

Light efficiency:



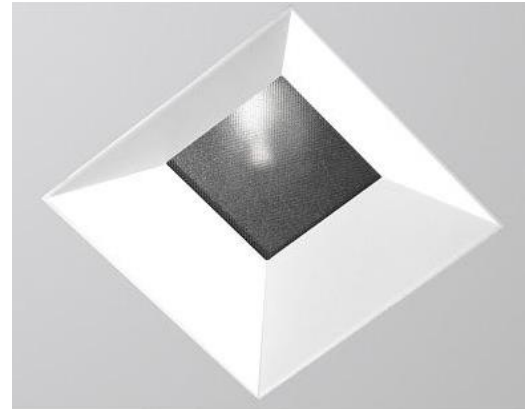
Output: 1916 lm

Light quality:

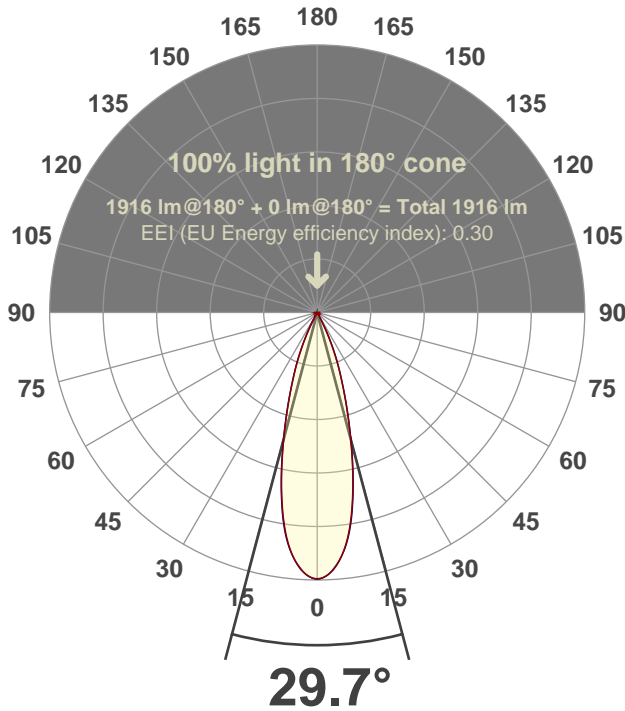


Peak: 6336 cd

Power: 30.1 W



Beam angle



Test number:

CR4D-S-DR-C28-30k-40 (1009-CZ20-FL)

Luminaire Model:

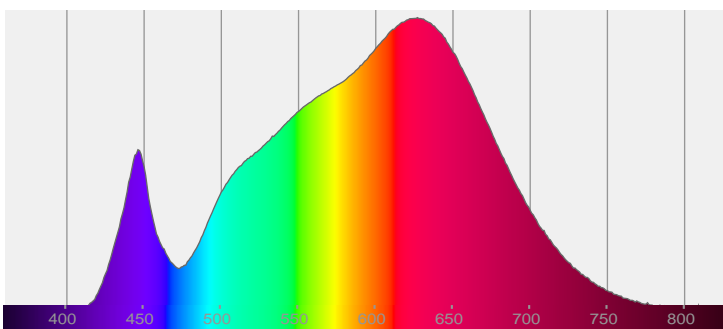
Core 4" Square Deep Regress C28 30K 40°

Date and time:

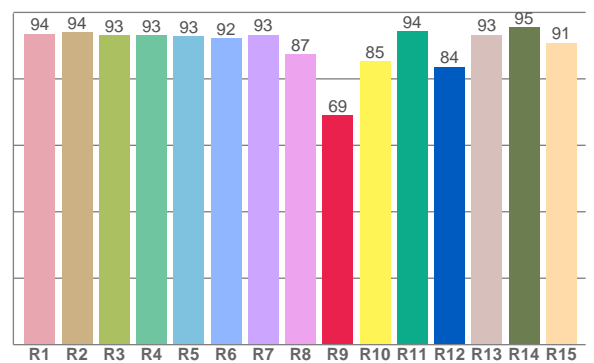
3/8/2017 2:25:35 PM

LUM: 1916

Spectra



CRI: 92.4 (R1-R8)



