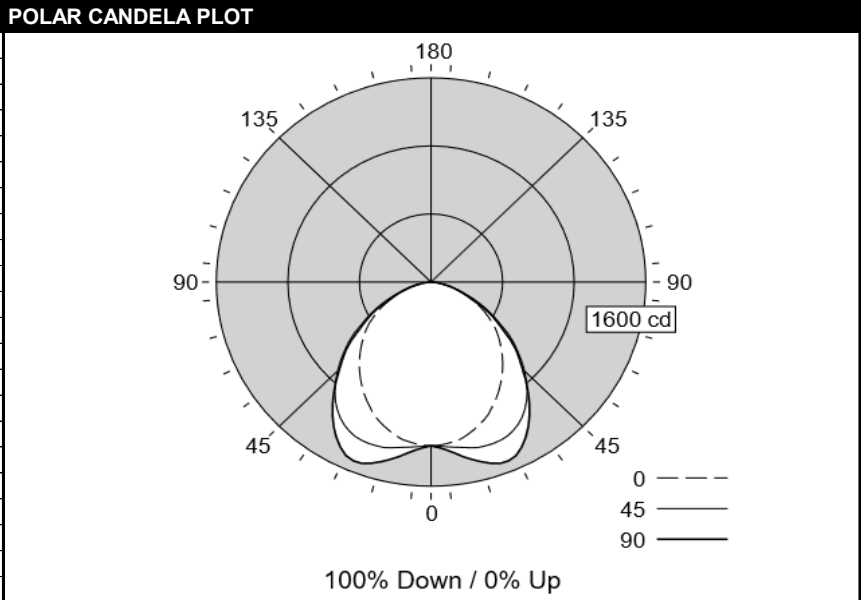


# LEDALITE - TG SUSPENDED/SURFACE/WALL MICRO

<b>TEST DATE:</b>	10 Jun 2022	<b>CATALOG NO:</b>	TMx1L9T2QNNNN40NNN-27
<b>Lamp Type:</b>	LED	<b>Description:</b>	MESO 4000LM DOWN TW-27
<b>No. of Lamps:</b>	192		
<b>Rated Lamp Lumens:</b>	-1	<b>Flux (lm), Efficiency (%):</b>	3751 lm 100%
<b>Input Watts:</b>	120 VAC 43.0	<b>Up/Dn Ratio, Efficacy (lm/W):</b>	100% Down / 0% Up 87.2
<b>CIE-IES Classification:</b>	Direct	<b>Report:</b>	LNG08886

CANDELA DISTRIBUTION						Flux
	0	22.5	45	67.5	90	Lumens
0	1284	1284	1284	1284	1284	
5	1274	1281	1296	1307	1322	124
15	1205	1245	1344	1420	1459	378
25	1079	1168	1336	1474	1501	605
35	918	1034	1219	1327	1279	729
45	741	843	986	1028	964	716
55	561	622	700	708	657	589
65	353	385	406	415	357	387
75	160	173	168	182	165	184
85	28	33	31	38	28	41
90	0	0	0	0	0	
95	0	0	0	0	0	0
105	0	0	0	0	0	0
115	0	0	0	0	0	0
125	0	0	0	0	0	0
135	0	0	0	0	0	0
145	0	0	0	0	0	0
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

