

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RWG-2-L45-940-S-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 14794038.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 8 DEC 2023
[TEST DATE] 5/11/2023
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] RWG-2-L45-940-S-DIM-UNV
[LUMINAIRE] 24 INCH RECESSED LINEAR WALL WASH
[MORE] WITH SPECULAR REFL AND LENS OVER LED
[LAMP] LED
[LAMPCAT] 22 INCH HLM LED MODULE
[BALLAST] 0-10V DIMMABLE LED DRIVER
[_SEARCH_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3805
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	46.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.40
Spacing Criterion (90-270)	1.22
Spacing Criterion (Diagonal)	1.60
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.81 ft
Luminous Width (90-270)	2.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18549	15463	5354
55	20359	15352	4891
65	25662	15870	4381
75	17133	16527	3993
85	29103	16059	3759

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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>
0.0	984.424	984.424	984.424	984.424	984.424	984.424	984.424	984.424	984.424
0.5	972.736	1000.606	1007.798	1010.495	1002.404	988.919	969.140	951.160	918.795
1.0	999.707	1025.778	1027.576	1021.283	1002.404	978.130	950.261	926.887	892.904
1.5	1027.576	1052.749	1049.153	1032.971	1002.404	968.241	931.382	902.613	867.731
2.0	1057.244	1079.719	1069.830	1043.759	1003.303	958.352	913.401	878.789	843.008
2.5	1086.013	1105.791	1090.508	1054.547	1004.202	948.463	894.971	854.965	818.735
3.0	1115.680	1134.559	1112.084	1066.234	1004.202	938.574	876.901	831.950	794.641
3.5	1146.247	1162.429	1132.761	1077.022	1004.202	928.685	858.651	809.475	771.896
4.0	1176.813	1191.197	1155.237	1088.710	1004.202	917.896	840.851	786.730	748.701
4.5	1208.279	1219.966	1176.813	1099.498	1003.303	907.108	823.769	765.063	726.226
5.0	1240.643	1249.634	1199.289	1110.286	1003.303	896.949	806.688	743.937	705.009
5.5	1272.109	1280.200	1221.764	1121.074	1001.505	886.970	789.607	722.989	683.163
6.0	1304.474	1310.767	1244.239	1131.862	1000.606	876.542	772.615	702.492	661.137
6.5	1336.838	1342.232	1265.816	1142.651	999.707	866.023	755.624	681.725	639.830
7.0	1370.102	1373.698	1289.190	1152.540	998.808	855.774	739.531	661.227	621.311
7.5	1404.265	1405.164	1311.666	1163.328	997.909	845.525	722.720	642.348	605.668
8.0	1437.528	1435.730	1333.242	1174.116	997.010	835.187	706.537	624.907	588.856
8.5	1468.994	1467.196	1356.617	1184.005	994.313	824.848	690.445	609.893	573.663
9.0	1501.358	1498.661	1378.193	1194.794	992.515	814.060	673.723	594.610	559.099
9.5	1537.319	1530.127	1401.567	1204.683	989.818	803.721	658.350	580.495	546.602
10.0	1569.684	1560.693	1424.043	1214.572	988.020	793.023	642.348	567.819	532.668
