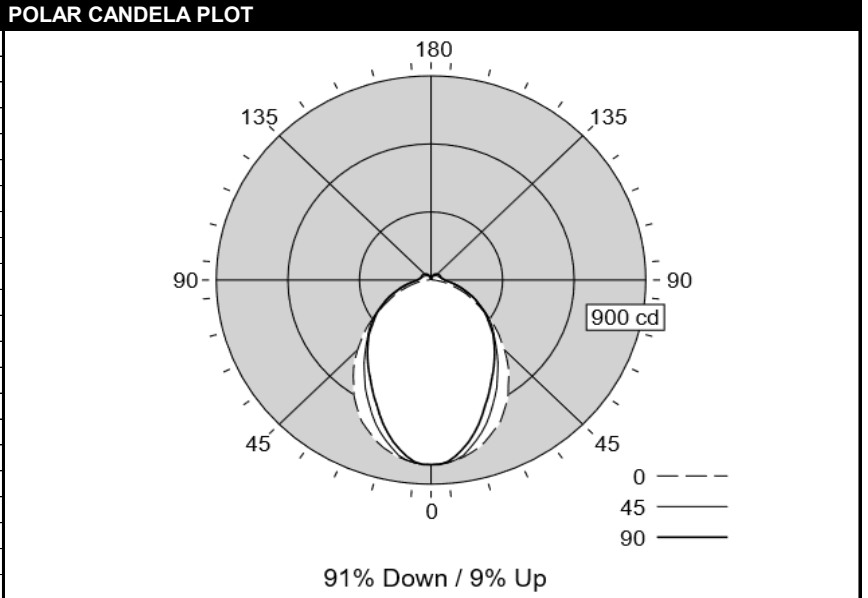


# LEDALITE - TG SUSPENDED/SURFACE/WALL MICRO

<b>TEST DATE:</b>	05 Oct 2022	<b>CATALOG NO:</b>	TMx1L9T2DNNNN20NNN-30
<b>Lamp Type:</b>	LED	<b>Description:</b>	DROP 2000LM DOWN TW-30
<b>No. of Lamps:</b>	192		
<b>Rated Lamp Lumens:</b>	-1	<b>Flux (lm), Efficiency (%):</b>	1999 lm 100%
<b>Input Watts:</b>	277 VAC 17.6	<b>Up/Dn Ratio, Efficacy (lm/W):</b>	91% Down / 9% Up 113.6
<b>CIE-IES Classification:</b>	Direct	<b>Report:</b>	LNG10322

