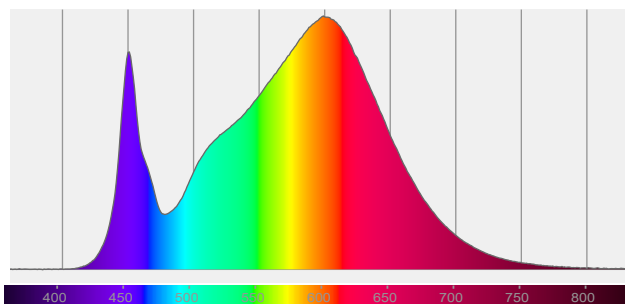
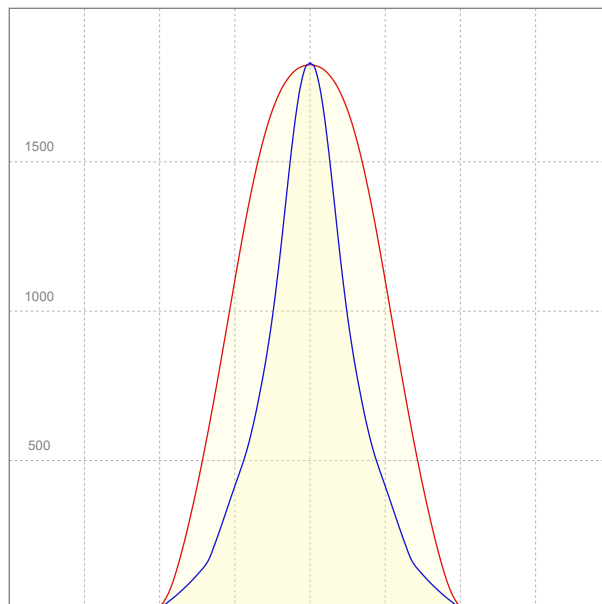
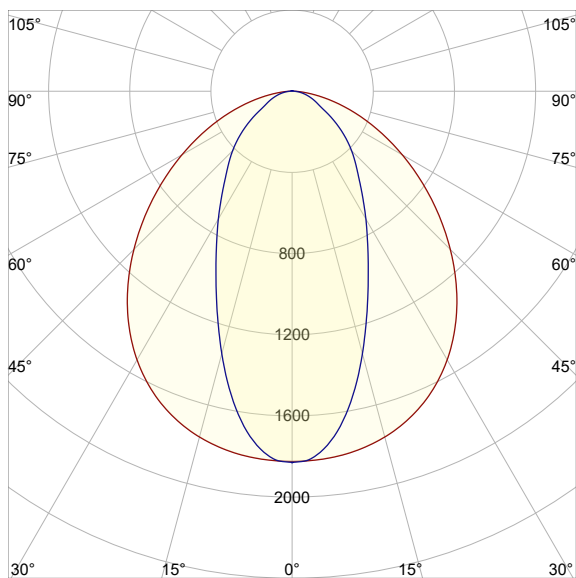


