



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BLS-6A-4000°K-P.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] -
 [TESTLAB] BEGHELLI
 [TESTDATE] 2017/2/14
 [ISSUEDATE] 2017/2/14 15:09:47
 [NEARFIELD]
 [LAMPPOSITION] "0,0"
 [OTHER]
 [MANUFAC] BEGHELLI
 [LUMCAT] BLS-6A - 4000°K
 [BALLAST] -
 [BALLASTCAT] -

CHARACTERISTICS

Lumens Per Lamp	4091 (1 lamp)
Total Lamp Lumens	4091
Luminaire Lumens	4091
Total Luminaire Efficiency	100 %
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	48.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.36
Spacing Criterion (90-270)	1.50
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Point
Luminous Length (0-180)	0.00 m
Luminous Width (90-270)	0.00 m
Luminous Height	0.00 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	1394.940	1394.940	1394.940	1394.940	1394.940	1394.940	1394.940	1394.940	1394.940	1394.940
1	1393.926	1394.294	1398.753	1398.954	1402.228	1401.531	1399.449	1396.624	1395.847	1389.547
2	1390.404	1391.757	1398.345	1394.990	1399.001	1399.041	1393.109	1387.498	1386.849	1380.830
3	1386.072	1385.537	1390.859	1383.696	1390.444	1389.996	1382.430	1370.359	1371.959	1369.950
4	1382.430	1378.828	1383.207	1374.041	1378.259	1381.446	1372.856	1350.066	1358.167	1355.917
5	1380.301	1375.266	1377.764	1367.868	1372.528	1379.893	1362.057	1331.902	1342.420	1348.968
6	1374.818	1372.649	1377.436	1365.860	1374.490	1382.718	1355.101	1313.617	1311.408	1328.715
7	1367.500	1368.397	1381.366	1365.411	1382.879	1394.374	1347.615	1278.843	1266.490	1291.403
8	1363.858	1366.677	1387.746	1365.371	1394.495	1413.931	1328.467	1249.511	1232.900	1258.677
9	1362.465	1366.677	1391.877	1364.675	1405.053	1418.638	1296.150	1230.490	1213.391	1235.478
10	1363.818	1370.439	1395.031	1365.371	1417.814	1411.762	1257.652	1209.749	1205.002	1210.893
11	1366.844	1375.353	1397.113	1368.645	1425.795	1394.863	1220.548	1182.868	1176.855	1174.726
12	1373.753	1379.565	1398.954	1370.807	1421.664	1370.071	1189.496	1148.053	1141.103	1129.688
13	1377.643	1380.589	1398.793	1371.544	1415.444	1338.490	1164.663	1118.969	1119.297	1104.039
14	1380.710	1384.760	1398.793	1372.240	1407.504	1312.185	1145.723	1097.571	1098.756	1087.716
15	1381.406	1391.308	1392.125	1369.910	1396.664	1294.677	1141.143	1080.472	1078.102	1076.910
16	1381.446	1397.481	1384.024	1369.663	1381.895	1292.628	1131.817	1069.056	1056.664	1065.823
17	1389.018	1401.331	1377.436	1370.607	1367.908	1296.679	1105.512	1059.810	1033.753	1052.901
18	1401.083	1404.149	1371.631	1372.695	1355.348	1298.239	1083.866	1049.667	1011.947	1038.908
19	1410.001	1407.463	1367.333	1378.909	1347.615	1295.005	1072.411	1038.908	988.219	1020.664
20	1414.868	1407.303	1367.085	1384.680	1347.615	1284.902	1064.845	1023.442	961.834	997.345
21	1421.905	1403.580	1366.844	1386.400	1347.448	1271.686	1059.938	998.690	926.490	970.015
