

Light efficiency:



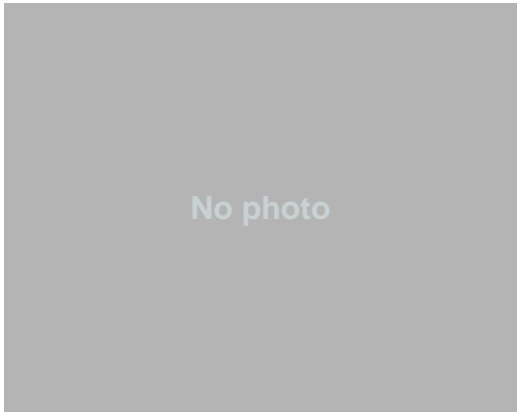
Output: 694 lm

Light quality:

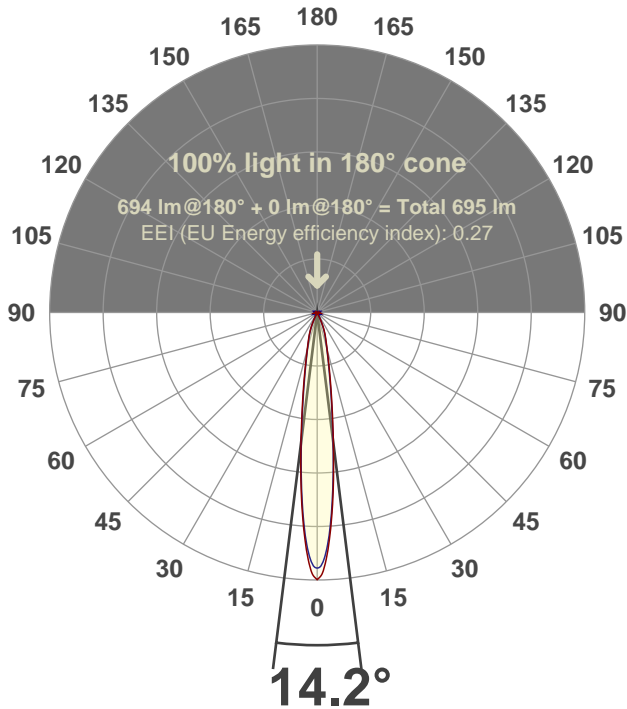


Peak: 6220 cd

Power: 15.0 W



Beam angle



Test number:

CR4D-S-DR-A14-30k-15 (GR-AD-SP-SQ)

Luminaire Model:

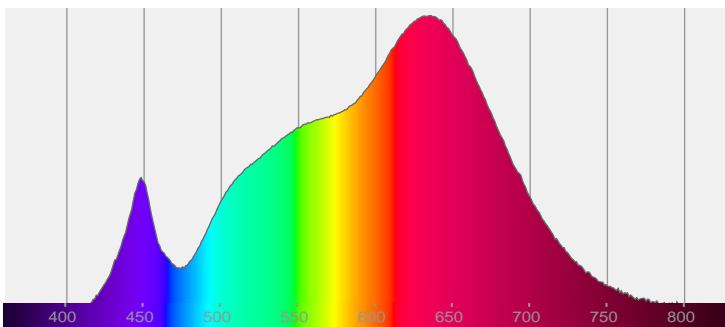
Core 4" Square Deep Regress A14 30 to 19k 15°

Date and time:

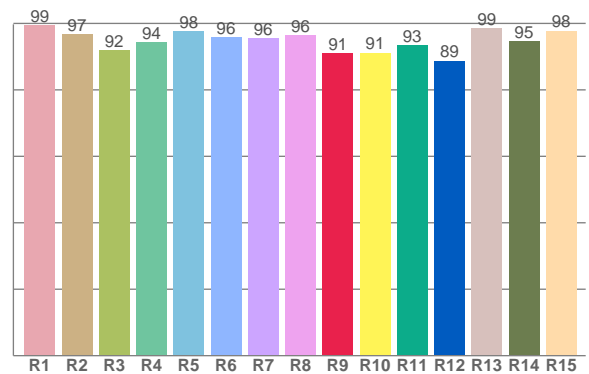
5/4/2017 4:09:58 PM

LUM: 694

Spectra



CRI: 96.0 (R1-R8)