NANOBeam Regressed Medium 50°NBE9560

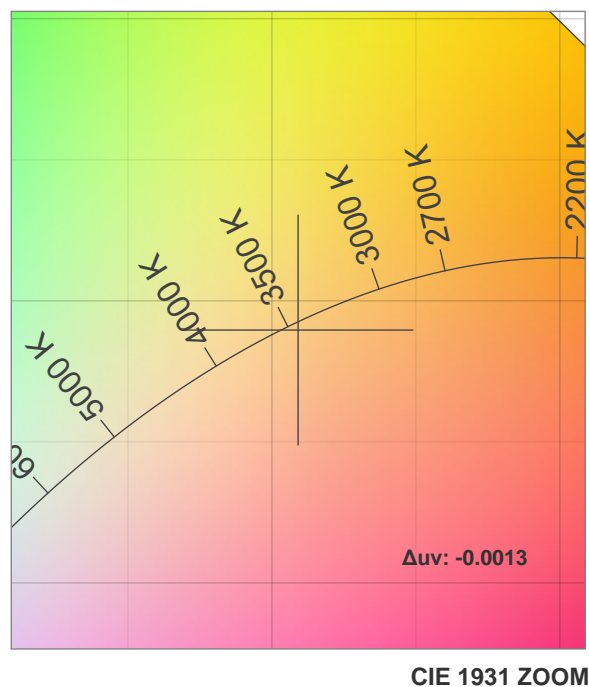
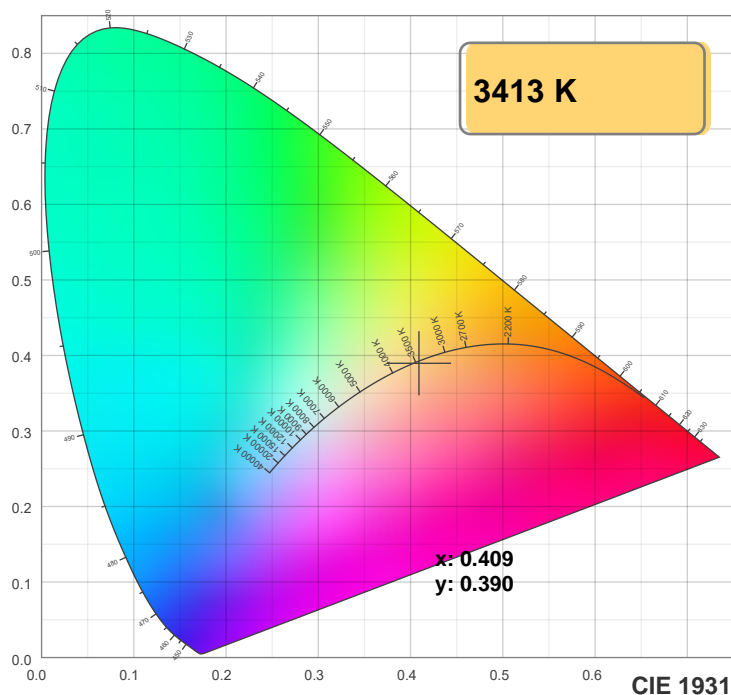
Light efficiency:**123 Lumen/Watt****Light quality:****CRI: 82.6****Color temperature:****3413 K****Output: 2989 lm****Peak: 1831 cd****Power: 24.3 W****PF: 1.0**

No photo

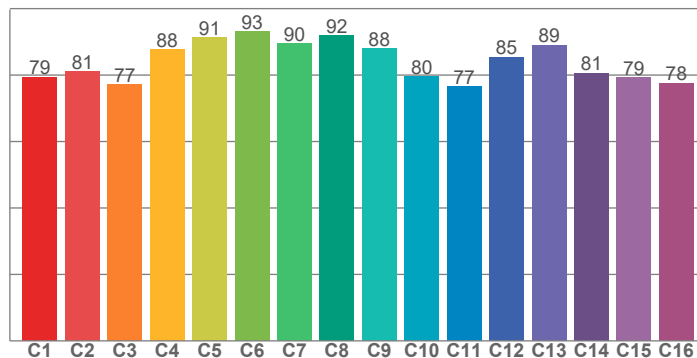
**Product name:****NANOBeam Regressed Medium 50°****Item number:****NBE9560****Configuration:****NBE9560-4FT-3580-WT-DRM50-750LPF****Date and time:****8/3/2021 3:29:53 PM****Description:****Power Supply @ 650mA**

