

Light efficiency:



Output: 1488 lm



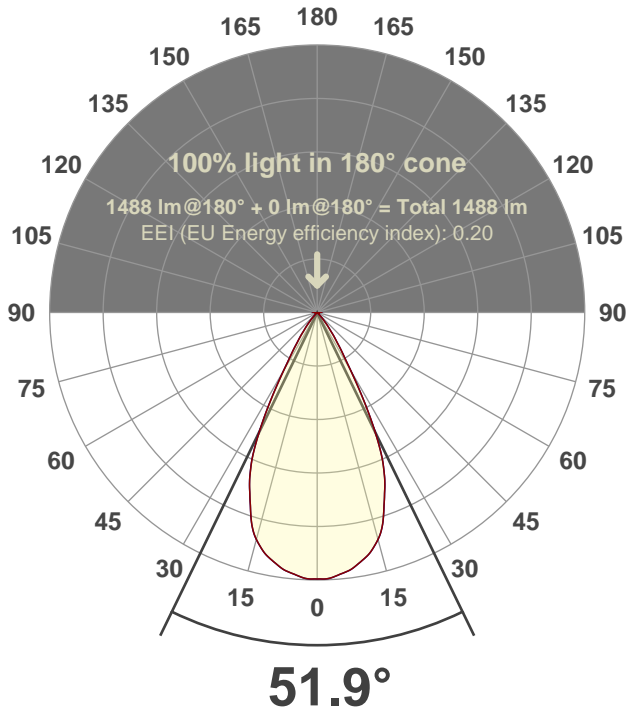
Light quality:



Peak: 2202 cd

Power: 21.1 W

Beam angle



Test number:

CR4D-R-DR-C20-30k-55° (4001-CZ20-WF)

Luminaire Model:

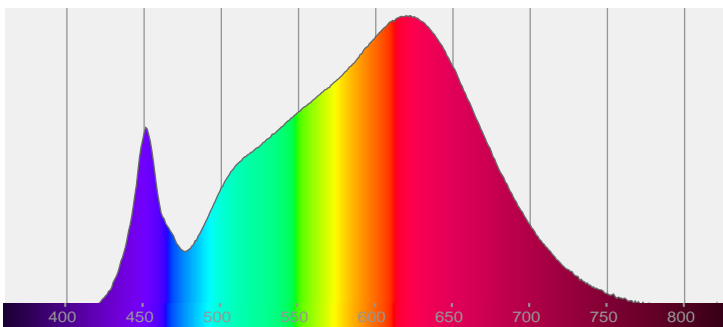
Core 4" Round Deep Regress C20 30k 55°

Date and time:

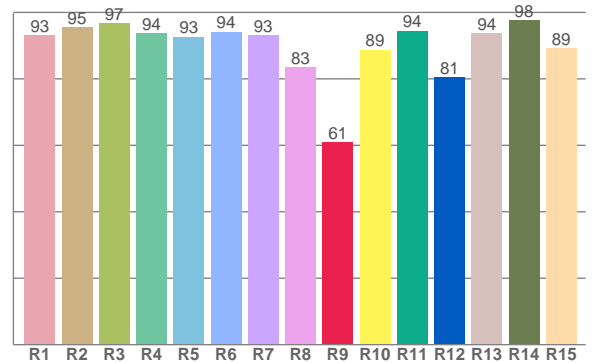
6/14/2017 2:10:56 PM

LUM: 1488

Spectra



CRI: 92.8 (R1-R8)

