

Light efficiency:



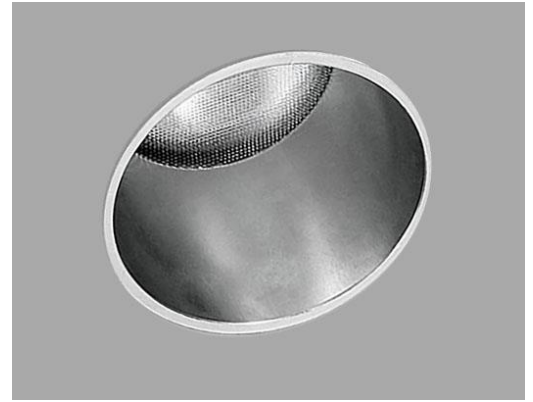
Output: 707 lm

Light quality:

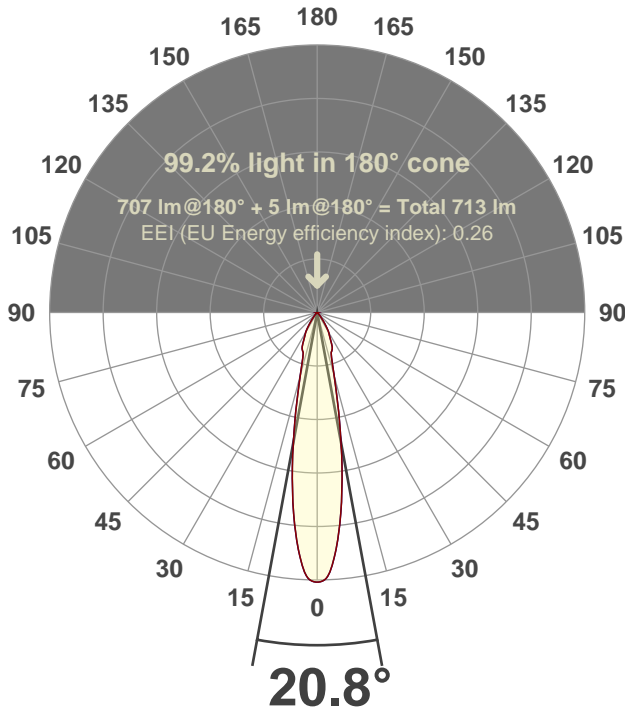


Peak: 2825 cd

Power: 14.6 W



Beam angle



Test number:

SCOD-R-DR-A14-30k-20°-CLEAR ANODIZE

Luminaire Model:

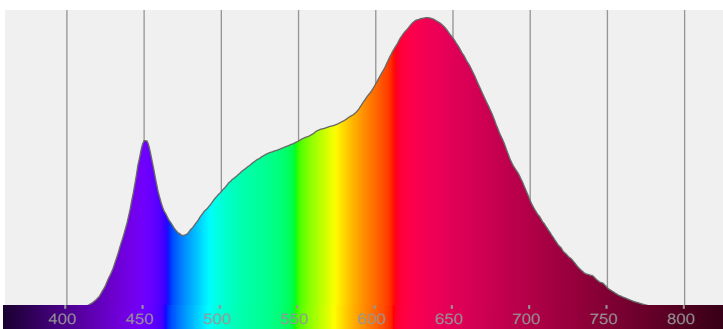
Scope Original Round Downlight - Deep Regress - A14-30k-20°

Date and time:

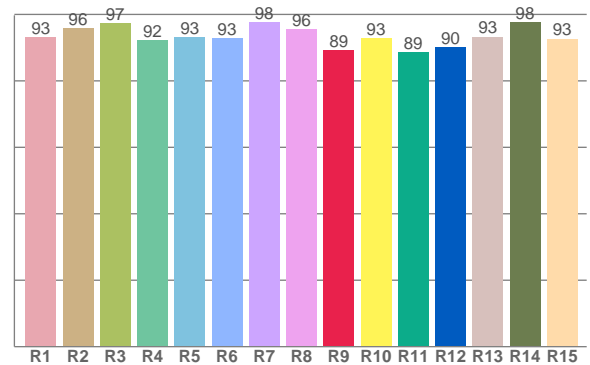
5/12/2021 8:08:29 PM

LUM: 707

Spectra



CRI: 94.7 (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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	94.7	89.2	94.9	105.5	95.1	0.418	0.380	0.248	0.339	-0.0070

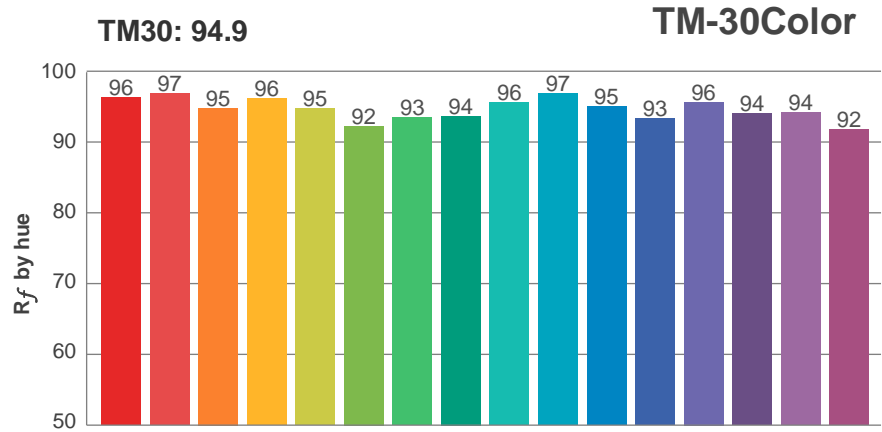
**$R_f$  94.9**

Fidelity index  $R_f$

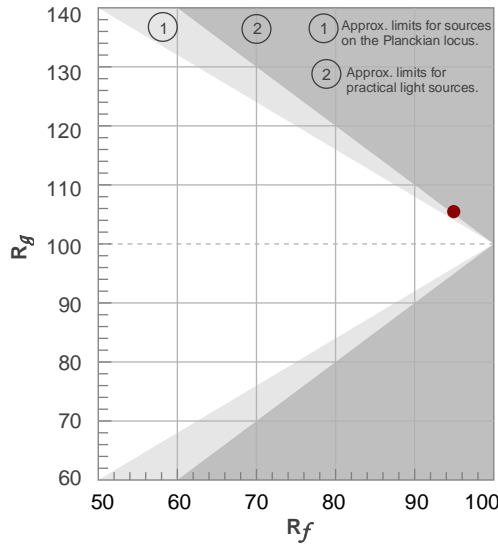
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**$R_g$  105.5**

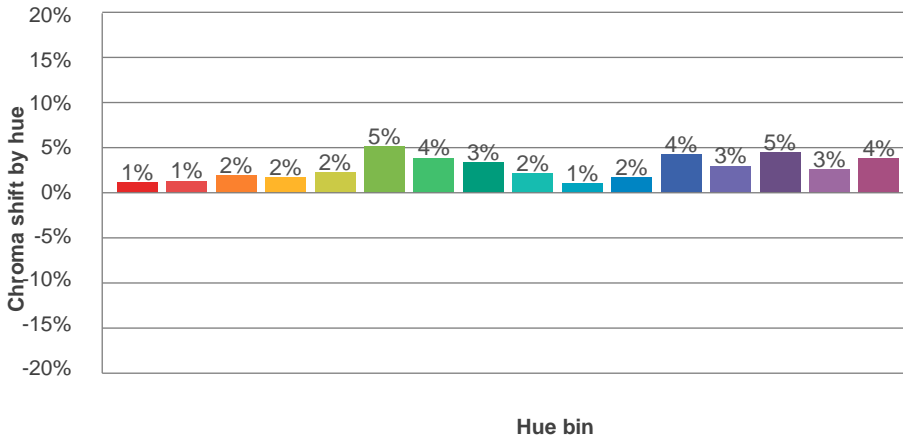
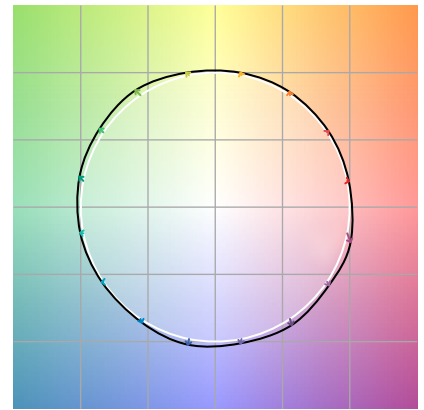
Gammut index  $R_g$



