

Light efficiency:



Output: 1581 lm



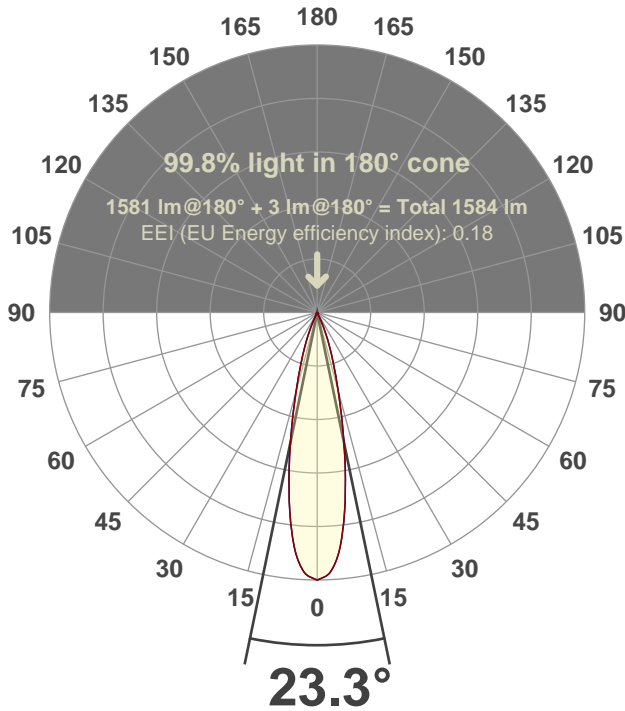
Light quality:



Peak: 8456 cd

Power: 20.8 W

Beam angle



Test number:

SCW3D-R-C20-30k-24°-Rev1

Luminaire Model:

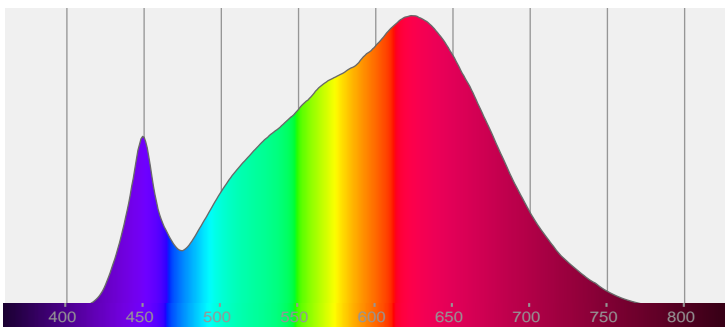
Scope Wonder 3" Round Downlight-C20-30k-24°

Date and time:

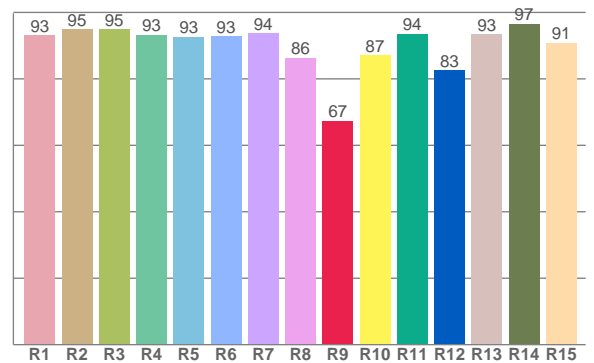
5/27/2021 11:05:44 AM

LUM: 1581

Spectra



CRI: 92.7 (R1-R8)



Color parameters

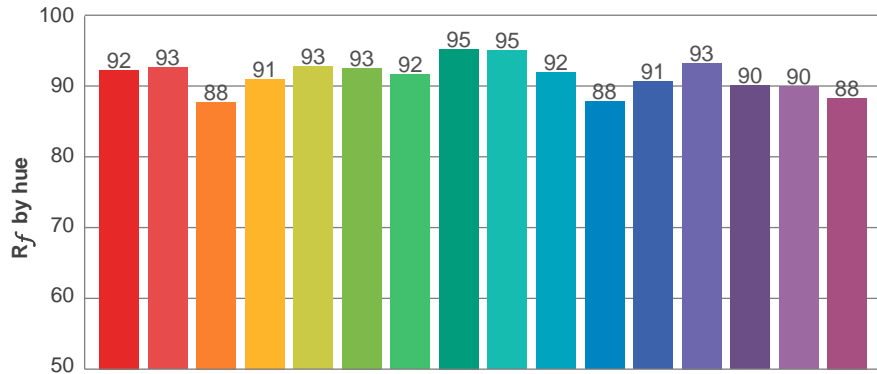
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	92.7	67.4	91.5	101.8	90.6	0.425	0.397	0.246	0.344	-0.0011

