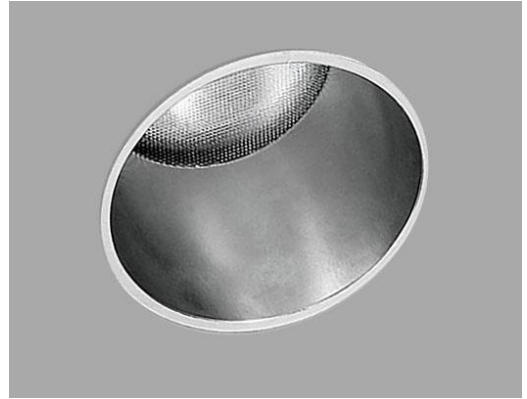


Light efficiency:



Output: 631 lm



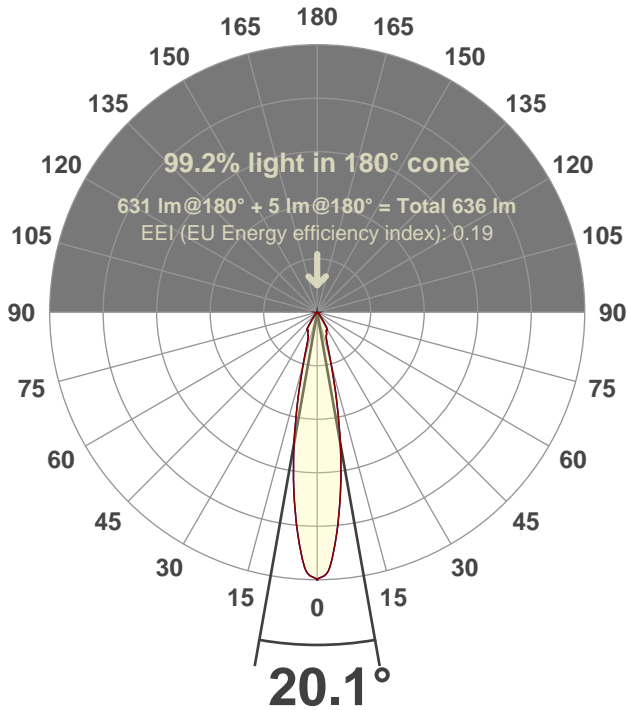
Light quality:



Peak: 2970 cd

Power: 9.8 W

Beam angle



Test number:

SCOD-R-DR-T7-2765-20°-CLEAR ANODIZE-Rev1

Luminaire Model:

Scope Original 2.5" Round Deep Regress Downlight-T7-TW2765-20°

Date and time:

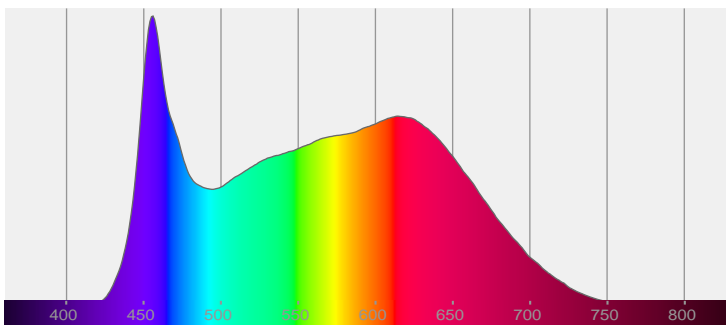
6/2/2021 7:45:03 PM

LUM: 631

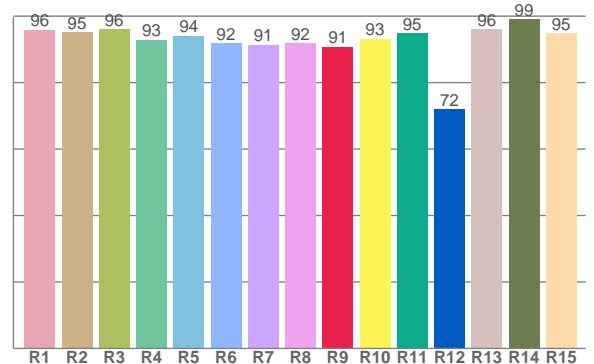
Measured at Mid-Point of Tuneable White CCT Range



