

Light efficiency:

44 Lumen/Watt

Output: 656 lm

Light quality:

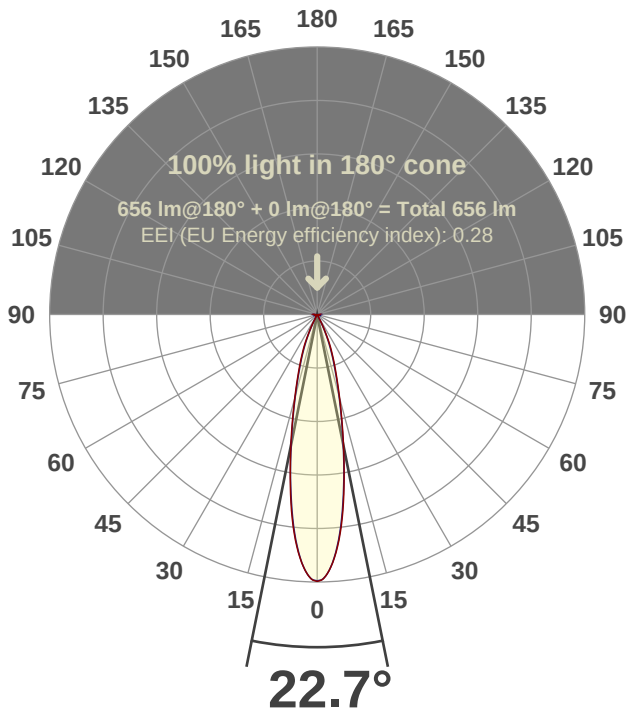
CRI: 96.1

Peak: 3189 cd

Power: 15.0 W

No photo

Beam angle



Test number:

CR4D-S-DR-A14-30k-24 (GR-AD-NF-SQ)

Luminaire Model:

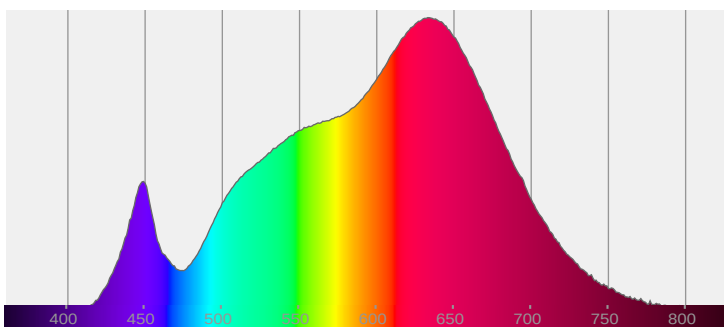
Core 4" Square Deep Regress A14 30 to 19k 24°

Date and time:

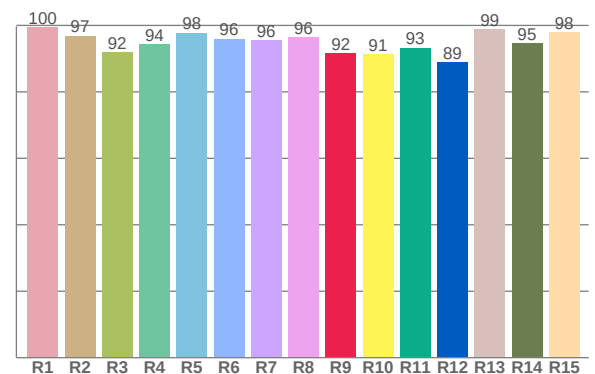
5/4/2017 3:52:19 PM

LUM: 656

Spectra



CRI: 96.1 (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
	96.1	91.6	93.5	104.0	93.3	0.437	0.404	0.251	0.348	-0.0001

