

Light efficiency:



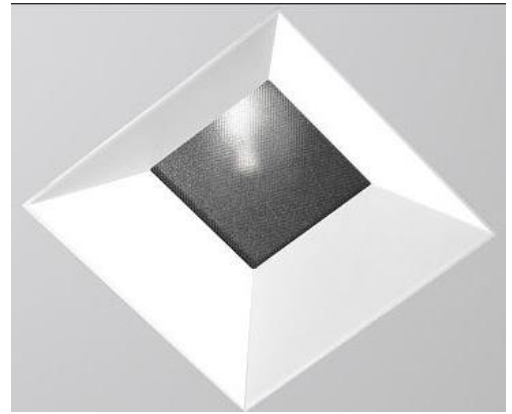
Output: 1857 lm

Light quality:

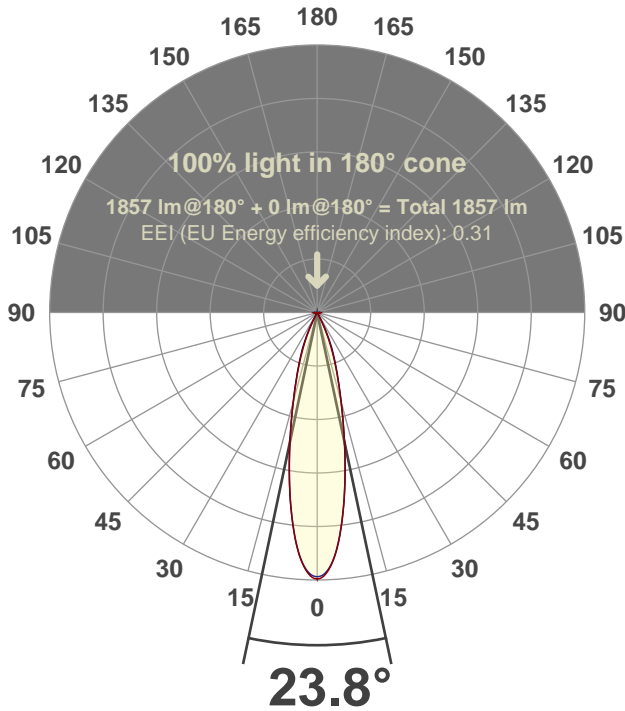


Peak: 7791 cd

Power: 30.0 W



Beam angle



Test number:

CR4D-S-DR-C28-30k-24 (1009-CZ20-NF)

Luminaire Model:

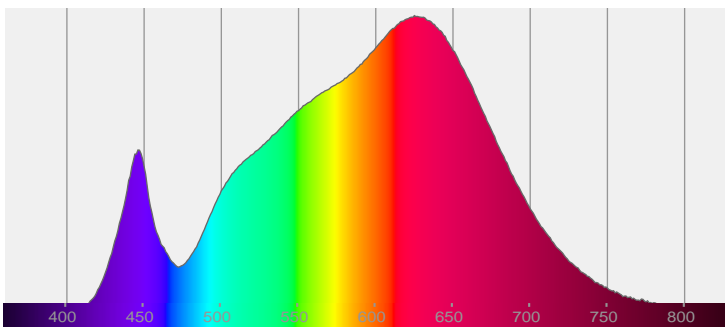
Core 4" Square Deep Regress C28 30K 24°

Date and time:

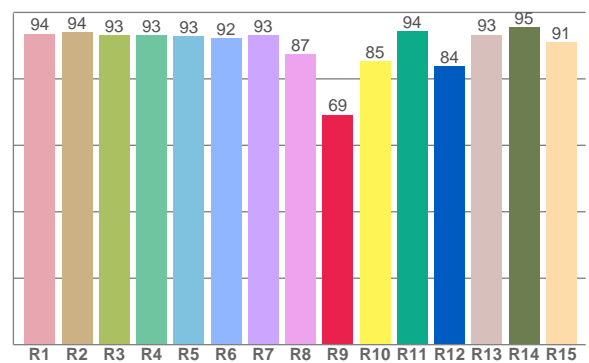
3/8/2017 5:42:30 PM

LUM: 1857

Spectra



CRI: 92.4 (R1-R8)