Spectra



CRI: 93.7 (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 <sub>f</sub>	TM30 R <sub>g</sub>	CQS	x	y	u	v	Δuv
93.7	90.7	90.0	98.6	92.0	0.356	0.346	0.221	0.322	-0.0070

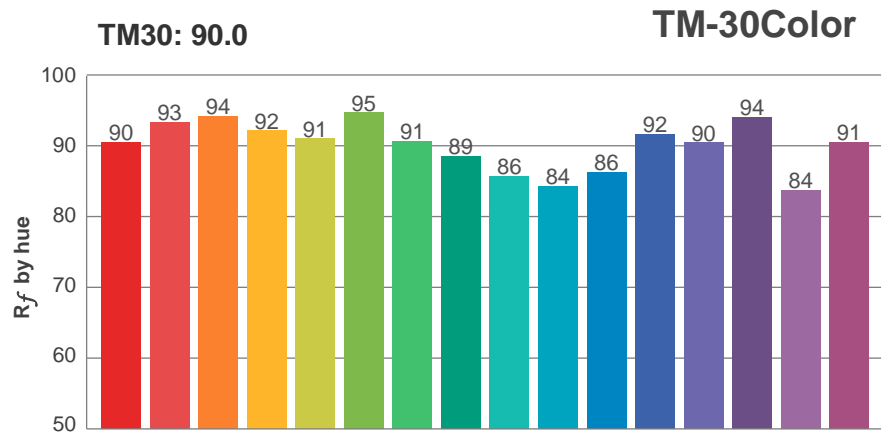
**$R_f$  90.0**

Fidelity index  $R_f$

