



IES INDOOR REPORT
PHOTOMETRIC FILENAME : 42E-48LED41DMVFRWH40-PH.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 42E-48LED41DMVFRWH40
 [TESTDATE] 04-Apr-2018 10:48:13
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUE DATE] 4/4/2018 12:28:28 PM
 [MANUFAC] Mobern Lighting Co.
 [LAMP] LED Module
 [MORE] (1) PHILIPS XI040C110V054BPT1 Driver Set to 880mA
 [BOARD/LAMP TYPE] (2) Fortimo LED Strip VO 22in 6250lm 840 LV2
 [OTHER] Extrapolated from test RKDFR48LH48W4800LDMV40KWH

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4846
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	41
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.44
Spacing Criterion (Diagonal)	1.46
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	1.17 m
Luminous Width (90-270)	0.05 m
Luminous Height	0.08 m

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18744	11334	10654
55	16897	9701	9244
65	15024	8067	7991
75	12187	6471	6704
85	6309	4957	5573

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CANDELA TABULATION

	<u>0</u>	<u>10</u>	<u>20</u>	<u>30</u>	<u>40</u>	<u>50</u>	<u>60</u>	<u>70</u>	<u>80</u>	<u>90</u>
0	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551
3	1339.410	1339.480	1339.631	1340.306	1340.749	1341.846	1343.033	1344.211	1345.248	1345.872
6	1334.861	1334.237	1335.092	1335.927	1337.216	1339.309	1342.943	1347.090	1350.411	1353.088
9	1317.690	1319.542	1324.796	1327.996	1331.610	1335.273	1341.000	1347.079	1352.122	1355.705
12	1292.829	1300.328	1312.587	1323.970	1331.247	1336.350	1342.067	1348.509	1353.491	1357.144
15	1266.851	1273.615	1292.356	1309.950	1323.064	1333.381	1340.749	1348.096	1355.655	1360.738
18	1239.253	1244.245	1257.269	1281.073	1298.898	1318.596	1330.814	1340.557	1352.615	1360.607
21	1207.679	1209.592	1223.733	1250.013	1273.011	1296.785	1315.999	1326.456	1339.833	1350.351
24	1169.744	1173.851	1193.709	1221.861	1247.688	1275.789	1299.623	1309.366	1321.192	1330.382
27	1124.411	1136.268	1159.840	1199.537	1229.530	1256.535	1282.261	1291.561	1302.763	1304.283
30	1075.576	1093.663	1122.992	1165.134	1200.402	1229.671	1255.659	1270.384	1285.039	1280.721
33	1027.023	1045.864	1080.770	1119.560	1158.773	1197.544	1220.734	1240.431	1260.953	1265.613
36	977.422	998.237	1039.322	1073.694	1116.239	1166.725	1189.401	1211.242	1229.319	1248.785
39	925.477	953.639	997.532	1025.543	1078.646	1136.872	1160.052	1181.712	1200.352	1219.888
42	875.232	903.535	943.835	985.726	1044.979	1095.112	1128.679	1146.242	1170.147	1183.443
45	828.742	842.018	890.571	942.084	999.233	1045.572	1092.898	1113.310	1136.550	1146.353
48	775.045	781.668	846.889	896.147	951.837	1000.803	1053.866	1081.353	1101.926	1109.646
51	706.271	736.667	797.027	851.157	909.302	960.714	1010.466	1041.546	1067.615	1072.547
54	639.289	689.946	747.920	796.625	860.407	919.136	960.654	999.928	1027.727	1033.444
57	589.175	631.871	685.406	746.310	814.289	872.454	915.190	958.872	987.648	991.302
60	539.112	568.652	623.235	692.502	762.132	824.233	870.673	915.130	944.379	948.294
63	472.230	505.092	572.548	638.514	706.231	769.922	826.306	866.989	898.875	906.001
66	403.013	437.113	511.503	587.887	659.509	715.229	776.907	817.298	851.288	860.799
69	347.273	380.075	454.314	527.537	605.913	661.411	724.599	770.093	802.432	809.639
72	294.311	332.568	400.879	469.633	553.263	610.633	675.412	722.556	754.281	757.150
75	231.706	278.488	346.810	413.450	494.524	564.657	623.960	671.738	703.503	707.892
78	166.958	218.290	292.549	364.343	442.206	511.835	570.122	620.668	651.759	658.442
81	118.294	167.411	249.401	325.412	399.238	468.808	526.722	581.455	607.835	612.314
84	69.942	123.296	196.268	278.478	342.713	415.544	480.785	533.475	558.306	560.379
87	32.117	84.667	154.850	238.098	303.842	377.186	442.880	492.460	511.594	524.246
90	8.767	56.314	129.939	202.488	273.094	326.015	401.684	440.998	477.957	483.311
93	0.785	15.883	42.364	76.363	84.304	105.652	131.076	178.452	141.604	156.430
96	0.081	1.117	3.301	3.321	5.495	4.992	10.780	17.926	10.719	10.206
99	0.040	0.252	1.238	1.308	1.097	1.409	1.459	1.600	1.681	0.483
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	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. Horizontal Angles
Angles