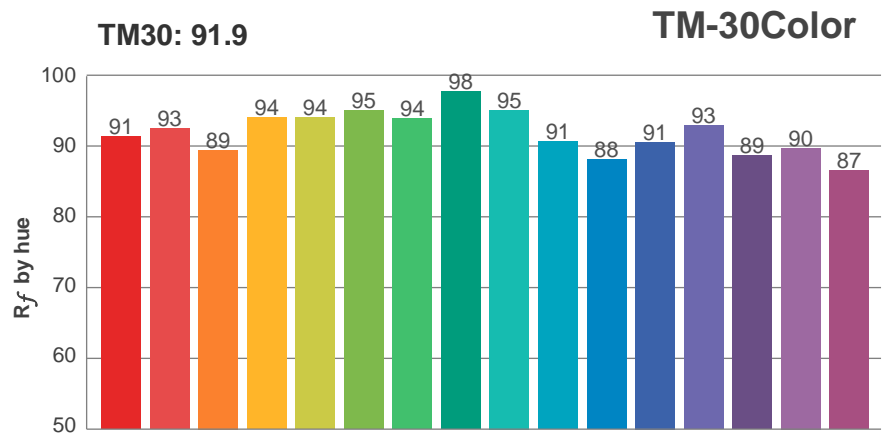


Color parameters

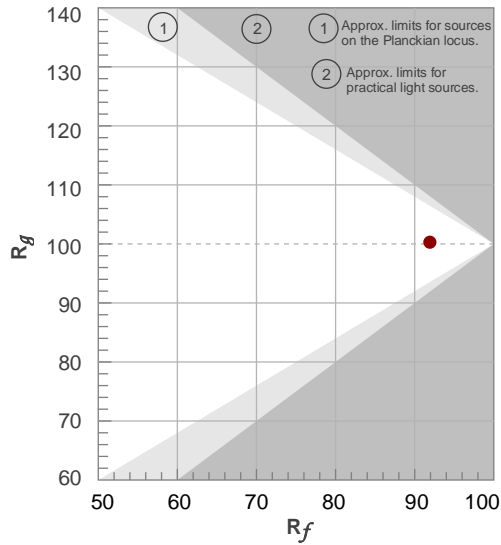
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.8	60.8	91.9	100.3	91.1	0.428	0.401	0.246	0.346	-0.0001

R_f 91.9
Fidelity index R_f

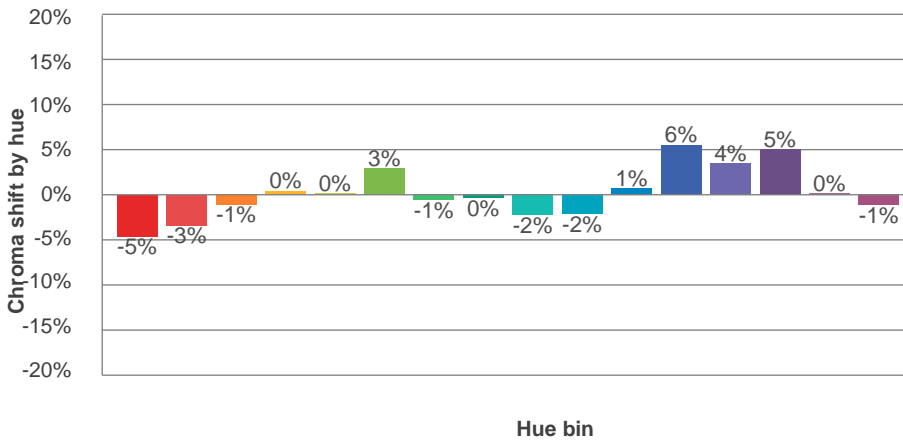
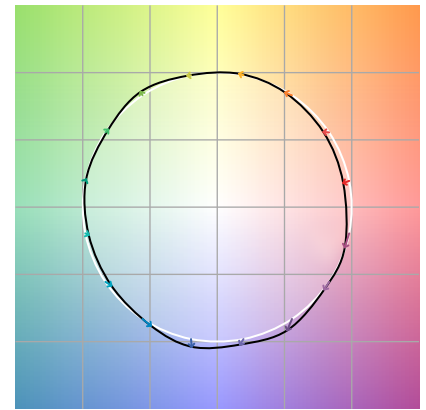
R_g 100.3
Gammut index R_g



