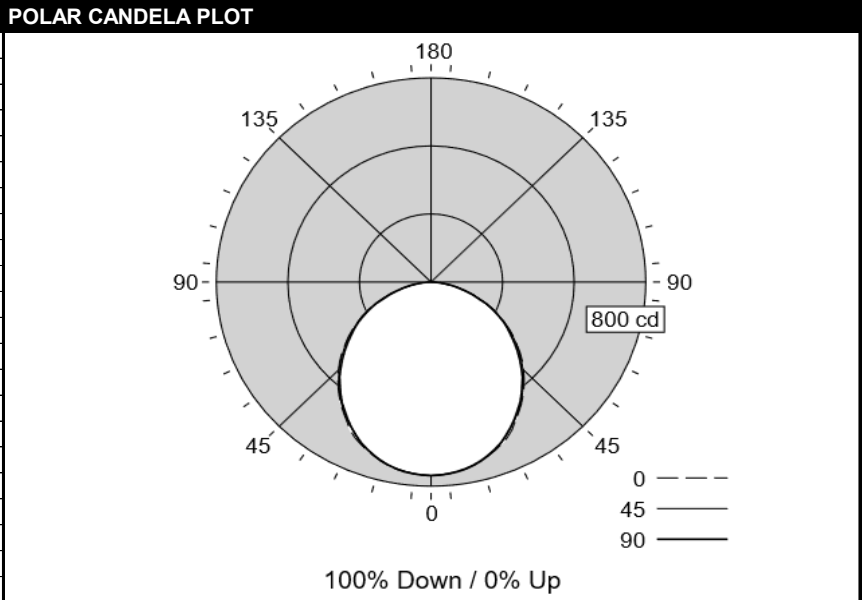


# LEDALITE - TG SUSPENDED/SURFACE/WALL MICRO

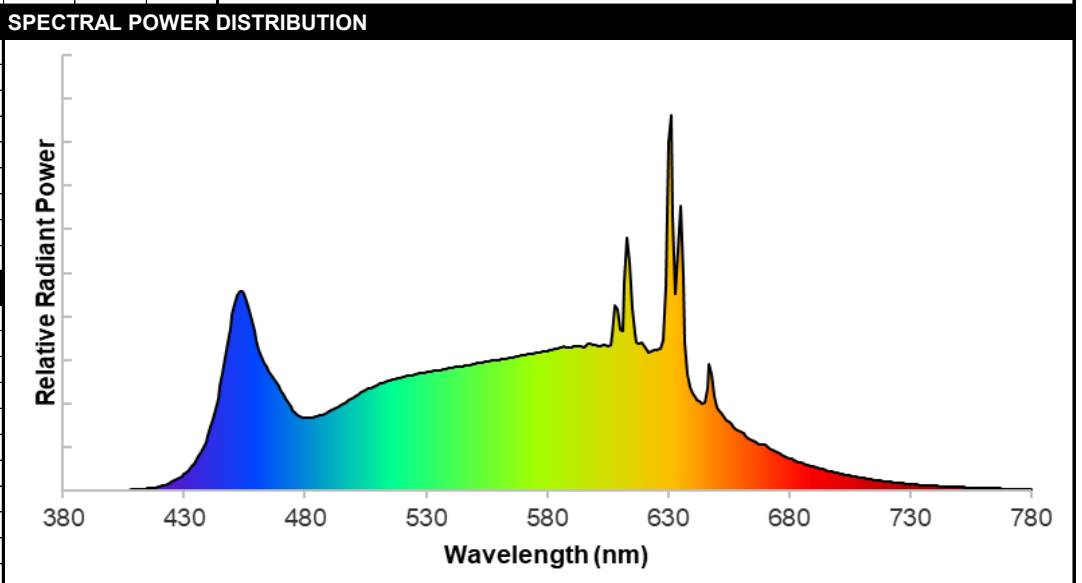
<b>TEST DATE:</b>	10 Jun 2022	<b>CATALOG NO:</b>	TMx1L9T2LNNNN20NNN-40
<b>Lamp Type:</b>	LED	<b>Description:</b>	SILK 2000LM DOWN TW-40
<b>No. of Lamps:</b>	192		
<b>Rated Lamp Lumens:</b>	-1	<b>Flux (lm), Efficiency (%):</b>	2103 lm 100%
<b>Input Watts:</b>	277 VAC 20.3	<b>Up/Dn Ratio, Efficacy (lm/W):</b>	100% Down / 0% Up 103.5
<b>CIE-IES Classification:</b>	Direct	<b>Report:</b>	LNG08891

