

Light efficiency:



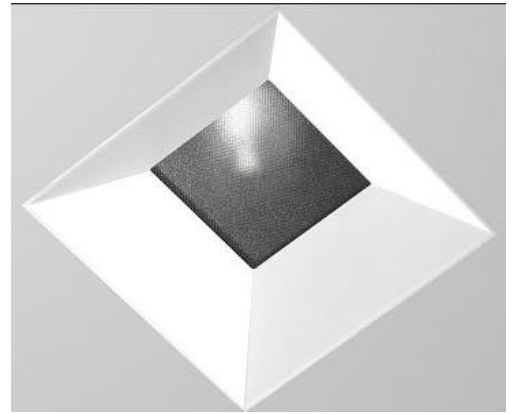
Output: 995 lm

Light quality:

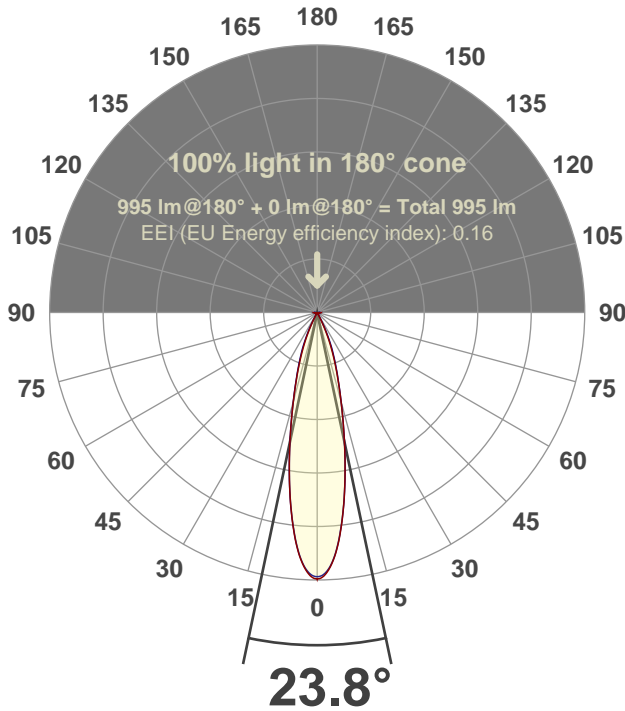


Peak: 4174 cd

Power: 15.0 W



Beam angle



Test number:

CR4D-S-DR-C14-30k-24 (1009-CZ20-NF)

Luminaire Model:

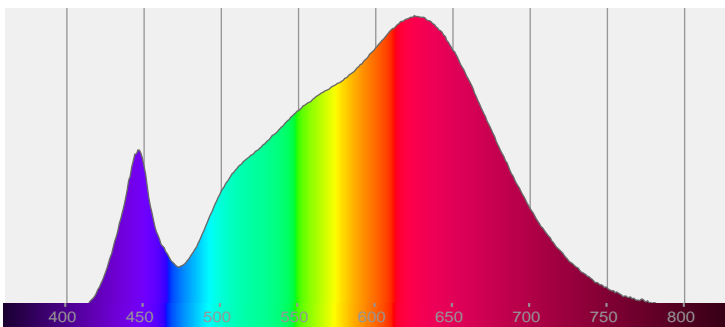
Core 4" Square Deep Regress C14 30K 24°

Date and time:

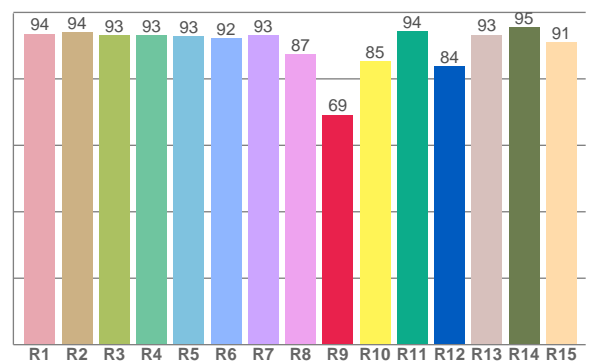
3/8/2017 5:42:30 PM

LUM: 995

Spectra



CRI: 92.4 (R1-R8)



