

Light efficiency:



Output: 2020 lm

Light quality:

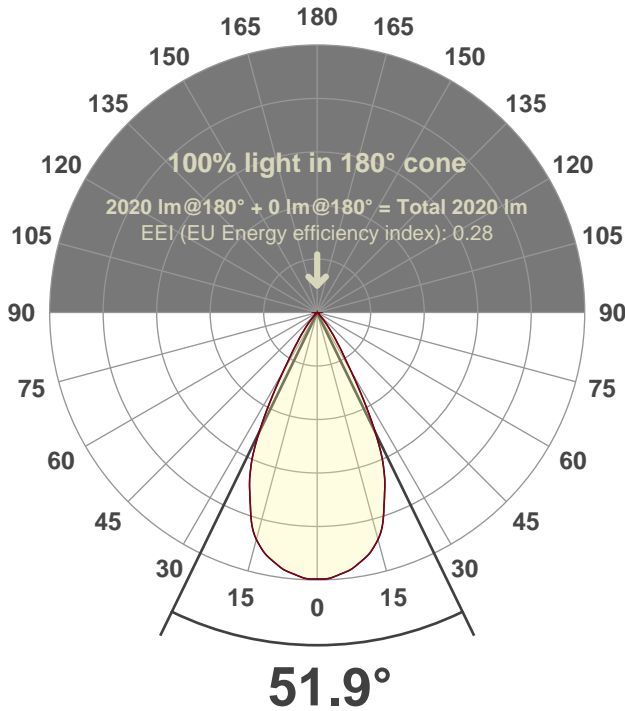


Peak: 2990 cd

Power: 29.9 W



Beam angle



Test number:

CR4D-R-DR-C28-30k-55° (4001-CZ20-WF)

Luminaire Model:

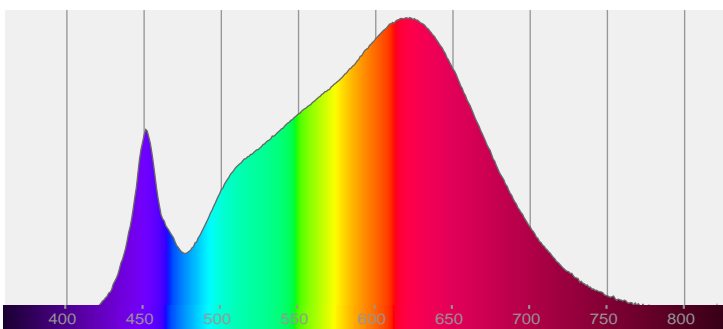
Core 4" Round Deep Regress C28 30k 55°

Date and time:

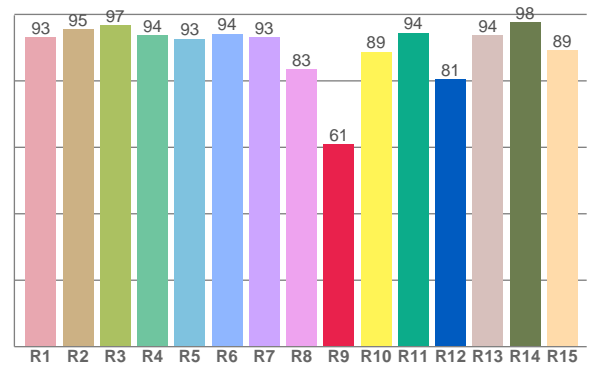
6/14/2017 2:10:56 PM

LUM: 2020

Spectra



CRI: 92.8 (R1-R8)