CANDELA DISTRIBUTION						Flux
	0	22.5	45	67.5	90	Lumens
0	759	759	759	759	759	
5	754	754	754	756	754	72
15	724	726	727	729	724	205
25	673	672	663	671	662	308
35	586	594	582	589	578	367
45	488	497	484	484	476	376
55	377	385	373	379	363	337
65	257	264	254	259	253	255
75	135	142	133	140	128	145
85	33	35	32	38	32	40
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	Meets RP-1-12 recommendations for VDT-Normal spaces					Pc---	80				70			50			0
Direct: Peak Candela & Angle (0°)	758.6		0.0			Pw---	70	50	30	10	70	50	30	50	30	10	0
Direct: Peak Candela & Angle (90°)	758.6		0.0			RCR											
Spacing Criteria (0°, 90°, 180°)	1.23	1.22	N/A			0	119	119	119	119	116	116	116	111	111	111	100
Beam (H, V), Field (H, V)	107.1	109.5	160.9	161.6		1	109	104	100	96	106	102	98	97	94	91	84
Indirect: Peak Candela & Angle(°)	N/A		N/A			2	99	91	84	78	96	89	82	85	80	75	70
Indirect: Zenith Candela, Peak to Zenith	N/A		N/A			3	90	80	71	65	88	78	70	75	68	63	59
Luminous Width, Length, Height (ft)	0.15	4.00	0.00			4	83	70	62	55	80	69	61	67	59	54	50
DLC, UGR (4H x 8H, 1.0H), MDER	N/A	25.0	0.708			5	76	63	54	47	74	62	53	60	52	47	43
x, y, CCT, D <sub>uv</sub>	0.3785	0.3652	3964	-0.0050		6	70	57	48	41	68	56	47	54	46	41	38
CRI (R <sub>a</sub> ), R <sub>g</sub> , G <sub>a</sub> , C <sub>g</sub>	95	76	100	96		7	65	51	43	37	63	51	42	49	42	36	34
TM-30-18 R <sub>f</sub> , R <sub>g</sub> , R <sub>h1</sub> , R <sub>g</sub> , R <sub>cs,h1</sub>	91	91	99	-4%		8	61	47	38	33	59	46	38	45	38	32	30
120V: P(W), I(A), THD(%), PF	20.0	0.170	11.8	0.981		9	57	43	35	29	55	43	35	41	34	29	27
277V: P(W), I(A), THD(%), PF	20.3	0.087	16.1	0.847		10	53	40	32	27	52	39	32	38	31	26	24
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	584	27.8%	27.8%
0-40	951	45.2%	45.2%
0-60	1663	79.1%	79.1%
0-90	2103	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	2103	100.0%	100.0%

