

Light efficiency:



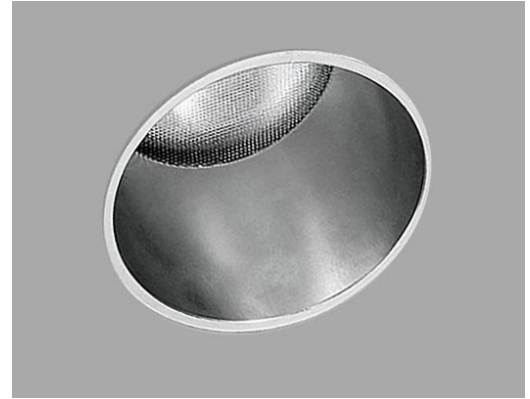
Light quality:



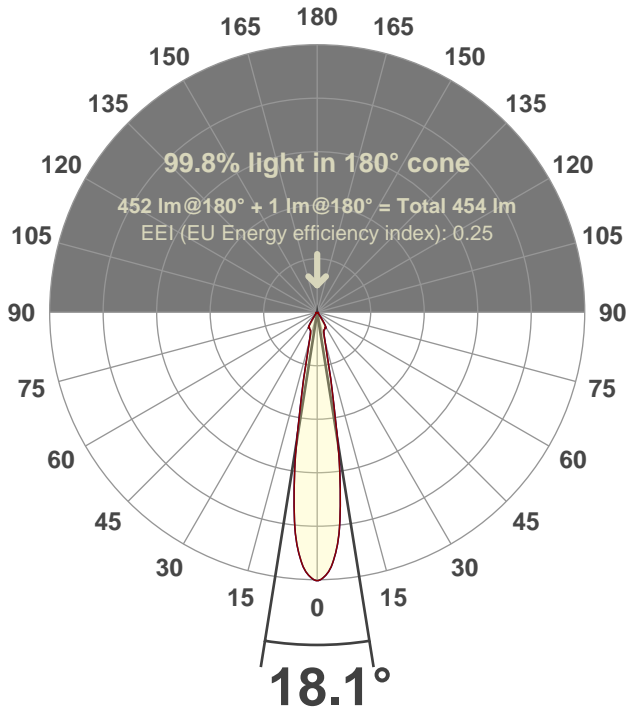
Output: 452 lm

Peak: 2634 cd

Power: 9.8 W



Beam angle



Test number:

SCOD-R-DR-T7-1840-10°-CLEAR ANODIZE-Rev1

Luminaire Model:

Scope Original 2.5" Round Deep Regress Downlight-T7-TW1840-10°

Date and time:

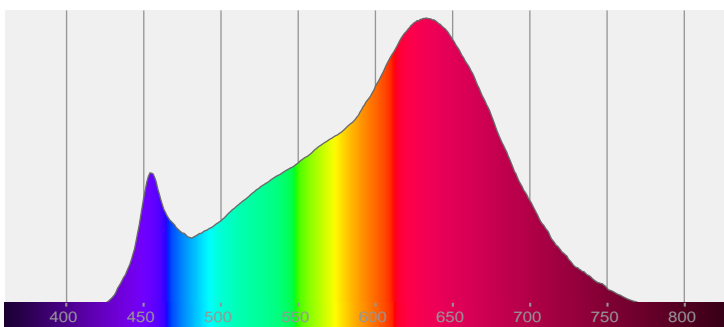
5/20/2021 8:19:21 PM

LUM: 452

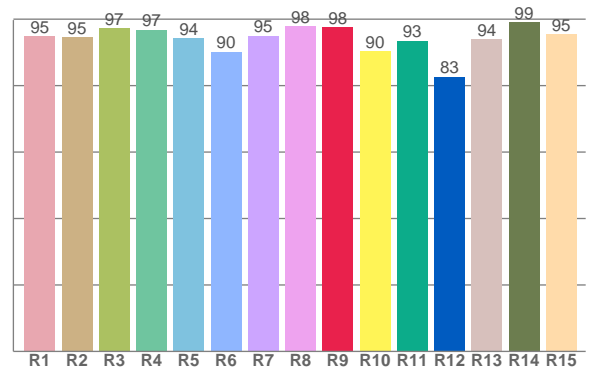
Measured at Mid-Point of Tuneable White CCT Range



