



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SWLSEL4HT4311LMWT40120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] DG3211126-60857E-10  
 [TESTLAB] BACL  
 [TESTDATE] 2021-12-02  
 [ISSUE DATE] 2021-12-02 13:13:57  
 [LAMPPOSITION] 0,0  
 [OTHER]  
 [MANUFAC] BEGHELLI  
 [LUMCAT] SWLSEL4HT4311LMWT40120-277V\_P  
 [LAMP] LED

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4311
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	149
Total Luminaire Watts	29
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.30
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.23 m
Luminous Width (90-270)	0.11 m
Luminous Height	0.05 m

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7910	6270	6063
55	7435	5638	5523
65	6703	4978	5023
75	5332	4357	4600
85	2345	3833	4358

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	1205.755	1205.755	1205.755	1205.755	1205.755	1205.755	1205.755	1205.755	1205.755	1205.755
1	1205.464	1205.306	1205.326	1205.471	1205.471	1205.471	1205.907	1205.914	1205.610	1205.886
2	1204.580	1204.421	1204.718	1204.725	1204.870	1205.167	1205.762	1205.623	1205.161	1205.299
3	1203.240	1203.088	1203.385	1203.537	1203.979	1204.276	1205.022	1205.029	1204.255	1204.546
4	1201.485	1201.768	1201.630	1202.072	1202.521	1202.964	1203.558	1203.710	1202.922	1203.509
5	1199.551	1199.544	1199.544	1200.283	1200.732	1201.464	1202.210	1202.514	1201.105	1201.685
6	1196.932	1197.070	1197.216	1197.893	1198.784	1199.440	1200.470	1200.483	1199.171	1199.620
7	1193.789	1193.934	1194.528	1195.557	1196.172	1197.195	1197.789	1198.086	1196.096	1196.981
8	1190.583	1190.583	1191.357	1192.400	1193.443	1194.411	1195.157	1195.461	1193.264	1194.148
9	1186.673	1187.115	1187.840	1189.167	1190.666	1191.094	1192.151	1192.006	1189.733	1190.618
10	1182.452	1182.749	1183.764	1185.374	1186.866	1187.447	1188.504	1188.359	1186.065	1186.680
11	1178.023	1178.168	1179.474	1181.395	1183.163	1184.027	1184.807	1184.801	1181.443	1182.631
12	1172.869	1173.166	1174.769	1176.538	1178.776	1179.647	1180.268	1179.978	1176.821	1178.154
13	1167.211	1167.798	1169.671	1172.165	1174.403	1175.273	1175.764	1175.329	1171.398	1172.869
14	1161.470	1162.078	1164.095	1167.480	1169.422	1170.589	1170.790	1170.051	1165.691	1167.619
15	1155.294	1155.888	1158.340	1161.905	1164.144	1165.159	1165.173	1164.296	1159.846	1161.781
16	1148.640	1149.235	1152.288	1156.033	1158.568	1159.577	1159.418	1158.541	1153.407	1155.639
17	1141.842	1142.284	1145.642	1149.504	1152.806	1153.511	1153.069	1151.680	1146.547	1149.096
18	1134.422	1135.314	1138.809	1143.120	1146.554	1147.259	1146.533	1145.096	1139.086	1141.759
19	1126.767	1127.375	1131.728	1136.889	1139.618	1140.882	1139.742	1138.112	1131.500	1134.637
20	1118.477	1119.506	1124.004	1129.496	1133.206	1134.063	1132.771	1130.553	1123.797	1126.933
21	1109.890	1110.615	1116.011	1122.083	1125.959	1126.802	1124.923	1122.415	1115.230	1118.484
22	1100.798	1102.124	1107.520	1114.463	1118.643	1119.189	1116.867	1113.903	1106.207	1109.896
23	1091.257	1092.867	1099.008	1106.145	1110.615	1111.299	1108.763	1105.371	1096.763	1100.901
24	1081.840	1082.870	1089.744	1097.433	1102.518	1102.739	1099.810	1095.982	1086.911	1091.236
25	1071.367	1073.115	1080.258	1088.756	1093.979	1094.179	1090.801	1086.400	1076.859	1081.764
26	1061.004	1062.793	1070.807	1079.699	1085.246	1085.419	1081.647	1076.168	1066.441	1071.374
27	1050.212	1052.154	1060.907	1070.420	1076.244	1076.286	1071.602	1065.660	1055.573	1060.783
28	1038.571	1040.948	1050.419	1060.520	1066.779	1066.814	1061.549	1054.882	1043.870	1049.853
29	1027.130	1029.700	1039.649	1050.461	1056.858	1056.617	1051.048	1044.070	1032.491	1038.592
30	1015.054	1017.886	1028.574	1040.284	1047.421	1046.931	1040.423	1032.256	1019.931	1026.888
31	1002.763	1005.679	1017.230	1029.832	1036.851	1036.125	1029.293	1020.505	1007.724	1014.881
32	990.231	993.512	1005.886	1019.116	1026.578	1025.845	1018.239	1008.601	994.735	1002.618
33	977.602	981.035	993.975	1008.076	1015.689	1014.688	1006.307	995.675	982.120	990.058
34	964.095	967.971	981.982	996.525	1004.732	1003.309	994.127	983.177	968.731	977.208
35	950.077	954.845	969.740	985.498	993.720	992.552	982.514	969.747	954.589	963.929
36	936.315	940.765	956.668	972.987	982.272	980.179	969.588	956.088	940.454	950.506
37	922.007	927.182	944.267	961.926	971.515	969.111	957.339	942.506	926.422	936.702
38	907.907	912.985	930.581	949.014	958.872	956.199	943.943	928.108	913.689	922.615
39	892.411	898.304	917.365	937.020	946.996	944.461	930.616	913.703	901.240	910.249
40	877.184	883.588	904.072	924.101	934.409	931.389	916.957	898.870	888.728	897.882
41	861.840	868.506	889.689	911.223	921.973	918.795	903.188	884.065	872.106	885.509
42	846.005	853.211	876.120	898.587	909.599	906.159	889.350	868.652	855.836	870.178
43	830.232	837.535	861.204	884.811	896.597	892.417	874.710	852.824	839.200	854.261
44	813.672	821.873	847.090	871.629	883.878	879.374	860.603	837.051	822.363	838.170
45	797.471	805.921	832.706	858.226	870.448	865.639	845.742	821.030	805.071	821.741
46	780.338	789.671	817.748	844.347	857.197	852.527	831.545	804.905	787.765	805.285
47	763.211	773.180	802.411	830.619	843.476	837.929	816.367	788.117	770.237	788.628
48	746.216	756.544	787.523	816.954	830.550	824.823	801.078	771.267	751.998	771.529
49	728.322	739.500	771.999	802.625	816.677	810.342	785.512	754.250	733.911	754.561
50	710.663	722.484	757.042	788.704	803.537	796.387	770.299	737.269	715.665	737.151
51	692.521	705.565	741.283	774.382	789.367	782.390	754.941	719.652	696.811	719.534
52	674.662	687.533	725.559	759.867	775.115	767.764	738.927	701.841	678.165	701.841
53	656.465	670.614	709.973	745.504	761.491	753.504	723.085	684.072	658.779	683.754