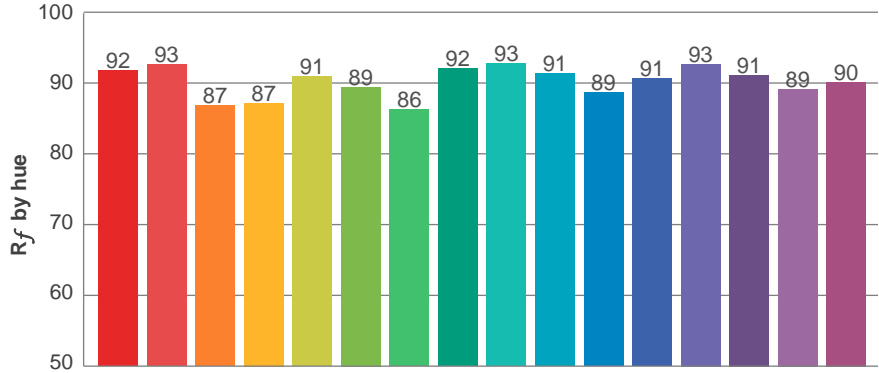
Color parameters

	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

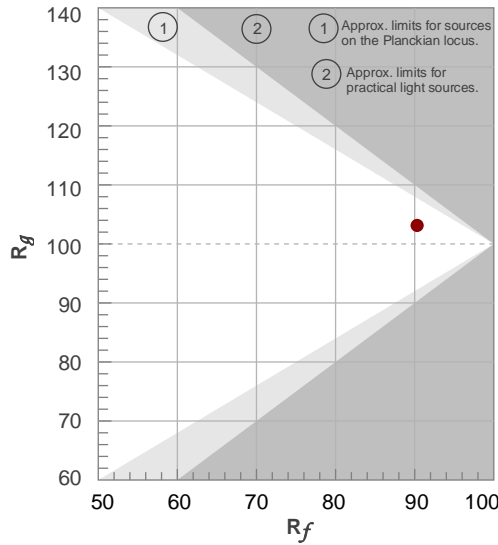
R_g 103.1
Gammut index R_g

TM30: 90.3

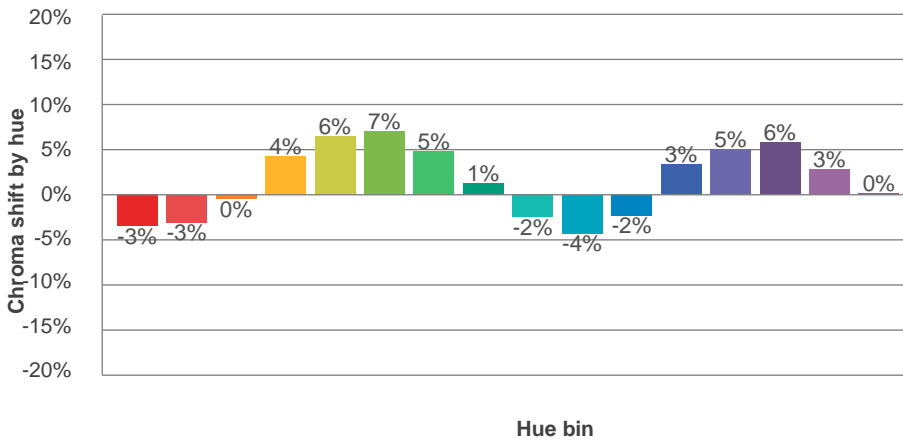
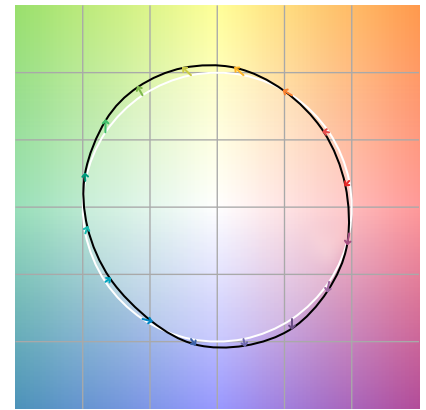