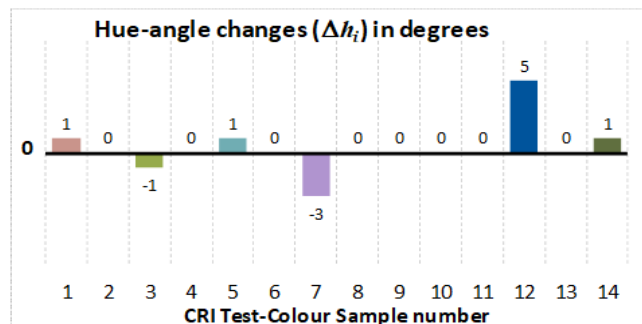
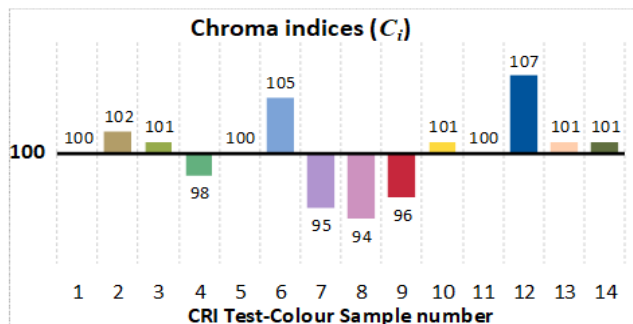
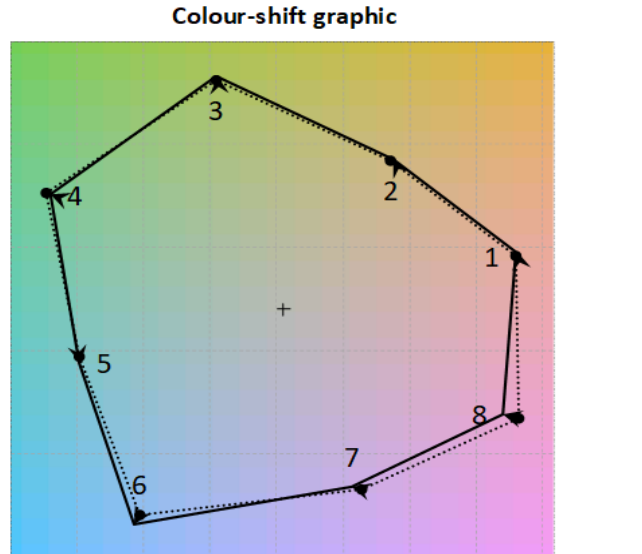
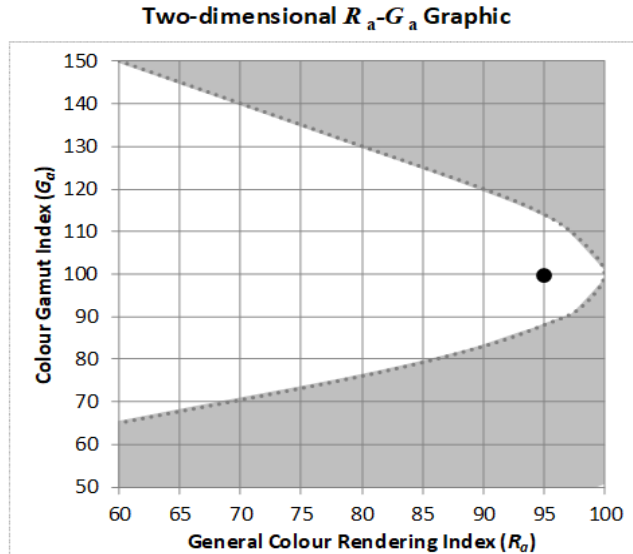
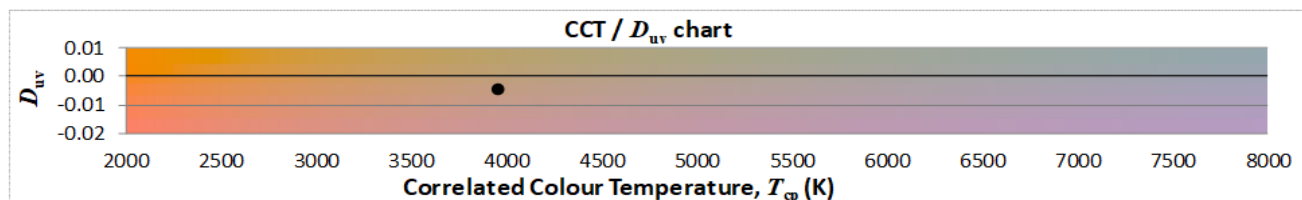
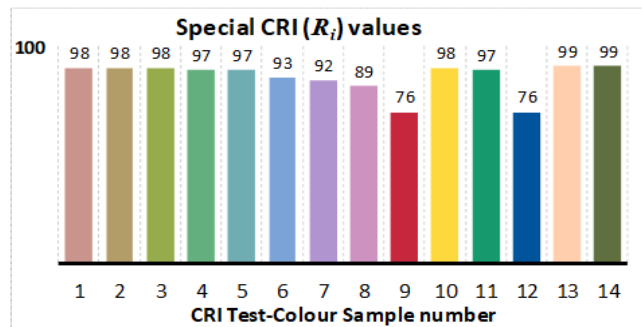
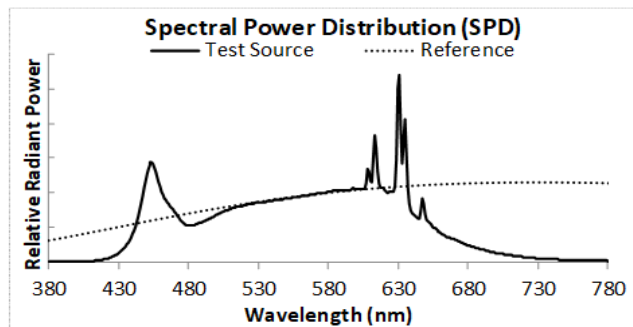


