

Light efficiency:



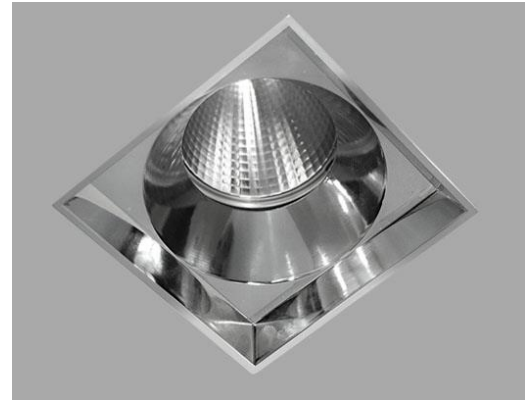
Output: 1075 lm

Light quality:

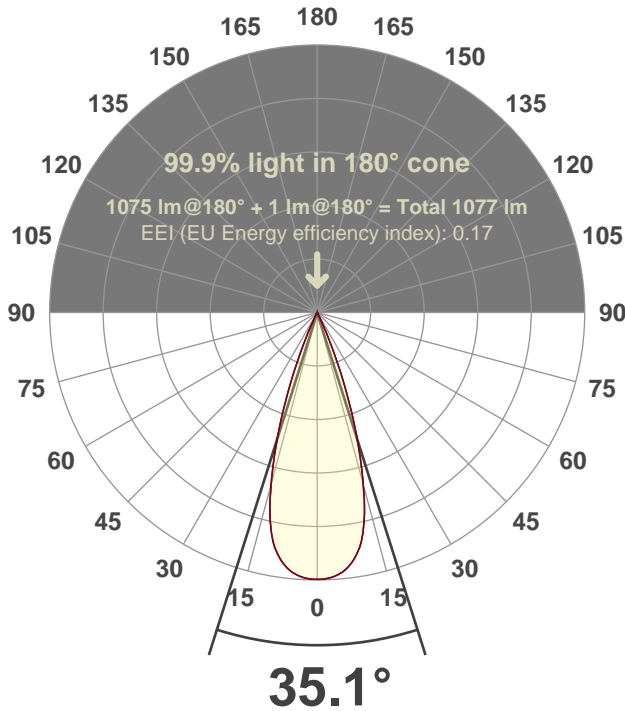


Peak: 3375 cd

Power: 14.0 W



Beam angle



Test number:

SCW3D-S-C14-30k-36°-Rev1

Luminaire Model:

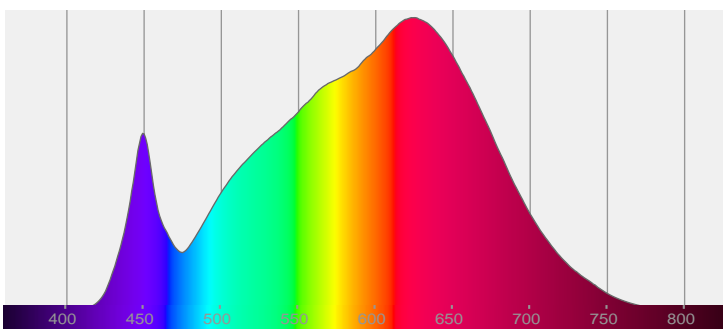
Scope Wonder 3" Square Downlight-C14-30k-36°

Date and time:

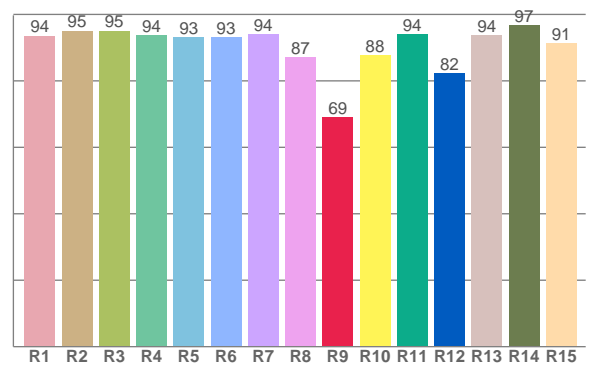
5/27/2021 5:27:28 PM

LUM: 1075

Spectra



CRI: 93.1 (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
	93.1	69.0	91.8	101.7	91.0	0.425	0.397	0.246	0.345	-0.0010