TM-30Color

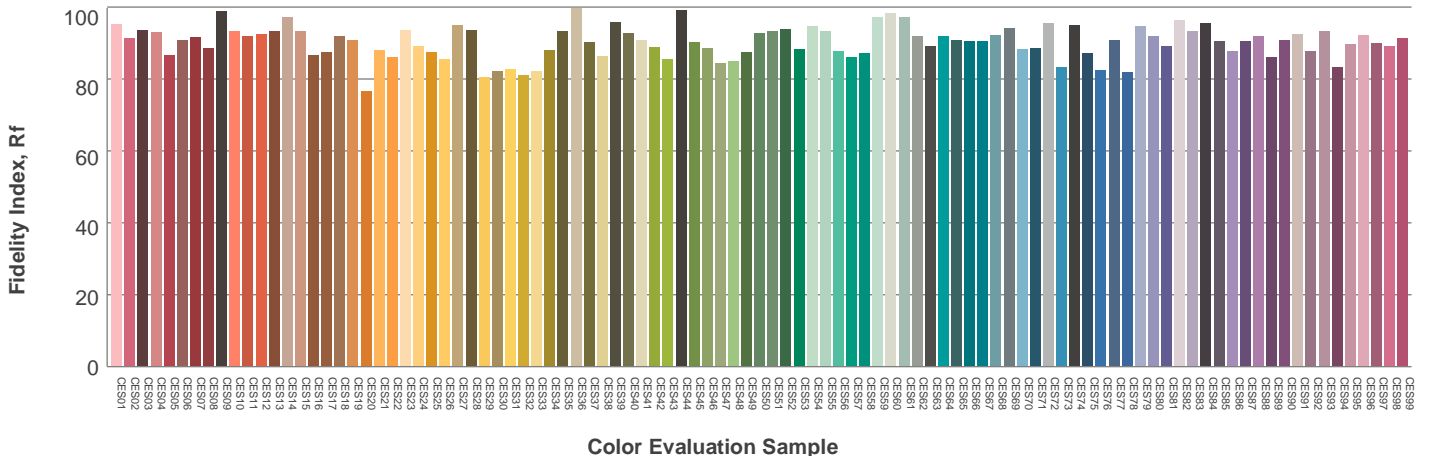
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-3%
2	93	-3%	3%
3	87	0%	7%
4	87	4%	7%
5	91	6%	5%
6	89	7%	-1%
7	86	5%	-7%
8	92	1%	-5%
9	93	-2%	-4%
10	91	-4%	0%
11	89	-2%	6%
12	91	3%	4%
13	93	5%	0%
14	91	6%	-4%
15	89	3%	-6%
16	90	0%	-8%