22	1424.851	1400.755	1357.270	1385.784	1351.338	1267.106	1053.678	968.991	881.773	938.267
23	1425.547	1399.737	1346.799	1385.985	1373.264	1270.172	1046.434	935.408	832.717	904.275
24	1416.837	1396.503	1340.411	1390.404	1391.060	1278.562	1039.685	898.343	776.431	865.202
25	1394.127	1394.086	1331.252	1393.477	1389.139	1285.310	1031.544	859.846	712.526	824.583
26	1372.649	1389.259	1327.731	1402.395	1388.971	1285.839	1021.929	814.721	644.001	784.244
27	1348.800	1378.828	1326.506	1400.427	1390.324	1281.461	1011.130	768.899	580.263	748.981
28	1326.465	1365.123	1324.865	1381.654	1389.587	1272.871	999.882	727.911	523.033	718.418
29	1303.474	1346.919	1321.839	1368.558	1384.231	1266.122	987.114	689.782	473.160	683.891
30	1285.103	1325.073	1318.813	1362.626	1370.566	1264.241	977.989	653.615	427.546	646.746
31	1267.796	1301.921	1313.658	1355.268	1366.884	1263.384	972.184	621.257	388.313	609.722
32	1250.455	1275.897	1307.973	1348.064	1368.230	1265.794	972.184	587.507	363.072	577.484
33	1231.836	1250.415	1299.993	1348.553	1376.498	1279.867	972.633	555.471	342.210	547.698
34	1217.482	1228.321	1291.483	1362.057	1376.907	1295.333	972.425	527.451	324.742	520.743
35	1202.056	1209.749	1278.843	1378.011	1370.807	1301.345	972.184	499.593	310.997	494.558
36	1182.131	1190.440	1273.728	1387.378	1360.463	1301.138	971.896	475.370	298.189	470.134
37	1158.490	1169.531	1269.108	1385.537	1352.362	1302.657	969.486	452.091	288.535	444.036
38	1129.480	1146.667	1262.808	1372.160	1345.527	1307.766	961.385	430.124	279.329	416.379
39	1086.979	1115.943	1252.129	1357.022	1340.411	1313.169	950.706	408.813	269.433	393.468
40	1041.606	1081.617	1239.328	1350.153	1336.200	1314.354	935.528	387.576	261.372	370.765
41	1003.149	1045.001	1227.464	1352.322	1330.757	1311.488	920.270	368.107	252.414	351.945
42	964.204	1001.188	1214.127	1361.240	1324.048	1303.802	905.132	351.416	243.778	335.950
43	929.844	961.666	1197.188	1362.298	1317.420	1296.638	892.900	337.751	236.460	325.766
44	901.162	920.431	1174.813	1359.232	1312.720	1288.089	885.006	325.766	230.568	317.297
45	879.604	883.447	1145.843	1354.652	1308.342	1280.483	875.841	316.761	225.573	309.156
46	863.810	854.282	1116.431	1353.340	1301.961	1268.251	867.452	310.381	221.195	301.791
47	862.665	831.452	1087.549	1356.821	1296.598	1255.363	858.373	303.793	216.943	295.652
48	879.396	822.126	1053.678	1360.336	1289.234	1244.972	849.248	298.109	211.949	292.953
49	942.237	820.572	1007.936	1361.809	1279.378	1233.436	840.169	293.282	208.514	289.311
50	1034.121	833.541	956.350	1361.608	1273.935	1221.365	828.754	290.664	206.345	286.446
51	1017.758	909.143	921.087	1359.111	1269.556	1206.682	810.791	288.983	203.359	284.364
52	884.183	982.455	897.888	1356.694	1266.570	1182.298	787.230	287.390	202.910	280.681
53	756.546	937.001	889.874	1354.980	1268.211	1154.601	756.259	285.261	202.662	275.446

