

Light efficiency:



Output: 554 lm

Light quality:

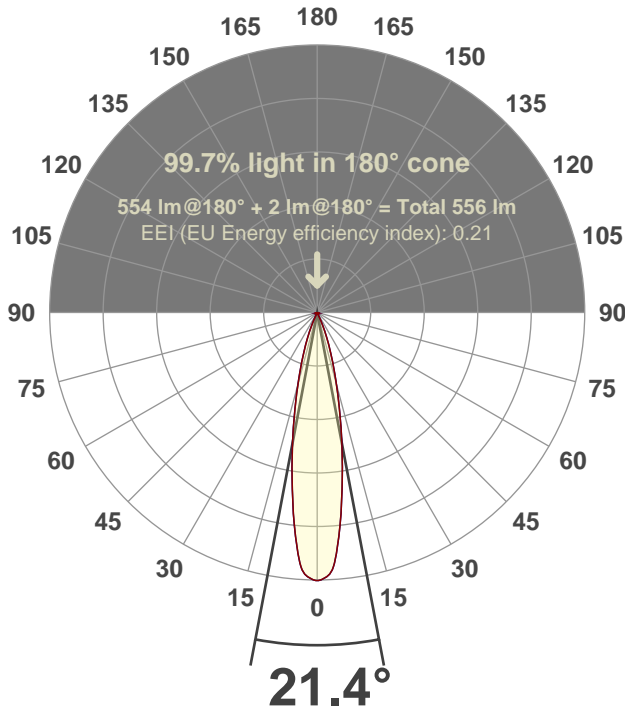


Peak: 3247 cd

Power: 10.0 W



Beam angle



Test number:

SCW3D-R-T7-1840-20°-Rev1

Luminaire Model:

Scope Wonder 3" Round Downlight-T7-1840-20°

Date and time:

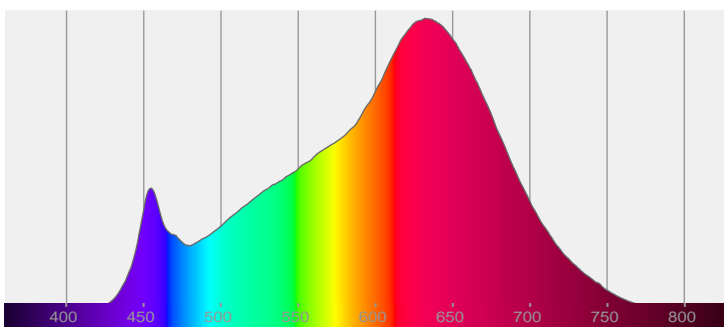
5/27/2021 3:06:07 PM

LUM: 554

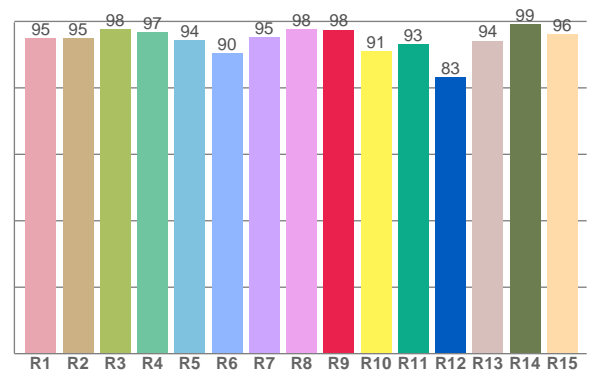
Measured at Mid-Point of Tuneable White CCT Range



Spectra



CRI: 95.2 (R1-R8)



Color parameters

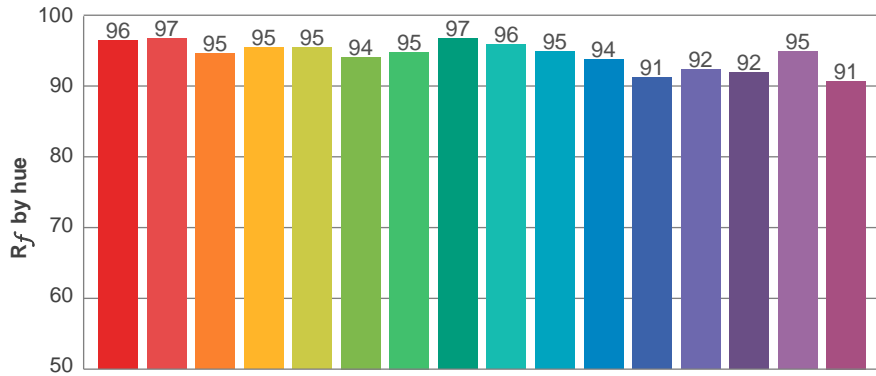
	Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
	CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
	95.2	97.5	94.6	103.5	93.9	0.450	0.392	0.265	0.346	-0.0063