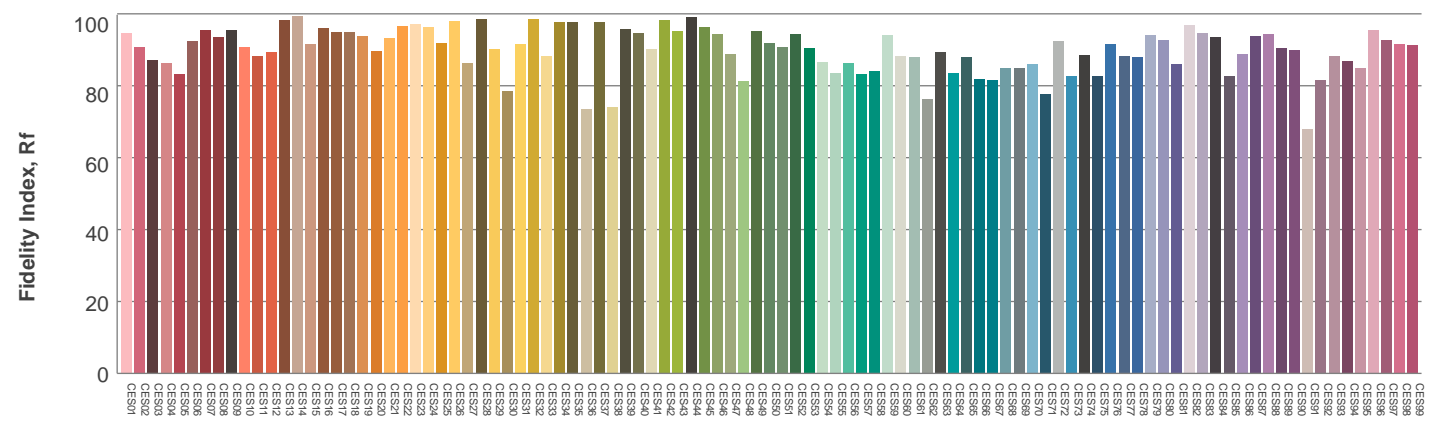
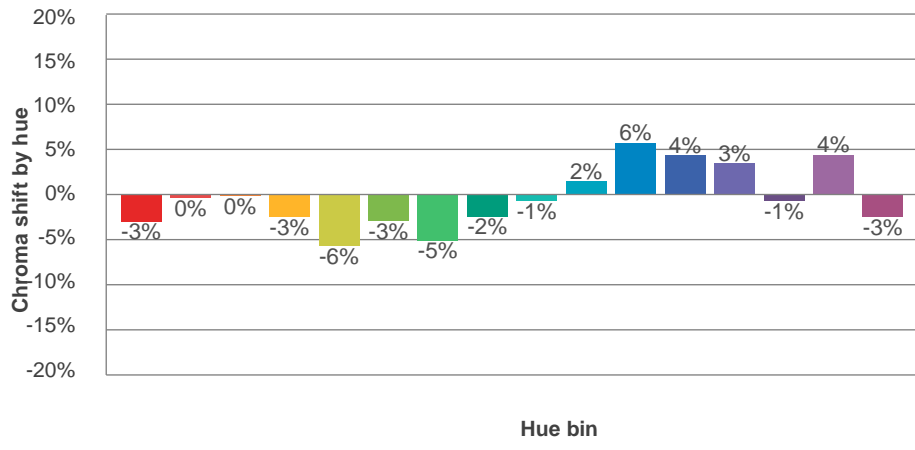
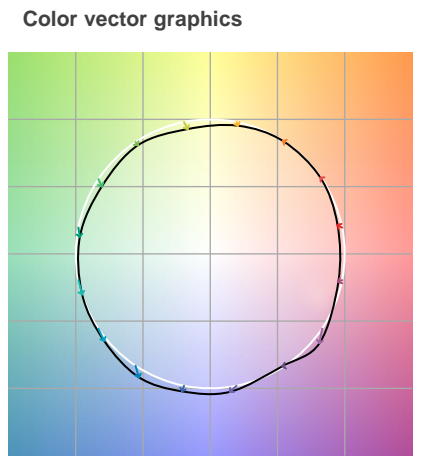
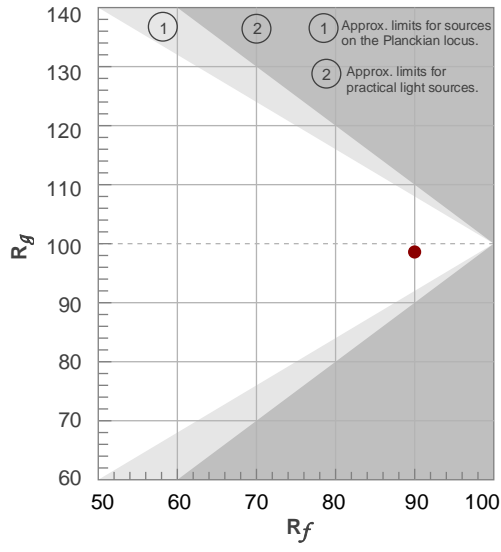
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**$R_g$  98.6**