Color parameters

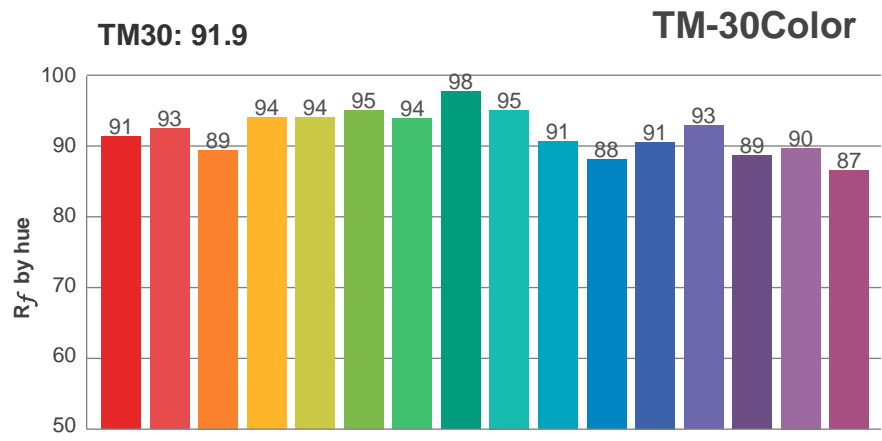
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.8	60.8	91.9	100.3	91.1	0.428	0.401	0.246	0.346	-0.0001

R_f 91.9

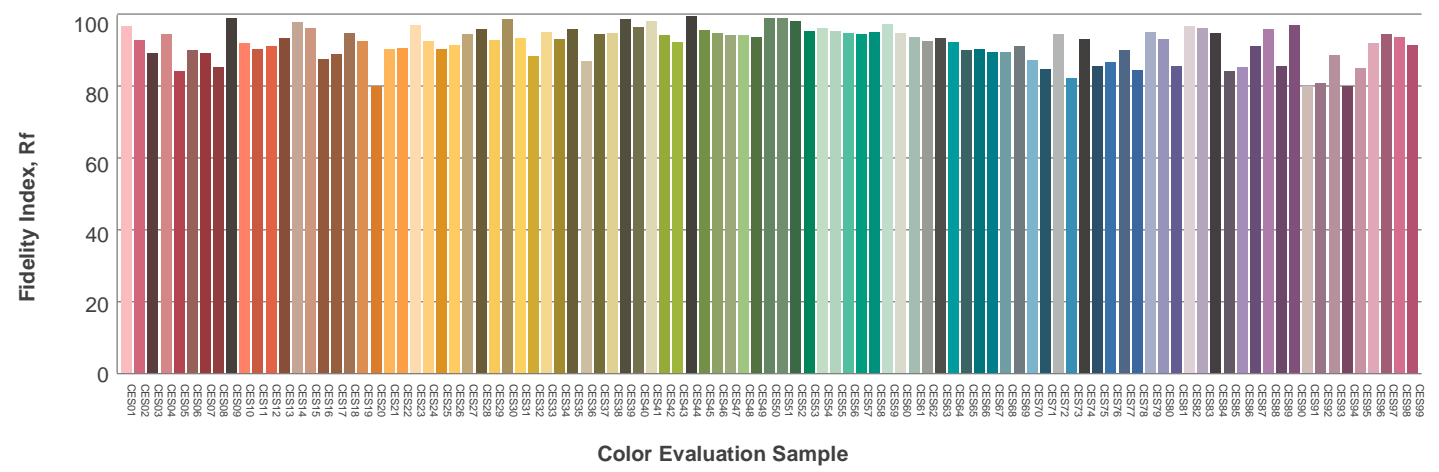
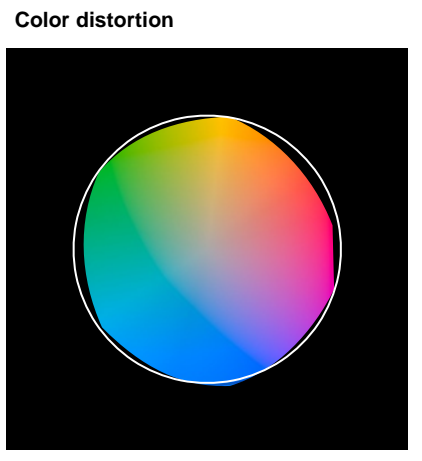
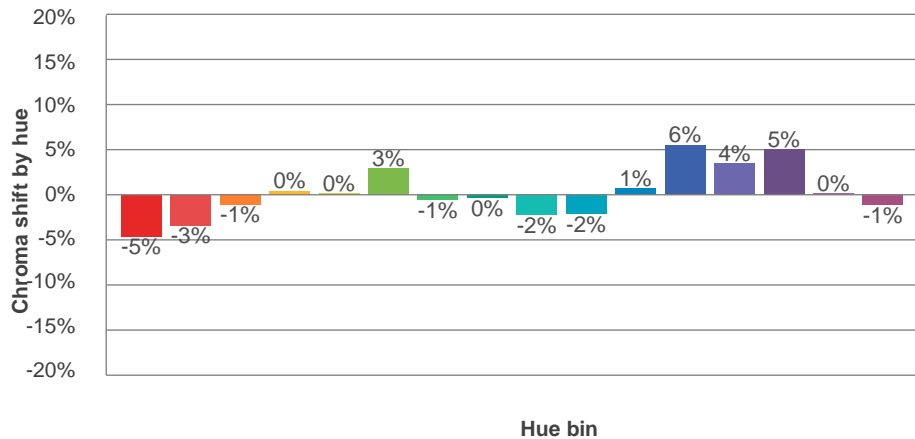
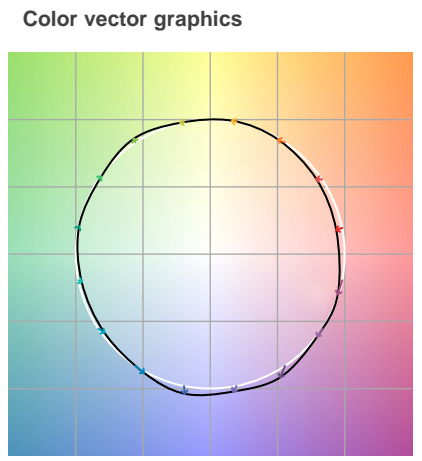
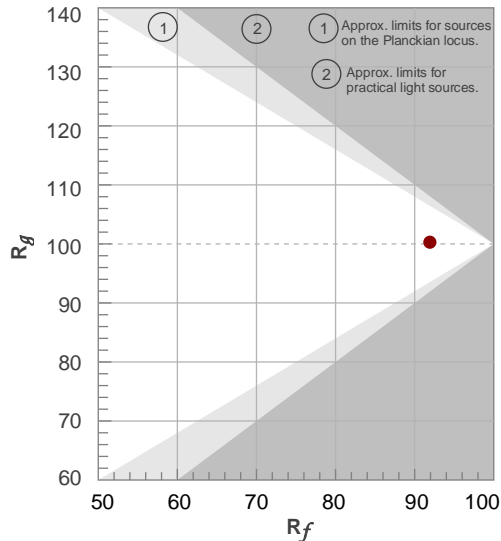
Fidelity index R_f

