

Light efficiency:

77 Lumen/Watt

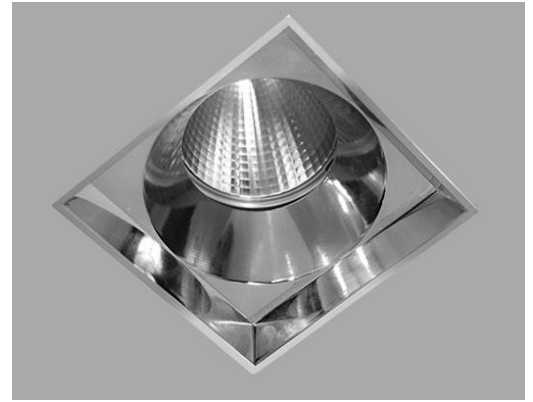
Output: 1078 lm

Light quality:

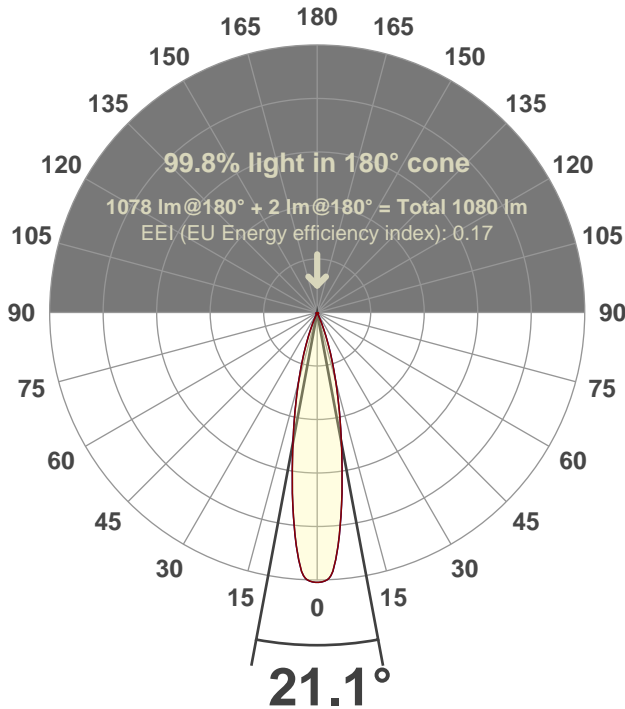
CRI: 93.0

Peak: 6599 cd

Power: 14.0 W



Beam angle



Test number:

SCW3D-S-C14-30k-20°-Rev1

Luminaire Model:

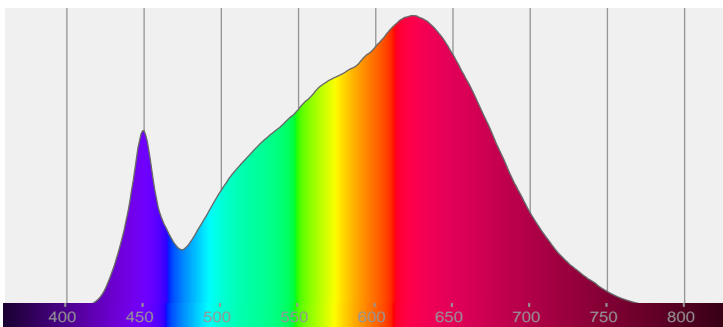
Scope Wonder 3" Square Downlight-C14-30k-20°

Date and time:

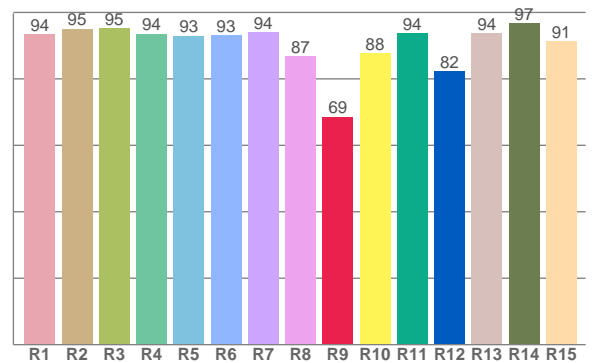
5/27/2021 5:14:11 PM

LUM: 1078

Spectra



CRI: 93.0 (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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
	93.0	68.6	91.8	101.6	91.0	0.424	0.397	0.245	0.344	-0.0010