	100	110	120	130	140	150	160	170	180	190
0	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551
3	1346.375	1346.385	1346.103	1345.580	1344.704	1343.969	1343.335	1342.772	1342.379	1342.178
6	1354.044	1353.380	1351.216	1348.267	1345.459	1342.812	1340.205	1337.749	1337.810	1338.263
9	1357.295	1356.541	1352.676	1345.841	1338.424	1329.919	1324.393	1317.549	1316.572	1317.438
12	1359.258	1358.443	1352.595	1342.661	1331.308	1318.455	1306.316	1295.788	1290.263	1291.611
15	1361.332	1356.571	1346.315	1333.562	1317.790	1305.753	1294.409	1279.966	1270.736	1270.163
18	1357.507	1345.117	1328.137	1311.530	1293.101	1283.881	1273.726	1262.030	1249.852	1250.989
21	1342.671	1326.013	1305.783	1286.931	1267.878	1253.555	1239.404	1224.558	1217.835	1223.642
24	1321.363	1305.642	1286.508	1267.153	1242.182	1219.234	1198.027	1176.850	1178.149	1189.341
27	1300.680	1287.062	1269.529	1245.433	1216.003	1190.267	1157.143	1134.668	1136.389	1147.390
30	1281.597	1268.432	1251.049	1219.556	1185.184	1158.914	1119.661	1093.723	1092.626	1095.505
33	1257.098	1243.329	1229.480	1195.219	1159.881	1130.269	1074.409	1046.367	1045.713	1038.154
36	1227.064	1214.101	1195.309	1158.854	1127.733	1097.226	1026.368	992.530	994.492	981.297
39	1201.399	1181.057	1147.219	1115.494	1077.488	1037.893	986.400	938.652	938.984	934.223
42	1173.710	1145.286	1109.364	1079.552	1030.777	977.030	945.073	884.653	882.932	890.702
45	1138.321	1112.384	1078.284	1046.992	987.487	919.559	889.112	829.175	829.356	839.924
48	1099.591	1075.023	1041.899	1002.122	946.815	872.736	834.690	773.143	774.240	781.396
51	1063.468	1032.136	1003.742	951.767	897.798	835.284	761.991	723.241	713.407	726.250
54	1023.188	993.325	963.925	907.893	839.220	783.470	706.100	672.573	648.991	671.346
57	980.794	951.907	922.477	861.373	793.816	724.660	650.904	619.108	584.414	617.528
60	935.924	908.739	879.812	809.085	748.232	661.411	603.538	560.097	521.820	559.322
63	894.638	868.841	835.244	757.039	686.916	609.154	561.788	499.264	461.742	497.916
66	854.116	823.116	776.042	706.694	629.113	565.301	500.180	434.436	400.406	432.101
69	808.652	770.385	712.079	652.816	575.436	507.115	440.233	371.157	334.802	366.205
72	759.938	718.812	661.925	601.988	531.402	453.026	385.097	310.173	269.470	301.839
75	705.546	665.780	615.575	554.984	475.541	400.939	327.505	249.703	209.292	240.835
78	650.551	610.603	565.744	500.985	426.575	353.543	271.926	191.487	152.847	184.149
81	603.719	568.783	508.917	446.665	377.005	300.692	218.964	132.848	94.480	129.053
84	555.135	533.777	465.577	401.342	331.118	258.993	172.393	97.671	50.778	92.085
87	521.196	481.630	412.615	364.735	291.362	212.895	135.596	62.041	17.825	60.994
90	458.471	435.603	381.262	329.347	258.077	183.455	119.784	44.105	3.321	47.940
93	149.646	181.301	154.226	137.337	107.595	87.777	58.608	16.839	0.513	21.680
96	17.211	20.382	15.913	13.709	11.867	9.411	8.585	2.677	0.252	2.949
99	2.446	1.409	0.705	0.171	0.161	0.020	0.050	0.574	0.000	0.654
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	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>200</u>	<u>210</u>	<u>220</u>	<u>230</u>	<u>240</u>	<u>250</u>	<u>260</u>	<u>270</u>	<u>280</u>	<u>290</u>