R_f 91.5
Fidelity index R_f

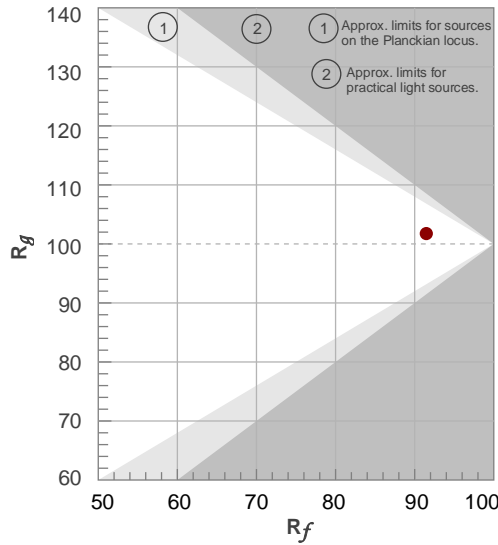
R_g 101.8
Gammut index R_g

TM30: 91.5

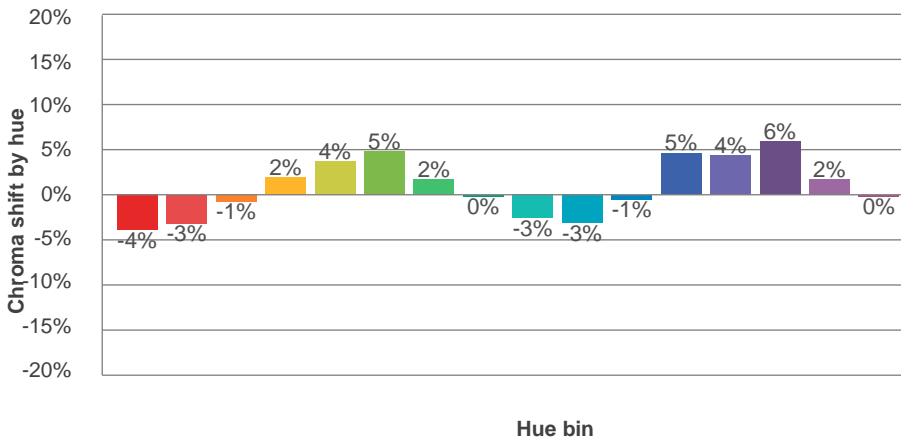
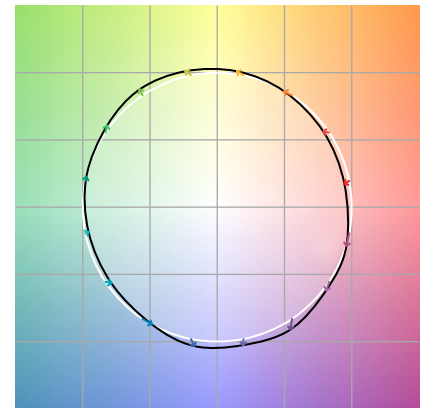
TM-30Color