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CANDELA TABULATION - (Cont.)

54	607.880	805.026	888.562	1349.985	1274.096	1121.339	718.498	283.051	202.910	269.226
55	493.206	693.585	887.865	1344.917	1277.410	1087.060	678.695	278.592	203.158	263.006
56	425.009	583.209	895.270	1349.657	1268.987	1051.180	639.133	269.842	204.135	256.666
57	379.522	513.338	932.335	1336.776	1241.290	1010.882	601.132	260.308	206.472	245.498
58	350.920	463.138	913.802	1319.630	1203.937	964.451	564.268	246.723	209.090	234.371
59	326.911	436.384	851.825	1291.610	1157.299	920.799	532.479	234.331	215.102	226.350
60	308.868	411.920	781.868	1248.447	1108.002	880.132	509.120	225.901	220.746	221.971
61	294.754	392.651	709.948	1195.388	1049.259	841.963	484.783	221.195	227.086	221.282
62	281.619	373.670	661.596	1110.660	990.429	807.236	451.481	219.072	226.805	218.416
63	271.475	353.705	632.505	1036.210	930.822	772.293	405.004	215.390	224.676	209.090
64	257.570	336.358	611.603	982.327	892.940	730.529	355.058	207.209	218.336	194.936
65	244.514	321.140	595.769	900.017	884.799	677.590	308.011	195.258	207.985	181.352
66	228.600	305.514	586.730	824.663	902.066	624.163	267.673	182.905	205.528	172.635
67	225.781	296.964	580.551	760.637	887.256	574.331	246.154	174.068	209.251	173.699
68	217.840	289.070	568.808	726.438	817.914	526.179	236.741	172.186	212.277	179.022
69	214.205	279.577	557.720	740.424	734.211	469.398	217.760	171.938	206.593	177.870
70	206.104	267.137	529.621	707.618	641.959	420.918	191.703	165.685	191.334	166.703
71	198.204	259.243	485.680	641.550	559.890	378.739	167.895	147.762	173.211	148.706
72	193.376	246.851	435.239	575.844	509.488	341.226	149.275	130.870	156.399	140.116
73	183.849	238.542	389.257	488.994	520.616	309.069	138.724	128.822	134.921	144.408
74	177.629	231.385	347.934	403.859	538.251	270.250	129.598	137.619	107.511	155.087
75	173.331	219.072	316.681	338.608	497.752	227.903	123.794	147.273	83.984	147.642
76	173.539	205.608	292.425	324.166	427.955	192.359	118.391	138.804	81.654	119.656
77	171.249	186.300	276.878	335.582	365.609	171.657	108.408	109.593	87.747	83.087
78	131.848	174.396	259.404	314.719	331.370	155.703	97.401	75.602	86.234	56.246
79	93.230	164.580	241.120	272.004	284.564	132.176	84.192	54.405	75.923	50.522
80	68.646	148.499	216.863	221.771	216.776	109.473	74.249	53.709	63.731	54.077
81	65.532	114.829	187.940	192.272	220.826	94.007	74.410	59.520	55.021	54.164
82	69.255	87.258	162.652	190.638	227.495	83.736	71.384	56.534	47.208	49.745
83	40.050	61.569	145.432	163.436	180.247	74.537	65.532	46.551	22.375	41.845
84	20.367	58.375	135.657	132.832	131.319	62.466	52.892	34.895	5.932	35.136
85	16.276	45.936	117.366	127.429	94.087	45.694	34.567	30.717	0.000	31.045
86	11.328	23.888	94.134	112.171	71.384	31.374	21.967	30.148	0.000	22.904
87	7.157	16.236	74.370	77.891	53.956	21.927	15.339	23.888	0.000	14.154
88	4.292	12.761	60.256	57.679	43.237	18.164	13.986	14.602	0.000	9.119
89	1.674	8.751	50.562	53.300	37.513	17.669	12.962	8.871	0.000	6.213
90	0.000	5.195	34.487	44.054	31.949	14.482	8.590	4.131	0.000	0.449
91	0.000	1.634	22.415	29.084	24.096	9.159	3.722	0.000	0.000	0.000
92	0.000	0.040	9.367	17.381	17.140	4.660	0.000	0.000	0.000	0.000
93	0.000	0.000	2.779	8.871	9.815	0.449	0.000	0.000	0.000	0.000
94	0.000	0.000	0.000	1.881	3.635	0.000	0.000	0.000	0.000	0.000
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97	0.000	0.000	0.000	0.000	0.201	0.000	0.000	0.000	0.000	0.000
98	0.000	0.000	0.000	0.000	0.000	0.201	0.000	0.000	0.000	0.000
99	0.000	0.000	0.000	0.000	0.649	0.449	0.201	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.449	0.201	0.000	0.000	0.000	0.000
101	0.000	0.000	0.000	0.000	0.449	0.690	0.000	0.000	0.000	0.000
102	0.000	0.000	0.000	0.000	0.449	0.449	0.449	0.000	0.000	0.000
103	0.000	0.000	0.000	0.000	0.449	0.449	0.449	0.000	0.000	0.000
104	0.000	0.000	0.000	0.000	0.449	0.449	0.690	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.201
106	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
107	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
109	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