NANOBeam Regressed Medium 50°NBE9560

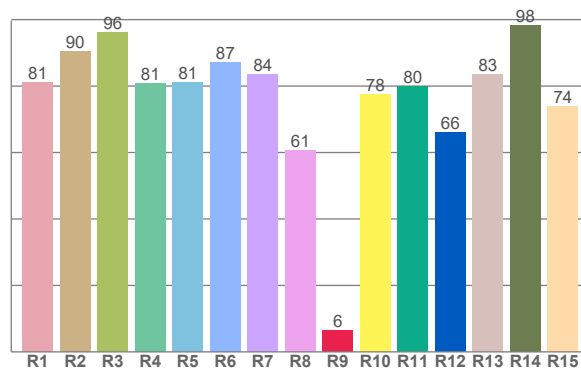
Color Details



TM-30: 83.9



CRI: 82.6 (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
81.1	90.4	96.1	80.9	81.1	87.1	83.6	60.8	6.4	77.5	79.8	66.1	83.5	98.3	73.9

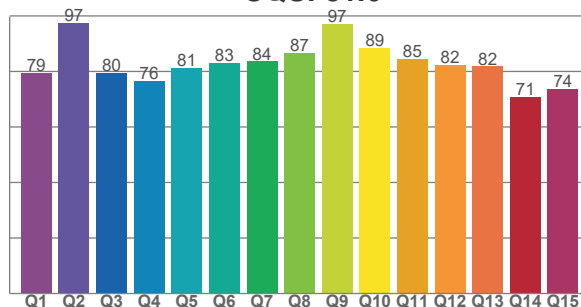
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
79.4	81.1	77.1	87.7	91.3	93.1	89.6	91.9	88.0	79.6	76.6	85.4	89.0	80.6	79.2	77.6

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
79.4	97.4	79.5	76.5	81.3	83.0	83.6	86.7	97.2	88.6	84.6	82.3	81.8	71.0	73.8

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
3413 K	82.6	6.4	83.9	96.2	81.6	0.409	0.390	0.239	0.341	-0.0013