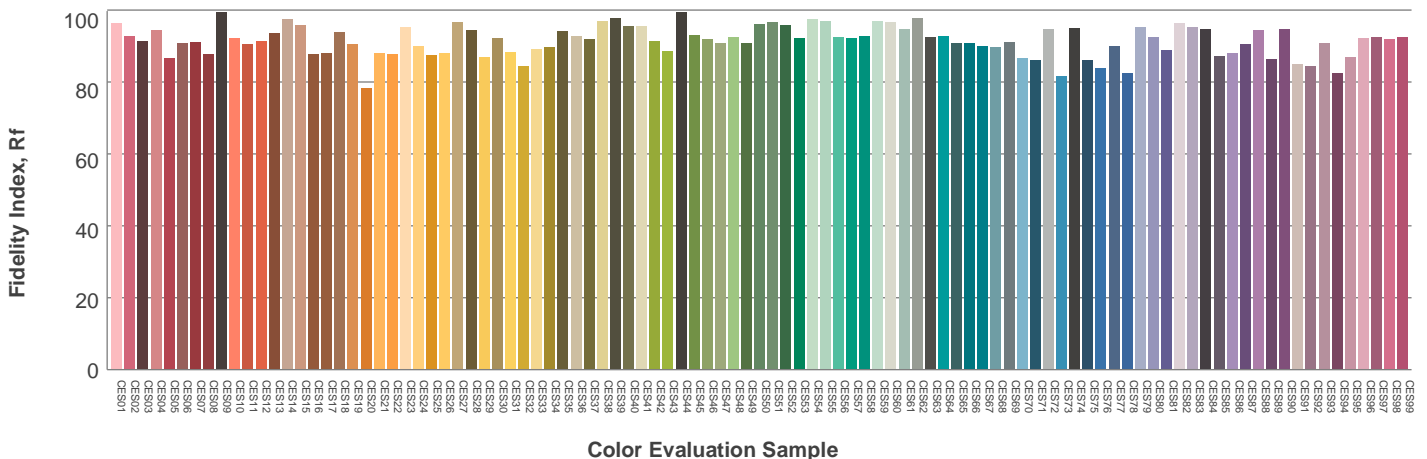
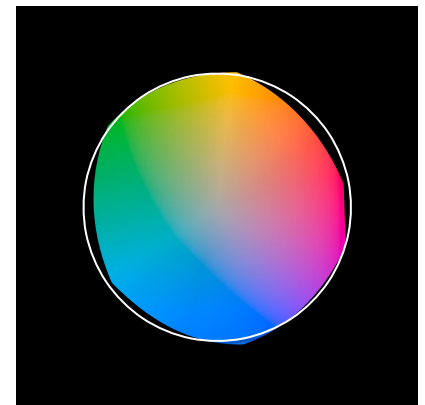
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	92	-4%	-2%
2	93	-3%	3%
3	88	-1%	6%
4	91	2%	5%
5	93	4%	4%
6	93	5%	-1%
7	92	2%	-5%
8	95	0%	-3%
9	95	-3%	-1%
10	92	-3%	3%
11	88	-1%	8%
12	91	5%	3%
13	93	4%	-1%
14	90	6%	-5%
15	90	2%	-6%
16	88	0%	-10%



