



IES INDOOR REPORT

PHOTOMETRIC FILENAME : SWLSEL4SA1900LMWT50120-277V.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 20:03:52
 [LAMPPOSITION] 0,0
 [OTHER]
 [MANUFAC] BEGHELLI
 [LUMCAT] SWLSEL4SA1900LMWT50120-277V
 [LAMP] LED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1901
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	146
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.32
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	3472	2804	2725
55	3271	2552	2507
65	2958	2289	2308
75	2359	2046	2140
85	1055	1841	2054

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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	527.187	527.187	527.187	527.187	527.187	527.187	527.187	527.187	527.187	527.187
1	527.052	527.121	527.127	527.253	527.328	527.457	527.391	527.265	527.249	527.121
2	526.722	526.795	526.992	527.124	527.137	527.529	527.331	527.334	527.108	526.977
3	526.183	526.318	526.591	526.854	526.864	527.265	527.262	527.137	526.779	526.581
4	525.571	525.775	526.114	526.581	526.525	526.992	526.992	526.864	526.089	525.888
5	524.655	524.793	525.389	525.922	526.001	526.600	526.402	526.340	525.417	524.953
6	523.563	523.764	524.303	524.972	525.383	525.988	525.787	525.458	524.479	524.084
7	522.302	522.700	523.372	524.106	524.589	525.034	524.928	524.595	523.256	522.860
8	520.812	521.354	522.088	523.092	523.645	524.043	523.977	523.648	522.010	521.618
9	519.146	519.751	520.689	521.762	522.512	522.973	522.910	522.386	520.219	520.021
10	517.294	518.179	519.252	520.463	521.153	521.674	521.615	521.019	518.697	518.364
11	515.487	516.372	517.514	518.923	519.873	520.397	520.011	519.349	516.909	516.516
12	513.254	514.148	515.694	517.172	518.129	518.640	518.324	517.602	514.941	514.621
13	510.882	511.911	513.665	515.412	516.563	517.012	516.557	515.767	512.626	512.425
14	508.375	509.467	511.418	513.505	514.712	515.296	514.709	513.589	510.298	509.978
15	505.699	506.913	508.990	511.283	512.582	513.235	512.441	511.315	507.631	507.314
16	502.809	504.083	506.568	509.118	510.558	511.023	510.289	508.820	504.943	504.481
17	499.769	501.382	503.841	506.533	508.111	508.773	507.713	506.097	501.884	501.633
18	496.522	498.009	501.068	504.030	505.677	506.128	505.071	503.261	498.778	498.451
19	493.133	494.887	497.899	501.190	503.154	503.606	502.226	500.221	495.496	495.151
20	489.544	491.386	494.733	498.169	500.277	500.647	499.198	497.124	491.994	491.605
21	485.776	487.947	491.530	495.235	497.501	497.930	496.092	493.799	488.201	488.026
22	481.905	484.063	488.051	492.085	494.288	494.856	492.933	490.190	484.317	484.066
23	477.908	480.201	484.320	488.760	491.166	491.483	489.488	486.460	480.314	480.264
24	473.722	476.085	480.615	485.334	487.806	487.979	485.851	482.623	475.962	476.113
25	469.292	471.843	476.722	481.629	484.433	484.593	482.146	478.604	471.586	471.683
26	464.665	467.510	472.659	477.845	480.904	480.995	478.212	474.265	467.068	467.190
27	459.908	463.086	468.555	474.011	477.089	477.239	474.127	469.907	462.296	462.519
28	455.058	458.299	464.307	470.174	473.252	473.333	470.083	465.389	457.307	457.653
29	449.991	453.367	459.704	465.841	469.129	469.142	465.618	460.727	452.250	452.611
30	444.871	448.529	455.196	461.800	465.151	464.960	461.301	455.943	447.089	447.538
31	439.660	443.402	450.399	457.220	460.966	460.759	456.589	450.832	441.758	442.326
32	434.109	438.238	445.781	452.739	456.755	456.473	452.030	445.881	436.089	436.808
33	428.374	432.845	440.786	448.203	452.241	451.899	447.186	440.478	430.517	431.421
34	422.686	427.148	435.662	443.547	447.588	447.318	442.345	435.095	424.773	425.629
35	416.697	421.503	430.508	438.803	443.111	442.508	437.187	429.545	418.874	419.825
36	410.613	415.527	424.976	433.749	438.263	437.507	431.791	423.568	413.603	414.146
37	404.433	409.973	419.709	428.876	433.592	433.027	426.583	417.867	408.329	409.029
38	397.948	403.573	414.030	423.609	428.334	427.433	420.870	411.730	403.049	403.909
39	391.529	397.505	408.408	418.523	423.514	422.476	415.385	405.697	396.319	398.102
40	384.972	391.206	402.666	413.142	418.275	417.095	409.770	399.300	389.524	391.413
41	378.214	384.721	396.865	407.812	413.139	411.806	403.959	392.947	382.527	384.686
42	371.393	378.336	390.895	402.299	407.843	406.453	398.208	386.465	375.415	377.746
43	364.538	371.719	384.793	396.586	402.350	400.687	391.980	379.767	368.158	370.838
44	357.256	364.886	378.803	391.017	396.919	395.312	385.928	373.112	360.760	363.574
45	350.080	357.968	372.438	385.216	391.240	389.405	379.566	366.147	353.337	356.374
46	342.777	351.166	366.166	379.544	385.740	383.842	373.674	359.264	345.745	349.011
47	335.225	344.050	360.007	373.555	379.992	378.022	367.264	352.098	337.832	341.540
48	327.717	336.925	353.472	367.753	374.345	372.234	360.763	344.841	330.083	333.989
49	319.971	329.650	346.862	361.720	368.484	366.185	354.407	337.631	322.170	326.330
50	312.347	322.431	340.502	355.963	362.718	360.145	347.627	330.262	314.060	318.603
51	304.510	315.004	333.750	349.673	356.923	354.190	341.151	322.851	305.887	310.647
52	296.497	307.616	327.165	343.614	350.946	348.073	334.466	315.227	297.573	302.897
53	288.625	300.045	320.479	337.462	344.932	341.870	327.761	307.628	289.209	294.900