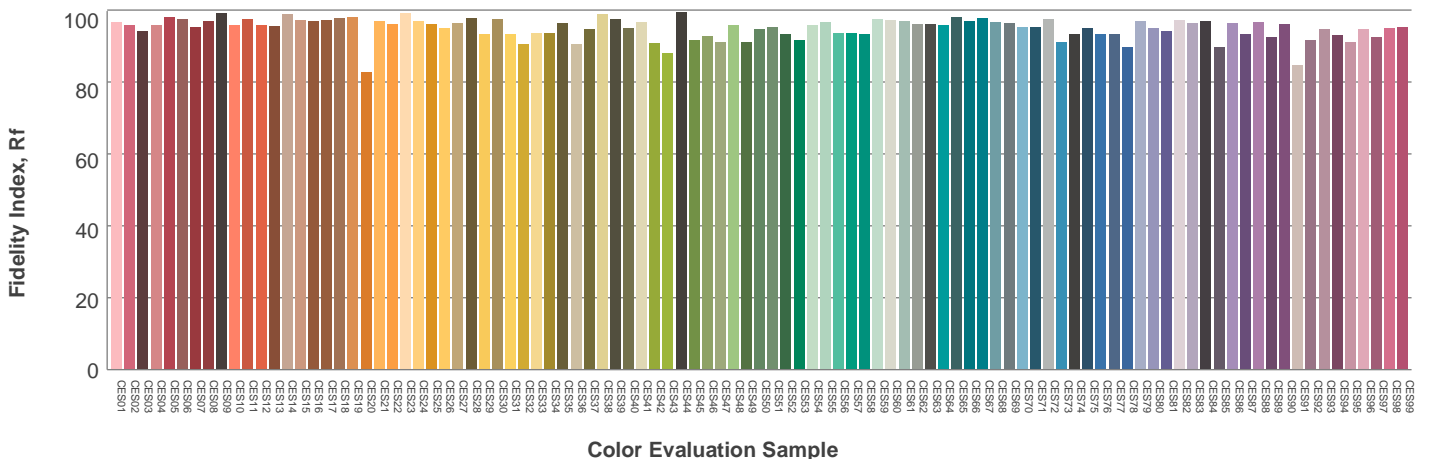
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	96	1%	-1%
2	97	1%	0%
3	95	2%	2%
4	96	2%	1%
5	95	2%	2%
6	92	5%	1%
7	93	4%	-1%
8	94	3%	-2%
9	96	2%	-1%
10	97	1%	-1%
11	95	2%	2%
12	93	4%	0%
13	96	3%	-1%
14	94	5%	-1%
15	94	3%	-1%
16	92	4%	-6%