NANOBeam Regressed Medium 50°NBE9560

TM-30 Details

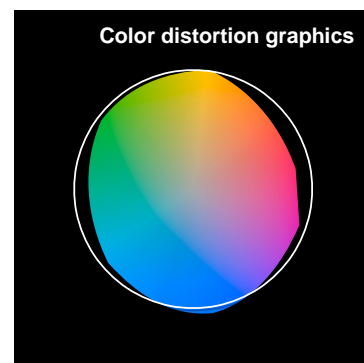
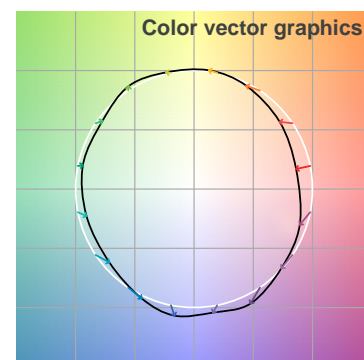
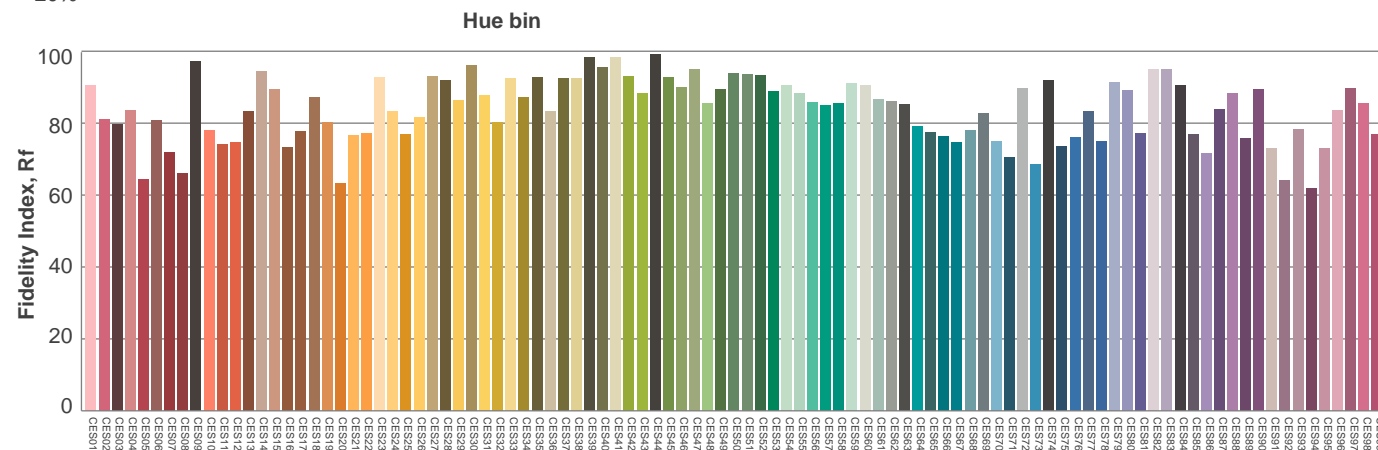
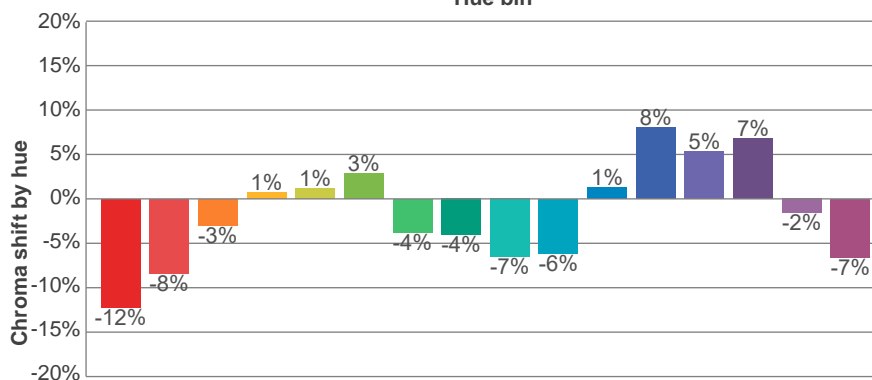
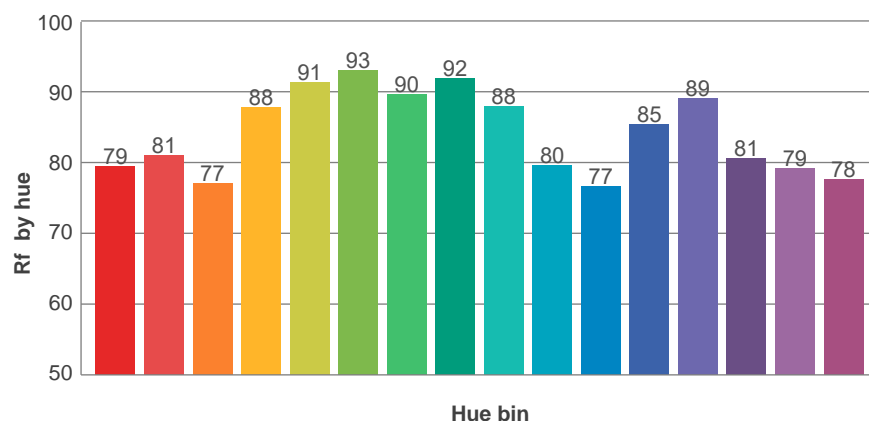
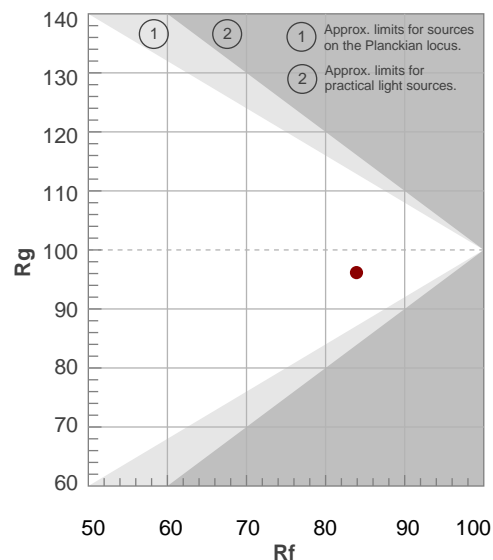
Rf 83.9