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CANDELA TABULATION - (Cont.)

54	280.342	292.334	313.502	331.055	338.867	335.595	320.947	299.964	280.640	286.730
55	272.342	284.738	306.976	325.019	332.884	329.386	314.073	292.255	272.176	278.799
56	263.965	277.051	300.067	318.713	326.986	323.249	307.315	284.415	263.513	270.456
57	255.475	269.412	293.177	312.259	320.489	316.614	300.186	276.461	254.700	262.243
58	247.092	261.621	286.460	306.301	314.669	310.565	293.516	268.800	245.994	253.979
59	238.537	253.624	279.307	299.769	308.472	304.231	286.501	260.718	237.090	245.618
60	230.131	245.737	272.637	293.642	302.552	297.956	279.690	252.633	227.970	237.325
61	221.350	237.969	265.753	287.354	296.406	291.747	272.828	244.548	218.991	228.807
62	212.596	229.840	258.807	280.920	290.125	285.328	265.753	236.591	209.889	220.500
63	203.715	221.974	251.965	274.974	284.170	279.100	258.895	228.487	200.693	212.145
64	195.256	213.892	245.009	268.524	277.989	272.775	251.830	220.245	191.632	203.724
65	186.804	205.958	238.373	262.415	272.204	266.701	245.116	212.270	182.270	195.416
66	178.352	198.444	231.430	256.049	265.945	260.363	238.129	203.944	172.949	186.895
67	169.341	190.936	224.738	249.972	260.056	254.189	231.437	196.332	163.587	178.622
68	160.412	183.428	217.961	243.839	253.994	247.933	224.534	188.737	154.244	170.342
69	151.220	175.478	211.169	237.849	247.946	241.828	217.811	181.141	144.873	162.116
70	142.074	167.421	204.580	231.716	242.079	235.754	211.097	173.213	135.539	154.081
71	133.007	159.556	198.497	225.610	236.315	229.651	204.254	164.980	126.243	145.955
72	123.915	151.646	192.423	219.574	230.285	223.678	198.208	157.121	116.868	138.080
73	114.961	143.969	186.349	213.720	224.569	217.626	192.172	149.375	107.575	130.124
74	105.950	136.298	179.986	207.768	218.689	211.668	186.136	141.497	98.376	122.534
75	97.040	128.740	173.586	201.914	213.001	205.904	179.829	133.929	89.278	115.064
76	88.255	121.377	167.349	196.699	207.257	200.941	173.332	126.309	80.295	107.660
77	79.367	113.963	161.175	191.504	201.685	195.529	167.170	118.923	71.395	100.638
78	70.940	106.941	155.094	186.311	196.718	190.101	160.986	111.795	62.820	93.595
79	62.475	99.967	149.177	180.670	191.761	184.366	154.962	104.739	54.462	87.025
80	54.315	93.225	143.323	175.177	186.801	178.863	149.099	97.956	46.393	80.578
81	46.528	86.793	137.691	169.699	181.273	173.241	143.106	91.311	38.330	74.479
82	38.866	80.402	132.031	164.384	176.068	167.936	137.591	85.039	31.098	68.624
83	31.694	74.413	126.437	158.985	170.712	162.511	131.830	78.749	24.346	63.049
84	24.999	68.565	121.157	153.852	165.633	157.334	126.481	72.976	18.206	57.907
85	18.862	63.106	115.858	148.713	160.378	152.079	121.063	67.429	12.669	52.893
86	13.676	57.872	110.772	143.646	155.417	146.975	115.858	62.030	8.851	48.526
87	8.493	52.988	105.875	138.883	150.498	141.989	110.829	57.101	5.036	44.162
88	4.537	48.407	101.005	133.923	145.660	137.073	105.909	52.366	1.230	39.823
89	1.713	44.059	96.393	129.280	140.919	132.361	101.194	47.943	0.107	36.231
90	0.897	40.058	91.791	124.555	136.195	127.498	96.450	43.861	0.075	32.949
91	0.151	36.422	87.524	120.131	131.783	123.074	92.080	40.093	0.078	29.906
92	0.135	33.015	83.251	115.632	127.156	118.496	87.668	36.548	0.082	27.201
93	0.141	29.956	79.216	111.343	122.788	114.173	83.524	33.341	0.091	24.723
94	0.157	27.186	75.326	107.192	118.456	109.837	79.549	30.448	0.104	22.536
95	0.173	24.644	71.511	102.985	114.277	105.708	75.608	27.782	0.110	20.541
96	0.182	22.420	67.962	99.079	110.223	101.683	71.959	25.369	0.119	18.759
97	0.195	20.352	64.414	95.088	106.151	97.648	68.298	23.182	0.132	17.206
98	0.216	18.702	61.198	91.414	102.307	93.865	64.913	21.218	0.147	15.772
99	0.235	17.061	57.976	87.700	98.452	90.031	61.581	19.596	0.160	14.558
100	0.254	15.417	54.948	84.098	94.749	86.439	58.491	17.987	0.176	13.447
101	0.273	14.162	52.090	80.703	91.163	82.909	55.441	16.377	0.188	12.462
102	0.289	13.030	49.295	77.252	87.530	79.445	52.580	15.135	0.198	11.599
103	0.307	12.057	46.725	74.074	84.183	76.198	49.885	14.008	0.210	10.799
104	0.326	11.157	44.259	70.871	80.794	72.891	47.259	13.005	0.223	10.109
105	0.351	10.369	41.906	67.868	77.626	69.876	44.855	12.123	0.229	9.469
106	0.367	9.651	39.654	64.872	74.391	66.802	42.443	11.295	0.216	8.891
107	0.373	9.029	37.589	62.164	71.479	64.025	40.334	10.582	0.223	8.374
108	0.392	8.452	35.591	59.335	68.442	61.154	38.185	9.933	0.229	7.894
109	0.414	7.941	33.705	56.737	65.656	58.440	36.180	9.321	0.242	7.464