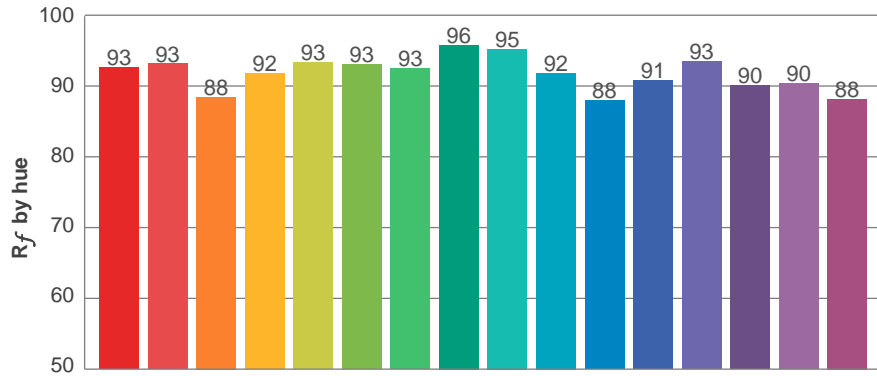
**$R_f$  91.8**  
Fidelity index  $R_f$

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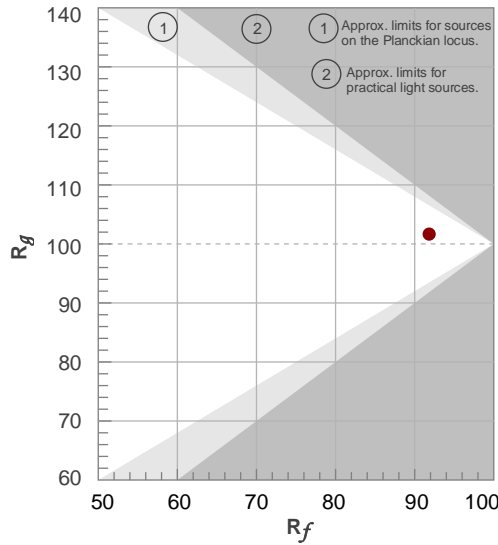
**$R_g$  101.7**  
Gammut index  $R_g$

TM30: 91.8

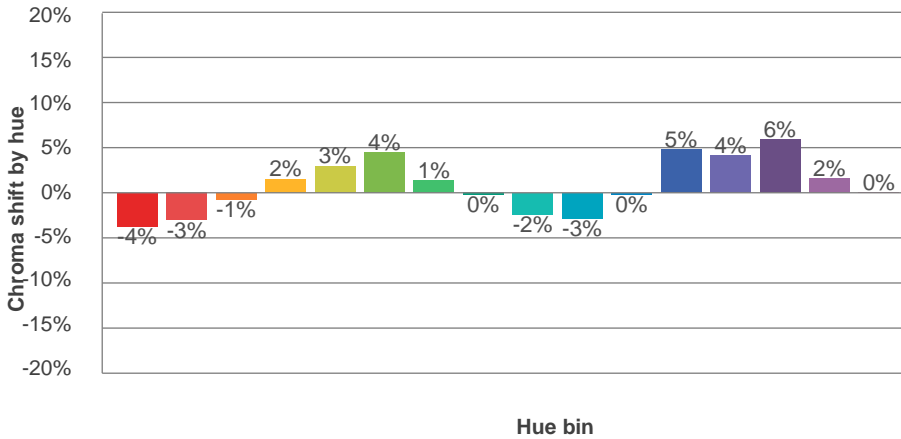
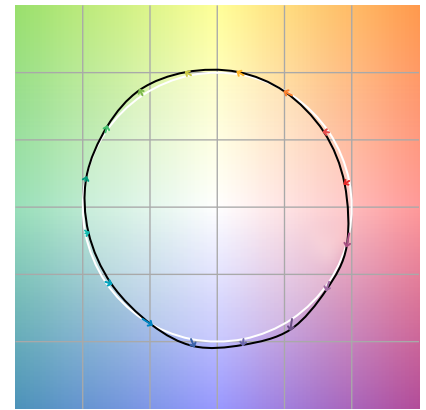
TM-30Color