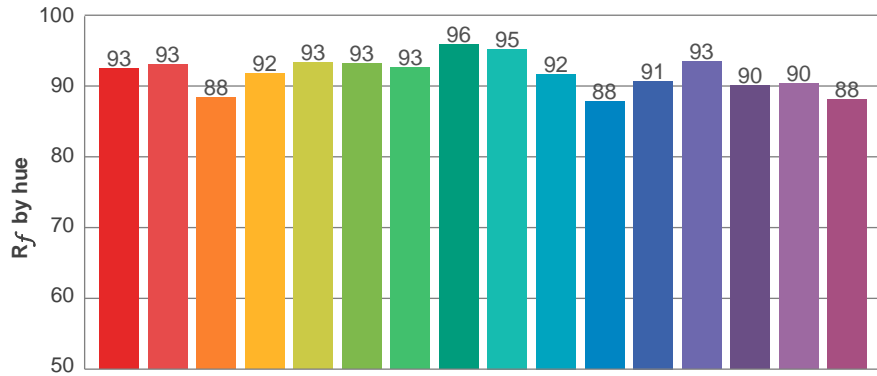
**$R_f$  91.8**  
Fidelity index  $R_f$

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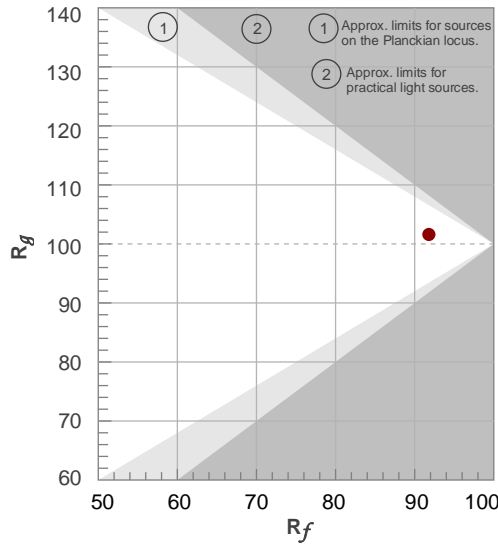
**$R_g$  101.6**  
Gammut index  $R_g$

TM30: 91.8

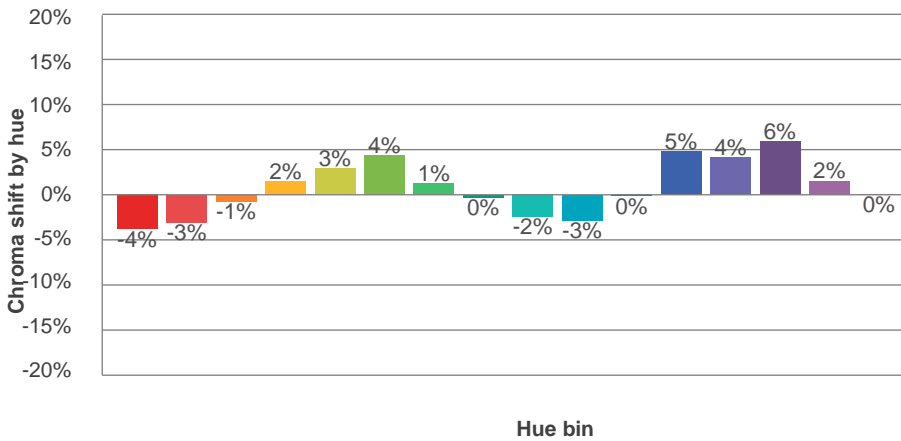
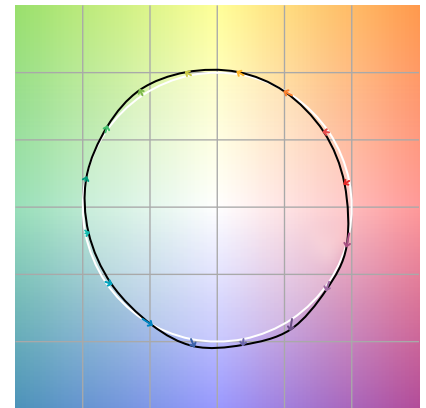
TM-30Color



