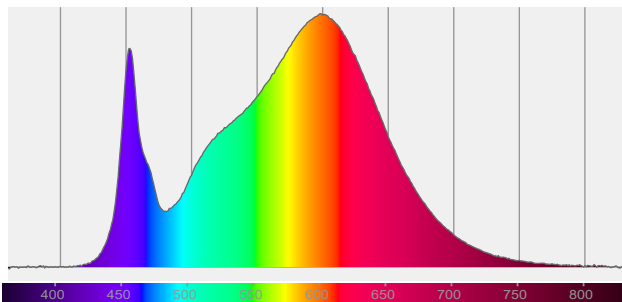
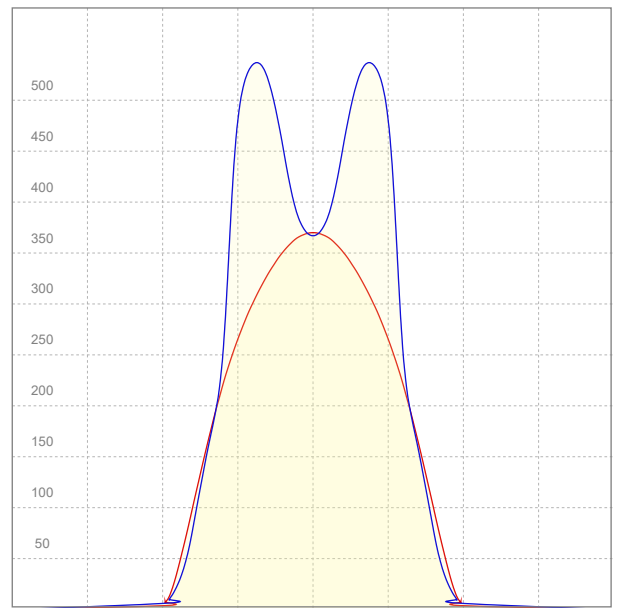
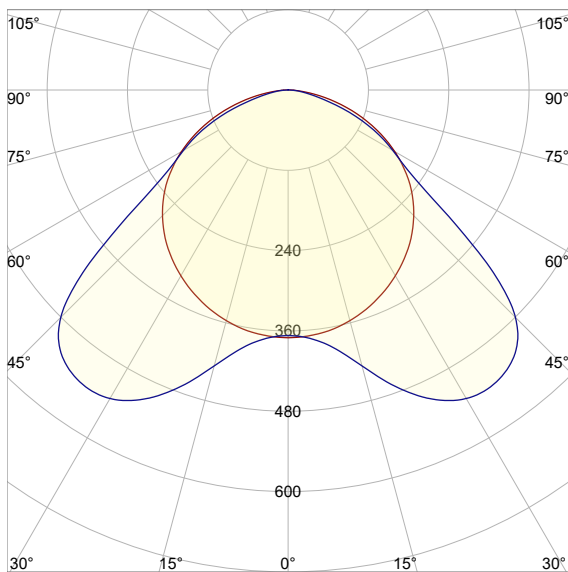
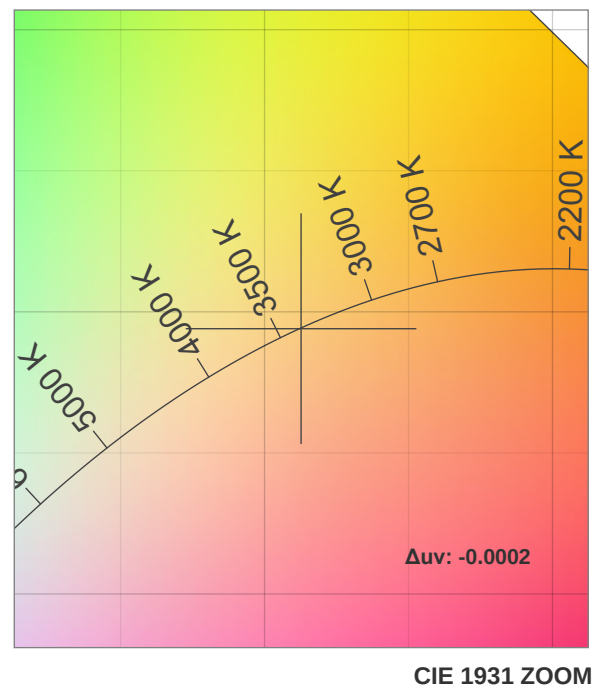
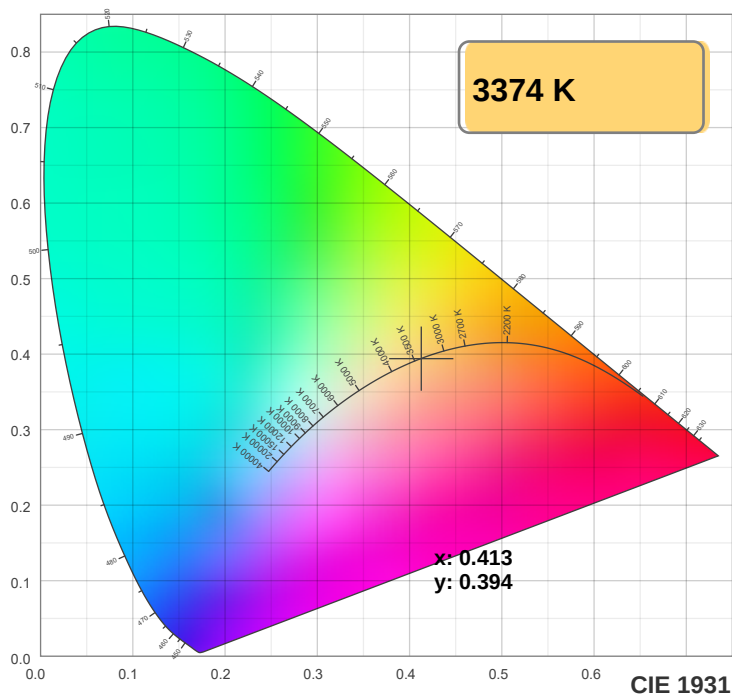