R_f 94.6
Fidelity index R_f

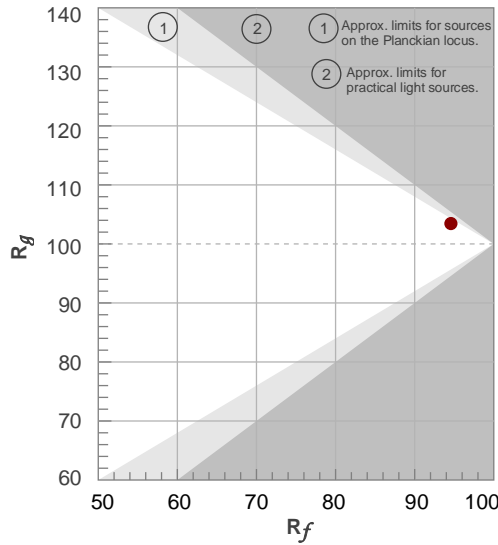
R_g 103.5
Gammut index R_g

TM30: 94.6

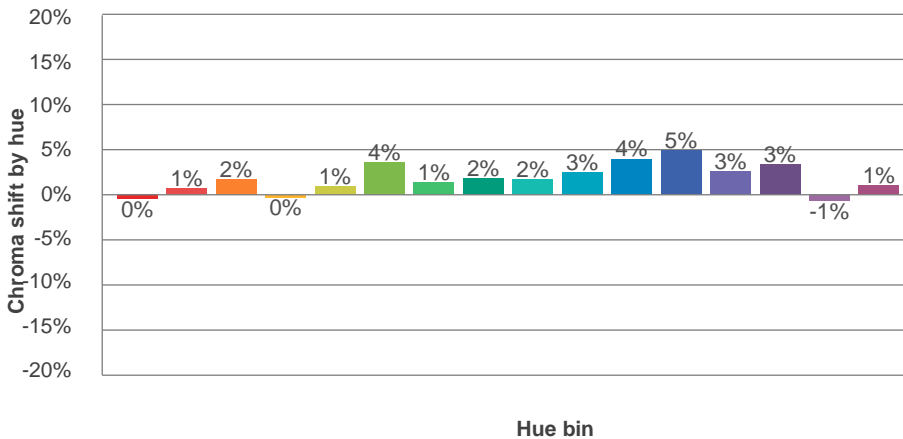
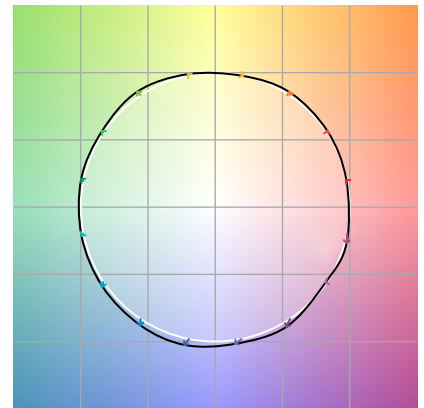
TM-30Color