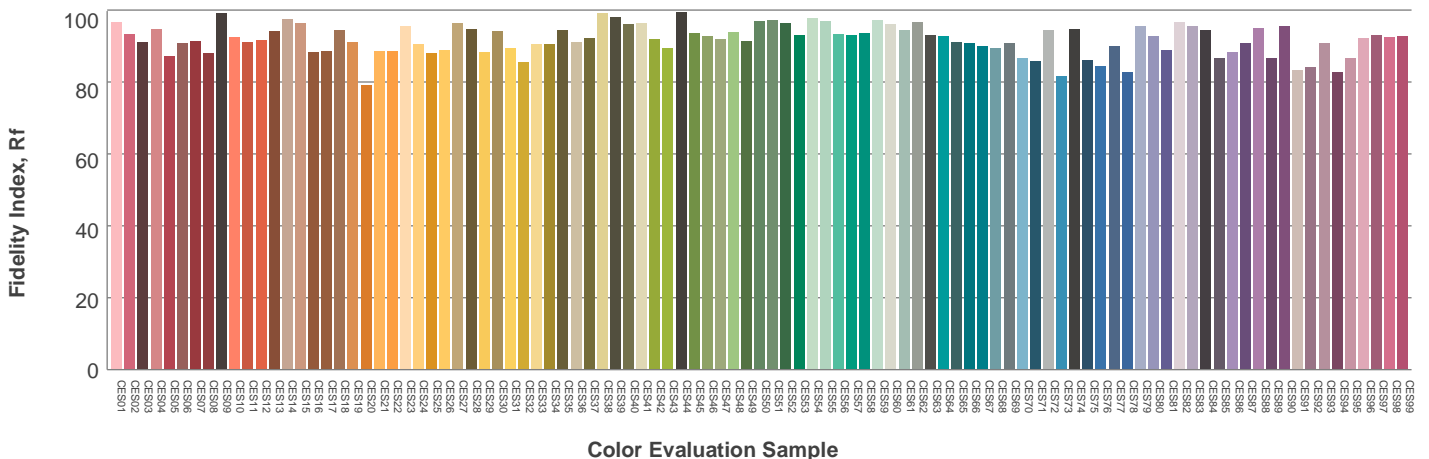
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	93	-3%	3%
3	88	-1%	6%
4	92	2%	5%
5	93	3%	3%
6	93	4%	-1%
7	93	1%	-4%
8	96	0%	-3%
9	95	-2%	0%
10	92	-3%	4%
11	88	0%	8%
12	91	5%	3%
13	93	4%	-1%
14	90	6%	-5%
15	90	2%	-6%
16	88	0%	-10%