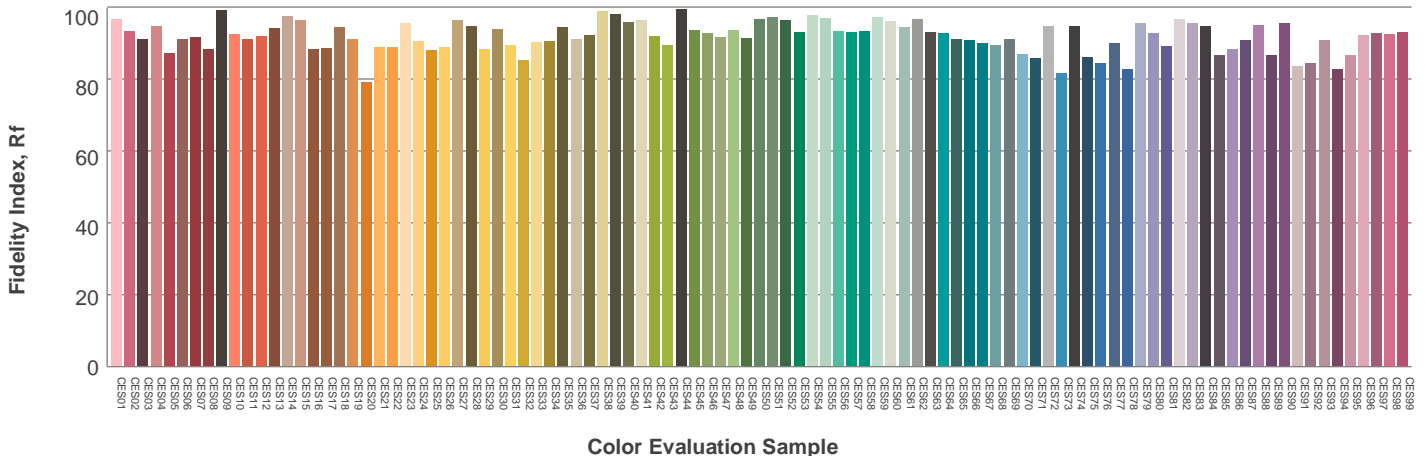
Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	93	-4%	-1%
2	93	-3%	3%
3	88	-1%	6%
4	92	2%	5%
5	93	3%	3%
6	93	4%	-1%
7	93	1%	-4%
8	96	0%	-3%
9	95	-2%	0%
10	92	-3%	4%
11	88	0%	8%
12	91	5%	3%
13	93	4%	-1%
14	90	6%	-5%
15	90	2%	-6%
16	88	0%	-10%



