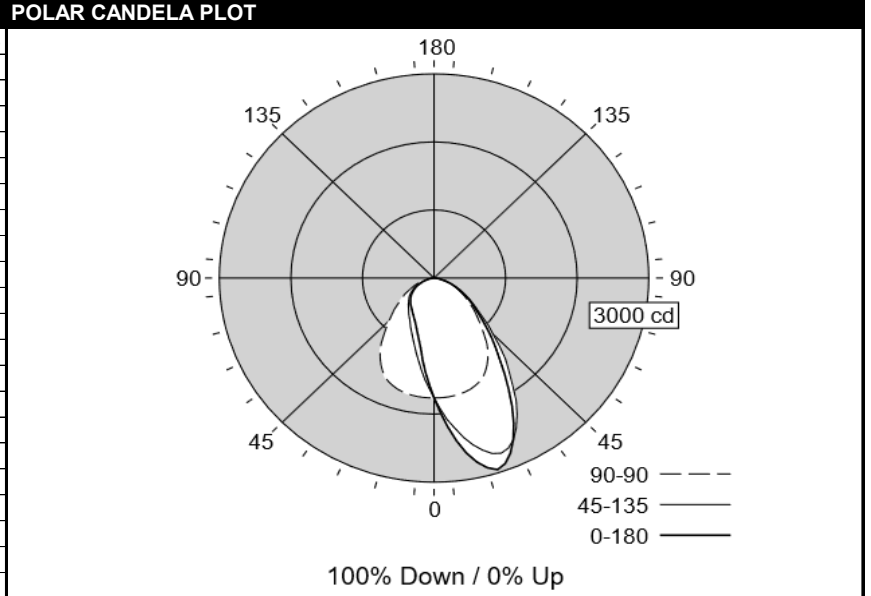


# LEDALITE - TG SUSPENDED/SURFACE/WALL MICRO



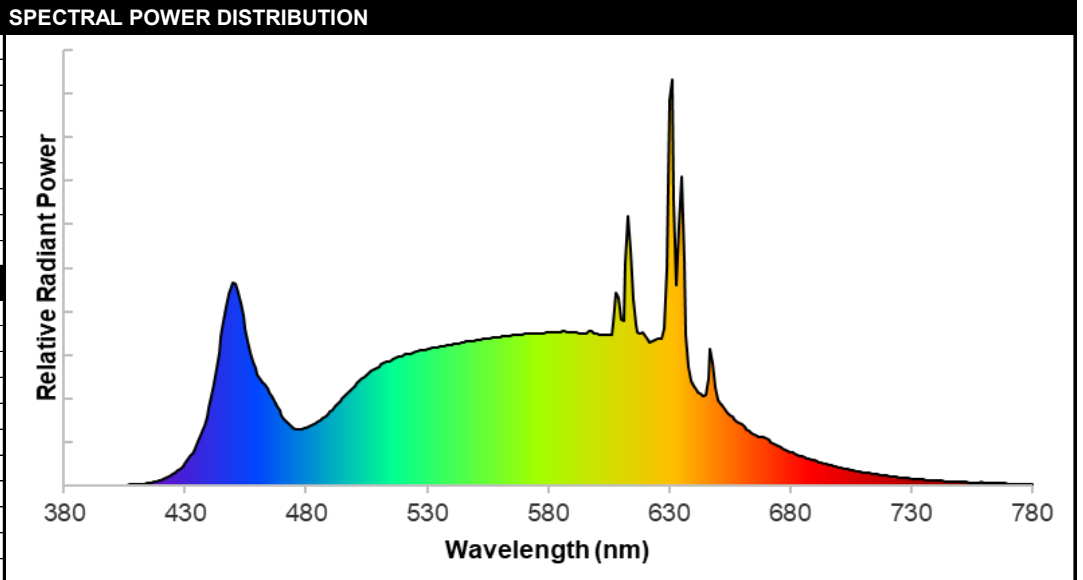
<b>TEST DATE:</b>	15 Sep 2021	<b>CATALOG NO:</b>	TMxxL940WNNNN40NNN
<b>Lamp Type:</b>	LED	<b>Description:</b>	MESO 4000LM DOWN 940
<b>No. of Lamps:</b>	96		
<b>Rated Lamp Lumens:</b>	-1	<b>Flux (lm), Efficiency (%):</b>	3911 lm 100%
<b>Input Watts:</b>	120 VAC 43.1	<b>Up/Dn Ratio, Efficacy (lm/W):</b>	100% Down / 0% Up 90.7
<b>CIE-IES Classification:</b>	Direct	<b>Report:</b>	LNG02061

