

Light efficiency:

61 Lumen/Watt

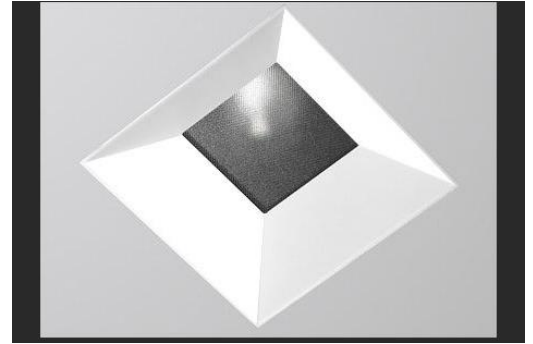
Output: 1816 lm

Light quality:

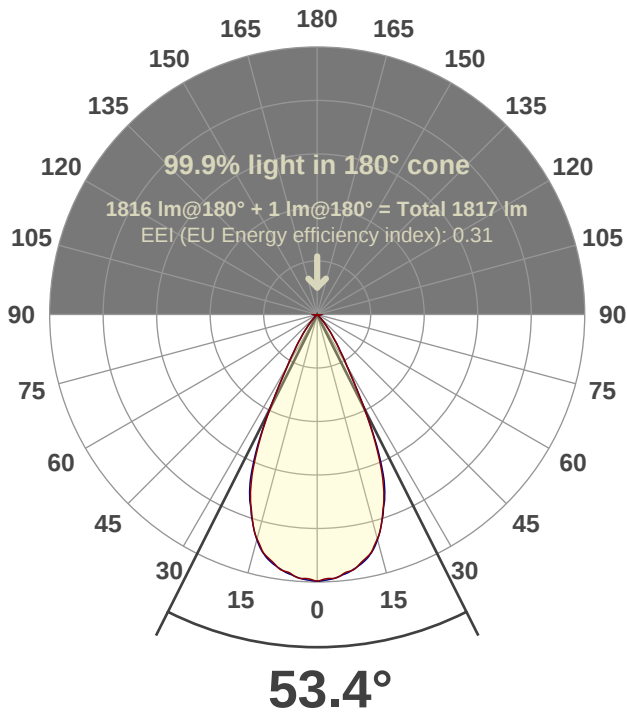
CRI: 92.4

Peak: 2556 cd

Power: 30.0 W



Beam angle



Test number:

CR4D-S-DR-C28-30k-55 (1009-CZ20-WF)

Luminaire Model:

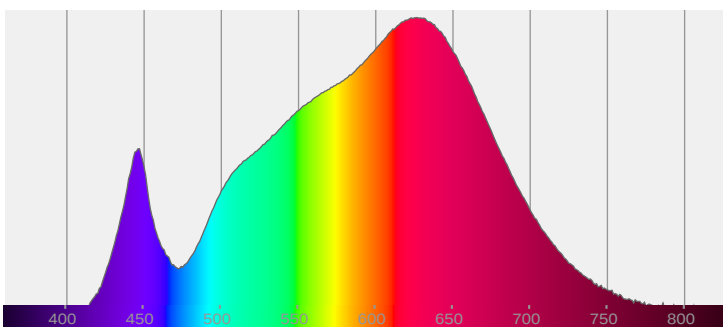
Core 4" Square Deep Regress C28 30K 55°

Date and time:

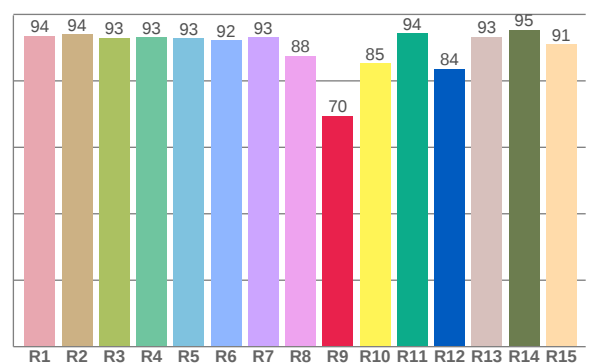
3/8/2017 2:56:30 PM

LUM: 1816

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	69.5	90.3	103.2	90.2	0.428	0.400	0.247	0.346	-0.0005

