

Light efficiency:

65 Lumen/Watt

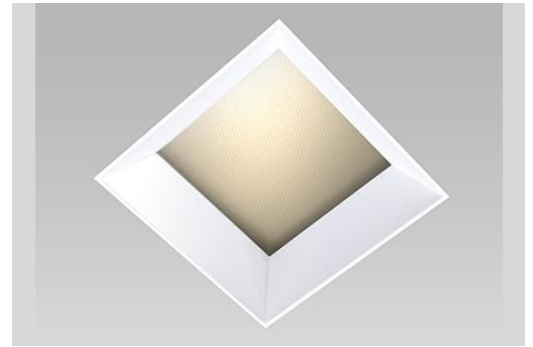
Output: 1947 lm

Light quality:

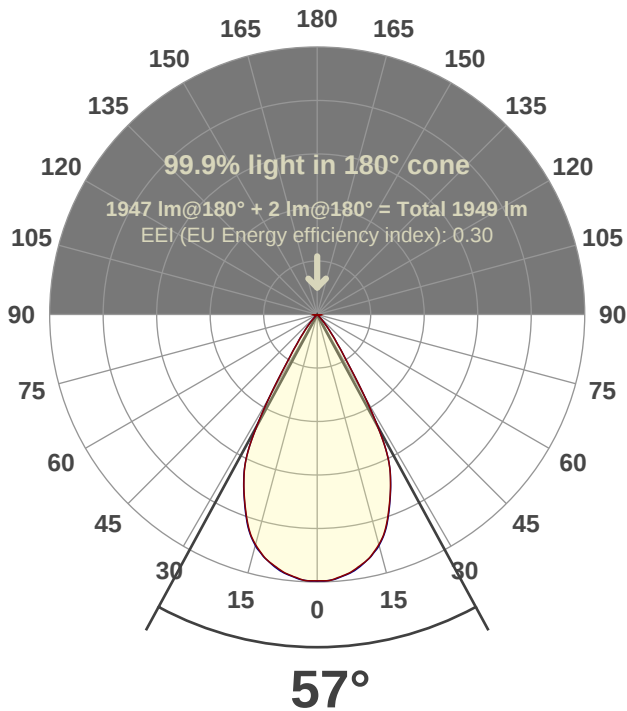
CRI: 92.4

Peak: 2496 cd

Power: 30.0 W



Beam angle



Test number:

CR4D-S-OR-C28-30k-55 (1017-CZ20-WF)

Luminaire Model:

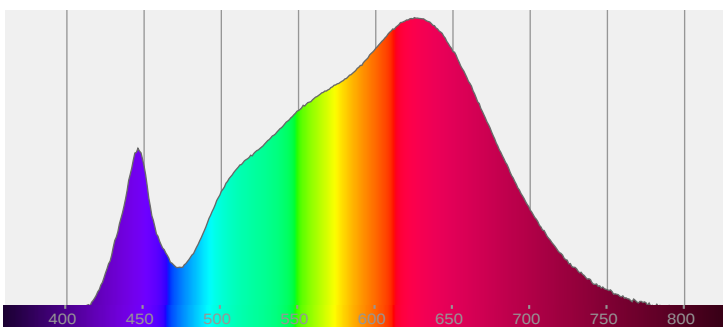
Core 4" Square Open Regress C28 30K 55°

Date and time:

