

Light efficiency:



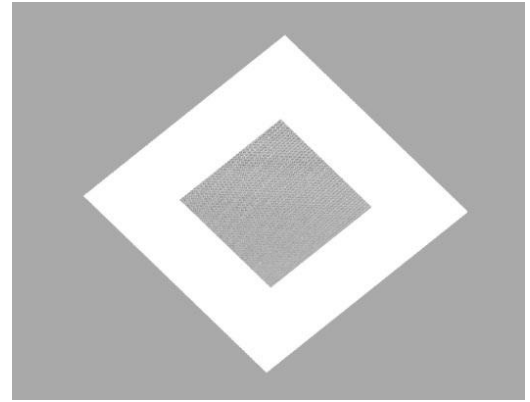
Output: 467 lm

Light quality:

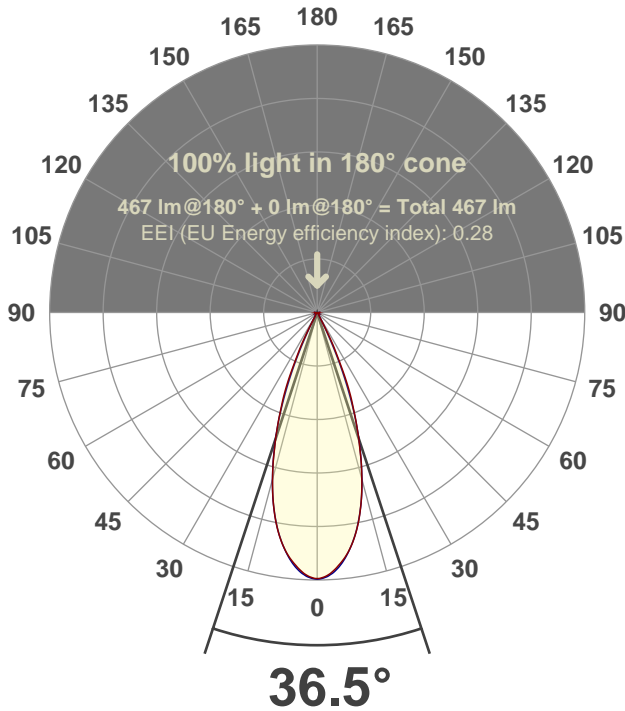


Peak: 1301 cd

Power: 15.2 W



Beam angle



Test number:

CR4D-S-FL-A14-30k-40 (GR-AD-FL-SQ)

Luminaire Model:

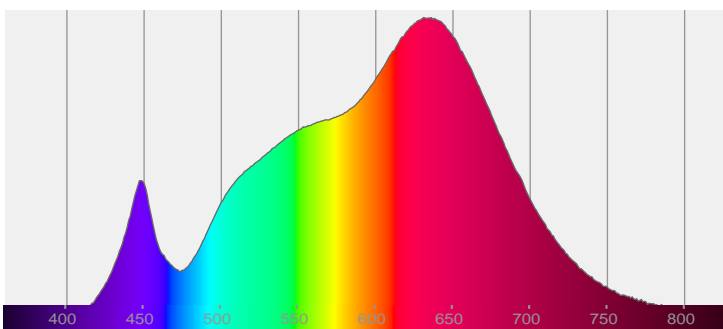
Core 4" Square Flat A14 30 to 19k 40°

Date and time:

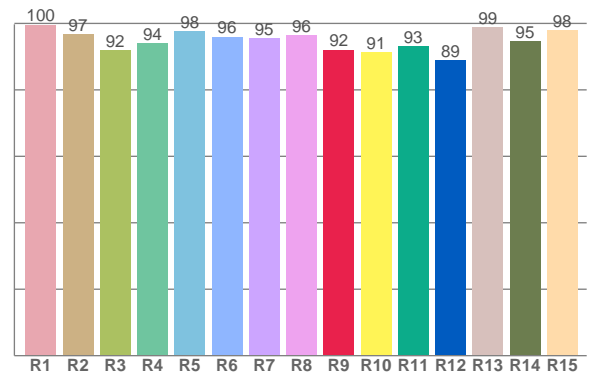
5/1/2017 2:31:41 PM

LUM: 467

Spectra



CRI: 96.0 (R1-R8)