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**CANDELA TABULATION - (Cont.)**

54	637.493	652.617	693.758	730.754	746.858	738.416	706.781	666.247	639.587	666.206
55	619.040	634.910	678.255	716.453	733.365	724.142	691.029	648.381	620.263	647.856
56	599.972	616.581	662.544	701.917	719.244	709.890	675.457	630.129	600.276	629.562
57	581.008	598.570	646.060	686.939	704.093	694.580	658.544	611.420	580.462	611.261
58	561.463	580.766	630.405	673.025	690.905	680.804	643.124	593.402	560.199	592.456
59	541.932	562.099	613.562	657.812	676.189	665.301	626.287	574.624	540.060	574.154
60	522.850	543.929	598.093	643.580	662.565	651.200	610.522	556.282	519.755	555.307
61	502.864	525.932	582.196	628.989	648.409	636.499	594.673	537.552	499.057	536.723
62	482.614	506.857	565.816	613.679	633.707	621.624	578.293	518.436	478.434	518.000
63	462.759	488.701	550.036	599.931	619.931	607.406	562.320	500.024	457.453	499.112
64	442.924	469.978	533.759	585.298	605.914	592.794	546.036	481.087	436.499	480.072
65	423.331	451.712	518.498	571.273	592.462	579.053	530.485	462.600	415.475	461.632
66	403.738	434.233	502.173	556.537	578.058	563.888	513.627	443.718	394.418	442.751
67	384.138	416.760	486.994	542.727	564.669	550.243	498.725	425.894	373.284	424.222
68	363.750	399.288	471.388	528.702	550.831	535.701	482.932	408.111	351.895	405.278
69	343.038	380.600	455.801	514.781	537.027	521.911	467.049	390.321	330.802	387.136
70	322.180	362.520	437.929	500.936	524.066	508.245	452.126	372.061	309.240	368.476
71	301.731	344.406	425.714	486.980	510.270	494.027	438.053	353.491	288.176	350.313
72	280.797	326.256	413.534	473.246	497.295	480.396	423.994	335.424	267.001	332.564
73	260.382	308.570	398.715	460.023	483.954	466.952	409.935	317.496	245.957	314.560
74	239.994	291.216	384.317	446.440	470.814	453.149	395.157	299.796	225.106	297.254
75	219.393	273.813	369.574	434.467	457.860	442.399	380.593	282.441	204.518	279.830
76	199.641	257.100	355.763	422.522	444.976	429.804	366.389	265.501	183.979	263.111
77	179.212	240.575	341.697	410.570	433.604	417.175	352.434	248.886	163.950	246.496
78	160.206	224.699	328.288	397.996	422.246	404.677	338.678	232.872	144.088	230.378
79	141.138	209.161	314.899	385.443	410.895	391.861	325.054	217.299	125.213	214.999
80	122.388	193.810	301.848	372.966	398.853	379.315	311.859	202.045	107.410	199.931
81	104.480	179.764	289.302	360.910	386.763	367.218	299.043	187.606	89.606	185.326
82	87.257	165.878	276.645	349.007	375.039	355.218	286.552	173.830	71.837	171.619
83	71.325	152.703	264.728	337.193	363.363	343.459	274.192	160.455	56.423	158.327
84	55.926	140.219	252.865	325.932	351.964	331.790	262.323	147.736	42.357	145.691
85	41.922	128.136	241.252	314.263	340.364	320.343	250.509	135.804	29.707	133.759
86	30.232	117.158	230.205	303.396	329.531	309.164	239.262	124.585	20.850	122.553
87	18.577	106.663	219.427	292.563	318.629	298.290	228.381	114.014	12.000	112.073
88	9.762	97.047	208.898	281.868	307.789	287.506	217.838	104.252	3.219	102.781
89	3.482	88.024	199.012	271.643	297.786	277.156	207.586	95.091	0.352	93.489
90	1.858	79.837	189.133	261.384	287.236	266.821	197.665	86.677	0.173	84.203
91	0.318	72.382	180.055	251.967	277.744	257.218	188.359	79.084	0.180	76.528
92	0.311	65.453	170.914	241.977	267.436	247.207	178.866	71.837	0.187	69.612
93	0.325	59.449	162.493	233.037	258.316	238.025	170.445	65.564	0.207	63.249
94	0.359	53.909	154.237	223.794	249.038	228.747	161.864	59.836	0.235	57.473
95	0.401	48.893	146.340	214.930	239.746	219.821	153.864	54.551	0.249	52.340
96	0.421	44.609	138.996	206.708	231.234	211.323	146.209	49.929	0.269	47.684
97	0.449	40.996	131.528	198.017	222.336	202.777	138.685	45.646	0.297	43.552
98	0.491	37.390	124.889	190.127	214.190	194.784	131.687	42.226	0.325	39.836
99	0.532	33.790	118.263	182.403	206.038	186.666	124.861	38.806	0.352	36.575
100	0.573	31.068	112.128	174.845	198.107	179.122	118.622	35.386	0.387	33.625
101	0.608	28.664	106.311	167.660	190.535	171.757	112.439	32.671	0.408	31.034
102	0.643	26.529	100.646	160.427	182.832	164.455	106.657	30.322	0.435	28.740
103	0.677	24.636	95.492	153.815	175.792	157.677	101.226	28.229	0.463	26.626
104	0.705	22.944	90.428	147.003	168.545	150.782	95.886	26.281	0.484	24.795
105	0.739	21.465	85.737	140.758	161.795	144.523	91.133	24.664	0.504	23.082
106	0.760	20.090	81.253	134.616	155.169	138.126	86.366	23.103	0.484	21.555
107	0.760	18.923	77.101	128.833	148.917	132.281	82.041	21.749	0.497	20.222
108	0.788	17.804	73.094	123.161	142.699	126.498	77.875	20.526	0.532	18.944
109	0.829	16.837	69.329	117.731	136.772	120.916	73.854	19.365	0.567	17.818