AVG LUMINANCE (cd/m <sup>2</sup> )			
	0	45	90
0	13604	13604	13604
5	13573	13564	13577
15	13447	13488	13436
25	13309	13125	13093
35	12820	12739	12647
45	12364	12285	12059
55	11772	11650	11349
65	10910	10778	10727
75	9375	9209	8862
85	6790	6646	6626

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

Test Number:	TGSM TW 4000K	Manufacturer:	Ledalite by Signify
Date:	1 Jun 2022	Model:	TruGroove Suspended Micro

Correlated Colour Temperature ( $T_{cp}$ ) in K	3964	CIE1931 chromaticity coordinate, $x$	0.3785
Distance to Blackbody Locus ( $D_{uv}$ )	-0.0050	CIE1931 chromaticity coordinate, $y$	0.3652
General Colour Rendering Index ( $R_a$ )	95	CIE1976 chromaticity coordinate, $u'$	0.2286
Red Rendering Index ( $R_9$ )	76	CIE1976 chromaticity coordinate, $v'$	0.4961
Colour Gamut Index ( $G_a$ )	100		
Red Chroma Index ( $C_9$ )	96		



Colors are for visual orientation purposes only. Created with the IES TM-30-18 Calculator Version 2.00.

# 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	0.00190	470	0.02320	515	0.02530	560	0.03000	605	0.03320	650	0.01910	695	0.00470	740	0.00110
381	0.00010	426	0.00220	471	0.02230	516	0.02540	561	0.03020	606	0.03330	651	0.01830	696	0.00460	741	0.00110
382	0.00010	427	0.00260	472	0.02120	517	0.02560	562	0.03030	607	0.03580	652	0.01790	697	0.00440	742	0.00100
383	0.00010	428	0.00290	473	0.02040	518	0.02570	563	0.03030	608	0.04250	653	0.01710	698	0.00430	743	0.00100
384	0.00010	429	0.00330	474	0.01940	519	0.02590	564	0.03060	609	0.04160	654	0.01630	699	0.00420	744	0.00100
385	0.00010	430	0.00380	475	0.01860	520	0.02600	565	0.03060	610	0.03700	655	0.01570	700	0.00400	745	0.00090
386	0.00010	431	0.00430	476	0.01800	521	0.02620	566	0.03060	611	0.03660	656	0.01530	701	0.00390	746	0.00090
387	0.00010	432	0.00480	477	0.01740	522	0.02630	567	0.03090	612	0.04790	657	0.01470	702	0.00380	747	0.00090
388	0.00010	433	0.00550	478	0.01700	523	0.02640	568	0.03090	613	0.05820	658	0.01410	703	0.00370	748	0.00090
389	0.00010	434	0.00610	479	0.01670	524	0.02650	569	0.03100	614	0.05210	659	0.01380	704	0.00350	749	0.00080
390	0.00010	435	0.00690	480	0.01660	525	0.02670	570	0.03110	615	0.04180	660	0.01350	705	0.00340	750	0.00080
391	0.00010	436	0.00780	481	0.01670	526	0.02680	571	0.03120	616	0.03610	661	0.01310	706	0.00330	751	0.00080
392	0.00010	437	0.00880	482	0.01670	527	0.02690	572	0.03130	617	0.03410	662	0.01260	707	0.00320	752	0.00080
393	0.00010	438	0.01000	483	0.01680	528	0.02700	573	0.03140	618	0.03380	663	0.01210	708	0.00310	753	0.00070
394	0.00010	439	0.01130	484	0.01700	529	0.02700	574	0.03150	619	0.03390	664	0.01180	709	0.00300	754	0.00070
395	0.00010	440	0.01270	485	0.01710	530	0.02720	575	0.03160	620	0.03310	665	0.01140	710	0.00290	755	0.00070
396	0.00010	441	0.01460	486	0.01730	531	0.02720	576	0.03170	621	0.03240	666	0.01120	711	0.00280	756	0.00070
397	0.00010	442	0.01640	487	0.01750	532	0.02740	577	0.03180	622	0.03170	667	0.01090	712	0.00270	757	0.00060