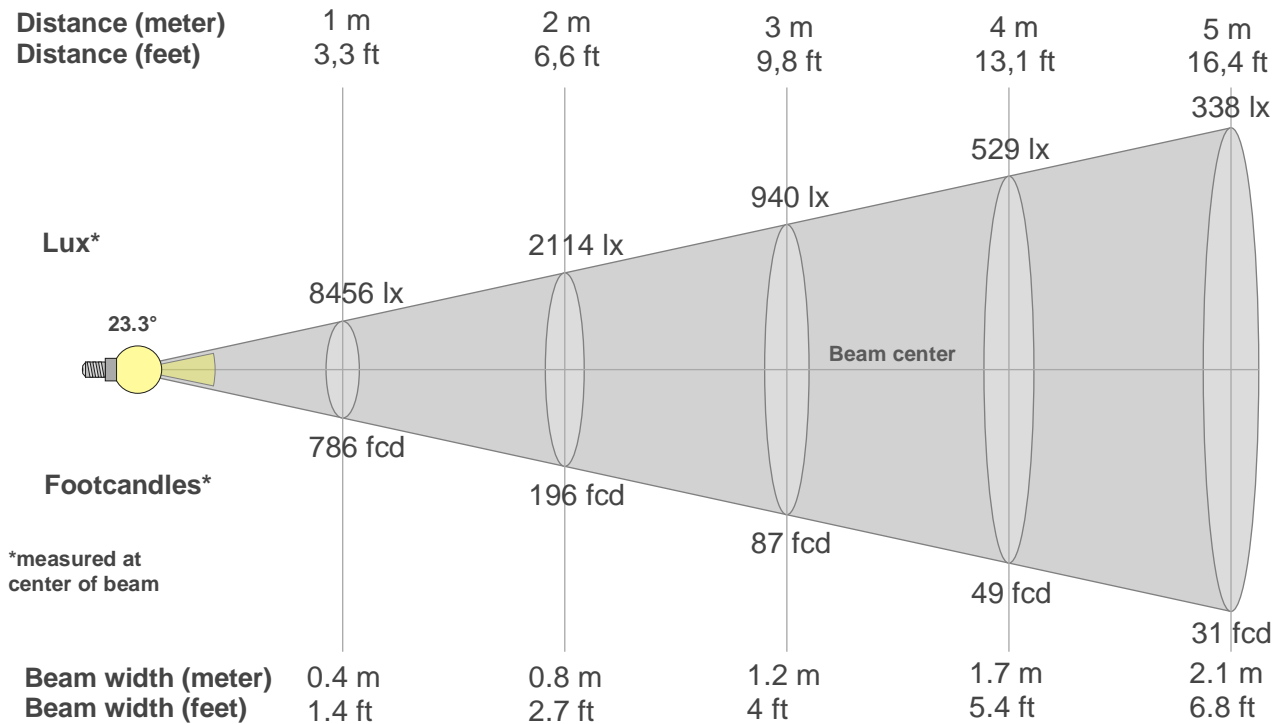
Color vector graphics



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
8456lx	2114lx	940lx	529lx	338lx	235lx	173lx	132lx	104lx	85lx	70lx	59lx	50lx	43lx	38lx	33lx	29lx	26lx	23lx	21lx
785.6fcd	196.4fcd	87.3fcd	49.1fcd	31.4fcd	21.8fcd	16fcd	12.3fcd	9.7fcd	7.9fcd	6.5fcd	5.5fcd	4.6fcd	4fcd	3.5fcd	3.1fcd	2.7fcd	2.4fcd	2.2fcd	2fcd

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°
8456	8322	7941	7261	6288	5149	4043	3062	2256	1635	1168	790	475	235	83	27	21	17	13	11
100%	98%	94%	86%	74%	61%	48%	36%	27%	19%	14%	9%	6%	3%	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°
8456	8322	7941	7261	6288	5149	4043	3062	2256	1635	1168	790	475	235	83	27	21	17	13	11
100%	98%	94%	86%	74%	61%	48%	36%	27%	19%	14%	9%	6%	3%	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°
8456	8322	7941	7261	6288	5149	4043	3062	2256	1635	1168	790	475	235	83	27	21	17	13	11
100%	98%	94%	86%	74%	61%	48%	36%	27%	19%	14%	9%	6%	3%	1%	0%	0%	0%	0%	0%