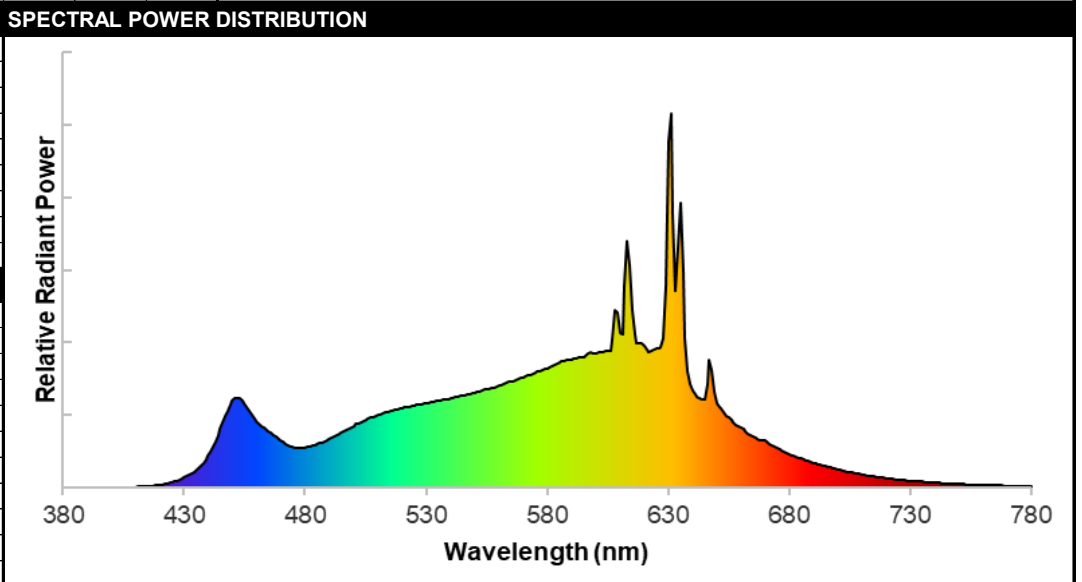
CANDELA DISTRIBUTION						Flux
	0	22.5	45	67.5	90	Lumens
0	814	814	814	814	814	
5	808	807	809	803	804	76
15	766	758	732	698	699	205
25	688	656	611	569	567	283
35	565	530	488	458	460	312
45	435	404	380	368	372	300
55	300	280	297	278	287	258
65	182	185	209	204	205	196
75	87	107	134	128	127	126
85	22	48	75	72	71	68
90	9	32	56	58	56	
95	8	31	49	53	50	44
105	5	24	40	44	44	35
115	4	20	36	42	43	30
125	4	17	31	39	41	24
135	4	13	26	35	37	18
145	4	10	21	30	32	12
155	4	7	15	23	25	7
165	5	6	8	13	14	3
175	5	5	5	6	5	1
180	5	5	5	5	5	



CHARACTERISTICS					COEFFICIENTS OF UTILIZATION (%)														
RP1					None		Pc---	80				70			50			0	
Direct: Peak Candela & Angle (0°)			814.1	0.0		Pw---	70	50	30	10	70	50	30	50	30	10	0		
Direct: Peak Candela & Angle (90°)			814.1	0.0		RCR													
Spacing Criteria (0°, 90°, 180°)		1.16	0.97	N/A	0	117	117	117	117	113	113	113	106	106	106	91			
Beam (H, V), Field (H, V)		81.8	93.9	166.3	151.8	1	106	102	97	93	103	98	94	93	89	86	76		
Indirect: Peak Candela & Angle(°)			56.3	90.0	2	97	89	82	76	94	86	80	81	76	72	63			
Indirect: Zenith Candela, Peak to Zenith			4.9	11.49	3	89	78	70	64	86	76	69	72	66	61	54			
Luminous Width, Length, Height (ft)		0.14	4.00	0.08	4	82	70	61	55	79	68	60	64	58	52	47			
DLC, UGR (4H x 8H, 1.0H), MDER			N/A	22.9	0.526	5	75	63	54	48	72	61	53	58	51	46	41		
x, y, CCT, D <sub>uv</sub>		0.4330	0.3946	2988	-0.0033	6	70	57	48	42	67	55	47	53	46	40	36		
CRI (R <sub>a</sub> ), R <sub>g</sub> , G <sub>a</sub> , C <sub>g</sub>		94	63	100	94	7	65	52	43	37	62	50	42	48	41	36	32		
TM-30-18 R <sub>f</sub> , R <sub>f,h1</sub> , R <sub>g</sub> , R <sub>g,h1</sub>		92	91	100	-5%	8	60	47	39	33	58	46	38	44	37	32	29		
120V: P(W), I(A), THD(%), PF		17.6	0.149	14.0	0.983	9	57	44	36	30	55	43	35	41	34	29	26		
277V: P(W), I(A), THD(%), PF		17.6	0.079	16.8	0.808	10	53	40	33	27	51	39	32	38	31	27	24		
347V: P(W), I(A), THD(%), PF		0.0	0.000	0.0	0.000	*Based on a floor reflectance of 0.2													

