

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 1220094.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TESTDATE] 29-feb-12
 [TEST] 1220094
 [ISSUE DATE] 29-feb-12
 [MANUFAC] ELECTROCONTROL
 [LUMCAT] HERMETICA 2X54W T5
 [LUMINAIRE] 1220094 FLUORESCENTE LINEAL T5
 [LAMPCAT] CONSECUTIVO 0108
 [LAMP] 1220094 19
 [BALLAST] BALASTO ELECTRONICO MV
 [TESTLAB] LAPEC LABORATORIO DE PRUEBAS Y ENSAYOS ELECTROCONTROL S.A.
 [MORE] web: www.electrocontrol.com.co
 [MORE] 400 55 00 Ext. 1501 y 1403 Servicio al cliente 01-8000-52-7878
 [MORE] El laboratorio NO cuenta con resolución de acreditación del ensayo
 [MORE] los ensayos se realizan cumpliendo las normas establecidas
 [MORE] en el sistema de calidad de Electrocontrol.
 [MORE] Los resultados entregados son de carácter informativo.
 [_ CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	7828 (1 lamp)
Total Lamp Lumens	7828
Luminaire Lumens	5360
Total Luminaire Efficiency	68 %
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	106.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.24
Spacing Criterion (90-270)	1.36
Spacing Criterion (Diagonal)	1.42
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.22 m
Luminous Width (90-270)	0.20 m
Luminous Height	0.10 m



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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4554	3689	3926
55	4108	3366	3974
65	3339	3330	4260
75	2022	3419	4735
85	751	3891	5327

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388
5	1283.214	1283.214	1283.214	1284.072	1284.072	1284.934	1286.653	1287.514	1290.093	1292.673
10	1259.039	1259.039	1259.039	1260.756	1260.756	1262.479	1265.918	1267.640	1272.797	1277.958
15	1228.080	1226.361	1227.219	1229.797	1234.098	1240.979	1244.418	1248.719	1252.158	1255.597
20	1197.121	1193.682	1195.398	1198.838	1207.439	1219.479	1222.918	1229.797	1231.519	1233.236
25	1143.801	1140.362	1142.939	1148.960	1158.419	1168.740	1174.760	1181.639	1187.659	1192.818
30	1090.480	1087.041	1090.480	1099.081	1109.399	1118.000	1126.601	1133.480	1143.798	1152.399
35	1017.380	1012.221	1016.519	1025.120	1037.160	1045.761	1054.359	1061.241	1067.258	1074.998
40	944.280	937.401	942.557	951.158	964.921	973.522	982.117	989.001	990.718	997.597
45	850.541	843.660	848.818	860.000	866.020	864.301	869.460	879.780	889.240	898.699
50	756.802	749.918	755.079	768.842	767.119	755.079	756.802	770.559	787.761	799.801
55	642.422	635.540	639.841	626.942	620.919	615.760	637.260	674.239	713.800	748.201
60	528.041	521.162	524.602	485.041	474.718	476.440	517.718	577.919	639.838	696.600
65	405.060	381.840	374.962	366.361	384.419	416.239	466.979	526.319	589.099	646.719
70	282.078	242.518	225.321	247.680	294.119	356.037	416.239	474.718	538.359	596.838
75	166.840	148.779	147.921	189.201	244.241	303.578	360.341	420.539	485.900	547.819
80	51.601	55.040	70.520	130.721	194.362	251.119	304.442	366.360	433.441	498.799
85	30.960	34.402	45.581	95.462	156.522	213.279	270.041	331.959	405.921	472.140
90	10.318	13.763	20.641	60.202	118.681	175.438	235.639	297.558	378.401	445.481
95	8.599	10.321	15.480	40.422	79.982	125.560	175.440	226.180	279.500	329.381
100	6.879	6.879	10.318	20.641	41.283	75.681	115.241	154.802	180.599	213.281
105	4.301	4.301	6.879	12.902	24.942	45.581	72.242	98.043	117.820	141.901
110	1.722	1.722	3.439	5.162	8.601	15.480	29.242	41.283	55.040	70.520
115	0.861	0.861	1.720	2.581	5.162	9.460	20.641	29.242	40.419	50.739
120	0.000	0.000	0.000	0.000	1.722	3.439	12.040	17.202	25.798	30.959
125	0.000	0.000	0.000	0.000	0.861	1.720	7.740	12.041	18.919	24.081
130	0.000	0.000	0.000	0.000	0.000	0.000	3.439	6.879	12.040	17.202
135	0.000	0.000	0.000	0.000	0.000	0.000	1.720	3.440	6.881	9.462
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.722	1.722
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.861	0.861	0.861
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.722	0.000	0.000
155	0.861	0.000	0.000	0.000	0.000	0.000	0.000	0.861	0.861	0.861
160	1.722	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.722	1.722
165	0.861	0.861	0.000	0.000	0.000	0.000	0.000	0.000	0.861	0.861
170	0.000	1.722	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.861	0.000	0.000	0.000	0.000	0.000	0.000	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>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388
5	1294.393	1296.974	1297.832	1298.694	1298.694	1299.555	1301.274	1301.274	1301.274	1301.274
10	1281.398	1286.559	1288.276	1289.999	1289.999	1291.721	1295.160	1295.160	1295.160	1295.160
15	1259.898	1265.060	1268.499	1271.939	1271.939	1274.519	1277.100	1277.958	1277.958	1277.958
20	1238.398	1243.560	1248.721	1253.878	1253.878	1257.317	1259.039	1260.756	1260.756	1260.756
25	1199.699	1205.720	1210.881	1215.179	1215.179	1219.479	1221.199	1224.638	1224.638	1223.777
30	1161.000	1167.879	1173.040	1176.480	1176.480	1181.641	1183.358	1188.520	1188.520	1186.797
35	1086.180	1097.359	1105.099	1113.700	1118.859	1128.321	1131.758	1137.781	1139.500	1137.778
40	1011.360	1026.839	1037.157	1050.920	1061.238	1075.001	1080.157	1087.041	1090.480	1088.758
45	913.321	930.520	948.577	966.641	981.259	995.019	1002.759	1011.360	1016.519	1015.658
50	815.281	834.200	859.997	882.361	901.280	915.037	925.361	935.679	942.557	942.557
55	786.900	816.140	847.099	878.061	906.439	922.777	937.401	946.858	953.739	953.739
60	758.518	798.079	834.200	873.760	911.598	930.517	949.441	958.037	964.921	964.921