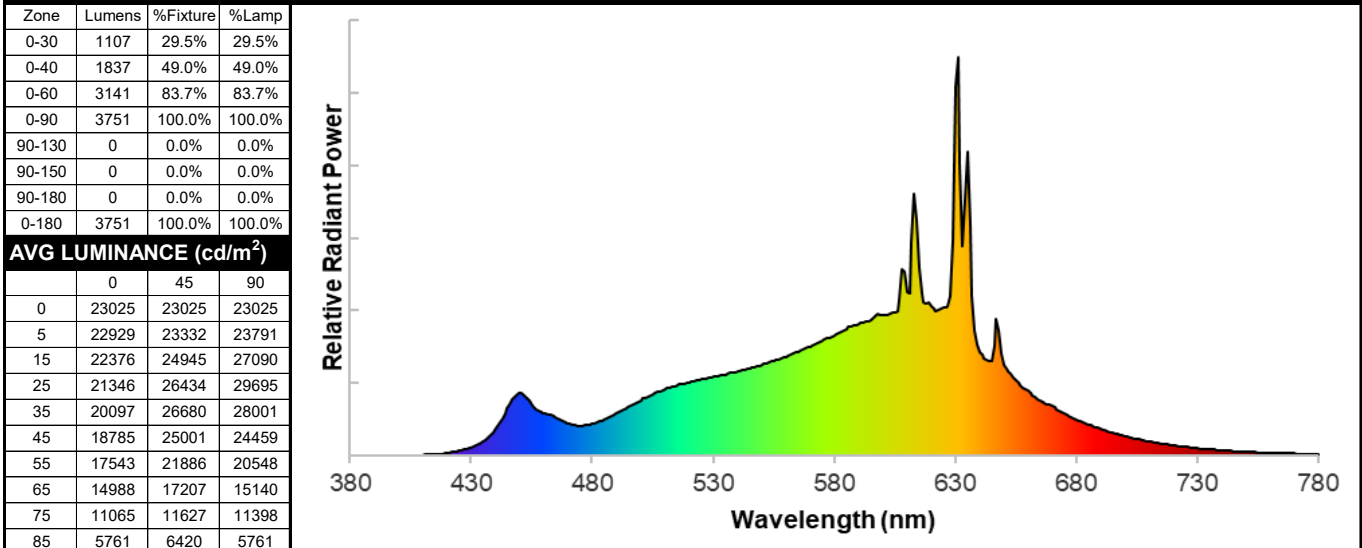


CHARACTERISTICS						COEFFICIENTS OF UTILIZATION (%)											
RP1	None					Pc---	80				70			50			0
Direct: Peak Candela & Angle (0°)	1283.9	0.0				Pw---	70	50	30	10	70	50	30	50	30	10	0
Direct: Peak Candela & Angle (90°)	1515.8	22.5				RCR											
Spacing Criteria (0°, 90°, 180°)	1.17	1.48	N/A			0	119	119	119	119	116	116	116	111	111	111	100
Beam (H, V), Field (H, V)	103.6	93.1	151.9	150.4		1	110	105	101	98	107	103	99	99	96	93	85
Indirect: Peak Candela & Angle(°)	N/A	N/A				2	100	92	86	81	98	91	85	87	82	78	72
Indirect: Zenith Candela, Peak to Zenith	N/A	N/A				3	92	82	74	68	89	80	73	77	71	66	61
Luminous Width, Length, Height (ft)	0.15	4.00	0.00			4	84	73	64	58	82	71	63	69	62	56	53
DLC, UGR (4H x 8H, 1.0H), MDER	N/A	25.5	0.449			5	77	65	56	50	75	64	56	62	55	49	46
x, y, CCT, D <sub>uv</sub>	0.4585	0.4083	2702	-0.0007		6	72	59	50	44	70	58	49	56	49	43	40
CRI (R <sub>a</sub> ), R <sub>g</sub> , G <sub>a</sub> , C <sub>g</sub>	94	54	98	92		7	66	53	45	39	65	52	44	51	44	38	36
TM-30-18 R <sub>f</sub> , R <sub>h</sub> , R <sub>g</sub> , R <sub>sc,h</sub>	92	90	99	-6%		8	62	49	40	34	60	48	40	47	39	34	32
120V: P(W), I(A), THD(%), PF	43.0	0.363	5.4	0.988		9	58	45	36	31	56	44	36	43	36	31	29
277V: P(W), I(A), THD(%), PF	42.6	0.161	10.4	0.957		10	54	41	33	28	53	41	33	40	33	28	26
347V: P(W), I(A), THD(%), PF	0.0	0.000	0.0	0.000		*Based on a floor reflectance of 0.2											

## ZONAL LUMENS (lm)

Zone	Lumens	%Fixture	%Lamp
0-30	1107	29.5%	29.5%
0-40	1837	49.0%	49.0%
0-60	3141	83.7%	83.7%
0-90	3751	100.0%	100.0%
90-130	0	0.0%	0.0%
90-150	0	0.0%	0.0%
90-180	0	0.0%	0.0%
0-180	3751	100.0%	100.0%