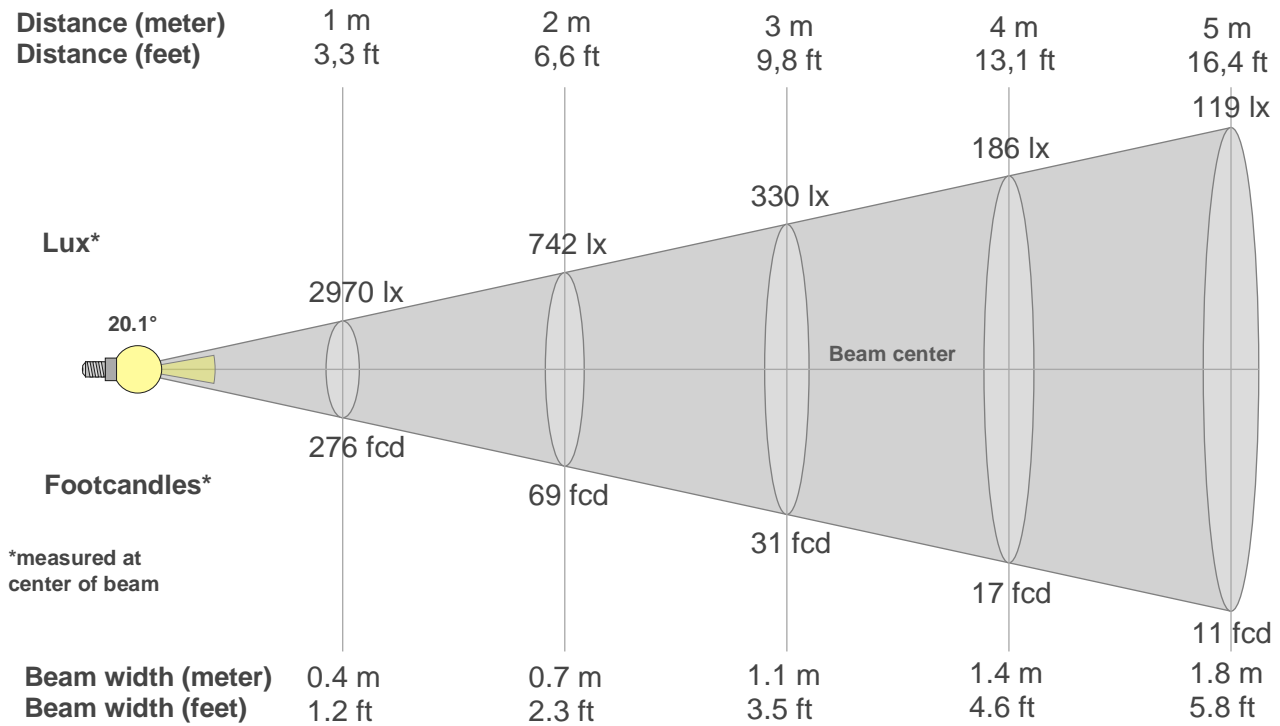
Gammut index  $R_g$



Hue Bin	$R_f$	Graphic shifts (%)	
		Chroma	Hue
1	90	-3%	3%
2	93	0%	2%
3	94	0%	2%
4	92	-3%	-2%
5	91	-6%	-2%
6	95	-3%	0%
7	91	-5%	3%
8	89	-2%	7%
9	86	-1%	11%
10	84	2%	10%
11	86	6%	7%
12	92	4%	-1%
13	90	3%	-6%
14	94	-1%	-2%
15	84	4%	-10%
16	91	-3%	-2%



### 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
2970lx	742lx	330lx	186lx	119lx	82lx	61lx	46lx	37lx	30lx	25lx	21lx	18lx	15lx	13lx	12lx	10lx	9lx	8lx	7lx
275.9fcd	69fcd	30.7fcd	17.2fcd	11fcd	7.7fcd	5.6fcd	4.3fcd	3.4fcd	2.8fcd	2.3fcd	1.9fcd	1.6fcd	1.4fcd	1.2fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd

#### 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°
2970	2935	2896	2804	2643	2481	2288	2094	1896	1692	1490	1293	1096	923	766	618	522	426	369	328
100%	99%	98%	94%	89%	84%	77%	71%	64%	57%	50%	44%	37%	31%	26%	21%	18%	14%	12%	11%

#### 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°
2970	2935	2896	2804	2643	2481	2288	2094	1896	1692	1490	1293	1096	923	766	618	522	426	369	328
100%	99%	98%	94%	89%	84%	77%	71%	64%	57%	50%	44%	37%	31%	26%	21%	18%	14%	12%	11%

