

Light efficiency:



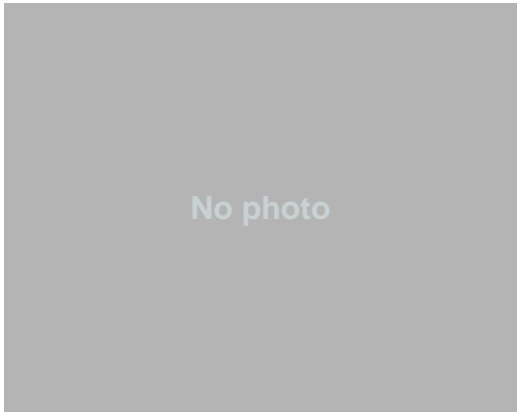
Output: 622 lm

Light quality:

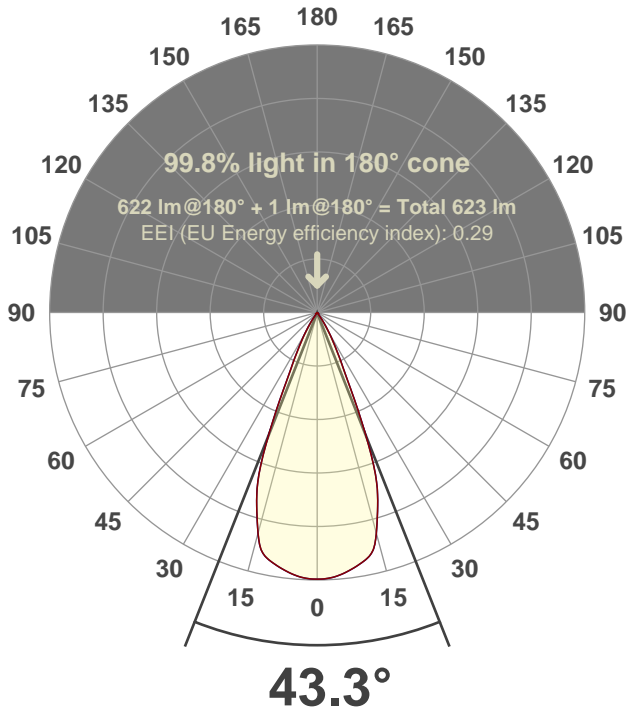


Peak: 1285 cd

Power: 15.0 W



Beam angle



Test number:

CR4D-R-FL-A14-30k-55 (GRF-AD-WF-RD)

Luminaire Model:

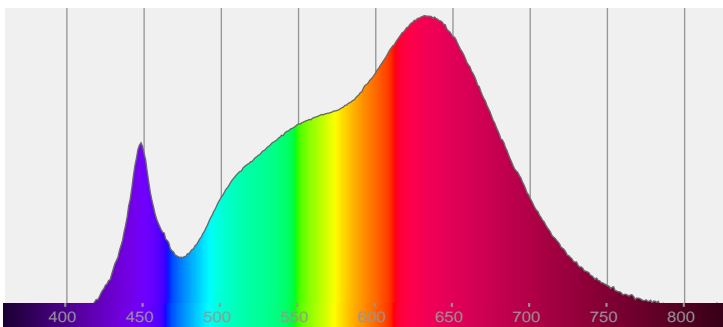
Core 4" Round Flat A14 30K 55°

Date and time:

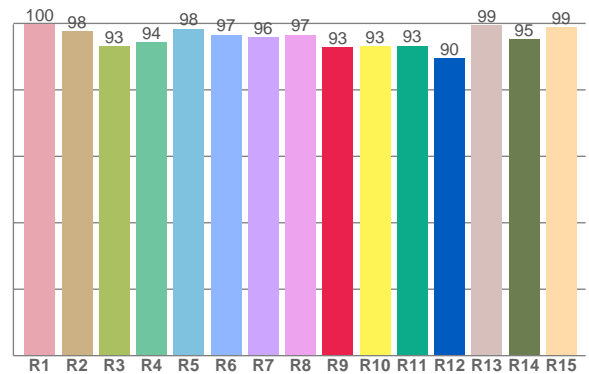
8/10/2017 12:33:57 PM

LUM: 622

Spectra



CRI: 96.5 (R1-R8)