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**CANDELA TABULATION - (Cont.)**

110	0.877	15.938	65.854	112.557	131.044	115.610	70.185	18.356	0.615	16.788
111	0.912	15.096	62.365	107.465	125.421	110.449	66.586	17.396	0.656	15.835
112	0.953	14.391	59.408	102.788	120.246	105.599	63.353	16.546	0.712	14.992
113	0.995	13.686	56.389	98.159	115.016	100.888	60.230	15.759	0.753	14.170
114	1.029	13.078	53.660	93.786	110.173	96.397	57.287	15.026	0.795	13.465
115	1.078	12.505	51.021	89.475	105.309	92.079	54.454	14.342	0.843	12.795
116	1.126	11.973	48.492	85.385	100.701	87.810	51.850	13.741	0.891	12.180
117	1.161	11.524	46.205	81.633	96.314	83.968	49.390	13.175	0.940	11.614
118	1.209	11.054	44.015	77.757	91.989	80.023	46.986	12.636	0.995	11.095
119	1.244	10.688	41.818	74.365	88.044	76.535	44.831	12.159	1.050	10.598
120	1.299	10.301	39.628	70.863	84.037	72.963	42.730	11.696	1.105	10.170
121	1.347	9.962	37.770	67.650	80.300	69.626	40.637	11.289	1.161	9.748
122	1.389	9.658	36.043	64.589	76.673	66.469	38.537	10.902	1.209	9.368
123	1.451	9.341	34.274	61.494	73.129	63.360	36.747	10.543	1.271	9.023
124	1.492	9.113	32.775	58.793	69.868	60.534	35.013	10.211	1.313	8.677
125	1.561	8.843	31.220	56.085	66.745	57.743	33.445	9.900	1.375	8.332
126	1.610	8.622	29.797	53.466	63.629	55.083	31.904	9.610	1.430	8.056
127	1.672	8.408	28.478	51.083	60.810	52.561	30.440	9.327	1.492	7.772
128	1.748	8.208	27.110	48.575	57.860	50.067	29.010	9.092	1.548	7.517
129	1.810	8.049	25.963	46.392	55.277	47.794	27.759	8.864	1.610	7.268
130	1.886	7.855	24.747	44.844	52.693	45.445	26.440	8.629	1.672	7.047
131	1.962	7.717	23.642	42.378	50.192	43.311	25.320	8.449	1.734	6.833
132	2.031	7.579	22.598	39.898	47.863	41.176	24.104	8.249	1.782	6.625
133	2.107	7.448	21.528	37.901	45.473	39.048	22.999	8.097	1.845	6.404
134	2.197	7.330	20.595	36.091	43.297	37.190	21.990	7.938	1.907	6.052
135	2.273	7.199	19.690	34.385	41.121	35.386	20.982	7.765	1.948	5.928
136	2.349	7.095	18.826	32.678	38.944	33.659	20.070	7.627	2.004	5.796
137	2.432	6.978	18.039	31.117	37.058	32.022	19.206	7.468	2.059	5.700
138	2.535	6.895	17.286	29.597	35.207	30.447	18.370	7.330	2.121	5.589
139	2.639	6.819	16.574	28.146	33.466	28.982	17.638	7.240	2.169	5.458
140	2.729	6.764	15.945	26.785	31.787	27.538	16.892	7.144	2.218	5.334
141	2.826	6.708	15.337	25.479	30.163	26.177	16.229	7.068	2.287	5.188
142	2.943	6.632	14.750	24.229	28.623	24.940	15.607	7.005	2.356	5.043
143	3.040	6.591	14.190	23.068	27.172	23.690	14.978	6.950	2.397	4.912
144	3.095	6.536	13.631	21.949	25.783	22.543	14.398	6.895	2.425	4.774
145	3.143	6.508	13.127	20.899	24.471	21.438	13.817	6.847	2.439	4.663
146	3.199	6.480	12.629	19.883	23.213	20.374	13.279	6.715	2.453	4.553
147	3.254	6.453	12.159	18.902	22.004	19.400	12.774	6.529	2.473	4.401
148	3.330	6.439	11.752	18.018	20.892	18.446	12.304	6.515	2.501	4.339
149	3.392	6.411	11.323	17.134	19.787	17.527	11.848	6.494	2.522	4.228
150	3.454	6.391	10.957	16.305	18.771	16.691	11.441	6.446	2.542	4.187
151	3.503	6.363	10.605	15.531	17.776	15.876	11.026	6.397	2.577	4.104
152	3.551	6.335	10.246	14.785	16.871	15.144	10.674	6.315	2.611	3.986
153	3.613	6.315	9.935	14.087	16.007	14.412	10.301	6.259	2.646	3.897
154	3.669	6.294	9.638	13.437	15.199	13.728	9.962	6.114	2.681	3.848
155	3.717	6.287	9.347	12.795	14.432	13.078	9.638	6.031	2.722	3.827
156	3.765	6.266	9.064	12.201	13.679	12.429	9.320	5.948	2.763	3.814
157	3.807	6.259	8.816	11.662	12.995	11.862	9.037	5.941	2.798	3.793
158	3.848	6.239	8.560	11.130	12.325	11.310	8.760	5.859	2.839	3.751
159	3.883	6.232	8.332	10.646	11.690	10.784	8.436	5.831	2.874	3.606
160	3.903	6.211	8.111	10.183	11.123	10.315	8.138	5.734	2.902	3.406
161	3.917	6.183	7.876	9.727	10.550	9.845	7.821	5.672	2.929	3.233
162	3.924	6.169	7.682	9.327	10.045	9.410	7.434	5.541	2.950	3.102
163	3.924	6.149	7.468	8.919	9.562	9.002	7.144	5.444	2.971	3.012
164	3.924	6.135	7.282	8.567	9.113	8.615	6.826	5.416	2.991	2.957
165	3.910	6.121	7.075	8.214	8.691	8.249	6.549	5.403	3.005	2.936