Color parameters

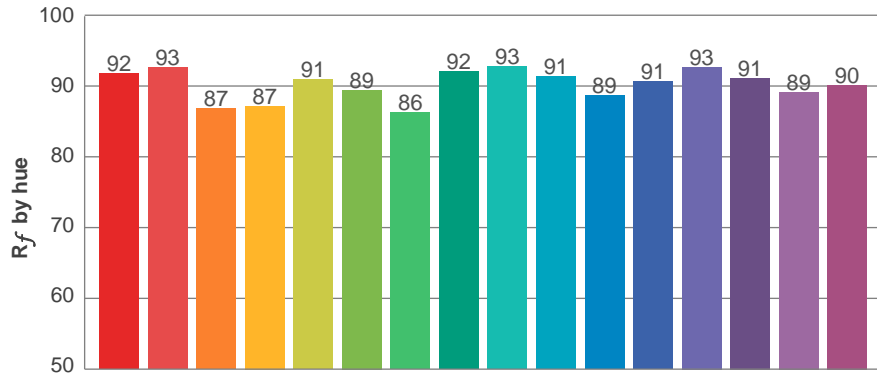
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.4	69.2	90.3	103.1	90.2	0.429	0.400	0.248	0.346	-0.0006

R_f 90.3
Fidelity index R_f

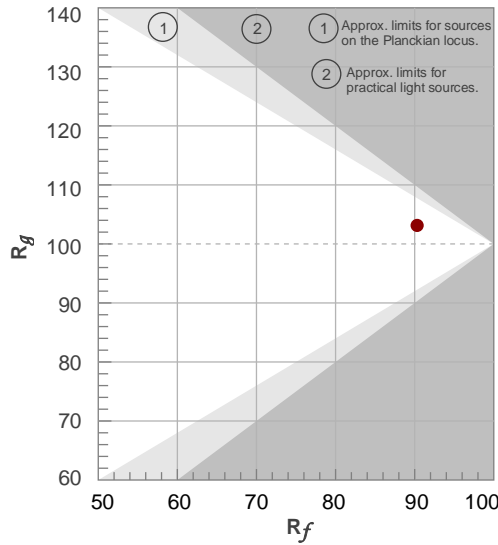
R_g 103.1
Gammut index R_g

TM30: 90.3

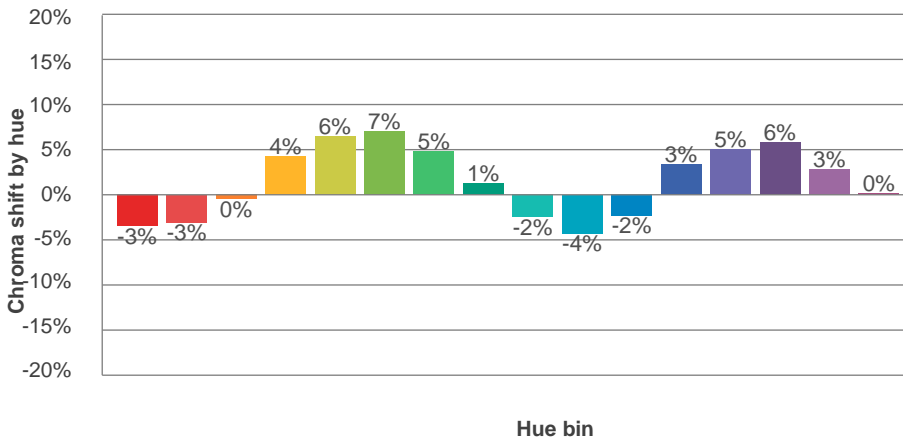
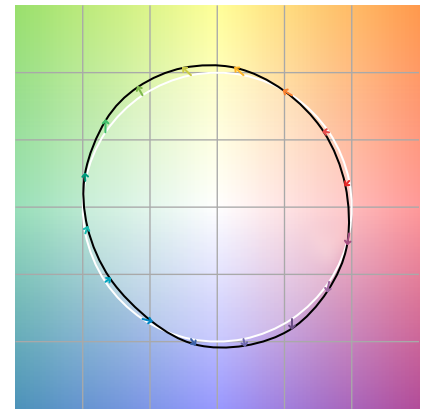
TM-30Color



