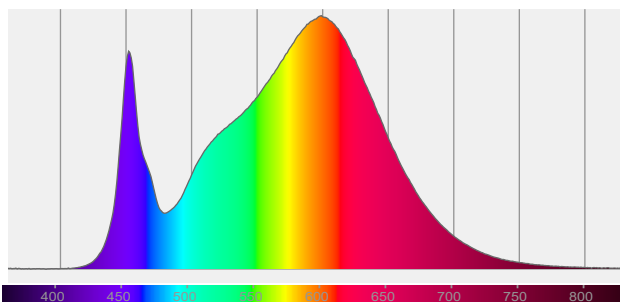
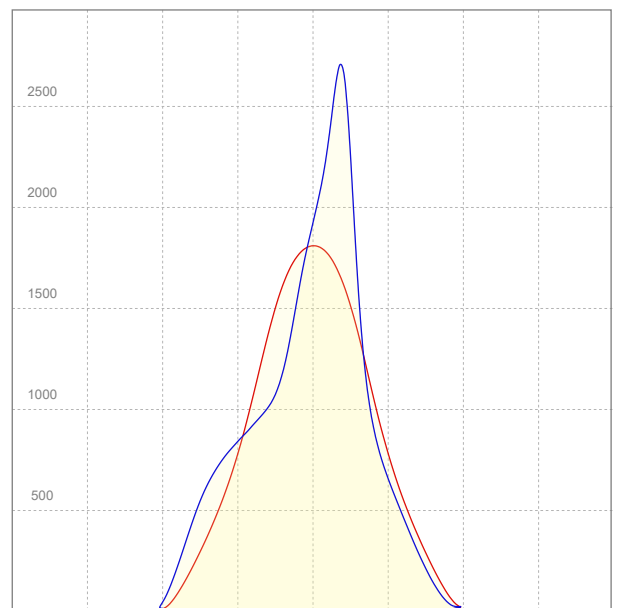
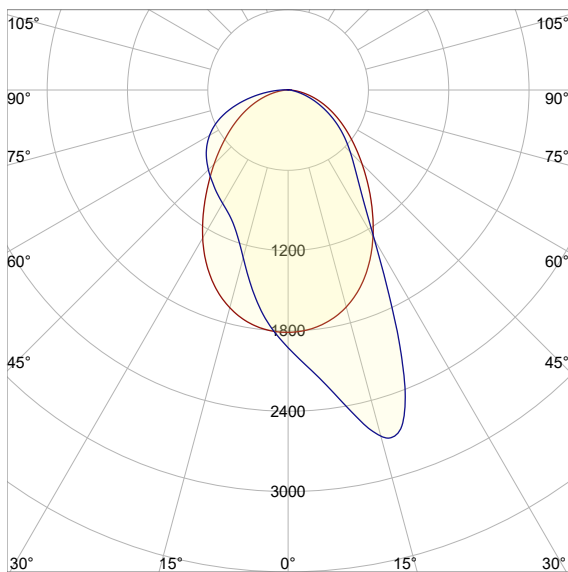
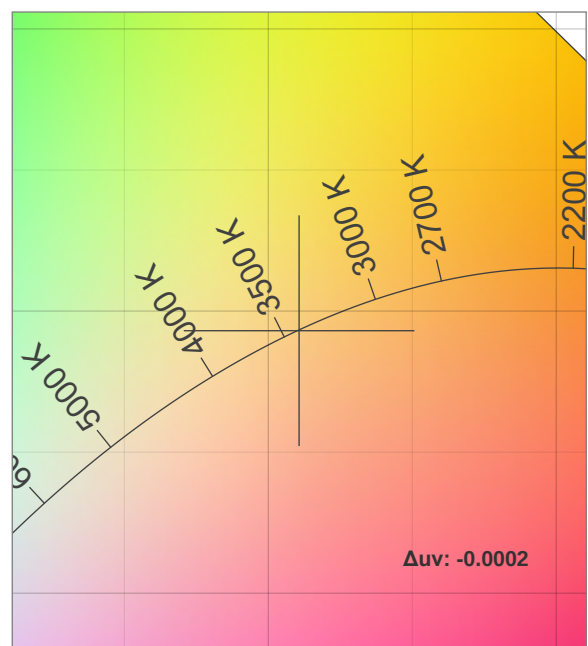
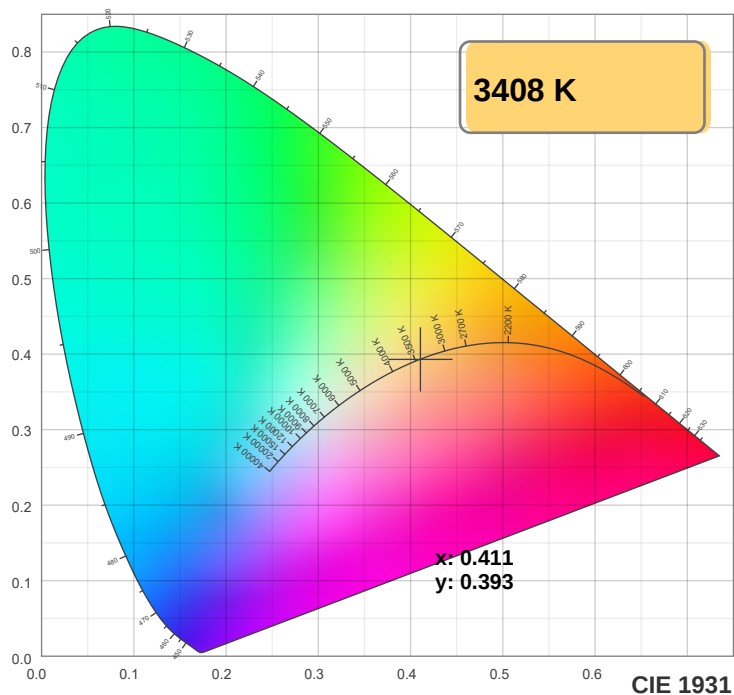