## SPECTRAL POWER DISTRIBUTION



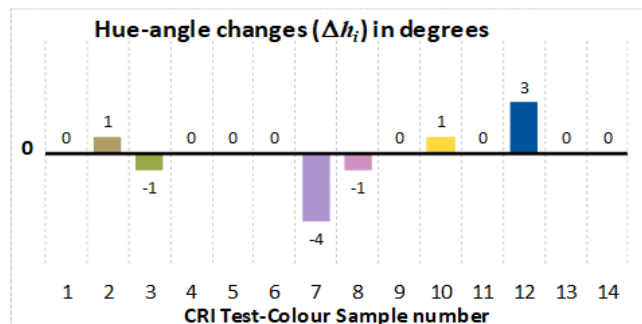
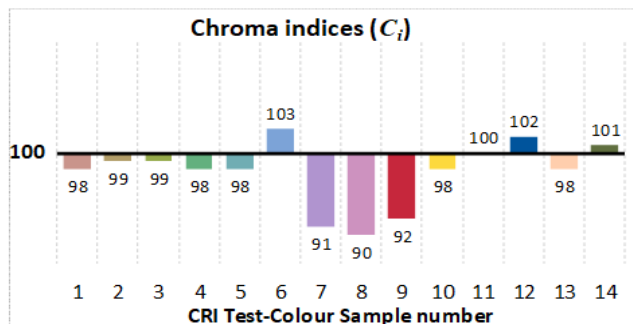
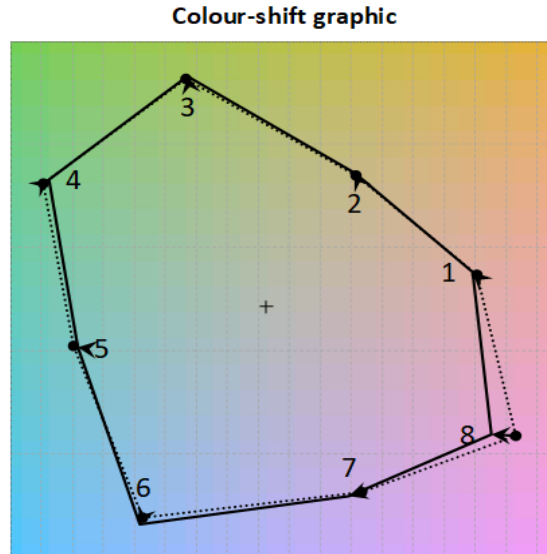
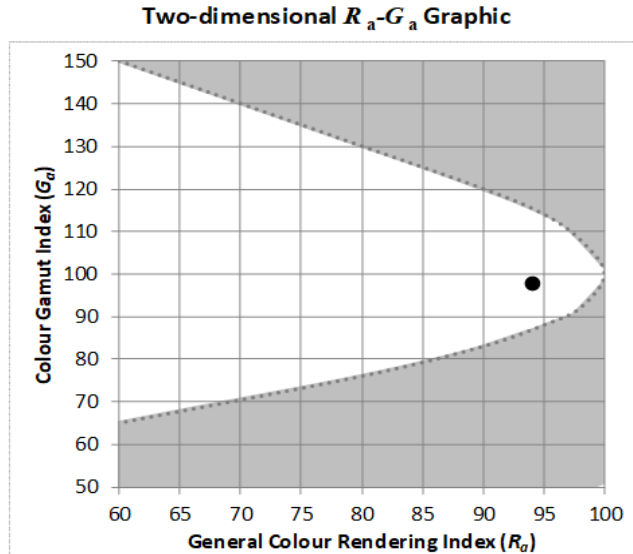
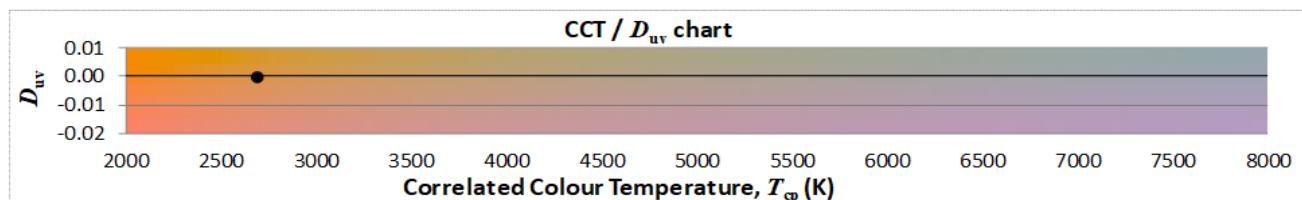
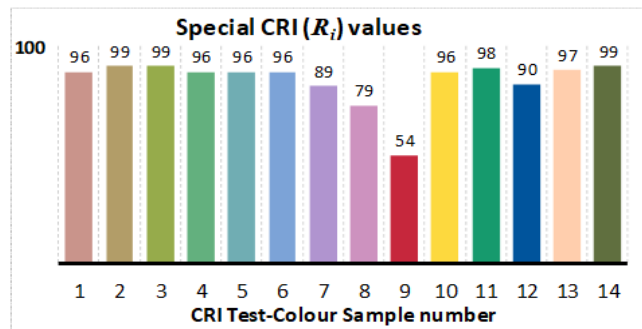
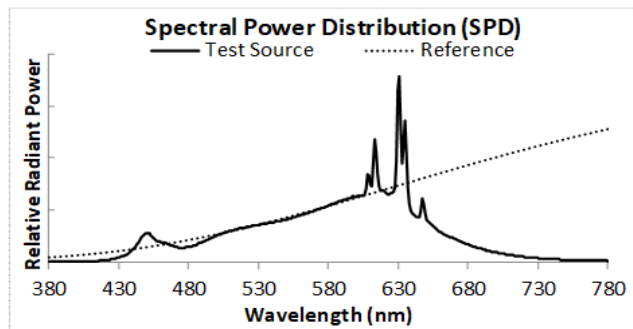
## AVG LUMINANCE (cd/m²)