Color parameters

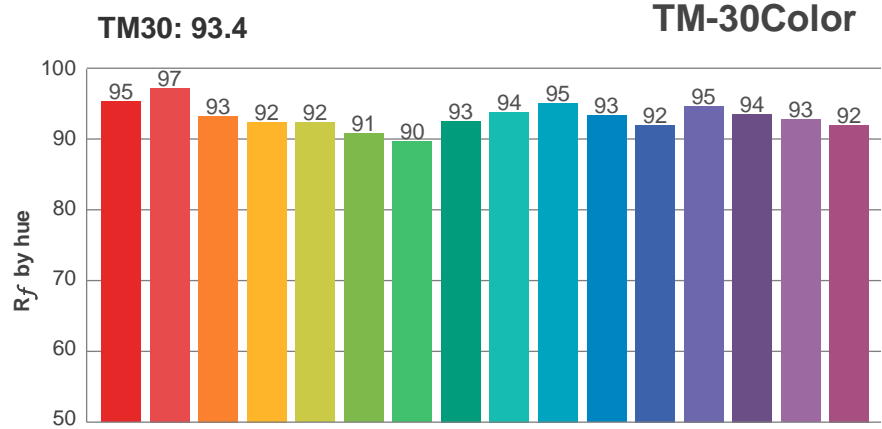
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.0	92.0	93.4	104.1	93.3	0.437	0.404	0.251	0.348	-0.0002

R_f 93.4

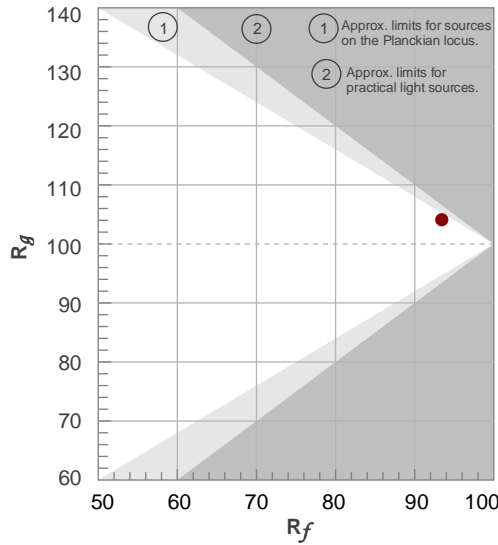
Fidelity index R_f

R_g 104.1

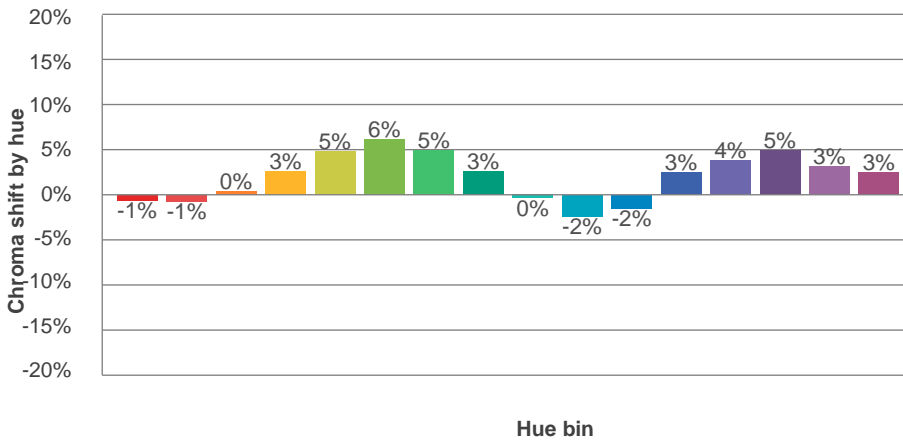
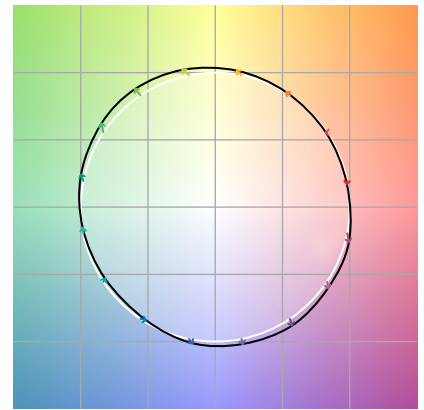
Gammut index R_g