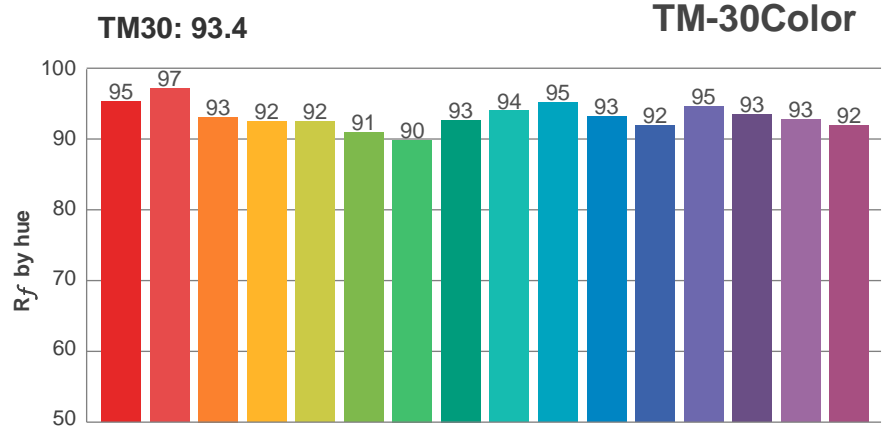


Color parameters

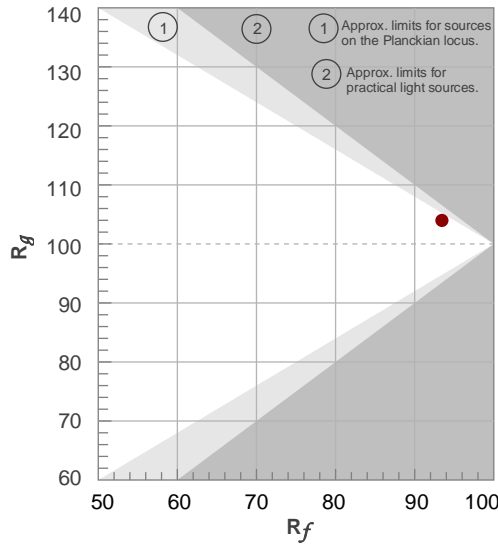
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.0	91.1	93.4	104.0	93.3	0.437	0.404	0.251	0.348	-0.0001

R_f 93.4
Fidelity index R_f

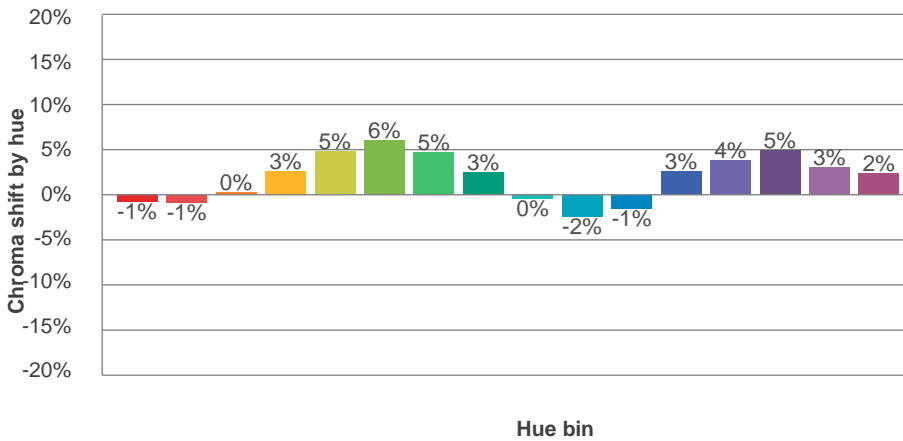
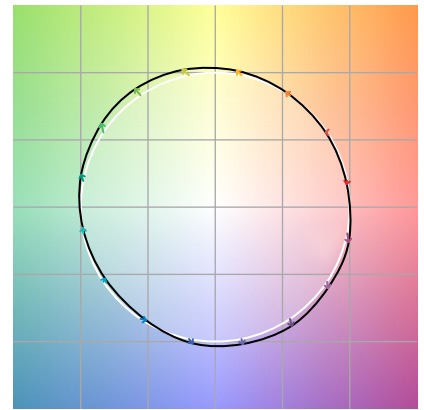
R_g 104.0
Gammut index R_g