10.5	1603.846	1592.159	1446.518	1224.461	985.323	782.594	628.593	555.413	518.733
11.0	1636.211	1621.827	1468.095	1233.451	983.525	772.525	615.467	542.467	505.248
11.5	1668.576	1651.494	1489.671	1242.441	980.828	761.647	602.791	529.521	492.032
12.0	1700.041	1681.162	1511.248	1251.432	978.130	751.758	590.924	516.845	479.176
12.5	1733.305	1710.829	1533.723	1261.321	975.433	740.700	578.877	504.349	466.680
13.0	1764.770	1740.497	1555.299	1270.311	972.736	730.092	567.639	492.481	454.273
13.5	1795.337	1768.366	1577.775	1279.301	969.140	719.663	559.368	480.794	442.586
14.0	1825.004	1797.135	1597.553	1288.291	965.544	708.785	548.850	468.837	430.359
14.5	1855.571	1825.903	1619.130	1295.483	961.948	698.716	538.421	457.420	419.122
15.0	1886.138	1852.874	1638.908	1304.474	958.352	688.557	527.903	446.182	407.884
15.5	1917.603	1880.744	1659.585	1312.565	955.655	678.129	517.834	435.214	396.916
16.0	1944.574	1906.815	1678.465	1320.656	952.059	667.970	507.765	424.606	386.847
16.5	1971.544	1932.886	1697.344	1328.747	947.564	656.822	497.876	414.267	375.789
17.0	1996.717	1958.059	1717.122	1336.838	943.968	646.303	488.256	404.108	365.630
17.5	2020.990	1982.332	1736.002	1344.030	939.473	635.965	478.727	394.219	355.831
18.0	2044.365	2004.808	1755.780	1353.021	934.978	625.716	469.646	384.060	345.582
18.5	2065.941	2026.384	1773.760	1360.213	931.382	615.377	460.297	374.620	336.502
19.0	2087.517	2047.062	1789.943	1367.405	926.887	605.848	450.857	365.091	326.433
19.5	2109.094	2065.941	1807.024	1373.698	921.492	597.217	442.047	355.561	317.173
20.0	2128.872	2083.921	1823.206	1379.991	917.896	588.407	432.697	346.391	308.273
20.5	2150.449	2102.801	1839.389	1388.082	913.401	579.866	424.246	337.131	298.833
21.0	2167.530	2119.882	1854.672	1393.476	908.007	571.685	415.526	328.591	290.382
21.5	2185.510	2136.064	1869.056	1400.668	903.512	564.673	406.805	319.960	281.482
22.0	2200.794	2152.247	1882.542	1406.063	898.028	557.031	398.624	311.330	273.121
22.5	2216.077	2167.530	1894.229	1410.558	892.274	549.569	390.083	302.789	264.850
23.0	2230.461	2182.813	1905.916	1416.851	887.689	541.478	381.992	294.608	256.040
23.5	2247.542	2196.298	1914.007	1421.346	882.115	533.926	373.901	286.517	249.028
24.0	2261.028	2208.885	1922.997	1425.841	877.261	525.565	365.720	278.605	240.757
24.5	2273.614	2219.673	1931.088	1430.336	871.237	517.564	358.078	270.784	233.205
25.0	2284.402	2229.562	1938.281	1434.831	865.663	509.563	349.897	263.322	226.193
25.5	2291.594	2241.249	1946.372	1438.427	859.460	501.741	342.436	255.950	218.641
26.0	2298.786	2249.340	1954.463	1441.124	852.987	494.369	335.064	248.758	212.078
26.5	2301.483	2255.634	1960.756	1443.821	846.874	486.458	327.602	241.656	204.886