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CANDELA TABULATION - (Cont.)

65	697.458	747.340	783.461	825.599	853.119	872.899	891.821	903.858	910.740	911.601
70	636.398	696.600	732.721	777.437	794.639	815.281	834.200	849.679	856.558	858.280
75	605.439	669.080	705.201	756.799	783.460	814.420	833.339	848.818	857.419	858.280
80	574.480	641.560	677.681	736.160	772.281	813.558	832.477	847.957	858.280	858.280
85	539.220	591.679	628.661	669.080	698.320	727.559	743.039	754.218	761.099	761.961
90	503.960	541.798	579.641	602.000	624.358	641.560	653.600	660.479	663.918	665.641
95	379.259	406.779	437.741	462.681	485.039	501.380	513.420	521.160	525.460	525.460
100	254.558	271.760	295.841	323.361	345.719	361.199	373.239	381.840	387.002	385.279
105	169.420	190.059	214.140	240.801	262.301	279.500	291.541	300.139	304.442	303.581
110	84.282	108.357	132.438	158.241	178.882	197.801	209.842	218.437	221.882	221.882
115	61.921	78.259	93.739	109.221	122.981	134.160	141.042	147.059	148.781	147.920
120	39.560	48.161	55.040	60.202	67.080	70.520	72.242	75.681	75.681	73.959
125	32.679	40.422	45.581	48.162	54.182	56.760	59.341	61.060	61.921	61.060
130	25.798	32.682	36.121	36.121	41.283	43.000	46.439	46.439	48.161	48.161
135	15.480	20.642	22.361	24.081	27.523	28.382	30.960	30.960	31.821	31.821
140	5.162	8.601	8.601	12.040	13.763	13.763	15.480	15.480	15.480	15.480
145	2.581	4.301	4.301	6.881	7.743	6.882	7.740	8.601	8.601	8.601
150	0.000	0.000	0.000	1.722	1.722	0.000	0.000	1.722	1.722	1.722
155	1.720	0.861	0.000	0.861	0.861	0.000	0.861	0.861	1.722	1.722
160	3.439	1.722	0.000	0.000	0.000	0.000	1.722	0.000	1.722	1.722
165	1.720	1.722	0.861	0.861	0.000	0.000	0.861	0.861	0.861	0.861
170	0.000	1.722	1.722	1.722	0.000	0.000	0.000	1.722	0.000	0.000
175	0.000	0.861	0.861	0.861	0.000	0.000	0.000	0.861	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. Horizontal Angles