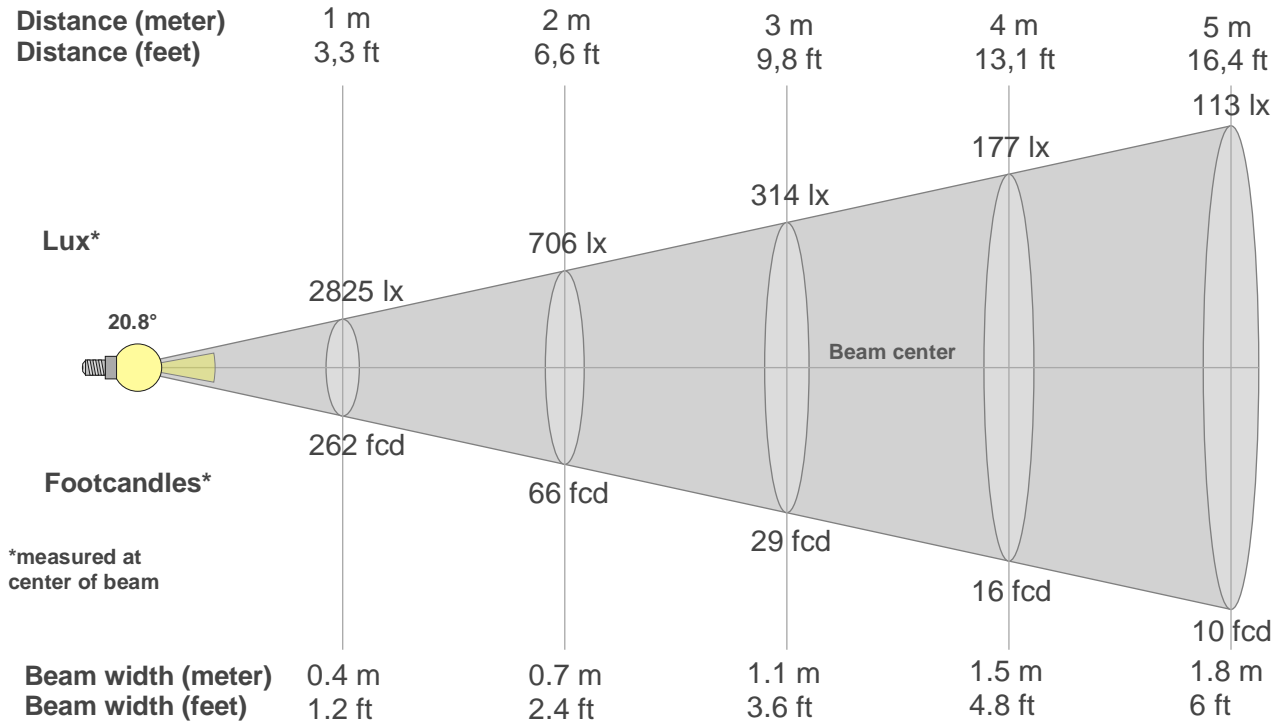
Color vector graphics



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
2825lx	706lx	314lx	177lx	113lx	78lx	58lx	44lx	35lx	28lx	23lx	20lx	17lx	14lx	13lx	11lx	10lx	9lx	8lx	7lx
262.4fcd	65.6fcd	29.2fcd	16.4fcd	10.5fcd	7.3fcd	5.4fcd	4.1fcd	3.2fcd	2.6fcd	2.2fcd	1.8fcd	1.6fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	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°
2825	2804	2590	2264	1886	1493	1121	817	622	504	445	420	390	330	284	247	209	162	122	91
100%	99%	92%	80%	67%	53%	40%	29%	22%	18%	16%	15%	14%	12%	10%	9%	7%	6%	4%	3%

#### 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°
2825	2804	2590	2264	1886	1493	1121	817	622	504	445	420	390	330	284	247	209	162	122	91
100%	99%	92%	80%	67%	53%	40%	29%	22%	18%	16%	15%	14%	12%	10%	9%	7%	6%	4%	3%