Spectra



CRI: 95.1 (R1-R8)



Color parameters

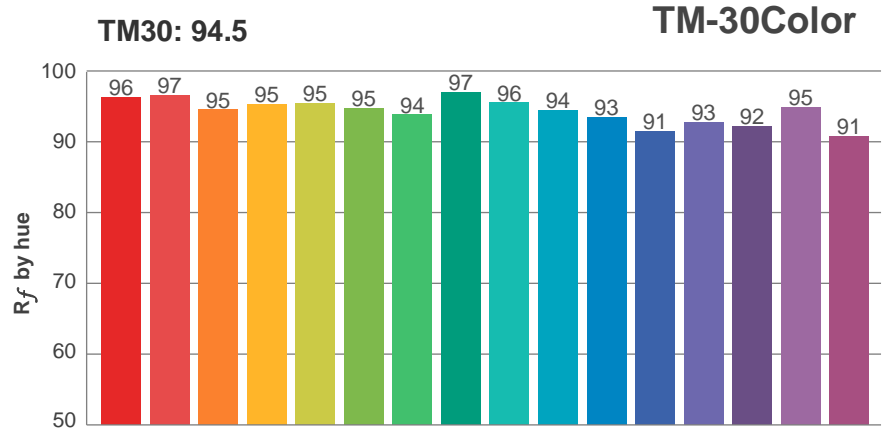
Color rendering index	Red component	Color fidelity	Color gamut	Color quality scale	Color coordinate cie 1931	Color coordinate cie 1931	Color coordinate	Color coordinate	Color deviation from black body
CRI	CRI R9	TM30 R _f	TM30 R _g	CQS	x	y	u	v	Δuv
95.1	97.6	94.5	103.3	94.1	0.441	0.388	0.261	0.344	-0.0072