	<u>100</u>	<u>105</u>	<u>110</u>	<u>115</u>	<u>120</u>	<u>125</u>	<u>130</u>	<u>135</u>	<u>140</u>	<u>145</u>
0	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388
5	1302.133	1300.413	1299.555	1298.694	1298.694	1297.832	1297.832	1297.832	1295.254	1291.815
10	1296.877	1293.438	1291.721	1289.999	1289.999	1288.276	1288.276	1288.276	1283.120	1276.241
15	1278.817	1276.239	1275.380	1273.658	1271.939	1270.219	1267.638	1265.057	1261.620	1257.320
20	1260.756	1259.039	1259.039	1257.317	1253.878	1252.161	1246.999	1241.837	1240.120	1238.398
25	1222.919	1221.199	1219.479	1220.338	1216.899	1214.321	1210.020	1205.719	1200.560	1194.538
30	1185.081	1183.358	1179.919	1183.358	1179.919	1176.480	1173.040	1169.601	1161.000	1150.677
35	1136.920	1132.619	1127.460	1124.879	1118.859	1111.119	1103.379	1095.640	1084.460	1074.998
40	1088.758	1081.879	1075.001	1066.400	1057.799	1045.758	1033.718	1021.678	1007.920	999.319
45	1013.080	1006.198	996.742	984.699	973.520	956.320	939.118	926.219	909.020	896.979
50	937.401	930.517	918.482	902.997	889.240	866.881	844.518	830.760	810.119	794.639
55	948.580	939.979	926.222	896.977	872.041	841.940	801.518	764.539	731.860	694.019
60	959.759	949.441	933.962	890.957	854.841	816.998	758.518	698.317	653.600	593.399
65	905.581	892.679	876.341	836.778	805.822	760.239	704.340	655.318	598.561	541.799
70	851.402	835.917	818.720	782.599	756.802	703.479	650.161	612.318	543.521	490.198
75	849.680	823.018	796.359	757.660	724.982	667.361	607.162	556.420	483.319	428.279
80	847.957	810.119	773.998	732.721	693.161	631.242	564.162	500.521	423.117	366.360
85	754.218	730.140	706.060	675.962	636.401	586.520	532.342	469.559	389.577	322.500
90	660.479	650.161	638.121	619.202	579.641	541.798	500.521	438.597	356.037	278.639
95	520.299	509.119	496.221	478.160	446.340	414.519	377.540	325.939	275.200	216.721
100	380.118	368.077	354.320	337.118	313.038	287.240	254.558	213.281	194.362	154.802
105	299.278	287.240	272.619	254.558	229.620	203.819	176.299	146.201	129.002	102.340
110	218.437	206.402	190.917	171.998	146.201	120.398	98.040	79.121	63.641	49.878
115	146.198	137.602	129.860	116.958	100.620	85.138	71.381	58.479	47.300	36.118
120	73.959	68.803	68.803	61.919	55.040	49.878	44.722	37.838	30.959	22.358
125	61.060	56.763	55.902	50.740	46.439	42.139	36.121	28.379	23.220	14.619
130	48.161	44.722	43.000	39.560	37.838	34.399	27.520	18.919	15.480	6.879
135	31.821	29.243	28.382	24.081	23.220	20.639	16.341	10.321	8.601	4.301

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CANDELA TABULATION - (Cont.)