R_f 93.5

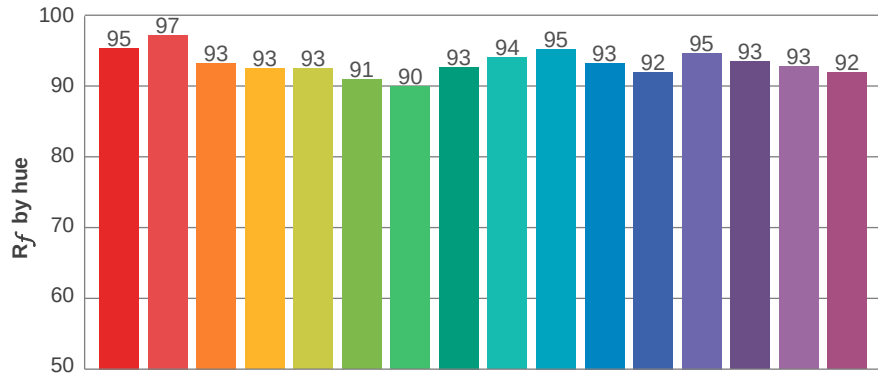
Fidelity index R_f

R_g 104.0

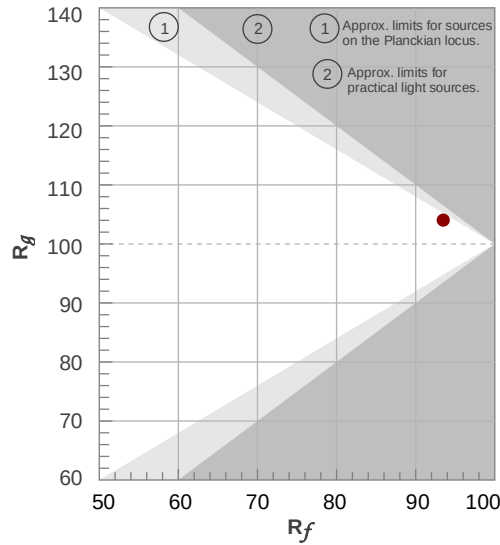
Gammut index R_g

TM30: 93.5

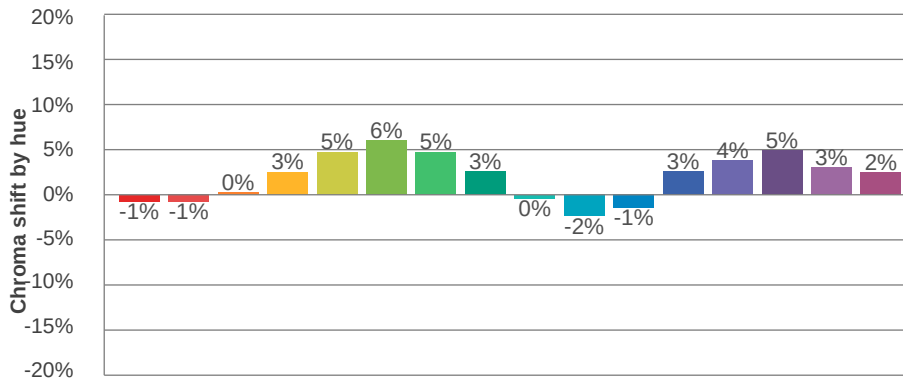
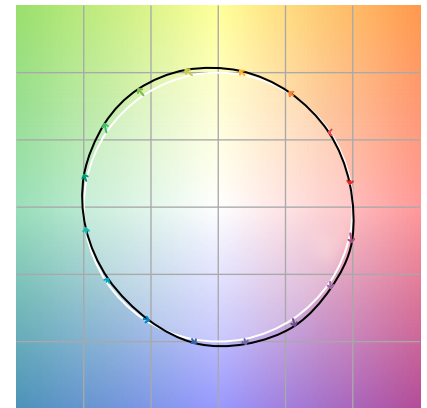
TM-30Color



