

Light efficiency:



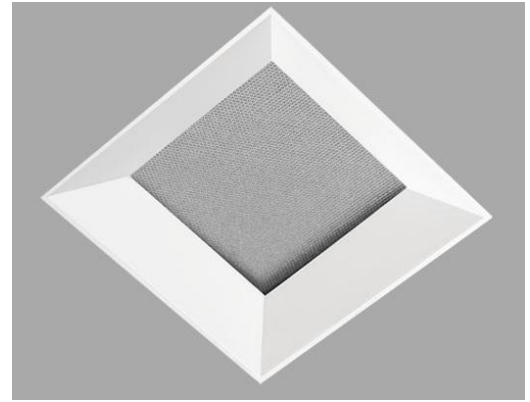
Output: 779 lm

Light quality:

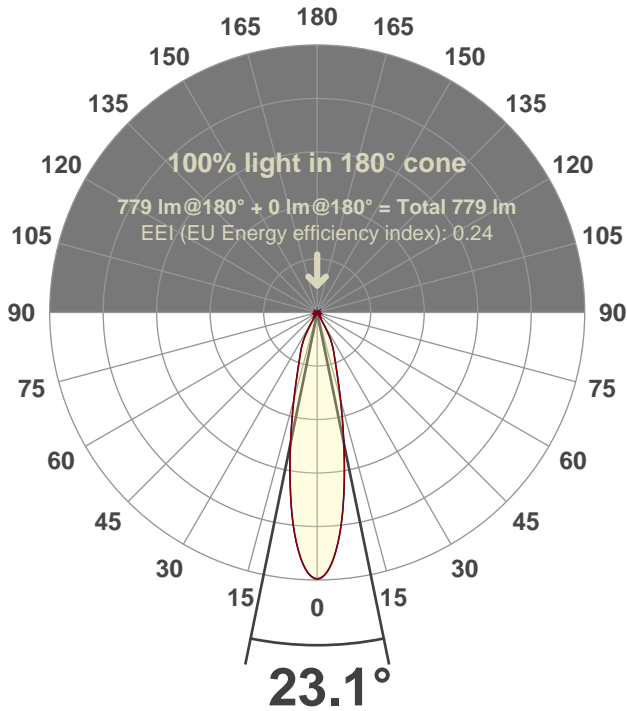


Peak: 3270 cd

Power: 15.2 W



Beam angle



Test number:

CR4D-S-OR-A14-30k-24 (GRO-AD-NF-SQ)

Luminaire Model:

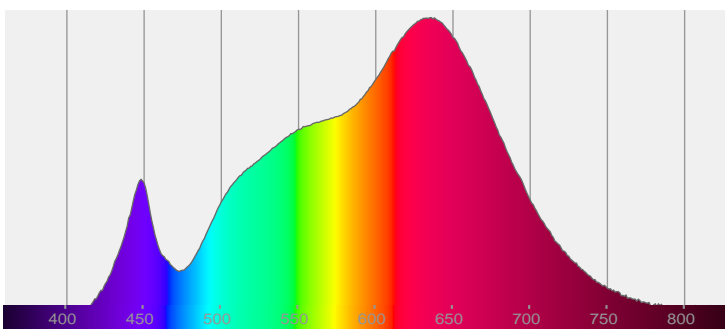
Core 4" Square Open Regress A14 30 to 19k 24°

Date and time:

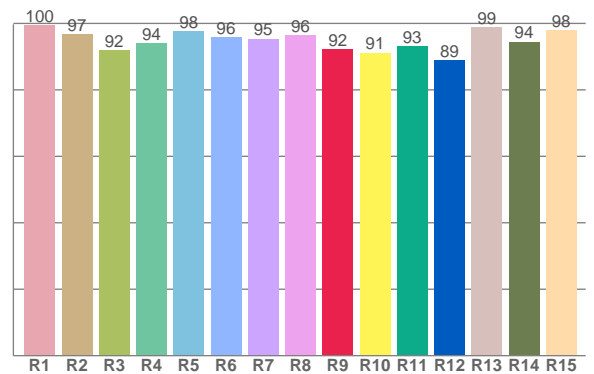
5/4/2017 3:44:59 PM

LUM: 779

Spectra



CRI: 95.9 (R1-R8)

