

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RWG-4-L60-930-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] 11 DEC 2023
[TEST DATE] 5/11/2023
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] RWG-4-L60-930-S-DIM-UNV
[LUMINAIRE] 48 INCH RECESSED LINEAR WALL WASH
[MORE] WITH SPECULAR REFL AND LENS OVER LEDS
[LAMP] LED
[BALLAST] 0-10V DIMMABLE LED DRIVER
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] INDOOR
[SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5098
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	60.2
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)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12425	10358	3586
55	13638	10284	3276
65	17190	10630	2935
75	11477	11070	2675
85	19495	10757	2518

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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	1318.843	1318.843	1318.843	1318.843	1318.843	1318.843	1318.843	1318.843	1318.843
0.5	1303.186	1340.523	1350.158	1353.771	1342.932	1324.865	1298.368	1274.279	1230.920
1.0	1339.318	1374.247	1376.655	1368.224	1342.932	1310.412	1273.075	1241.760	1196.233
1.5	1376.655	1410.379	1405.562	1383.882	1342.932	1297.164	1247.782	1209.241	1162.509
2.0	1416.401	1446.512	1433.263	1398.335	1344.136	1283.915	1223.694	1177.323	1129.387
2.5	1454.943	1481.440	1460.965	1412.788	1345.340	1270.666	1199.003	1145.406	1096.868
3.0	1494.689	1519.982	1489.871	1428.446	1345.340	1257.418	1174.794	1114.573	1064.589
3.5	1535.639	1557.319	1517.573	1442.899	1345.340	1244.169	1150.344	1084.462	1034.118
4.0	1576.590	1595.860	1547.683	1458.556	1345.340	1229.716	1126.497	1053.991	1003.043
4.5	1618.744	1634.402	1576.590	1473.009	1344.136	1215.263	1103.613	1024.964	972.933
5.0	1662.104	1674.148	1606.700	1487.462	1344.136	1201.653	1080.729	996.660	944.508
5.5	1704.258	1715.098	1636.811	1501.915	1341.727	1188.284	1057.845	968.597	915.241
6.0	1747.618	1756.049	1666.921	1516.368	1340.523	1174.312	1035.081	941.136	885.733
6.5	1790.977	1798.203	1695.828	1530.822	1339.318	1160.221	1012.317	913.314	857.188
7.0	1835.541	1840.358	1727.143	1544.070	1338.114	1146.490	990.758	885.853	832.377
7.5	1881.309	1882.513	1757.253	1558.523	1336.909	1132.760	968.236	860.560	811.420
8.0	1925.872	1923.463	1786.159	1572.976	1335.705	1118.909	946.556	837.194	788.897
8.5	1968.027	1965.618	1817.474	1586.225	1332.092	1105.058	924.997	817.081	768.542
9.0	2011.386	2007.773	1846.380	1600.678	1329.683	1090.605	902.595	796.605	749.031
9.5	2059.563	2049.928	1877.695	1613.927	1326.070	1076.754	881.999	777.696	732.289
10.0	2102.922	2090.878	1907.806	1627.175	1323.661	1062.421	860.560	760.714	713.621
10.5	2148.691	2133.033	1937.917	1640.424	1320.048	1048.450	842.133	744.092	694.952
11.0	2192.050	2172.779	1966.823	1652.468	1317.639	1034.961	824.548	726.749	676.886
11.5	2235.409	2212.525	1995.729	1664.513	1314.025	1020.387	807.566	709.405	659.181
12.0	2277.564	2252.271	2024.635	1676.557	1310.412	1007.138	791.667	692.423	641.957
12.5	2322.127	2292.017	2054.746	1689.805	1306.799	992.324	775.528	675.681	625.216
13.0	2364.282	2331.763	2083.652	1701.850	1303.186	978.112	760.473	659.783	608.595
13.5	2405.233	2369.100	2113.762	1713.894	1298.368	964.141	749.392	644.125	592.937
14.0	2444.979	2407.641	2140.260	1725.938	1293.550	949.567	735.300	628.107	576.557
14.5	2485.929	2446.183	2169.166	1735.573	1288.733	936.078	721.329	612.810	561.502