110	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
112	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
113	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
116	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
118	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
119	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
121	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
122	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.201
124	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.000	0.000	0.449
125	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.201	0.000	0.449
126	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.649	0.000	0.449
127	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.449
128	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.449
129	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.449
130	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
131	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
132	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
133	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
134	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
135	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
136	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
137	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
138	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
139	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
140	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
141	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
142	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
143	0.000	0.000	0.000	0.000	0.649	0.449	0.690	0.449	0.000	0.201
144	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.000	0.449
145	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
146	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
147	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
148	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
149	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
150	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
151	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
152	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.201
153	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
154	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
155	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
156	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
157	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
158	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
159	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
160	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
161	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
162	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
163	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
164	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
165	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

166	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
167	0.000	0.000	0.000	0.000	0.649	0.449	0.449	0.449	0.201	0.000
168	0.000	0.000	0.000	0.000	0.449	0.449	0.449	0.449	0.201	0.000
169	0.000	0.000	0.000	0.000	0.449	0.449	0.449	0.449	0.201	0.000
170	0.000	0.000	0.000	0.000	0.449	0.449	0.449	0.449	0.201	0.000
171	0.000	0.000	0.000	0.000	0.449	0.449	0.201	0.449	0.201	0.000
172	0.000	0.000	0.201	0.000	0.449	0.449	0.201	0.449	0.201	0.000
173	0.000	0.000	0.201	0.000	0.449	0.449	0.201	0.449	0.201	0.000
174	0.000	0.000	0.201	0.000	0.649	0.449	0.201	0.449	0.201	0.000
175	0.000	0.000	0.201	0.000	0.201	0.449	0.201	0.449	0.000	0.000
176	0.000	0.000	0.201	0.000	0.201	0.449	0.201	0.449	0.000	0.000
177	0.000	0.000	0.201	0.000	0.201	0.449	0.201	0.449	0.000	0.000
178	0.000	0.000	0.201	0.449	0.201	0.449	0.201	0.449	0.000	0.000
179	0.000	0.201	0.201	0.449	0.201	0.449	0.201	0.449	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Angles **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	1394.940	1394.940	1394.940	1394.940	1394.940	1394.940	1394.940
1	1383.863	1378.092	1371.504	1375.434	1381.854	1388.971	1393.926
2	1377.891	1371.095	1365.003	1365.204	1374.001	1384.840	1390.404
3	1368.966	1372.200	1364.507	1364.226	1370.238	1381.406	1386.072
4	1368.966	1384.559	1370.486	1360.584	1365.699	1375.922	1382.430
5	1368.645	1398.505	1382.999	1357.839	1364.675	1374.289	1380.301
6	1363.403	1412.337	1392.573	1364.715	1372.200	1380.140	1374.818
7	1344.670	1419.535	1403.252	1373.432	1382.631	1389.956	1367.500
8	1304.251	1414.460	1411.313	1377.395	1392.453	1397.401	1363.858
9	1258.349	1399.858	1418.062	1383.368	1400.146	1404.564	1362.465
10	1215.968	1376.003	1420.151	1390.364	1403.948	1406.399	1363.818
11	1180.698	1344.629	1419.495	1393.477	1404.518	1406.198	1366.844
12	1156.281	1313.088	1413.275	1394.455	1400.346	1406.399	1373.753
13	1144.866	1300.080	1401.451	1391.636	1397.240	1408.488	1377.643
14	1145.154	1302.162	1393.109	1389.259	1391.308	1410.168	1380.710
15	1135.988	1310.919	1381.854	1389.467	1387.746	1411.353	1381.406
16	1108.089	1312.593	1367.821	1395.031	1385.088	1411.106	1381.446
17	1084.603	1304.211	1358.743	1401.940	1379.772	1407.383	1389.018
18	1071.306	1288.497	1362.793	1405.254	1377.523	1403.004	1401.083
19	1068.320	1266.162	1371.912	1404.149	1384.191	1400.306	1410.001
20	1067.343	1250.616	1383.086	1400.186	1391.509	1400.306	1414.868
21	1064.517	1246.277	1401.371	1403.373	1397.729	1406.399	1421.905
22	1060.346	1246.364	1412.786	1409.305	1404.645	1413.235	1424.851
23	1052.653	1251.473	1417.694	1416.957	1406.198	1415.732	1425.547
24	1044.144	1252.906	1410.208	1425.259	1402.435	1413.971	1416.837
25	1033.545	1252.537	1404.397	1427.756	1388.483	1405.093	1394.127
26	1020.945	1249.350	1400.018	1438.803	1379.524	1389.795	1372.649
27	1006.792	1248.165	1400.186	1445.224	1372.079	1367.333	1348.800
28	995.055	1249.799	1400.882	1446.168	1371.792	1344.054	1326.465
29	984.416	1249.592	1402.964	1439.419	1377.931	1320.286	1303.474
30	979.341	1251.520	1402.355	1433.360	1381.245	1289.321	1285.103
31	976.563	1263.625	1402.107	1434.592	1375.146	1261.864	1267.796
32	977.299	1276.473	1401.860	1456.639	1364.186	1233.436	1250.455
33	979.589	1288.169	1396.952	1481.552	1352.275	1209.173	1231.836
34	979.589	1300.937	1390.491	1490.637	1341.764	1185.773	1217.482
35	978.565	1309.038	1382.511	1488.100	1331.701	1167.569	1202.056
36	974.186	1311.247	1373.713	1462.411	1326.385	1155.089	1182.131