0	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551
3	1342.117	1341.675	1341.695	1341.342	1340.809	1340.296	1339.853	1339.501	1339.360	1339.329
6	1340.718	1342.530	1343.557	1344.050	1343.839	1343.154	1342.490	1341.856	1341.624	1341.463
9	1324.816	1330.402	1337.397	1340.618	1341.282	1341.181	1341.383	1341.745	1341.805	1341.141
12	1301.032	1315.808	1329.768	1335.424	1335.424	1335.646	1337.830	1339.662	1339.490	1337.387
15	1281.496	1300.197	1320.498	1329.939	1328.882	1330.855	1334.931	1336.250	1334.146	1329.466
18	1256.243	1273.977	1295.728	1309.748	1311.530	1321.273	1327.765	1326.970	1324.755	1316.864
21	1228.826	1239.857	1264.788	1278.487	1285.129	1302.814	1308.943	1308.309	1310.171	1301.103
24	1198.973	1205.243	1235.086	1253.706	1262.815	1281.073	1285.089	1286.035	1290.665	1279.865
27	1158.019	1172.945	1204.529	1225.192	1239.746	1255.387	1265.563	1265.754	1264.023	1248.201
30	1109.133	1133.631	1164.480	1187.137	1207.830	1222.545	1244.980	1243.380	1235.157	1216.406
33	1057.147	1099.179	1135.101	1159.397	1180.363	1188.284	1214.262	1214.322	1209.743	1187.076
36	1011.643	1070.091	1106.123	1127.270	1153.248	1164.500	1178.833	1181.490	1183.251	1159.548
39	979.325	1020.661	1055.627	1082.138	1111.679	1136.681	1146.716	1148.507	1148.688	1127.743
42	935.310	959.557	1004.286	1038.346	1069.899	1095.746	1111.458	1113.873	1107.361	1088.771
45	884.563	901.844	962.707	1002.293	1032.136	1056.714	1072.708	1075.858	1068.339	1049.498
48	821.123	859.823	922.186	955.551	989.671	1022.594	1032.860	1037.098	1028.895	1011.100
51	752.792	819.331	865.057	903.444	941.067	981.368	992.651	1000.079	988.111	970.779
54	696.347	756.516	799.785	861.675	895.815	932.542	947.106	962.415	943.805	928.406
57	637.004	692.975	748.776	815.124	857.447	880.285	903.907	921.088	901.170	879.611
60	584.666	633.038	695.220	756.304	810.716	831.017	859.209	875.524	855.938	828.732
63	540.068	585.964	631.347	699.709	758.861	786.731	812.376	825.874	809.538	780.581
66	479.044	540.883	577.791	648.579	701.883	738.731	763.028	773.093	761.759	732.078
69	419.630	474.655	530.355	590.544	646.062	684.672	710.609	718.973	714.927	681.743
72	360.881	415.715	488.515	533.999	597.831	635.041	658.704	667.994	669.292	630.925
75	299.565	362.702	433.147	486.764	546.660	588.903	608.651	622.752	617.085	578.566
78	245.787	314.763	380.779	438.270	493.749	537.169	562.120	575.748	562.221	524.507
81	200.334	263.874	323.227	380.024	434.013	478.490	504.589	514.412	503.079	475.138
84	157.064	226.181	275.026	338.597	400.859	442.608	464.872	467.368	464.862	438.643
87	123.367	183.747	254.272	305.895	353.946	405.962	431.799	445.437	426.726	401.443
90	108.692	170.068	230.478	289.429	337.882	375.364	418.935	428.809	402.348	379.481
93	59.957	104.243	121.706	164.945	192.684	228.486	204.662	214.395	190.379	212.804
96	8.887	11.414	16.356	18.721	25.132	31.685	24.579	18.701	17.724	28.876
99	0.060	0.111	0.423	0.473	2.335	4.871	4.308	2.869	3.986	5.938
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 42E-48LED41DMVFRWH40-PH.IES

