

Light efficiency:



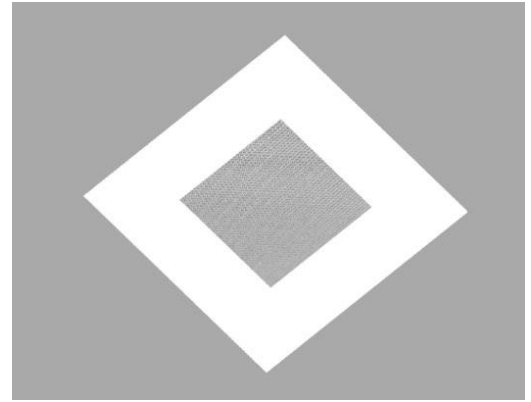
Output: 429 lm

Light quality:

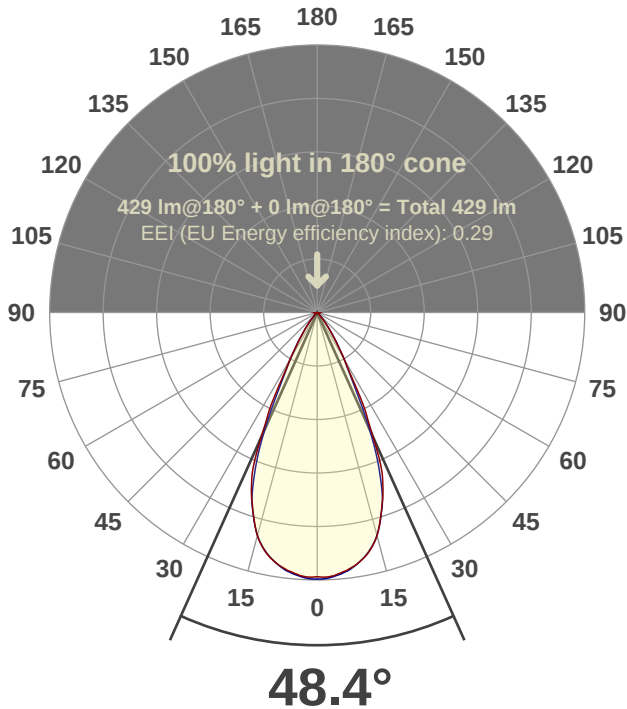


Peak: 689 cd

Power: 15.1 W



Beam angle



Test number:

CR4D-S-FL-A14-30k-55 (GR-AD-WF-SQ)

Luminaire Model:

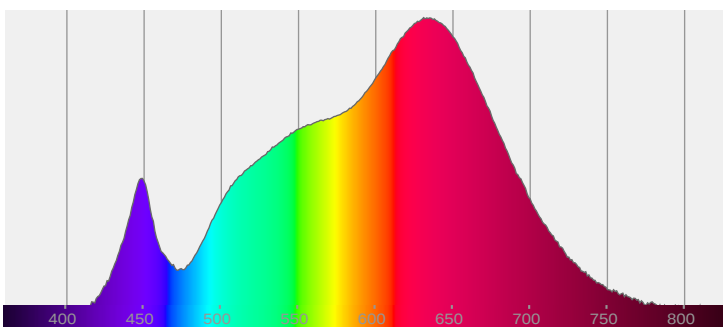
Core 4" Square Flat A14 30 to 19k 55°

Date and time:

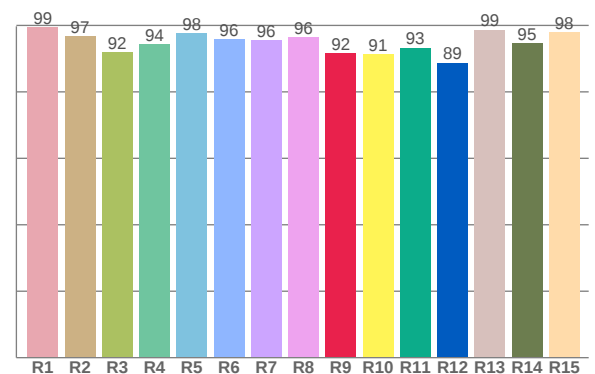
5/1/2017 2:39:18 PM

LUM: 429

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	91.6	93.4	104.1	93.3	0.436	0.403	0.250	0.347	-0.0002