\*Based on a floor reflectance of 0.2

ZONAL LUMENS (lm)			
Zone	Lumens	%Fixture	%Lamp
0-30	564	28.2%	28.2%
0-40	876	43.8%	43.8%
0-60	1434	71.7%	71.7%
0-90	1825	91.3%	91.3%
90-130	134	6.7%	6.7%
90-150	164	8.2%	8.2%
90-180	174	8.7%	8.7%
0-180	1999	100.0%	100.0%

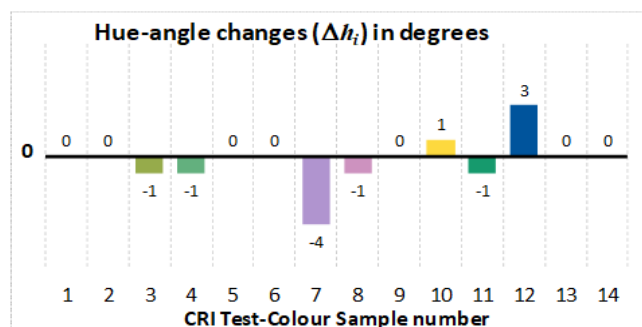
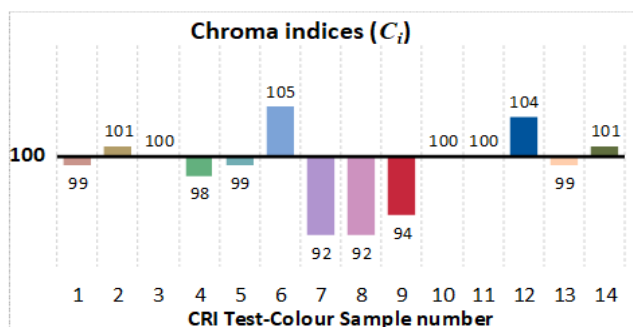
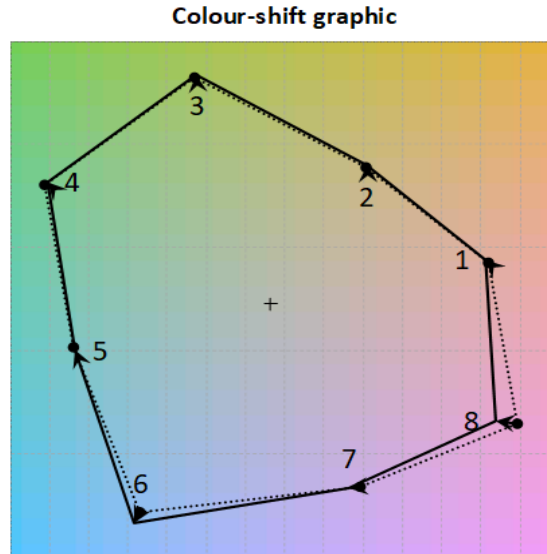
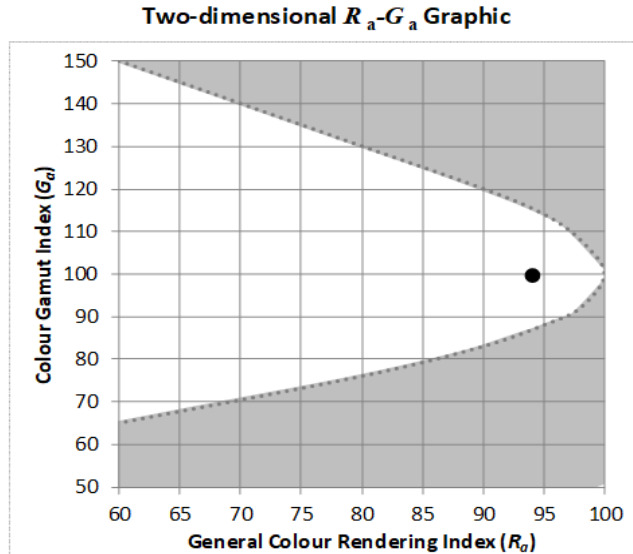
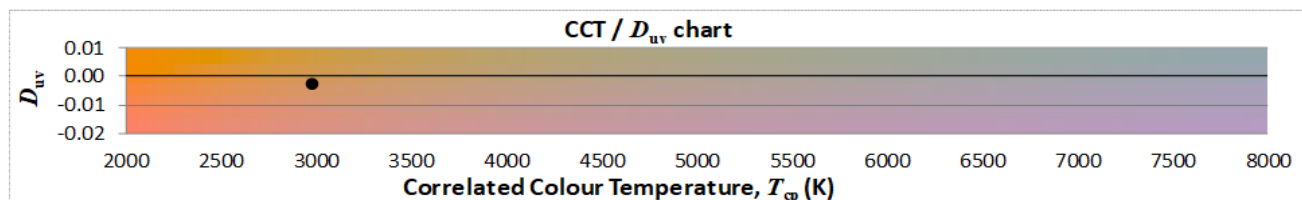
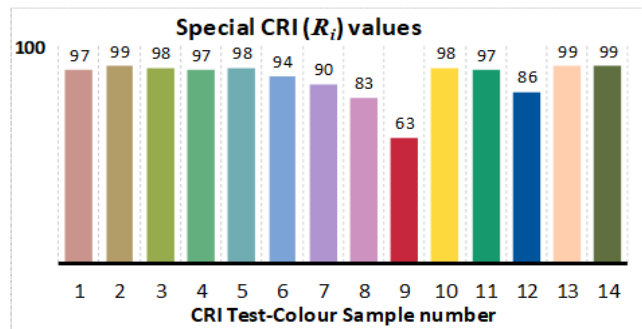
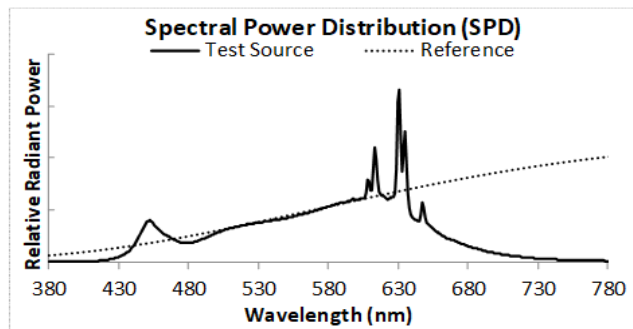