Color parameters

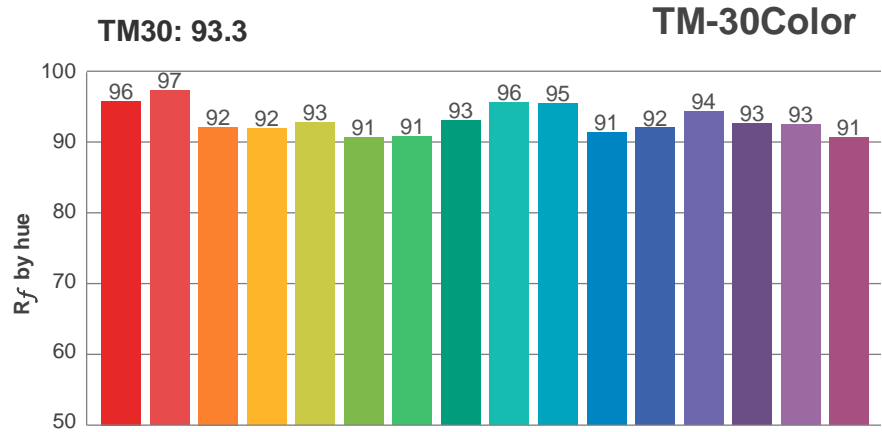
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.5	92.7	93.3	104.6	93.2	0.428	0.395	0.249	0.344	-0.0023

R_f 93.3

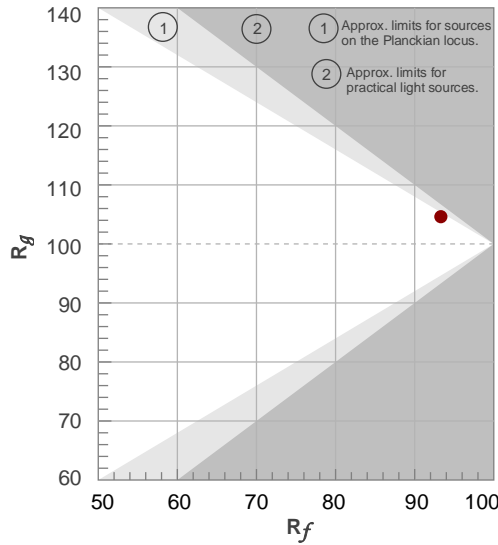
Fidelity index R_f

R_g 104.6

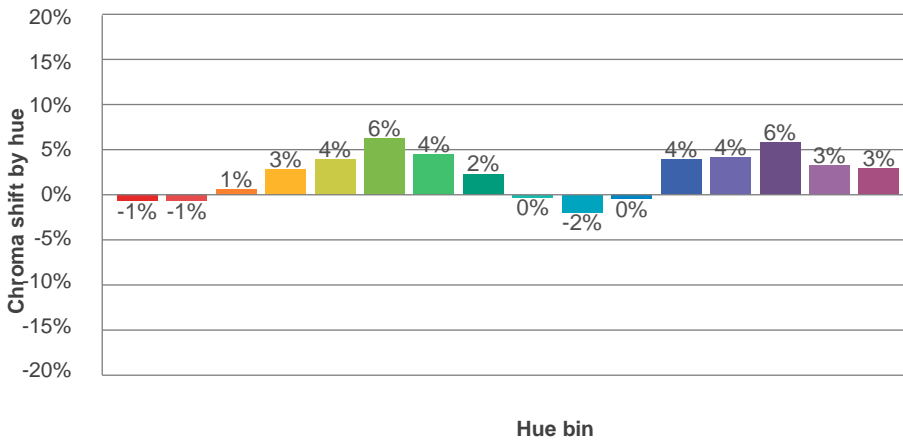
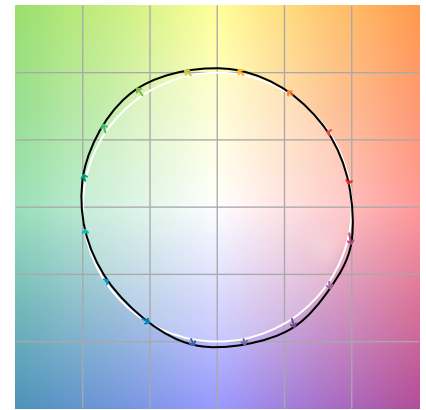
Gammut index R_g