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CANDELA TABULATION - (Cont.)

110	0.439	7.476	31.914	54.214	62.864	55.902	34.314	8.785	0.254	7.069
111	0.461	7.047	30.257	51.748	60.200	53.355	32.529	8.286	0.270	6.705
112	0.486	6.664	28.657	49.461	57.637	51.011	30.856	7.828	0.286	6.372
113	0.508	6.316	27.201	47.139	55.105	48.674	29.291	7.420	0.295	6.068
114	0.524	5.999	25.799	45.059	52.815	46.487	27.794	7.037	0.311	5.779
115	0.546	5.707	24.456	42.913	50.390	44.331	26.367	6.686	0.326	5.525
116	0.568	5.440	23.214	40.962	48.212	42.258	25.014	6.369	0.339	5.283
117	0.587	5.205	22.031	39.045	46.032	40.341	23.769	6.074	0.355	5.051
118	0.606	4.979	20.904	37.191	43.958	38.433	22.570	5.804	0.370	4.857
119	0.627	4.785	19.872	35.500	41.978	36.648	21.438	5.559	0.389	4.653
120	0.649	4.596	18.846	33.771	40.046	34.935	20.396	5.334	0.408	4.483
121	0.668	4.430	17.817	32.209	38.235	33.275	19.392	5.120	0.427	4.314
122	0.687	4.276	16.933	30.671	36.453	31.691	18.391	4.929	0.446	4.160
123	0.712	4.129	16.070	29.184	34.744	30.201	17.387	4.747	0.467	4.016
124	0.734	4.006	15.301	27.841	33.131	28.726	16.515	4.577	0.489	3.875
125	0.756	3.878	14.542	26.495	31.581	27.402	15.725	4.433	0.511	3.734
126	0.778	3.774	13.820	25.187	30.072	26.050	14.947	4.283	0.533	3.614
127	0.800	3.674	13.183	24.039	28.698	24.817	14.219	4.151	0.562	3.498
128	0.828	3.573	12.499	22.793	27.261	23.578	13.522	4.028	0.587	3.392
129	0.853	3.498	11.932	21.742	25.984	22.461	12.876	3.919	0.615	3.288
130	0.878	3.417	11.329	20.641	24.701	21.344	12.242	3.815	0.640	3.191
131	0.913	3.348	10.793	19.618	23.505	20.315	11.665	3.724	0.671	3.100
132	0.941	3.285	10.288	18.595	22.341	19.301	11.072	3.627	0.693	3.009
133	0.969	3.213	9.776	17.576	21.215	18.288	10.557	3.548	0.722	2.908
134	1.001	3.159	9.327	16.700	20.048	17.275	10.046	3.470	0.753	2.761
135	1.035	3.103	8.882	15.853	19.031	16.393	9.557	3.392	0.775	2.695
136	1.067	3.056	8.480	15.028	18.015	15.552	9.130	3.329	0.800	2.639
137	1.095	3.012	8.107	14.291	17.133	14.777	8.703	3.260	0.825	2.588
138	1.136	2.974	7.740	13.535	16.202	13.983	8.302	3.203	0.857	2.541
139	1.177	2.949	7.417	12.863	15.389	13.290	7.950	3.166	0.888	2.485
140	1.214	2.921	7.103	12.189	14.551	12.575	7.583	3.115	0.910	2.422
141	1.249	2.899	6.818	11.568	13.773	11.941	7.279	3.090	0.938	2.359
142	1.293	2.874	6.529	10.975	13.045	11.329	6.968	3.059	0.973	2.284
143	1.337	2.855	6.272	10.413	12.343	10.736	6.680	3.034	0.998	2.218
144	1.355	2.839	6.018	9.892	11.696	10.200	6.403	3.012	1.010	2.155
145	1.371	2.824	5.773	9.381	11.059	9.660	6.121	2.990	1.013	2.096
146	1.390	2.817	5.559	8.920	10.466	9.171	5.883	2.946	1.017	2.049
147	1.412	2.805	5.334	8.449	9.905	8.694	5.647	2.861	1.029	1.980
148	1.443	2.799	5.148	8.032	9.362	8.248	5.431	2.849	1.042	1.945
149	1.468	2.786	4.960	7.621	8.863	7.828	5.227	2.842	1.054	1.892
150	1.490	2.777	4.791	7.235	8.374	7.433	5.026	2.821	1.067	1.870
151	1.509	2.767	4.634	6.874	7.925	7.056	4.847	2.802	1.086	1.829
152	1.525	2.755	4.474	6.532	7.502	6.714	4.678	2.761	1.101	1.769
153	1.547	2.751	4.336	6.215	7.094	6.372	4.508	2.739	1.117	1.722
154	1.566	2.745	4.198	5.911	6.730	6.061	4.361	2.679	1.139	1.694
155	1.584	2.742	4.072	5.622	6.363	5.760	4.214	2.645	1.158	1.682
156	1.603	2.739	3.950	5.362	6.033	5.472	4.085	2.617	1.177	1.669
157	1.619	2.739	3.837	5.105	5.707	5.211	3.956	2.613	1.195	1.666
158	1.631	2.739	3.734	4.876	5.412	4.963	3.834	2.582	1.211	1.660
159	1.644	2.736	3.630	4.656	5.133	4.731	3.696	2.573	1.230	1.644
160	1.650	2.733	3.536	4.452	4.869	4.521	3.567	2.532	1.242	1.597
161	1.653	2.726	3.439	4.254	4.618	4.311	3.432	2.507	1.255	1.528
162	1.657	2.726	3.354	4.075	4.395	4.123	3.269	2.450	1.268	1.459
163	1.653	2.723	3.266	3.903	4.179	3.941	3.141	2.413	1.277	1.393
164	1.650	2.723	3.178	3.743	3.981	3.771	3.002	2.403	1.286	1.346
165	1.641	2.720	3.093	3.592	3.799	3.614	2.880	2.400	1.296	1.318