R_f 94.5

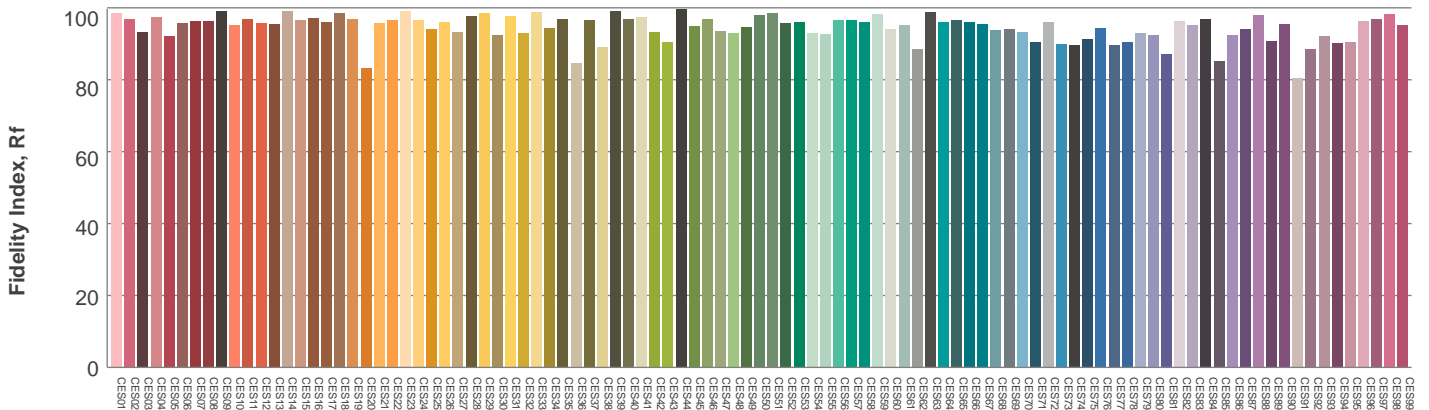
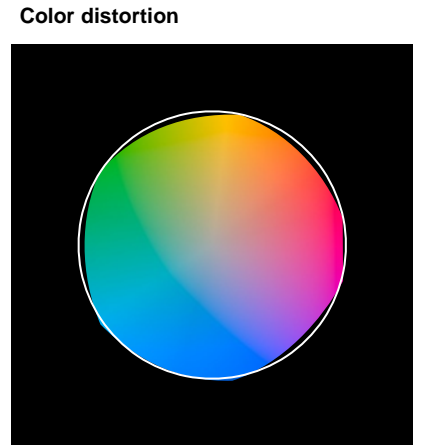
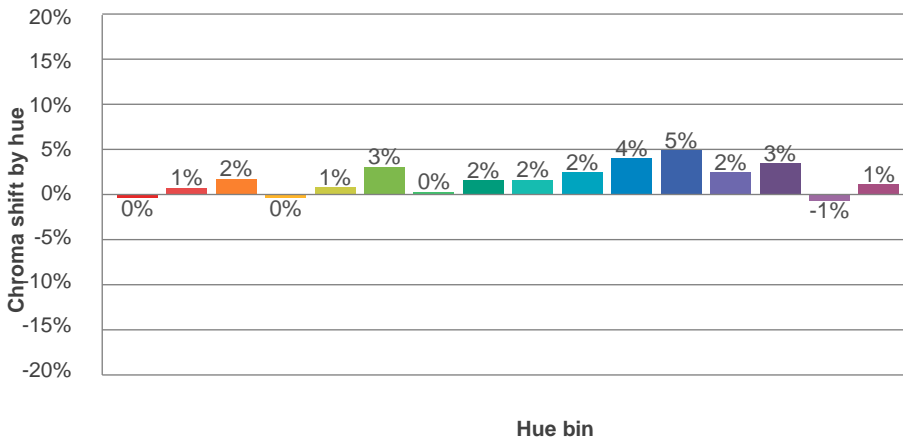
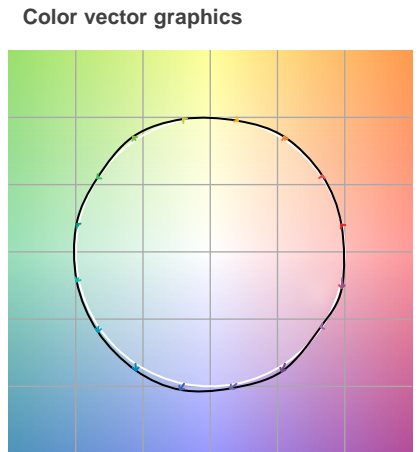
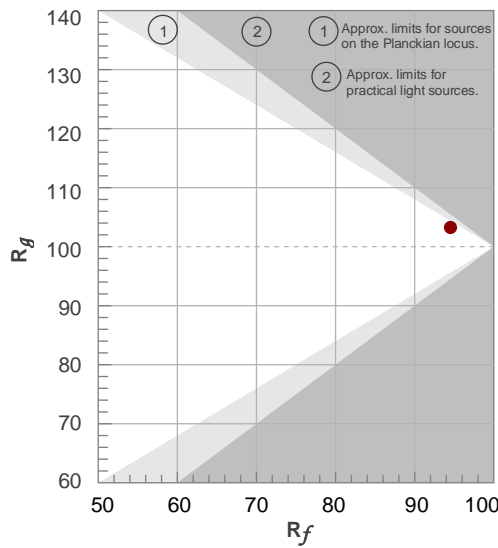
Fidelity index R_f