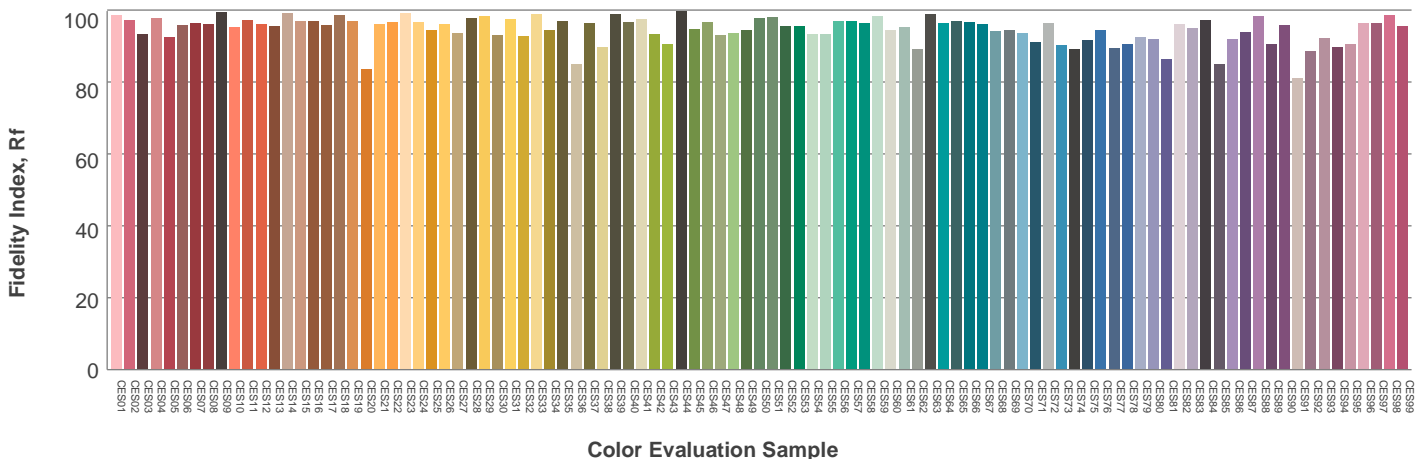
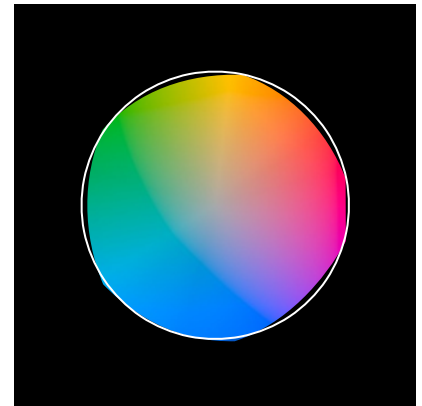
Hue Bin	R_f	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	1%
2	97	1%	1%
3	95	2%	2%
4	95	0%	-1%
5	95	1%	1%
6	94	4%	1%
7	95	1%	0%
8	97	2%	-1%
9	96	2%	2%
10	95	3%	3%
11	94	4%	3%
12	91	5%	-2%
13	92	3%	-5%
14	92	3%	-5%
15	95	-1%	-1%
16	91	1%	-7%