R_f 90.3

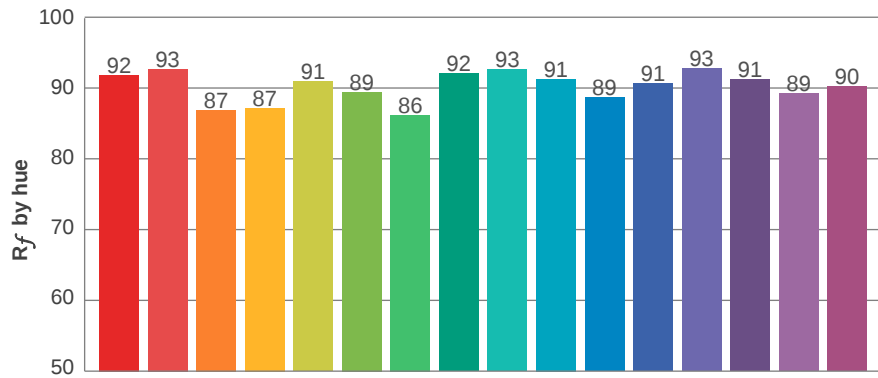
Fidelity index R_f

R_g 103.2

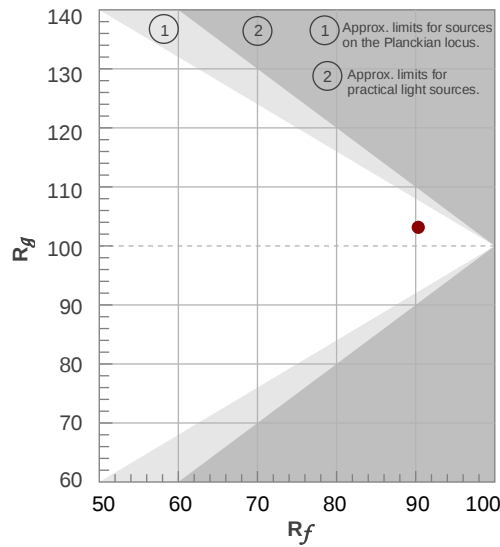
Gammut index R_g

TM30: 90.3

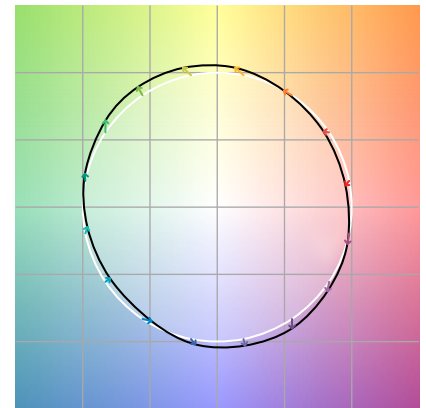
TM-30Color



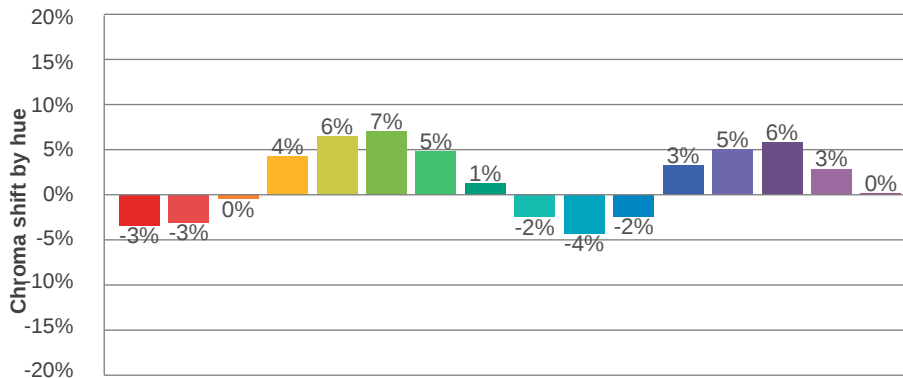
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-3%
2	93	-3%	3%
3	87	0%	7%
4	87	4%	7%
5	91	6%	5%
6	89	7%	0%
7	86	5%	-7%
8	92	1%	-5%
9	93	-2%	-4%
10	91	-4%	0%
11	89	-2%	6%
12	91	3%	4%
13	93	5%	0%
14	91	6%	-4%
15	89	3%	-6%
16	90	0%	-8%