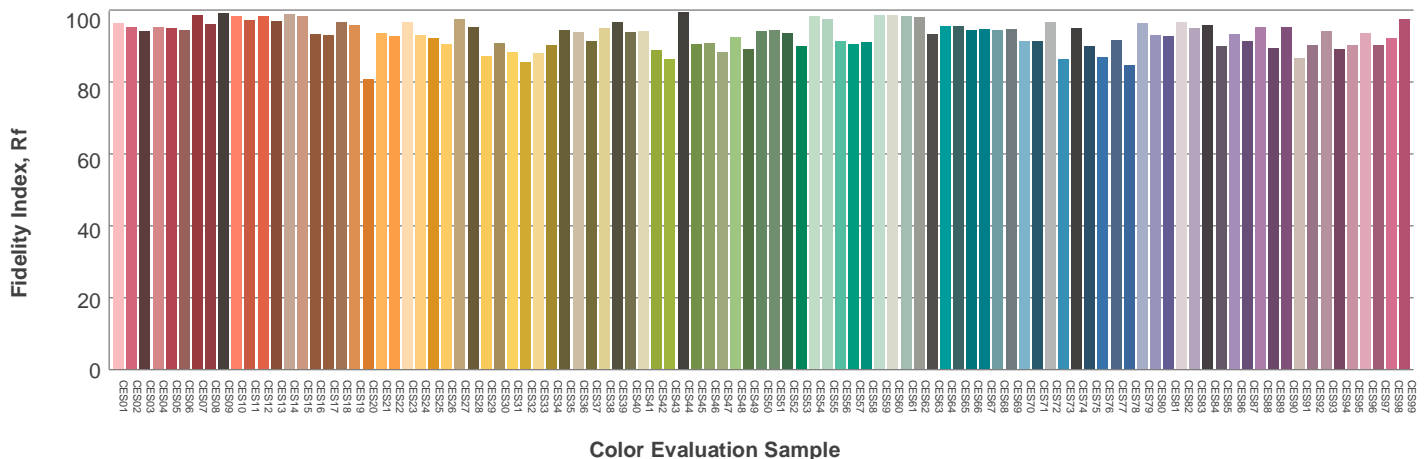
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	-1%	-2%
2	97	-1%	1%
3	92	1%	4%
4	92	3%	4%
5	93	4%	4%
6	91	6%	0%
7	91	4%	-4%
8	93	2%	-4%
9	96	0%	-3%
10	95	-2%	0%
11	91	0%	5%
12	92	4%	3%
13	94	4%	0%
14	93	6%	-2%
15	93	3%	-4%
16	91	3%	-7%