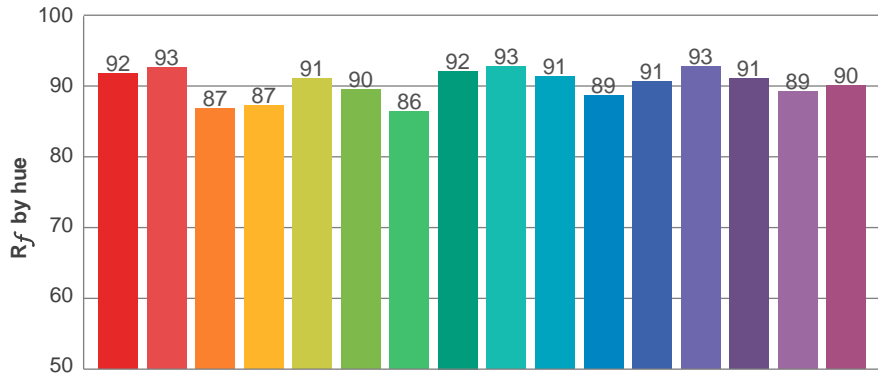
Color parameters

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	69.0	90.3	103.1	90.2	0.429	0.400	0.247	0.346	-0.0006

R_f 90.3
Fidelity index R_f

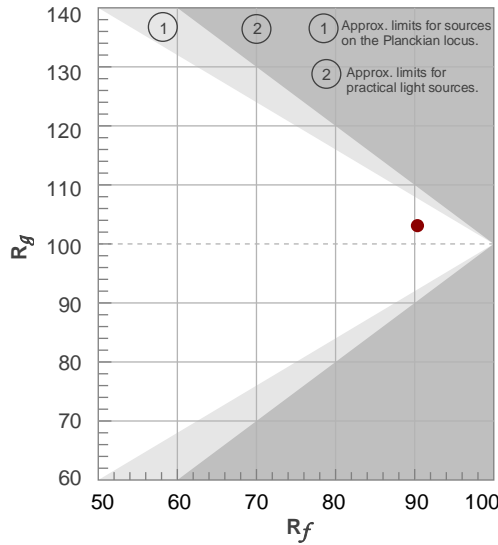
R_g 103.1
Gammut index R_g

TM30: 90.3

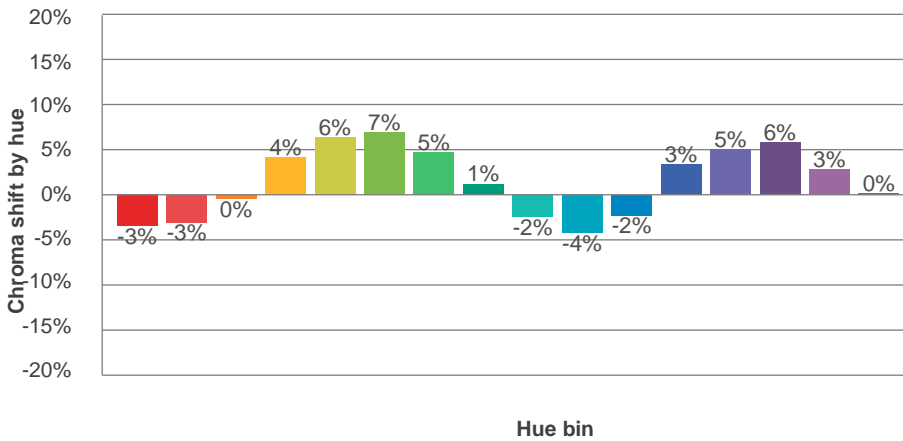
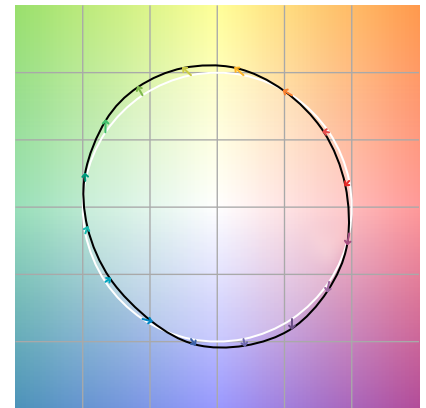