#### 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°
2970	2935	2896	2804	2643	2481	2288	2094	1896	1692	1490	1293	1096	923	766	618	522	426	369	328
100%	99%	98%	94%	89%	84%	77%	71%	64%	57%	50%	44%	37%	31%	26%	21%	18%	14%	12%	11%

#### Intensities in 270° c-plane

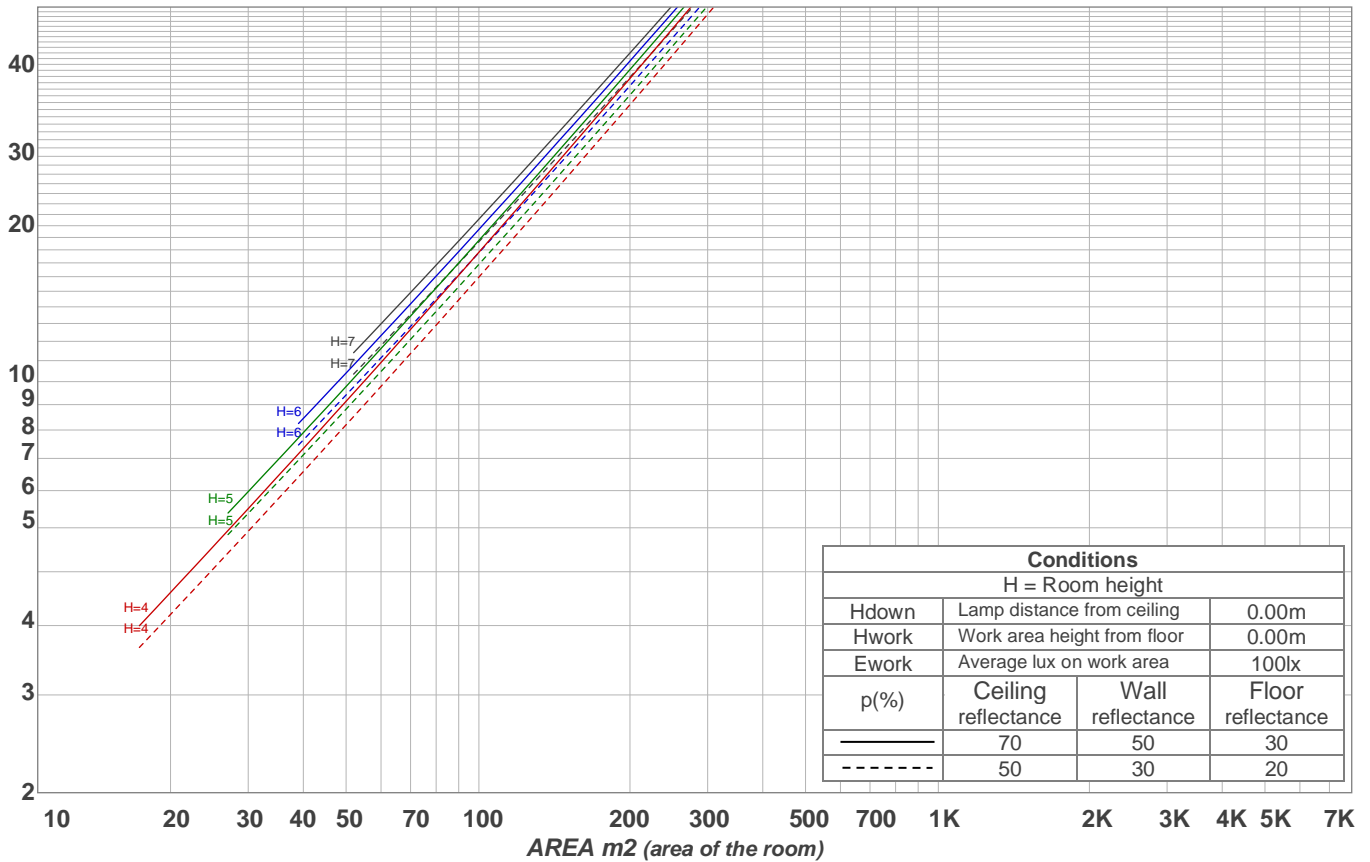
0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
2970	2935	2896	2804	2643	2481	2288	2094	1896	1692	1490	1293	1096	923	766	618	522	426	369	328
100%	99%	98%	94%	89%	84%	77%	71%	64%	57%	50%	44%	37%	31%	26%	21%	18%	14%	12%	11%