AVG LUMINANCE (cd/m <sup>2</sup> )			
	0	45	90
0	15642	15642	15642
5	15563	15053	14774
15	15162	13096	12055
25	14453	10831	9483
35	13067	8849	7705
45	11599	7281	6433
55	9758	6237	5290
65	7913	5017	4190
75	6017	3870	3019
85	4019	2842	2081

# Output of GLA Calculation Tool for CIE 13.3 CRI and Associated CRI-based Colour Rendition Properties

Test Number:	TGSM TW 3000K	Manufacturer:	Ledalite by Signify
Date:	1 Jun 2022	Model:	TruGroove Suspended Micro

Correlated Colour Temperature ( $T_{cp}$ ) in K	2988	CIE1931 chromaticity coordinate, $x$	0.4330
Distance to Blackbody Locus ( $D_{uv}$ )	-0.0033	CIE1931 chromaticity coordinate, $y$	0.3946
General Colour Rendering Index ( $R_a$ )	94	CIE1976 chromaticity coordinate, $u'$	0.2522
Red Rendering Index ( $R_9$ )	63	CIE1976 chromaticity coordinate, $v'$	0.5170
Colour Gamut Index ( $G_a$ )	100		
Red Chroma Index ( $C_9$ )	94		



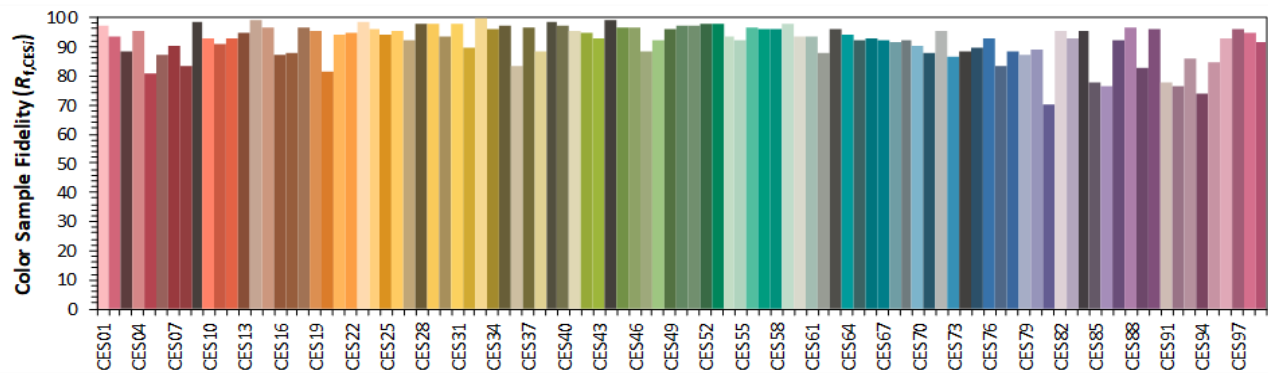
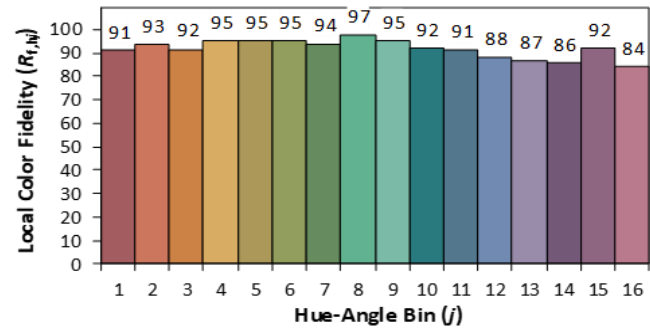
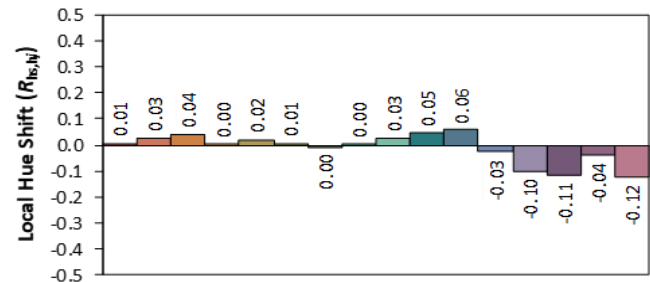
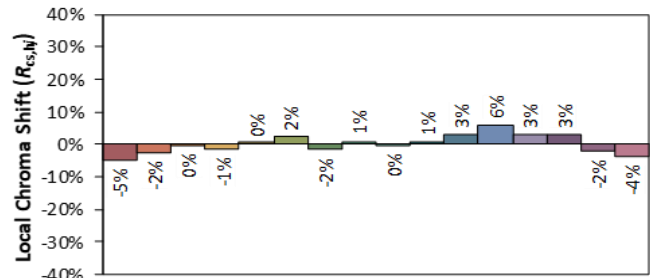
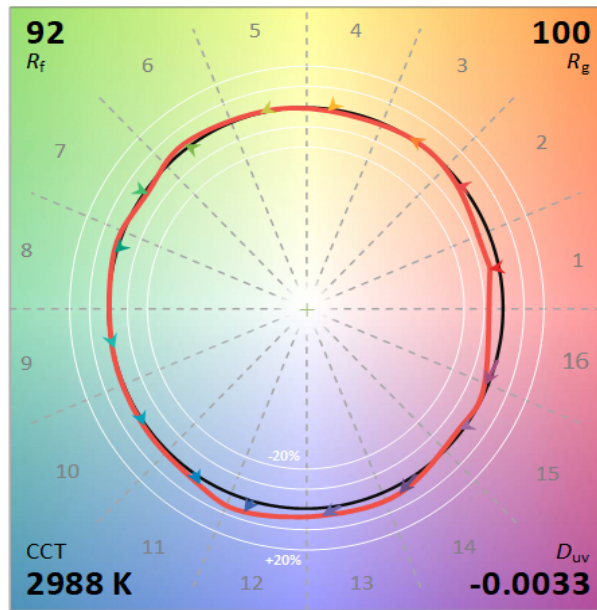
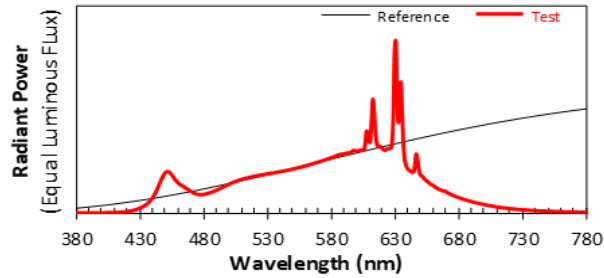
# ANSI/IES TM-30-18 Color Rendition Report