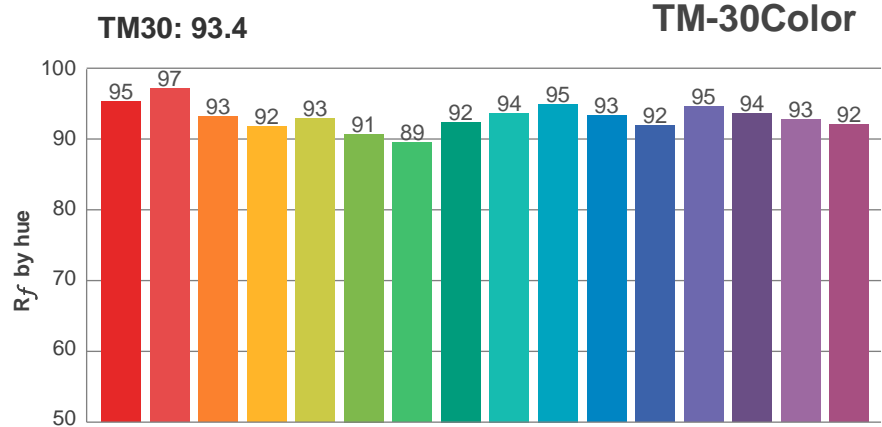


Color parameters

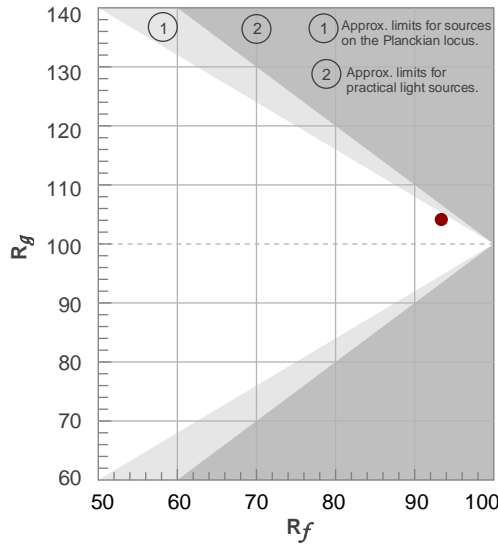
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	95.9	92.2	93.4	104.1	93.3	0.437	0.404	0.250	0.348	0.0001

R_f 93.4
Fidelity index R_f

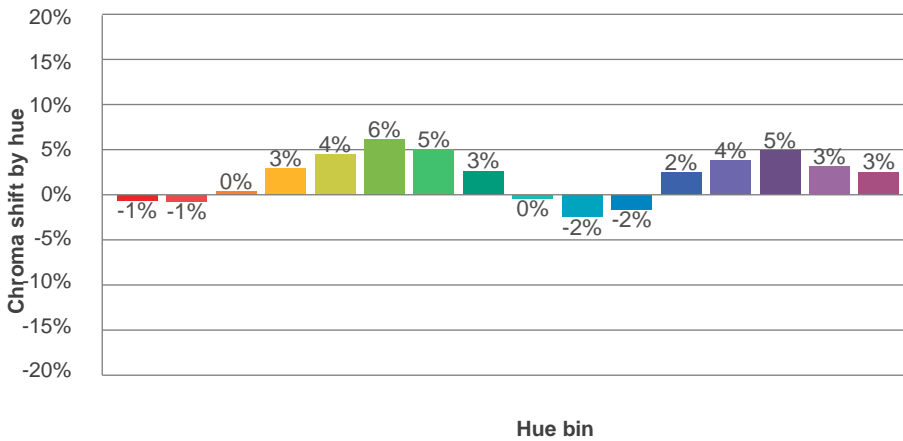
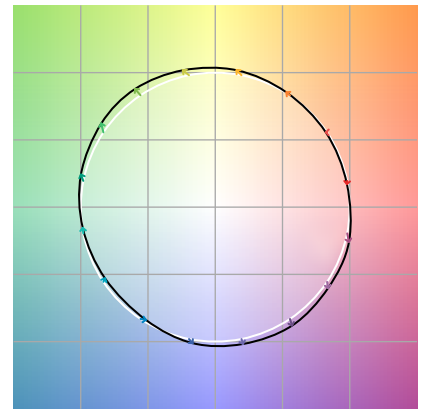
R_g 104.1
Gammut index R_g