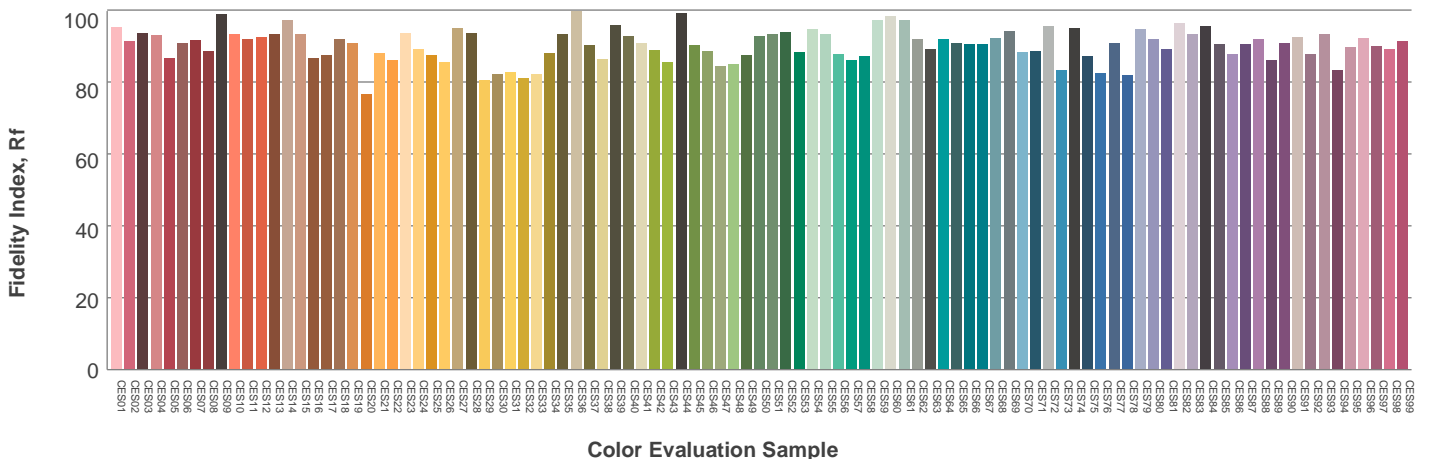
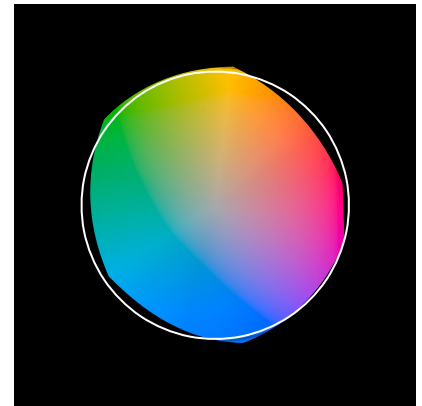
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-3%
2	93	-3%	3%
3	87	0%	7%
4	87	4%	7%
5	91	6%	5%
6	89	7%	-1%
7	86	5%	-7%
8	92	1%	-5%
9	93	-2%	-4%
10	91	-4%	0%
11	89	-2%	6%
12	91	3%	4%
13	93	5%	0%
14	91	6%	-4%
15	89	3%	-6%
16	90	0%	-8%