Source: TGSM TW 3000K

Date: 01 Jun 2022

Manufacturer: Ledalite by Signify

Model: TruGroove Suspended Micro



Notes: This is a recommended method for displaying ANSI/IES TM-30-18 information.

$x$  0.4330

$y$  0.3946

$u'$  0.2522

$v'$  0.5170

SPECTRAL POWER DISTRIBUTION																	
λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD	λ (nm)	SPD
380	0.00010	425	0.00150	470	0.01310	515	0.02100	560	0.02810	605	0.03760	650	0.02320	695	0.00590	740	0.00140
381	0.00000	426	0.00170	471	0.01260	516	0.02130	561	0.02830	606	0.03780	651	0.02230	696	0.00570	741	0.00130
382	0.00010	427	0.00190	472	0.01210	517	0.02140	562	0.02850	607	0.04090	652	0.02180	697	0.00550	742	0.00130
383	0.00010	428	0.00210	473	0.01180	518	0.02160	563	0.02870	608	0.04890	653	0.02090	698	0.00540	743	0.00120
384	0.00000	429	0.00240	474	0.01150	519	0.02180	564	0.02910	609	0.04810	654	0.01990	699	0.00520	744	0.00120
385	0.00010	430	0.00270	475	0.01120	520	0.02190	565	0.02920	610	0.04270	655	0.01930	700	0.00500	745	0.00120
386	0.00010	431	0.00300	476	0.01110	521	0.02210	566	0.02940	611	0.04230	656	0.01880	701	0.00490	746	0.00110
387	0.00010	432	0.00340	477	0.01090	522	0.02220	567	0.02970	612	0.05570	657	0.01800	702	0.00470	747	0.00110
388	0.00010	433	0.00380	478	0.01090	523	0.02230	568	0.02990	613	0.06810	658	0.01730	703	0.00450	748	0.00110
389	0.00010	434	0.00420	479	0.01090	524	0.02250	569	0.03020	614	0.06120	659	0.01690	704	0.00440	749	0.00100
390	0.00010	435	0.00470	480	0.01100	525	0.02270	570	0.03040	615	0.04900	660	0.01660	705	0.00430	750	0.00100
391	0.00010	436	0.00540	481	0.01120	526	0.02280	571	0.03070	616	0.04230	661	0.01610	706	0.00410	751	0.00100
392	0.00010	437	0.00600	482	0.01130	527	0.02290	572	0.03090	617	0.03990	662	0.01540	707	0.00400	752	0.00090
393	0.00010	438	0.00680	483	0.01150	528	0.02310	573	0.03110	618	0.03960	663	0.01500	708	0.00390	753	0.00090
394	0.00010	439	0.00770	484	0.01180	529	0.02310	574	0.03140	619	0.03980	664	0.01450	709	0.00380	754	0.00090
395	0.00010	440	0.00870	485	0.01200	530	0.02340	575	0.03160	620	0.03890	665	0.01410	710	0.00360	755	0.00080
396	0.00010	441	0.01000	486	0.01230	531	0.02340	576	0.03190	621	0.03820	666	0.01380	711	0.00350	756	0.00080
397	0.00010	442	0.01120	487	0.01250	532	0.02360	577	0.03210	622	0.03740	667	0.01350	712	0.00340	757	0.00080
398	0.00010	443	0.01270	488	0.01280	533	0.02370	578	0.03240	623	0.03770	668	0.01320	713	0.00330	758	0.00080
399	0.00010	444	0.01430	489	0.01310	534	0.02380	579	0.03260	624	0.03820	669	0.01320	714	0.00320	759	0.00080
400	0.00010	445	0.01610	490	0.01350	535	0.02390	580	0.03290	625	0.03840	670	0.01290	715	0.00310	760	0.00070