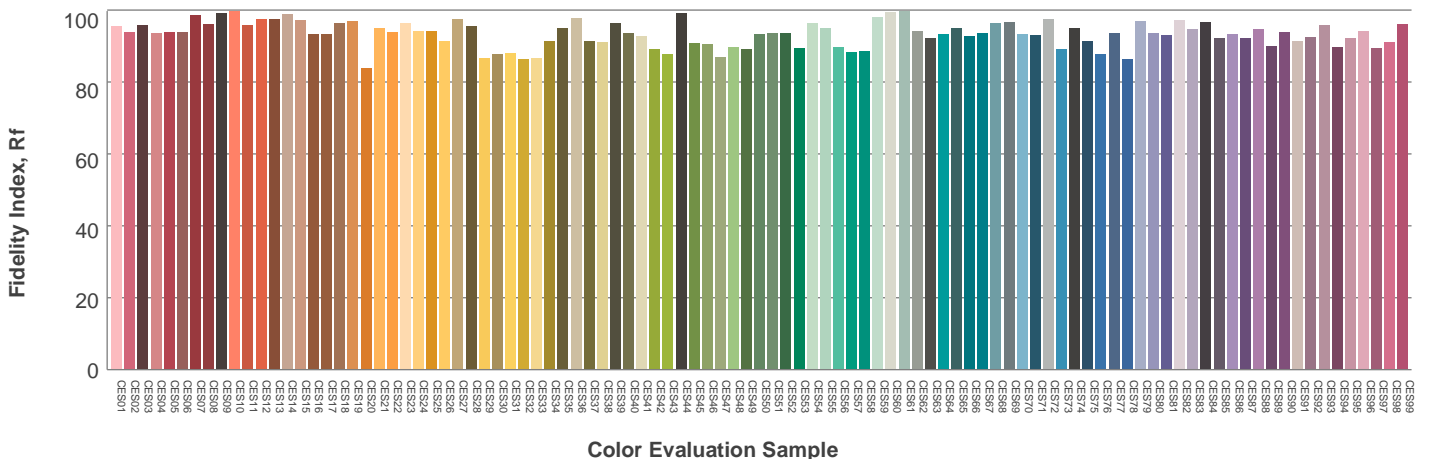
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-2%
2	97	-1%	1%
3	93	0%	3%
4	92	3%	4%
5	93	4%	4%
6	91	6%	1%
7	89	5%	-5%
8	92	3%	-4%
9	94	0%	-4%
10	95	-2%	-1%
11	93	-2%	4%
12	92	2%	3%
13	95	4%	0%
14	94	5%	-1%
15	93	3%	-3%
16	92	3%	-6%