R_g 100.3

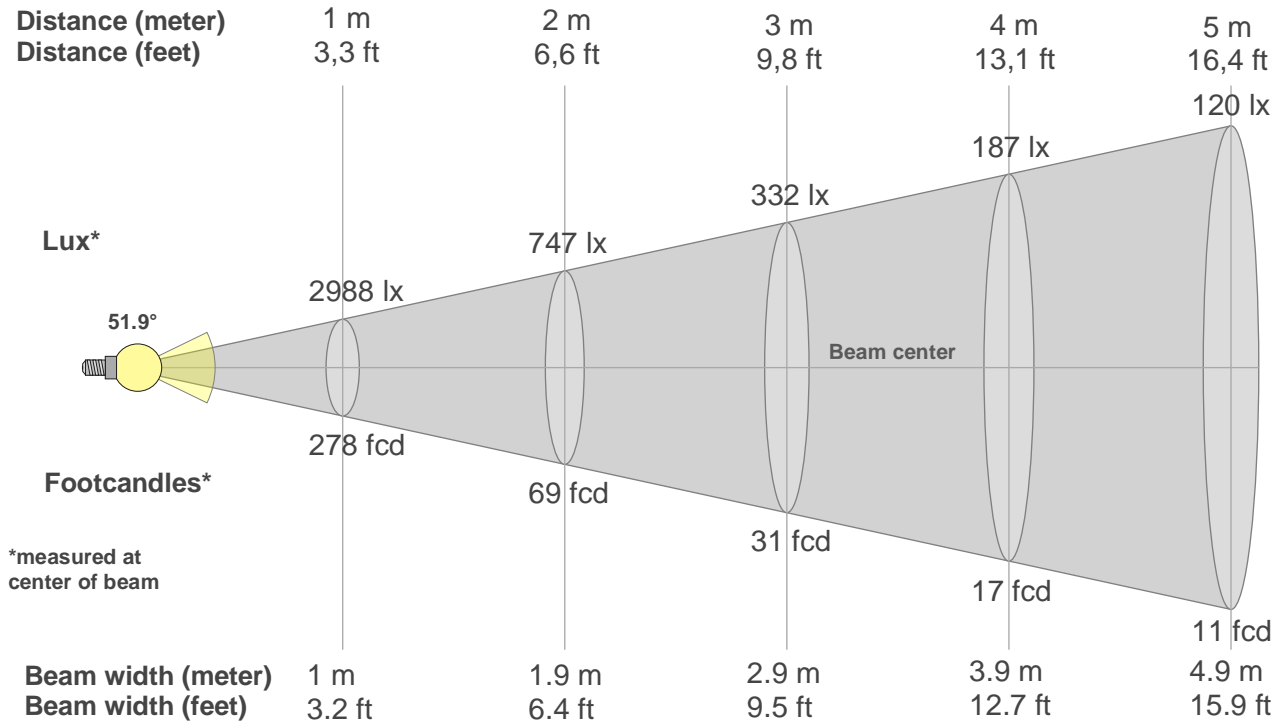
Gammut index R_g



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%



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
2988lx	747lx	332lx	187lx	120lx	83lx	61lx	47lx	37lx	30lx	25lx	21lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	7lx
277.6fcd	69.4fcd	30.8fcd	17.4fcd	11.1fcd	7.7fcd	5.7fcd	4.3fcd	3.4fcd	2.8fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

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°
2988	2988	2964	2932	2894	2835	2775	2687	2579	2409	2211	2028	1802	1483	1120	782	554	404	303	214