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

166	3.897	6.107	6.881	7.876	8.297	7.904	6.149	5.410	3.033	2.943
167	3.897	6.093	6.715	7.579	7.931	7.572	5.831	5.437	3.081	3.005
168	3.910	6.073	6.556	7.289	7.586	7.199	5.624	5.465	3.150	3.088
169	3.952	6.052	6.425	7.012	7.275	6.833	5.568	5.410	3.233	3.185
170	4.007	5.983	6.301	6.764	6.957	6.467	5.499	5.306	3.309	3.275
171	4.035	5.865	6.197	6.543	6.674	6.121	5.479	5.230	3.358	3.344
172	4.048	5.534	6.121	6.363	6.439	5.755	5.444	5.099	3.413	3.406
173	4.042	5.182	6.059	6.211	6.232	5.486	5.396	4.974	3.461	3.454
174	4.014	4.912	5.997	6.100	6.080	5.251	5.334	4.760	3.503	3.496
175	3.966	4.656	5.859	6.011	5.969	5.023	5.182	4.553	3.503	3.503
176	3.910	4.401	5.416	5.900	5.879	4.850	4.884	4.352	3.503	3.510
177	3.841	4.145	4.857	5.596	5.672	4.504	4.525	4.152	3.517	3.523
178	3.772	3.931	4.408	4.871	5.223	4.152	4.159	3.938	3.544	3.544
179	3.703	3.717	3.959	4.145	4.491	3.772	3.800	3.717	3.579	3.579
180	3.641	3.641	3.641	3.641	3.641	3.641	3.641	3.641	3.641	3.641