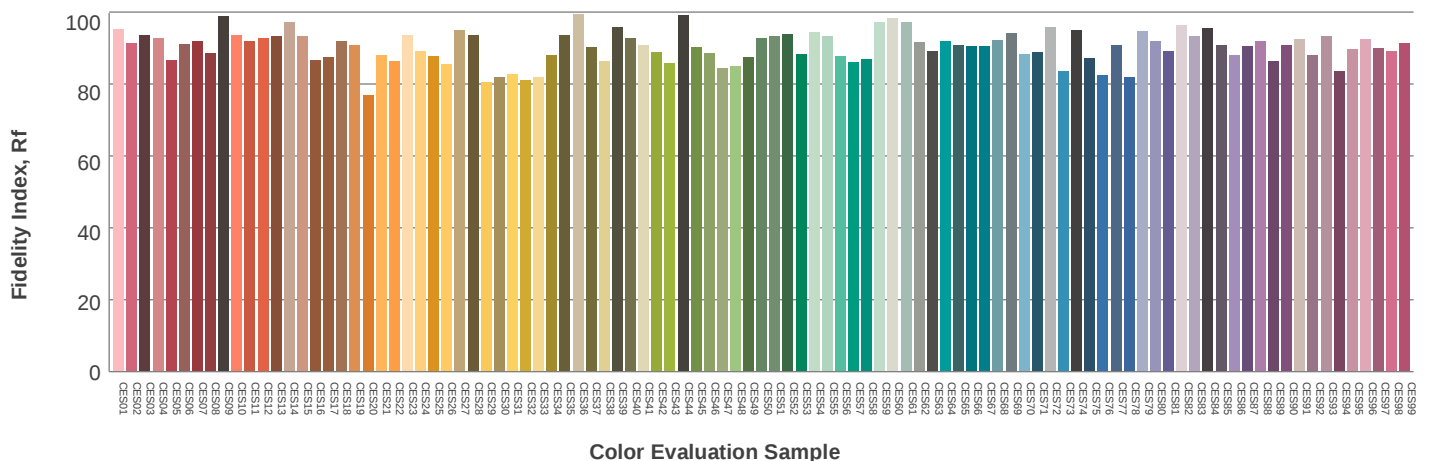
Color vector graphics



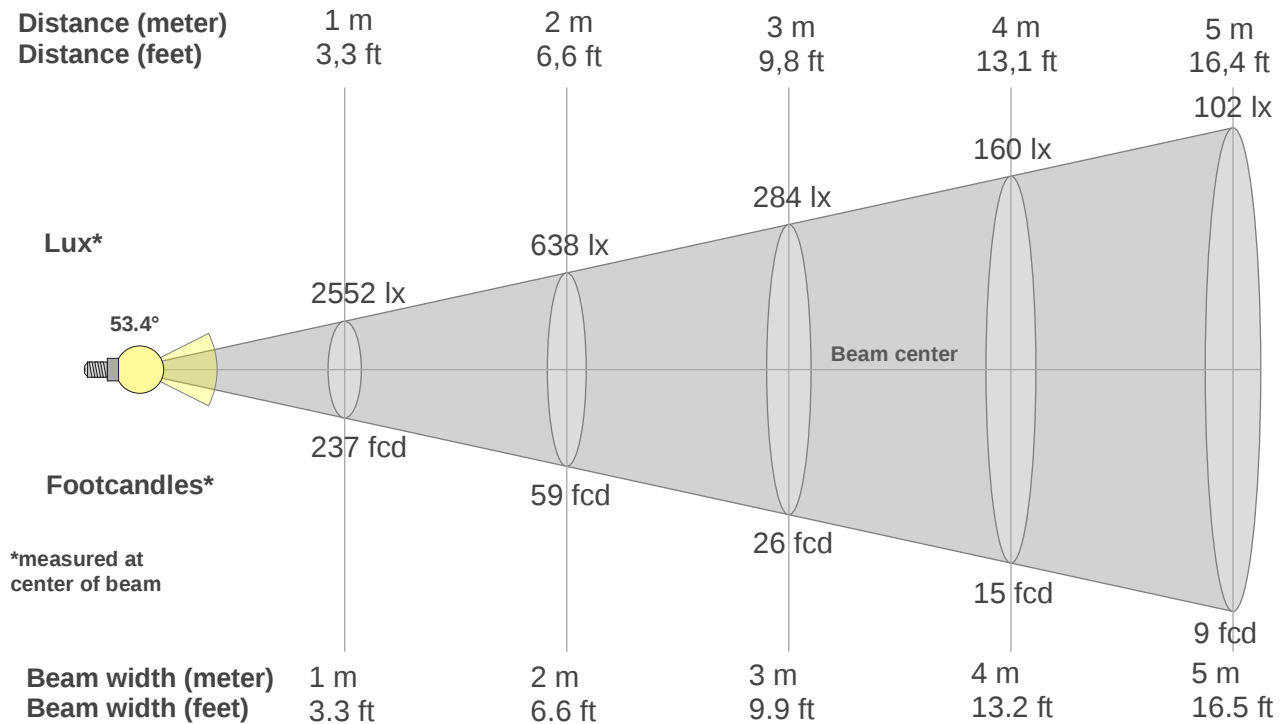
Color distortion



Hue bin



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
2552lx	638lx	284lx	160lx	102lx	71lx	52lx	40lx	32lx	26lx	21lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
237.1fcd	59.3fcd	26.3fcd	14.8fcd	9.5fcd	6.6fcd	4.8fcd	3.7fcd	2.9fcd	2.4fcd	2fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	0.9fcd	0.8fcd	0.7fcd	0.7fcd	0.6fcd

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°
2552	2535	2533	2494	2474	2418	2365	2278	2176	2030	1874	1675	1414	1122	821	592	446	343	255	189
100%	99%	99%	98%	97%	95%	93%	89%	85%	80%	73%	66%	55%	44%	32%	23%	17%	13%	10%	7%

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°