401	0.00010	446	0.01780	491	0.01380	536	0.02400	581	0.03320	626	0.03850	671	0.01240	716	0.00300	761	0.00070
402	0.00010	447	0.01970	492	0.01410	537	0.02420	582	0.03350	627	0.03860	672	0.01190	717	0.00290	762	0.00070
403	0.00010	448	0.02130	493	0.01450	538	0.02430	583	0.03380	628	0.04120	673	0.01150	718	0.00280	763	0.00070
404	0.00010	449	0.02280	494	0.01490	539	0.02450	584	0.03400	629	0.05580	674	0.01120	719	0.00270	764	0.00060
405	0.00010	450	0.02380	495	0.01520	540	0.02470	585	0.03430	630	0.09540	675	0.01080	720	0.00260	765	0.00060
406	0.00010	451	0.02450	496	0.01560	541	0.02480	586	0.03470	631	0.10310	676	0.01040	721	0.00260	766	0.00060
407	0.00020	452	0.02480	497	0.01600	542	0.02490	587	0.03490	632	0.07530	677	0.01010	722	0.00250	767	0.00060
408	0.00020	453	0.02460	498	0.01640	543	0.02500	588	0.03500	633	0.05420	678	0.00980	723	0.00240	768	0.00060
409	0.00020	454	0.02400	499	0.01670	544	0.02520	589	0.03520	634	0.06600	679	0.00950	724	0.00230	769	0.00060
410	0.00020	455	0.02320	500	0.01710	545	0.02530	590	0.03530	635	0.07830	680	0.00930	725	0.00220	770	0.00050
411	0.00020	456	0.02210	501	0.01750	546	0.02550	591	0.03550	636	0.05940	681	0.00900	726	0.00220	771	0.00050
412	0.00030	457	0.02100	502	0.01780	547	0.02570	592	0.03570	637	0.04100	682	0.00870	727	0.00210	772	0.00050
413	0.00030	458	0.01990	503	0.01810	548	0.02580	593	0.03580	638	0.03210	683	0.00850	728	0.00200	773	0.00050
414	0.00030	459	0.01910	504	0.01850	549	0.02600	594	0.03590	639	0.02850	684	0.00820	729	0.00190	774	0.00050
415	0.00040	460	0.01830	505	0.01870	550	0.02620	595	0.03600	640	0.02680	685	0.00800	730	0.00190	775	0.00050
416	0.00050	461	0.01750	506	0.01900	551	0.02640	596	0.03630	641	0.02590	686	0.00770	731	0.00180	776	0.00050
417	0.00050	462	0.01700	507	0.01930	552	0.02660	597	0.03710	642	0.02520	687	0.00750	732	0.00180	777	0.00040
418	0.00060	463	0.01650	508	0.01950	553	0.02680	598	0.03750	643	0.02480	688	0.00730	733	0.00170	778	0.00040
419	0.00070	464	0.01600	509	0.01980	554	0.02690	599	0.03710	644	0.02440	689	0.00710	734	0.00170	779	0.00040
420	0.00080	465	0.01550	510	0.02000	555	0.02710	600	0.03710	645	0.02440	690	0.00690	735	0.00160	780	0.00040
421	0.00090	466	0.01500	511	0.02020	556	0.02730	601	0.03720	646	0.02840	691	0.00660	736	0.00160		
422	0.00100	467	0.01450	512	0.02050	557	0.02750	602	0.03730	647	0.03520	692	0.00640	737	0.00150		
423	0.00120	468	0.01410	513	0.02070	558	0.02760	603	0.03750	648	0.03230	693	0.00620	738	0.00150		
424	0.00130	469	0.01360	514	0.02090	559	0.02800	604	0.03760	649	0.02640	694	0.00610	739	0.00140		