**Vert. Horizontal Angles**

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	1205.755	1205.755	1205.755	1205.755	1205.755	1205.755	1205.755
1	1205.741	1205.755	1205.603	1205.610	1205.444	1205.009	1205.464
2	1205.306	1205.596	1205.306	1204.857	1204.566	1204.131	1204.580
3	1204.843	1204.553	1204.553	1203.951	1203.502	1202.770	1203.240
4	1203.661	1203.654	1203.516	1202.625	1201.879	1200.849	1201.485
5	1201.706	1201.851	1201.706	1200.946	1200.048	1198.708	1199.551
6	1200.207	1200.214	1199.924	1198.874	1197.540	1195.765	1196.932
7	1197.575	1197.865	1197.437	1196.393	1194.763	1192.704	1193.789
8	1194.887	1195.336	1195.039	1193.402	1191.474	1189.402	1190.583
9	1191.792	1192.241	1191.689	1190.486	1187.965	1185.277	1186.673
10	1188.296	1189.036	1188.317	1186.659	1184.144	1181.022	1182.452
11	1184.103	1185.146	1184.718	1182.763	1179.930	1176.517	1178.023
12	1179.909	1180.952	1180.814	1178.583	1175.032	1171.170	1172.869
13	1175.363	1176.565	1176.130	1173.595	1170.334	1165.739	1167.211
14	1169.809	1171.598	1171.308	1168.482	1164.634	1159.736	1161.470
15	1164.413	1166.354	1165.919	1163.397	1158.665	1153.477	1155.294
16	1158.423	1160.655	1160.378	1157.518	1152.627	1146.996	1148.640
17	1152.468	1154.699	1154.727	1151.280	1145.801	1140.011	1141.842
18	1145.732	1148.537	1148.260	1144.958	1139.182	1132.826	1134.422
19	1138.740	1141.725	1141.607	1138.450	1131.762	1124.640	1126.767
20	1131.465	1135.362	1135.065	1131.307	1124.349	1116.639	1118.477
21	1123.659	1127.970	1127.686	1123.790	1116.239	1107.927	1109.890
22	1115.769	1119.935	1120.114	1115.900	1107.907	1099.022	1100.798
23	1107.402	1112.004	1112.480	1107.817	1099.368	1089.433	1091.257
24	1098.290	1103.513	1104.142	1099.319	1090.276	1080.037	1081.840
25	1089.081	1094.891	1095.665	1090.545	1080.921	1070.089	1071.367
26	1079.705	1085.979	1086.897	1081.488	1071.111	1059.380	1061.004
27	1069.854	1076.845	1077.626	1072.520	1061.542	1048.796	1050.212
28	1059.497	1066.835	1068.354	1062.475	1050.779	1037.562	1038.571
29	1049.121	1057.003	1058.682	1052.603	1040.485	1026.343	1027.130
30	1038.302	1046.937	1048.941	1042.309	1029.576	1014.460	1015.054
31	1027.040	1036.284	1038.412	1031.503	1017.997	1002.300	1002.763
32	1015.641	1025.762	1028.035	1020.947	1006.922	990.176	990.231
33	1003.827	1014.674	1016.995	1009.741	994.936	977.712	977.602
34	991.875	1003.288	1006.086	998.680	983.260	964.710	964.095
35	979.750	991.813	994.839	987.170	970.735	951.452	950.077
36	967.425	980.248	983.585	975.923	958.554	938.084	936.315

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**CANDELA TABULATION - (Cont.)**

37	954.713	968.558	972.261	963.978	945.670	924.488	922.007
38	941.511	956.261	960.061	951.584	933.041	912.701	907.907
39	928.502	943.977	948.461	939.721	919.762	900.922	892.411
40	915.465	931.693	936.156	927.293	908.653	889.081	877.184
41	903.782	919.106	923.921	914.843	897.544	873.674	861.840
42	892.100	908.446	912.349	904.142	886.359	858.344	846.005
43	880.341	897.786	901.530	893.440	871.933	842.799	830.232
44	865.757	887.119	890.711	882.731	857.646	827.047	813.672
45	850.979	873.287	879.830	868.976	842.951	810.853	797.471
46	835.856	859.463	866.696	855.338	828.236	794.646	780.338
47	821.362	845.929	853.280	841.880	813.368	778.341	763.211
48	805.520	831.386	839.400	827.579	798.224	761.498	746.216
49	790.528	817.762	826.094	813.914	783.101	744.758	728.322
50	775.066	803.371	812.159	799.537	767.867	727.873	710.663
51	759.266	788.891	798.342	785.319	752.509	710.511	692.521
52	743.756	774.749	784.372	771.211	736.937	693.295	674.662
53	727.452	760.095	770.555	756.689	721.427	675.830	656.465
54	711.921	745.843	756.710	742.423	705.779	658.441	637.493
55	695.720	731.293	742.367	727.914	689.937	640.506	619.040
56	679.664	716.266	728.446	713.572	674.303	622.764	599.972
57	663.677	701.958	714.360	699.084	658.627	604.898	581.008
58	647.186	687.402	699.824	684.431	642.557	586.528	561.463
59	631.158	672.907	685.937	669.930	626.847	568.793	541.932
60	615.323	658.316	671.995	655.532	611.019	550.451	522.850
61	598.950	643.255	657.439	641.051	594.991	532.205	502.864
62	583.288	629.189	644.043	626.688	579.598	514.291	482.614
63	566.741	614.225	629.521	612.180	563.667	495.727	462.759
64	550.990	599.896	615.627	597.824	548.088	477.585	442.924
65	534.906	585.644	601.651	583.751	532.474	459.318	423.331
66	519.071	571.349	587.827	569.311	516.964	441.038	403.738
67	503.520	557.104	574.030	555.294	501.413	422.971	384.138
68	487.761	542.955	560.378	541.456	486.207	404.739	363.750
69	472.451	528.840	546.851	527.189	470.869	386.963	343.038
70	457.031	515.120	533.448	513.807	456.009	368.966	322.180
71	441.673	500.888	519.748	499.755	440.906	351.370	301.731
72	426.840	487.360	506.608	486.338	426.336	334.056	280.797
73	411.814	473.667	493.350	472.894	411.710	316.633	260.382
74	397.306	460.375	480.120	459.484	397.312	299.644	239.994
75	382.935	447.179	467.532	446.502	383.288	282.870	219.393
76	368.565	433.797	454.392	433.314	369.180	266.621	199.641
77	354.893	421.230	442.053	420.747	355.584	250.330	179.212
78	340.716	407.952	429.224	407.738	341.925	234.695	160.206
79	327.700	395.730	417.161	395.537	328.951	219.690	141.138
80	314.443	383.177	404.891	383.212	315.942	204.808	122.388
81	301.385	370.818	392.849	370.907	303.181	190.818	104.480
82	289.122	359.245	381.181	359.363	290.898	176.883	87.257
83	276.666	346.969	369.298	347.542	278.683	164.026	71.325
84	264.769	335.701	358.036	335.970	266.814	151.370	55.926
85	253.135	324.281	346.720	324.792	255.525	139.708	41.922
86	241.722	313.061	335.652	313.468	244.271	128.412	30.232
87	230.937	302.311	324.806	302.774	233.272	117.814	18.577
88	220.277	291.630	314.422	292.238	223.040	108.453	9.762
89	209.900	280.970	303.762	281.840	212.546	99.091	3.482
90	200.131	270.938	293.716	271.540	202.867	89.737	1.858
91	190.259	260.797	283.498	261.702	193.216	81.792	0.318
92	181.333	251.352	273.958	252.112	184.068	74.676	0.311