Intensities in 270° c-plane

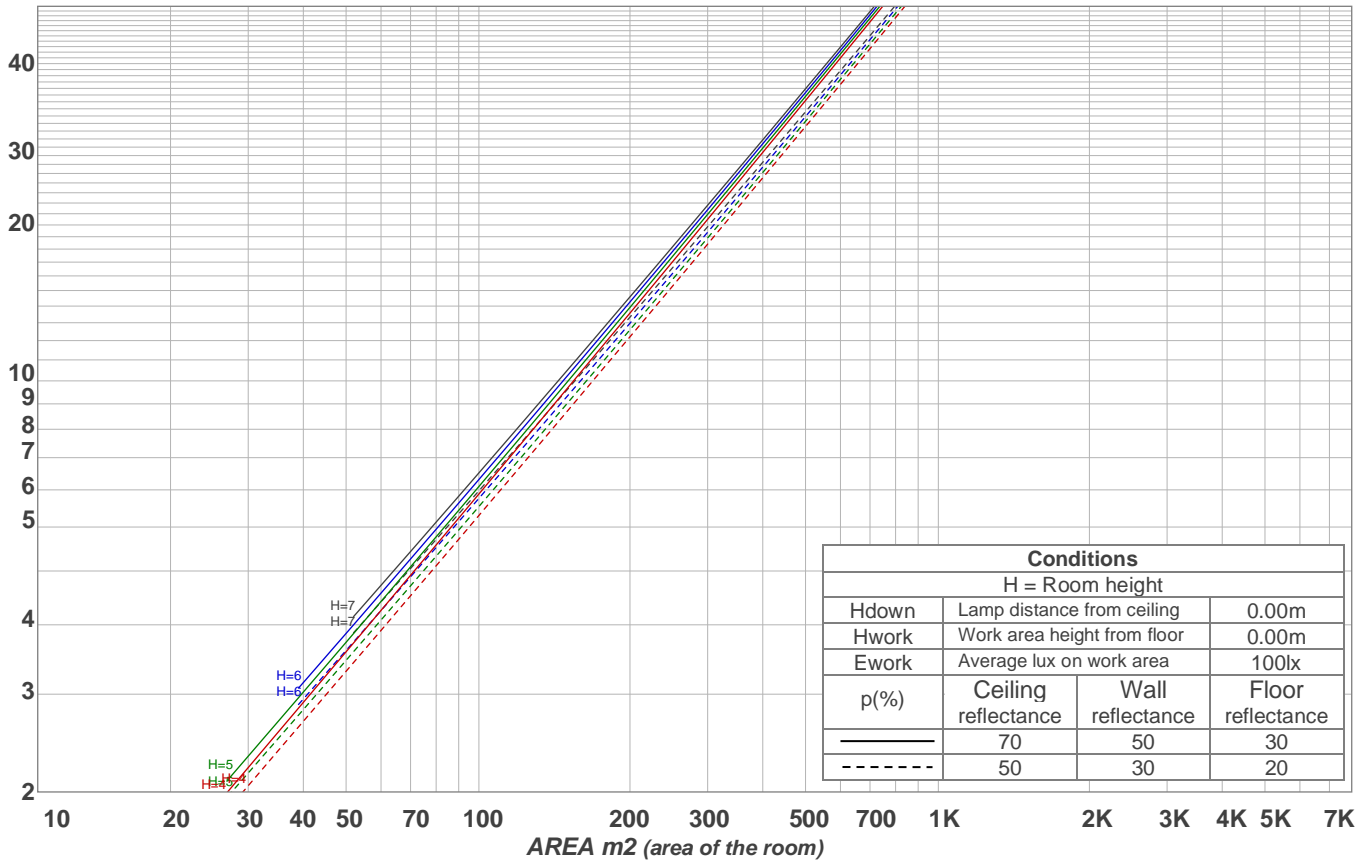
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
8456	8322	7941	7261	6288	5149	4043	3062	2256	1635	1168	790	475	235	83	27	21	17	13	11
100%	98%	94%	86%	74%	61%	48%	36%	27%	19%	14%	9%	6%	3%	1%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
23.3°	43.4°	52.5°	99.6%	99.4%

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

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
646 lm	735 lm	181 lm	9.71 lm	3.79 lm	1.81 lm	1.32 lm	1.31 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	10.9	11.2	10.9	11.4	11.6	10.9	11.2	10.9	11.4	11.6
	3H	11.4	11.9	11.8	12.1	12.3	11.4	11.9	11.8	12.1	12.3
	4H	12.2	12.7	12.5	12.9	13.1	12.2	12.7	12.5	12.9	13.1
	6H	13.5	13.9	13.8	14.2	14.5	13.5	13.9	13.8	14.2	14.5
	8H	14.2	14.6	14.6	15.0	15.3	14.2	14.6	14.6	15.0	15.3
	12H	15.2	15.6	15.5	15.9	16.3	15.2	15.6	15.5	15.9	16.3
4H	2H	10.8	11.4	11.2	11.6	11.8	10.8	11.4	11.2	11.6	11.8
	3H	11.9	12.3	12.3	12.7	13.1	11.9	12.3	12.3	12.7	13.1
	4H	12.9	13.3	13.3	13.7	14.2	12.9	13.3	13.3	13.7	14.2
	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	16.6	16.9	17.1	17.3	17.8	16.6	16.9	17.1	17.3	17.8
8H	4H	13.4	13.8	13.9	14.2	14.5	13.4	13.8	13.9	14.2	14.5
	6H	15.4	15.7	15.9	16.1	16.7	15.4	15.7	15.9	16.1	16.7
	8H	16.6	16.8	17.1	17.3	17.9	16.6	16.8	17.1	17.3	17.9
	12H	18.0	18.1	18.6	18.6	19.2	18.0	18.1	18.6	18.6	19.2
12H	4H	13.6	13.9	14.1	14.3	14.7	13.6	13.9	14.1	14.3	14.7
	6H	15.8	15.9	16.3	16.5	17.1	15.8	15.9	16.3	16.5	17.1
	8H	17.0	17.1	17.6	17.6	18.2	17.0	17.1	17.6	17.6	18.2
Corrected glare indices referring to 1581 lm total luminous flux											