TM-30Color

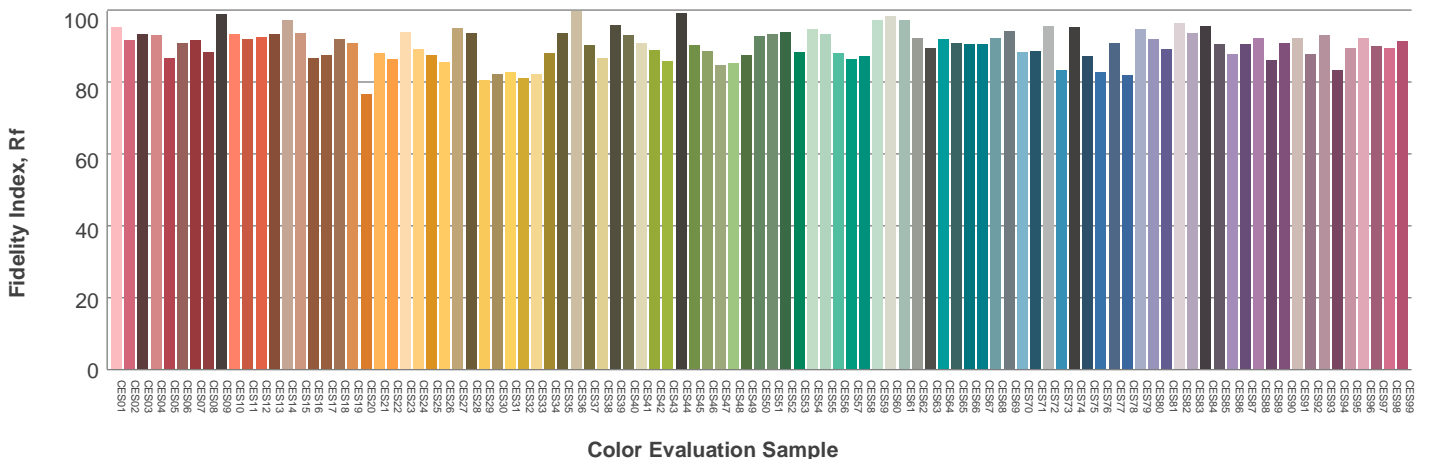
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-3%
2	93	-3%	3%
3	87	0%	7%
4	87	4%	7%
5	91	6%	5%
6	90	7%	-1%
7	86	5%	-7%
8	92	1%	-5%
9	93	-2%	-4%
10	91	-4%	0%
11	89	-2%	7%
12	91	3%	4%
13	93	5%	0%
14	91	6%	-4%
15	89	3%	-6%
16	90	0%	-8%



