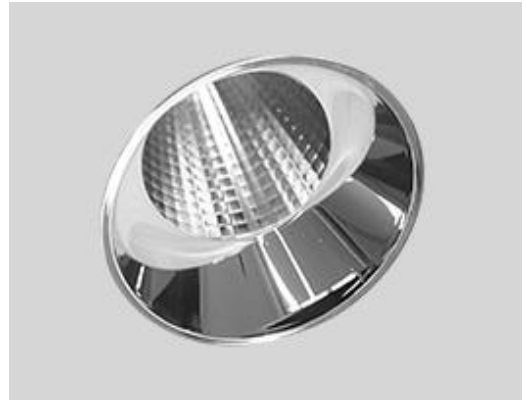


Light efficiency:



Output: 836 lm



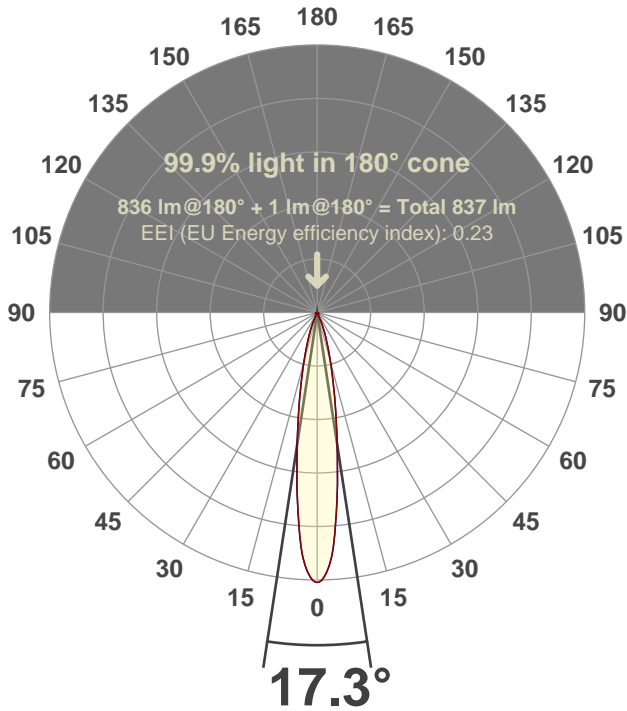
Light quality:



Peak: 6297 cd

Power: 15.3 W

Beam angle



Test number:

SCW3D-R-A14-AD3019-20°-Rev1

Luminaire Model:

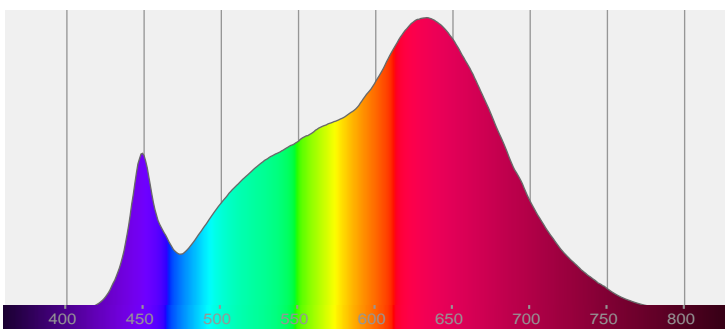
Scope Wonder 3" Round Downlight-A14-AD3019-20°

Date and time:

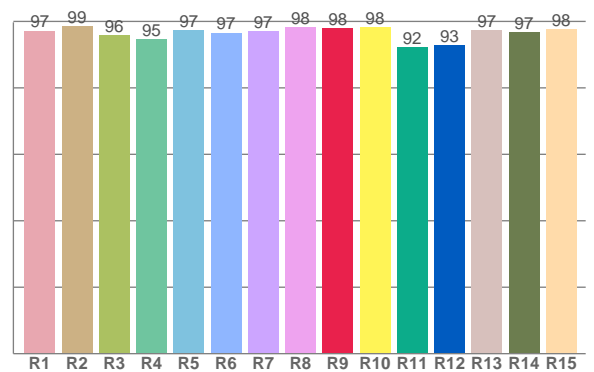
5/27/2021 7:44:19 PM

LUM: 836

Spectra



CRI: 96.9 (R1-R8)