MICROSquare Asymmetric 30° at 15°**MSQ140****Light efficiency:****129 Lumen/Watt****Output: 3985 lm****Light quality:****CRI: 81.9****Peak: 2707 cd****Color temperature:****3408 K****Power: 30.8 W****PF: 1.0**

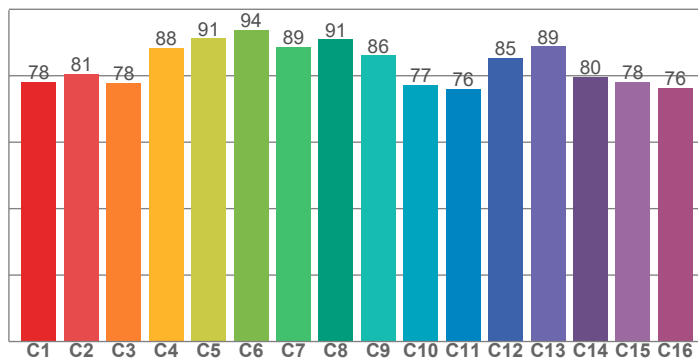
No photo

**Product name:****MICROSquare Asymmetric 30° at 15°****Item number:****MSQ140****Configuration:****MSQ140-4FT-3580-AL-DA3015-1000LPF****Date and time:****8/6/2021 4:41:27 PM****Description:****Power Supply @ 810mA, With Lenticular**

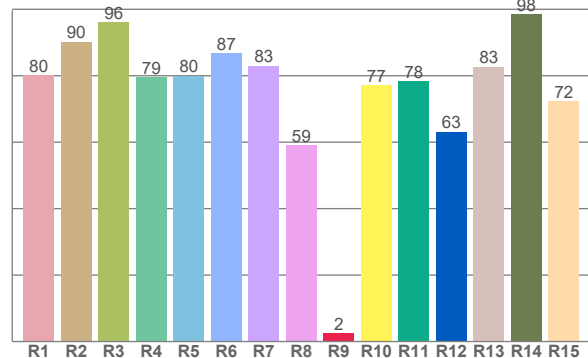
Color Details



TM-30: 83.3



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
80.1	90.3	96.1	79.5	80.0	86.8	83.0	59.1	2.5	77.2	78.3	63.1	82.7	98.4	72.4