	0	45	90
0	23025	23025	23025
5	22929	23332	23791
15	22376	24945	27090
25	21346	26434	29695
35	20097	26680	28001
45	18785	25001	24459
55	17543	21886	20548
65	14988	17207	15140
75	11065	11627	11398
85	5761	6420	5761

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

Test Number:	TGSM TW 2700K	Manufacturer:	Ledalite by Signify
Date:	1 Jun 2022	Model:	TruGroove Suspended Micro

Correlated Colour Temperature ( $T_{cp}$ ) in K	2702	CIE1931 chromaticity coordinate, $x$	0.4585
Distance to Blackbody Locus ( $D_{uv}$ )	-0.0007	CIE1931 chromaticity coordinate, $y$	0.4083
General Colour Rendering Index ( $R_a$ )	94	CIE1976 chromaticity coordinate, $u'$	0.2626
Red Rendering Index ( $R_9$ )	54	CIE1976 chromaticity coordinate, $v'$	0.5263
Colour Gamut Index ( $G_a$ )	98		
Red Chroma Index ( $C_9$ )	92		



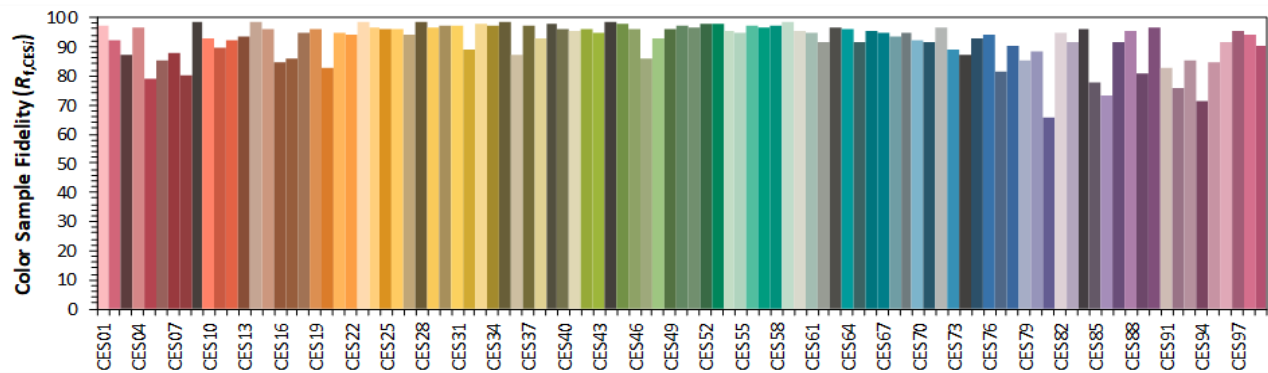
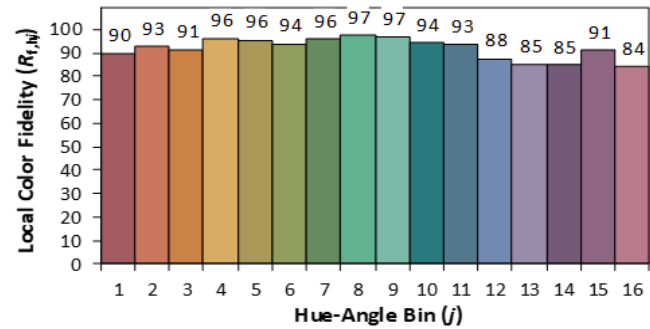
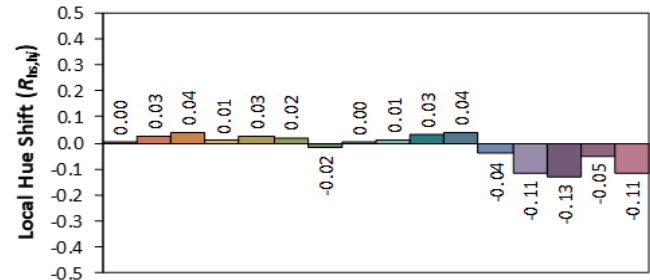
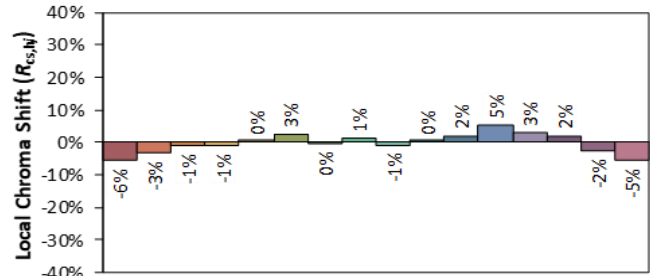
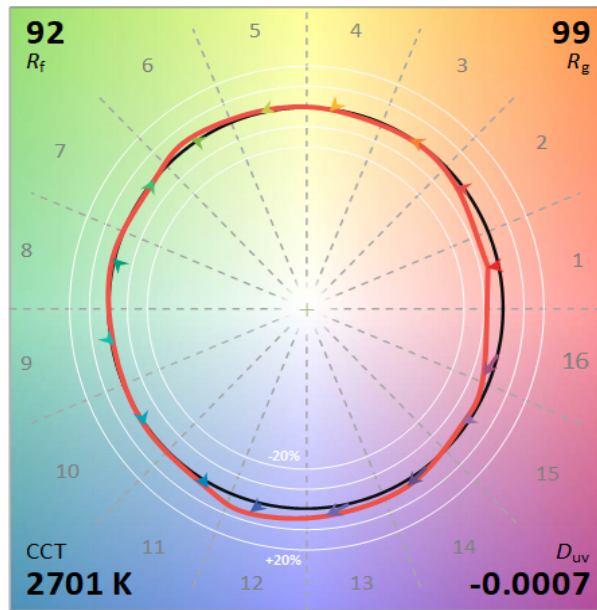
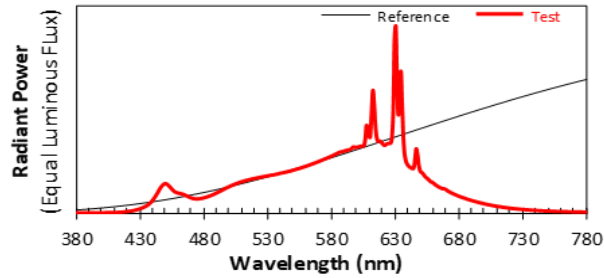
# ANSI/IES TM-30-18 Color Rendition Report

Source: TGSM TW 2700K

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.