MICROBeam Regressed Batwing 60°**MBE140****Light efficiency:****145 Lumen/Watt****Output: 1380 lm****Light quality:****CRI: 81.9****Peak: 537 cd****Color temperature:****3374 K****Power: 9.5 W****PF: 1.0**

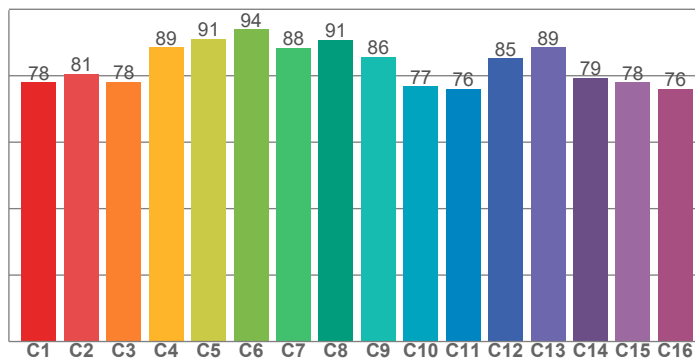
No photo

**Product name:****MICROBeam Regressed Batwing 60°****Item number:****MBE140****Configuration:****MBE140-4FT-3580-WT-DRB60-350LPF****Date and time:****8/9/2021 10:41:04 AM****Description:****Power Supply @ 270mA, No Lenticular**