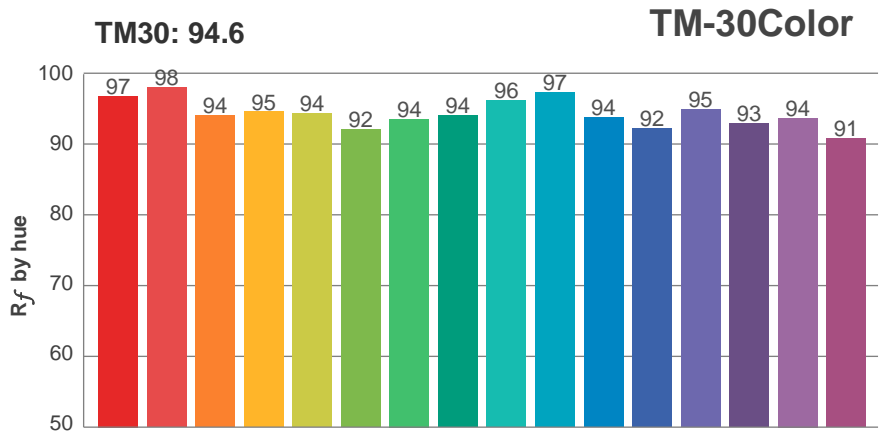


Color parameters

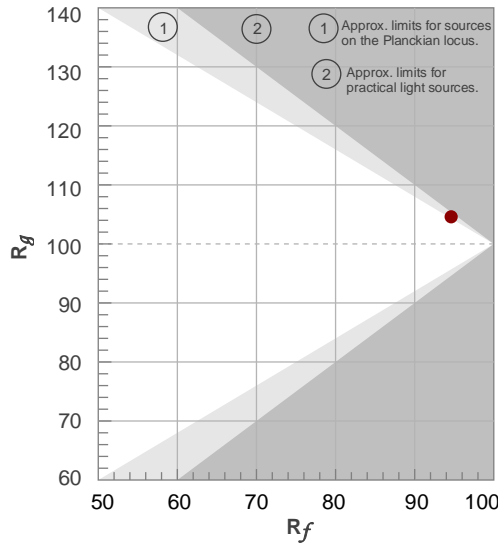
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	96.9	97.8	94.6	104.6	94.2	0.431	0.392	0.252	0.344	-0.0040

R_f 94.6
Fidelity index R_f

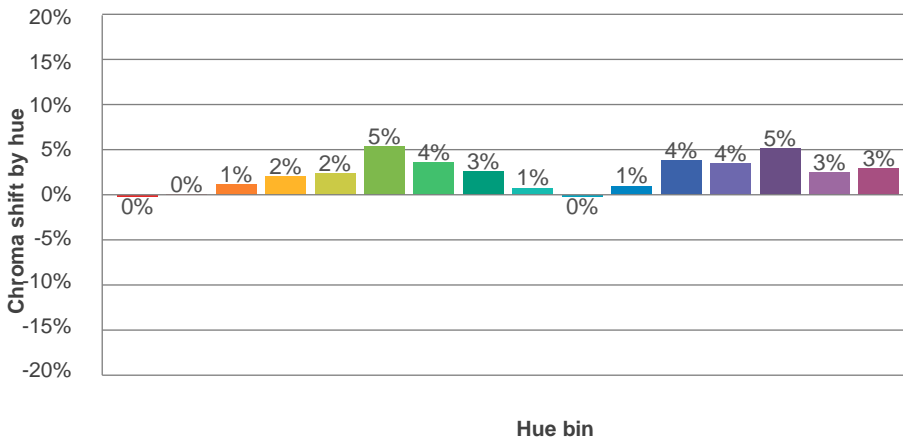
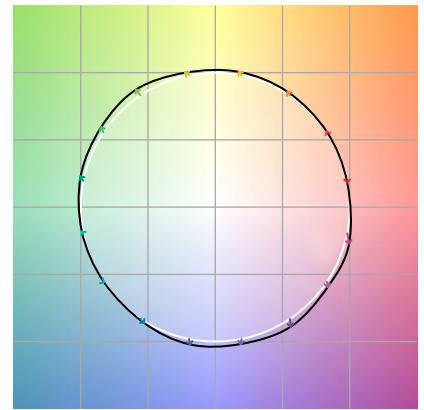
R_g 104.6
Gammut index R_g