$x$  0.4585

$y$  0.4083

$u'$  0.2626

$v'$  0.5263

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	0.00130	470	0.00900	515	0.01930	560	0.02730	605	0.03930	650	0.02490	695	0.00640	740	0.00150
381	0.00000	426	0.00150	471	0.00870	516	0.01960	561	0.02760	606	0.03960	651	0.02390	696	0.00610	741	0.00140
382	0.00010	427	0.00160	472	0.00840	517	0.01970	562	0.02780	607	0.04290	652	0.02340	697	0.00600	742	0.00140
383	0.00010	428	0.00180	473	0.00830	518	0.01990	563	0.02800	608	0.05140	653	0.02240	698	0.00580	743	0.00130
384	0.00000	429	0.00210	474	0.00820	519	0.02010	564	0.02850	609	0.05070	654	0.02140	699	0.00560	744	0.00130
385	0.00010	430	0.00230	475	0.00810	520	0.02020	565	0.02860	610	0.04500	655	0.02070	700	0.00540	745	0.00120
386	0.00010	431	0.00250	476	0.00830	521	0.02040	566	0.02890	611	0.04460	656	0.02010	701	0.00530	746	0.00120
387	0.00010	432	0.00280	477	0.00830	522	0.02060	567	0.02930	612	0.05880	657	0.01940	702	0.00510	747	0.00120
388	0.00010	433	0.00320	478	0.00840	523	0.02070	568	0.02950	613	0.07210	658	0.01860	703	0.00490	748	0.00110
389	0.00010	434	0.00350	479	0.00850	524	0.02090	569	0.02980	614	0.06480	659	0.01820	704	0.00470	749	0.00110
390	0.00010	435	0.00390	480	0.00870	525	0.02100	570	0.03010	615	0.05190	660	0.01780	705	0.00460	750	0.00100
391	0.00010	436	0.00440	481	0.00900	526	0.02120	571	0.03040	616	0.04470	661	0.01730	706	0.00450	751	0.00110
392	0.00010	437	0.00490	482	0.00920	527	0.02130	572	0.03070	617	0.04230	662	0.01660	707	0.00430	752	0.00100
393	0.00010	438	0.00550	483	0.00940	528	0.02150	573	0.03100	618	0.04200	663	0.01610	708	0.00420	753	0.00100
394	0.00010	439	0.00620	484	0.00970	529	0.02150	574	0.03130	619	0.04220	664	0.01560	709	0.00410	754	0.00090
395	0.00010	440	0.00710	485	0.00990	530	0.02180	575	0.03160	620	0.04130	665	0.01510	710	0.00390	755	0.00090
396	0.00010	441	0.00810	486	0.01020	531	0.02180	576	0.03190	621	0.04050	666	0.01480	711	0.00380	756	0.00090
397	0.00010	442	0.00910	487	0.01050	532	0.02200	577	0.03220	622	0.03970	667	0.01450	712	0.00360	757	0.00080
398	0.00010	443	0.01030	488	0.01080	533	0.02210	578	0.03250	623	0.04010	668	0.01420	713	0.00360	758	0.00080
399	0.00010	444	0.01160	489	0.01120	534	0.02230	579	0.03290	624	0.04060	669	0.01420	714	0.00350	759	0.00080
400	0.00010	445	0.01290	490	0.01160	535	0.02230	580	0.03320	625	0.04080	670	0.01390	715	0.00330	760	0.00080
401	0.00010	446	0.01410	491	0.01190	536	0.02250	581	0.03360	626	0.04100	671	0.01340	716	0.00320	761	0.00080