140	15.480	13.763	13.763	8.601	8.601	6.879	5.162	1.722	1.722	1.722
145	7.740	6.882	6.882	5.162	4.301	3.440	2.581	0.861	0.861	0.861
150	0.000	0.000	0.000	1.722	0.000	0.000	0.000	0.000	0.000	0.000
155	0.861	0.861	0.861	1.722	0.000	0.000	0.000	0.000	0.861	0.000
160	1.722	1.722	1.722	1.722	0.000	0.000	0.000	0.000	1.722	0.000
165	0.861	0.861	0.861	0.861	0.000	0.000	0.000	0.000	1.722	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.722	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.861	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>	<u>185</u>	<u>190</u>	<u>195</u>
0	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388
5	1290.954	1290.093	1289.234	1287.514	1286.653	1286.653	1284.934	1284.934	1288.373	1290.093
10	1274.519	1272.797	1271.080	1267.640	1265.918	1265.918	1262.479	1262.479	1269.357	1272.797
15	1256.459	1253.017	1248.719	1242.699	1236.679	1234.959	1230.659	1230.659	1237.537	1241.838
20	1238.398	1233.236	1226.358	1217.757	1207.439	1203.999	1198.838	1198.838	1205.716	1210.878
25	1191.098	1184.217	1176.480	1169.599	1159.281	1151.540	1144.659	1146.379	1153.257	1154.980
30	1143.798	1135.197	1126.601	1121.440	1111.122	1099.081	1090.480	1093.920	1100.798	1099.081
35	1069.839	1062.958	1053.501	1048.340	1037.161	1025.120	1016.519	1020.820	1025.120	1024.261
40	995.880	990.718	980.400	975.239	963.199	951.158	942.557	947.719	949.441	949.441
45	887.520	878.058	872.899	876.338	867.740	855.700	849.680	853.980	856.561	854.841
50	779.160	765.397	765.397	777.437	772.281	760.241	756.802	760.241	763.680	760.241
55	657.901	632.098	626.078	632.098	645.861	643.280	639.841	645.000	637.260	622.641
60	536.642	498.799	486.758	486.758	519.440	526.319	522.879	529.758	510.839	485.041
65	485.042	434.300	397.320	368.080	374.959	389.580	396.459	395.600	368.939	360.340
70	433.441	369.800	307.881	249.402	230.478	252.841	270.038	261.442	227.038	235.639
75	368.942	310.460	249.399	190.920	160.820	161.681	162.539	161.681	151.360	182.319
80	304.442	251.119	190.917	132.438	91.161	70.520	55.040	61.919	75.681	128.999
85	261.440	211.559	150.499	102.340	63.641	45.581	34.402	37.841	50.740	95.459
90	218.437	171.998	110.080	72.242	36.121	20.641	13.763	13.763	25.798	61.919
95	167.698	123.840	84.280	54.182	29.240	14.621	10.321	9.463	17.200	41.280
100	116.958	75.681	58.479	36.121	22.358	8.601	6.879	5.162	8.601	20.641
105	76.540	49.881	36.121	21.500	13.760	5.162	4.301	3.442	6.020	12.902
110	36.121	24.081	13.763	6.879	5.162	1.722	1.722	1.722	3.439	5.162
115	24.942	15.480	7.743	3.440	2.581	0.861	0.861	0.861	1.720	2.581
120	13.763	6.879	1.722	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	7.743	4.301	0.861	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	1.722	1.722	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.861	0.861	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.861	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	1.722	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	1.722	0.000	0.000	0.861
160	0.000	0.000	0.000	0.000	0.000	0.000	1.722	0.000	0.000	1.722
165	0.000	0.000	0.861	0.861	0.000	0.000	0.861	0.000	0.000	0.861
170	0.000	0.000	1.722	1.722	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.861	0.861	0.000	0.000	0.000	0.000	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. Horizontal Angles
Angles

	<u>200</u>	<u>205</u>	<u>210</u>	<u>215</u>	<u>220</u>	<u>225</u>	<u>230</u>	<u>235</u>	<u>240</u>	<u>245</u>
0	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388
5	1290.954	1291.815	1292.673	1293.535	1295.254	1295.254	1295.254	1294.393	1292.673	1292.673

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CANDELA TABULATION - (Cont.)