R_f 93.4

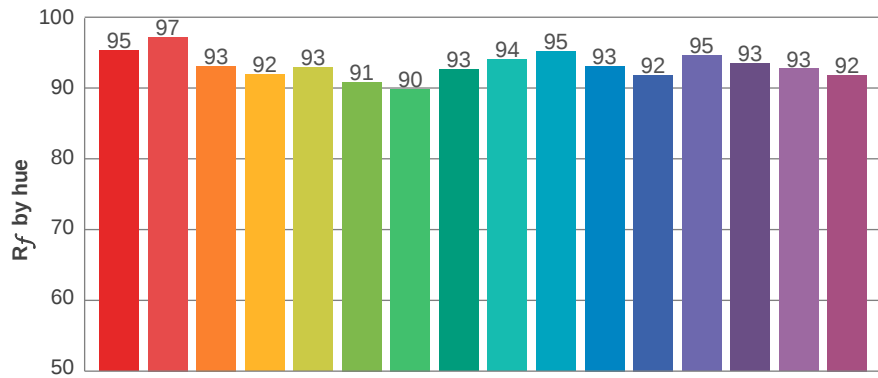
Fidelity index R_f

R_g 104.1

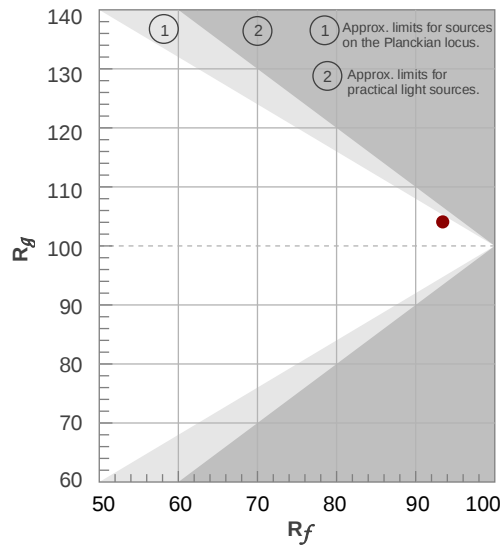
Gammut index R_g

TM30: 93.4

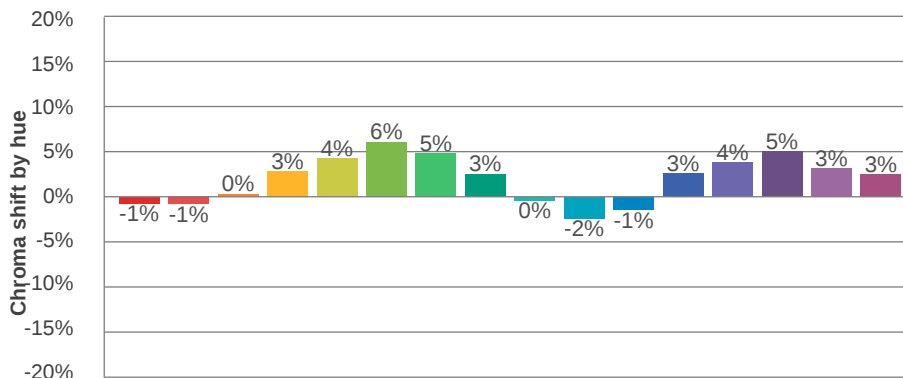
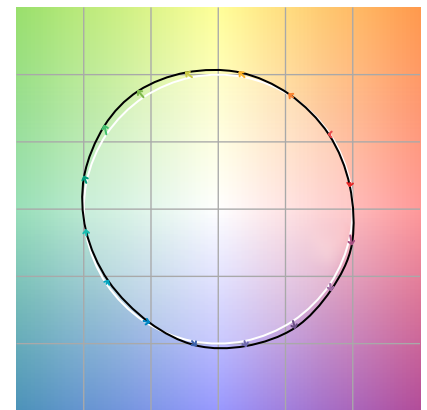
TM-30Color