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27.0	2301.483	2260.129	1967.049	1446.518	840.581	479.266	320.589	234.643	198.143
27.5	2299.685	2261.028	1970.645	1448.316	833.479	471.714	313.038	228.081	192.030
28.0	2297.887	2260.129	1975.140	1449.215	827.995	464.252	306.025	221.248	185.287
28.5	2295.190	2257.432	1978.736	1451.013	820.623	457.240	299.283	215.045	179.534
29.0	2290.695	2252.937	1982.332	1452.811	814.419	449.688	292.270	208.842	173.420
29.5	2286.200	2247.542	1985.029	1452.811	807.407	442.766	285.887	202.818	167.487
30.0	2278.109	2241.249	1985.929	1451.912	799.855	435.484	279.145	196.975	162.183
30.5	2270.917	2234.956	1986.828	1451.912	793.023	428.382	272.942	190.951	156.159
31.0	2265.523	2228.663	1985.929	1451.013	785.651	421.549	266.559	185.557	151.215
31.5	2258.331	2220.572	1985.029	1450.114	779.358	414.627	260.265	180.073	145.910
32.0	2252.038	2211.582	1982.332	1449.215	772.435	407.704	254.422	174.679	140.876
32.5	2243.047	2202.592	1978.736	1446.518	764.884	400.602	248.039	169.555	136.111
33.0	2234.956	2190.904	1972.443	1445.619	758.141	393.680	242.285	164.430	131.077
33.5	2227.764	2181.914	1967.948	1442.922	750.320	386.937	236.621	159.576	126.761
34.0	2218.774	2172.025	1961.655	1441.124	742.768	380.104	230.868	154.901	122.087
34.5	2209.784	2161.237	1951.766	1437.528	736.115	373.452	225.833	150.136	117.591
35.0	2199.895	2150.449	1941.877	1433.932	728.024	366.619	220.079	145.551	113.456
35.5	2190.005	2138.761	1930.189	1430.336	721.012	359.697	214.685	141.146	109.141
36.0	2180.116	2127.074	1918.502	1425.841	712.920	353.224	209.381	136.651	105.275
36.5	2172.924	2114.488	1906.815	1421.346	705.549	346.661	204.077	132.515	101.409
37.0	2162.136	2101.003	1894.229	1417.750	698.626	340.278	199.132	128.380	97.543
37.5	2151.348	2087.517	1881.643	1411.457	689.726	333.895	194.098	124.424	94.037
38.0	2139.660	2073.133	1868.157	1405.164	682.264	327.152	189.063	120.468	90.171
38.5	2126.175	2059.648	1853.773	1398.870	673.993	320.859	184.298	116.603	86.665
39.0	2116.286	2046.163	1839.389	1392.577	665.632	314.566	179.444	112.917	83.339
39.5	2105.498	2031.778	1825.004	1385.385	658.350	308.543	174.859	109.231	80.013
40.0	2093.811	2017.394	1808.822	1378.193	649.899	302.519	170.364	105.814	76.866
40.5	2082.123	2001.212	1793.539	1371.001	642.348	296.316	165.869	102.308	73.629
41.0	2070.436	1986.828	1776.458	1363.809	634.436	290.382	161.553	99.072	70.753
41.5	2058.749	1973.342	1762.073	1356.617	625.896	284.449	157.328	96.015	67.966
42.0	2047.062	1958.958	1746.790	1349.424	618.344	278.785	153.552	92.868	65.269
42.5	2036.273	1946.372	1731.507	1342.232	610.253	273.211	149.776	89.992	62.841
43.0	2024.586	1933.786	1716.223	1334.141	602.431	267.637	146.000	87.295	60.234
43.5	2014.697	1920.300	1700.041	1325.151	594.969	262.243	142.314	84.508	57.897
44.0	2003.909	1907.714	1683.859	1317.060	587.148	256.939	138.718	81.990	55.559
44.5	1994.919	1895.128	1668.576	1308.969	579.956	251.635	135.392	79.473	53.402
45.0	1983.231	1882.542	1653.292	1300.878	572.404	246.690	132.245	77.136	51.424
45.5	1973.342	1869.955	1637.110	1291.887	565.482	241.476	128.829	74.798	49.356
46.0	1964.352	1858.268	1620.928	1281.998	558.739	236.621	125.952	72.461	47.378
46.5	1953.564	1846.581	1604.745	1273.008	551.817	231.767	122.716	70.303	45.580
47.0	1943.675	1834.894	1588.563	1263.119	544.624	226.912	119.749	68.145	43.692
47.5	1934.685	1824.105	1573.280	1254.129	536.983	222.327	116.962	66.078	41.984
48.0	1924.795	1810.620	1555.299	1243.340	529.161	217.652	114.085	64.100	40.276
48.5	1913.108	1798.034	1539.117	1232.552	521.969	213.067	111.298	62.032	38.658
49.0	1902.320	1784.549	1522.036	1221.764	514.058	208.572	108.511	60.144	37.129
49.5	1890.633	1771.962	1504.954	1210.976	506.416	204.077	105.814	58.436	35.691
50.0	1879.844	1759.376	1490.570	1199.289	498.865	199.851	103.387	56.638	34.342
50.5	1868.157	1745.891	1474.388	1186.702	490.953	195.536	100.870	55.020	32.994
51.0	1855.571	1732.406	1457.307	1174.116	483.491	191.401	98.442	53.312	31.645
51.5	1843.884	1720.718	1440.225	1159.732	475.760	187.265	96.015	51.693	30.477
52.0	1833.096	1707.233	1424.942	1145.348	468.478	183.130	93.588	50.165	29.308
52.5	1822.307	1694.647	1409.659	1130.963	461.465	179.264	91.430	48.727	28.229
53.0	1811.519	1680.263	1393.476	1116.579	453.644	175.398	89.182	47.378	27.150
53.5	1800.731	1667.676	1377.294	1101.296	446.362	171.622	86.935	46.030	26.161
54.0	1788.145	1655.989	1362.011	1086.013	438.720	167.667	84.867	44.681	25.172
54.5	1777.357	1642.504	1346.727	1070.729	431.169	163.981	82.620	43.423	24.273