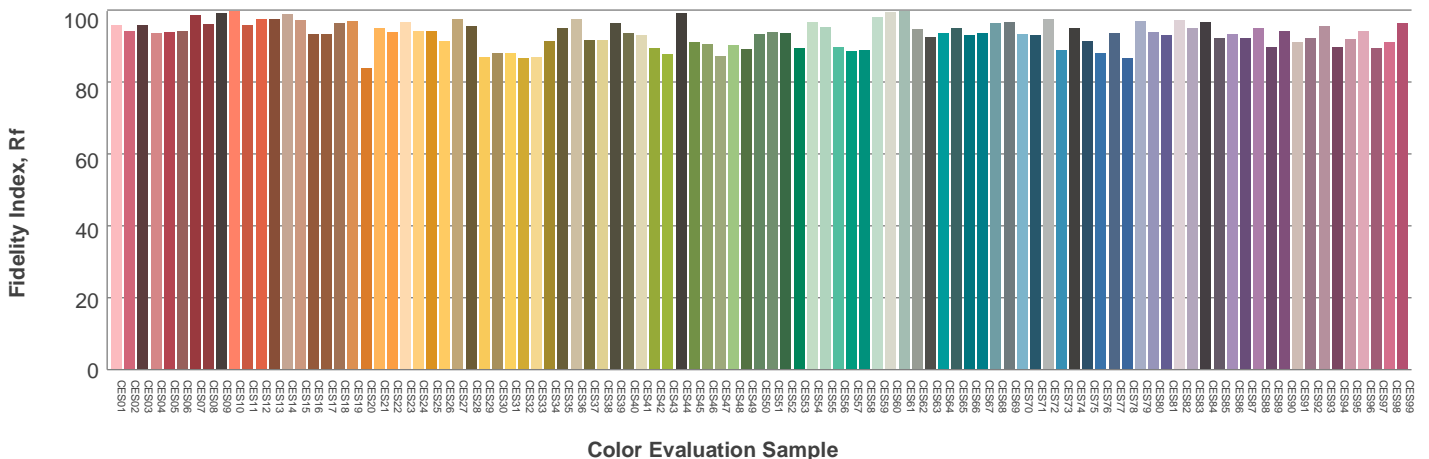
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-2%
2	97	-1%	1%
3	93	0%	3%
4	92	3%	4%
5	92	5%	4%
6	91	6%	1%
7	90	5%	-5%
8	93	3%	-4%
9	94	0%	-4%
10	95	-2%	-1%
11	93	-2%	4%
12	92	3%	3%
13	95	4%	0%
14	94	5%	-2%
15	93	3%	-3%
16	92	3%	-6%