402	0.00010	447	0.01530	492	0.01230	537	0.02280	582	0.03390	627	0.04110	672	0.01290	717	0.00310	762	0.00070
403	0.00010	448	0.01620	493	0.01270	538	0.02280	583	0.03430	628	0.04390	673	0.01240	718	0.00300	763	0.00070
404	0.00010	449	0.01690	494	0.01310	539	0.02300	584	0.03460	629	0.05940	674	0.01200	719	0.00290	764	0.00070
405	0.00010	450	0.01710	495	0.01340	540	0.02330	585	0.03500	630	0.10150	675	0.01160	720	0.00280	765	0.00070
406	0.00010	451	0.01710	496	0.01380	541	0.02340	586	0.03540	631	0.10990	676	0.01120	721	0.00280	766	0.00060
407	0.00010	452	0.01670	497	0.01420	542	0.02350	587	0.03570	632	0.08040	677	0.01090	722	0.00260	767	0.00060
408	0.00020	453	0.01600	498	0.01460	543	0.02370	588	0.03590	633	0.05780	678	0.01060	723	0.00260	768	0.00060
409	0.00020	454	0.01520	499	0.01500	544	0.02390	589	0.03610	634	0.07040	679	0.01030	724	0.00250	769	0.00060
410	0.00020	455	0.01430	500	0.01530	545	0.02400	590	0.03620	635	0.08360	680	0.01000	725	0.00240	770	0.00060
411	0.00020	456	0.01350	501	0.01570	546	0.02420	591	0.03650	636	0.06340	681	0.00970	726	0.00230	771	0.00060
412	0.00030	457	0.01280	502	0.01600	547	0.02440	592	0.03670	637	0.04380	682	0.00940	727	0.00220	772	0.00050
413	0.00030	458	0.01230	503	0.01630	548	0.02450	593	0.03690	638	0.03440	683	0.00910	728	0.00220	773	0.00050
414	0.00030	459	0.01200	504	0.01670	549	0.02480	594	0.03710	639	0.03050	684	0.00890	729	0.00210	774	0.00050
415	0.00040	460	0.01170	505	0.01690	550	0.02500	595	0.03720	640	0.02870	685	0.00860	730	0.00200	775	0.00050
416	0.00040	461	0.01150	506	0.01720	551	0.02530	596	0.03760	641	0.02770	686	0.00830	731	0.00200	776	0.00050
417	0.00050	462	0.01140	507	0.01750	552	0.02540	597	0.03850	642	0.02690	687	0.00810	732	0.00190	777	0.00050
418	0.00060	463	0.01120	508	0.01780	553	0.02570	598	0.03890	643	0.02650	688	0.00780	733	0.00180	778	0.00050
419	0.00060	464	0.01100	509	0.01810	554	0.02590	599	0.03860	644	0.02610	689	0.00760	734	0.00180	779	0.00050
420	0.00070	465	0.01070	510	0.01830	555	0.02610	600	0.03860	645	0.02610	690	0.00740	735	0.00170	780	0.00040
421	0.00080	466	0.01030	511	0.01850	556	0.02630	601	0.03870	646	0.03040	691	0.00710	736	0.00170		
422	0.00090	467	0.00990	512	0.01870	557	0.02660	602	0.03890	647	0.03770	692	0.00690	737	0.00160		
423	0.00100	468	0.00970	513	0.01900	558	0.02680	603	0.03910	648	0.03460	693	0.00670	738	0.00160		
424	0.00120	469	0.00930	514	0.01920	559	0.02710	604	0.03940	649	0.02830	694	0.00650	739	0.00150		