10	1274.519	1276.241	1277.958	1279.681	1283.120	1283.120	1283.120	1281.398	1277.958	1277.958
15	1243.560	1244.421	1242.699	1245.280	1245.280	1246.141	1246.999	1249.578	1249.580	1249.580
20	1212.600	1212.600	1207.439	1210.878	1207.439	1209.161	1210.878	1217.757	1221.201	1221.201
25	1155.841	1154.119	1154.980	1159.278	1160.139	1162.720	1167.879	1175.619	1179.922	1185.081
30	1099.081	1095.637	1102.521	1107.677	1112.839	1116.278	1124.879	1133.480	1138.642	1148.960
35	1025.120	1023.398	1026.840	1031.999	1042.320	1054.360	1065.539	1076.721	1086.180	1096.501
40	951.158	951.158	951.158	956.320	971.800	992.441	1006.198	1019.961	1033.718	1044.041
45	846.240	845.379	853.980	861.720	877.200	895.260	906.439	922.780	947.719	972.661
50	741.322	739.600	756.802	767.119	782.599	798.079	806.680	825.599	861.720	901.280
55	608.020	611.460	639.841	668.219	711.219	751.640	787.761	826.460	864.301	903.000
60	474.718	483.319	522.879	569.318	639.838	705.201	768.842	827.321	866.881	904.719
65	385.280	421.401	475.579	531.480	596.838	662.202	720.681	772.281	821.301	858.280
70	295.841	359.482	428.279	493.642	553.838	619.202	672.519	717.241	775.720	811.841
75	246.821	307.882	372.381	434.302	503.099	567.602	621.780	674.242	732.721	771.420
80	197.801	256.281	316.482	374.961	452.360	516.001	571.040	631.242	689.721	730.999
85	160.822	219.302	275.202	335.401	417.100	482.461	541.801	597.702	645.861	675.959
90	123.842	182.322	233.922	295.841	381.840	448.920	512.561	564.162	602.000	620.919
95	80.840	129.860	176.302	216.721	280.361	324.219	373.242	411.080	447.201	465.259
100	37.838	77.398	118.681	137.600	178.882	199.518	233.922	257.998	292.402	309.598
105	23.220	46.439	72.240	86.861	113.522	131.580	154.802	177.161	205.542	224.460
110	8.601	15.480	25.798	36.121	48.161	63.641	75.681	96.323	118.681	139.322
115	4.301	8.601	17.199	25.800	36.979	48.161	56.759	71.381	85.999	98.900
120	0.000	1.722	8.601	15.480	25.798	32.682	37.838	46.439	53.318	58.479
125	0.000	0.861	5.162	10.321	18.058	24.081	30.098	36.119	42.139	46.439
130	0.000	0.000	1.722	5.162	10.318	15.480	22.358	25.798	30.959	34.399
135	0.000	0.000	0.861	2.581	6.020	8.601	12.899	17.200	20.639	22.359
140	0.000	0.000	0.000	0.000	1.722	1.722	3.439	8.601	10.318	10.318
145	0.000	0.000	0.000	0.000	0.861	0.861	1.720	4.301	5.159	5.159
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.000	0.861
160	0.000	1.722	1.722	1.722	1.722	1.722	1.722	1.722	0.000	1.722
165	0.000	0.861	1.722	1.722	1.722	1.722	1.722	1.722	0.861	1.722
170	0.000	0.000	1.722	1.722	1.722	1.722	1.722	1.722	1.722	1.722
175	0.000	0.000	0.861	0.861	0.861	0.861	0.861	0.861	0.861	0.861
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>250</u>	<u>255</u>	<u>260</u>	<u>265</u>	<u>270</u>	<u>275</u>	<u>280</u>	<u>285</u>	<u>290</u>	<u>295</u>
0	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388
5	1290.954	1290.954	1290.954	1290.954	1290.954	1290.954	1290.954	1290.954	1291.815	1291.815
10	1274.519	1274.519	1274.519	1274.519	1274.519	1274.519	1274.519	1274.519	1276.241	1276.241
15	1248.719	1248.719	1248.719	1250.439	1250.439	1250.439	1249.580	1248.719	1250.441	1248.721
20	1222.918	1222.918	1222.918	1226.358	1226.358	1226.358	1224.641	1222.918	1224.641	1221.201
25	1190.240	1193.679	1197.118	1199.699	1200.558	1201.419	1198.841	1196.260	1195.402	1190.240
30	1157.561	1164.439	1171.318	1173.040	1174.757	1176.480	1173.040	1169.601	1166.162	1159.278
35	1105.960	1112.839	1118.859	1118.859	1121.437	1121.440	1119.720	1118.001	1113.700	1108.539
40	1054.359	1061.238	1066.400	1064.677	1068.117	1066.400	1066.400	1066.400	1061.238	1057.799
45	988.999	1003.620	1015.661	1022.539	1027.698	1026.840	1024.259	1018.239	1006.198	991.580
50	923.638	946.002	964.921	980.400	987.279	987.279	982.117	970.077	951.158	925.361
55	926.219	947.722	965.780	979.539	985.560	985.560	980.398	970.077	951.158	925.361
60	928.800	949.441	966.638	978.678	983.840	983.840	978.678	970.077	951.158	925.361
65	883.220	915.040	929.659	942.560	948.580	948.580	942.560	929.659	908.159	873.760
70	837.639	880.639	892.679	906.442	913.320	913.320	906.442	889.240	865.159	822.159
75	804.099	844.518	859.139	874.622	881.500	880.639	873.760	854.839	823.018	780.880
80	770.559	808.397	825.599	842.801	849.679	847.957	841.078	820.437	780.877	739.600

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CANDELA TABULATION - (Cont.)