R_g 103.3

Gammut index R_g



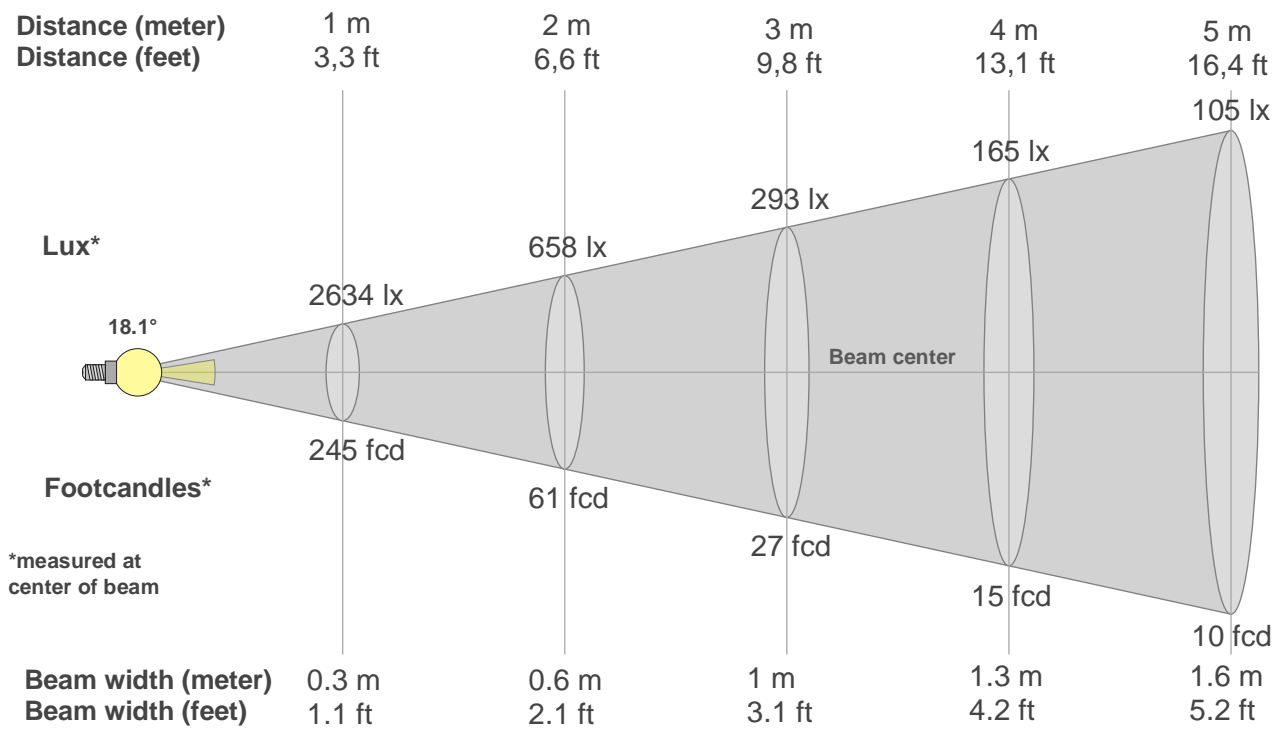
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	96	0%	1%
2	97	1%	1%
3	95	2%	2%
4	95	0%	-1%
5	95	1%	1%
6	95	3%	0%
7	94	0%	1%
8	97	2%	-1%
9	96	2%	2%
10	94	2%	3%
11	93	4%	3%
12	91	5%	-2%
13	93	2%	-5%
14	92	3%	-5%
15	95	-1%	-1%
16	91	1%	-7%



Color Evaluation Sample

www.specialtylightingindustries.com As a result of our continuous improvement, values are subject to change without notice. These are delivered results and can vary +/- 10% from published source data range.