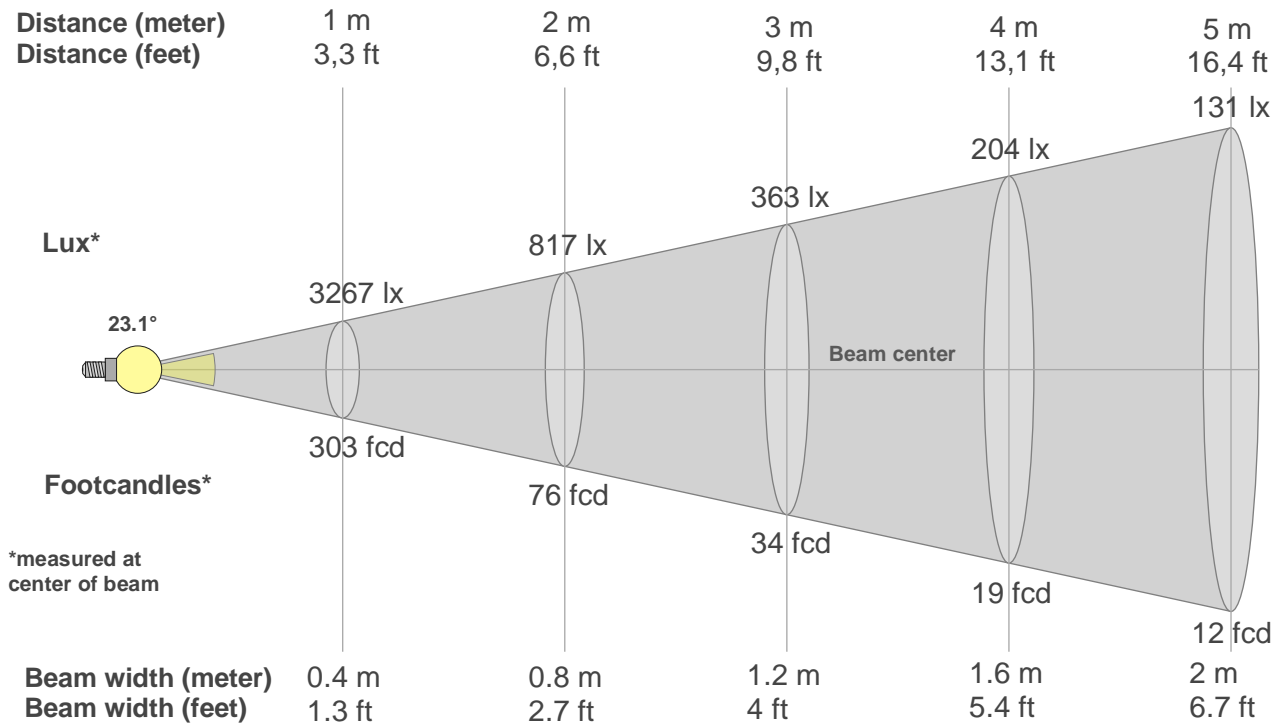
Color vector graphics



Color distortion



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
3267lx	817lx	363lx	204lx	131lx	91lx	67lx	51lx	40lx	33lx	27lx	23lx	19lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx
303.5fcd	75.9fcd	33.7fcd	19fcd	12.1fcd	8.4fcd	6.2fcd	4.7fcd	3.7fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.8fcd

Intensities in 0° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3267	3200	3002	2699	2325	1921	1558	1249	998	804	663	561	479	393	277	156	42	23	18	15
100%	98%	92%	83%	71%	59%	48%	38%	31%	25%	20%	17%	15%	12%	8%	5%	1%	1%	1%	0%

Intensities in 90° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3267	3194	2995	2700	2321	1927	1554	1239	984	790	654	559	482	401	296	141	36	24	19	15
100%	98%	92%	83%	71%	59%	48%	38%	30%	24%	20%	17%	15%	12%	9%	4%	1%	1%	1%	0%

Intensities in 180° c-plane

0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3267	3200	3002	2699	2325	1921	1558	1249	998	804	663	561	479	393	277	156	42	23	18	15
100%	98%	92%	83%	71%	59%	48%	38%	31%	25%	20%	17%	15%	12%	8%	5%	1%	1%	1%	0%