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55.0	1765.669	1630.817	1331.444	1055.446	424.156	160.475	80.552	42.164	23.374
55.5	1753.083	1617.332	1315.262	1039.264	416.335	156.968	78.484	40.995	22.475
56.0	1742.295	1603.846	1299.979	1022.182	409.322	153.462	76.416	39.826	21.756
56.5	1729.709	1589.462	1283.796	1006.000	401.950	149.866	74.529	38.748	20.947
57.0	1717.122	1575.977	1266.715	989.818	394.219	146.450	72.461	37.669	20.228
57.5	1706.334	1561.592	1252.331	973.635	387.386	143.124	70.573	36.680	19.509
58.0	1692.849	1547.208	1236.148	956.554	379.655	139.887	68.775	35.691	18.879
58.5	1682.061	1531.925	1220.865	939.473	372.373	136.740	66.977	34.792	18.250
59.0	1671.273	1518.440	1205.582	923.290	365.091	133.684	65.359	33.803	17.621
59.5	1660.484	1504.055	1188.500	906.209	357.539	130.627	63.740	32.994	16.991
60.0	1655.090	1490.570	1173.217	889.128	350.886	127.660	62.032	32.095	16.452
60.5	1651.494	1478.883	1157.934	872.766	343.335	124.873	60.504	31.376	15.913
61.0	1650.595	1466.297	1141.752	856.493	336.322	121.997	58.976	30.567	15.463
61.5	1653.292	1454.609	1126.468	839.592	329.310	119.120	57.537	29.847	14.924
62.0	1654.191	1445.619	1111.185	822.870	321.758	116.333	56.009	29.038	14.474
62.5	1657.787	1439.326	1095.902	805.789	314.926	113.726	54.660	28.319	14.025
63.0	1661.383	1435.730	1079.719	789.337	307.823	111.029	53.402	27.690	13.575
63.5	1664.979	1432.134	1063.537	771.626	300.721	108.601	52.053	26.971	13.216
64.0	1664.080	1429.437	1047.355	754.545	293.799	105.994	50.794	26.341	12.766
64.5	1655.989	1428.538	1030.273	737.104	286.697	103.387	49.446	25.622	12.406
65.0	1639.807	1425.841	1014.091	720.202	279.954	100.870	48.097	24.993	12.047
65.5	1616.433	1421.346	997.010	703.750	273.211	98.352	46.929	24.363	11.687
66.0	1592.159	1408.760	981.727	687.209	266.379	95.925	45.760	23.734	11.328
66.5	1566.987	1388.082	966.443	670.667	259.636	93.498	44.501	23.105	10.968
67.0	1539.117	1363.809	951.160	654.125	252.534	91.070	43.333	22.565	10.608
67.5	1514.844	1337.737	935.877	637.942	245.791	88.733	42.164	21.936	10.339
68.0	1481.580	1313.464	923.290	621.670	239.318	86.306	40.995	21.307	9.979
68.5	1440.225	1287.392	911.603	605.668	232.935	84.058	39.826	20.767	9.619
69.0	1395.274	1260.422	900.815	589.935	226.912	81.721	38.748	20.228	9.350
69.5	1333.242	1226.259	892.364	575.820	220.619	79.383	37.669	19.688	9.080
70.0	1264.018	1183.106	883.104	559.638	214.416	77.136	36.590	19.059	8.720
70.5	1191.197	1136.357	874.294	544.535	208.392	74.888	35.511	18.520	8.451
71.0	1110.286	1081.517	860.359	529.521	202.189	72.641	34.522	17.980	8.181
71.5	1039.264	1018.586	838.963	513.518	196.345	70.483	33.533	17.441	7.821
72.0	961.948	956.554	814.689	497.516	190.502	68.325	32.544	16.902	7.552
72.5	890.926	890.566	788.528	481.424	184.568	66.168	31.466	16.272	7.282
73.0	834.108	824.758	762.906	465.421	178.904	64.010	30.387	15.733	7.012
73.5	779.268	764.434	738.183	449.958	173.241	61.852	29.398	15.193	6.743
74.0	737.733	707.436	710.493	434.495	167.667	59.785	28.409	14.654	6.473
74.5	702.132	662.306	680.736	419.032	162.003	57.627	27.420	14.115	6.203
75.0	670.487	623.468	646.753	403.389	156.249	55.649	26.431	13.665	5.934
75.5	647.742	590.744	608.814	387.836	150.675	53.581	25.442	13.036	5.664
76.0	625.626	564.673	569.527	371.833	145.191	51.604	24.453	12.586	5.304
76.5	607.646	543.456	527.903	356.011	139.887	49.626	23.464	12.047	4.945
77.0	591.194	523.677	485.199	340.008	134.673	47.648	22.565	11.507	4.675
77.5	572.764	505.248	444.204	323.826	129.458	45.670	21.576	10.968	4.495
78.0	563.054	487.807	407.614	308.183	124.514	43.782	20.587	10.429	4.315
78.5	561.256	472.973	376.778	293.259	119.479	41.894	19.688	9.889	4.046
79.0	561.886	466.770	350.077	278.515	114.715	40.006	18.700	9.440	3.866
79.5	565.572	467.848	327.961	262.873	109.770	38.118	17.711	8.990	3.686
80.0	569.437	470.725	308.722	246.331	104.825	36.230	16.812	8.541	3.416
80.5	572.944	472.074	291.371	229.159	99.701	34.342	15.823	8.001	3.236
81.0	575.371	472.523	276.807	212.168	94.487	32.455	14.924	7.552	3.057
81.5	572.764	472.613	267.368	196.345	89.182	30.567	13.935	7.102	2.877
82.0	557.750	466.770	263.322	179.983	83.429	28.679	13.036	6.653	2.697
82.5	529.341	449.329	261.434	163.172	77.675	26.701	12.137	6.203	2.517