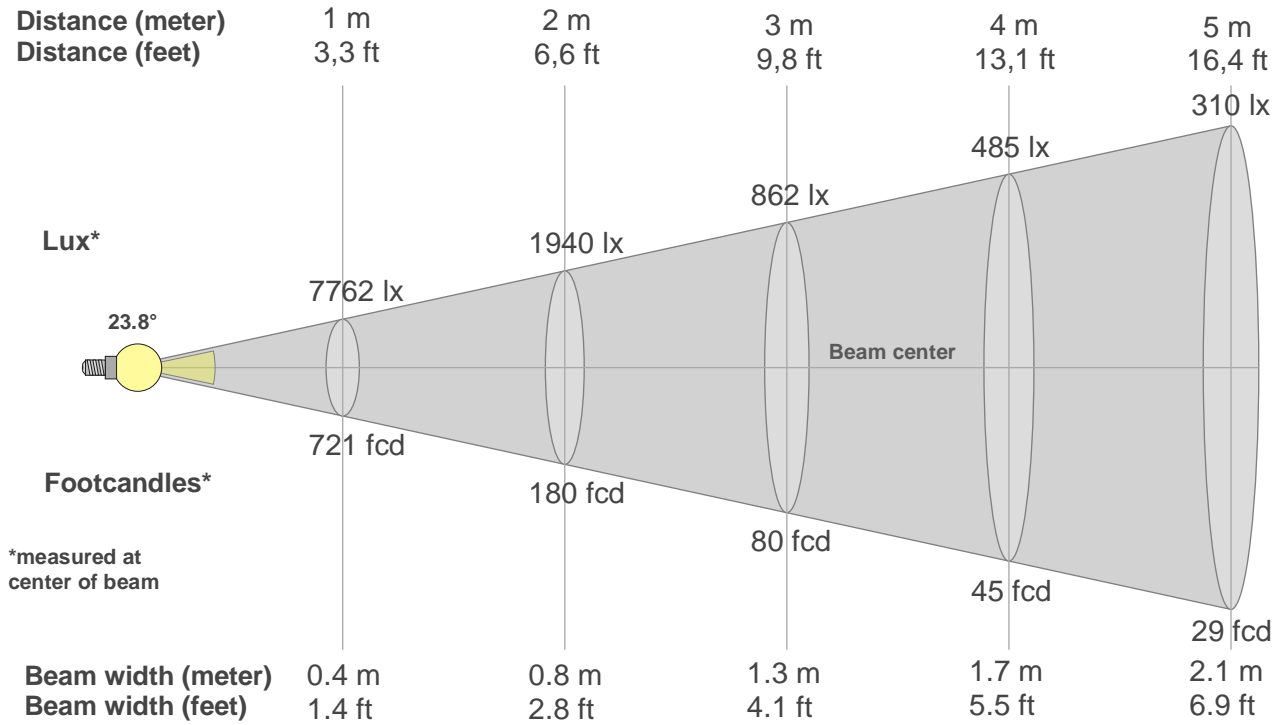
Color vector graphics



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
7762lx	1940lx	862lx	485lx	310lx	216lx	158lx	121lx	96lx	78lx	64lx	54lx	46lx	40lx	34lx	30lx	27lx	24lx	22lx	19lx
721.1fcd	180.3fcd	80.1fcd	45.1fcd	28.8fcd	20fcd	14.7fcd	11.3fcd	8.9fcd	7.2fcd	6fcd	5fcd	4.3fcd	3.7fcd	3.2fcd	2.8fcd	2.5fcd	2.2fcd	2fcd	1.8fcd

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°
7762	7625	7177	6472	5617	4701	3836	3058	2410	1887	1454	1076	739	437	212	101	69	56	46	38
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°
7762	7585	7157	6449	5606	4700	3827	3048	2423	1924	1525	1186	851	528	251	93	63	53	44	36
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°
7762	7625	7177	6472	5617	4701	3836	3058	2410	1887	1454	1076	739	437	212	101	69	56	46	38
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

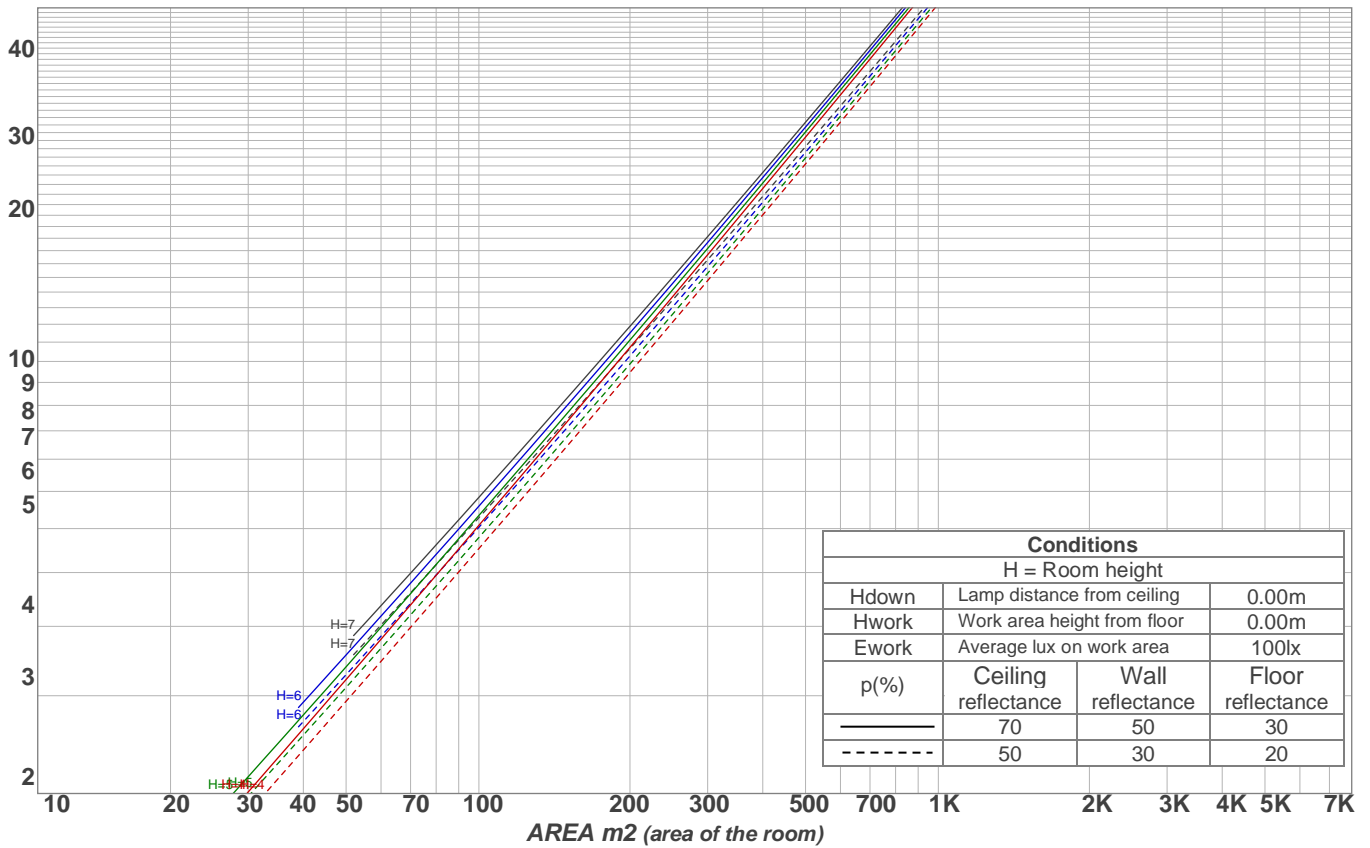
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
7762	7585	7157	6449	5606	4700	3827	3048	2423	1924	1525	1186	851	528	251	93	63	53	44	36
100%	98%	92%	83%	72%	61%	49%	39%	31%	25%	20%	15%	11%	7%	3%	1%	1%	1%	1%	0%