CANDELA TABULATION - (Cont.)

108	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	0.000	0.000	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. Horizontal Angles
Angles

	<u>300</u>	<u>310</u>	<u>320</u>	<u>330</u>	<u>340</u>	<u>350</u>	<u>360</u>
0	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551	1339.551
3	1339.370	1339.470	1339.511	1339.430	1339.480	1339.410	1339.410
6	1341.131	1340.497	1339.702	1338.746	1337.306	1335.344	1334.861
9	1339.339	1335.887	1331.217	1324.936	1321.535	1316.884	1317.690
12	1333.441	1327.453	1319.260	1307.635	1297.821	1291.893	1292.829
15	1322.903	1315.898	1303.961	1291.732	1280.590	1269.519	1266.851
18	1305.692	1296.694	1283.197	1272.558	1260.198	1249.268	1239.253
21	1283.499	1272.548	1260.168	1246.721	1231.563	1217.140	1207.679
24	1257.682	1249.238	1233.738	1213.970	1195.390	1176.297	1169.744
27	1232.771	1223.985	1204.750	1181.309	1153.177	1134.950	1124.411
30	1208.394	1189.341	1164.108	1138.784	1108.479	1092.203	1075.576
33	1182.809	1152.885	1125.106	1094.810	1059.412	1046.428	1027.023
36	1150.279	1112.233	1089.647	1055.134	1012.781	997.673	977.422
39	1109.727	1072.456	1048.521	1004.578	971.152	947.368	925.477
42	1073.241	1032.931	1003.491	955.269	921.400	891.809	875.232
45	1033.051	987.980	951.877	906.243	869.435	829.769	828.742
48	987.145	941.480	904.099	858.726	822.482	770.234	775.045
51	941.470	897.043	858.273	808.310	768.875	722.657	706.271
54	891.709	849.637	804.667	748.745	721.449	671.466	639.289
57	844.192	797.309	756.516	698.722	663.243	614.841	589.175
60	798.124	747.850	704.147	643.315	595.999	558.306	539.112
63	752.641	699.216	646.435	586.991	538.709	497.261	472.230
66	697.142	647.220	595.757	535.810	476.618	425.709	403.013
69	636.490	590.312	539.665	475.883	420.687	362.833	347.273
72	585.048	536.404	487.116	421.271	364.272	310.837	294.311
75	534.572	488.374	428.407	368.178	305.251	256.013	231.706
78	480.463	437.365	377.266	318.044	251.273	196.922	166.958

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

81	428.779	390.361	334.661	276.274	215.633	149.284	118.294
84	391.247	347.776	285.252	232.743	167.270	106.216	69.942
87	357.740	312.448	255.591	197.455	130.291	68.724	32.117
90	336.876	285.846	242.214	170.884	107.907	47.849	8.767
93	170.209	131.127	101.888	78.628	48.785	14.524	0.785
96	19.828	10.709	10.669	5.435	3.815	1.409	0.081
99	5.143	3.241	2.335	2.365	1.459	0.382	0.040
102	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177	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

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	406.88	N.A.	8.40
0-30	1069.21	N.A.	22.10
0-40	1698.7	N.A.	35.10
0-60	3270.85	N.A.	67.50
0-80	4329.32	N.A.	89.30
0-90	4761.33	N.A.	98.30
10-90	4657.67	N.A.	96.10
20-40	1291.82	N.A.	26.70
20-50	1972.85	N.A.	40.70
40-70	2159.37	N.A.	44.60
60-80	1058.46	N.A.	21.80
70-80	471.25	N.A.	9.70
80-90	432.01	N.A.	8.90
90-110	84.57	N.A.	1.70
90-120	84.57	N.A.	1.70
90-130	84.57	N.A.	1.70
90-150	84.57	N.A.	1.70
90-180	84.57	N.A.	1.70
110-180	0.00	N.A.	0.00
0-180	4845.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	103.65
10-20	303.22
20-30	662.34
30-40	629.48
40-50	681.03
50-60	891.13
60-70	587.21
70-80	471.25
80-90	432.01
90-100	84.32
100-110	0.26
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