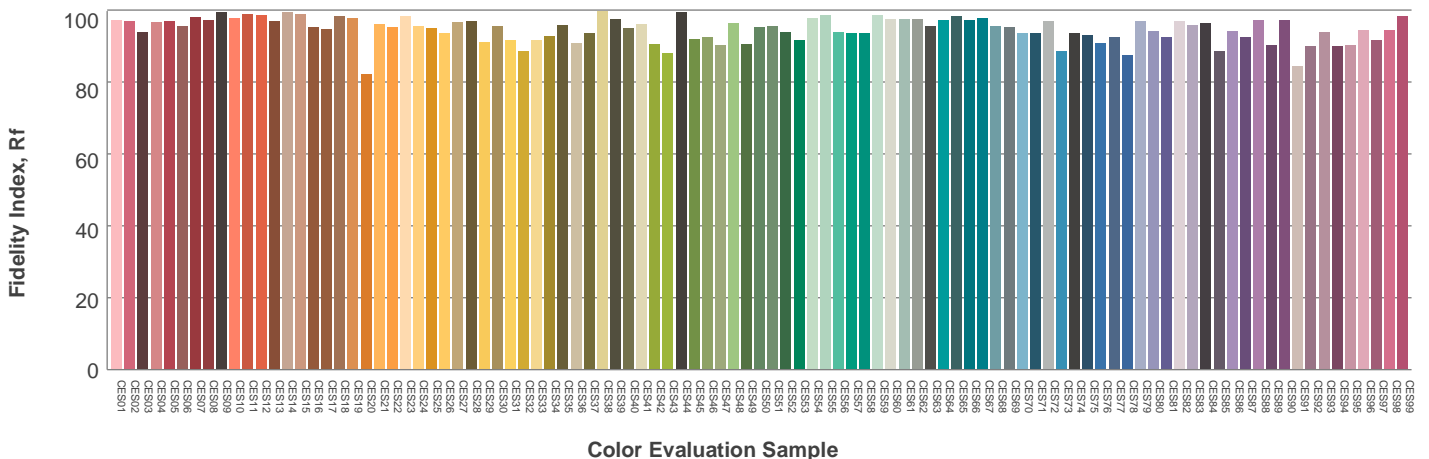
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	97	0%	-1%
2	98	0%	1%
3	94	1%	3%
4	95	2%	2%
5	94	2%	2%
6	92	5%	1%
7	94	4%	-2%
8	94	3%	-3%
9	96	1%	-2%
10	97	0%	0%
11	94	1%	4%
12	92	4%	2%
13	95	4%	-1%
14	93	5%	-3%
15	94	3%	-3%
16	91	3%	-7%