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CANDELA TABULATION - (Cont.)

166	1.635	2.717	3.015	3.448	3.627	3.464	2.714	2.403	1.311	1.302
167	1.628	2.711	2.946	3.319	3.470	3.323	2.573	2.413	1.333	1.318
168	1.635	2.692	2.883	3.191	3.326	3.162	2.482	2.425	1.362	1.349
169	1.647	2.657	2.833	3.072	3.181	3.006	2.460	2.391	1.396	1.380
170	1.669	2.598	2.786	2.971	3.053	2.855	2.435	2.334	1.424	1.415
171	1.685	2.513	2.751	2.883	2.937	2.708	2.425	2.284	1.449	1.440
172	1.691	2.344	2.723	2.811	2.842	2.554	2.416	2.224	1.468	1.465
173	1.688	2.180	2.698	2.755	2.758	2.444	2.400	2.140	1.490	1.487
174	1.675	2.071	2.651	2.717	2.701	2.341	2.366	2.055	1.506	1.506
175	1.663	1.964	2.544	2.679	2.661	2.237	2.268	1.964	1.503	1.506
176	1.644	1.854	2.309	2.591	2.607	2.152	2.105	1.867	1.503	1.503
177	1.616	1.748	2.093	2.397	2.450	1.983	1.942	1.754	1.506	1.506
178	1.584	1.675	1.879	2.096	2.218	1.810	1.782	1.663	1.509	1.512
179	1.562	1.616	1.666	1.791	1.980	1.603	1.613	1.619	1.522	1.522
180	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540	1.540