85	708.641	737.019	752.499	765.400	771.420	769.698	764.539	749.059	720.678	691.439
90	646.722	665.641	679.398	687.999	693.161	691.438	687.999	677.681	660.479	643.277
95	488.481	505.680	517.718	526.319	531.481	530.619	526.319	516.001	502.241	485.039
100	330.239	345.719	356.037	364.638	369.800	369.800	364.638	354.320	344.002	326.800
105	246.818	263.159	275.200	283.798	288.960	288.101	282.940	272.619	258.862	242.521
110	163.397	180.599	194.362	202.958	208.119	206.402	201.241	190.917	173.721	158.241
115	114.377	124.701	131.582	137.600	141.039	139.322	136.741	130.718	121.262	110.941
120	65.358	68.803	68.803	72.242	73.959	72.242	72.242	70.520	68.803	63.641
125	52.459	55.902	56.763	59.341	60.199	58.482	58.482	57.621	55.043	50.740
130	39.560	43.000	44.722	46.439	46.439	44.722	44.722	44.722	41.283	37.838
135	26.662	28.382	30.962	30.960	30.960	30.962	30.101	29.243	27.523	24.078
140	13.763	13.763	17.202	15.480	15.480	17.202	15.480	13.763	13.763	10.318
145	6.882	7.743	9.462	9.460	8.601	9.462	7.740	6.882	6.882	5.159
150	0.000	1.722	1.722	3.439	1.722	1.722	0.000	0.000	0.000	0.000
155	0.861	0.861	1.722	2.581	0.861	1.722	0.861	0.861	0.000	0.861
160	1.722	0.000	1.722	1.722	0.000	1.722	1.722	1.722	0.000	1.722
165	1.722	0.861	1.722	2.581	0.861	1.722	1.722	1.722	0.861	0.861
170	1.722	1.722	1.722	3.439	1.722	1.722	1.722	1.722	1.722	0.000
175	0.861	0.861	0.861	1.720	0.861	0.861	0.861	0.861	0.861	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>300</u>	<u>305</u>	<u>310</u>	<u>315</u>	<u>320</u>	<u>325</u>	<u>330</u>	<u>335</u>	<u>340</u>	<u>345</u>
0	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388	1307.388
5	1292.673	1294.393	1295.254	1296.113	1296.974	1296.974	1296.974	1296.974	1294.393	1294.393
10	1277.958	1281.398	1283.120	1284.837	1286.559	1286.559	1286.559	1286.559	1281.398	1281.398
15	1249.580	1251.300	1251.300	1250.439	1249.580	1249.580	1248.719	1248.719	1246.999	1250.439
20	1221.201	1221.201	1219.479	1216.040	1212.600	1212.600	1210.878	1210.878	1212.600	1219.479
25	1185.939	1181.641	1178.199	1173.041	1166.159	1162.720	1160.139	1156.700	1156.699	1160.139
30	1150.677	1142.081	1136.919	1130.041	1119.717	1112.839	1109.399	1102.521	1100.798	1100.798
35	1098.218	1088.761	1081.879	1070.701	1059.518	1044.900	1035.441	1026.840	1025.978	1026.840
40	1045.758	1035.440	1026.839	1011.360	999.319	976.961	961.482	951.158	951.158	952.881
45	966.638	942.560	926.219	910.740	899.560	878.919	865.162	853.980	845.379	848.821
50	887.517	849.679	825.599	810.119	799.801	780.877	768.842	756.802	739.600	744.761
55	887.517	840.220	808.400	761.961	724.120	682.838	647.581	630.381	607.159	608.881
60	887.517	830.760	791.200	713.802	648.439	584.798	526.319	503.960	474.718	473.001
65	835.058	778.299	729.279	667.361	602.000	543.518	475.580	430.860	386.138	364.641
70	782.599	725.837	667.358	620.919	555.561	502.238	424.840	357.759	297.558	256.281
75	740.458	682.838	622.639	568.460	497.940	437.739	367.219	303.581	243.379	192.640
80	698.317	639.838	577.919	516.001	440.319	373.239	309.598	249.402	189.200	128.999
85	651.878	603.720	543.521	480.741	409.360	331.101	266.599	214.142	148.779	96.320
90	605.439	567.601	509.122	445.481	378.401	288.962	223.599	178.882	108.357	63.641
95	454.080	416.242	378.401	327.662	276.061	221.021	170.279	128.140	81.699	49.881
100	302.720	264.882	247.680	209.842	173.721	153.079	116.958	77.398	55.040	36.121
105	218.440	188.342	169.421	142.762	117.820	99.759	75.679	51.598	35.260	21.500
110	134.160	111.802	91.161	75.681	61.919	46.439	34.399	25.798	15.480	6.879
115	95.461	81.701	67.941	56.759	45.580	33.540	24.081	16.338	8.601	4.301
120	56.762	51.601	44.722	37.838	29.242	20.641	13.763	6.879	1.722	1.722
125	45.581	41.280	33.540	26.659	20.641	13.760	7.743	3.440	0.861	0.861
130	34.399	30.959	22.358	15.480	12.040	6.879	1.722	0.000	0.000	0.000
135	21.500	18.061	12.899	8.601	6.881	3.440	0.861	0.000	0.000	0.000
140	8.601	5.162	3.439	1.722	1.722	0.000	0.000	0.000	0.000	0.000
145	4.301	2.581	1.720	0.861	0.861	0.000	0.861	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	1.722	0.000	0.000	0.000
155	0.861	0.861	1.720	1.720	0.861	0.861	1.722	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