UNIFIED GLARE RATING											
Reflectances											
Ceiling Cavity	70	70	50	50	30	70	70	50	50	30	
Walls	50	30	50	30	30	50	30	50	30	30	
Floor Cavity	20	20	20	20	20	20	20	20	20	20	
Room Size	UGR Viewed Crosswise					UGR Viewed Endwise					
X=2H	Y=2H	16.6	18.0	17.1	18.5	19.0	17.9	19.3	18.4	19.8	20.3
	3H	17.9	19.1	18.4	19.7	20.2	19.9	21.2	20.4	21.7	22.2
	4H	18.3	19.5	18.8	20.0	20.6	20.8	21.9	21.3	22.5	23.1
	6H	18.5	19.6	19.0	20.1	20.7	21.5	22.7	22.1	23.2	23.8
	8H	18.5	19.6	19.1	20.2	20.8	22.0	23.0	22.5	23.6	24.2
4H	12H	18.5	19.6	19.1	20.1	20.8	22.4	23.4	22.9	23.9	24.6
	2H	17.3	18.5	17.9	19.0	19.6	18.3	19.5	18.9	20.1	20.6
	3H	18.8	19.8	19.4	20.4	21.0	20.5	21.5	21.1	22.1	22.7
	4H	19.3	20.2	19.9	20.8	21.5	21.5	22.4	22.1	23.0	23.6
	6H	19.7	20.5	20.3	21.1	21.7	22.4	23.2	23.0	23.8	24.5
8H	8H	19.7	20.5	20.3	21.1	21.8	22.9	23.7	23.5	24.3	24.9
	12H	19.8	20.5	20.4	21.1	21.8	23.4	24.1	24.0	24.7	25.4
	4H	19.8	20.5	20.4	21.1	21.8	21.7	22.4	22.3	23.0	23.7
	6H	20.3	20.9	20.9	21.6	22.2	22.8	23.4	23.4	24.0	24.7
	8H	20.4	21.0	21.1	21.7	22.3	23.3	23.9	24.0	24.6	25.2
12H	12H	20.5	21.1	21.2	21.7	22.4	24.0	24.5	24.6	25.1	25.9
	4H	19.9	20.5	20.5	21.2	21.8	21.7	22.4	22.3	23.0	23.7
	6H	20.4	21.0	21.1	21.6	22.4	22.8	23.4	23.5	24.0	24.7
	8H	20.7	21.2	21.3	21.8	22.6	23.4	23.9	24.1	24.6	25.3

The UGR values have been calculated according to CIE Publ. 117.

Spacing-to-Height-Ratio = 1.00.

The highlighted value refers to the UGR value which the luminaire would have in a reference situation with room dimensions of 4H/8H and degrees of reflectance of 20% for the floor, 50% for the walls and 70% for the ceiling, as recommended by DLC.

The UGR value may vary depending on application specific parameters.