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
20.1°	39.6°	76.3°	97.9%	94.6%

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	114	112	109	107	112	110	108	106	106	104	103	102	101	99	98	97	97	95	
2	110	105	102	99	107	104	100	98	100	98	96	98	95	94	95	93	92	90	
3	105	100	95	92	103	98	94	91	96	93	90	93	91	88	91	89	87	86	
4	101	95	90	86	99	94	89	86	92	88	85	90	87	84	88	85	83	82	
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78	
6	94	86	81	78	92	86	81	78	84	80	77	83	79	77	82	79	76	75	
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	76	73	72	
8	87	80	75	71	86	79	74	71	78	74	71	77	73	71	76	73	70	69	
9	84	77	72	69	84	76	72	68	75	71	68	75	71	68	74	70	68	67	
10	82	74	69	66	81	74	69	66	73	69	66	72	68	66	72	68	66	65	

### Zonal Lumen Summary

0°-10°	10°-20°	20°-30°	30°-40°	40°-50°	50°-60°	60°-70°	70°-80°	80°-90°
203 lm	185 lm	115 lm	82.2 lm	29.6 lm	7.55 lm	3.72 lm	2.17 lm	2.53 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	27.6	28.1	27.7	28.3	28.5	27.6	28.1	27.7	28.3	28.5
	3H	27.4	28.0	27.7	28.2	28.4	27.4	28.0	27.7	28.2	28.4
	4H	27.3	28.0	27.7	28.2	28.4	27.3	28.0	27.7	28.2	28.4
	6H	27.5	28.0	27.7	28.3	28.6	27.5	28.0	27.7	28.3	28.6
	8H	27.5	28.0	27.8	28.4	28.7	27.5	28.0	27.8	28.4	28.7
	12H	27.7	28.2	28.0	28.6	29.0	27.7	28.2	28.0	28.6	29.0
4H	2H	27.2	27.9	27.6	28.1	28.3	27.2	27.9	27.6	28.1	28.3
	3H	27.3	27.8	27.6	28.1	28.5	27.3	27.8	27.6	28.1	28.5
	4H	27.2	27.7	27.6	28.1	28.6	27.2	27.7	27.6	28.1	28.6
	6H	27.3	27.8	27.8	28.2	28.5	27.3	27.8	27.8	28.2	28.5
	8H	27.5	28.0	28.0	28.3	28.7	27.5	28.0	28.0	28.3	28.7
	12H	27.8	28.2	28.3	28.6	29.1	27.8	28.2	28.3	28.6	29.1
8H	4H	27.1	27.6	27.7	28.0	28.3	27.1	27.6	27.7	28.0	28.3
	6H	27.4	27.7	27.9	28.1	28.7	27.4	27.7	27.9	28.1	28.7
	8H	27.7	28.0	28.2	28.5	29.1	27.7	28.0	28.2	28.5	29.1
	12H	28.3	28.5	28.9	29.0	29.6	28.3	28.5	28.9	29.0	29.6
12H	4H	27.1	27.5	27.6	27.9	28.3	27.1	27.5	27.6	27.9	28.3
	6H	27.5	27.7	28.0	28.2	28.8	27.5	27.7	28.0	28.2	28.8
	8H	27.8	28.0	28.4	28.5	29.1	27.8	28.0	28.4	28.5	29.1

Corrected glare indices referring to 631 lm total luminous flux