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CANDELA TABULATION - (Cont.)

37	969.399	1314.233	1368.846	1437.739	1321.558	1139.423	1158.490
38	958.640	1313.698	1365.940	1420.720	1313.785	1125.269	1129.480
39	940.315	1308.998	1363.162	1411.802	1304.499	1103.831	1086.979
40	921.207	1299.216	1360.584	1407.222	1291.483	1074.988	1041.606
41	908.486	1289.769	1360.504	1399.610	1276.673	1041.647	1003.149
42	896.174	1282.324	1360.745	1394.495	1262.232	1002.908	964.204
43	885.455	1274.143	1355.877	1392.573	1250.167	966.821	929.844
44	878.867	1263.912	1348.512	1392.781	1238.136	929.061	901.162
45	873.223	1254.707	1341.195	1392.573	1219.731	898.752	879.604
46	865.530	1244.563	1333.094	1400.594	1181.482	873.591	863.810
47	852.153	1234.541	1325.521	1408.200	1145.274	850.393	862.665
48	833.253	1226.152	1318.692	1417.245	1109.027	837.096	879.396
49	809.773	1216.785	1316.603	1427.636	1074.580	829.450	942.237
50	785.630	1200.175	1316.563	1437.170	1044.633	839.433	1034.121
51	757.484	1176.367	1317.507	1448.826	1022.090	925.954	1017.758
52	724.925	1152.023	1318.893	1457.496	1019.720	997.217	884.183
53	687.124	1123.508	1311.575	1465.189	1020.577	938.186	756.546
54	646.090	1088.861	1290.218	1465.805	1006.551	812.960	607.880
55	606.528	1049.299	1262.319	1451.651	983.559	713.102	493.206
56	570.896	1004.502	1224.478	1420.887	988.956	611.683	425.009
57	541.357	958.968	1179.225	1377.563	1019.311	543.734	379.522
58	516.652	918.958	1113.854	1330.636	998.858	494.638	350.920
59	493.453	878.947	1042.591	1274.183	930.293	460.600	326.911
60	465.106	837.424	985.722	1196.452	865.202	435.855	308.868
61	427.098	786.494	965.107	1091.807	803.105	415.850	294.754
62	378.457	726.479	977.828	1019.640	769.187	396.621	281.619
63	325.967	669.570	1007.407	994.847	753.520	380.995	271.475
64	281.706	621.217	1014.732	982.535	738.463	367.779	257.570
65	253.472	574.291	979.013	989.980	715.351	355.587	244.514
66	239.238	525.242	911.392	993.374	690.720	343.274	228.600
67	226.022	476.066	807.805	954.877	658.201	331.370	225.781
68	207.657	425.136	684.995	880.179	613.524	316.520	217.840
69	185.115	375.384	640.774	793.035	563.083	304.242	214.205
70	164.902	333.292	655.664	664.046	501.514	292.833	206.104
71	149.563	305.025	670.802	515.996	440.394	282.723	198.204
72	138.844	269.922	627.926	450.296	388.440	273.845	193.376
73	133.769	226.310	551.835	432.293	349.983	265.664	183.849
74	126.652	192.727	485.560	436.344	338.775	249.509	177.629
75	117.446	174.603	448.208	421.983	328.177	233.795	173.331
76	105.382	159.097	435.855	371.662	311.774	211.380	173.539
77	92.333	135.898	323.718	295.652	286.205	195.914	171.249
78	82.719	114.260	243.329	249.100	248.692	184.258	131.848
79	78.789	99.698	221.195	247.627	211.420	167.198	93.230
80	76.948	91.389	182.657	219.193	179.022	148.579	68.646
81	74.738	81.614	157.417	167.935	162.820	113.932	65.532
82	66.396	67.005	133.281	158.153	157.176	84.680	69.255
83	47.127	49.705	104.110	141.790	146.537	69.302	40.050
84	30.845	33.134	78.461	89.099	124.282	60.993	20.367
85	18.037	23.888	55.878	65.780	100.675	44.958	16.276
86	14.763	20.085	45.159	60.745	86.033	24.337	11.328
87	14.026	18.854	37.064	51.091	70.895	16.363	7.157
88	12.145	17.180	28.100	36.609	55.510	13.169	4.292
89	7.398	11.496	18.653	26.995	39.066	7.606	1.674
90	3.515	7.358	13.866	20.045	22.576	3.555	0.000
91	0.000	2.290	7.934	12.105	10.183	0.201	0.000
92	0.000	0.449	3.843	4.412	3.435	0.000	0.000