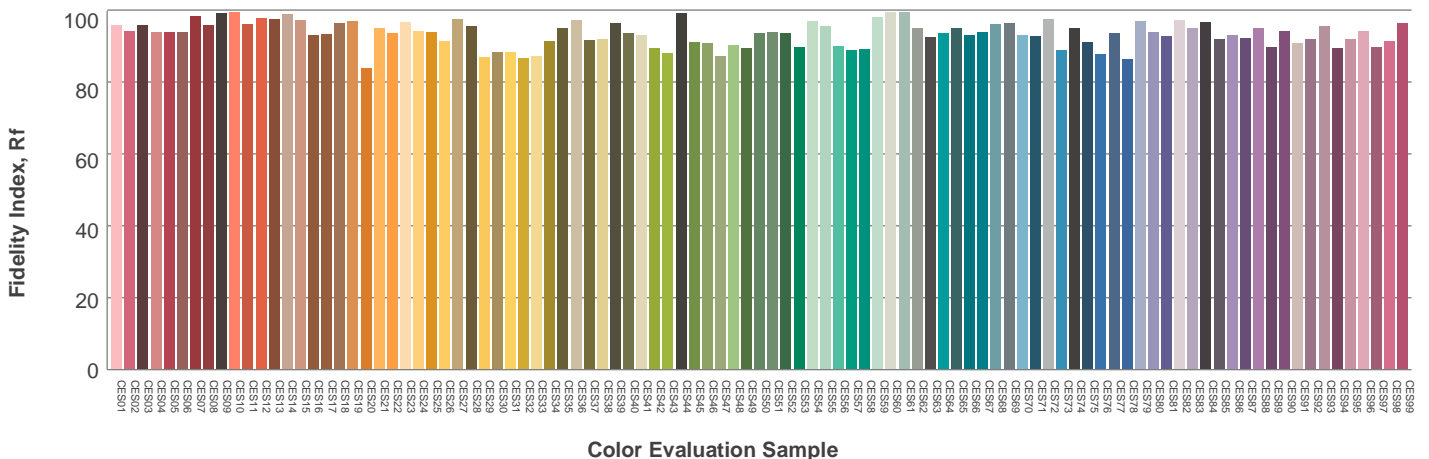
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	95	-1%	-2%
2	97	-1%	1%
3	93	0%	4%
4	92	3%	4%
5	92	5%	4%
6	91	6%	1%
7	90	5%	-4%
8	93	3%	-4%
9	94	0%	-4%
10	95	-2%	-1%
11	93	-1%	4%
12	92	3%	3%
13	95	4%	0%
14	93	5%	-2%
15	93	3%	-4%
16	92	2%	-6%