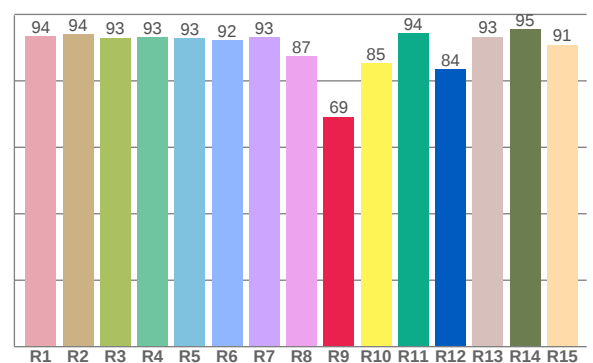
3/31/2017 2:11:34 PM

LUM: 1947

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	0.247	0.346	-0.0005

R_f 90.3

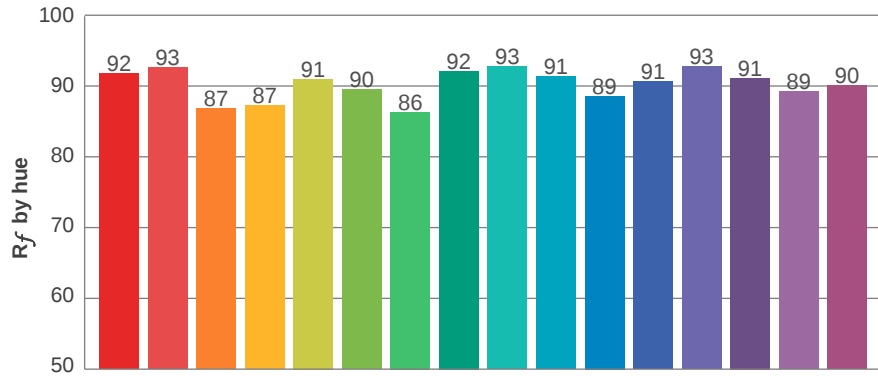
Fidelity index R_f

R_g 103.1

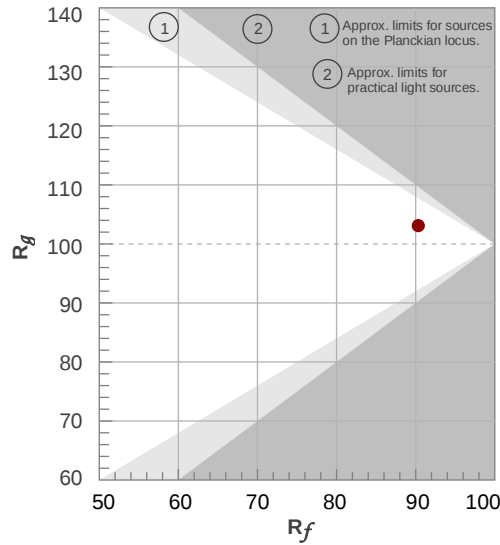
Gammut index R_g

TM30: 90.3

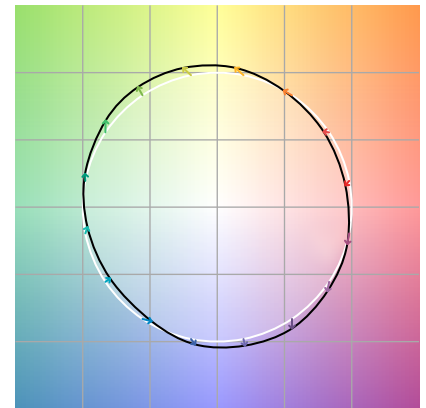
TM-30Color



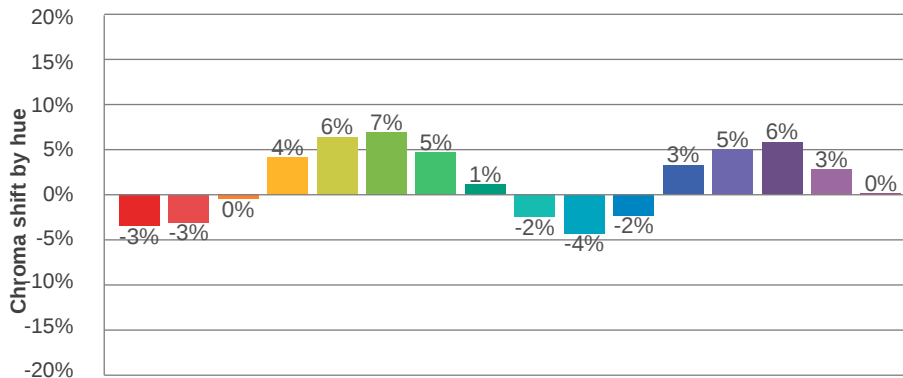
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-3%	-3%
2	93	-3%	3%
3	87	0%	7%
4	87	4%	7%
5	91	6%	5%
6	90	7%	-1%
7	86	5%	-7%
8	92	1%	-5%
9	93	-2%	-4%
10	91	-4%	0%
11	89	-2%	7%
12	91	3%	4%
13	93	5%	0%
14	91	6%	-4%
15	89	3%	-6%
16	90	0%	-8%