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CANDELA TABULATION - (Cont.)

93	0.000	0.201	0.690	0.730	0.080	0.000	0.000
94	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95	0.000	0.201	0.000	0.000	0.000	0.000	0.000
96	0.000	0.449	0.000	0.000	0.000	0.000	0.000
97	0.000	0.449	0.000	0.000	0.000	0.000	0.000
98	0.201	0.449	0.000	0.000	0.000	0.000	0.000
99	0.000	0.649	0.000	0.000	0.000	0.000	0.000
100	0.000	0.449	0.000	0.000	0.000	0.000	0.000
101	0.000	0.449	0.000	0.000	0.000	0.000	0.000
102	0.201	0.449	0.000	0.000	0.000	0.000	0.000
103	0.649	0.449	0.000	0.000	0.000	0.000	0.000
104	0.449	0.449	0.000	0.000	0.000	0.000	0.000
105	0.649	0.449	0.000	0.000	0.000	0.000	0.000
106	0.649	0.449	0.000	0.000	0.000	0.000	0.000
107	0.649	0.449	0.000	0.000	0.000	0.000	0.000
108	0.649	0.449	0.000	0.000	0.000	0.000	0.000
109	0.649	0.449	0.000	0.000	0.000	0.000	0.000
110	0.649	0.449	0.000	0.000	0.000	0.000	0.000
111	0.649	0.449	0.000	0.000	0.000	0.000	0.000
112	0.649	0.449	0.000	0.000	0.000	0.000	0.000
113	0.649	0.449	0.000	0.000	0.000	0.000	0.000
114	0.649	0.449	0.000	0.000	0.000	0.000	0.000
115	0.649	0.449	0.000	0.000	0.000	0.000	0.000
116	0.649	0.449	0.000	0.000	0.000	0.000	0.000
117	0.649	0.449	0.000	0.000	0.000	0.000	0.000
118	0.649	0.449	0.000	0.000	0.000	0.000	0.000
119	0.649	0.449	0.000	0.000	0.000	0.000	0.000
120	0.649	0.449	0.000	0.000	0.000	0.000	0.000
121	0.649	0.449	0.000	0.000	0.000	0.000	0.000
122	0.649	0.449	0.000	0.000	0.000	0.000	0.000
123	0.649	0.449	0.000	0.000	0.000	0.000	0.000
124	0.649	0.449	0.000	0.000	0.000	0.000	0.000
125	0.649	0.449	0.000	0.000	0.000	0.000	0.000
126	0.649	0.449	0.000	0.000	0.000	0.000	0.000
127	0.649	0.449	0.000	0.000	0.000	0.000	0.000
128	0.649	0.449	0.000	0.000	0.000	0.000	0.000
129	0.649	0.449	0.000	0.000	0.000	0.000	0.000
130	0.649	0.449	0.000	0.000	0.000	0.000	0.000
131	0.649	0.449	0.000	0.000	0.000	0.000	0.000
132	0.649	0.449	0.000	0.000	0.000	0.000	0.000
133	0.649	0.449	0.000	0.000	0.000	0.000	0.000
134	0.649	0.449	0.000	0.000	0.000	0.000	0.000
135	0.649	0.449	0.000	0.000	0.000	0.000	0.000
136	0.649	0.449	0.000	0.000	0.000	0.000	0.000
137	0.649	0.449	0.000	0.000	0.000	0.000	0.000
138	0.649	0.449	0.000	0.000	0.000	0.000	0.000
139	0.649	0.449	0.000	0.000	0.000	0.000	0.000
140	0.649	0.449	0.000	0.000	0.000	0.000	0.000
141	0.649	0.449	0.000	0.000	0.000	0.000	0.000
142	0.649	0.449	0.000	0.000	0.000	0.000	0.000
143	0.649	0.449	0.000	0.000	0.000	0.000	0.000
144	0.649	0.449	0.000	0.000	0.000	0.000	0.000
145	0.449	0.449	0.000	0.000	0.000	0.000	0.000
146	0.449	0.449	0.000	0.000	0.000	0.000	0.000
147	0.449	0.649	0.000	0.000	0.000	0.000	0.000
148	0.449	0.201	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