398	0.00010	443	0.01870	488	0.01770	533	0.02750	578	0.03190	623	0.03190	668	0.01070	713	0.00270	758	0.00060
399	0.00010	444	0.02120	489	0.01790	534	0.02760	579	0.03200	624	0.03230	669	0.01070	714	0.00260	759	0.00060
400	0.00010	445	0.02410	490	0.01820	535	0.02760	580	0.03210	625	0.03240	670	0.01050	715	0.00250	760	0.00060
401	0.00010	446	0.02710	491	0.01840	536	0.02770	581	0.03230	626	0.03240	671	0.01000	716	0.00240	761	0.00060
402	0.00010	447	0.03060	492	0.01870	537	0.02790	582	0.03240	627	0.03250	672	0.00970	717	0.00230	762	0.00060
403	0.00010	448	0.03390	493	0.01900	538	0.02790	583	0.03260	628	0.03460	673	0.00930	718	0.00230	763	0.00050
404	0.00010	449	0.03730	494	0.01930	539	0.02800	584	0.03260	629	0.04680	674	0.00900	719	0.00220	764	0.00050
405	0.00010	450	0.04040	495	0.01960	540	0.02820	585	0.03280	630	0.08010	675	0.00870	720	0.00210	765	0.00050
406	0.00020	451	0.04290	496	0.02000	541	0.02830	586	0.03300	631	0.08610	676	0.00840	721	0.00210	766	0.00050
407	0.00020	452	0.04480	497	0.02030	542	0.02830	587	0.03300	632	0.06270	677	0.00820	722	0.00200	767	0.00050
408	0.00020	453	0.04580	498	0.02070	543	0.02840	588	0.03300	633	0.04510	678	0.00790	723	0.00190	768	0.00050
409	0.00020	454	0.04580	499	0.02110	544	0.02850	589	0.03300	634	0.05520	679	0.00770	724	0.00190	769	0.00050
410	0.00020	455	0.04510	500	0.02140	545	0.02860	590	0.03300	635	0.06540	680	0.00750	725	0.00180	770	0.00040
411	0.00030	456	0.04340	501	0.02180	546	0.02870	591	0.03310	636	0.04940	681	0.00720	726	0.00170	771	0.00040
412	0.00030	457	0.04130	502	0.02210	547	0.02880	592	0.03300	637	0.03400	682	0.00700	727	0.00170	772	0.00040
413	0.00040	458	0.03890	503	0.02250	548	0.02880	593	0.03300	638	0.02670	683	0.00680	728	0.00160	773	0.00040
414	0.00040	459	0.03670	504	0.02280	549	0.02900	594	0.03300	639	0.02360	684	0.00660	729	0.00160	774	0.00040
415	0.00050	460	0.03450	505	0.02310	550	0.02910	595	0.03300	640	0.02220	685	0.00640	730	0.00150	775	0.00040
416	0.00060	461	0.03230	506	0.02330	551	0.02920	596	0.03310	641	0.02140	686	0.00620	731	0.00150	776	0.00040
417	0.00060	462	0.03090	507	0.02360	552	0.02930	597	0.03370	642	0.02080	687	0.00600	732	0.00140	777	0.00040
418	0.00070	463	0.02940	508	0.02380	553	0.02940	598	0.03390	643	0.02040	688	0.00580	733	0.00140	778	0.00040
419	0.00090	464	0.02840	509	0.02410	554	0.02950	599	0.03350	644	0.02010	689	0.00570	734	0.00130	779	0.00030
420	0.00100	465	0.02750	510	0.02430	555	0.02960	600	0.03330	645	0.02010	690	0.00550	735	0.00130	780	0.00030
421	0.00110	466	0.02660	511	0.02450	556	0.02970	601	0.03330	646	0.02350	691	0.00530	736	0.00130		
422	0.00130	467	0.02570	512	0.02470	557	0.02980	602	0.03330	647	0.02920	692	0.00520	737	0.00120		
423	0.00150	468	0.02510	513	0.02500	558	0.02980	603	0.03330	648	0.02670	693	0.00500	738	0.00120		
424	0.00170	469	0.02420	514	0.02510	559	0.03000	604	0.03340	649	0.02180	694	0.00490	739	0.00110		