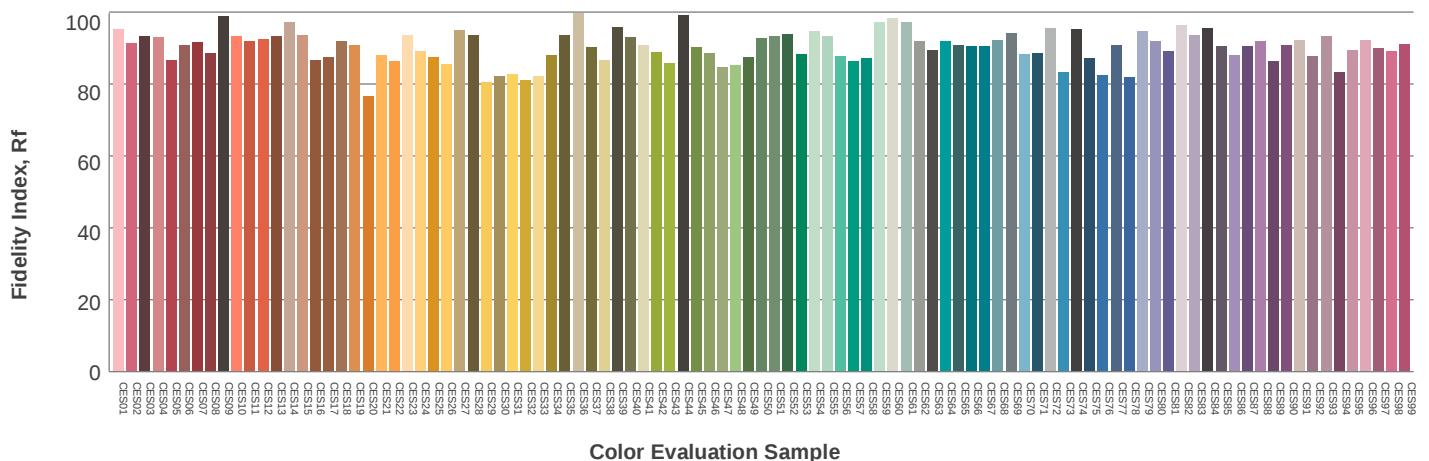
Color vector graphics



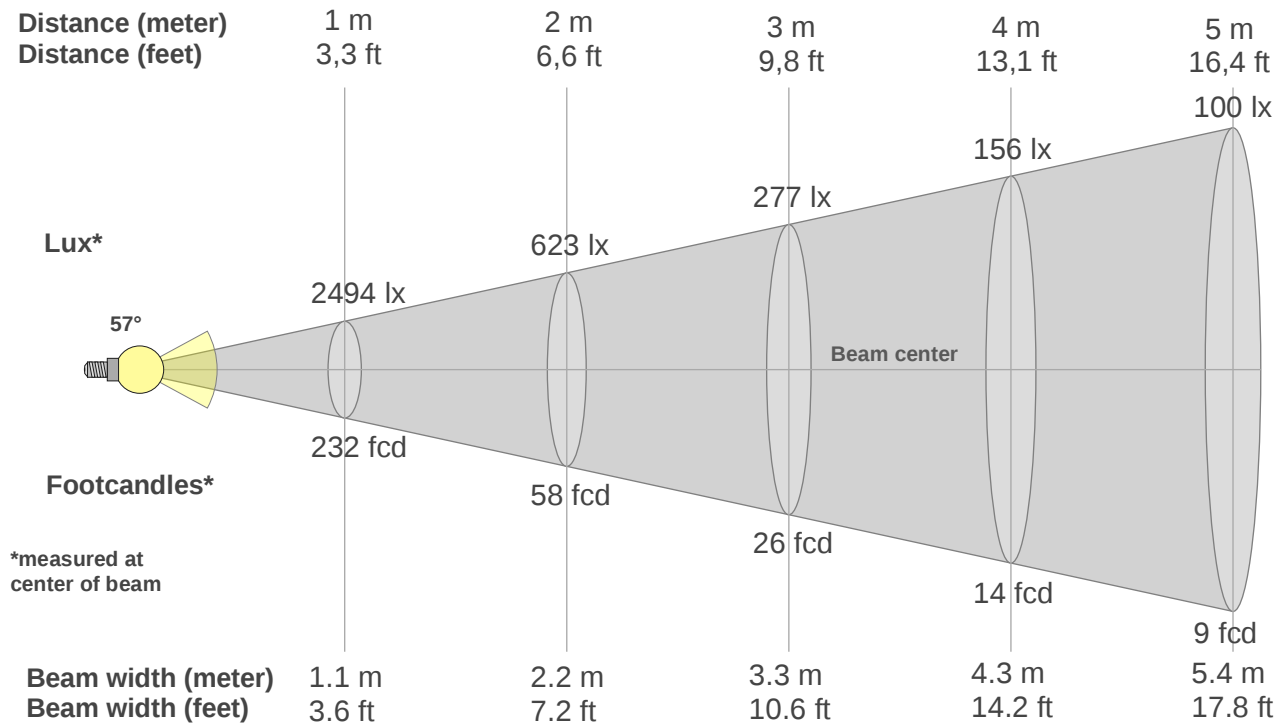
Color distortion



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
2494lx	623lx	277lx	156lx	100lx	69lx	51lx	39lx	31lx	25lx	21lx	17lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx
231.7fc	57.9fcd	25.7fcd	14.5fcd	9.3fcd	6.4fcd	4.7fcd	3.6fcd	2.9fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	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°
2494	2491	2475	2450	2418	2376	2331	2265	2188	2086	1957	1825	1688	1533	1272	924	589	402	282	195
100%	100%	99%	98%	97%	95%	93%	91%	88%	84%	78%	73%	68%	61%	51%	37%	24%	16%	11%	8%

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°
2494	2492	2479	2454	2426	2383	2333	2272	2195	2094	1965	1830	1693	1531	1273	918	578	398	281	195
100%	100%	99%	98%	97%	96%	94%	91%	88%	84%	79%	73%	68%	61%	51%	37%	23%	16%	11%	8%

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°
2494	2491	2475	2450	2418	2376	2331	2265	2188	2086	1957	1825	1688	1533	1272	924	589	402	282	195