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
2634lx	658lx	293lx	165lx	105lx	73lx	54lx	41lx	33lx	26lx	22lx	18lx	16lx	13lx	12lx	10lx	9lx	8lx	7lx	7lx
244.7fcd	61.2fcd	27.2fcd	15.3fcd	9.8fcd	6.8fcd	5fcd	3.8fcd	3fcd	2.4fcd	2fcd	1.7fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.8fcd	0.8fcd	0.7fcd	0.6fcd

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°
2634	2633	2575	2516	2412	2270	2120	1862	1605	1328	1040	771	617	463	375	318	269	244	219	205
100%	100%	98%	96%	92%	86%	80%	71%	61%	50%	39%	29%	23%	18%	14%	12%	10%	9%	8%	8%

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°
2634	2633	2575	2516	2412	2270	2120	1862	1605	1328	1040	771	617	463	375	318	269	244	219	205
100%	100%	98%	96%	92%	86%	80%	71%	61%	50%	39%	29%	23%	18%	14%	12%	10%	9%	8%	8%

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°
2634	2633	2575	2516	2412	2270	2120	1862	1605	1328	1040	771	617	463	375	318	269	244	219	205
100%	100%	98%	96%	92%	86%	80%	71%	61%	50%	39%	29%	23%	18%	14%	12%	10%	9%	8%	8%

Intensities in 270° c-plane

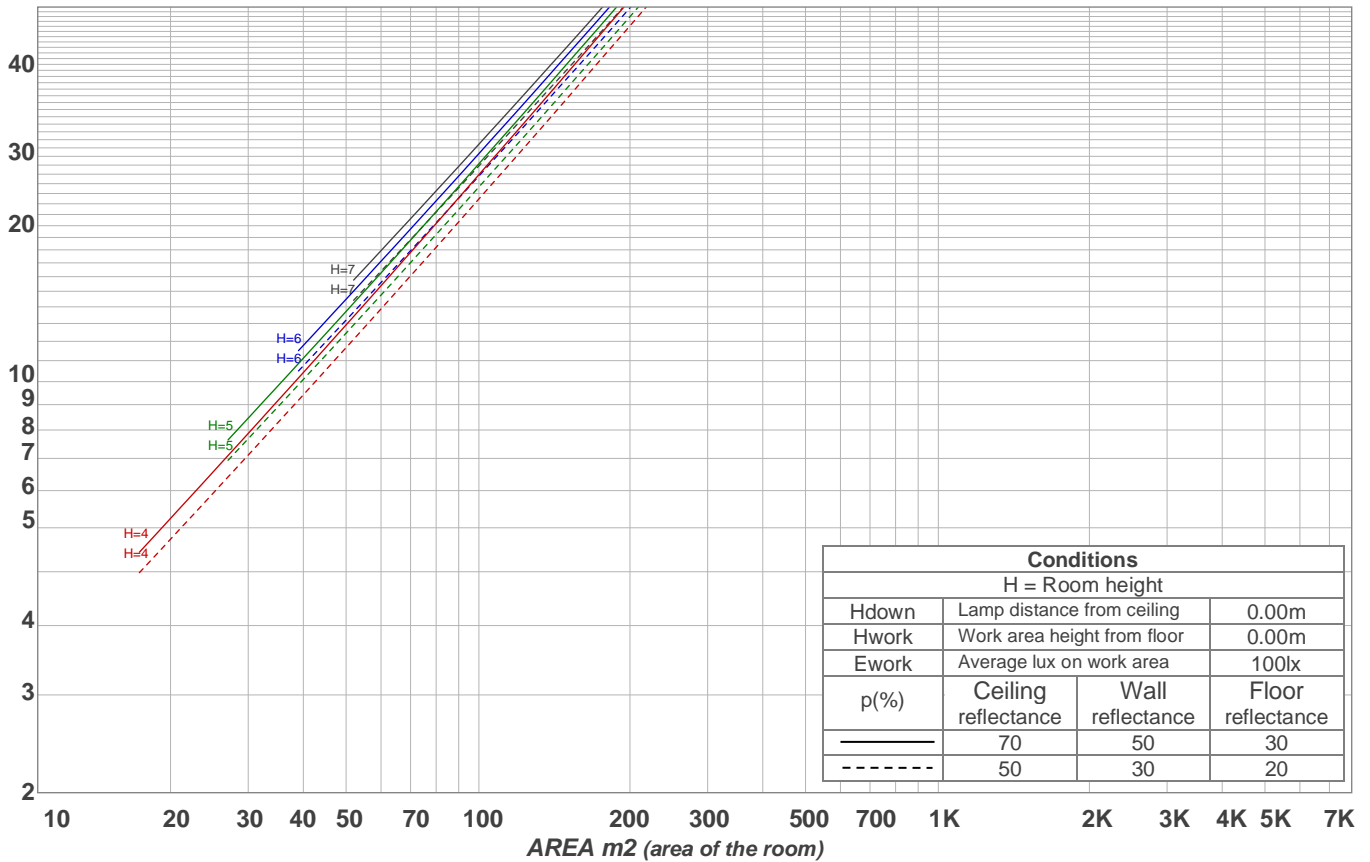
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
2634	2633	2575	2516	2412	2270	2120	1862	1605	1328	1040	771	617	463	375	318	269	244	219	205
100%	100%	98%	96%	92%	86%	80%	71%	61%	50%	39%	29%	23%	18%	14%	12%	10%	9%	8%	8%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
18.1°	32.4°	74°	98.3%	95.5%