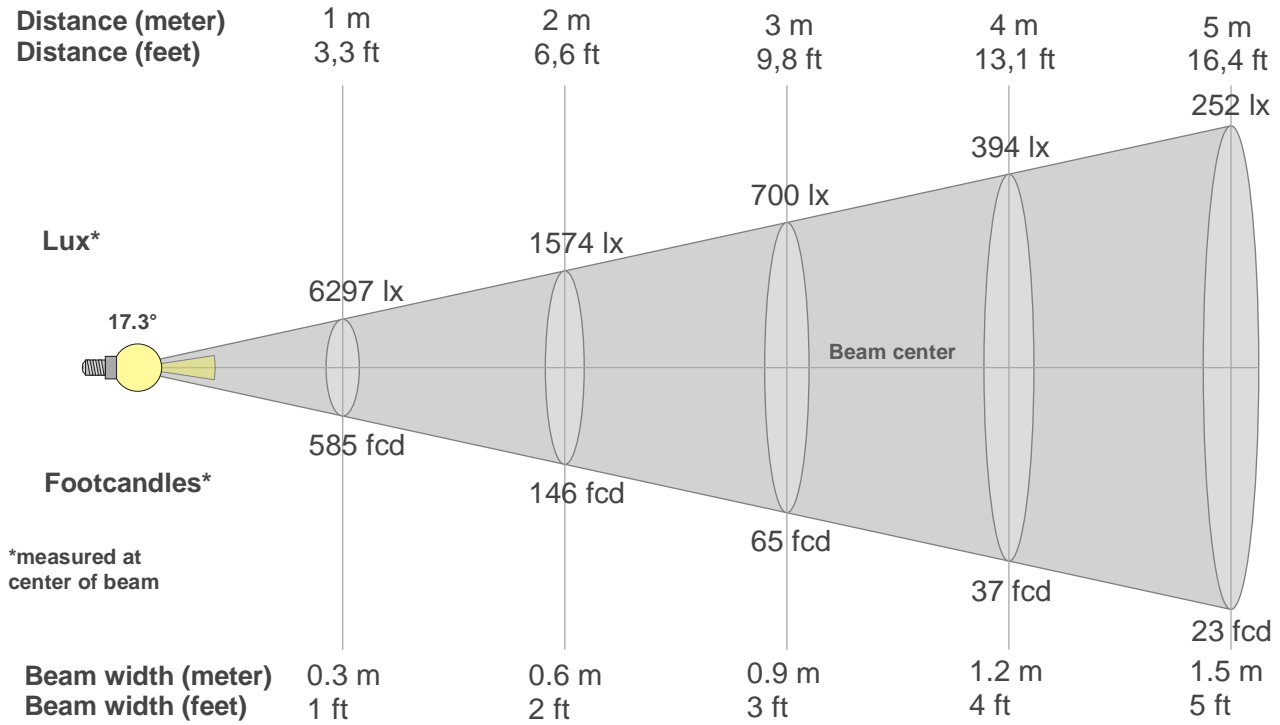
Color vector graphics



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
6297lx	1574lx	700lx	394lx	252lx	175lx	129lx	98lx	78lx	63lx	52lx	44lx	37lx	32lx	28lx	25lx	22lx	19lx	17lx	16lx
585fcd	146.3fcd	65fcd	36.6fcd	23.4fcd	16.3fcd	11.9fcd	9.1fcd	7.2fcd	5.9fcd	4.8fcd	4.1fcd	3.5fcd	3fcd	2.6fcd	2.3fcd	2fcd	1.8fcd	1.6fcd	1.5fcd

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°
6297	6297	6090	5841	5497	4983	4469	3965	3461	3011	2635	2258	1972	1690	1447	1248	1048	908	767	648
100%	100%	97%	93%	87%	79%	71%	63%	55%	48%	42%	36%	31%	27%	23%	20%	17%	14%	12%	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°
6297	6297	6090	5841	5497	4983	4469	3965	3461	3011	2635	2258	1972	1690	1447	1248	1048	908	767	648
100%	100%	97%	93%	87%	79%	71%	63%	55%	48%	42%	36%	31%	27%	23%	20%	17%	14%	12%	10%

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°
6297	6297	6090	5841	5497	4983	4469	3965	3461	3011	2635	2258	1972	1690	1447	1248	1048	908	767	648
100%	100%	97%	93%	87%	79%	71%	63%	55%	48%	42%	36%	31%	27%	23%	20%	17%	14%	12%	10%