Color vector graphics

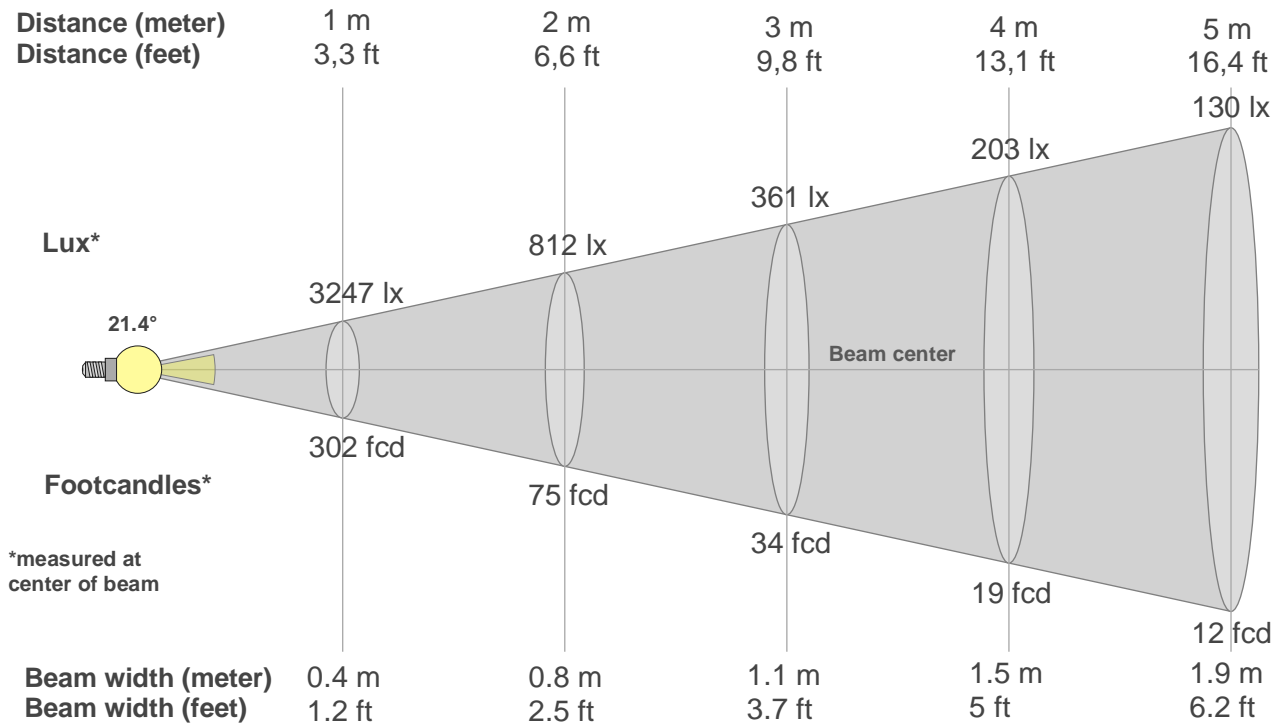


Color distortion



Color Evaluation Sample

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
3247lx	812lx	361lx	203lx	130lx	90lx	66lx	51lx	40lx	32lx	27lx	23lx	19lx	17lx	14lx	13lx	11lx	10lx	9lx	8lx
301.6fcd	75.4fcd	33.5fcd	18.9fcd	12.1fcd	8.4fcd	6.2fcd	4.7fcd	3.7fcd	3fcd	2.5fcd	2.1fcd	1.8fcd	1.5fcd	1.3fcd	1.2fcd	1fcd	0.9fcd	0.8fcd	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°
3247	3198	3034	2633	2183	1766	1390	1059	789	578	409	269	153	64	23	9	6	5	4	3
100%	99%	93%	81%	67%	54%	43%	33%	24%	18%	13%	8%	5%	2%	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°
3247	3198	3034	2633	2183	1766	1390	1059	789	578	409	269	153	64	23	9	6	5	4	3
100%	99%	93%	81%	67%	54%	43%	33%	24%	18%	13%	8%	5%	2%	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°
3247	3198	3034	2633	2183	1766	1390	1059	789	578	409	269	153	64	23	9	6	5	4	3
100%	99%	93%	81%	67%	54%	43%	33%	24%	18%	13%	8%	5%	2%	1%	0%	0%	0%	0%	0%

Intensities in 270° c-plane

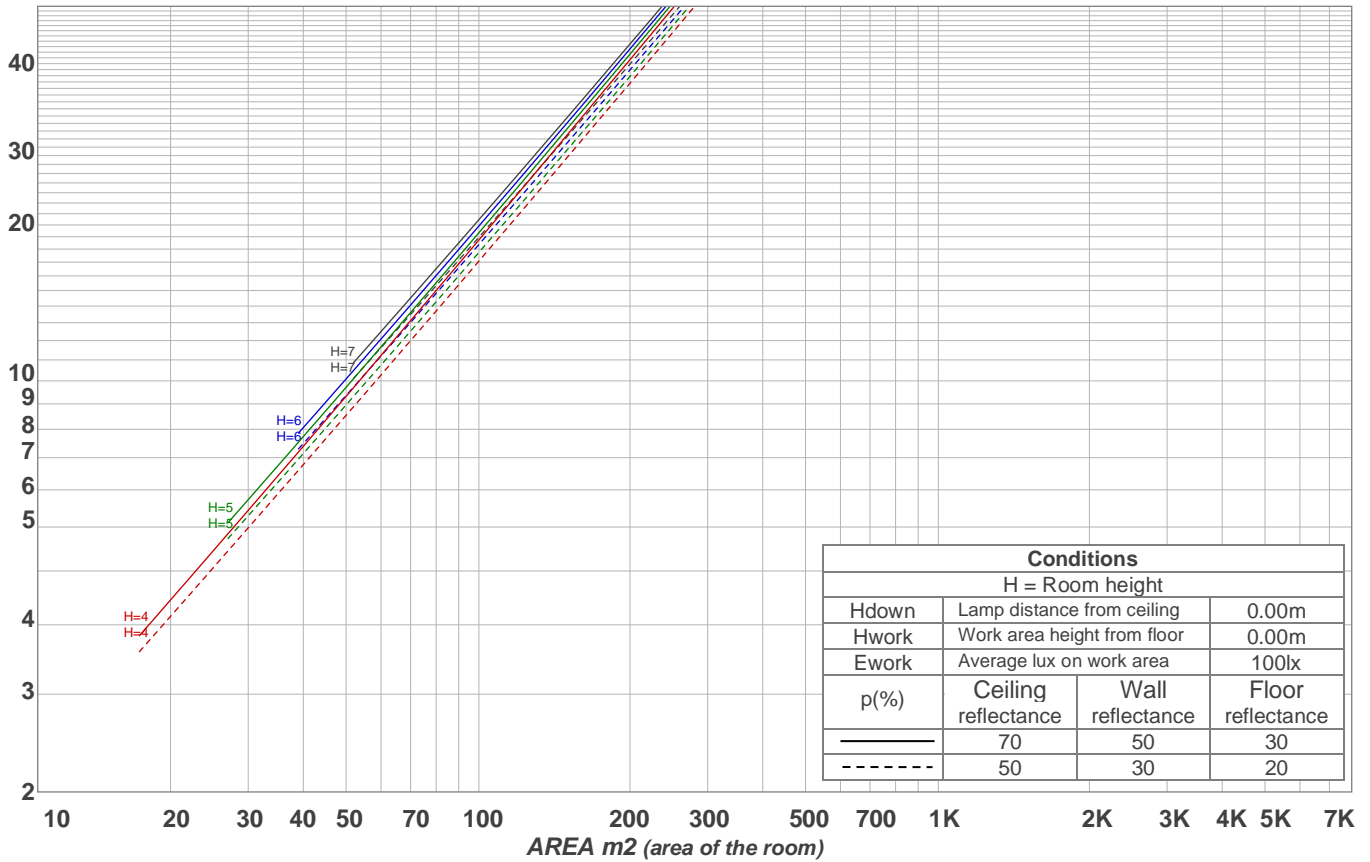
0°	2°	4°	6°	8°	10°	12°	14°	16°	18°	20°	22°	24°	26°	28°	30°	32°	34°	36°	38°
3247	3198	3034	2633	2183	1766	1390	1059	789	578	409	269	153	64	23	9	6	5	4	3
100%	99%	93%	81%	67%	54%	43%	33%	24%	18%	13%	8%	5%	2%	1%	0%	0%	0%	0%	0%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
21.4°	42.2°	51.2°	99.4%	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	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	109	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	95	
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92	
4	106	101	97	95	104	100	97	94	98	95	93	96	94	92	94	93	91	90	
5	103	98	94	91	102	97	94	91	95	92	90	94	91	89	93	90	89	88	
6	101	95	91	88	99	94	91	88	93	90	88	92	89	87	91	88	87	86	
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84	
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82	
9	94	88	84	82	93	87	84	82	87	84	81	86	83	81	85	83	81	80	
10	92	86	82	80	91	86	82	80	85	82	80	84	81	79	84	81	79	78	