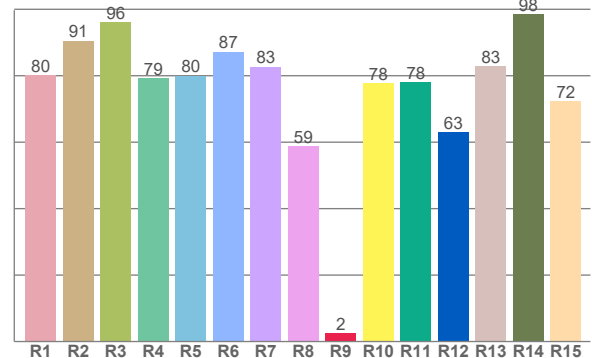
Color Details



TM-30: 83.2



CRI: 81.9 (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
80.2	90.5	96.0	79.3	80.0	87.3	82.8	58.8	2.4	77.8	78.1	63.0	82.9	98.5	72.4

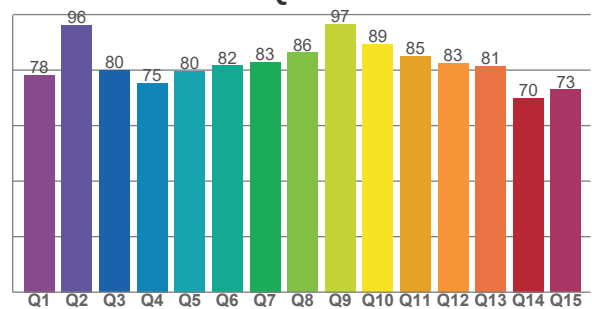
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.0	80.6	78.1	88.5	91.1	93.9	88.4	90.7	85.6	76.8	76.1	85.3	88.6	79.4	78.0	76.1

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.3	96.2	79.9	75.4	79.6	81.5	82.9	86.3	96.6	89.4	85.1	82.5	81.4	69.9	72.9