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**CANDELA TABULATION - (Cont.)**

93	172.241	241.694	264.203	242.558	175.294	68.113	0.325
94	163.833	232.492	254.979	233.466	166.659	62.109	0.359
95	155.632	223.614	245.818	224.360	158.472	56.686	0.401
96	147.715	214.667	236.830	215.807	150.554	51.767	0.421
97	140.274	206.328	228.187	207.226	143.093	47.338	0.449
98	132.986	197.914	219.607	198.950	135.735	43.414	0.491
99	126.194	190.031	211.496	190.977	128.972	39.898	0.532
100	119.590	182.113	203.323	183.219	122.229	36.678	0.573
101	113.503	174.707	195.613	175.612	115.997	33.908	0.608
102	107.582	167.294	187.972	168.379	110.062	31.345	0.643
103	102.014	160.358	180.580	161.249	104.460	29.099	0.677
104	96.445	153.449	173.298	154.409	98.857	27.089	0.705
105	90.905	146.893	166.327	147.929	93.274	25.196	0.739
106	86.145	140.592	159.702	141.435	88.348	23.586	0.760
107	81.695	134.360	152.986	135.341	83.789	22.025	0.760
108	77.440	128.536	146.748	129.434	79.478	20.705	0.788
109	73.474	122.809	140.578	123.714	75.367	19.427	0.829
110	69.584	117.310	134.588	118.208	71.512	18.287	0.877
111	66.158	112.218	129.124	113.089	67.899	17.279	0.912
112	62.690	107.092	123.376	107.907	64.389	16.277	0.953
113	59.539	102.214	118.235	103.036	61.135	15.441	0.995
114	56.548	97.337	113.047	98.159	58.054	14.605	1.029
115	53.660	92.459	108.163	93.288	55.090	13.880	1.078
116	50.979	88.335	103.368	89.074	52.354	13.209	1.126
117	48.389	84.162	98.573	84.936	49.722	12.560	1.161
118	45.943	80.341	93.793	81.087	47.221	11.994	1.209
119	43.656	76.583	89.481	77.219	44.879	11.448	1.244
120	41.473	73.060	85.571	73.730	42.606	10.950	1.299
121	39.407	69.605	81.571	70.234	40.513	10.494	1.347
122	37.424	66.296	77.827	66.904	38.461	10.066	1.389
123	35.518	63.139	74.255	63.760	36.512	9.665	1.451
124	33.784	60.189	70.807	60.679	34.716	9.285	1.492
125	32.056	57.232	67.415	57.777	32.913	8.933	1.561
126	30.467	54.503	64.299	54.966	31.296	8.574	1.610
127	28.920	51.774	61.114	52.264	29.659	8.214	1.672
128	27.414	49.204	58.199	49.715	28.222	7.945	1.748
129	26.032	46.772	55.373	47.256	26.813	7.696	1.810
130	24.678	44.354	52.596	44.844	25.438	7.454	1.886
131	23.434	42.136	50.019	42.627	24.215	7.240	1.962
132	22.211	39.891	47.414	40.402	22.909	7.033	2.031
133	21.058	37.818	45.017	38.329	21.811	6.847	2.107
134	19.966	35.842	42.716	36.388	20.719	6.674	2.197
135	18.868	33.853	40.416	34.426	19.683	6.522	2.273
136	17.852	32.008	38.240	32.678	18.785	6.391	2.349
137	16.885	30.205	36.160	30.944	17.852	6.259	2.432
138	15.952	28.485	34.115	29.245	16.995	6.142	2.535
139	15.089	26.882	32.298	27.738	16.215	6.038	2.639
140	14.232	25.307	30.440	26.225	15.462	5.941	2.729
141	13.424	23.780	28.685	24.837	14.778	5.845	2.826
142	12.650	22.322	27.020	23.483	14.156	5.776	2.943
143	11.918	20.947	25.417	22.239	13.541	5.720	3.040
144	11.206	19.600	23.932	21.058	13.037	5.686	3.095
145	10.522	18.350	22.460	19.918	12.505	5.665	3.143
146	9.886	17.127	21.092	18.833	12.021	5.631	3.199
147	9.320	15.966	19.759	17.811	11.579	5.624	3.254
148	8.746	14.902	18.508	16.837	11.171	5.603	3.330

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**CANDELA TABULATION - (Cont.)**