Intensities in 270° c-plane

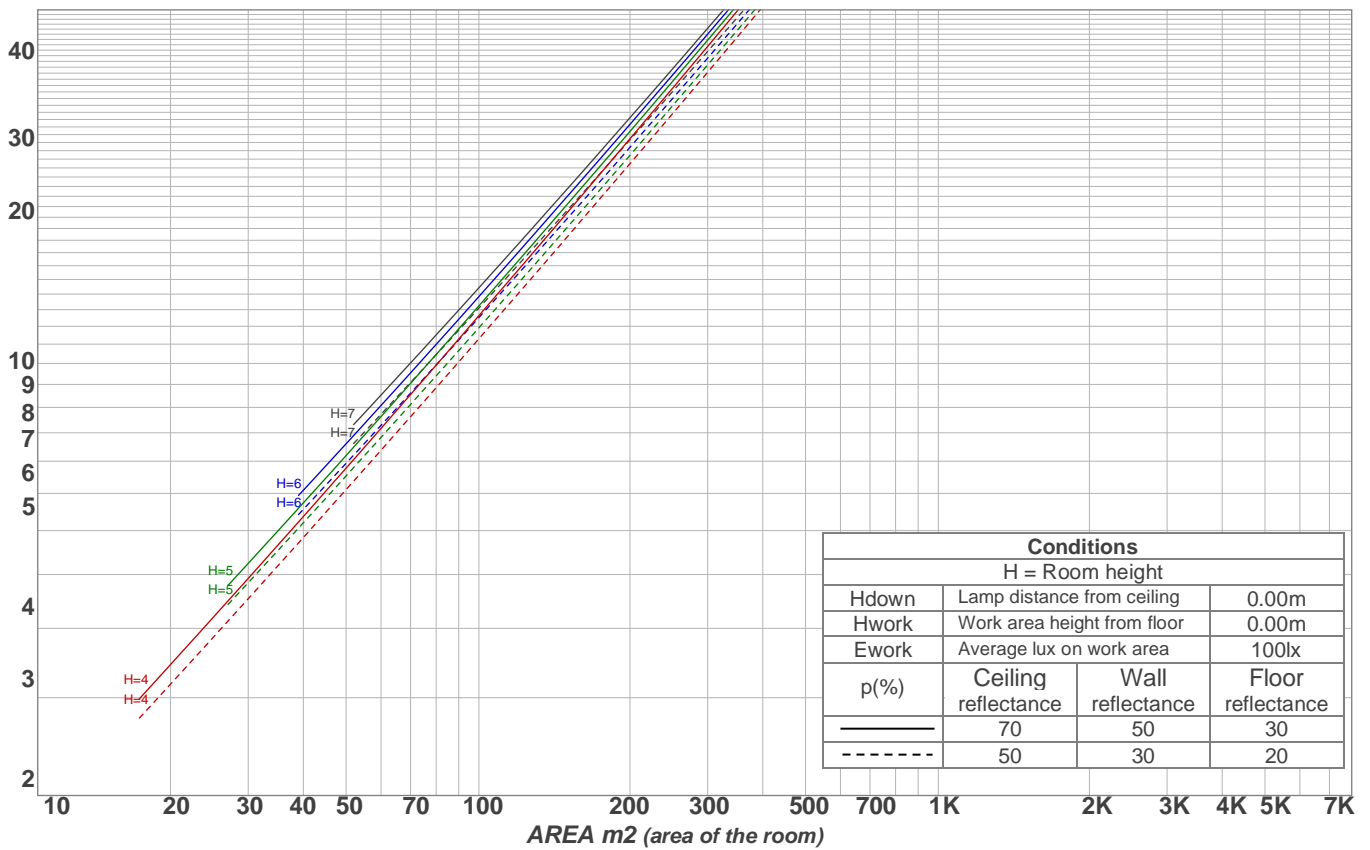
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3267	3194	2995	2700	2321	1927	1554	1239	984	790	654	559	482	401	296	141	36	24	19	15
100%	98%	92%	83%	71%	59%	48%	38%	30%	24%	20%	17%	15%	12%	9%	4%	1%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.1°	54.9°	62.1°	99.4%	98.6%