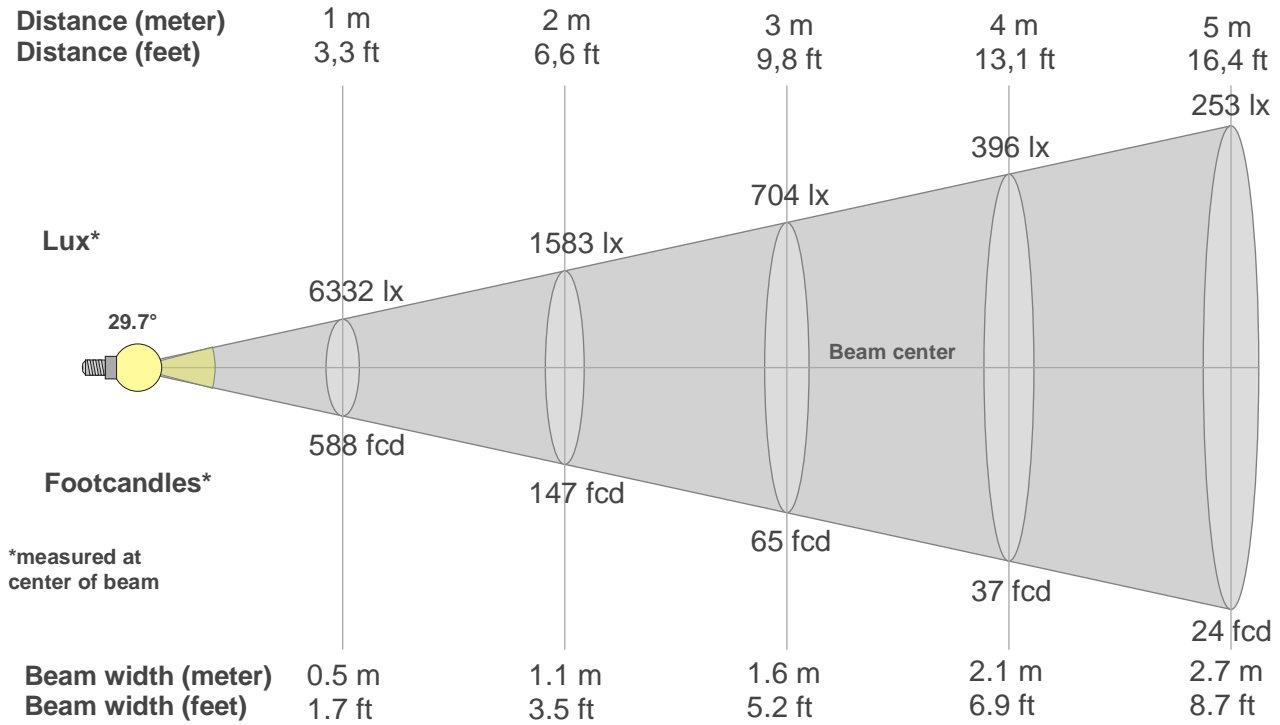
Color vector graphics



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
6332lx	1583lx	704lx	396lx	253lx	176lx	129lx	99lx	78lx	63lx	52lx	44lx	37lx	32lx	28lx	25lx	22lx	20lx	18lx	16lx
588.2fcd	147.1fcd	65.4fcd	36.8fcd	23.5fcd	16.3fcd	12fcd	9.2fcd	7.3fcd	5.9fcd	4.9fcd	4.1fcd	3.5fcd	3fcd	2.6fcd	2.3fcd	2fcd	1.8fcd	1.6fcd	1.5fcd

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°
6332	6263	6077	5769	5331	4752	4089	3402	2751	2179	1707	1282	897	554	279	126	73	57	48	40
100%	99%	96%	91%	84%	75%	65%	54%	43%	34%	27%	20%	14%	9%	4%	2%	1%	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°
6332	6261	6062	5769	5358	4791	4120	3423	2769	2192	1684	1300	918	565	275	109	73	58	49	40
100%	99%	96%	91%	85%	76%	65%	54%	44%	35%	27%	21%	14%	9%	4%	2%	1%	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°
6332	6263	6077	5769	5331	4752	4089	3402	2751	2179	1707	1282	897	554	279	126	73	57	48	40
100%	99%	96%	91%	84%	75%	65%	54%	43%	34%	27%	20%	14%	9%	4%	2%	1%	1%	1%	1%

Intensities in 270° c-plane

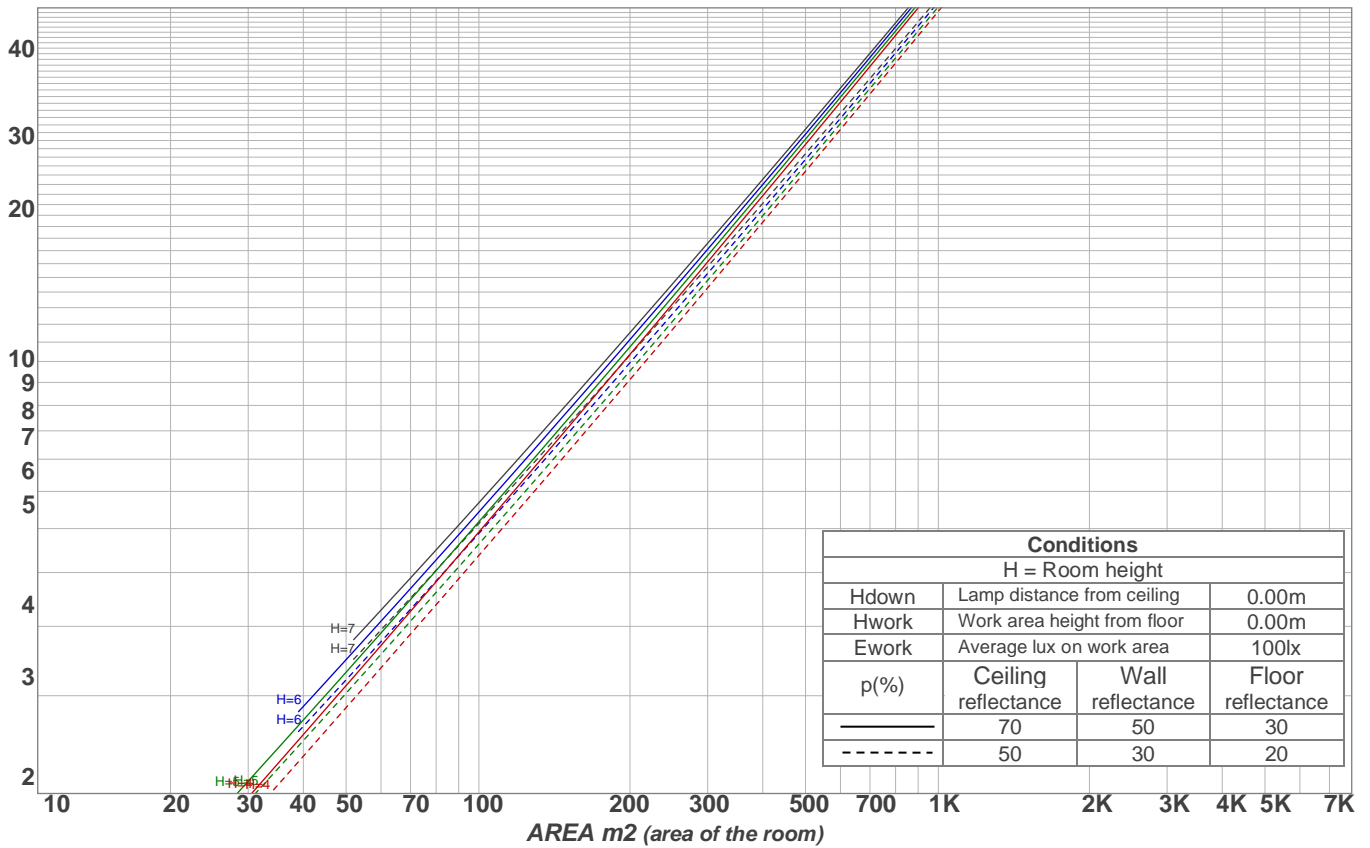
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6332	6261	6062	5769	5358	4791	4120	3423	2769	2192	1684	1300	918	565	275	109	73	58	49	40
100%	99%	96%	91%	85%	76%	65%	54%	44%	35%	27%	21%	14%	9%	4%	2%	1%	1%	1%	1%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
29.7°	55.2°	64.4°	99.7%	99.1%