Intensities in 270° c-plane

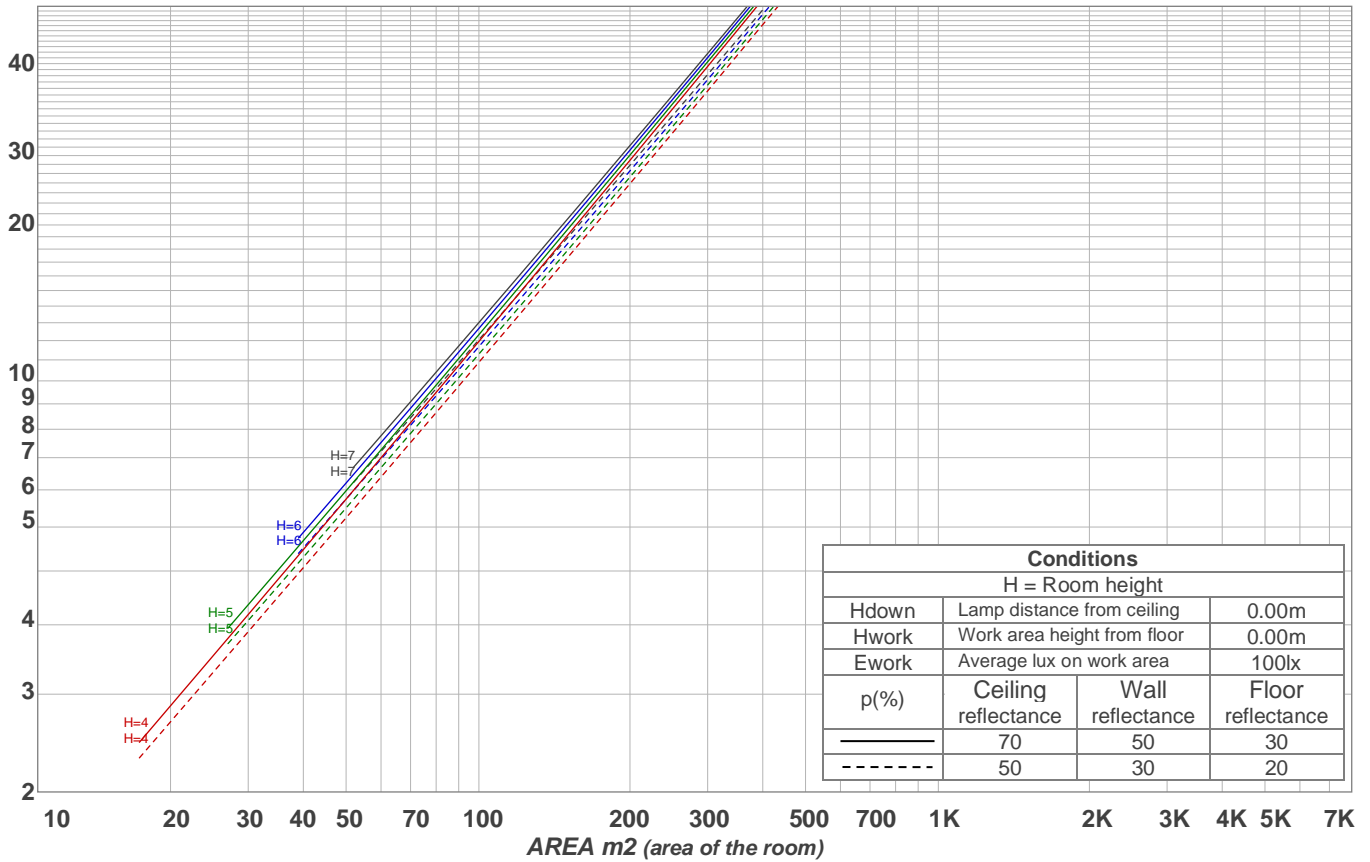
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
6297	6297	6090	5841	5497	4983	4469	3965	3461	3011	2635	2258	1972	1690	1447	1248	1048	908	767	648
100%	100%	97%	93%	87%	79%	71%	63%	55%	48%	42%	36%	31%	27%	23%	20%	17%	14%	12%	10%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
17.3°	38.4°	49.6°	99.5%	99.2%

LAMPS (number of lamps)

50

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
396 lm	350 lm	78.7 lm	4.87 lm	2.21 lm	1.42 lm	1.16 lm	1.15 lm	1.23 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	9.9	10.2	9.9	10.4	10.5	9.9	10.2	9.9	10.4	10.5
	3H	11.2	11.7	11.5	11.9	12.0	11.2	11.7	11.5	11.9	12.0
	4H	12.4	12.9	12.7	13.1	13.3	12.4	12.9	12.7	13.1	13.3
	6H	14.0	14.4	14.3	14.7	15.0	14.0	14.4	14.3	14.7	15.0
	8H	15.0	15.4	15.3	15.7	16.1	15.0	15.4	15.3	15.7	16.1
	12H	16.2	16.6	16.6	17.0	17.4	16.2	16.6	16.6	17.0	17.4
4H	2H	10.1	10.7	10.5	10.9	11.1	10.1	10.7	10.5	10.9	11.1
	3H	12.1	12.4	12.4	12.8	13.2	12.1	12.4	12.4	12.8	13.2
	4H	13.5	13.8	13.9	14.3	14.8	13.5	13.8	13.9	14.3	14.8
	6H	15.3	15.8	15.8	16.1	16.4	15.3	15.8	15.8	16.1	16.4
	8H	16.5	16.9	17.0	17.2	17.6	16.5	16.9	17.0	17.2	17.6
	12H	17.9	18.2	18.4	18.6	19.0	17.9	18.2	18.4	18.6	19.0
8H	4H	14.1	14.5	14.6	14.9	15.2	14.1	14.5	14.6	14.9	15.2
	6H	16.3	16.6	16.8	17.0	17.5	16.3	16.6	16.8	17.0	17.5
	8H	17.7	17.9	18.3	18.4	19.1	17.7	17.9	18.3	18.4	19.1
	12H	19.4	19.5	20.0	20.0	20.6	19.4	19.5	20.0	20.0	20.6
12H	4H	14.3	14.6	14.8	15.0	15.4	14.3	14.6	14.8	15.0	15.4
	6H	16.7	16.9	17.2	17.4	18.0	16.7	16.9	17.2	17.4	18.0
	8H	18.2	18.3	18.8	18.8	19.4	18.2	18.3	18.8	18.8	19.4
Corrected glare indices referring to 836 lm total luminous flux											