Light planning

Luminaire budgetary diagram

LAMPS (number of lamps)
50



Luminaire budgetary diagram
AREA m2 (area of the room)
Coefficients of Utilization

Ceiling reflectance	80				70				50			30			10			0			
Wall reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
Floor reflectance	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
RCR	(RCR: Room Cavity Ratio)																				
	Room Values are expressed as percentage of Lumens delivered to the task surface																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	115	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96	96	96	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92	92	92	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	89	89	89
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86	86	86	86
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83	83	83	83
6	97	90	86	83	96	89	85	82	88	85	82	87	84	81	86	83	81	80	80	80	80
7	94	87	83	79	93	86	82	79	85	82	79	84	81	78	83	80	78	77	77	77	77
8	91	84	80	77	90	84	79	76	83	79	76	82	78	76	81	78	76	75	75	75	75
9	88	81	77	74	87	81	77	74	80	76	74	79	76	73	79	76	73	72	72	72	72
10	86	79	74	72	85	78	74	72	78	74	71	77	74	71	76	73	71	70	70	70	70

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
242 lm	313 lm	190 lm	19.9 lm	5.48 lm	4.06 lm	2.29 lm	1.60 lm	1.00 lm
90°-100°	100°-110°	110°-120°	120°-130°	130°-140°	140°-150°	150°-160°	160°-170°	170°-180°
0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm	0.000 lm

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	16.7	17.1	16.7	17.3	17.5	16.2	16.6	16.3	16.8	17.0
	3H	17.2	17.8	17.5	18.0	18.1	16.5	17.1	16.9	17.3	17.5
	4H	17.7	18.2	18.1	18.5	18.7	17.0	17.5	17.4	17.8	18.0
	6H	18.3	18.7	18.6	19.0	19.4	17.6	18.0	17.9	18.3	18.7
	8H	18.5	19.0	18.8	19.3	19.7	17.8	18.3	18.1	18.6	19.0
	12H	18.9	19.3	19.2	19.7	20.1	18.2	18.6	18.5	19.0	19.4
4H	2H	16.7	17.3	17.1	17.5	17.7	16.3	16.9	16.7	17.1	17.3
	3H	17.6	18.1	18.0	18.4	18.8	17.0	17.5	17.4	17.8	18.3
	4H	18.3	18.7	18.7	19.1	19.6	17.6	18.0	18.0	18.5	19.0
	6H	19.0	19.5	19.5	19.8	20.1	18.4	18.8	18.9	19.1	19.5
	8H	19.3	19.8	19.8	20.1	20.5	18.7	19.1	19.2	19.5	19.8
	12H	19.8	20.1	20.3	20.5	21.0	19.2	19.5	19.7	19.9	20.4
8H	4H	18.5	18.9	19.0	19.2	19.6	17.9	18.4	18.4	18.7	19.0
	6H	19.4	19.7	19.9	20.2	20.7	18.9	19.2	19.4	19.6	20.1
	8H	20.0	20.2	20.5	20.7	21.3	19.4	19.6	19.9	20.1	20.7
	12H	20.6	20.8	21.2	21.3	21.9	20.1	20.3	20.7	20.8	21.4
12H	4H	18.5	18.8	19.0	19.2	19.7	17.9	18.3	18.4	18.7	19.1
	6H	19.6	19.8	20.1	20.3	20.9	19.0	19.2	19.5	19.8	20.4
	8H	20.1	20.3	20.7	20.8	21.4	19.6	19.7	20.2	20.2	20.8
Corrected glare indices referring to 779 lm total luminous flux											