2552	2548	2531	2504	2469	2429	2374	2291	2177	2038	1894	1716	1454	1134	818	580	440	340	249	187
100%	100%	99%	98%	97%	95%	93%	90%	85%	80%	74%	67%	57%	44%	32%	23%	17%	13%	10%	7%

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°
2552	2535	2533	2494	2474	2418	2365	2278	2176	2030	1874	1675	1414	1122	821	592	446	343	255	189
100%	99%	99%	98%	97%	95%	93%	89%	85%	80%	73%	66%	55%	44%	32%	23%	17%	13%	10%	7%

Intensities in 270° c-plane

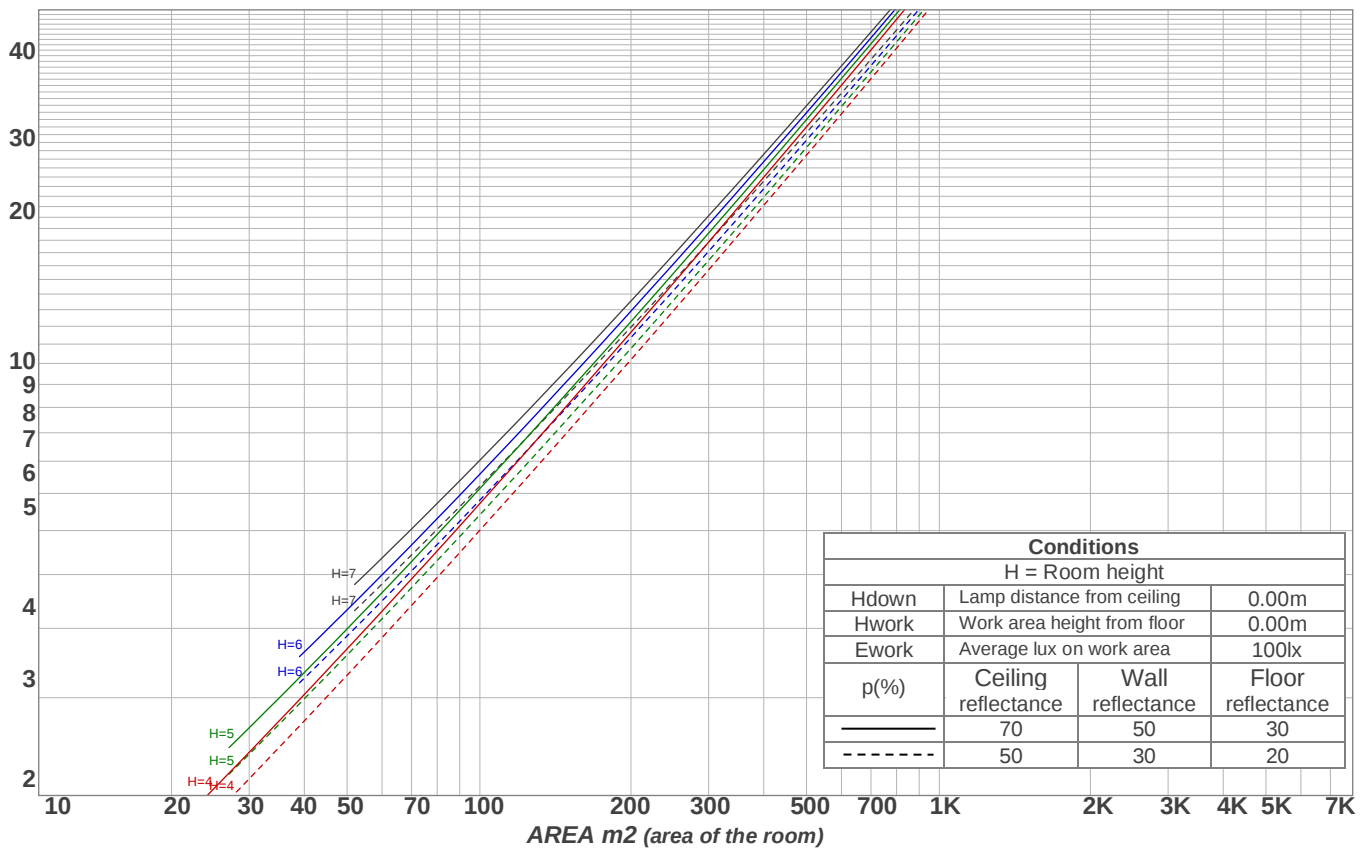
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2552	2548	2531	2504	2469	2429	2374	2291	2177	2038	1894	1716	1454	1134	818	580	440	340	249	187
100%	100%	99%	98%	97%	95%	93%	90%	85%	80%	74%	67%	57%	44%	32%	23%	17%	13%	10%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
53.4°	73.6°	88.4°	99.5%	98.0%