160	1.722	1.722	3.439	3.439	1.722	1.722	1.722	0.000	0.000	0.000
165	0.861	0.861	2.581	2.581	0.861	1.722	0.861	0.000	0.000	0.000
170	0.000	0.000	1.722	1.722	0.000	1.722	0.000	0.000	0.000	0.000
175	0.000	0.000	0.861	0.861	0.000	0.861	0.000	0.000	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>350</u>	<u>355</u>	<u>360</u>
0	1307.388	1307.388	1307.388
5	1291.815	1290.093	1283.214
10	1276.241	1272.797	1259.039
15	1246.141	1242.699	1228.080
20	1216.040	1212.600	1197.121
25	1160.139	1157.561	1143.801
30	1104.238	1102.521	1090.480
35	1027.698	1026.840	1017.380
40	951.158	951.158	944.280
45	854.838	857.419	850.541
50	758.518	763.680	756.802
55	629.520	644.141	642.422
60	500.521	524.602	528.041
65	361.202	383.560	405.060
70	221.882	242.518	282.078
75	155.661	157.380	166.840
80	89.439	72.242	51.601
85	63.639	47.300	30.960
90	37.838	22.358	10.318
95	28.379	16.338	8.599
100	18.919	10.318	6.879
105	12.041	6.020	4.301
110	5.162	1.722	1.722
115	2.581	0.861	0.861
120	0.000	0.000	0.000
125	0.000	0.000	0.000
130	0.000	0.000	0.000
135	0.000	0.861	0.000
140	0.000	1.722	0.000
145	0.861	0.861	0.000
150	1.722	0.000	0.000
155	0.861	0.000	0.861
160	0.000	0.000	1.722
165	0.000	0.000	0.861
170	0.000	0.000	0.000
175	0.000	0.000	0.000
180	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	477.45	6.10	8.90
0-30	1024.09	13.10	19.10
0-40	1698.17	21.70	31.70
0-60	3105.08	39.70	57.90
0-80	4307.15	55.00	80.40
0-90	4783.28	61.10	89.20
10-90	4660.21	59.50	86.90
20-40	1220.72	15.60	22.80
20-50	1933.58	24.70	36.10
40-70	2047.68	26.20	38.20
60-80	1202.07	15.40	22.40
70-80	561.30	7.20	10.50
80-90	476.14	6.10	8.90
90-110	476.64	6.10	8.90
90-120	539.21	6.90	10.10
90-130	564.07	7.20	10.50
90-150	576.25	7.40	10.80
90-180	576.83	7.40	10.80
110-180	100.18	1.30	1.90
0-180	5360.11	68.50	100.00

Total Luminaire Efficiency = 68.50%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.08
10-20	354.38
20-30	546.64
30-40	674.08
40-50	712.86
50-60	694.05
60-70	640.77
70-80	561.30
80-90	476.14
90-100	322.13
100-110	154.52
110-120	62.56
120-130	24.86
130-140	10.22
140-150	1.96
150-160	0.30
160-170	0.24
170-180	0.04