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°
2988	2988	2964	2932	2894	2835	2775	2687	2579	2409	2211	2028	1802	1483	1120	782	554	404	303	214
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°
2988	2988	2964	2932	2894	2835	2775	2687	2579	2409	2211	2028	1802	1483	1120	782	554	404	303	214
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

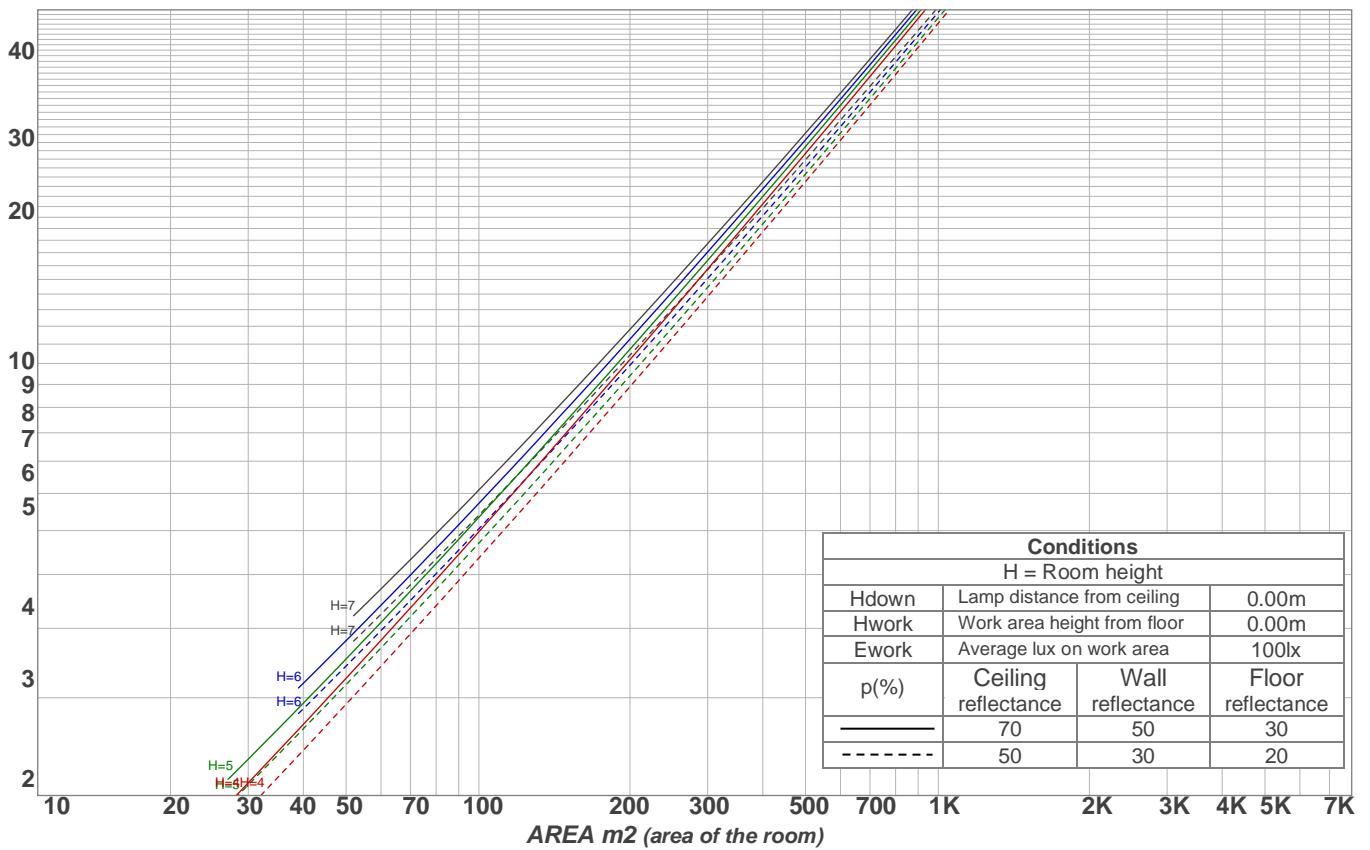
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
2988	2988	2964	2932	2894	2835	2775	2687	2579	2409	2211	2028	1802	1483	1120	782	554	404	303	214
100%	100%	99%	98%	97%	95%	93%	90%	86%	81%	74%	68%	60%	50%	37%	26%	19%	14%	10%	7%