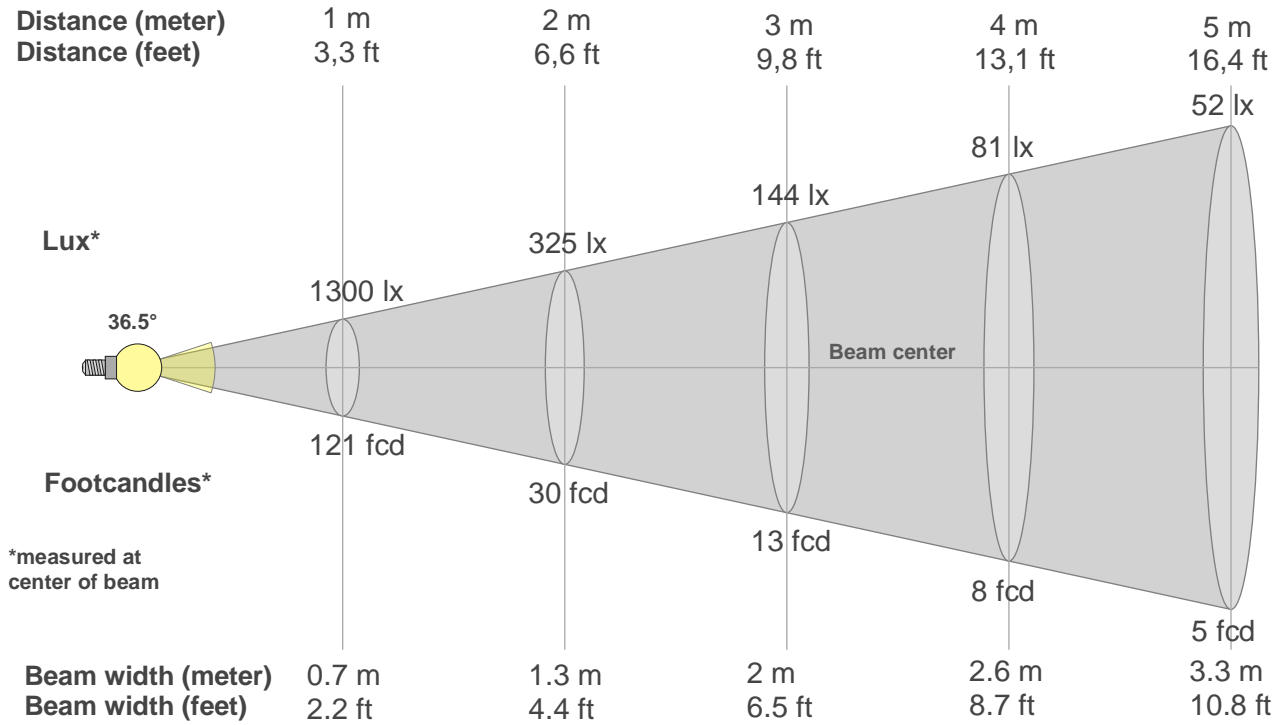
Color vector graphics



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
1300lx	325lx	144lx	81lx	52lx	36lx	27lx	20lx	16lx	13lx	11lx	9lx	8lx	7lx	6lx	5lx	4lx	4lx	4lx	3lx
120.8fcd	30.2fcd	13.4fcd	7.5fcd	4.8fcd	3.4fcd	2.5fcd	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°
1300	1287	1256	1214	1161	1091	1004	901	787	665	546	434	302	188	81	32	21	16	14	13
100%	99%	97%	93%	89%	84%	77%	69%	61%	51%	42%	33%	23%	15%	6%	2%	2%	1%	1%	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°
1300	1292	1264	1220	1161	1089	1002	902	787	667	540	401	265	139	62	32	22	18	15	13
100%	99%	97%	94%	89%	84%	77%	69%	61%	51%	42%	31%	20%	11%	5%	2%	2%	1%	1%	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°
1300	1287	1256	1214	1161	1091	1004	901	787	665	546	434	302	188	81	32	21	16	14	13
100%	99%	97%	93%	89%	84%	77%	69%	61%	51%	42%	33%	23%	15%	6%	2%	2%	1%	1%	1%

Intensities in 270° c-plane

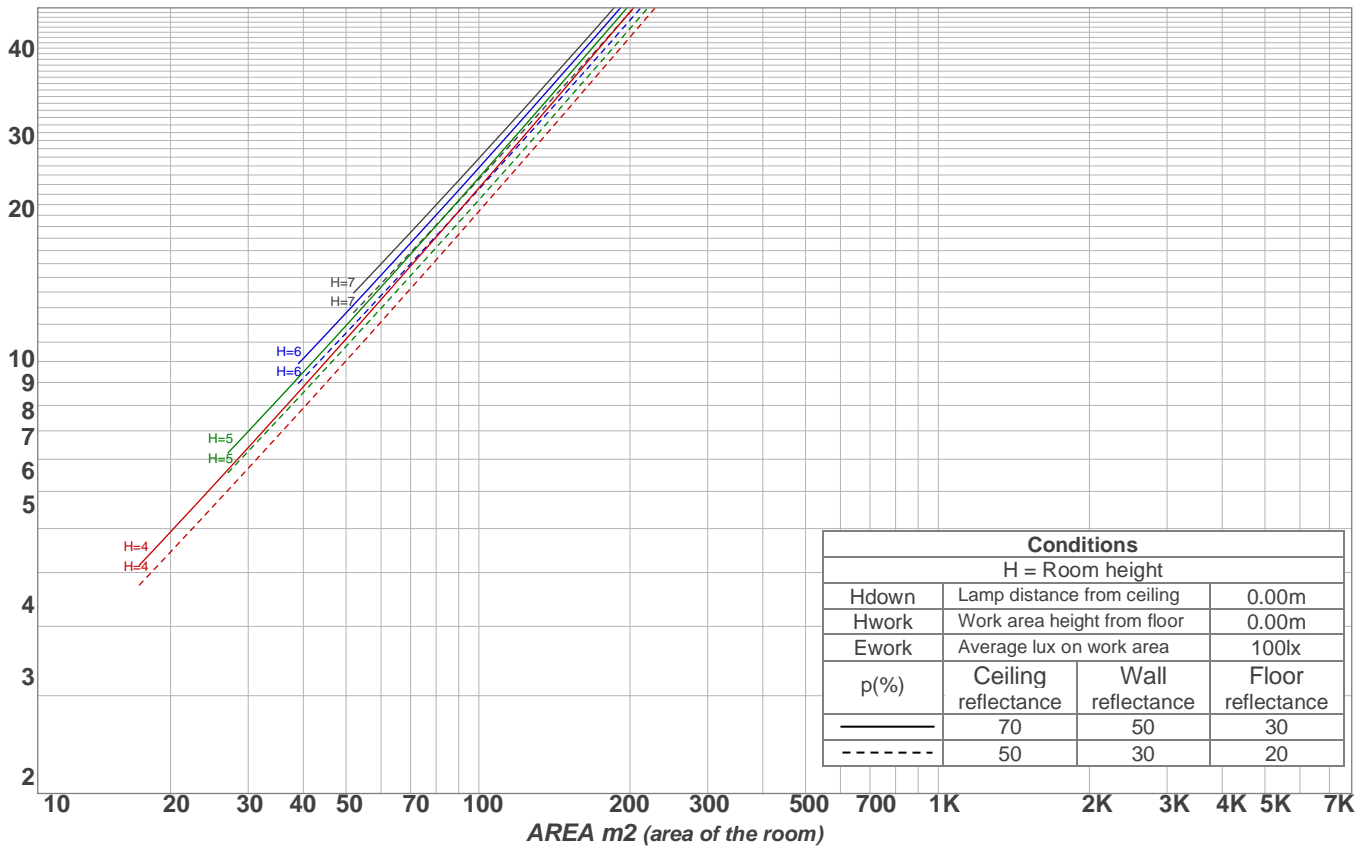
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
1300	1292	1264	1220	1161	1089	1002	902	787	667	540	401	265	139	62	32	22	18	15	13
100%	99%	97%	94%	89%	84%	77%	69%	61%	51%	42%	31%	20%	11%	5%	2%	2%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
36.5°	53.2°	59.8°	99.6%	98.5%