CANDELA DISTRIBUTION						Flux
	0	45	90	135	180	Lumens
0	1762	1762	1762	1762	1762	
5	2195	2087	1761	1492	1385	170
15	2887	2617	1727	1042	869	513
25	2620	2624	1614	780	658	765
35	1718	1911	1314	618	546	789
45	1045	1167	888	503	465	654
55	640	676	573	403	371	492
65	359	392	348	273	253	332
75	148	169	155	130	114	162
85	26	28	27	24	22	35
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°)	2952.7	17.5				Pw---	70	50	30	10	70	50	30	50	30	10	0
Direct: Peak Candela & Angle (180°)	1761.5	0.0				RCR											
Spacing Criteria (0°, 90°, 180°)	1.44	1.23	0.45			0	119	119	119	119	116	116	116	111	111	111	100
Beam (H, V), Field (H, V)	74.5	41.9	135.5	129.6		1	110	106	102	99	108	104	101	100	97	94	87
Indirect: Peak Candela & Angle(°)	N/A	N/A				2	102	94	88	83	99	92	87	89	84	80	75
Indirect: Zenith Candela, Peak to Zenith	N/A	N/A				3	94	84	77	71	91	83	76	80	74	69	65
Luminous Width, Length, Height (ft)	4.00	0.15	0.00			4	86	76	68	62	84	74	67	72	66	60	57
DLC, UGR (4H x 8H, 1.0H), MDER	N/A	25.1	0.649			5	80	68	60	54	78	67	60	65	59	53	50
x, y, CCT, D <sub>uv</sub>	0.3824	0.3798	3969	0.0008		6	74	62	54	48	73	61	54	60	53	48	45
CRI (R <sub>a</sub> ), R <sub>g</sub> , G <sub>a</sub> , C <sub>g</sub>	93	64	99	93		7	69	57	49	43	68	56	48	55	48	43	40
TM-30-18 R <sub>f</sub> , R <sub>g</sub> , R <sub>h1</sub> , R <sub>g</sub> , R <sub>g,h1</sub>	91	91	100	-5%		8	65	52	44	39	63	52	44	50	44	39	36
120V: P(W), I(A), THD(%), PF	43.1	0.360	5.5	0.997		9	61	48	41	35	60	48	40	47	40	35	33
277V: P(W), I(A), THD(%), PF	42.5	0.157	10.3	0.976		10	57	45	37	32	56	44	37	43	37	32	30
347V: P(W), I(A), THD(%), PF	41.6	0.122	6.3	0.983		*Based on a floor reflectance of 0.2											

ZONAL LUMENS (lm)			
Zone	Lumens	%Fixture	%Lamp
0-30	1448	37.0%	37.0%
0-40	2237	57.2%	57.2%
0-60	3384	86.5%	86.5%
0-90	3912	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	3911	100.0%	100.0%



AVG LUMINANCE (cd/m²)			
	0	90	180
0	31590	31590	31590
5	39518	31696	24940
15	53600	32071	16128
25	51833	31931	13012
35	37600	28762	11949
45	26508	22529	11796
55	20016	17912	11593
65	15242	14780	10719
75	10234	10719	7885
85	5247	5514	4547

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

Test Number:	T20201108	Manufacturer:	Ledalite by Signify
Date:	27 Aug 2020	Model:	TruGroove Suspended

Correlated Colour Temperature ( $T_{cp}$ ) in K	3969	CIE1931 chromaticity coordinate, $x$	0.3824
Distance to Blackbody Locus ( $D_{uv}$ )	0.0008	CIE1931 chromaticity coordinate, $y$	0.3798
General Colour Rendering Index ( $R_a$ )	93	CIE1976 chromaticity coordinate, $u'$	0.2252
Red Rendering Index ( $R_9$ )	64	CIE1976 chromaticity coordinate, $v'$	0.5032
Colour Gamut Index ( $G_a$ )	99		
Red Chroma Index ( $C_9$ )	93		