100%	100%	99%	98%	97%	95%	93%	91%	88%	84%	78%	73%	68%	61%	51%	37%	24%	16%	11%	8%

Intensities in 270° c-plane

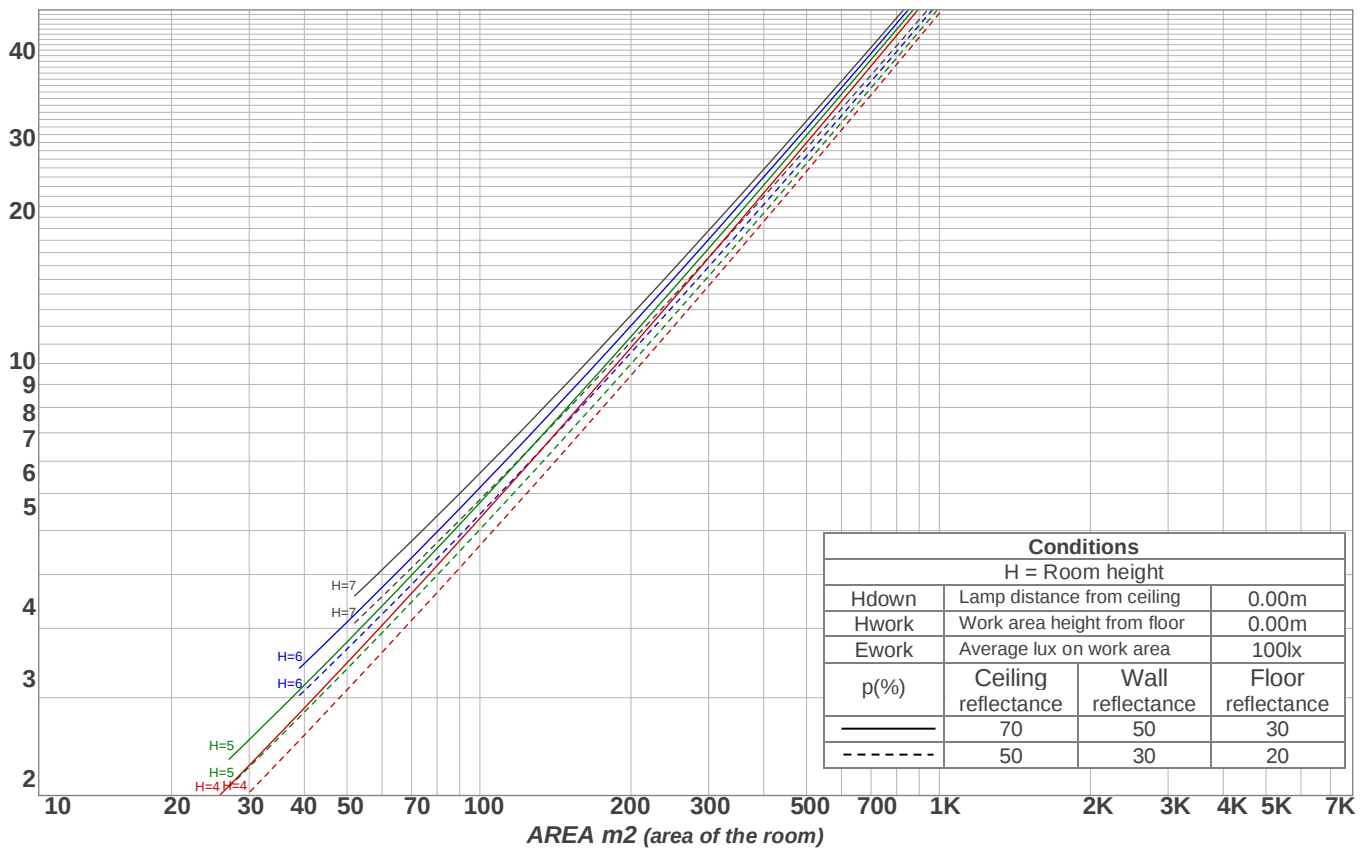
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2494	2492	2479	2454	2426	2383	2333	2272	2195	2094	1965	1830	1693	1531	1273	918	578	398	281	195
100%	100%	99%	98%	97%	96%	94%	91%	88%	84%	79%	73%	68%	61%	51%	37%	23%	16%	11%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
57°	76°	89,4°	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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	103	97	93	89	102	96	92	88	93	90	87	91	88	86	89	86	84	83
4	99	92	86	82	97	90	86	82	88	84	81	86	83	80	85	82	79	78
5	94	86	81	77	93	85	80	76	84	79	76	82	78	75	80	77	74	73
6	90	81	76	72	88	81	75	71	79	74	71	78	74	71	76	73	70	69
7	86	77	71	67	84	76	71	67	75	70	67	74	70	66	73	69	66	65
8	82	73	67	63	81	72	67	63	71	66	63	70	66	63	69	65	62	61
9	78	69	64	60	77	69	63	60	68	63	59	67	62	59	66	62	59	58
10	75	66	60	57	74	65	60	56	64	60	56	64	59	56	63	59	56	55