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	527.187	527.187	527.187	527.187	527.187	527.187	527.187
1	526.989	527.184	526.791	526.986	526.917	526.722	527.052
2	526.845	526.832	526.509	526.641	526.236	526.242	526.722
3	526.315	526.107	525.916	526.114	525.709	525.514	526.183
4	525.687	525.681	525.223	525.213	524.749	524.614	525.571
5	524.884	524.812	524.416	524.212	523.877	523.478	524.655
6	523.883	523.808	523.281	523.278	522.744	522.280	523.563
7	522.725	522.782	522.258	521.916	521.445	520.714	522.302
8	521.483	521.411	520.893	520.604	519.801	519.130	520.812
9	519.955	519.939	519.619	519.077	518.142	517.335	519.146
10	518.233	518.229	517.906	517.288	516.341	515.538	517.294
11	516.579	516.642	516.253	515.566	514.295	513.360	515.487
12	514.615	514.807	514.417	513.595	512.196	511.060	513.254
13	512.548	512.623	512.171	511.475	509.934	508.660	510.882
14	509.962	510.430	509.909	509.150	507.418	506.016	508.375
15	507.644	507.980	507.669	506.630	504.626	503.151	505.699
16	505.071	505.473	505.228	504.058	501.921	500.227	502.809
17	502.222	502.627	502.382	501.140	498.872	496.930	499.769
18	499.251	499.982	499.612	498.439	495.888	493.623	496.522
19	496.142	496.820	496.650	495.323	492.525	490.307	493.133
20	492.791	493.676	493.573	491.794	489.055	486.507	489.544
21	489.143	490.489	490.322	488.597	485.456	482.717	485.776
22	485.582	486.868	486.902	484.973	481.839	478.686	481.905
23	481.854	483.329	483.433	481.434	477.970	474.485	477.908
24	477.697	479.589	479.564	477.622	473.892	470.271	473.722
25	473.716	475.740	475.849	473.641	469.666	465.894	469.292
26	469.449	471.761	471.931	469.515	465.402	461.276	464.665
27	465.170	467.542	467.858	465.440	460.840	456.470	459.908
28	460.564	463.268	463.657	461.166	456.316	451.422	455.058
29	455.855	458.763	459.356	456.724	451.535	446.634	449.991
30	451.117	454.299	454.882	452.131	446.941	441.423	444.871
31	446.113	449.627	450.283	447.588	441.796	436.095	439.660
32	441.253	445.040	445.909	442.866	436.801	430.696	434.109
33	436.077	440.114	441.059	438.075	431.483	425.111	428.374
34	430.473	435.135	436.215	432.961	426.166	419.326	422.686
35	425.146	430.072	431.173	427.910	420.788	413.823	416.697
36	419.577	424.845	426.131	422.718	415.621	408.938	410.613

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CANDELA TABULATION - (Cont.)

37	414.306	419.709	420.998	417.528	410.839	404.050	404.433
38	409.327	414.479	415.897	413.170	406.055	398.478	397.948
39	404.348	409.882	411.577	408.813	401.245	392.028	391.529
40	399.366	405.283	407.260	404.448	395.112	385.357	384.972
41	393.050	400.665	402.914	398.616	388.878	378.675	378.214
42	386.914	395.002	397.305	393.022	382.816	371.904	371.393
43	380.341	388.852	391.378	387.001	376.347	364.898	364.538
44	373.815	383.029	385.809	380.990	369.950	358.068	357.256
45	367.264	376.896	379.810	375.045	363.414	350.934	350.080
46	360.481	370.709	373.887	368.845	356.867	343.686	342.777
47	353.864	364.632	367.935	362.828	350.338	336.273	335.225
48	346.978	358.257	361.890	356.562	343.486	329.003	327.717
49	340.041	352.073	355.960	350.369	336.778	321.464	319.971
50	333.139	345.619	349.742	344.047	329.829	313.909	312.347
51	326.035	339.307	343.680	337.801	323.071	306.260	304.510
52	319.083	332.815	337.383	331.394	316.112	298.436	296.497
53	311.820	326.409	331.259	325.025	309.235	290.690	288.625
54	304.773	319.867	324.950	318.663	302.257	282.965	280.342
55	297.673	313.599	318.766	312.212	295.176	275.119	272.342
56	290.442	307.001	312.563	305.856	288.183	267.059	263.965
57	283.260	300.601	306.292	299.462	281.095	259.021	255.475
58	276.057	294.068	300.136	293.096	274.080	250.986	247.092
59	268.790	287.499	293.777	286.630	266.977	243.029	238.537
60	261.669	280.998	287.656	280.132	259.899	234.812	230.131
61	254.415	274.541	281.312	273.738	252.824	226.709	221.350
62	247.309	268.188	275.137	267.360	245.894	218.670	212.596
63	240.042	261.631	268.875	260.978	238.788	210.385	203.715
64	233.008	255.344	262.732	254.719	231.961	202.384	195.256
65	225.799	248.975	256.599	248.372	224.905	194.265	186.804
66	218.758	242.574	250.440	242.028	218.012	186.089	178.352
67	211.872	236.278	244.463	235.863	211.185	178.073	169.341
68	204.951	230.138	238.442	229.717	204.524	170.097	160.412
69	198.117	223.816	232.456	223.540	197.826	162.081	151.220
70	191.378	217.861	226.602	217.528	191.196	154.260	142.074
71	184.664	211.765	220.644	211.593	184.746	146.495	133.007
72	178.182	205.798	214.799	205.584	178.164	138.780	123.915
73	171.500	199.749	209.014	199.724	171.795	131.131	114.961
74	165.231	193.891	203.401	193.929	165.535	123.742	105.950
75	158.941	188.250	197.822	188.169	159.367	116.441	97.040
76	152.735	182.374	192.053	182.503	153.353	109.335	88.255
77	146.874	176.940	186.832	177.078	147.439	102.395	79.367
78	140.794	171.271	181.235	171.428	141.594	95.622	70.940
79	135.143	165.865	176.030	166.128	135.953	89.118	62.475
80	129.506	160.487	170.697	160.751	130.315	82.837	54.315
81	123.934	155.144	165.438	155.515	124.956	76.769	46.528
82	118.682	150.093	160.425	150.482	119.642	71.037	38.866
83	113.273	144.932	155.286	145.334	114.496	65.628	31.694
84	108.334	140.047	150.551	140.468	109.549	60.367	24.999
85	103.293	135.156	145.673	135.636	104.573	55.510	18.862
86	98.555	130.387	140.954	130.886	99.917	50.885	13.676
87	94.072	125.750	136.314	126.274	95.314	46.794	8.493
88	89.491	121.257	131.749	121.788	90.975	42.706	4.537
89	85.262	116.749	127.287	117.326	86.693	38.625	1.713
90	81.174	112.507	122.923	113.078	82.592	35.330	0.897
91	77.186	108.259	118.707	108.840	78.683	32.215	0.151
92	73.437	104.180	114.506	104.773	74.836	29.360	0.135

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CANDELA TABULATION - (Cont.)