Fidelity index Rf

Rg 96.2

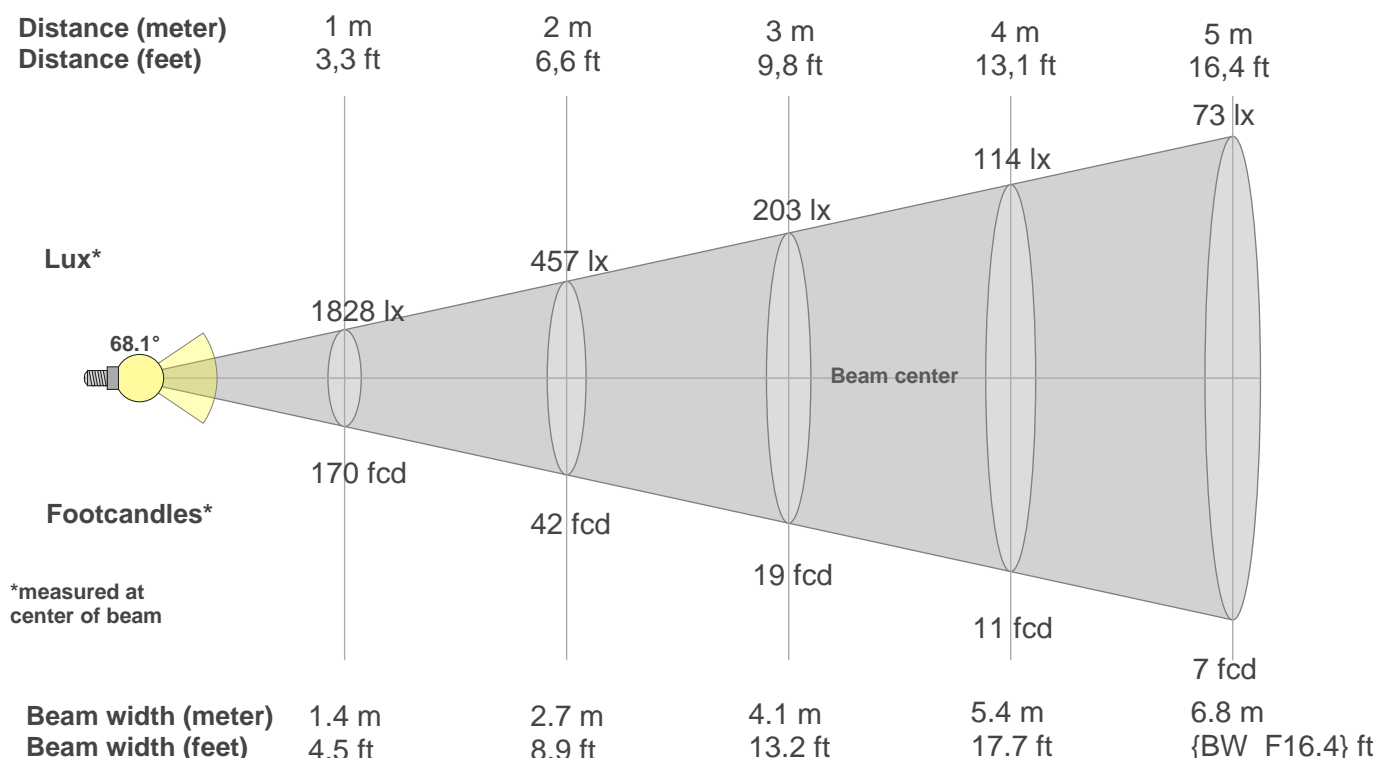
Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	79	-12%	0%
2	81	-8%	7%
3	77	-3%	12%
4	88	1%	7%
5	91	1%	4%
6	93	3%	-2%
7	90	-4%	-5%
8	92	-4%	-1%
9	88	-7%	5%
10	80	-6%	12%
11	77	1%	15%
12	85	8%	5%
13	89	5%	-5%
14	81	7%	-14%
15	79	-2%	-15%
16	78	-7%	-12%