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°
278 lm	727 lm	713 lm	234 lm	51.3 lm	11.3 lm	3.65 lm	1.38 lm	0.770 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	30.1	30.7	30.2	30.9	31.1	30.1	30.7	30.2	30.9	31.1
	3H	29.8	30.5	30.2	30.7	30.9	29.8	30.5	30.2	30.7	30.9
	4H	29.8	30.4	30.2	30.7	30.9	29.8	30.4	30.2	30.7	30.9
	6H	29.8	30.3	30.1	30.6	31.0	29.8	30.3	30.1	30.6	31.0
	8H	29.7	30.3	30.0	30.6	31.0	29.7	30.3	30.0	30.6	31.0
	12H	29.7	30.2	30.0	30.5	31.0	29.7	30.2	30.0	30.5	31.0
4H	2H	29.8	30.4	30.2	30.7	30.9	29.8	30.4	30.2	30.7	30.9
	3H	29.7	30.2	30.0	30.5	31.0	29.7	30.2	30.0	30.5	31.0
	4H	29.5	30.0	29.9	30.4	30.9	29.5	30.0	29.9	30.4	30.9
	6H	29.5	30.0	30.0	30.3	30.7	29.5	30.0	30.0	30.3	30.7
	8H	29.4	29.9	29.9	30.2	30.6	29.4	29.9	29.9	30.2	30.6
	12H	29.4	29.7	29.9	30.1	30.6	29.4	29.7	29.9	30.1	30.6
8H	4H	29.4	29.9	29.9	30.2	30.6	29.4	29.9	29.9	30.2	30.6
	6H	29.3	29.7	29.8	30.1	30.6	29.3	29.7	29.8	30.1	30.6
	8H	29.4	29.6	29.9	30.1	30.7	29.4	29.6	29.9	30.1	30.7
	12H	29.3	29.5	29.9	30.0	30.6	29.3	29.5	29.9	30.0	30.6
12H	4H	29.3	29.7	29.8	30.1	30.6	29.3	29.7	29.8	30.1	30.6
	6H	29.3	29.6	29.9	30.1	30.7	29.3	29.6	29.9	30.1	30.7
	8H	29.3	29.5	29.9	30.0	30.6	29.3	29.5	29.9	30.0	30.6
Corrected glare indices referring to 2020 lm total luminous flux											