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	108	107	106	105	104	103	101	100	99	98	98	98	98	98	96
2	111	107	103	101	108	105	102	100	102	99	97	99	97	95	96	95	93	92	92	92	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88	88	88	88
4	103	97	93	90	101	96	92	89	94	91	88	92	89	87	90	88	86	85	85	85	85
5	99	93	89	85	98	92	88	85	90	87	84	89	86	83	88	85	83	82	82	82	82
6	96	89	85	82	95	89	84	81	87	84	81	86	83	80	85	82	80	79	79	79	79
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76	76	76	76
8	90	83	78	75	89	82	78	75	81	77	75	80	77	74	80	77	74	73	73	73	73
9	87	80	75	72	86	79	75	72	79	75	72	78	74	72	77	74	72	71	71	71	71
10	85	77	73	70	84	77	73	70	76	72	70	75	72	70	75	72	69	68	68	68	68

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
114 lm	228 lm	104 lm	10.5 lm	5.70 lm	2.65 lm	1.05 lm	0.523 lm	0.375 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	16.0	16.4	16.1	16.6	16.8	16.1	16.5	16.2	16.7	16.9
	3H	16.0	16.6	16.4	16.8	17.0	16.0	16.6	16.4	16.8	17.0
	4H	16.0	16.6	16.4	16.9	17.1	16.0	16.6	16.4	16.9	17.1
	6H	16.2	16.7	16.5	17.0	17.3	16.2	16.7	16.5	17.0	17.3
	8H	16.3	16.8	16.6	17.1	17.5	16.3	16.7	16.6	17.1	17.4
	12H	16.5	16.9	16.8	17.3	17.7	16.4	16.8	16.7	17.2	17.6
4H	2H	15.8	16.4	16.2	16.6	16.9	15.9	16.5	16.3	16.7	16.9
	3H	16.1	16.6	16.5	16.9	17.3	16.1	16.6	16.5	16.9	17.4
	4H	16.2	16.6	16.6	17.0	17.5	16.1	16.6	16.6	17.0	17.5
	6H	16.3	16.8	16.8	17.1	17.5	16.3	16.8	16.8	17.1	17.5
	8H	16.5	17.0	17.0	17.3	17.7	16.5	16.9	17.0	17.3	17.6
	12H	16.8	17.1	17.3	17.5	18.0	16.6	17.0	17.1	17.4	17.8
8H	4H	16.1	16.6	16.6	16.9	17.3	16.1	16.6	16.6	16.9	17.2
	6H	16.4	16.7	16.9	17.2	17.7	16.4	16.7	16.9	17.1	17.7
	8H	16.8	17.0	17.3	17.6	18.2	16.8	17.0	17.3	17.5	18.1
	12H	17.3	17.4	17.8	17.9	18.5	17.0	17.2	17.6	17.7	18.3
12H	4H	16.1	16.4	16.6	16.8	17.3	16.1	16.4	16.6	16.8	17.3
	6H	16.5	16.7	17.0	17.3	17.9	16.5	16.7	17.0	17.2	17.8
	8H	16.9	17.1	17.5	17.6	18.2	16.8	17.0	17.4	17.5	18.1
Corrected glare indices referring to 467 lm total luminous flux											