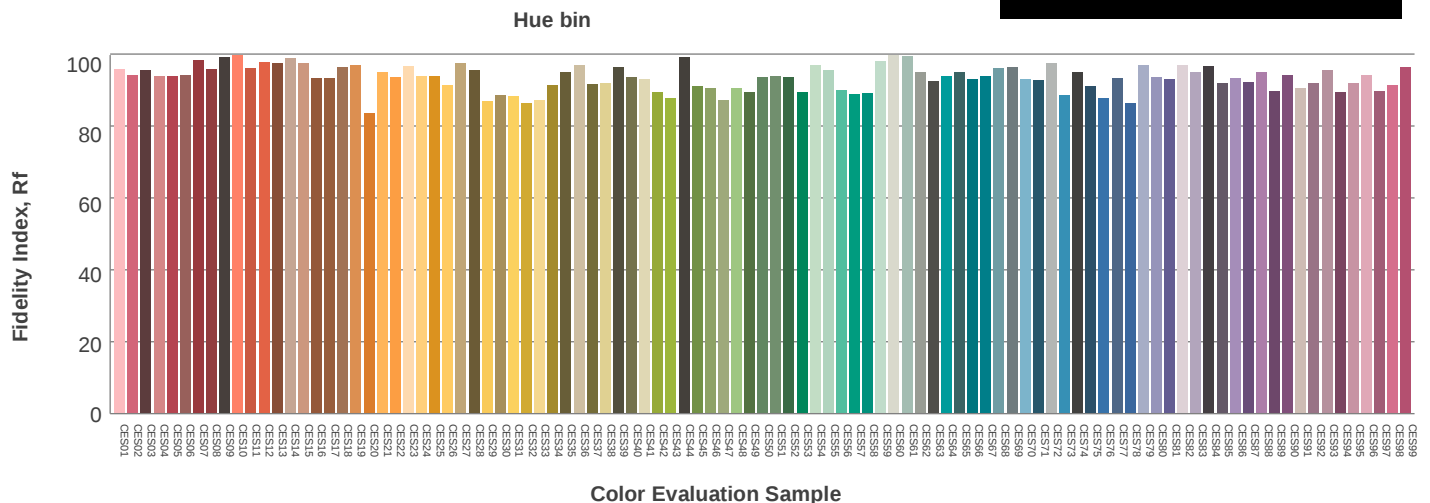
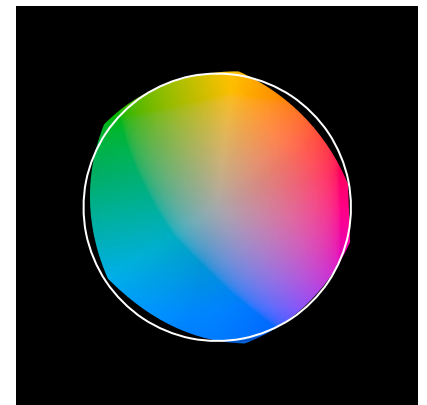
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-2%
2	97	-1%	1%
3	93	0%	4%
4	92	3%	4%
5	93	4%	4%
6	91	6%	1%
7	90	5%	-4%
8	93	3%	-4%
9	94	0%	-4%
10	95	-2%	-1%
11	93	-1%	4%
12	92	3%	3%
13	95	4%	0%
14	93	5%	-2%
15	93	3%	-4%
16	92	3%	-6%