CQS: 81.0



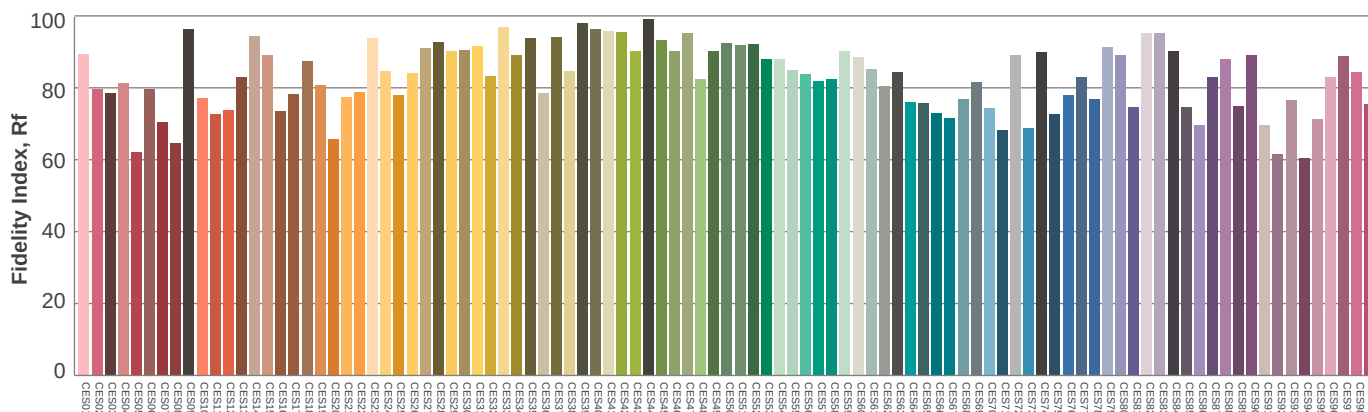
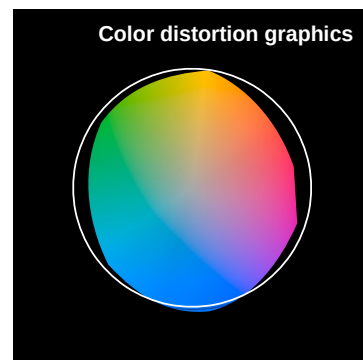
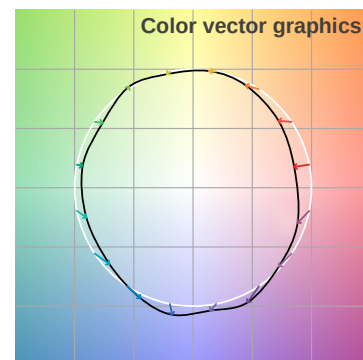
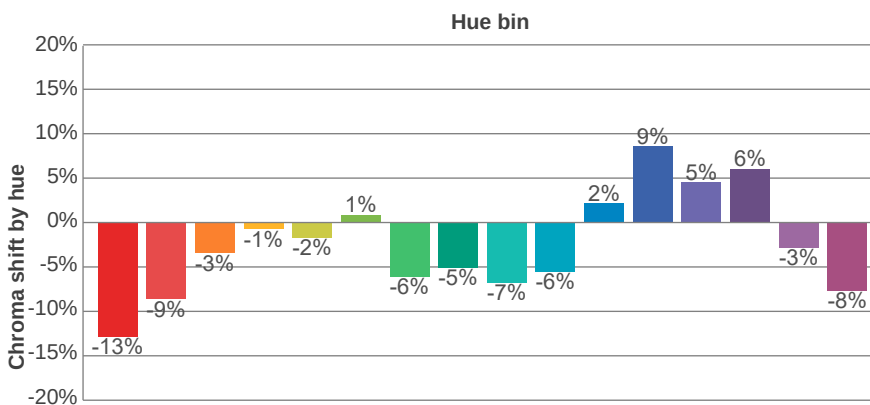
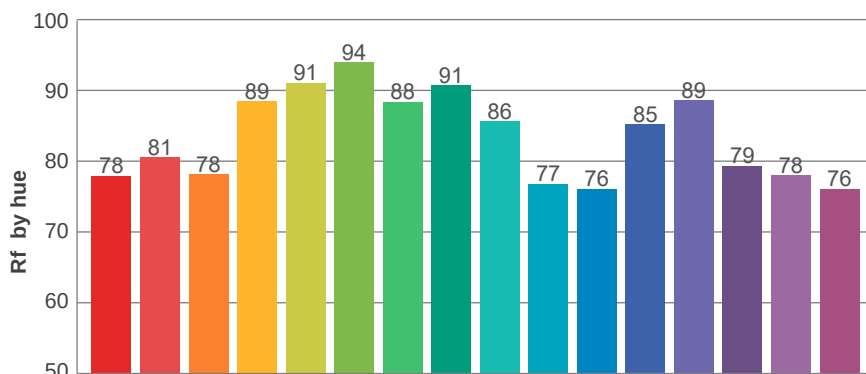
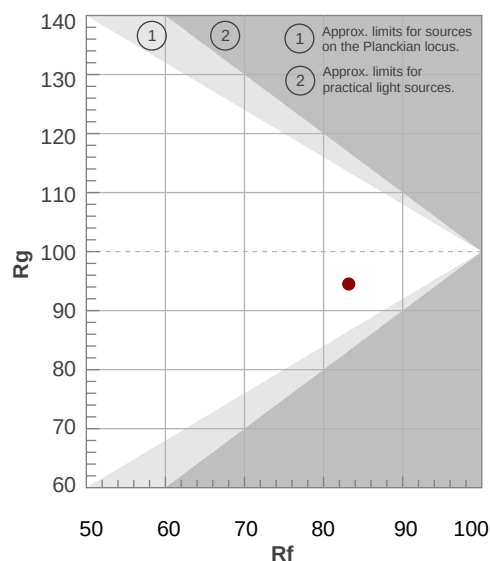
Color parameters

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
3374 K	81.9	2.4	83.2	94.5	81.0	0.413	0.394	0.239	0.342	-0.0002