93	69.782	100.209	110.480	100.795	71.235	26.840	0.141
94	66.343	96.343	106.534	96.961	67.758	24.516	0.157
95	62.977	92.569	102.671	93.127	64.370	22.385	0.173
96	59.802	88.926	98.900	89.526	61.223	20.534	0.182
97	56.749	85.362	95.261	86.012	58.127	18.828	0.195
98	53.850	81.921	91.631	82.514	55.196	17.300	0.216
99	51.133	78.623	88.205	79.251	52.423	15.969	0.235
100	48.467	75.304	84.810	75.913	49.765	14.733	0.254
101	46.016	72.295	81.576	72.882	47.265	13.692	0.273
102	43.566	69.195	78.350	69.801	44.764	12.706	0.289
103	41.116	66.328	75.279	66.927	42.264	11.853	0.307
104	38.985	63.492	72.286	64.088	40.118	11.084	0.326
105	36.993	60.775	69.393	61.361	38.066	10.363	0.351
106	35.136	58.199	66.594	58.751	36.187	9.757	0.367
107	33.341	55.664	63.830	56.191	34.320	9.155	0.373
108	31.669	53.242	61.226	53.788	32.648	8.656	0.392
109	30.106	50.976	58.723	51.478	31.001	8.167	0.414
110	28.594	48.696	56.207	49.182	29.466	7.721	0.439
111	27.201	46.553	53.894	47.030	28.023	7.335	0.461
112	25.852	44.410	51.598	44.877	26.640	6.943	0.486
113	24.613	42.270	49.455	42.731	25.375	6.623	0.508
114	23.411	40.378	47.340	40.808	24.120	6.303	0.524
115	22.291	38.593	45.273	38.976	22.963	6.011	0.546
116	21.234	36.871	43.205	37.288	21.874	5.748	0.568
117	20.192	35.211	41.141	35.550	20.810	5.484	0.587
118	19.264	33.630	39.359	34.003	19.841	5.265	0.606
119	18.329	32.089	37.617	32.460	18.871	5.036	0.627
120	17.482	30.684	35.986	30.994	18.002	4.844	0.649
121	16.631	29.241	34.361	29.586	17.133	4.653	0.668
122	15.850	27.948	32.836	28.233	16.327	4.480	0.687
123	15.091	26.633	31.346	26.935	15.540	4.317	0.712
124	14.401	25.435	29.946	25.695	14.802	4.160	0.734
125	13.698	24.233	28.541	24.478	14.096	4.010	0.756
126	13.058	23.094	27.270	23.370	13.428	3.856	0.778
127	12.437	22.021	25.981	22.238	12.788	3.702	0.800
128	11.806	20.948	24.751	21.203	12.176	3.577	0.828
129	11.263	19.973	23.621	20.214	11.621	3.476	0.853
130	10.692	18.962	22.436	19.188	11.044	3.373	0.878
131	10.184	18.046	21.394	18.310	10.526	3.275	0.913
132	9.682	17.149	20.330	17.372	10.011	3.191	0.941
133	9.196	16.258	19.314	16.509	9.525	3.106	0.969
134	8.750	15.471	18.379	15.709	9.089	3.037	1.001
135	8.286	14.636	17.409	14.893	8.650	2.968	1.035
136	7.869	13.874	16.525	14.178	8.273	2.908	1.067
137	7.448	13.121	15.637	13.431	7.884	2.852	1.095
138	7.062	12.412	14.809	12.757	7.527	2.799	1.136
139	6.705	11.743	14.040	12.117	7.197	2.751	1.177
140	6.325	11.059	13.240	11.464	6.868	2.704	1.214
141	5.992	10.444	12.528	10.899	6.589	2.657	1.249
142	5.654	9.808	11.815	10.319	6.322	2.629	1.293
143	5.340	9.240	11.150	9.798	6.061	2.598	1.337
144	5.036	8.672	10.526	9.306	5.839	2.582	1.355
145	4.731	8.135	9.886	8.804	5.607	2.573	1.371
146	4.458	7.614	9.312	8.355	5.403	2.557	1.390
147	4.204	7.119	8.741	7.909	5.211	2.551	1.412
148	3.953	6.664	8.211	7.495	5.029	2.541	1.443

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CANDELA TABULATION - (Cont.)