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RWG-2-L45-940-S-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	496.797	421.639	259.097	146.180	71.921	24.813	11.238	5.754	2.337
83.5	468.028	394.579	254.781	130.447	66.258	22.925	10.339	5.304	2.248
84.0	438.001	368.687	244.892	116.782	60.594	21.037	9.440	4.855	2.068
84.5	411.300	343.335	229.789	105.185	55.020	19.149	8.541	4.405	1.978
85.0	383.521	318.342	211.629	95.386	49.536	17.261	7.642	4.046	1.798
85.5	358.618	295.057	192.749	86.306	44.052	15.463	6.743	3.596	1.708
86.0	329.490	268.357	174.589	77.405	38.658	13.575	5.844	3.147	1.528
86.5	289.214	235.003	155.170	68.505	33.354	11.687	5.034	2.787	1.438
87.0	250.196	198.233	134.403	58.526	27.870	9.799	4.135	2.337	1.259
87.5	206.055	160.025	111.388	47.648	22.475	7.911	3.326	1.978	1.169
88.0	159.935	119.389	84.867	36.410	17.081	6.113	2.607	1.618	1.079
88.5	114.715	75.338	56.368	24.633	11.687	4.315	1.798	1.259	0.989
89.0	57.267	28.679	27.690	13.755	6.473	2.607	1.259	0.989	0.809
89.5	15.643	4.495	8.361	6.563	3.506	1.438	0.899	0.809	0.809
90.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RWG-2-L45-940-S-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RWG-2-L45-940-S-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RWG-2-L45-940-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	400.28	N.A.	10.50
0-30	909.07	N.A.	23.90
0-40	1544.62	N.A.	40.60
0-60	2837.51	N.A.	74.60
0-80	3691.17	N.A.	97.00
0-90	3804.97	N.A.	100.00
10-90	3708.7	N.A.	97.50
20-40	1144.34	N.A.	30.10
20-50	1809.14	N.A.	47.50
40-70	1835.06	N.A.	48.20
60-80	853.66	N.A.	22.40
70-80	311.50	N.A.	8.20
80-90	113.80	N.A.	3.00
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3804.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.27
10-20	304.01
20-30	508.79
30-40	635.55
40-50	664.80
50-60	628.09
60-70	542.17
70-80	311.50
80-90	113.80
90-100	0.00
100-110	0.00
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