149	8.180	13.900	17.348	15.918	10.798	5.596	3.392
150	7.689	12.961	16.187	15.040	10.398	5.589	3.454
151	7.275	12.111	15.158	14.204	10.031	5.582	3.503
152	6.853	11.303	14.156	13.431	9.679	5.589	3.551
153	6.287	10.529	13.209	12.684	9.320	5.582	3.613
154	6.024	9.852	12.360	11.994	8.995	5.596	3.669
155	5.686	9.223	11.531	11.310	8.670	5.589	3.717
156	5.458	8.594	10.771	10.702	8.346	5.596	3.765
157	5.050	7.973	10.059	10.080	8.035	5.575	3.807
158	4.829	7.468	9.437	9.506	7.758	5.555	3.848
159	4.594	7.061	8.816	8.988	7.482	5.527	3.883
160	4.401	6.639	8.187	8.470	7.199	5.472	3.903
161	4.263	6.239	7.703	7.952	6.936	5.410	3.917
162	4.166	5.872	7.275	7.517	6.674	5.334	3.924
163	4.055	5.403	6.874	7.123	6.432	5.264	3.924
164	3.979	5.030	6.529	6.771	6.211	5.188	3.924
165	4.014	4.608	6.218	6.446	6.004	5.112	3.910
166	4.097	4.463	5.962	6.169	5.803	5.043	3.897
167	4.194	4.290	5.707	5.907	5.610	4.981	3.897
168	4.270	4.159	5.410	5.672	5.444	4.926	3.910
169	4.235	4.111	5.099	5.437	5.278	4.871	3.952
170	4.166	4.104	4.788	5.230	5.119	4.843	4.007
171	4.124	4.159	4.511	5.064	5.002	4.850	4.035
172	3.973	4.297	4.290	4.940	4.933	4.891	4.048
173	3.800	4.422	4.042	4.898	4.933	4.947	4.042
174	3.641	4.415	3.807	4.940	4.988	4.912	4.014
175	3.551	4.249	3.821	4.988	4.988	4.539	3.966
176	3.496	3.897	3.869	4.753	4.712	3.952	3.910
177	3.441	3.572	3.572	4.401	4.028	3.579	3.841
178	3.413	3.413	3.330	3.862	3.482	3.413	3.772
179	3.489	3.385	3.219	3.130	3.330	3.441	3.703
180	3.641	3.641	3.641	3.641	3.641	3.641	3.641



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	442.08	N.A.	10.30
0-30	942.24	N.A.	21.90
0-40	1552.25	N.A.	36.00
0-60	2812.38	N.A.	65.20
0-80	3707.58	N.A.	86.00
0-90	3954.17	N.A.	91.70
10-90	3840.01	N.A.	89.10
20-40	1110.17	N.A.	25.80
20-50	1758.61	N.A.	40.80
40-70	1774.4	N.A.	41.20
60-80	895.20	N.A.	20.80
70-80	380.93	N.A.	8.80
80-90	246.58	N.A.	5.70
90-110	242.58	N.A.	5.60
90-120	296.04	N.A.	6.90
90-130	326.27	N.A.	7.60
90-150	350.82	N.A.	8.10
90-180	356.92	N.A.	8.30
110-180	114.34	N.A.	2.70
0-180	4311.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	114.16
10-20	327.92
20-30	500.16
30-40	610.01
40-50	648.44
50-60	611.69
60-70	514.27
70-80	380.93
80-90	246.58
90-100	151.27
100-110	91.31
110-120	53.46
120-130	30.23
130-140	16.28
140-150	8.27
150-160	3.96
160-170	1.69
170-180	0.45

**IES INDOOR REPORT**  
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	117	117	117	117	113	113	113	113	107	107	107	100	100	100	94	94	94	92
1	105	99	94	90	101	96	92	87	90	87	83	85	82	79	80	78	75	72
2	95	85	78	72	91	83	76	70	78	72	67	73	68	64	69	65	62	59
3	86	74	66	59	83	72	64	58	68	61	56	64	58	53	60	56	52	49
4	78	66	56	49	75	64	55	48	60	53	47	57	50	45	54	48	44	41
5	72	58	49	42	69	57	48	41	54	46	40	51	44	39	48	42	38	35
6	66	52	43	37	64	51	42	36	48	41	35	46	39	34	44	38	33	31
7	61	47	38	32	59	46	38	32	44	36	31	42	35	30	40	34	29	27
8	57	43	34	28	55	42	34	28	40	33	27	38	32	27	36	31	26	24
9	53	40	31	26	51	39	31	25	37	30	25	35	29	24	34	28	24	22
10	50	36	28	23	48	36	28	23	34	27	22	33	26	22	31	25	21	20

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SWLSEL4HT4311LMWT40120-277V\_P.IES**

**UGR TABLE - CORRECTED**

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

X=2H	Y=2H	16.5	18.0	16.9	18.5	19.0	18.5	20.1	19.0	20.6	21.1
	3H	18.0	19.4	18.5	19.8	20.4	21.0	22.4	21.5	22.9	23.5
	4H	18.4	19.8	19.0	20.3	20.8	22.3	23.6	22.8	24.1	24.6
	6H	18.7	19.9	19.2	20.5	21.0	23.5	24.8	24.0	25.3	25.9
	8H	18.8	19.9	19.3	20.5	21.1	24.2	25.4	24.7	25.9	26.5
	12H	18.8	19.9	19.3	20.4	21.1	24.9	26.0	25.5	26.6	27.2