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

Source: T20201108

Date: 27 Aug 2020

Manufacturer: Ledalite by Signify

Model: TruGroove Suspended



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

$x$  0.3824

$y$  0.3798

$u'$  0.2252

$v'$  0.5032

## 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	0.00020	425	0.00530	470	0.03250	515	0.05770	560	0.06820	605	0.06890	650	0.03930	695	0.00990	740	0.00240
381	0.00020	426	0.00600	471	0.03070	516	0.05820	561	0.06850	606	0.06900	651	0.03780	696	0.00960	741	0.00230
382	0.00020	427	0.00690	472	0.02910	517	0.05860	562	0.06870	607	0.07430	652	0.03700	697	0.00920	742	0.00220
383	0.00010	428	0.00790	473	0.02790	518	0.05900	563	0.06870	608	0.08870	653	0.03530	698	0.00900	743	0.00210
384	0.00010	429	0.00900	474	0.02700	519	0.05940	564	0.06890	609	0.08630	654	0.03370	699	0.00870	744	0.00210
385	0.00010	430	0.01020	475	0.02640	520	0.05990	565	0.06900	610	0.07610	655	0.03250	700	0.00850	745	0.00200
386	0.00010	431	0.01160	476	0.02610	521	0.06030	566	0.06910	611	0.07560	656	0.03170	701	0.00820	746	0.00190
387	0.00010	432	0.01330	477	0.02600	522	0.06070	567	0.06910	612	0.10200	657	0.03040	702	0.00790	747	0.00190
388	0.00020	433	0.01490	478	0.02610	523	0.06070	568	0.06940	613	0.12380	658	0.02920	703	0.00770	748	0.00190
389	0.00010	434	0.01690	479	0.02620	524	0.06120	569	0.06940	614	0.10790	659	0.02850	704	0.00740	749	0.00180
390	0.00010	435	0.01900	480	0.02660	525	0.06140	570	0.06960	615	0.08550	660	0.02800	705	0.00720	750	0.00170
391	0.00010	436	0.02160	481	0.02720	526	0.06180	571	0.06960	616	0.07390	661	0.02700	706	0.00700	751	0.00170
392	0.00010	437	0.02460	482	0.02760	527	0.06200	572	0.06960	617	0.07020	662	0.02590	707	0.00680	752	0.00170
393	0.00010	438	0.02780	483	0.02830	528	0.06220	573	0.06970	618	0.06970	663	0.02500	708	0.00660	753	0.00160
394	0.00010	439	0.03170	484	0.02880	529	0.06240	574	0.06970	619	0.07020	664	0.02430	709	0.00640	754	0.00150
395	0.00010	440	0.03600	485	0.02950	530	0.06270	575	0.06980	620	0.06840	665	0.02370	710	0.00610	755	0.00150
396	0.00010	441	0.04130	486	0.03020	531	0.06300	576	0.06990	621	0.06700	666	0.02310	711	0.00600	756	0.00140
397	0.00010	442	0.04700	487	0.03110	532	0.06310	577	0.07010	622	0.06570	667	0.02250	712	0.00580	757	0.00140
398	0.00020	443	0.05400	488	0.03190	533	0.06340	578	0.06990	623	0.06620	668	0.02210	713	0.00560	758	0.00130
399	0.00020	444	0.06100	489	0.03290	534	0.06360	579	0.07010	624	0.06700	669	0.02220	714	0.00540	759	0.00170
400	0.00020	445	0.06840	490	0.03410	535	0.06370	580	0.07020	625	0.06720	670	0.02170	715	0.00520	760	0.00130
401	0.00020	446	0.07550	491	0.03490	536	0.06400	581	0.07020	626	0.06740	671	0.02090	716	0.00510	761	0.00120
402	0.00020	447	0.08220	492	0.03630	537	0.06420	582	0.07030	627	0.06730	672	0.02010	717	0.00490	762	0.00120
403	0.00020	448	0.08800	493	0.03740	538	0.06430	583	0.07030	628	0.07190	673	0.01930	718	0.00480	763	0.00120
404	0.00020	449	0.09170	494	0.03870	539	0.06450	584	0.07050	629	0.09990	674	0.01870	719	0.00460	764	0.00110
405	0.00030	450	0.09340	495	0.03990	540	0.06470	585	0.07060	630	0.17700	675	0.01810	720	0.00450	765	0.00110
406	0.00030	451	0.09250	496	0.04120	541	0.06510	586	0.07080	631	0.18640	676	0.01750	721	0.00430	766	0.00100
407	0.00040	452	0.08880	497	0.04240	542	0.06520	587	0.07070	632	0.13060	677	0.01700	722	0.00420	767	0.00100
408	0.00040	453	0.08410	498	0.04370	543	0.06540	588	0.07060	633	0.09200	678	0.01640	723	0.00410	768	0.00110
409	0.00050	454	0.07820	499	0.04480	544	0.06550	589	0.07040	634	0.11900	679	0.01600	724	0.00390	769	0.00100
410	0.00060	455	0.07210	500	0.04590	545	0.06580	590	0.07030	635	0.14160	680	0.01550	725	0.00380	770	0.00090
411	0.00070	456	0.06620	501	0.04700	546	0.06600	591	0.07020	636	0.10340	681	0.01500	726	0.00370	771	0.00090
412	0.00080	457	0.06110	502	0.04810	547	0.06610	592	0.07020	637	0.06940	682	0.01460	727	0.00360	772	0.00090
413	0.00090	458	0.05690	503	0.04910	548	0.06650	593	0.07000	638	0.05440	683	0.01420	728	0.00350	773	0.00090
414	0.00110	459	0.05380	504	0.05010	549	0.06640	594	0.06980	639	0.04830	684	0.01380	729	0.00330	774	0.00090
415	0.00120	460	0.05130	505	0.05090	550	0.06660	595	0.06950	640	0.04580	685	0.01340	730	0.00320	775	0.00080
416	0.00150	461	0.04930	506	0.05170	551	0.06700	596	0.06960	641	0.04410	686	0.01300	731	0.00310	776	0.00070
417	0.00160	462	0.04780	507	0.05270	552	0.06700	597	0.07090	642	0.04290	687	0.01260	732	0.00300	777	0.00070
418	0.00200	463	0.04640	508	0.05320	553	0.06720	598	0.07100	643	0.04200	688	0.01220	733	0.00300	778	0.00070
419	0.00230	464	0.04470	509	0.05410	554	0.06740	599	0.07000	644	0.04130	689	0.01180	734	0.00290	779	0.00070
420	0.00260	465	0.04290	510	0.05460	555	0.06760	600	0.06950	645	0.04140	690	0.01150	735	0.00280	780	0.00070
421	0.00300	466	0.04120	511	0.05550	556	0.06770	601	0.06930	646	0.04920	691	0.01120	736	0.00270		
422	0.00340	467	0.03890	512	0.05610	557	0.06780	602	0.06900	647	0.06250	692	0.01080	737	0.00270		
423	0.00400	468	0.03670	513	0.05670	558	0.06810	603	0.06920	648	0.05610	693	0.01050	738	0.00250		
424	0.00460	469	0.03450	514	0.05710	559	0.06820	604	0.06930	649	0.04520	694	0.01020	739	0.00250		