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
233 lm	621 lm	715 lm	297 lm	55.6 lm	12.6 lm	6.81 lm	3.90 lm	1.46 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	31.4	32.0	31.5	32.3	32.5	31.4	32.0	31.5	32.2	32.4
	3H	31.2	31.9	31.5	32.1	32.3	31.1	31.9	31.5	32.1	32.3
	4H	31.1	31.8	31.5	32.0	32.3	31.1	31.8	31.5	32.0	32.3
	6H	31.1	31.7	31.4	32.0	32.4	31.1	31.7	31.4	32.0	32.4
	8H	31.1	31.6	31.4	32.0	32.4	31.1	31.7	31.4	32.0	32.4
	12H	31.0	31.6	31.4	31.9	32.4	31.1	31.6	31.4	31.9	32.4
4H	2H	31.1	31.8	31.5	32.0	32.3	31.0	31.7	31.4	32.0	32.2
	3H	31.0	31.6	31.4	31.9	32.3	31.0	31.6	31.4	31.9	32.3
	4H	30.9	31.4	31.3	31.8	32.4	30.9	31.4	31.3	31.8	32.4
	6H	30.9	31.4	31.4	31.7	32.1	30.9	31.4	31.4	31.8	32.1
	8H	30.8	31.3	31.3	31.7	32.0	30.9	31.4	31.4	31.7	32.1
	12H	30.8	31.2	31.3	31.6	32.0	30.8	31.2	31.3	31.6	32.1
8H	4H	30.8	31.3	31.3	31.6	32.0	30.8	31.3	31.3	31.6	32.0
	6H	30.8	31.1	31.3	31.6	32.1	30.8	31.1	31.3	31.6	32.1
	8H	30.8	31.1	31.3	31.6	32.2	30.8	31.1	31.3	31.6	32.2
	12H	30.8	31.0	31.3	31.5	32.1	30.8	31.0	31.4	31.5	32.1
12H	4H	30.7	31.1	31.2	31.5	32.0	30.7	31.1	31.2	31.5	32.0
	6H	30.8	31.0	31.3	31.6	32.2	30.8	31.1	31.3	31.6	32.2
	8H	30.7	31.0	31.3	31.5	32.1	30.8	31.0	31.4	31.5	32.1
Corrected glare indices referring to 1947 lm total luminous flux											