NANOBeam Regressed Medium 50°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
1828lx	457lx	203lx	114lx	73lx	51lx	37lx	29lx	23lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
169.8fcd	42.5fcd	18.9fcd	10.6fcd	6.8fcd	4.7fcd	3.5fcd	2.7fcd	2.1fcd	1.7fcd	1.4fcd	1.2fcd	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°
1828	1818	1799	1763	1707	1629	1527	1403	1259	1102	940	780	627	483	352	233	131	54	9	8
100%	99%	98%	96%	93%	89%	84%	77%	69%	60%	51%	43%	34%	26%	19%	13%	7%	3%	0%	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°
1828	1771	1589	1338	1089	885	727	595	495	414	332	250	175	133	102	74	49	26	8	0
100%	97%	87%	73%	60%	48%	40%	33%	27%	23%	18%	14%	10%	7%	6%	4%	3%	1%	0%	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°
1828	1818	1799	1763	1707	1629	1527	1403	1259	1102	940	780	627	483	352	233	131	54	9	8
100%	99%	98%	96%	93%	89%	84%	77%	69%	60%	51%	43%	34%	26%	19%	13%	7%	3%	0%	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°
1828	1771	1589	1338	1089	885	727	595	495	414	332	250	175	133	102	74	49	26	8	0
100%	97%	87%	73%	60%	48%	40%	33%	27%	23%	18%	14%	10%	7%	6%	4%	3%	1%	0%	0%

NANOBeam Regressed Medium 50°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	26.2	27.3	26.4	27.6	27.8	21.2	22.3	21.4	22.5	22.8
	3H	27.5	28.6	27.9	28.9	29.1	21.9	23.0	22.3	23.2	23.4
	4H	28.1	29.1	28.5	29.4	29.6	22.2	23.3	22.6	23.6	23.8
	6H	28.5	29.5	28.8	29.7	30.1	22.6	23.6	22.9	23.8	24.2
	8H	28.7	29.5	29.0	29.9	30.3	22.8	23.7	23.1	24.0	24.4
	12H	28.7	29.6	29.1	29.9	30.4	22.9	23.7	23.2	24.1	24.5
4H	2H	26.2	27.2	26.6	27.5	27.7	22.0	23.0	22.4	23.3	23.5
	3H	27.7	28.6	28.1	28.9	29.4	22.9	23.7	23.2	24.1	24.5
	4H	28.3	29.1	28.7	29.5	30.0	23.3	24.1	23.7	24.5	25.0
	6H	28.8	29.6	29.3	29.9	30.3	23.7	24.5	24.2	24.8	25.2
	8H	29.0	29.7	29.5	30.1	30.4	23.9	24.6	24.4	24.9	25.3
	12H	29.1	29.7	29.6	30.1	30.6	24.0	24.6	24.5	25.0	25.5
8H	4H	28.3	29.0	28.8	29.3	29.7	23.6	24.3	24.1	24.7	25.0
	6H	28.9	29.4	29.4	29.8	30.4	24.2	24.7	24.7	25.1	25.7
	8H	29.1	29.6	29.6	30.1	30.7	24.5	24.9	25.0	25.4	26.1
	12H	29.3	29.7	29.9	30.2	30.8	24.7	25.1	25.3	25.6	26.2
12H	4H	28.2	28.8	28.7	29.2	29.7	23.6	24.2	24.1	24.6	25.1
	6H	28.9	29.3	29.4	29.8	30.5	24.3	24.7	24.8	25.2	25.9
	8H	29.1	29.5	29.7	30.0	30.6	24.6	25.0	25.2	25.5	26.1
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.2 / -0.2					0.2 / -0.3				
S = 1.5H		0.8 / -0.8					0.4 / -0.8				
S = 2.0H		1.6 / -1.5					0.8 / -1.2				
CIE 117-1995. Corrected glare indices referring to 2989 lm total luminous flux											