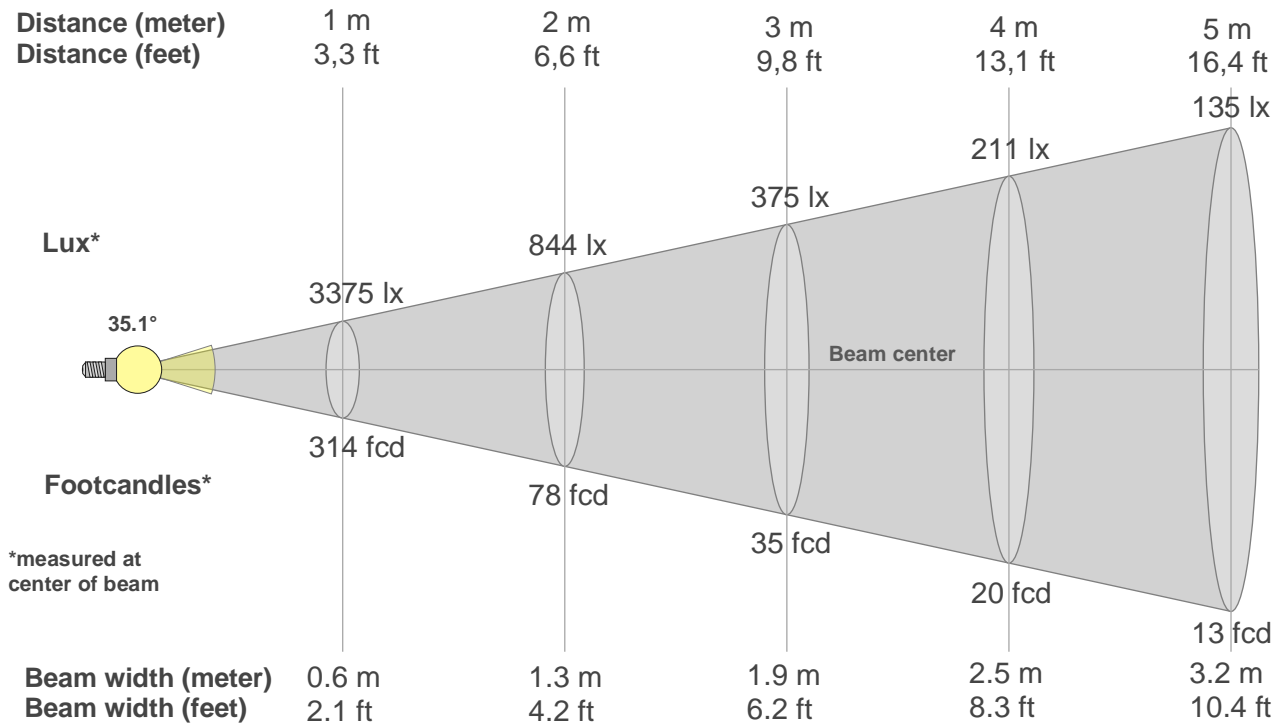
Color vector graphics



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
3375lx	844lx	375lx	211lx	135lx	94lx	69lx	53lx	42lx	34lx	28lx	23lx	20lx	17lx	15lx	13lx	12lx	10lx	9lx	8lx
313.5fcd	78.4fcd	34.8fcd	19.6fcd	12.5fcd	8.7fcd	6.4fcd	4.9fcd	3.9fcd	3.1fcd	2.6fcd	2.2fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	0.8fcd

#### 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°
3375	3366	3339	3283	3181	3028	2796	2467	2043	1589	1135	719	380	149	64	34	22	17	13	11
100%	100%	99%	97%	94%	90%	83%	73%	61%	47%	34%	21%	11%	4%	2%	1%	1%	1%	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°
3375	3366	3339	3283	3181	3028	2796	2467	2043	1589	1135	719	380	149	64	34	22	17	13	11
100%	100%	99%	97%	94%	90%	83%	73%	61%	47%	34%	21%	11%	4%	2%	1%	1%	1%	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°
3375	3366	3339	3283	3181	3028	2796	2467	2043	1589	1135	719	380	149	64	34	22	17	13	11
100%	100%	99%	97%	94%	90%	83%	73%	61%	47%	34%	21%	11%	4%	2%	1%	1%	1%	0%	0%

#### Intensities in 270° c-plane

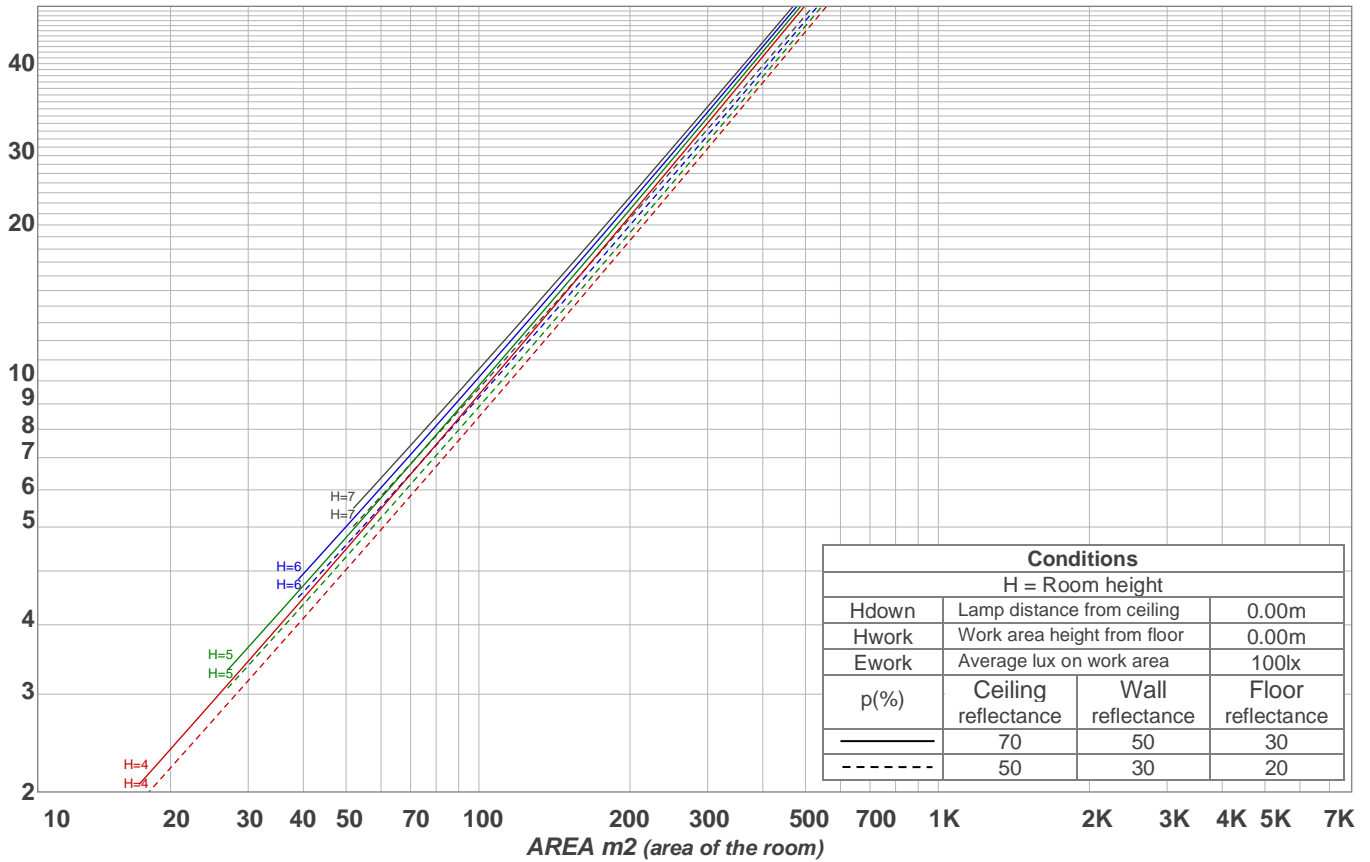
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3375	3366	3339	3283	3181	3028	2796	2467	2043	1589	1135	719	380	149	64	34	22	17	13	11
100%	100%	99%	97%	94%	90%	83%	73%	61%	47%	34%	21%	11%	4%	2%	1%	1%	1%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
35.1°	48.7°	55°	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	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	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	97	96	95	94
2	111	108	105	102	109	106	103	101	103	101	99	100	98	97	97	96	95	94	93	92	91
3	108	103	99	96	106	102	98	96	99	96	94	97	95	93	95	93	91	90	89	88	87
4	104	99	95	92	103	98	94	91	96	93	90	94	92	89	92	90	88	87	86	85	84
5	101	95	91	88	100	94	91	88	93	90	87	91	89	86	90	88	86	85	84	83	82
6	98	92	88	85	97	91	87	85	90	87	84	89	86	83	88	85	83	82	81	80	79
7	95	89	85	82	94	88	84	82	87	84	81	86	83	81	85	83	80	79	78	77	76
8	93	86	82	79	92	86	82	79	85	81	79	84	81	78	83	80	78	77	76	75	74
9	90	84	79	77	89	83	79	77	82	79	76	82	78	76	81	78	76	75	74	73	72
10	88	81	77	74	87	81	77	74	80	77	74	79	76	74	79	76	74	73	72	71	70