15.0	2526.879	2482.316	2195.663	1747.618	1283.915	922.468	707.237	597.755	546.447
15.5	2569.034	2519.653	2223.365	1758.458	1280.302	908.496	693.748	583.061	531.753
16.0	2605.167	2554.581	2248.658	1769.297	1275.484	894.886	680.258	568.849	518.263
16.5	2641.300	2589.509	2273.951	1780.137	1269.462	879.951	667.009	554.998	503.449
17.0	2675.023	2623.233	2300.448	1790.977	1264.644	865.860	654.122	541.388	489.839
17.5	2707.543	2655.753	2325.741	1800.612	1258.622	852.009	641.355	528.139	476.711
18.0	2738.858	2685.863	2352.238	1812.657	1252.600	838.278	629.191	514.529	462.980
18.5	2767.764	2714.769	2376.326	1822.292	1247.782	824.428	616.665	501.883	450.816
19.0	2796.670	2742.471	2398.006	1831.927	1241.760	811.661	604.018	489.116	437.326
19.5	2825.576	2767.764	2420.890	1840.358	1234.534	800.098	592.215	476.349	424.920
20.0	2852.074	2791.852	2442.570	1848.789	1229.716	788.295	579.689	464.064	412.997
20.5	2880.980	2817.145	2464.249	1859.629	1223.694	776.853	568.367	451.659	400.350
21.0	2903.864	2840.029	2484.725	1866.856	1216.467	765.893	556.684	440.217	389.029
21.5	2927.952	2861.709	2503.995	1876.491	1210.445	756.498	545.001	428.654	377.105
22.0	2948.427	2883.389	2522.062	1883.717	1203.098	746.260	534.041	417.092	365.904
22.5	2968.903	2903.864	2537.719	1889.740	1195.390	736.264	522.599	405.650	354.823
23.0	2988.173	2924.339	2553.377	1898.171	1189.247	725.424	511.759	394.689	343.020
23.5	3011.057	2942.405	2564.216	1904.193	1181.780	715.307	500.920	383.850	333.625
24.0	3029.124	2959.267	2576.261	1910.215	1175.276	704.106	489.959	373.251	322.544
24.5	3045.986	2973.720	2587.100	1916.237	1167.206	693.386	479.722	362.772	312.427
25.0	3060.439	2986.969	2596.736	1922.259	1159.739	682.667	468.761	352.775	303.033
25.5	3070.074	3002.626	2607.576	1927.077	1151.428	672.188	458.765	342.899	292.916
26.0	3079.709	3013.466	2618.415	1930.690	1142.756	662.312	448.888	333.264	284.123
26.5	3083.323	3021.897	2626.846	1934.303	1134.566	651.713	438.892	323.749	274.488

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27.0	3083.323	3027.919	2635.277	1937.917	1126.135	642.078	429.497	314.354	265.455
27.5	3080.914	3029.124	2640.095	1940.325	1116.621	631.961	419.380	305.562	257.265
28.0	3078.505	3027.919	2646.117	1941.530	1109.274	621.964	409.986	296.408	248.232
28.5	3074.892	3024.306	2650.935	1943.939	1099.397	612.570	400.952	288.098	240.523
29.0	3068.870	3018.284	2655.753	1946.347	1091.087	602.452	391.558	279.787	232.333
29.5	3062.848	3011.057	2659.366	1946.347	1081.692	593.178	383.006	271.718	224.384
30.0	3052.008	3002.626	2660.570	1945.143	1071.575	583.422	373.973	263.889	217.278
30.5	3042.372	2994.195	2661.775	1945.143	1062.421	573.908	365.663	255.819	209.208
31.0	3035.146	2985.764	2660.570	1943.939	1052.545	564.754	357.111	248.593	202.584
31.5	3025.510	2974.925	2659.366	1942.734	1044.114	555.480	348.680	241.246	195.478
32.0	3017.079	2962.880	2655.753	1941.530	1034.840	546.206	340.852	234.019	188.733
32.5	3005.035	2950.836	2650.935	1937.917	1024.723	536.691	332.300	227.154	182.350
33.0	2994.195	2935.179	2642.504	1936.712	1015.690	527.417	324.592	220.289	175.605
33.5	2984.560	2923.135	2636.482	1933.099	1005.211	518.384	317.004	213.785	169.824
34.0	2972.516	2909.886	2628.051	1930.690	995.094	509.230	309.296	207.522	163.561
34.5	2960.472	2895.433	2614.802	1925.872	986.182	500.317	302.551	201.139	157.539