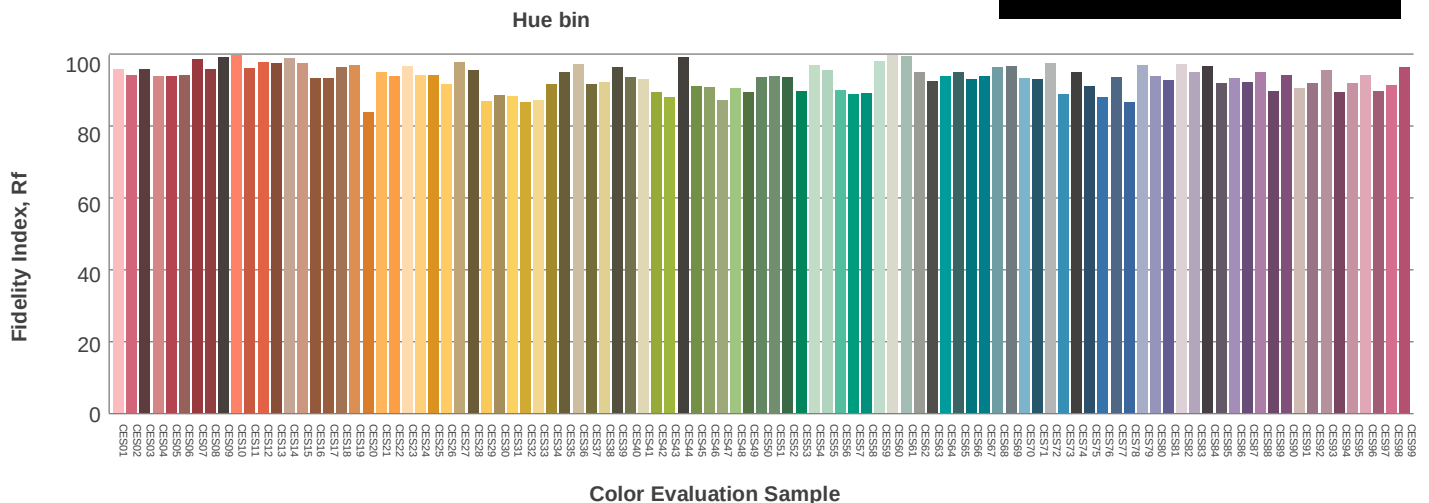
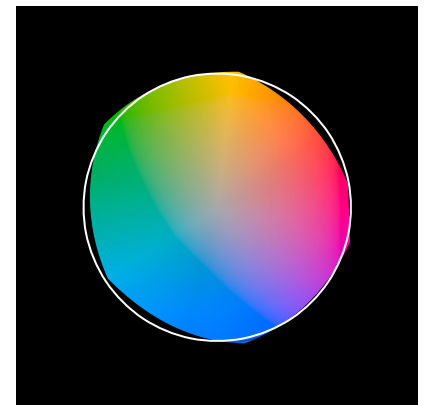
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-2%
2	97	-1%	1%
3	93	0%	3%
4	93	3%	4%
5	93	5%	4%
6	91	6%	1%
7	90	5%	-4%
8	93	3%	-4%
9	94	0%	-4%
10	95	-2%	-1%
11	93	-1%	4%
12	92	3%	3%
13	95	4%	0%
14	93	5%	-2%
15	93	3%	-3%
16	92	2%	-6%