Fidelity index R_f

Gamut index Rg

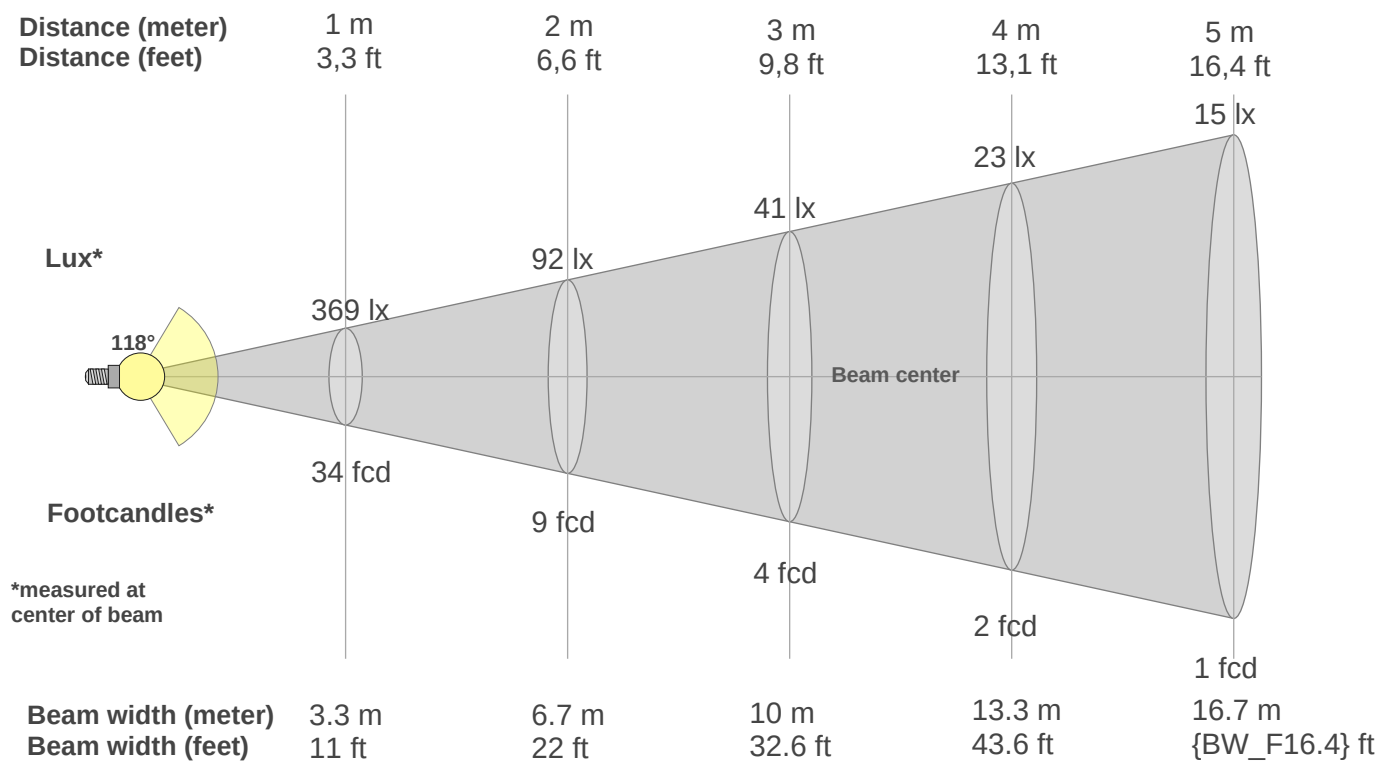
		Shifts (%)	
Hue Bin	R_l	Chroma	Hue
1	78	-13%	1%
2	81	-9%	7%
3	78	-3%	11%
4	89	-1%	6%
5	91	-2%	3%
6	94	1%	-2%
7	88	-6%	-3%
8	91	-5%	0%
9	86	-7%	7%
10	77	-6%	14%
11	76	2%	15%
12	85	9%	4%
13	89	5%	-6%
14	79	6%	-16%
15	78	-3%	-15%
16	76	-8%	-12%