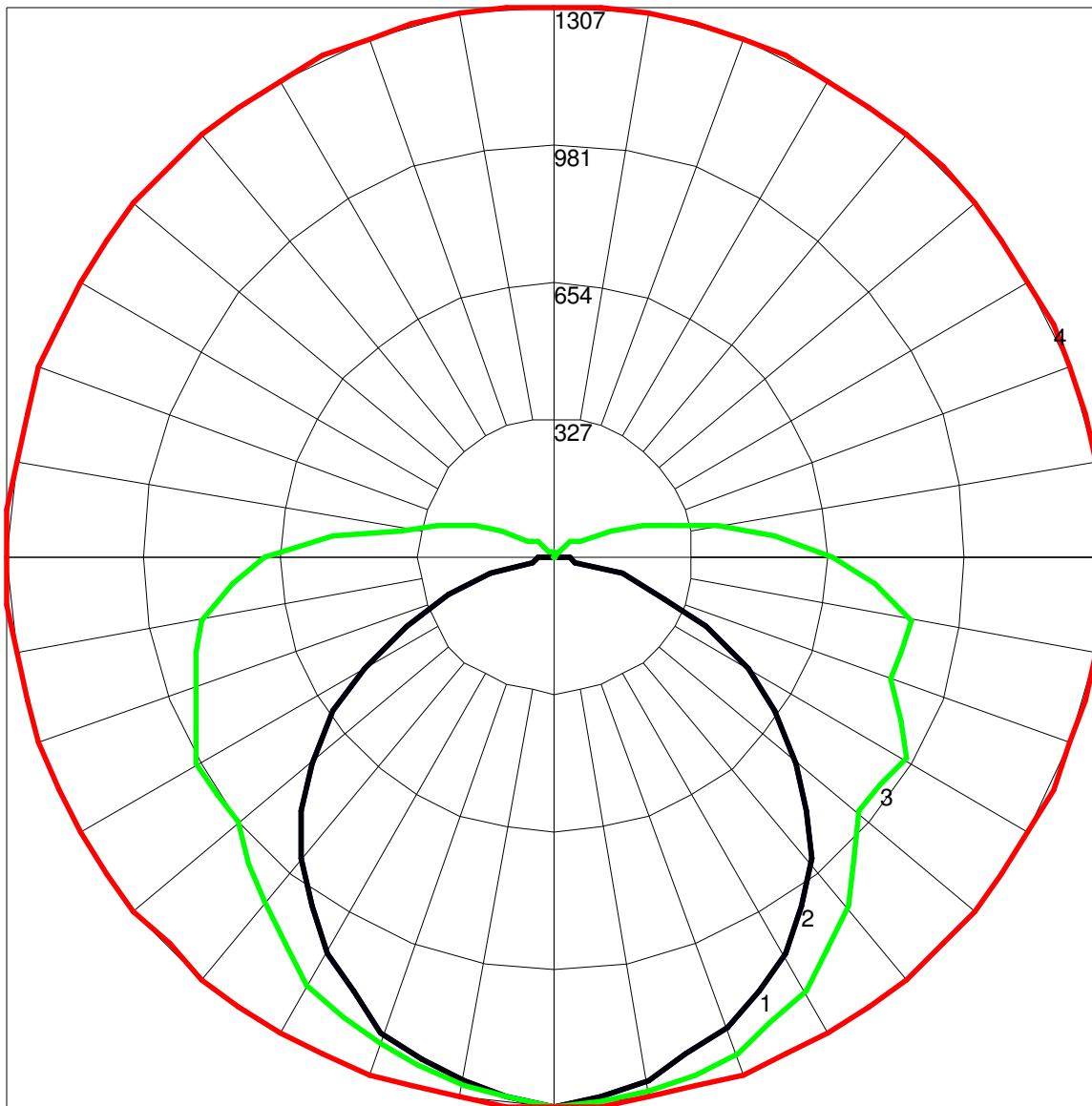
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	80	80	80	80	77	77	77	77	72	72	72	67	67	67	63	63	63	61
1	70	66	62	59	68	64	60	57	59	56	54	55	53	51	52	50	48	46
2	63	56	51	46	60	54	49	45	51	46	43	47	44	41	44	41	39	37
3	57	49	43	38	55	47	41	37	44	39	35	41	37	34	38	35	32	30
4	52	43	36	31	50	42	35	31	39	34	29	36	32	28	34	30	27	25
5	48	38	32	27	46	37	31	26	35	29	25	32	28	24	30	26	23	22
6	44	34	28	23	42	33	27	23	31	26	22	29	25	21	28	23	20	19
7	41	31	25	20	39	30	24	20	28	23	19	27	22	19	25	21	18	16
8	38	28	22	18	36	27	22	18	26	21	17	24	20	17	23	19	16	15
9	35	26	20	16	34	25	20	16	24	19	15	22	18	15	21	17	14	13
10	33	24	18	14	32	23	18	14	22	17	14	21	16	13	20	16	13	12

POLAR GRAPH



Maximum Candela = 1307.388 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)
3 - Vertical Plane Through Horizontal Angles (90 - 270)
4 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)