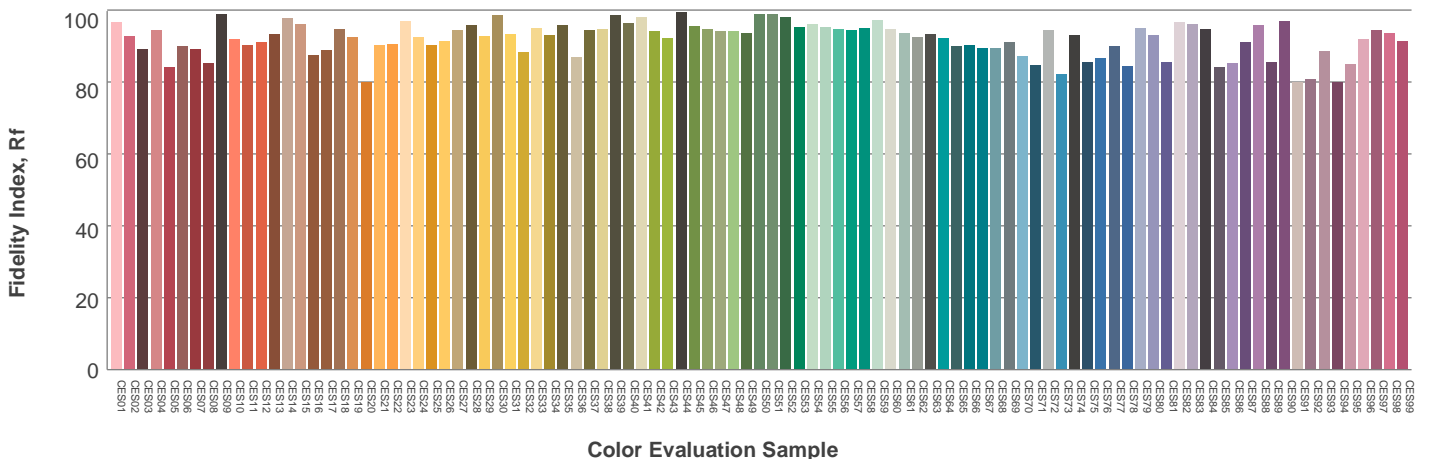
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	91	-5%	-1%
2	93	-3%	3%
3	89	-1%	5%
4	94	0%	3%
5	94	0%	3%
6	95	3%	0%
7	94	-1%	-3%
8	98	0%	-1%
9	95	-2%	2%
10	91	-2%	5%
11	88	1%	8%
12	91	6%	2%
13	93	4%	-3%
14	89	5%	-8%
15	90	0%	-7%
16	87	-1%	-11%