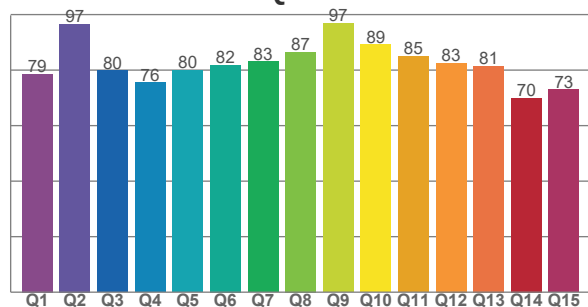
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
78.2	80.5	77.8	88.3	91.2	93.9	88.7	91.0	86.1	77.3	76.1	85.3	88.8	79.7	78.2	76.4

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
78.6	96.6	79.8	75.6	79.9	81.8	83.0	86.5	96.8	89.3	85.0	82.5	81.5	69.9	73.0

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
3408 K	81.9	2.5	83.3	94.8	81.1	0.411	0.393	0.238	0.342	-0.0002

MICROSquare Asymmetric 30° at 15°

MSQ140

TM-30 Details

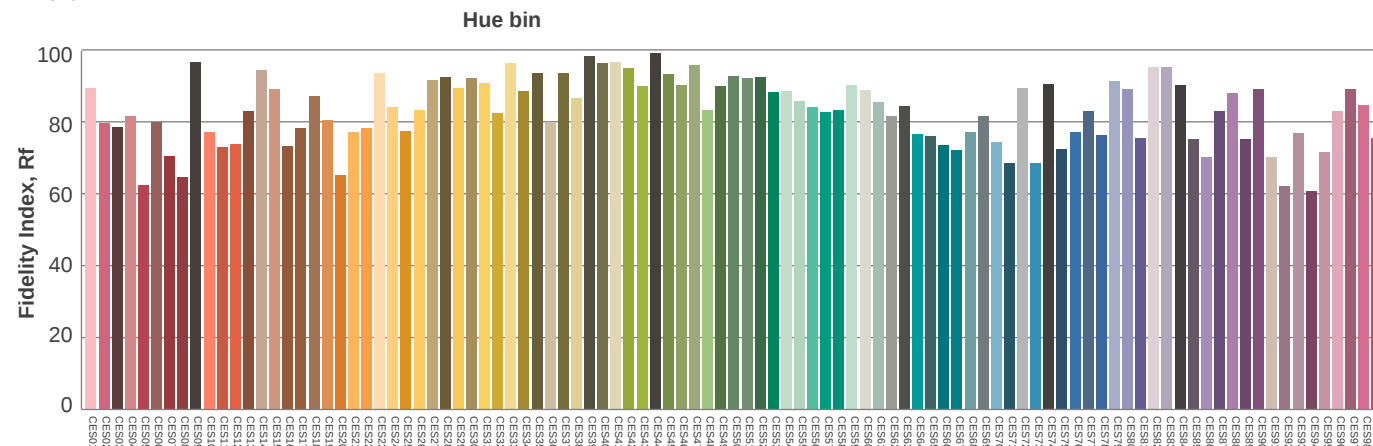
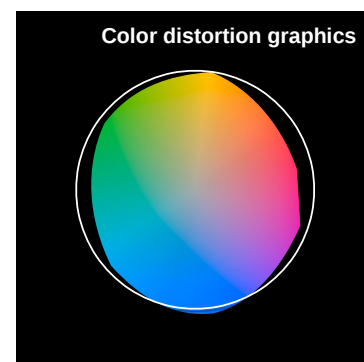
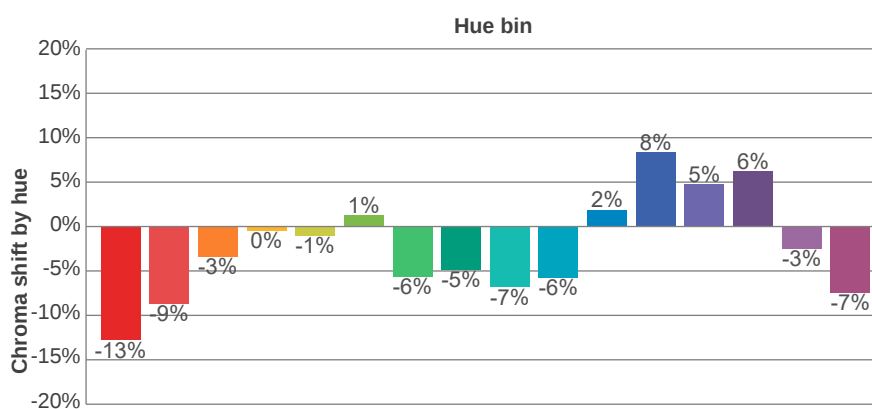
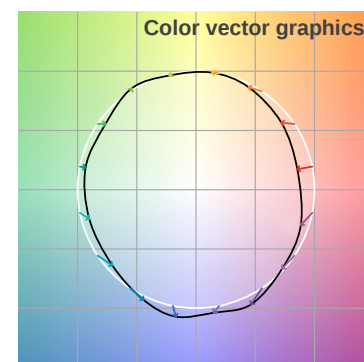
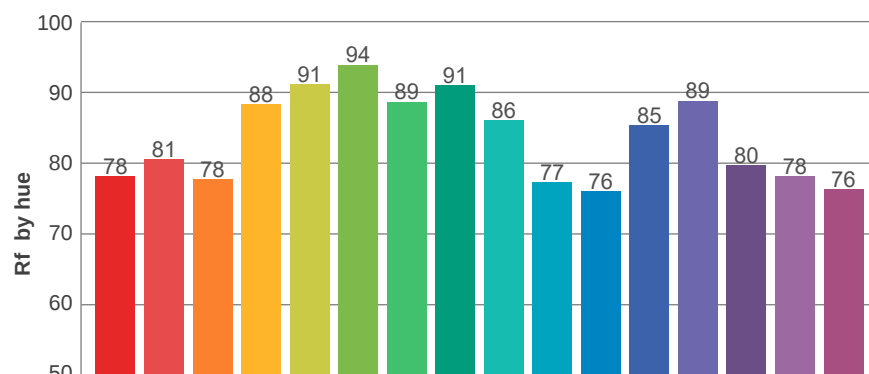
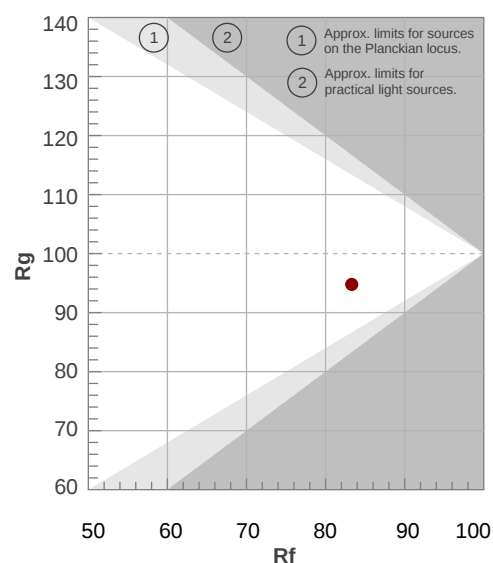
Rf 83.3