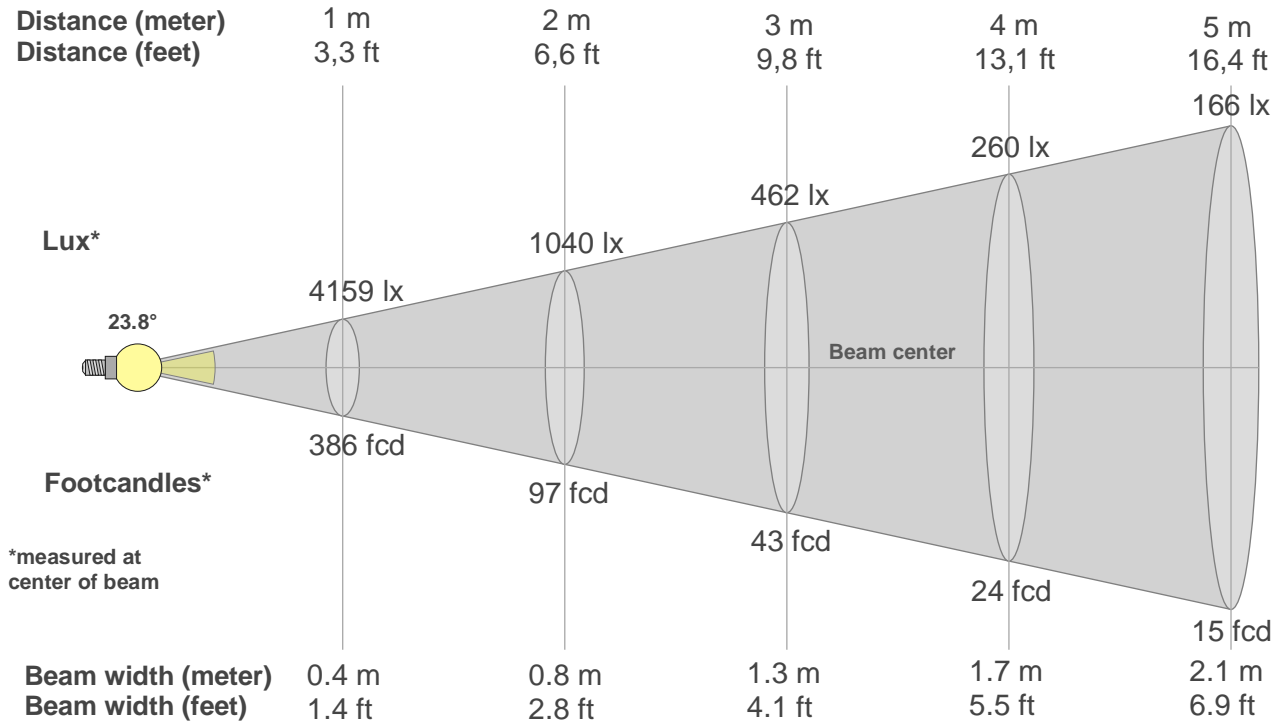
Color vector graphics



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
4159lx	1040lx	462lx	260lx	166lx	116lx	85lx	65lx	51lx	42lx	34lx	29lx	25lx	21lx	18lx	16lx	14lx	13lx	12lx	10lx
386.4fc	96.6fcd	42.9fcd	24.1fcd	15.5fcd	10.7fcd	7.9fcd	6fcd	4.8fcd	3.9fcd	3.2fcd	2.7fcd	2.3fcd	2fcd	1.7fcd	1.5fcd	1.3fcd	1.2fcd	1.1fcd	1fcd

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°
4159	4086	3846	3468	3010	2519	2055	1638	1291	1011	779	576	396	234	113	54	37	30	25	21
100%	98%	92%	83%	72%	61%	49%	39%	31%	24%	19%	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°
4159	4064	3835	3455	3004	2518	2051	1633	1298	1031	817	636	456	283	135	50	34	28	23	19
100%	98%	92%	83%	72%	61%	49%	39%	31%	25%	20%	15%	11%	7%	3%	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°
4159	4086	3846	3468	3010	2519	2055	1638	1291	1011	779	576	396	234	113	54	37	30	25	21
100%	98%	92%	83%	72%	61%	49%	39%	31%	24%	19%	14%	10%	6%	3%	1%	1%	1%	1%	0%

Intensities in 270° c-plane

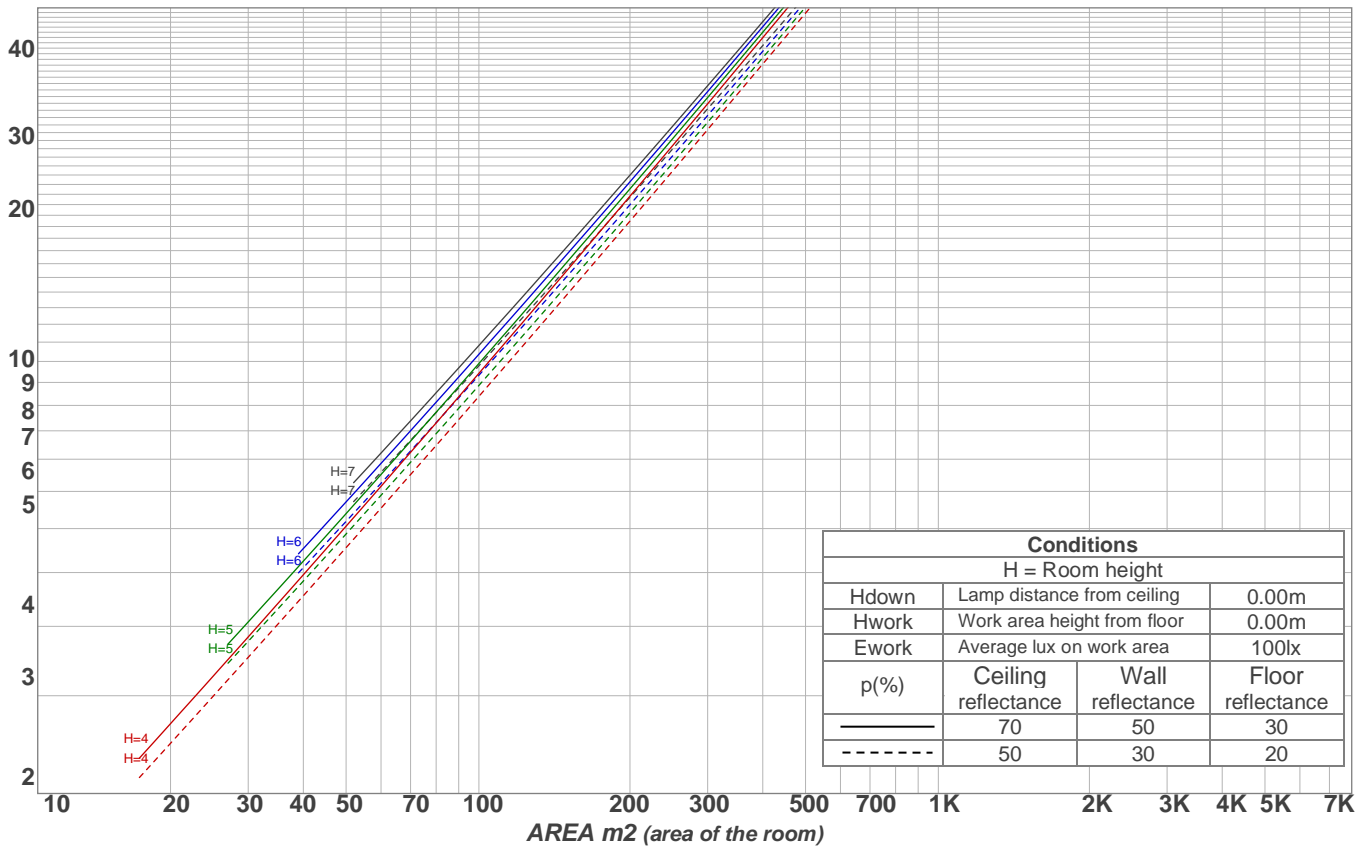
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
4159	4064	3835	3455	3004	2518	2051	1633	1298	1031	817	636	456	283	135	50	34	28	23	19
100%	98%	92%	83%	72%	61%	49%	39%	31%	25%	20%	15%	11%	7%	3%	1%	1%	1%	1%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.8°	52.5°	62.8°	99.5%	98.7%