#### 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°
2825	2804	2590	2264	1886	1493	1121	817	622	504	445	420	390	330	284	247	209	162	122	91
100%	99%	92%	80%	67%	53%	40%	29%	22%	18%	16%	15%	14%	12%	10%	9%	7%	6%	4%	3%

#### 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°
2825	2804	2590	2264	1886	1493	1121	817	622	504	445	420	390	330	284	247	209	162	122	91
100%	99%	92%	80%	67%	53%	40%	29%	22%	18%	16%	15%	14%	12%	10%	9%	7%	6%	4%	3%

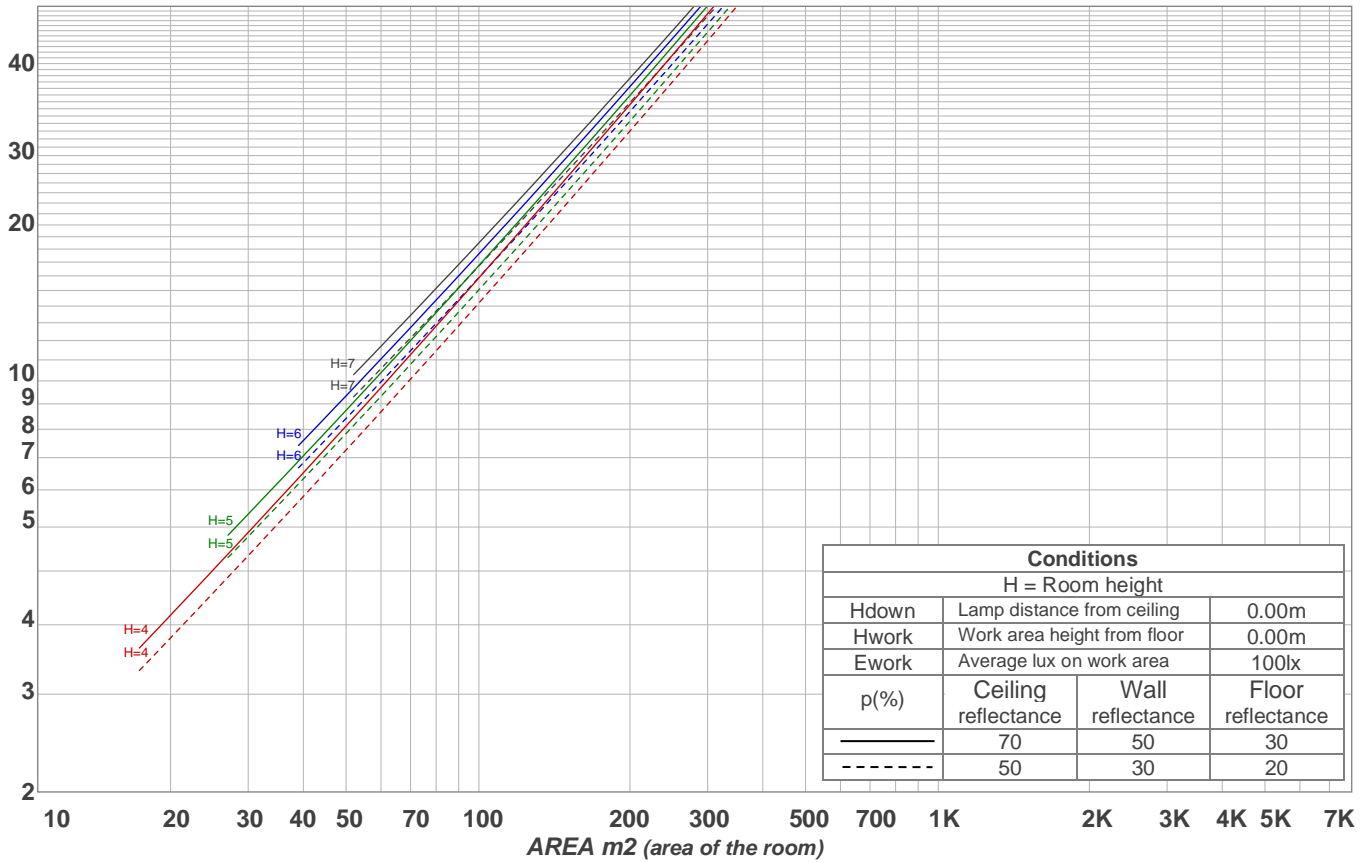
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.8°	56.1°	79.6°	98.2%	95.6%