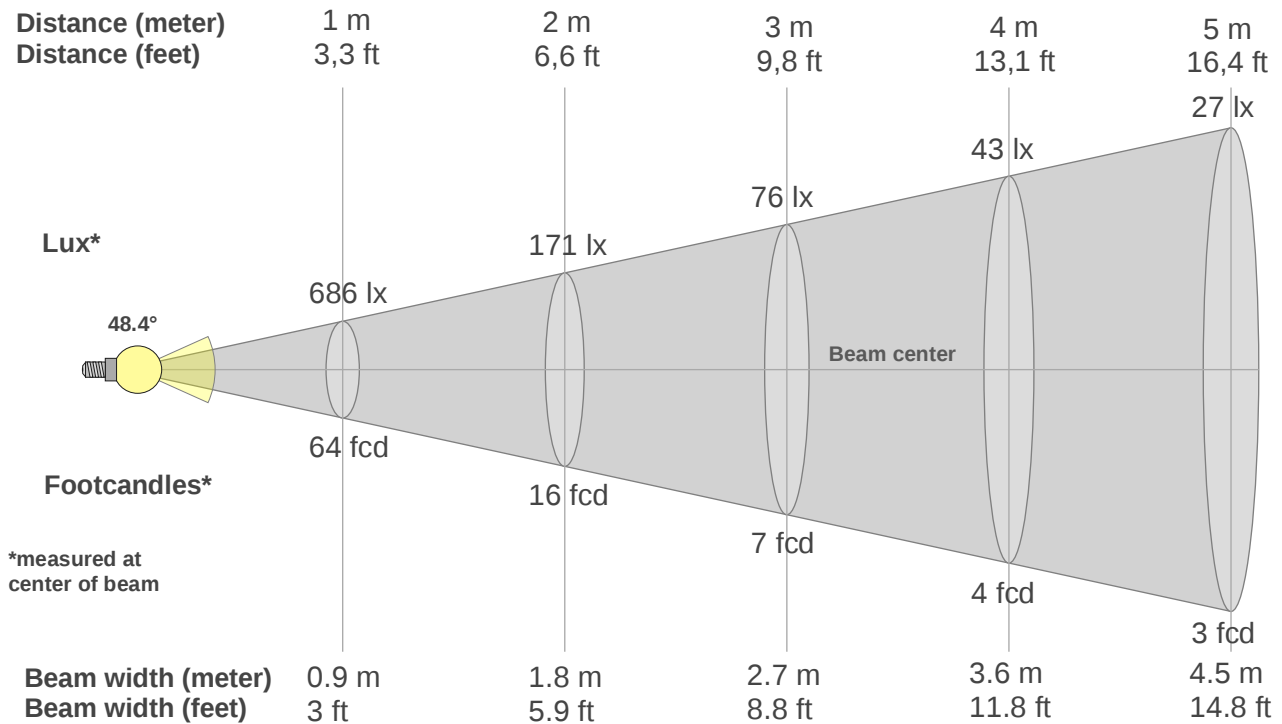
Color vector graphics



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
686lx	171lx	76lx	43lx	27lx	19lx	14lx	11lx	8lx	7lx	6lx	5lx	4lx	3lx	3lx	3lx	2lx	2lx	2lx	2lx
63.7fcd	15.9fcd	7.1fcd	4fcd	2.5fcd	1.8fcd	1.3fcd	1fcd	0.8fcd	0.6fcd	0.5fcd	0.4fcd	0.4fcd	0.3fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd	0.2fcd

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°
686	683	680	672	663	651	635	612	579	539	498	449	366	288	201	144	105	79	57	42
100%	100%	99%	98%	97%	95%	93%	89%	84%	79%	73%	66%	53%	42%	29%	21%	15%	12%	8%	6%

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°
686	687	682	675	665	651	633	611	579	539	490	422	340	250	182	141	108	82	59	44
100%	100%	99%	98%	97%	95%	92%	89%	84%	79%	72%	62%	50%	37%	27%	21%	16%	12%	9%	6%

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°
686	683	680	672	663	651	635	612	579	539	498	449	366	288	201	144	105	79	57	42
100%	100%	99%	98%	97%	95%	93%	89%	84%	79%	73%	66%	53%	42%	29%	21%	15%	12%	8%	6%

Intensities in 270° c-plane

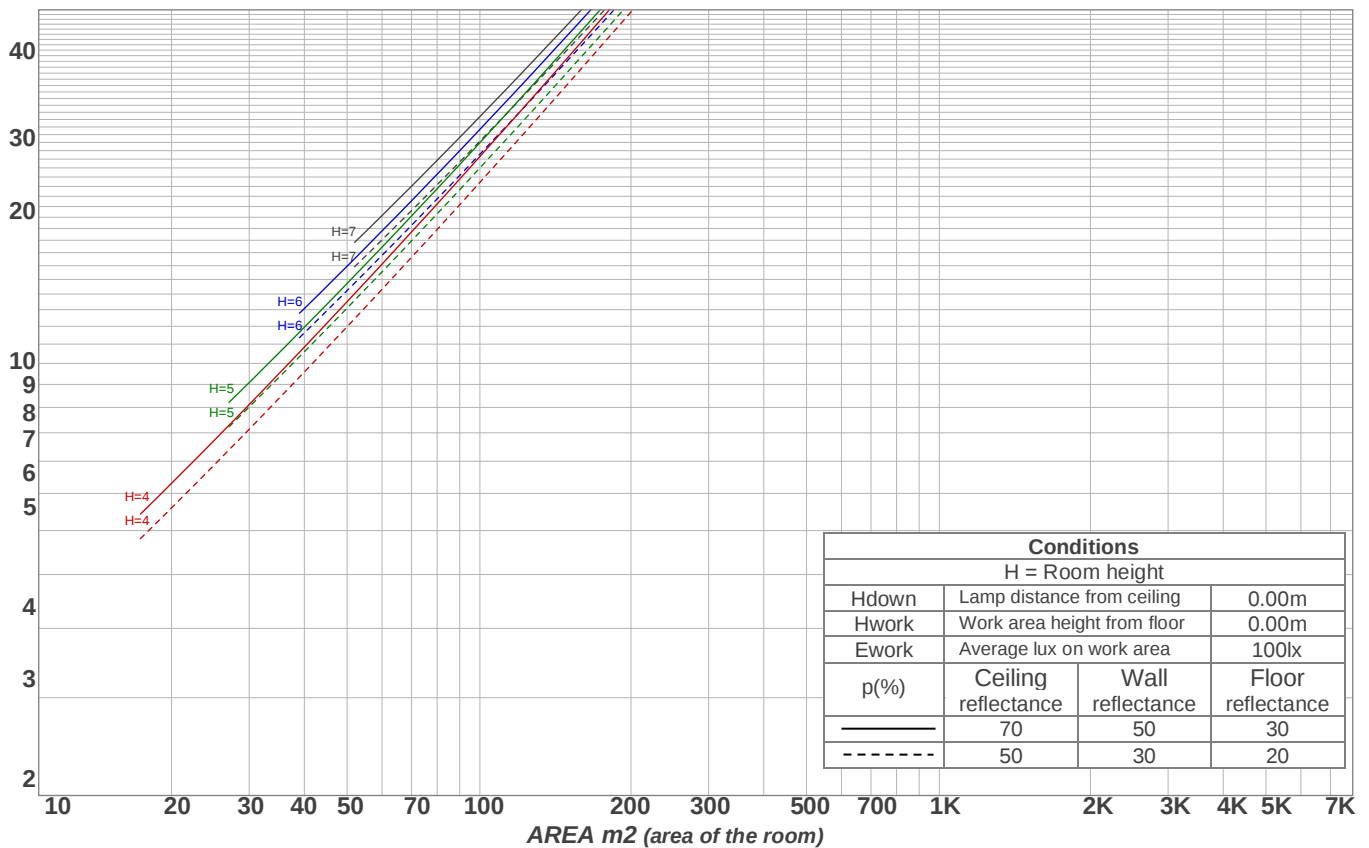
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
686	687	682	675	665	651	633	611	579	539	490	422	340	250	182	141	108	82	59	44
100%	100%	99%	98%	97%	95%	92%	89%	84%	79%	72%	62%	50%	37%	27%	21%	16%	12%	9%	6%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
48.4°	69.8°	85.9°	99.3%	97.9%