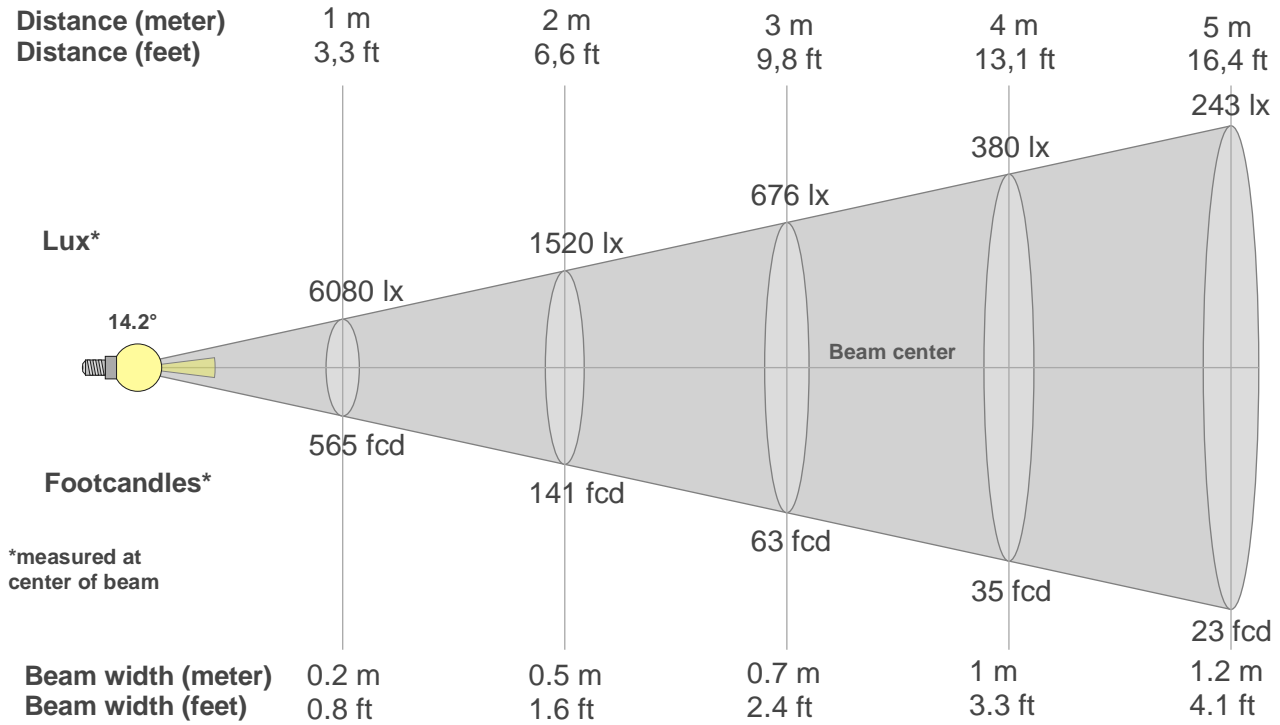
Color vector graphics



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
6080lx	1520lx	676lx	380lx	243lx	169lx	124lx	95lx	75lx	61lx	50lx	42lx	36lx	31lx	27lx	24lx	21lx	19lx	17lx	15lx
564.8fc	141.2fc	62.8fcd	35.3fcd	22.6fcd	15.7fcd	11.5fcd	8.8fcd	7fcd	5.6fcd	4.7fcd	3.9fcd	3.3fcd	2.9fcd	2.5fcd	2.2fcd	2fcd	1.7fcd	1.6fcd	1.4fcd

Intensities in 0° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6080	6105	5793	5342	4818	4255	3671	3114	2630	2228	1891	1613	1381	1189	1033	908	811	727	658	595
100%	100%	95%	88%	79%	70%	60%	51%	43%	37%	31%	27%	23%	20%	17%	15%	13%	12%	11%	10%

Intensities in 90° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6080	5865	5617	5222	4721	4161	3590	3045	2558	2150	1816	1541	1319	1140	993	873	775	693	623	562
100%	96%	92%	86%	78%	68%	59%	50%	42%	35%	30%	25%	22%	19%	16%	14%	13%	11%	10%	9%