## 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	22.4	23.9	22.7	24.2	24.5	21.6	23.0	21.9	23.4	23.7
	3H	23.6	25.0	24.0	25.3	25.7	23.0	24.3	23.4	24.7	25.0
	4H	24.0	25.2	24.4	25.6	25.9	23.4	24.7	23.8	25.0	25.4
	6H	24.2	25.3	24.6	25.7	26.1	23.7	24.9	24.1	25.2	25.6
	8H	24.2	25.3	24.6	25.7	26.1	23.8	24.9	24.2	25.3	25.7
	12H	24.2	25.3	24.7	25.7	26.1	23.8	24.8	24.2	25.2	25.7
4H	2H	22.8	24.1	23.2	24.4	24.8	22.0	23.2	22.4	23.6	24.0
	3H	24.3	25.3	24.7	25.7	26.1	23.6	24.7	24.1	25.1	25.5
	4H	24.8	25.7	25.2	26.1	26.5	24.2	25.1	24.6	25.5	26.0
	6H	25.1	25.9	25.5	26.3	26.8	24.6	25.4	25.1	25.8	26.3
	8H	25.1	25.9	25.6	26.3	26.8	24.7	25.4	25.2	25.9	26.4
	12H	25.2	25.8	25.7	26.3	26.8	24.7	25.4	25.2	25.9	26.4
8H	4H	24.9	25.7	25.4	26.1	26.6	24.4	25.1	24.8	25.5	26.0
	6H	25.3	25.9	25.8	26.4	26.9	24.8	25.4	25.3	25.9	26.4
	8H	25.4	26.0	25.9	26.5	27.0	25.0	25.5	25.5	26.0	26.5
	12H	25.5	26.0	26.0	26.5	27.0	25.1	25.5	25.6	26.0	26.6
12H	4H	24.9	25.6	25.4	26.1	26.6	24.4	25.0	24.8	25.5	26.0
	6H	25.3	25.9	25.9	26.3	26.9	24.8	25.4	25.4	25.8	26.4
	8H	25.5	25.9	26.0	26.4	27.0	25.0	25.5	25.5	26.0	26.5

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.