149	3.699	6.215	7.702	7.100	4.866	2.535	1.468
150	3.476	5.817	7.213	6.717	4.697	2.532	1.490
151	3.294	5.443	6.767	6.369	4.537	2.529	1.509
152	3.100	5.089	6.334	6.024	4.377	2.529	1.525
153	2.839	4.759	5.923	5.694	4.229	2.526	1.547
154	2.723	4.458	5.547	5.399	4.079	2.529	1.566
155	2.566	4.179	5.189	5.101	3.928	2.522	1.584
156	2.457	3.897	4.850	4.828	3.777	2.522	1.603
157	2.271	3.617	4.543	4.549	3.643	2.513	1.619
158	2.174	3.388	4.264	4.301	3.511	2.501	1.631
159	2.071	3.197	3.988	4.066	3.385	2.491	1.644
160	1.980	3.002	3.712	3.831	3.257	2.463	1.650
161	1.908	2.824	3.483	3.595	3.134	2.435	1.653
162	1.864	2.654	3.285	3.401	3.015	2.400	1.657
163	1.807	2.431	3.103	3.216	2.902	2.362	1.653
164	1.760	2.271	2.943	3.056	2.795	2.325	1.650
165	1.763	2.077	2.799	2.908	2.695	2.287	1.641
166	1.782	2.005	2.676	2.773	2.607	2.253	1.635
167	1.820	1.923	2.563	2.654	2.522	2.218	1.628
168	1.848	1.857	2.425	2.544	2.438	2.190	1.635
169	1.848	1.823	2.281	2.431	2.353	2.159	1.647
170	1.835	1.813	2.143	2.334	2.281	2.133	1.669
171	1.851	1.807	2.011	2.253	2.221	2.124	1.685
172	1.839	1.860	1.901	2.193	2.177	2.130	1.691
173	1.798	1.917	1.766	2.159	2.162	2.162	1.688
174	1.726	1.945	1.697	2.162	2.171	2.174	1.675
175	1.650	1.926	1.663	2.184	2.193	2.068	1.663
176	1.594	1.829	1.732	2.143	2.155	1.879	1.644
177	1.547	1.663	1.672	2.049	1.876	1.663	1.616
178	1.509	1.544	1.509	1.782	1.603	1.540	1.584
179	1.506	1.484	1.409	1.387	1.465	1.487	1.562
180	1.540	1.540	1.540	1.540	1.540	1.540	1.540

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	193.48	N.A.	10.20
0-30	412.67	N.A.	21.70
0-40	680.70	N.A.	35.80
0-60	1235.56	N.A.	65.00
0-80	1631.26	N.A.	85.80
0-90	1740.94	N.A.	91.60
10-90	1691.01	N.A.	89.00
20-40	487.22	N.A.	25.60
20-50	772.56	N.A.	40.60
40-70	781.91	N.A.	41.10
60-80	395.70	N.A.	20.80
70-80	168.64	N.A.	8.90
80-90	109.68	N.A.	5.80
90-110	108.51	N.A.	5.70
90-120	132.47	N.A.	7.00
90-130	146.01	N.A.	7.70
90-150	156.97	N.A.	8.30
90-180	159.68	N.A.	8.40
110-180	51.17	N.A.	2.70
0-180	1900.61	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	49.93
10-20	143.55
20-30	219.19
30-40	268.03
40-50	285.33
50-60	269.52
60-70	227.06
70-80	168.64
80-90	109.68
90-100	67.60
100-110	40.90
110-120	23.97
120-130	13.54
130-140	7.27
140-150	3.69
150-160	1.76
160-170	0.75
170-180	0.20

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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	106	106	106	100	100	100	94	94	94	92
1	105	99	94	90	101	96	91	87	90	86	83	85	82	79	80	77	75	72
2	94	85	78	71	91	83	76	70	78	72	67	73	68	64	69	65	61	59
3	86	74	66	59	82	72	64	57	68	61	55	64	58	53	60	55	51	49
4	78	66	56	49	75	64	55	48	60	53	47	57	50	45	53	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	36	64	51	42	36	48	41	35	46	39	34	43	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	31	27	36	30	26	24
9	53	39	31	25	51	39	31	25	37	30	25	35	29	24	33	28	23	21
10	50	36	28	23	48	36	28	23	34	27	22	32	26	22	31	25	21	19

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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	13.5	15.1	14.0	15.5	16.0	15.9	17.4	16.4	17.9	18.4
	3H	15.0	16.4	15.5	16.9	17.5	18.4	19.8	18.9	20.3	20.8
	4H	15.5	16.8	16.0	17.3	17.9	19.6	21.0	20.2	21.5	22.0
	6H	15.8	17.0	16.3	17.5	18.1	21.0	22.2	21.5	22.7	23.3
	8H	15.8	17.0	16.4	17.6	18.2	21.6	22.8	22.2	23.4	23.9
	12H	15.8	17.0	16.4	17.5	18.1	22.4	23.5	22.9	24.0	24.7