Intensities in 180° c-plane

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6080	6105	5793	5342	4818	4255	3671	3114	2630	2228	1891	1613	1381	1189	1033	908	811	727	658	595
100%	100%	95%	88%	79%	70%	60%	51%	43%	37%	31%	27%	23%	20%	17%	15%	13%	12%	11%	10%

Intensities in 270° c-plane

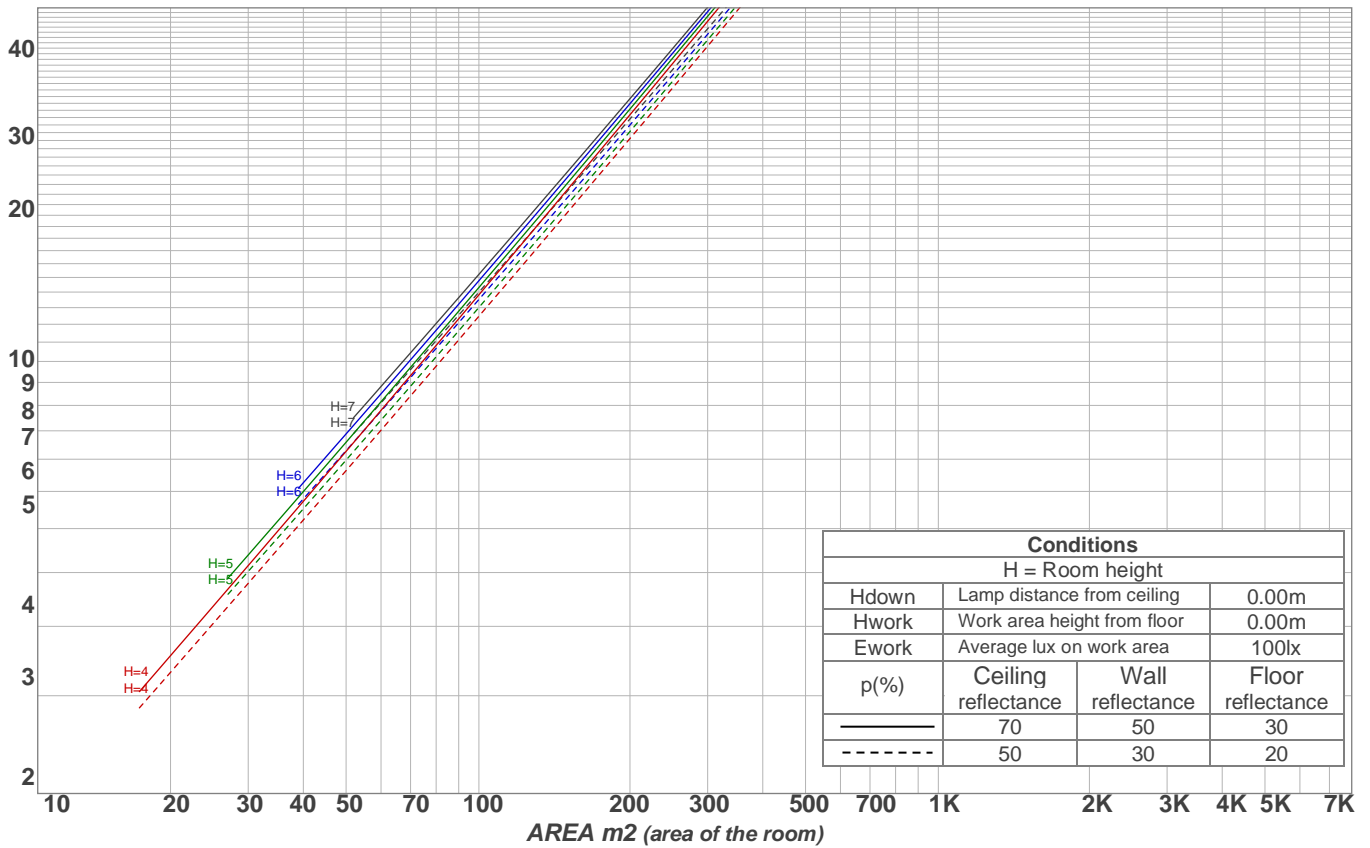
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6080	5865	5617	5222	4721	4161	3590	3045	2558	2150	1816	1541	1319	1140	993	873	775	693	623	562
100%	96%	92%	86%	78%	68%	59%	50%	42%	35%	30%	25%	22%	19%	16%	14%	13%	11%	10%	9%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
14.2°	37°	51.7°	99.2%	98.6%