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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	90	88	92	89	86	89	87	85	83
4	99	92	87	83	97	91	86	83	89	85	82	87	84	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	90	82	77	73	89	82	76	73	80	75	72	79	75	72	77	74	71	70
7	86	78	72	69	85	77	72	68	76	71	68	75	71	68	74	70	67	66
8	83	74	68	65	82	73	68	65	72	68	64	71	67	64	70	67	64	62
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	63	60	59
10	76	67	62	58	75	67	61	58	66	61	58	65	61	58	64	60	57	56

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
237 lm	621 lm	637 lm	252 lm	47.8 lm	12.2 lm	4.91 lm	2.34 lm	1.39 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	29.9	30.5	30.0	30.7	30.9	29.8	30.4	29.9	30.6	30.8
	3H	29.6	30.3	30.0	30.6	30.7	29.6	30.3	29.9	30.5	30.7
	4H	29.6	30.3	30.0	30.5	30.7	29.5	30.2	29.9	30.4	30.7
	6H	29.6	30.1	29.9	30.4	30.8	29.5	30.1	29.8	30.4	30.7
	8H	29.5	30.1	29.9	30.4	30.8	29.5	30.0	29.8	30.3	30.7
	12H	29.5	30.0	29.8	30.4	30.8	29.4	30.0	29.8	30.3	30.7
4H	2H	29.6	30.2	29.9	30.5	30.7	29.5	30.2	29.9	30.4	30.6
	3H	29.5	30.0	29.8	30.4	30.8	29.4	29.9	29.8	30.3	30.7
	4H	29.4	29.8	29.8	30.3	30.8	29.3	29.8	29.7	30.2	30.7
	6H	29.3	29.8	29.8	30.2	30.5	29.2	29.8	29.7	30.1	30.4
	8H	29.2	29.7	29.8	30.1	30.4	29.2	29.7	29.7	30.0	30.4
	12H	29.2	29.6	29.7	30.0	30.5	29.2	29.5	29.7	30.0	30.4
8H	4H	29.2	29.7	29.7	30.1	30.4	29.2	29.7	29.7	30.0	30.4
	6H	29.2	29.5	29.7	30.0	30.5	29.1	29.5	29.6	29.9	30.4
	8H	29.2	29.5	29.7	30.0	30.6	29.2	29.4	29.7	29.9	30.6
	12H	29.2	29.4	29.8	29.9	30.5	29.1	29.4	29.7	29.9	30.5
12H	4H	29.2	29.5	29.7	30.0	30.4	29.1	29.5	29.6	29.9	30.4
	6H	29.2	29.4	29.7	30.0	30.6	29.1	29.4	29.7	29.9	30.5
	8H	29.2	29.4	29.7	29.9	30.5	29.1	29.3	29.7	29.8	30.4
Corrected glare indices referring to 1816 lm total luminous flux											