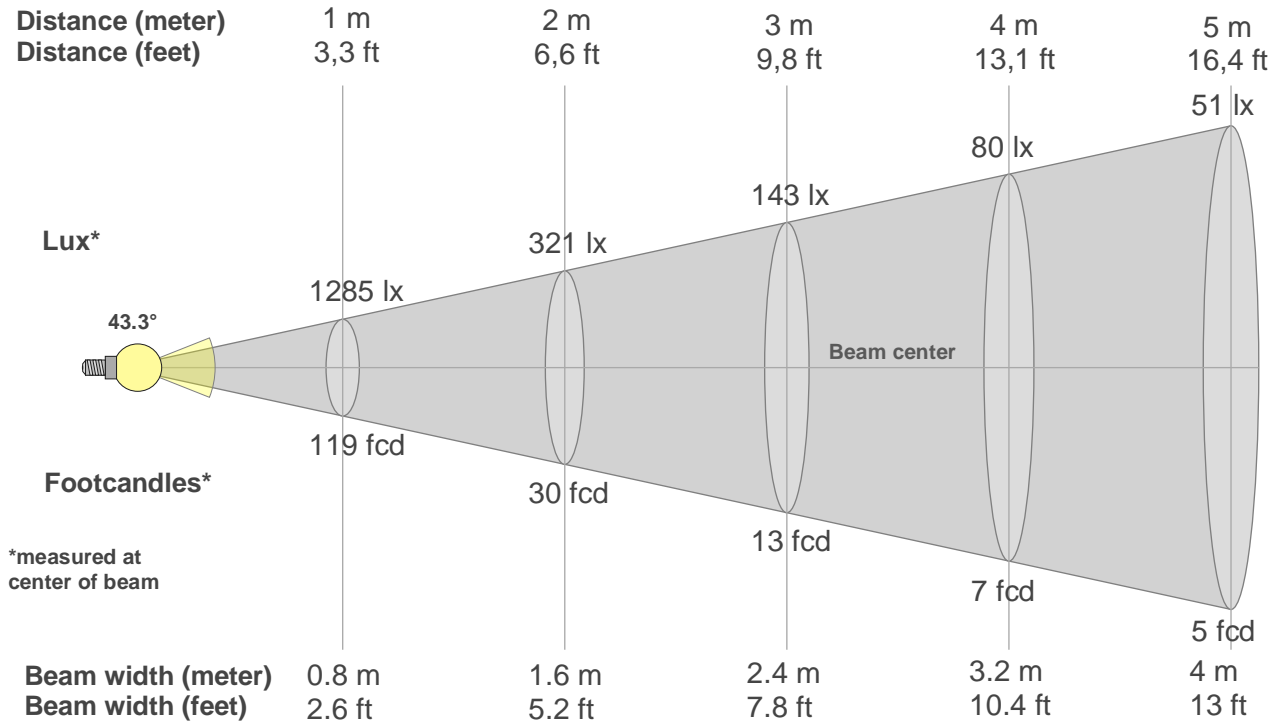
Color vector graphics



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
1285lx	321lx	143lx	80lx	51lx	36lx	26lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	4lx	3lx
119.4fcd	29.8fcd	13.3fcd	7.5fcd	4.8fcd	3.3fcd	2.4fcd	1.9fcd	1.5fcd	1.2fcd	1fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd

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°
1285	1283	1275	1262	1245	1226	1202	1149	1050	945	813	599	383	263	187	134	90	57	32	15
100%	100%	99%	98%	97%	95%	94%	89%	82%	74%	63%	47%	30%	20%	15%	10%	7%	4%	2%	1%

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°
1285	1283	1275	1262	1245	1226	1202	1149	1050	945	813	599	383	263	187	134	90	57	32	15
100%	100%	99%	98%	97%	95%	94%	89%	82%	74%	63%	47%	30%	20%	15%	10%	7%	4%	2%	1%

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°
1285	1283	1275	1262	1245	1226	1202	1149	1050	945	813	599	383	263	187	134	90	57	32	15
100%	100%	99%	98%	97%	95%	94%	89%	82%	74%	63%	47%	30%	20%	15%	10%	7%	4%	2%	1%

Intensities in 270° c-plane

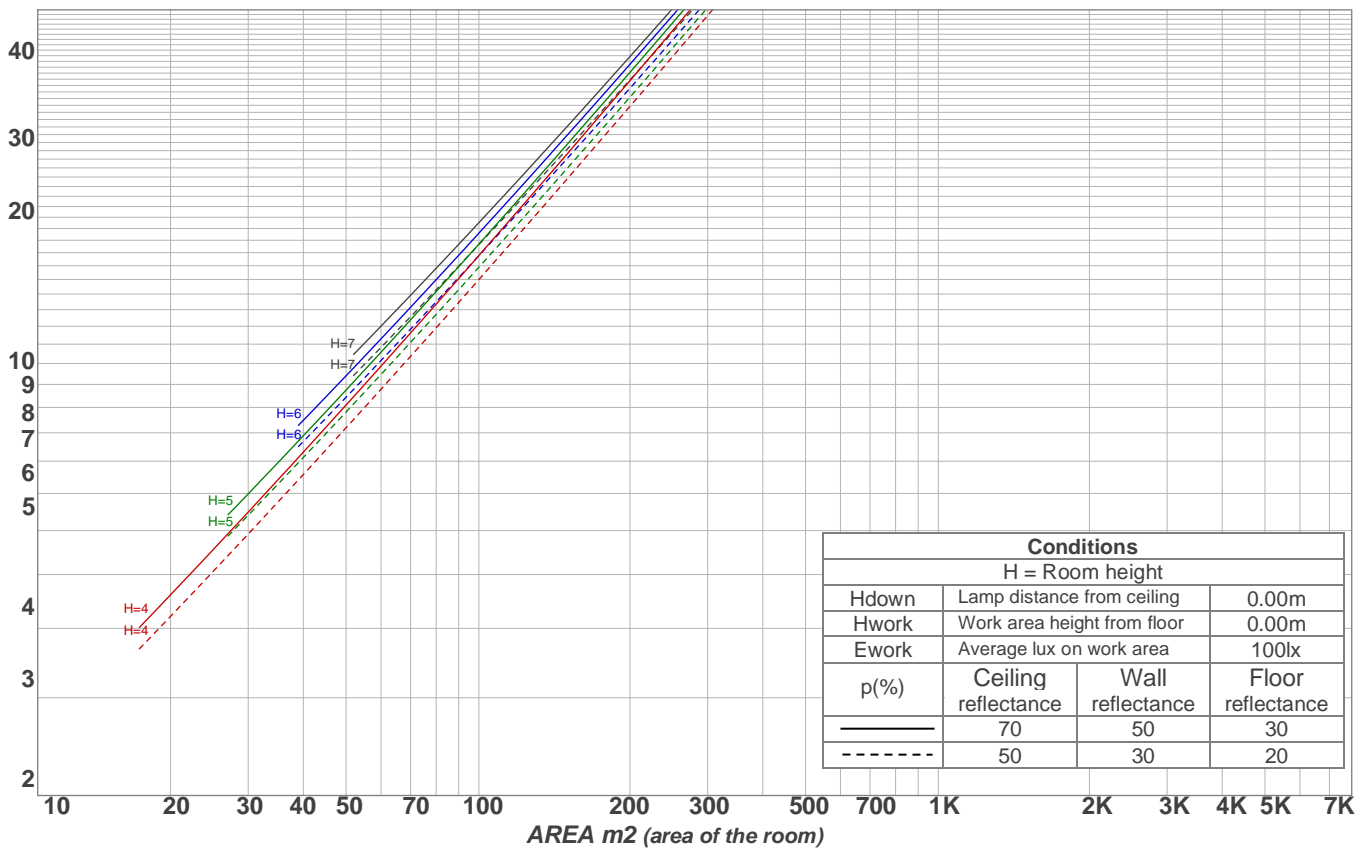
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1285	1283	1275	1262	1245	1226	1202	1149	1050	945	813	599	383	263	187	134	90	57	32	15
100%	100%	99%	98%	97%	95%	94%	89%	82%	74%	63%	47%	30%	20%	15%	10%	7%	4%	2%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
43.3°	60.5°	72°	99.1%	98.8%