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	22.0	23.6	22.3	23.9	24.2	22.8	24.3	23.1	24.7	25.0
	3H	23.4	24.8	23.7	25.1	25.5	23.9	25.3	24.3	25.7	26.0
	4H	23.8	25.1	24.2	25.5	25.9	24.3	25.6	24.7	26.0	26.4
	6H	24.0	25.3	24.5	25.6	26.0	24.5	25.8	24.9	26.1	26.5
	8H	24.1	25.3	24.5	25.7	26.1	24.6	25.8	25.0	26.1	26.5
	12H	24.1	25.3	24.6	25.6	26.1	24.6	25.7	25.0	26.1	26.5
4H	2H	22.6	23.9	23.0	24.3	24.7	23.2	24.6	23.6	24.9	25.3
	3H	24.2	25.3	24.6	25.7	26.1	24.6	25.7	25.0	26.1	26.5
	4H	24.7	25.7	25.1	26.1	26.6	25.1	26.1	25.5	26.5	27.0
	6H	25.1	25.9	25.5	26.4	26.8	25.4	26.3	25.9	26.8	27.2
	8H	25.2	26.0	25.6	26.4	26.9	25.5	26.3	26.0	26.8	27.2
	12H	25.2	25.9	25.7	26.4	26.9	25.6	26.3	26.0	26.8	27.2
8H	4H	24.9	25.7	25.4	26.2	26.6	25.3	26.1	25.7	26.5	27.0
	6H	25.4	26.0	25.9	26.5	27.0	25.7	26.4	26.2	26.9	27.3
	8H	25.5	26.1	26.0	26.6	27.1	25.8	26.4	26.3	26.9	27.4
	12H	25.6	26.1	26.1	26.6	27.2	25.9	26.4	26.4	26.9	27.5
12H	4H	24.9	25.7	25.4	26.1	26.6	25.3	26.0	25.8	26.5	27.0
	6H	25.4	26.0	25.9	26.5	27.0	25.7	26.3	26.2	26.8	27.3
	8H	25.6	26.1	26.1	26.6	27.1	25.9	26.4	26.4	26.9	27.4

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.