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	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	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96	
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92	
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89	
4	103	97	93	90	102	96	92	89	94	91	88	92	90	87	91	88	86	85	
5	100	93	89	86	98	93	88	85	91	87	85	89	86	84	88	85	83	82	
6	96	90	85	82	95	89	85	82	88	84	81	86	83	81	85	82	80	79	
7	93	86	82	79	92	86	82	79	85	81	78	84	80	78	83	80	77	76	
8	90	83	79	76	89	83	79	76	82	78	75	81	78	75	80	77	75	74	
9	88	81	76	73	87	80	76	73	79	75	73	79	75	73	78	75	72	71	
10	85	78	74	71	84	78	73	71	77	73	70	76	73	70	76	72	70	69	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
530 lm	854 lm	422 lm	83.6 lm	15.2 lm	6.35 lm	2.61 lm	1.36 lm	1.16 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	21.3	21.7	21.4	21.9	22.1	21.2	21.7	21.3	21.9	22.0
	3H	21.0	21.6	21.4	21.8	22.0	21.0	21.6	21.4	21.8	22.0
	4H	21.0	21.6	21.4	21.8	22.0	21.0	21.6	21.4	21.8	22.0
	6H	21.1	21.5	21.4	21.8	22.2	21.1	21.5	21.3	21.8	22.2
	8H	21.1	21.5	21.4	21.9	22.2	21.1	21.5	21.4	21.8	22.2
	12H	21.1	21.5	21.4	21.9	22.3	21.1	21.5	21.4	21.9	22.3
4H	2H	21.0	21.6	21.4	21.8	22.0	20.9	21.5	21.3	21.7	22.0
	3H	21.0	21.4	21.3	21.8	22.2	20.9	21.4	21.3	21.7	22.2
	4H	20.9	21.3	21.3	21.7	22.2	20.9	21.3	21.3	21.7	22.2
	6H	20.9	21.4	21.4	21.7	22.1	20.9	21.4	21.4	21.7	22.1
	8H	21.0	21.4	21.5	21.7	22.1	21.0	21.4	21.5	21.7	22.1
	12H	21.0	21.4	21.5	21.8	22.2	21.1	21.4	21.6	21.8	22.2
8H	4H	20.8	21.2	21.3	21.6	21.9	20.8	21.2	21.3	21.5	21.9
	6H	20.9	21.2	21.4	21.6	22.2	20.9	21.2	21.4	21.6	22.2
	8H	21.1	21.3	21.6	21.8	22.4	21.1	21.3	21.6	21.8	22.4
	12H	21.2	21.4	21.8	21.9	22.5	21.2	21.4	21.8	21.9	22.5
12H	4H	20.7	21.1	21.2	21.5	21.9	20.7	21.0	21.2	21.5	21.9
	6H	20.9	21.1	21.4	21.7	22.3	20.9	21.1	21.4	21.7	22.3
	8H	21.1	21.2	21.7	21.7	22.3	21.1	21.3	21.7	21.8	22.4
Corrected glare indices referring to 1916 lm total luminous flux											