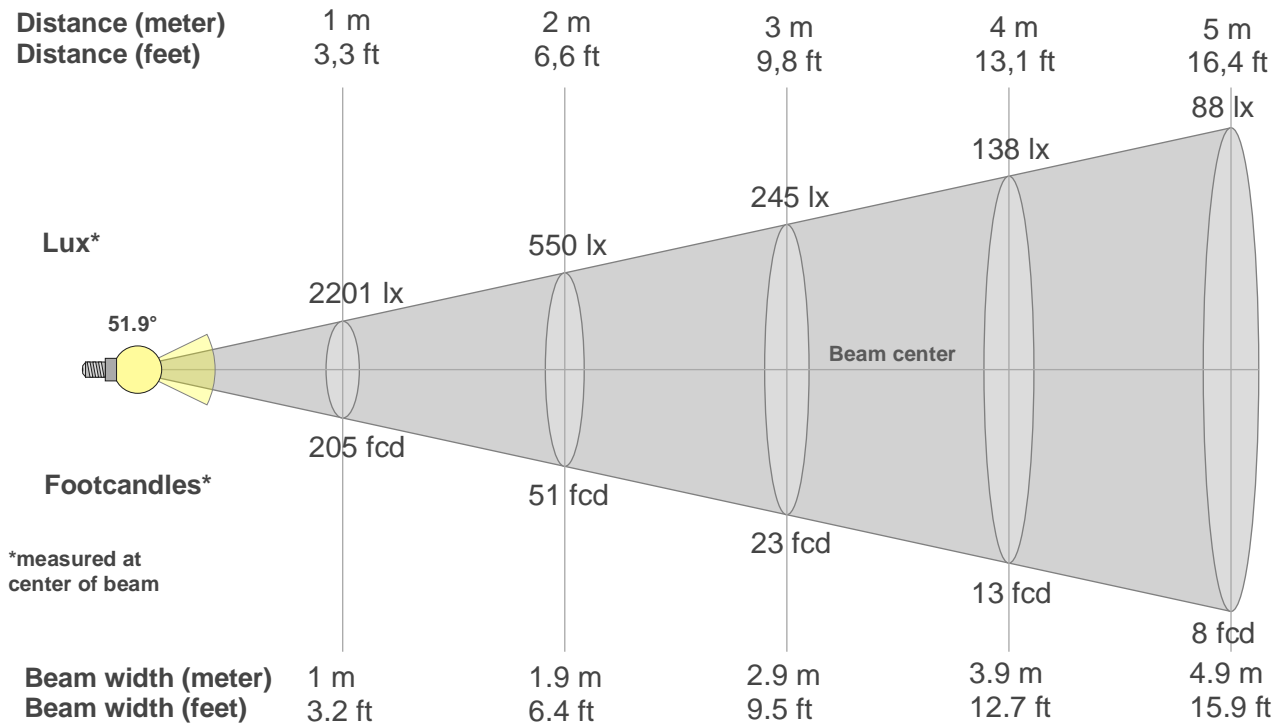
Color vector graphics



Color distortion



Beam details



*measured at center of beam

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
2201lx	550lx	245lx	138lx	88lx	61lx	45lx	34lx	27lx	22lx	18lx	15lx	13lx	11lx	10lx	9lx	8lx	7lx	6lx	6lx
204.5fcd	51.1fcd	22.7fcd	12.8fcd	8.2fcd	5.7fcd	4.2fcd	3.2fcd	2.5fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.6fcd	0.5fcd

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°
2201	2201	2183	2160	2132	2089	2044	1979	1899	1775	1629	1494	1327	1092	825	576	408	297	223	158
100%	100%	99%	98%	97%	95%	93%	90%	86%	81%	74%	68%	60%	50%	37%	26%	19%	14%	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°
2201	2201	2183	2160	2132	2089	2044	1979	1899	1775	1629	1494	1327	1092	825	576	408	297	223	158
100%	100%	99%	98%	97%	95%	93%	90%	86%	81%	74%	68%	60%	50%	37%	26%	19%	14%	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°
2201	2201	2183	2160	2132	2089	2044	1979	1899	1775	1629	1494	1327	1092	825	576	408	297	223	158
100%	100%	99%	98%	97%	95%	93%	90%	86%	81%	74%	68%	60%	50%	37%	26%	19%	14%	10%	7%

Intensities in 270° c-plane

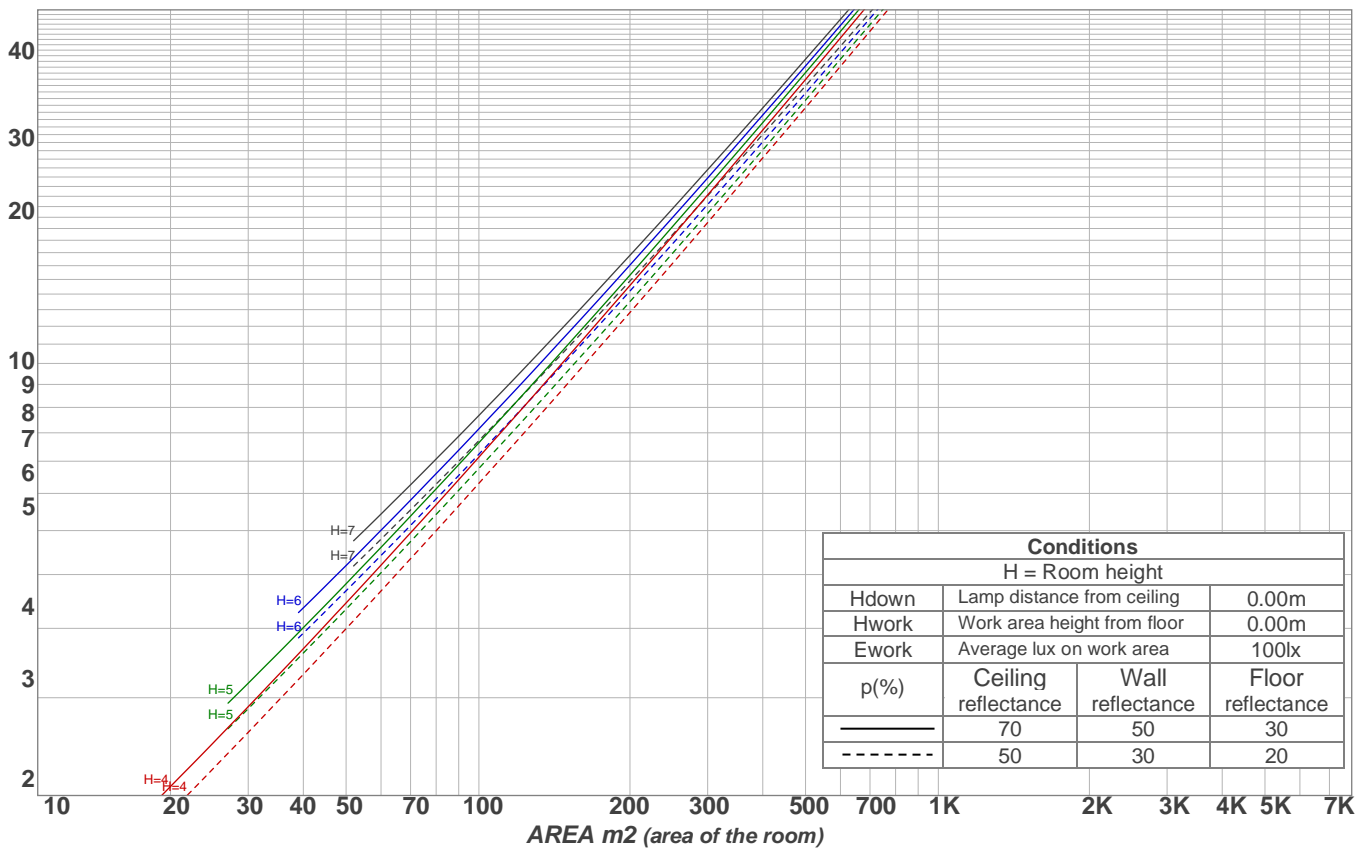
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2201	2201	2183	2160	2132	2089	2044	1979	1899	1775	1629	1494	1327	1092	825	576	408	297	223	158
100%	100%	99%	98%	97%	95%	93%	90%	86%	81%	74%	68%	60%	50%	37%	26%	19%	14%	10%	7%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
51.9°	72.1°	87.8°	99.7%	98.4%