149	0.449	0.449	0.000	0.000	0.000	0.000	0.000
150	0.449	0.201	0.000	0.000	0.000	0.000	0.000
151	0.449	0.201	0.000	0.000	0.000	0.000	0.000
152	0.449	0.201	0.000	0.000	0.000	0.000	0.000
153	0.449	0.201	0.449	0.000	0.000	0.000	0.000
154	0.449	0.201	0.201	0.000	0.000	0.000	0.000
155	0.449	0.201	0.201	0.201	0.000	0.000	0.000
156	0.449	0.201	0.649	0.449	0.000	0.000	0.000
157	0.449	0.201	0.449	0.201	0.000	0.000	0.000
158	0.449	0.201	0.449	0.201	0.000	0.000	0.000
159	0.449	0.201	0.449	0.201	0.000	0.000	0.000
160	0.449	0.201	0.449	0.201	0.000	0.000	0.000
161	0.449	0.201	0.449	0.201	0.000	0.000	0.000
162	0.449	0.201	0.449	0.201	0.000	0.000	0.000
163	0.449	0.201	0.449	0.201	0.000	0.000	0.000
164	0.449	0.201	0.449	0.201	0.000	0.000	0.000
165	0.449	0.201	0.449	0.201	0.000	0.000	0.000
166	0.449	0.201	0.449	0.201	0.000	0.000	0.000
167	0.449	0.201	0.449	0.201	0.000	0.000	0.000
168	0.449	0.201	0.449	0.201	0.000	0.000	0.000
169	0.449	0.201	0.449	0.201	0.000	0.000	0.000
170	0.449	0.201	0.449	0.201	0.000	0.000	0.000
171	0.449	0.201	0.449	0.201	0.201	0.000	0.000
172	0.449	0.201	0.449	0.201	0.201	0.000	0.000
173	0.449	0.201	0.449	0.201	0.201	0.000	0.000
174	0.449	0.201	0.449	0.201	0.201	0.000	0.000
175	0.449	0.201	0.449	0.201	0.449	0.000	0.000
176	0.449	0.201	0.449	0.201	0.649	0.000	0.000
177	0.649	0.201	0.449	0.201	0.449	0.000	0.000
178	0.201	0.201	0.449	0.201	0.449	0.000	0.000
179	0.201	0.201	0.449	0.201	0.449	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	494.68	12.10	12.10
0-30	1055.05	25.80	25.80
0-40	1744.98	42.70	42.70
0-60	3239.29	79.20	79.20
0-80	4019.58	98.30	98.30
0-90	4087.51	99.90	99.90
10-90	3957.71	96.70	96.70
20-40	1250.31	30.60	30.60
20-50	2005.45	49.00	49.00
40-70	2012.33	49.20	49.20
60-80	780.29	19.10	19.10
70-80	262.27	6.40	6.40
80-90	67.93	1.70	1.70
90-110	2.39	0.10	0.10
90-120	2.57	0.10	0.10
90-130	2.76	0.10	0.10
90-150	3.06	0.10	0.10
90-180	3.24	0.10	0.10
110-180	0.85	0.00	0.00
0-180	4090.74	100.00	100.00

Total Luminaire Efficiency = 100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	129.80
10-20	364.88
20-30	560.38
30-40	689.93
40-50	755.14
50-60	739.17
60-70	518.02
70-80	262.27
80-90	67.93
90-100	2.22
100-110	0.17
110-120	0.18
120-130	0.19
130-140	0.17
140-150	0.13
150-160	0.10
160-170	0.06
170-180	0.02