MICROBeam Regressed Batwing 60°

MBE140

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
369lx	92lx	41lx	23lx	15lx	10lx	8lx	6lx	5lx	4lx	3lx	3lx	2lx	2lx	2lx	1lx	1lx	1lx	1lx	1lx
34.2fcd	8.6fcd	3.8fcd	2.1fcd	1.4fcd	1fcd	0.7fcd	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°
369	368	364	357	347	334	320	304	286	265	242	214	184	150	115	79	45	17	4	4
100%	100%	99%	97%	94%	91%	87%	83%	78%	72%	66%	58%	50%	41%	31%	21%	12%	5%	1%	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°
369	373	392	427	472	509	532	536	522	478	360	234	181	140	97	55	28	13	6	6
100%	101%	106%	116%	128%	138%	144%	145%	142%	130%	98%	64%	49%	38%	26%	15%	8%	3%	2%	2%

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°
369	368	364	357	347	334	320	304	286	265	242	214	184	150	115	79	45	17	4	4
100%	100%	99%	97%	94%	91%	87%	83%	78%	72%	66%	58%	50%	41%	31%	21%	12%	5%	1%	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°
369	373	392	427	472	509	532	536	522	478	360	234	181	140	97	55	28	13	6	6
100%	101%	106%	116%	128%	138%	144%	145%	142%	130%	98%	64%	49%	38%	26%	15%	8%	3%	2%	2%

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	20.6	21.8	20.9	22.1	22.4	21.6	22.8	21.8	23.1	23.3
	3H	21.9	23.1	22.3	23.4	23.6	22.3	23.5	22.7	23.8	24.0
	4H	22.4	23.5	22.8	23.8	24.1	22.5	23.7	22.9	24.0	24.2
	6H	22.8	23.8	23.1	24.1	24.5	22.7	23.7	23.0	24.0	24.4
	8H	22.8	23.9	23.2	24.2	24.6	22.7	23.7	23.1	24.0	24.4
	12H	22.9	23.9	23.2	24.2	24.6	22.7	23.7	23.1	24.0	24.5
4H	2H	21.2	22.4	21.6	22.7	22.9	21.9	23.1	22.3	23.4	23.6
	3H	22.7	23.7	23.1	24.0	24.5	22.9	23.9	23.3	24.2	24.7
	4H	23.2	24.1	23.6	24.5	25.0	23.2	24.1	23.6	24.5	25.0
	6H	23.6	24.4	24.1	24.8	25.2	23.4	24.2	23.9	24.6	24.9
	8H	23.7	24.5	24.2	24.9	25.2	23.4	24.2	23.9	24.6	24.9
	12H	23.8	24.4	24.3	24.8	25.3	23.4	24.1	23.9	24.5	25.0
8H	4H	23.3	24.1	23.8	24.5	24.8	23.3	24.1	23.8	24.5	24.8
	6H	23.8	24.4	24.3	24.8	25.4	23.6	24.2	24.1	24.6	25.2
	8H	24.0	24.5	24.5	25.0	25.6	23.7	24.2	24.2	24.7	25.4
	12H	24.1	24.5	24.7	25.0	25.6	23.8	24.2	24.4	24.7	25.3
12H	4H	23.3	23.9	23.8	24.4	24.8	23.3	23.9	23.8	24.4	24.8
	6H	23.8	24.3	24.3	24.8	25.5	23.6	24.1	24.1	24.6	25.3
	8H	24.0	24.4	24.6	24.9	25.5	23.7	24.2	24.3	24.7	25.3
Variation of the observer position for the luminaire distance S											
S = 1.0H		0.2 / -0.2					0.4 / -0.4				
S = 1.5H		0.3 / -0.4					0.9 / -1.0				
S = 2.0H		0.5 / -0.8					1.7 / -1.5				
CIE 117-1995. Corrected glare indices referring to 1380 lm total luminous flux											