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
235 lm	255 lm	57.7 lm	2.66 lm	1.10 lm	0.639 lm	0.625 lm	0.599 lm	0.639 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	7.9	8.2	7.9	8.4	8.6	7.9	8.2	7.9	8.4	8.6
	3H	9.4	9.9	9.7	10.1	10.2	9.4	9.9	9.7	10.1	10.2
	4H	10.4	10.9	10.8	11.1	11.4	10.4	10.9	10.8	11.1	11.4
	6H	12.3	12.7	12.5	13.0	13.3	12.3	12.7	12.5	13.0	13.3
	8H	13.6	14.0	13.9	14.3	14.7	13.6	14.0	13.9	14.3	14.7
	12H	14.8	15.2	15.2	15.6	16.0	14.8	15.2	15.2	15.6	16.0
4H	2H	8.2	8.7	8.6	8.9	9.1	8.2	8.7	8.6	8.9	9.1
	3H	10.3	10.7	10.6	11.0	11.5	10.3	10.7	10.6	11.0	11.5
	4H	11.5	11.9	11.9	12.3	12.8	11.5	11.9	11.9	12.3	12.8
	6H	13.6	14.1	14.1	14.4	14.7	13.6	14.1	14.1	14.4	14.7
	8H	15.1	15.5	15.6	15.8	16.2	15.1	15.5	15.6	15.8	16.2
	12H	16.5	16.8	17.0	17.2	17.7	16.5	16.8	17.0	17.2	17.7
8H	4H	12.2	12.6	12.7	12.9	13.3	12.2	12.6	12.7	12.9	13.3
	6H	14.7	15.0	15.2	15.4	15.9	14.7	15.0	15.2	15.4	15.9
	8H	16.5	16.7	17.0	17.2	17.8	16.5	16.7	17.0	17.2	17.8
	12H	18.1	18.2	18.7	18.7	19.3	18.1	18.2	18.7	18.7	19.3
12H	4H	12.4	12.7	12.9	13.1	13.6	12.4	12.7	12.9	13.1	13.6
	6H	15.2	15.4	15.7	15.9	16.5	15.2	15.4	15.7	15.9	16.5
	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 554 lm total luminous flux											