### Light planning

LAMPS (number of lamps)

50

### Luminaire budgetary diagram



### 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	112	109	107	112	110	108	106	105	104	102	102	101	99	98	97	97	95	95	95	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90	90	90	90
3	105	99	95	92	103	98	94	91	96	92	89	93	90	88	91	89	87	85	85	85	85
4	101	94	90	86	99	93	89	85	91	87	84	89	86	83	87	85	83	81	81	81	81
5	97	90	85	81	95	89	84	81	87	83	80	86	82	79	84	81	79	77	77	77	77
6	93	86	81	77	92	85	80	77	83	79	76	82	78	76	81	78	75	74	74	74	74
7	90	82	77	73	88	81	77	73	80	76	73	79	75	72	78	75	72	71	71	71	71
8	86	79	74	70	85	78	73	70	77	73	70	76	72	69	75	72	69	68	68	68	68
9	83	75	71	67	83	75	70	67	74	70	67	73	69	67	73	69	66	65	65	65	65
10	81	73	68	65	80	72	68	65	72	67	64	71	67	64	70	67	64	63	63	63	63

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
202 lm	209 lm	161 lm	90.3 lm	30.2 lm	7.28 lm	3.20 lm	2.10 lm	2.04 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	30.0	30.5	30.1	30.8	30.9	30.0	30.5	30.1	30.8	30.9
	3H	29.8	30.4	30.1	30.6	30.8	29.8	30.4	30.1	30.6	30.8
	4H	29.7	30.4	30.1	30.6	30.9	29.7	30.4	30.1	30.6	30.9
	6H	29.8	30.4	30.1	30.7	31.0	29.8	30.4	30.1	30.7	31.0
	8H	29.9	30.4	30.2	30.7	31.1	29.9	30.4	30.2	30.7	31.1
	12H	30.0	30.5	30.3	30.8	31.2	30.0	30.5	30.3	30.8	31.2
4H	2H	29.7	30.3	30.1	30.5	30.8	29.7	30.3	30.1	30.5	30.8
	3H	29.7	30.2	30.0	30.5	30.9	29.7	30.2	30.0	30.5	30.9
	4H	29.6	30.1	30.0	30.5	31.0	29.6	30.1	30.0	30.5	31.0
	6H	29.7	30.2	30.2	30.5	30.9	29.7	30.2	30.2	30.5	30.9
	8H	29.8	30.2	30.3	30.6	30.9	29.8	30.2	30.3	30.6	30.9
	12H	30.0	30.3	30.5	30.7	31.2	30.0	30.3	30.5	30.7	31.2
8H	4H	29.5	30.0	30.0	30.3	30.7	29.5	30.0	30.0	30.3	30.7
	6H	29.7	30.0	30.2	30.5	31.0	29.7	30.0	30.2	30.5	31.0
	8H	29.9	30.2	30.4	30.7	31.3	29.9	30.2	30.4	30.7	31.3
	12H	30.3	30.5	30.9	31.0	31.6	30.3	30.5	30.9	31.0	31.6
12H	4H	29.5	29.8	30.0	30.2	30.7	29.5	29.8	30.0	30.2	30.7
	6H	29.7	30.0	30.2	30.5	31.1	29.7	30.0	30.2	30.5	31.1
	8H	30.0	30.2	30.6	30.7	31.3	30.0	30.2	30.6	30.7	31.3
Corrected glare indices referring to 707 lm total luminous flux											