# 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	20.8	22.5	21.2	22.8	23.1	20.7	22.3	21.1	22.6
	3H	22.6	24.1	23.0	24.4	24.8	22.5	23.9	22.8	24.3
	4H	23.3	24.7	23.7	25.0	25.4	23.1	24.5	23.5	24.8
	6H	23.7	25.0	24.1	25.4	25.8	23.5	24.8	24.0	25.2
	8H	23.8	25.1	24.3	25.5	25.9	23.7	24.9	24.1	25.3
	12H	23.9	25.1	24.3	25.5	25.9	23.8	25.0	24.2	25.3
4H	2H	21.4	22.8	21.8	23.2	23.5	21.3	22.7	21.7	23.1
	3H	23.5	24.6	23.9	25.0	25.4	23.3	24.5	23.7	24.9
	4H	24.2	25.3	24.7	25.7	26.2	24.1	25.1	24.5	25.6
	6H	24.8	25.8	25.3	26.2	26.7	24.7	25.6	25.1	26.5
	8H	25.0	25.9	25.5	26.3	26.8	24.9	25.7	25.3	26.7
	12H	25.1	25.9	25.6	26.4	26.9	25.0	25.8	25.5	26.3
8H	4H	24.5	25.4	25.0	25.8	26.3	24.4	25.3	24.8	25.7
	6H	25.2	26.0	25.7	26.5	26.9	25.1	25.8	25.6	26.3
	8H	25.5	26.2	26.0	26.7	27.1	25.4	26.0	25.9	26.5
	12H	25.7	26.3	26.2	26.8	27.3	25.6	26.2	26.1	26.7
12H	4H	24.6	25.3	25.1	25.8	26.3	24.4	25.2	24.9	25.7
	6H	25.3	26.0	25.8	26.4	27.0	25.2	25.8	25.7	26.3
	8H	25.6	26.2	26.1	26.7	27.2	25.5	26.1	26.0	26.6

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.