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°
583 lm	767 lm	394 lm	81.1 lm	14.1 lm	8.89 lm	5.19 lm	2.49 lm	1.71 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	21.6	22.1	21.7	22.3	22.4	21.5	21.9	21.5	22.1	22.3
	3H	21.5	22.1	21.9	22.3	22.5	21.5	22.1	21.9	22.3	22.5
	4H	21.6	22.1	22.0	22.4	22.6	21.6	22.2	22.0	22.4	22.6
	6H	21.7	22.2	22.0	22.5	22.8	21.8	22.3	22.1	22.6	23.0
	8H	21.7	22.2	22.1	22.5	22.9	21.9	22.4	22.3	22.7	23.1
	12H	21.9	22.3	22.2	22.6	23.1	22.1	22.5	22.4	22.9	23.3
4H	2H	21.5	22.1	21.9	22.3	22.5	21.3	21.9	21.7	22.1	22.4
	3H	21.7	22.1	22.0	22.5	22.9	21.7	22.1	22.0	22.5	22.9
	4H	21.7	22.1	22.1	22.5	23.0	21.8	22.2	22.2	22.6	23.1
	6H	21.8	22.3	22.3	22.6	23.0	22.0	22.5	22.5	22.8	23.2
	8H	21.9	22.4	22.5	22.7	23.1	22.2	22.7	22.7	23.0	23.3
	12H	22.1	22.5	22.6	22.9	23.3	22.5	22.8	23.0	23.2	23.7
8H	4H	21.7	22.1	22.2	22.4	22.8	21.8	22.2	22.3	22.5	22.9
	6H	21.9	22.2	22.4	22.7	23.2	22.2	22.4	22.7	22.9	23.4
	8H	22.2	22.4	22.7	22.9	23.5	22.5	22.7	23.0	23.2	23.8
	12H	22.5	22.7	23.1	23.2	23.8	22.9	23.1	23.5	23.6	24.2
12H	4H	21.6	22.0	22.1	22.4	22.8	21.7	22.1	22.2	22.5	22.9
	6H	22.0	22.2	22.5	22.7	23.4	22.2	22.4	22.7	22.9	23.6
	8H	22.3	22.4	22.8	22.9	23.5	22.5	22.7	23.1	23.2	23.8
Corrected glare indices referring to 1857 lm total luminous flux											