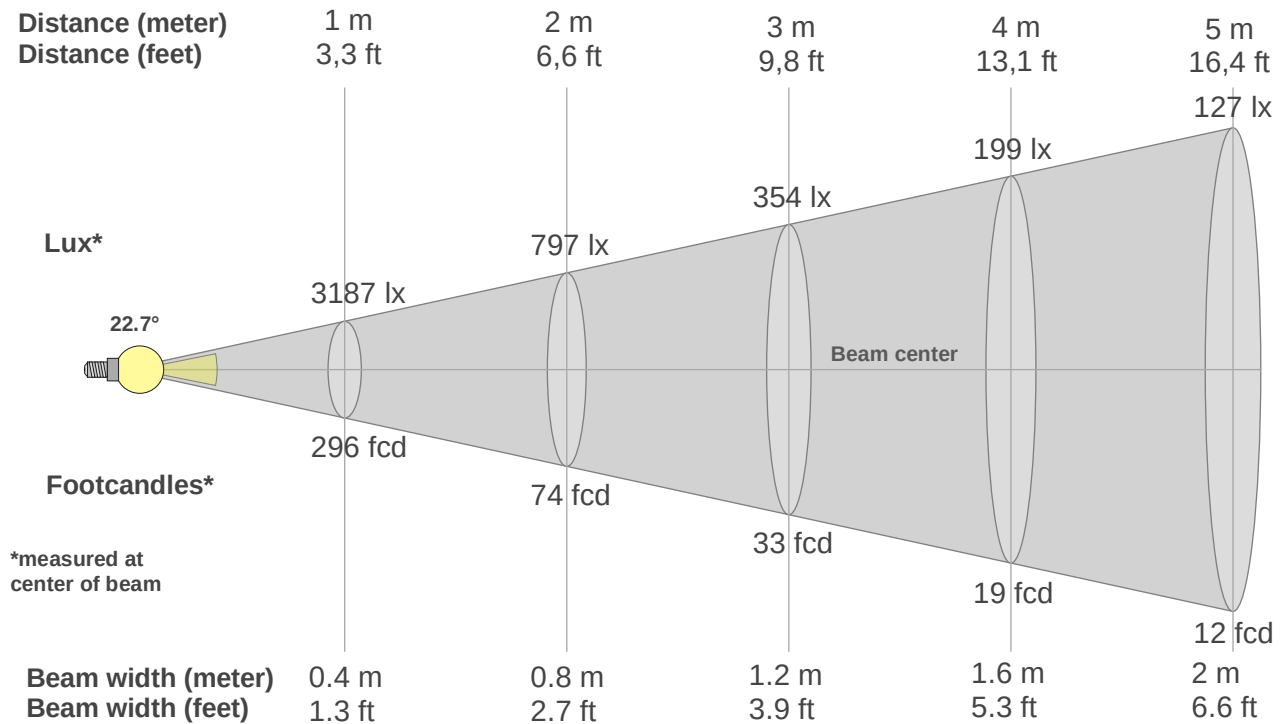
Color vector graphics



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
3187lx	797lx	354lx	199lx	127lx	89lx	65lx	50lx	39lx	32lx	26lx	22lx	19lx	16lx	14lx	12lx	11lx	10lx	9lx	8lx
296.1fcd	74fcd	32.9fcd	18.5fcd	11.8fcd	8.2fcd	6fcd	4.6fcd	3.7fcd	3fcd	2.4fcd	2.1fcd	1.8fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

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°
3187	3119	2923	2633	2262	1860	1493	1180	926	728	572	441	309	192	91	34	25	21	17	14
100%	98%	92%	83%	71%	58%	47%	37%	29%	23%	18%	14%	10%	6%	3%	1%	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°
3187	3119	2916	2610	2232	1839	1468	1154	895	692	535	396	264	143	61	33	26	22	18	15
100%	98%	91%	82%	70%	58%	46%	36%	28%	22%	17%	12%	8%	4%	2%	1%	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°
3187	3119	2923	2633	2262	1860	1493	1180	926	728	572	441	309	192	91	34	25	21	17	14
100%	98%	92%	83%	71%	58%	47%	37%	29%	23%	18%	14%	10%	6%	3%	1%	1%	1%	1%	0%

Intensities in 270° c-plane

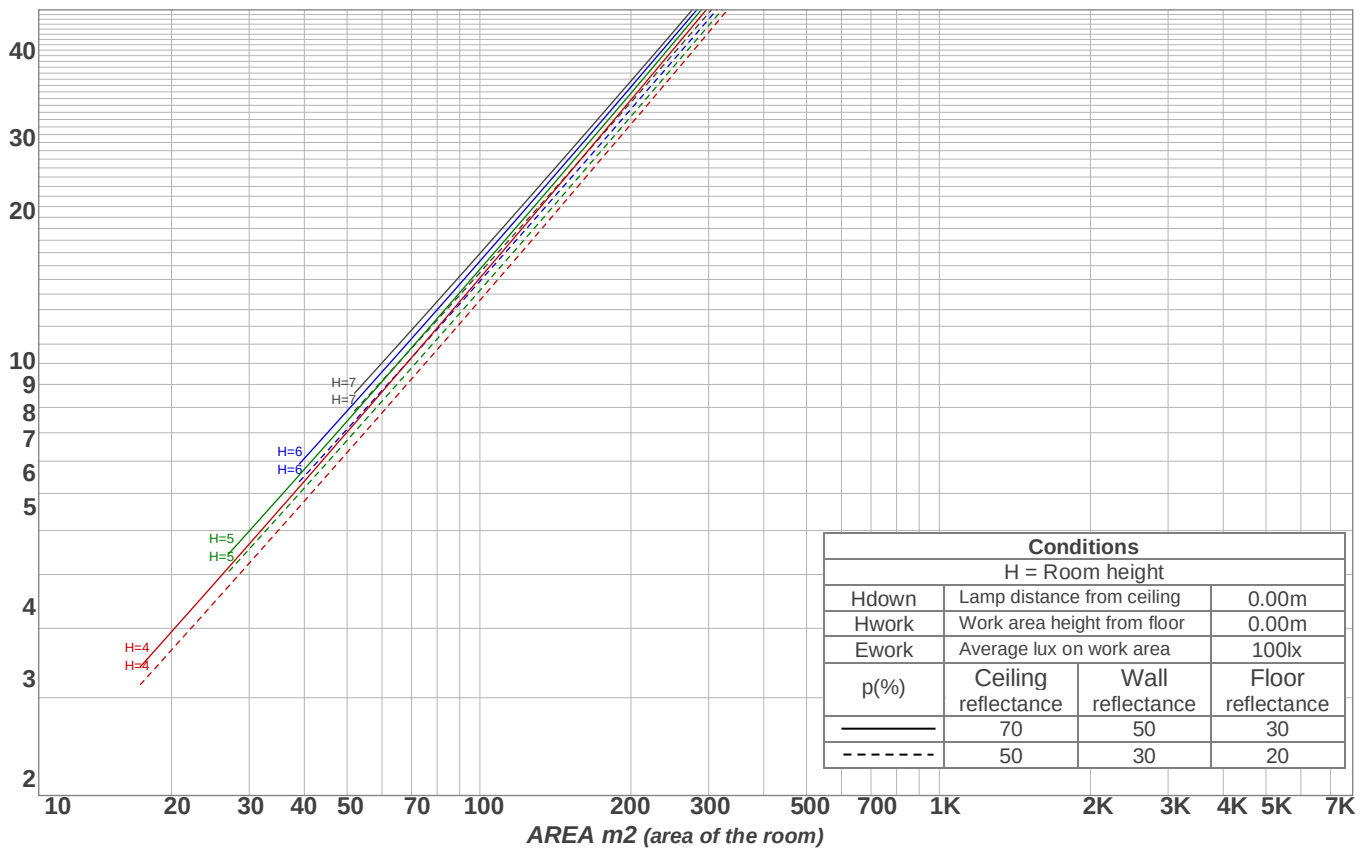
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3187	3119	2916	2610	2232	1839	1468	1154	895	692	535	396	264	143	61	33	26	22	18	15
100%	98%	91%	82%	70%	58%	46%	36%	28%	22%	17%	12%	8%	4%	2%	1%	1%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
22.7°	47°	56.6°	99.3%	98.3%