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	
1	115	113	111	110	113	111	109	108	107	106	105	103	102	102	100	99	99	97	97	97	
2	112	108	105	103	110	107	104	102	103	101	100	101	99	98	98	97	96	94	94	94	
3	108	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92	92	92	
4	105	100	97	94	104	99	96	93	97	95	92	96	93	91	94	92	90	89	89	89	
5	103	97	93	91	101	96	93	90	95	92	90	93	91	89	92	90	88	87	87	87	
6	100	94	91	88	99	94	90	88	92	89	87	91	89	87	90	88	86	85	85	85	
7	98	92	88	85	97	91	88	85	90	87	85	89	86	84	88	86	84	83	83	83	
8	96	90	86	83	95	89	86	83	88	85	83	87	85	82	87	84	82	81	81	81	
9	93	87	84	81	93	87	84	81	86	83	81	86	83	81	85	82	80	80	80	80	
10	91	85	82	79	91	85	82	79	84	81	79	84	81	79	83	81	79	78	78	78	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
319 lm	261 lm	94.9 lm	8.33 lm	2.57 lm	3.02 lm	2.59 lm	1.70 lm	1.42 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	14.6	15.0	14.7	15.2	15.4	14.4	14.7	14.4	14.9	15.1
	3H	15.9	16.5	16.3	16.6	16.8	15.7	16.2	16.1	16.4	16.6
	4H	16.6	17.2	17.0	17.4	17.6	16.4	17.0	16.8	17.2	17.4
	6H	17.6	18.1	17.9	18.4	18.7	17.5	18.0	17.8	18.3	18.6
	8H	18.3	18.7	18.6	19.1	19.4	18.2	18.6	18.5	18.9	19.3
	12H	19.2	19.6	19.5	19.9	20.4	19.0	19.4	19.3	19.7	20.1
4H	2H	15.1	15.6	15.5	15.9	16.1	14.9	15.4	15.3	15.7	15.9
	3H	16.8	17.2	17.2	17.6	18.0	16.6	17.0	17.0	17.4	17.8
	4H	17.6	18.0	18.0	18.4	18.9	17.5	17.8	17.9	18.3	18.8
	6H	18.8	19.2	19.3	19.5	19.9	18.7	19.2	19.2	19.5	19.8
	8H	19.6	20.0	20.1	20.3	20.7	19.5	19.9	20.0	20.2	20.6
	12H	20.6	20.9	21.1	21.3	21.8	20.4	20.7	20.9	21.1	21.6
8H	4H	18.0	18.4	18.5	18.8	19.1	17.9	18.3	18.4	18.6	19.0
	6H	19.5	19.8	20.0	20.2	20.7	19.5	19.7	20.0	20.2	20.7
	8H	20.6	20.8	21.1	21.3	21.9	20.5	20.7	21.0	21.2	21.8
	12H	21.9	22.1	22.5	22.6	23.2	21.7	21.9	22.3	22.4	23.0
12H	4H	18.1	18.4	18.6	18.8	19.3	18.0	18.3	18.5	18.7	19.1
	6H	19.8	20.0	20.3	20.5	21.1	19.8	20.0	20.3	20.5	21.1
	8H	20.9	21.1	21.5	21.6	22.2	20.8	21.0	21.4	21.5	22.1
Corrected glare indices referring to 694 lm total luminous flux											