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	91	89	92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	88	83	79	93	87	82	79	86	82	79	84	81	78	83	80	78	76
7	92	84	80	76	90	84	79	76	82	79	76	81	78	75	80	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	79	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	84	76	72	69	83	76	71	68	75	71	68	74	71	68	74	70	68	67

Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
178 lm	102 lm	81.2 lm	60.7 lm	19.2 lm	4.79 lm	2.63 lm	1.94 lm	1.98 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	26.2	26.7	26.3	26.9	27.1	26.2	26.7	26.3	26.9	27.1
	3H	26.0	26.7	26.4	26.9	27.0	26.0	26.7	26.4	26.9	27.0
	4H	26.0	26.7	26.4	26.9	27.1	26.0	26.7	26.4	26.9	27.1
	6H	26.2	26.7	26.5	27.0	27.4	26.2	26.7	26.5	27.0	27.4
	8H	26.3	26.8	26.6	27.1	27.5	26.3	26.8	26.6	27.1	27.5
	12H	26.5	27.0	26.9	27.4	27.8	26.5	27.0	26.9	27.4	27.8
4H	2H	25.9	26.5	26.3	26.7	27.0	25.9	26.5	26.3	26.7	27.0
	3H	25.9	26.4	26.3	26.8	27.2	25.9	26.4	26.3	26.8	27.2
	4H	26.0	26.4	26.4	26.8	27.3	26.0	26.4	26.4	26.8	27.3
	6H	26.1	26.7	26.6	27.0	27.3	26.1	26.7	26.6	27.0	27.3
	8H	26.3	26.8	26.9	27.1	27.5	26.3	26.8	26.9	27.1	27.5
	12H	26.7	27.1	27.2	27.5	28.0	26.7	27.1	27.2	27.5	28.0
8H	4H	25.9	26.4	26.4	26.7	27.1	25.9	26.4	26.4	26.7	27.1
	6H	26.3	26.6	26.8	27.0	27.5	26.3	26.6	26.8	27.0	27.5
	8H	26.7	26.9	27.2	27.4	28.0	26.7	26.9	27.2	27.4	28.0
	12H	27.3	27.5	27.9	28.0	28.6	27.3	27.5	27.9	28.0	28.6
12H	4H	25.9	26.2	26.4	26.6	27.1	25.9	26.2	26.4	26.6	27.1
	6H	26.3	26.6	26.9	27.1	27.7	26.3	26.6	26.9	27.1	27.7
	8H	26.8	27.0	27.3	27.5	28.1	26.8	27.0	27.3	27.5	28.1

Corrected glare indices referring to 452 lm total luminous flux