UGR Viewed Endwise

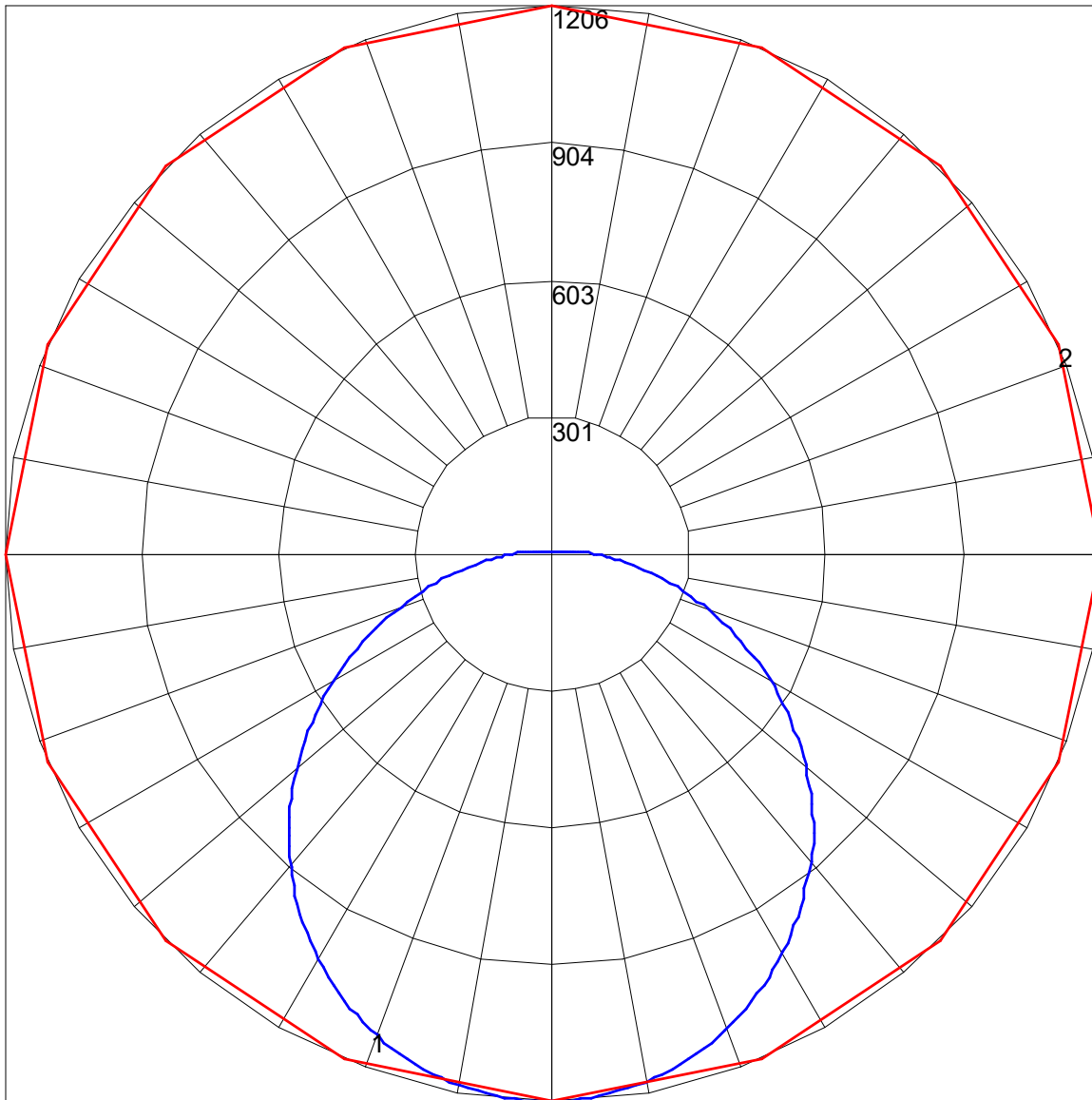
4H	2H	17.3	18.7	17.9	19.2	19.7	19.0	20.3	19.5	20.8	21.4
	3H	19.1	20.2	19.6	20.8	21.3	21.7	22.8	22.2	23.4	23.9
	4H	19.7	20.7	20.2	21.3	21.9	23.1	24.1	23.6	24.6	25.3
	6H	20.1	21.0	20.7	21.6	22.2	24.5	25.4	25.1	26.0	26.7
	8H	20.2	21.0	20.8	21.6	22.3	25.3	26.1	25.9	26.7	27.4
	12H	20.2	21.0	20.8	21.6	22.3	26.1	26.9	26.7	27.5	28.2

8H	4H	20.4	21.3	21.0	21.8	22.5	23.3	24.1	23.8	24.7	25.4
	6H	21.0	21.7	21.6	22.3	23.0	24.9	25.6	25.5	26.3	26.9
	8H	21.1	21.8	21.8	22.4	23.1	25.8	26.5	26.4	27.1	27.7
	12H	21.3	21.9	21.9	22.5	23.2	26.8	27.4	27.4	28.0	28.7

12H	4H	20.6	21.4	21.2	22.0	22.6	23.3	24.1	23.9	24.7	25.3
	6H	21.3	21.9	21.9	22.5	23.2	24.9	25.6	25.6	26.2	26.9
	8H	21.6	22.1	22.2	22.8	23.5	25.9	26.5	26.5	27.1	27.8

Maximum UGR = 28.7

POLAR GRAPH



Maximum Candela = 1205.914 Located At Horizontal Angle = 157.5, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (157.5 - 337.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)