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95	95	95	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91	91	91	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87	87	87	87
4	102	96	91	88	100	95	91	87	93	89	86	91	88	86	89	87	85	83	83	83	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80	80	80	80
6	95	88	83	79	93	87	82	79	85	82	79	84	81	78	83	80	78	76	76	76	76
7	91	84	79	76	90	83	79	76	82	78	75	81	78	75	80	77	75	73	73	73	73
8	88	81	76	73	87	80	76	72	79	75	72	78	75	72	77	74	72	70	70	70	70
9	85	77	73	70	84	77	73	69	76	72	69	75	72	69	75	71	69	68	68	68	68
10	82	75	70	67	81	74	70	67	73	69	67	73	69	66	72	69	66	65	65	65	65

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
120 lm	299 lm	165 lm	31.1 lm	1.73 lm	1.42 lm	1.57 lm	1.33 lm	1.01 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	19.8	20.3	19.9	20.5	20.7	19.8	20.3	19.9	20.5	20.7
	3H	19.7	20.3	20.0	20.5	20.7	19.7	20.3	20.0	20.5	20.7
	4H	19.8	20.4	20.2	20.6	20.9	19.8	20.4	20.2	20.6	20.9
	6H	20.1	20.6	20.4	20.9	21.3	20.1	20.6	20.4	20.9	21.3
	8H	20.4	20.8	20.7	21.2	21.5	20.4	20.8	20.7	21.2	21.5
	12H	20.6	21.1	21.0	21.5	21.9	20.6	21.1	21.0	21.5	21.9
4H	2H	19.5	20.1	19.9	20.3	20.5	19.5	20.1	19.9	20.3	20.5
	3H	19.7	20.1	20.0	20.5	20.9	19.7	20.1	20.0	20.5	20.9
	4H	19.9	20.3	20.3	20.7	21.2	19.9	20.3	20.3	20.7	21.2
	6H	20.3	20.8	20.8	21.1	21.5	20.3	20.8	20.8	21.1	21.5
	8H	20.7	21.2	21.2	21.5	21.8	20.7	21.2	21.2	21.5	21.8
	12H	21.2	21.5	21.7	21.9	22.4	21.2	21.5	21.7	21.9	22.4
8H	4H	19.9	20.4	20.4	20.7	21.1	19.9	20.4	20.4	20.7	21.1
	6H	20.6	20.9	21.1	21.4	21.9	20.6	20.9	21.1	21.4	21.9
	8H	21.3	21.5	21.8	22.0	22.6	21.3	21.5	21.8	22.0	22.6
	12H	21.9	22.1	22.5	22.6	23.2	21.9	22.1	22.5	22.6	23.2
12H	4H	19.9	20.3	20.4	20.7	21.1	19.9	20.3	20.4	20.7	21.1
	6H	20.8	21.0	21.3	21.5	22.1	20.8	21.0	21.3	21.5	22.1
	8H	21.4	21.6	22.0	22.1	22.7	21.4	21.6	22.0	22.1	22.7
Corrected glare indices referring to 622 lm total luminous flux											