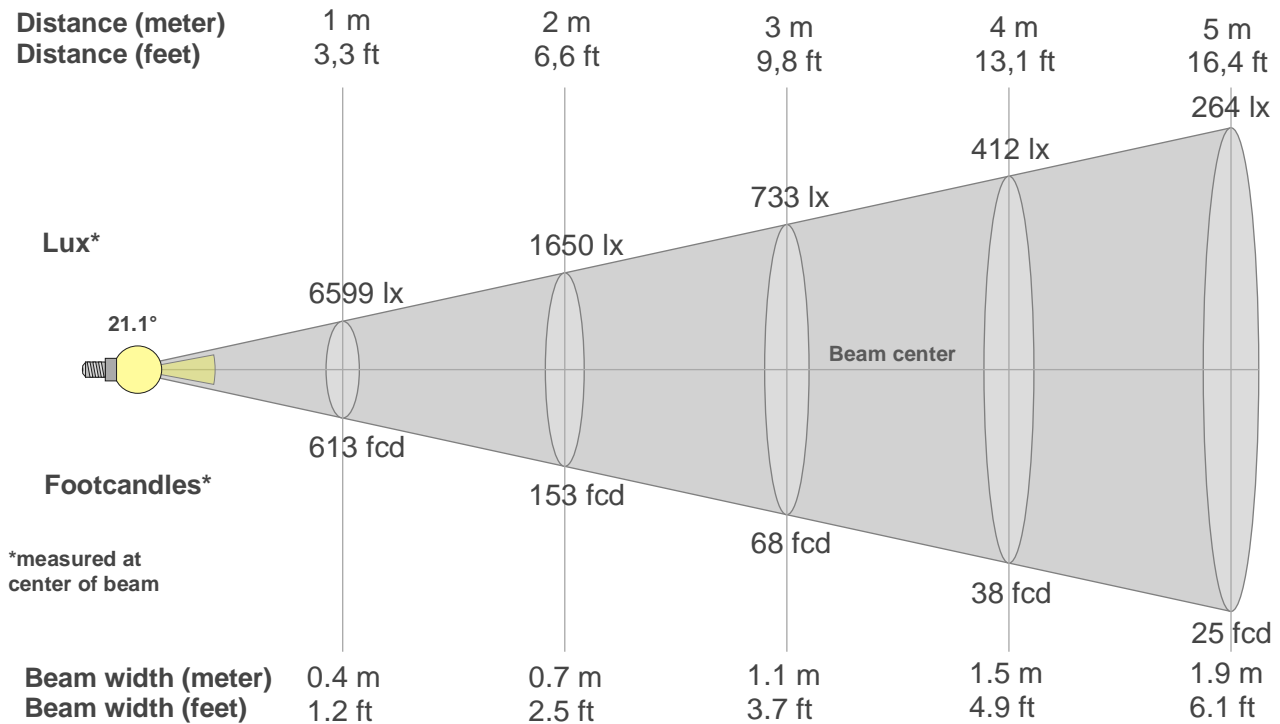
Color vector graphics



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
6599lx	1650lx	733lx	412lx	264lx	183lx	135lx	103lx	81lx	66lx	55lx	46lx	39lx	34lx	29lx	26lx	23lx	20lx	18lx	16lx
613fcd	153.3fcd	68.1fcd	38.3fcd	24.5fcd	17fcd	12.5fcd	9.6fcd	7.6fcd	6.1fcd	5.1fcd	4.3fcd	3.6fcd	3.1fcd	2.7fcd	2.4fcd	2.1fcd	1.9fcd	1.7fcd	1.5fcd

#### 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°
6599	6599	6149	5372	4438	3521	2744	2102	1555	1096	714	403	188	78	36	24	19	15	12	10
100%	100%	93%	81%	67%	53%	42%	32%	24%	17%	11%	6%	3%	1%	1%	0%	0%	0%	0%	0%

#### 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°
6599	6599	6149	5372	4438	3521	2744	2102	1555	1096	714	403	188	78	36	24	19	15	12	10
100%	100%	93%	81%	67%	53%	42%	32%	24%	17%	11%	6%	3%	1%	1%	0%	0%	0%	0%	0%

#### 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°
6599	6599	6149	5372	4438	3521	2744	2102	1555	1096	714	403	188	78	36	24	19	15	12	10
100%	100%	93%	81%	67%	53%	42%	32%	24%	17%	11%	6%	3%	1%	1%	0%	0%	0%	0%	0%