UGR Viewed Endwise

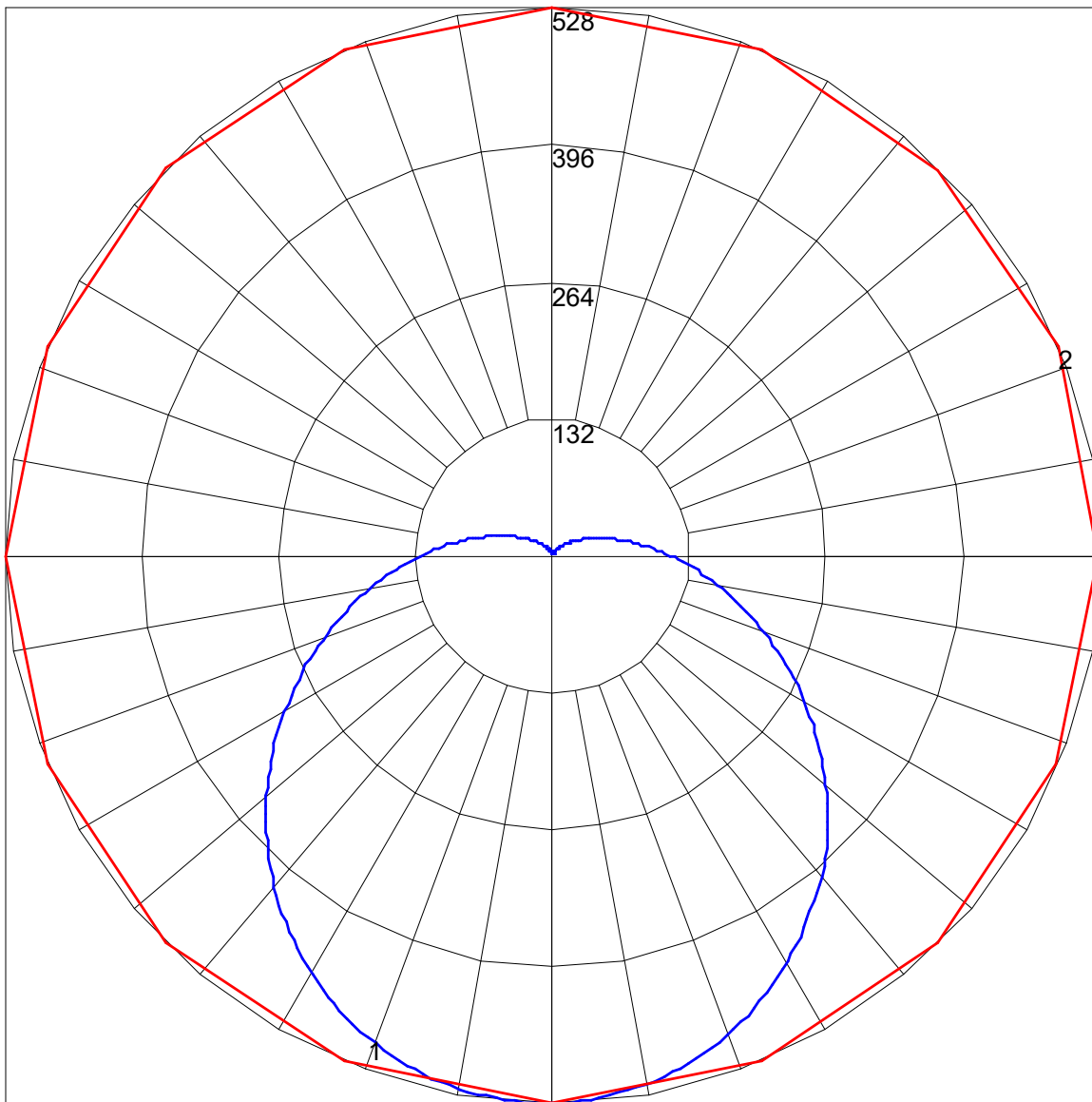
4H	2H	14.4	15.8	14.9	16.3	16.8	16.3	17.6	16.8	18.1	18.7
	3H	16.2	17.3	16.7	17.8	18.4	19.1	20.2	19.6	20.7	21.3
	4H	16.8	17.8	17.3	18.4	19.0	20.5	21.5	21.0	22.1	22.7
	6H	17.2	18.1	17.8	18.7	19.3	22.0	22.9	22.6	23.5	24.1
	8H	17.3	18.1	17.9	18.7	19.4	22.8	23.6	23.3	24.2	24.8
	12H	17.3	18.1	17.9	18.7	19.4	23.6	24.4	24.2	25.0	25.6

8H	4H	17.5	18.4	18.1	18.9	19.6	20.7	21.6	21.3	22.2	22.8
	6H	18.1	18.8	18.7	19.4	20.1	22.4	23.1	23.0	23.7	24.4
	8H	18.3	18.9	18.9	19.6	20.2	23.3	23.9	23.9	24.6	25.2
	12H	18.4	19.0	19.0	19.6	20.3	24.3	24.9	24.9	25.5	26.2

12H	4H	17.7	18.5	18.3	19.1	19.7	20.7	21.5	21.3	22.1	22.8
	6H	18.4	19.1	19.0	19.7	20.4	22.4	23.1	23.0	23.7	24.4
	8H	18.7	19.3	19.3	19.9	20.6	23.4	24.0	24.0	24.6	25.3

Maximum UGR = 26.2

POLAR GRAPH



Maximum Candela = 527.529 Located At Horizontal Angle = 112.5, Vertical Angle = 2
1 - Vertical Plane Through Horizontal Angles (112.5 - 292.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2) (Through Max. Cd.)