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	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	86	82	79	85	82	79	84	81	79	83	80	78	77
8	91	84	80	77	90	84	79	77	83	79	76	82	78	76	81	78	76	75
9	88	81	77	74	88	81	77	74	80	76	74	79	76	74	79	76	73	72
10	86	79	75	72	85	79	74	72	78	74	72	77	74	71	77	73	71	70

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
312 lm	411 lm	211 lm	43.4 lm	7.54 lm	4.77 lm	2.78 lm	1.34 lm	0.918 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	19.5	19.9	19.5	20.1	20.3	19.3	19.7	19.4	19.9	20.1
	3H	19.4	20.0	19.7	20.1	20.3	19.4	20.0	19.7	20.1	20.3
	4H	19.4	20.0	19.8	20.2	20.4	19.4	20.0	19.8	20.2	20.5
	6H	19.5	20.0	19.8	20.3	20.6	19.7	20.1	20.0	20.4	20.8
	8H	19.6	20.0	19.9	20.4	20.7	19.8	20.2	20.1	20.6	20.9
	12H	19.7	20.1	20.0	20.5	20.9	19.9	20.4	20.3	20.7	21.1
4H	2H	19.3	19.9	19.7	20.1	20.3	19.2	19.7	19.6	20.0	20.2
	3H	19.5	19.9	19.9	20.3	20.7	19.5	20.0	19.9	20.3	20.7
	4H	19.5	19.9	19.9	20.4	20.9	19.6	20.0	20.0	20.5	21.0
	6H	19.7	20.1	20.2	20.5	20.8	19.9	20.3	20.4	20.7	21.0
	8H	19.8	20.2	20.3	20.5	20.9	20.1	20.5	20.6	20.8	21.2
	12H	20.0	20.3	20.5	20.7	21.2	20.3	20.7	20.8	21.1	21.5
8H	4H	19.5	19.9	20.0	20.3	20.6	19.6	20.0	20.1	20.4	20.7
	6H	19.8	20.0	20.3	20.5	21.0	20.0	20.3	20.5	20.7	21.2
	8H	20.0	20.2	20.5	20.8	21.4	20.3	20.5	20.8	21.1	21.7
	12H	20.4	20.5	21.0	21.0	21.6	20.8	20.9	21.4	21.4	22.0
12H	4H	19.5	19.8	20.0	20.2	20.7	19.6	19.9	20.1	20.3	20.7
	6H	19.8	20.0	20.4	20.6	21.2	20.1	20.3	20.6	20.8	21.4
	8H	20.1	20.3	20.7	20.8	21.4	20.4	20.6	21.0	21.1	21.7
Corrected glare indices referring to 995 lm total luminous flux											