#### Intensities in 270° c-plane

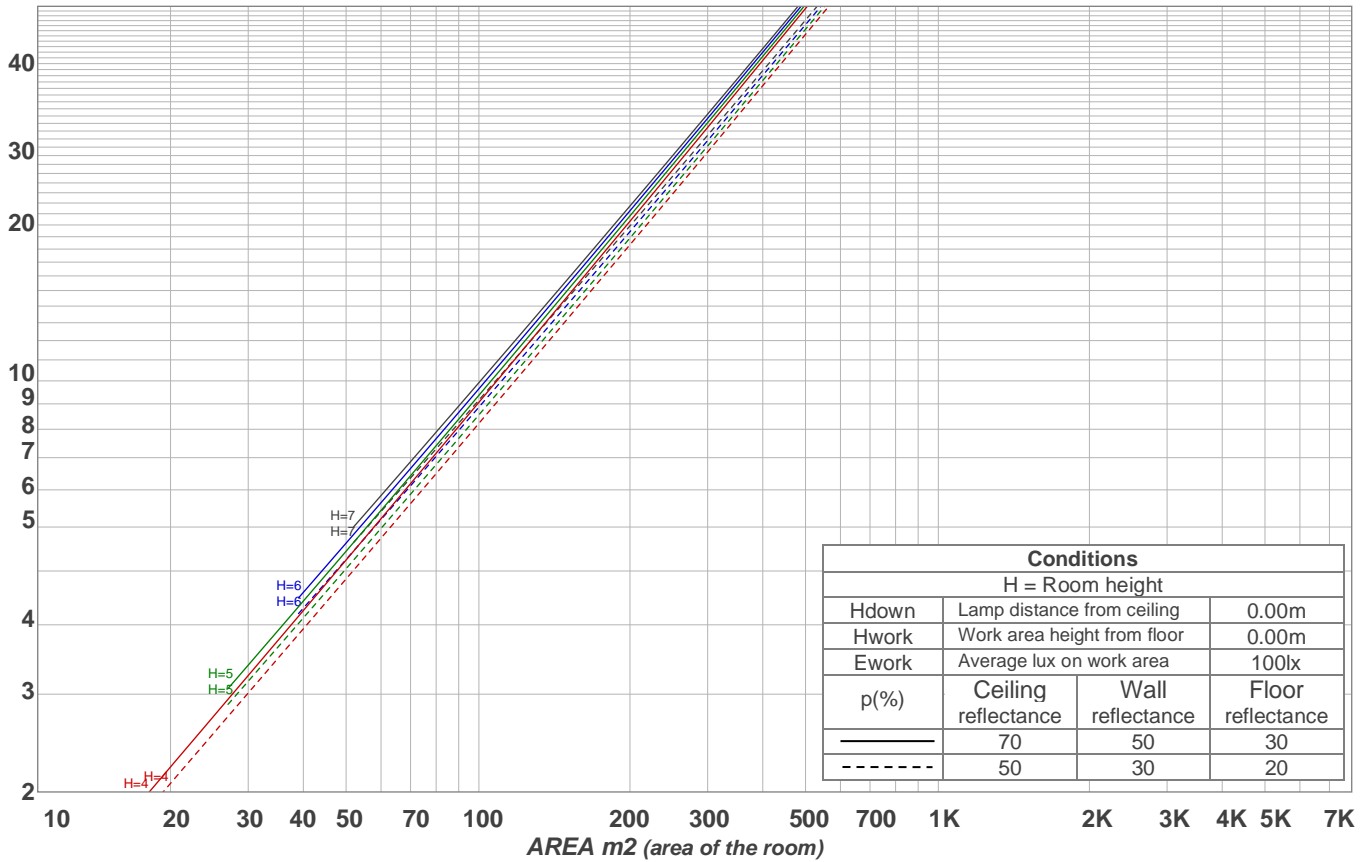
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
6599	6599	6149	5372	4438	3521	2744	2102	1555	1096	714	403	188	78	36	24	19	15	12	10
100%	100%	93%	81%	67%	53%	42%	32%	24%	17%	11%	6%	3%	1%	1%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.1°	40.7°	48.6°	99.6%	99.3%

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

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
474 lm	500 lm	86.6 lm	8.74 lm	3.79 lm	1.81 lm	0.908 lm	0.853 lm	0.913 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

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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	11.7	12.0	11.8	12.2	12.4	11.7	12.0	11.8	12.2	12.4
	3H	11.9	12.4	12.2	12.6	12.7	11.9	12.4	12.2	12.6	12.7
	4H	12.2	12.8	12.6	13.0	13.2	12.2	12.8	12.6	13.0	13.2
	6H	13.2	13.6	13.5	13.9	14.3	13.2	13.6	13.5	13.9	14.3
	8H	14.0	14.3	14.3	14.7	15.0	14.0	14.3	14.3	14.7	15.0
	12H	14.8	15.2	15.1	15.5	15.9	14.8	15.2	15.1	15.5	15.9
4H	2H	11.6	12.1	11.9	12.3	12.5	11.6	12.1	11.9	12.3	12.5
	3H	12.2	12.5	12.5	12.9	13.3	12.2	12.5	12.5	12.9	13.3
	4H	12.7	13.0	13.1	13.5	14.0	12.7	13.0	13.1	13.5	14.0
	6H	14.0	14.4	14.5	14.8	15.1	14.0	14.4	14.5	14.8	15.1
	8H	15.0	15.4	15.5	15.7	16.1	15.0	15.4	15.5	15.7	16.1
	12H	16.0	16.3	16.5	16.7	17.2	16.0	16.3	16.5	16.7	17.2
8H	4H	13.0	13.4	13.5	13.7	14.1	13.0	13.4	13.5	13.7	14.1
	6H	14.8	15.0	15.3	15.5	16.0	14.8	15.0	15.3	15.5	16.0
	8H	16.0	16.2	16.5	16.7	17.3	16.0	16.2	16.5	16.7	17.3
	12H	17.3	17.5	17.9	18.0	18.6	17.3	17.5	17.9	18.0	18.6
12H	4H	13.1	13.4	13.6	13.8	14.3	13.1	13.4	13.6	13.8	14.3
	6H	15.1	15.3	15.6	15.8	16.4	15.1	15.3	15.6	15.8	16.4
	8H	16.4	16.6	17.0	17.1	17.7	16.4	16.6	17.0	17.1	17.7
Corrected glare indices referring to 1078 lm total luminous flux											