Fidelity index Rf

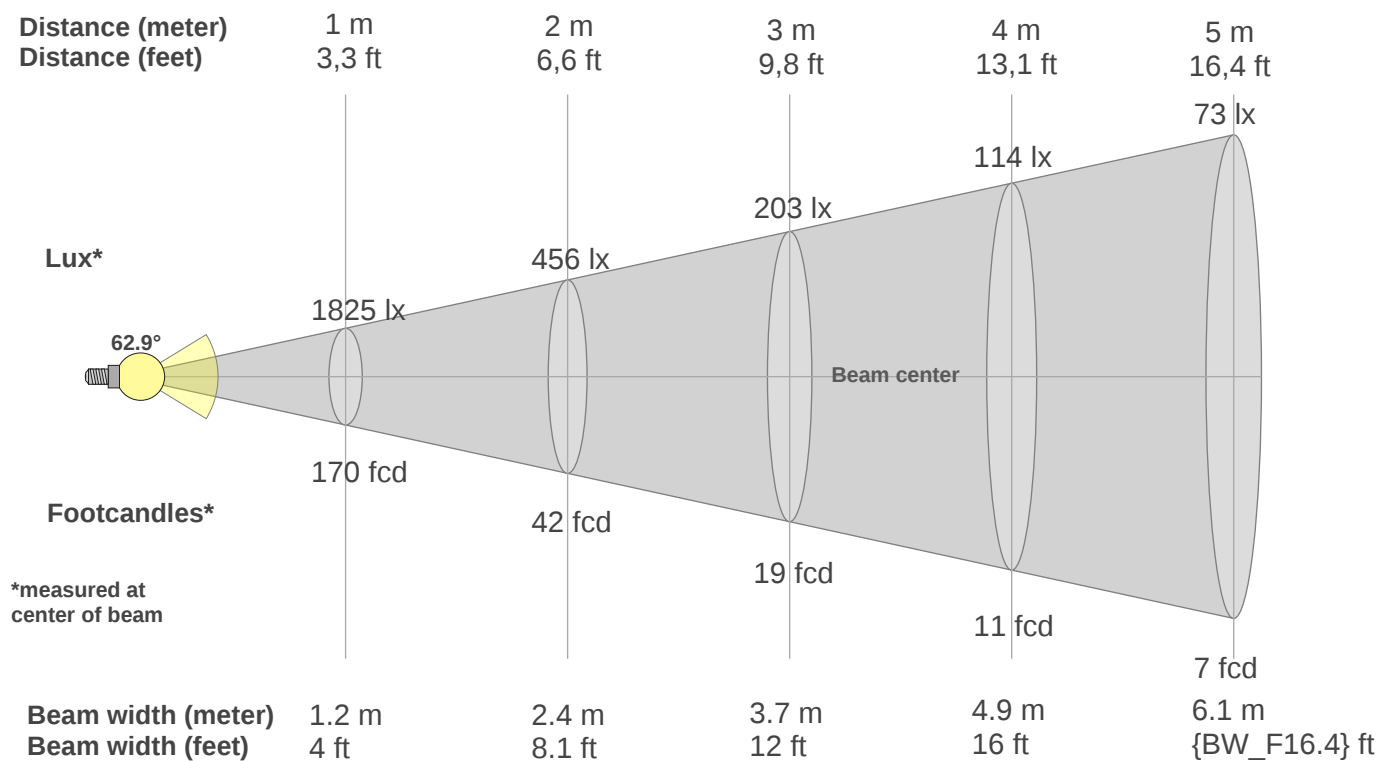
Rg 94.8

Gamut index Rg

Hue Bin	R _f	Shifts (%)	
		Chroma	Hue
1	78	-13%	0%
2	81	-9%	7%
3	78	-3%	11%
4	88	0%	6%
5	91	-1%	3%
6	94	1%	-2%
7	89	-6%	-4%
8	91	-5%	0%
9	86	-7%	7%
10	77	-6%	14%
11	76	2%	15%
12	85	8%	4%
13	89	5%	-6%
14	80	6%	-15%
15	78	-3%	-15%
16	76	-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
1825lx	456lx	203lx	114lx	73lx	51lx	37lx	29lx	23lx	18lx	15lx	13lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx	5lx
169.6fcd	42.4fcd	18.8fcd	10.6fcd	6.8fcd	4.7fcd	3.5fcd	2.6fcd	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°
1825	1795	1751	1677	1569	1429	1267	1096	931	781	650	535	433	340	255	175	104	46	14	0
100%	98%	96%	92%	86%	78%	69%	60%	51%	43%	36%	29%	24%	19%	14%	10%	6%	2%	1%	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°
1825	2114	2378	2663	2529	1882	1296	968	784	657	550	447	348	256	172	102	51	26	0	0
100%	116%	130%	146%	139%	103%	71%	53%	43%	36%	30%	25%	19%	14%	9%	6%	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°
1825	1798	1757	1683	1576	1438	1275	1100	931	782	649	533	429	335	247	166	95	41	0	0
100%	99%	96%	92%	86%	79%	70%	60%	51%	43%	36%	29%	24%	18%	14%	9%	5%	2%	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°
1825	1741	1521	1298	1133	1035	978	931	885	842	795	742	676	596	494	374	249	135	47	0
100%	95%	83%	71%	62%	57%	54%	51%	49%	46%	44%	41%	37%	33%	27%	20%	14%	7%	3%	0%

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				
n/a n/a n/a n/a n/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a n/a n/a n/a n/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a n/a n/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
n/a n/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Variation of the observer position for the luminaire distance S										
n/a	n/a					n/a				
n/a	n/a					n/a				
n/a	n/a					n/a				
CIE 117-1995. Corrected glare indices referring to 3985 lm total luminous flux										