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
309 lm	595 lm	153 lm	9.98 lm	4.38 lm	1.80 lm	0.924 lm	0.952 lm	1.00 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	12.4	12.8	12.5	13.0	13.2	12.4	12.8	12.5	13.0	13.2
	3H	12.6	13.1	12.9	13.3	13.5	12.6	13.1	12.9	13.3	13.5
	4H	13.0	13.5	13.4	13.7	14.0	13.0	13.5	13.4	13.7	14.0
	6H	13.9	14.3	14.1	14.6	14.9	13.9	14.3	14.1	14.6	14.9
	8H	14.5	14.9	14.8	15.3	15.6	14.5	14.9	14.8	15.3	15.6
	12H	15.3	15.7	15.7	16.1	16.5	15.3	15.7	15.7	16.1	16.5
4H	2H	12.2	12.7	12.6	13.0	13.2	12.2	12.7	12.6	13.0	13.2
	3H	12.8	13.2	13.2	13.6	14.0	12.8	13.2	13.2	13.6	14.0
	4H	13.4	13.8	13.8	14.2	14.7	13.4	13.8	13.8	14.2	14.7
	6H	14.6	15.0	15.1	15.3	15.7	14.6	15.0	15.1	15.3	15.7
	8H	15.5	15.9	16.0	16.2	16.6	15.5	15.9	16.0	16.2	16.6
	12H	16.5	16.8	17.0	17.2	17.7	16.5	16.8	17.0	17.2	17.7
8H	4H	13.7	14.1	14.2	14.5	14.8	13.7	14.1	14.2	14.5	14.8
	6H	15.3	15.5	15.8	16.0	16.5	15.3	15.5	15.8	16.0	16.5
	8H	16.5	16.7	17.0	17.2	17.8	16.5	16.7	17.0	17.2	17.8
	12H	17.8	18.0	18.4	18.5	19.1	17.8	18.0	18.4	18.5	19.1
12H	4H	13.8	14.1	14.3	14.5	15.0	13.8	14.1	14.3	14.5	15.0
	6H	15.6	15.8	16.1	16.3	16.9	15.6	15.8	16.1	16.3	16.9
	8H	16.9	17.0	17.5	17.5	18.1	16.9	17.0	17.5	17.5	18.1
Corrected glare indices referring to 1075 lm total luminous flux											