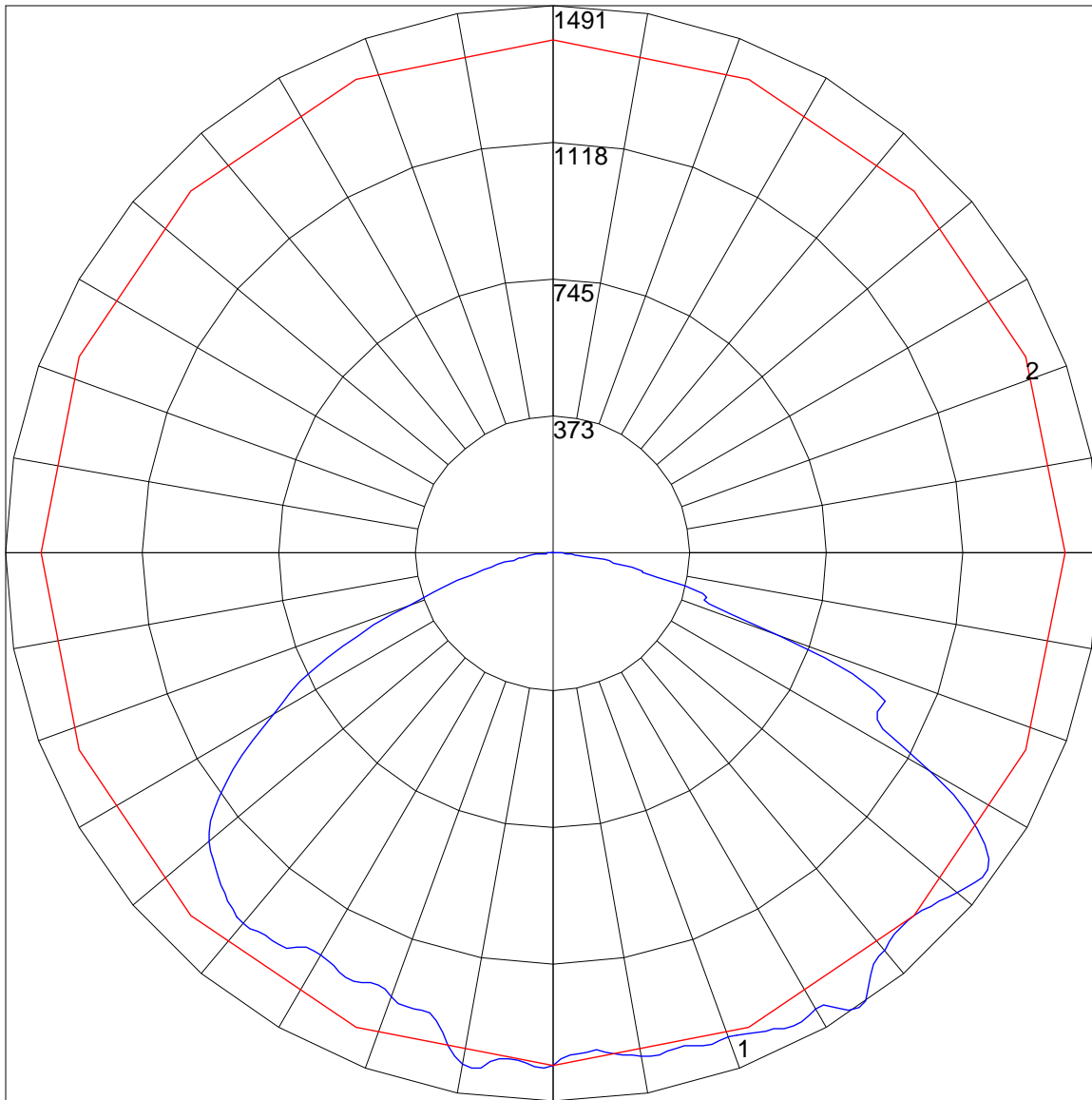
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

POLAR GRAPH



Maximum Candela = 1490.637 Located At Horizontal Angle = 292.5, Vertical Angle = 34
1 - Vertical Plane Through Horizontal Angles (292.5 - 112.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0)