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	50	30	10	0
Floor reflectance	20	20	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	100	100	100
1	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95	95	95	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89	89	89	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	88	86	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79	79	79	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75	75	75	75
6	91	83	78	74	90	82	77	74	81	76	73	80	76	73	78	75	72	71	71	71	71
7	87	79	73	70	86	78	73	70	77	72	69	76	72	69	75	71	68	67	67	67	67
8	84	75	70	66	82	74	69	66	73	69	66	72	68	65	72	68	65	64	64	64	64
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	65	62	61	61	61	61
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	66	62	59	58	58	58	58

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
205 lm	535 lm	525 lm	172 lm	37.8 lm	8.34 lm	2.69 lm	1.02 lm	0.567 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	29.1	29.6	29.2	29.8	30.0	29.1	29.6	29.2	29.8	30.0
	3H	28.8	29.5	29.1	29.7	29.8	28.8	29.5	29.1	29.7	29.8
	4H	28.7	29.4	29.1	29.6	29.8	28.7	29.4	29.1	29.6	29.8
	6H	28.7	29.3	29.0	29.6	29.9	28.7	29.3	29.0	29.6	29.9
	8H	28.7	29.2	29.0	29.5	29.9	28.7	29.2	29.0	29.5	29.9
	12H	28.6	29.1	29.0	29.5	29.9	28.6	29.1	29.0	29.5	29.9
4H	2H	28.7	29.4	29.1	29.6	29.8	28.7	29.4	29.1	29.6	29.8
	3H	28.6	29.1	29.0	29.5	29.9	28.6	29.1	29.0	29.5	29.9
	4H	28.5	28.9	28.9	29.4	29.9	28.5	28.9	28.9	29.4	29.9
	6H	28.4	28.9	28.9	29.2	29.6	28.4	28.9	28.9	29.2	29.6
	8H	28.3	28.8	28.9	29.2	29.5	28.3	28.8	28.9	29.2	29.5
	12H	28.3	28.7	28.8	29.1	29.5	28.3	28.7	28.8	29.1	29.5
8H	4H	28.3	28.8	28.8	29.2	29.5	28.3	28.8	28.8	29.2	29.5
	6H	28.3	28.6	28.8	29.1	29.6	28.3	28.6	28.8	29.1	29.6
	8H	28.3	28.5	28.8	29.0	29.7	28.3	28.5	28.8	29.0	29.7
	12H	28.2	28.4	28.8	28.9	29.5	28.2	28.4	28.8	28.9	29.5
12H	4H	28.3	28.6	28.8	29.0	29.5	28.3	28.6	28.8	29.0	29.5
	6H	28.3	28.5	28.8	29.0	29.7	28.3	28.5	28.8	29.0	29.7
	8H	28.2	28.4	28.8	28.9	29.5	28.2	28.4	28.8	28.9	29.5
Corrected glare indices referring to 1488 lm total luminous flux											