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	0
Floor reflectance	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
1	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	99	100	98	97	97	96	95	93
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90
4	104	99	95	92	103	98	94	91	96	93	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	91	88	93	90	87	91	88	86	90	88	86	84
6	98	92	88	85	97	91	87	85	90	87	84	89	86	84	88	85	83	82
7	96	89	85	82	94	89	85	82	87	84	81	86	83	81	85	83	81	80
8	93	86	82	79	92	86	82	79	85	82	79	84	81	79	83	81	78	77
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	78	76	75
10	88	82	78	75	88	81	77	75	81	77	75	80	77	75	79	76	74	74

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
234 lm	289 lm	106 lm	12.4 lm	5.82 lm	4.16 lm	2.16 lm	1.31 lm	1.08 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	16.9	17.3	16.9	17.5	17.7	16.7	17.1	16.7	17.3	17.4
	3H	17.2	17.8	17.6	18.0	18.2	17.0	17.6	17.4	17.7	17.9
	4H	17.5	18.1	17.9	18.3	18.5	17.2	17.8	17.6	18.0	18.3
	6H	18.0	18.5	18.3	18.8	19.1	17.8	18.3	18.1	18.6	18.9
	8H	18.4	18.8	18.7	19.2	19.5	18.2	18.7	18.6	19.0	19.4
	12H	18.8	19.3	19.2	19.6	20.0	18.8	19.2	19.1	19.6	20.0
4H	2H	16.9	17.5	17.3	17.7	17.9	16.7	17.3	17.1	17.5	17.8
	3H	17.7	18.1	18.0	18.4	18.8	17.4	17.9	17.8	18.2	18.6
	4H	18.0	18.4	18.5	18.9	19.4	17.8	18.2	18.2	18.6	19.1
	6H	18.7	19.1	19.2	19.5	19.8	18.5	19.0	19.0	19.3	19.6
	8H	19.2	19.6	19.7	20.0	20.3	19.1	19.5	19.6	19.8	20.2
	12H	19.8	20.1	20.3	20.5	21.0	19.8	20.2	20.3	20.6	21.0
8H	4H	18.2	18.6	18.7	19.0	19.3	18.0	18.4	18.5	18.7	19.1
	6H	19.1	19.4	19.6	19.8	20.4	19.0	19.3	19.5	19.7	20.2
	8H	19.9	20.1	20.4	20.6	21.2	19.8	20.0	20.3	20.6	21.2
	12H	20.7	20.9	21.3	21.4	22.0	20.8	21.0	21.4	21.5	22.1
12H	4H	18.2	18.5	18.7	18.9	19.4	18.0	18.3	18.5	18.7	19.2
	6H	19.3	19.5	19.8	20.0	20.7	19.2	19.4	19.7	19.9	20.5
	8H	20.1	20.3	20.7	20.8	21.4	20.1	20.3	20.7	20.8	21.4
Corrected glare indices referring to 656 lm total luminous flux											