IES INDOOR REPORT
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	92	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	56	50	62	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	37	50	42	37	48	42	37	35
7	63	49	40	33	61	48	39	33	46	39	33	45	38	33	44	37	32	30
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	41	32	26	53	40	32	26	39	31	26	38	31	26	37	30	26	24
10	51	37	29	24	50	37	29	24	36	29	24	35	28	23	34	28	23	22

IES INDOOR REPORT
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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	25.6	27.3	26.0	27.6	28.0	UGR Viewed Endwise			
	3H	28.6	30.1	29.0	30.5	30.8	19.2	20.9	19.5	21.2
	4H	29.1	30.6	29.5	30.9	31.3	20.4	22.0	20.8	22.3
	6H	29.7	31.0	30.1	31.4	31.8	20.9	22.4	21.3	22.7
	8H	30.1	31.4	30.5	31.8	32.2	21.2	22.6	21.6	23.0
	12H	30.4	31.7	30.9	32.1	32.5	21.4	22.7	21.8	23.0

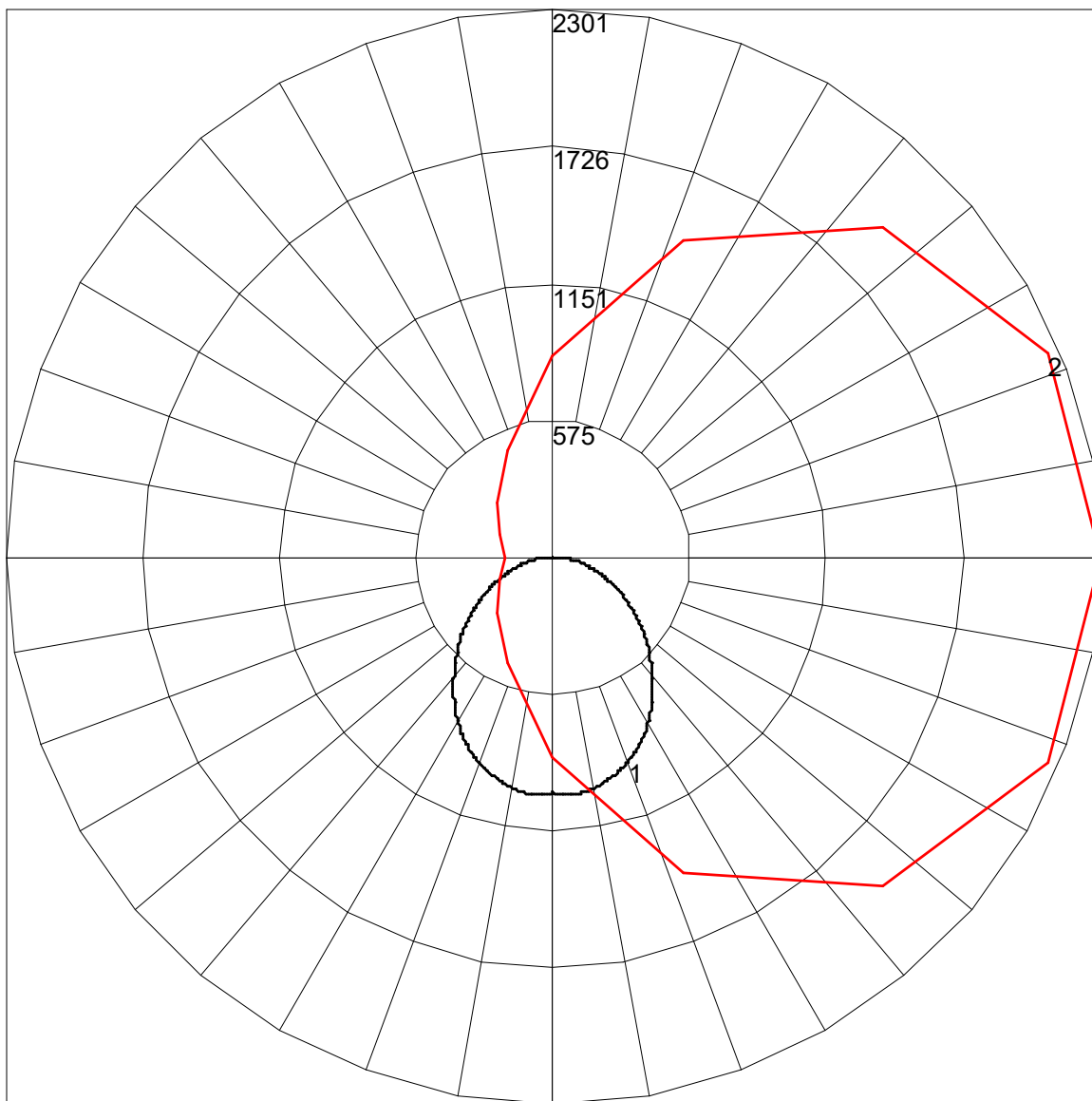
4H	2H	26.1	27.5	26.5	27.9	28.2	21.9	23.1	23.1	23.5
	3H	29.2	30.5	29.6	30.9	31.3	20.7	22.1	21.1	22.5
	4H	29.9	31.0	30.3	31.4	31.9	22.4	23.6	22.8	24.0
	6H	30.6	31.6	31.0	32.0	32.5	23.0	24.1	23.5	24.5
	8H	31.1	32.0	31.6	32.5	33.0	23.5	24.4	23.9	24.9
	12H	31.6	32.4	32.1	32.9	33.4	23.6	24.5	24.1	24.9

8H	4H	30.1	31.0	30.5	31.4	31.9	23.7	24.5	24.2	25.0
	6H	30.9	31.7	31.4	32.2	32.7	23.9	24.8	24.4	25.3
	8H	31.6	32.3	32.1	32.8	33.3	24.5	25.3	25.0	25.8
	12H	32.3	32.9	32.8	33.4	33.9	24.7	25.4	25.2	25.9

12H	4H	30.1	30.9	30.6	31.4	31.9	24.8	25.4	25.3	25.9
	6H	31.0	31.7	31.5	32.1	32.6	24.1	24.9	24.5	25.4
	8H	31.7	32.3	32.2	32.8	33.4	24.7	25.4	25.2	25.9

Maximum UGR = 33.9

POLAR GRAPH



Maximum Candela = 2301.483 Located At Horizontal Angle = 0, Vertical Angle = 26.5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (26.5) (Through Max. Cd.)