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75
6	92	84	78	75	90	83	78	74	81	77	74	80	76	73	79	76	73	72
7	88	80	74	70	87	79	74	70	78	73	70	77	73	70	76	72	69	68
8	84	76	70	67	83	75	70	67	74	70	66	73	69	66	72	69	66	65
9	81	72	67	63	80	72	67	63	71	66	63	70	66	63	69	66	63	62
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
63.8 lm	164 lm	139 lm	45.3 lm	10.3 lm	3.23 lm	1.63 lm	0.719 lm	0.414 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	23.6	24.2	23.7	24.4	24.6	23.7	24.3	23.8	24.5	24.7
	3H	23.4	24.1	23.8	24.3	24.5	23.5	24.2	23.9	24.4	24.6
	4H	23.4	24.1	23.8	24.3	24.5	23.4	24.1	23.8	24.3	24.6
	6H	23.4	24.0	23.7	24.3	24.6	23.5	24.0	23.7	24.3	24.7
	8H	23.4	23.9	23.7	24.3	24.6	23.4	24.0	23.7	24.3	24.7
	12H	23.4	23.9	23.7	24.2	24.7	23.4	23.9	23.7	24.3	24.7
4H	2H	23.3	24.0	23.7	24.2	24.4	23.4	24.1	23.8	24.3	24.5
	3H	23.3	23.9	23.7	24.2	24.6	23.4	23.9	23.7	24.3	24.7
	4H	23.2	23.7	23.7	24.2	24.7	23.3	23.8	23.7	24.2	24.7
	6H	23.2	23.8	23.7	24.1	24.4	23.2	23.8	23.7	24.1	24.4
	8H	23.2	23.7	23.7	24.0	24.4	23.2	23.7	23.7	24.0	24.4
	12H	23.2	23.6	23.7	24.0	24.4	23.2	23.6	23.7	24.0	24.4
8H	4H	23.1	23.6	23.6	24.0	24.3	23.2	23.6	23.7	24.0	24.3
	6H	23.2	23.5	23.7	23.9	24.5	23.2	23.5	23.7	23.9	24.5
	8H	23.2	23.5	23.7	24.0	24.6	23.2	23.5	23.7	24.0	24.6
	12H	23.3	23.5	23.8	24.0	24.6	23.2	23.4	23.8	23.9	24.5
12H	4H	23.1	23.4	23.6	23.9	24.3	23.1	23.5	23.6	23.9	24.3
	6H	23.2	23.4	23.7	23.9	24.6	23.2	23.4	23.7	23.9	24.6
	8H	23.2	23.4	23.8	23.9	24.5	23.2	23.4	23.8	23.9	24.5
Corrected glare indices referring to 429 lm total luminous flux											