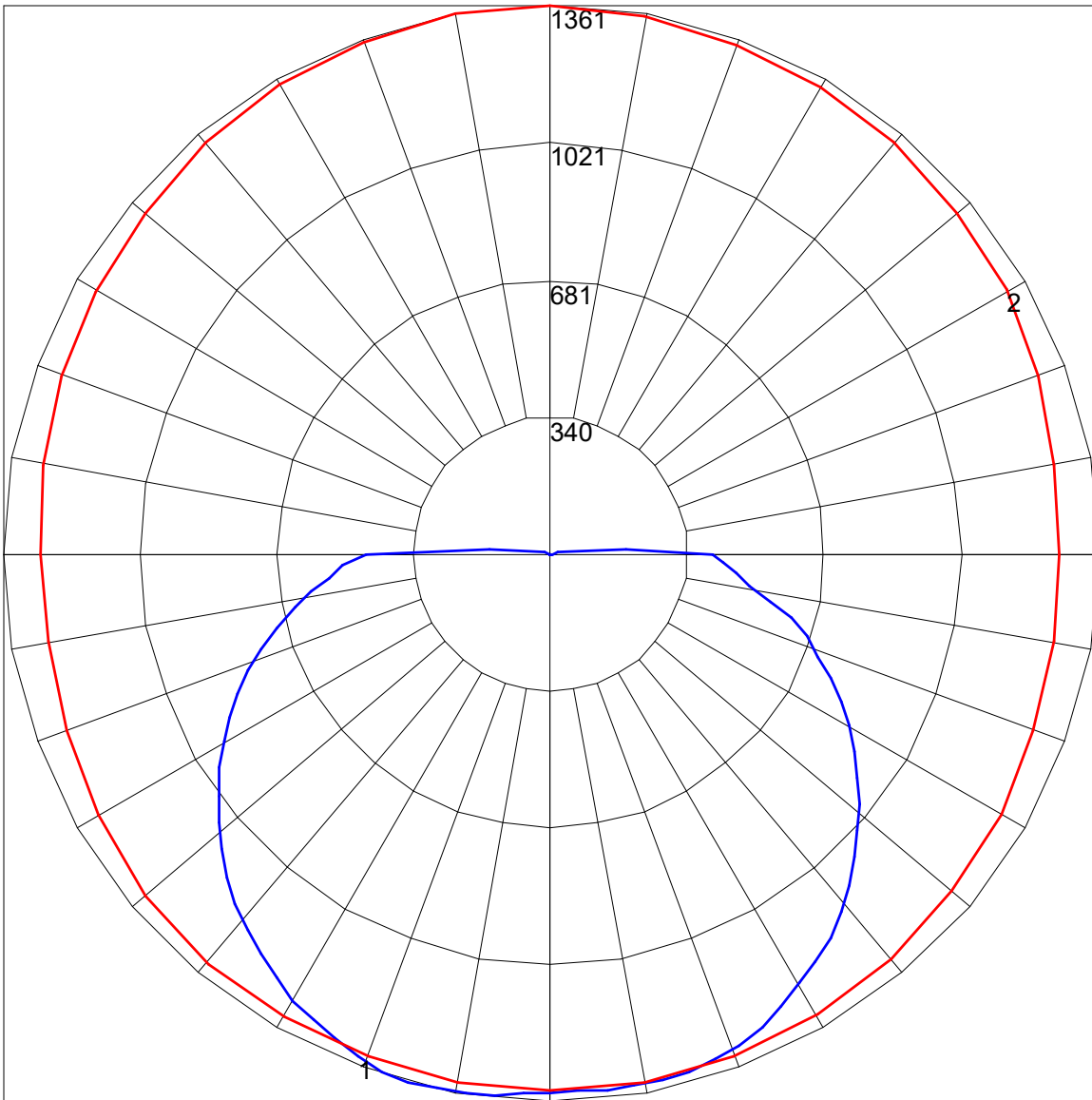
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98
1	105	99	93	88	102	96	91	86	91	87	83	87	84	80	83	80	78	75
2	94	84	76	69	91	82	75	68	78	72	66	75	69	65	71	67	63	60
3	85	73	64	56	82	71	63	56	68	61	54	65	59	53	62	57	52	50
4	78	64	54	47	75	63	54	46	60	52	46	57	50	45	55	49	44	41
5	71	57	47	40	69	56	46	39	53	45	39	51	44	38	49	43	38	35
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	44	38	33	30
7	60	46	37	30	59	45	36	30	43	35	29	42	34	29	40	34	29	27
8	56	42	33	26	54	41	32	26	39	32	26	38	31	26	37	30	25	23
9	52	38	29	24	51	37	29	23	36	29	23	35	28	23	34	27	23	21
10	49	35	27	21	48	35	27	21	33	26	21	32	26	21	31	25	21	19

POLAR GRAPH



Maximum Candela = 1361.332 Located At Horizontal Angle = 100, Vertical Angle = 15
1 - Vertical Plane Through Horizontal Angles (100 - 280) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (15) (Through Max. Cd.)