35.0	2947.223	2880.980	2601.554	1921.055	975.342	491.164	294.843	194.996	151.998
35.5	2933.974	2865.322	2585.896	1916.237	965.947	481.890	287.616	189.094	146.217
36.0	2920.726	2849.665	2570.239	1910.215	955.107	473.218	280.510	183.072	141.038
36.5	2911.090	2832.803	2554.581	1904.193	945.231	464.425	273.404	177.532	135.859
37.0	2896.637	2814.736	2537.719	1899.375	935.957	455.874	266.780	171.992	130.680
37.5	2882.184	2796.670	2520.857	1890.944	924.033	447.323	260.035	166.692	125.983
38.0	2866.527	2777.399	2502.791	1882.513	914.037	438.290	253.290	161.393	120.804
38.5	2848.460	2759.333	2483.520	1874.082	902.956	429.859	246.907	156.214	116.106
39.0	2835.212	2741.267	2464.249	1865.651	891.755	421.428	240.403	151.276	111.650
39.5	2820.759	2721.996	2444.979	1856.016	881.999	413.358	234.260	146.337	107.194
40.0	2805.101	2702.725	2423.299	1846.380	870.677	405.288	228.238	141.761	102.978
40.5	2789.444	2681.045	2402.824	1836.745	860.560	396.978	222.216	137.063	98.642
41.0	2773.786	2661.775	2379.940	1827.110	849.961	389.029	216.435	132.727	94.788
41.5	2758.129	2643.708	2360.669	1817.474	838.519	381.079	210.774	128.632	91.054
42.0	2742.471	2624.438	2340.194	1807.839	828.402	373.492	205.715	124.417	87.441
42.5	2728.018	2607.576	2319.719	1798.203	817.562	366.024	200.657	120.563	84.189
43.0	2712.360	2590.714	2299.243	1787.364	807.084	358.557	195.598	116.949	80.696
43.5	2699.112	2572.647	2277.564	1775.319	797.087	351.330	190.660	113.216	77.565
44.0	2684.659	2555.786	2255.884	1764.480	786.609	344.224	185.842	109.843	74.433
44.5	2672.615	2538.924	2235.409	1753.640	776.973	337.118	181.386	106.471	71.543
45.0	2656.957	2522.062	2214.934	1742.800	766.856	330.494	177.171	103.339	68.893
45.5	2643.708	2505.200	2193.254	1730.756	757.582	323.508	172.594	100.208	66.123
46.0	2631.664	2489.542	2171.575	1717.507	748.549	317.004	168.740	97.076	63.473
46.5	2617.211	2473.885	2149.895	1705.463	739.275	310.500	164.404	94.186	61.064
47.0	2603.962	2458.227	2128.215	1692.214	729.639	303.996	160.429	91.295	58.535
47.5	2591.918	2443.774	2107.740	1680.170	719.402	297.854	156.695	88.525	56.247
48.0	2578.670	2425.708	2083.652	1665.717	708.923	291.591	152.841	85.875	53.958
48.5	2563.012	2408.846	2061.972	1651.264	699.288	285.448	149.108	83.105	51.790
49.0	2548.559	2390.780	2039.088	1636.811	688.689	279.426	145.374	80.576	49.743
49.5	2532.901	2373.918	2016.204	1622.358	678.451	273.404	141.761	78.287	47.816
50.0	2518.448	2357.056	1996.933	1606.700	668.334	267.743	138.509	75.879	46.009
50.5	2502.791	2338.989	1975.254	1589.838	657.735	261.962	135.136	73.711	44.202
51.0	2485.929	2320.923	1952.370	1572.976	647.739	256.422	131.884	71.422	42.396
51.5	2470.271	2305.266	1929.486	1553.706	637.381	250.881	128.632	69.254	40.830
52.0	2455.818	2287.199	1909.010	1534.435	627.625	245.341	125.380	67.207	39.264
52.5	2441.365	2270.337	1888.535	1515.164	618.230	240.162	122.490	65.280	37.819
53.0	2426.912	2251.066	1866.856	1495.893	607.752	234.983	119.479	63.473	36.374
53.5	2412.459	2234.205	1845.176	1475.418	597.996	229.924	116.468	61.666	35.049
54.0	2395.597	2218.547	1824.701	1454.943	587.758	224.625	113.698	59.860	33.724
54.5	2381.144	2200.481	1804.226	1434.468	577.641	219.687	110.686	58.174	32.519

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55.0	2365.487	2184.823	1783.750	1413.993	568.247	214.989	107.916	56.487	31.315
55.5	2348.625	2166.757	1762.071	1392.313	557.768	210.292	105.146	54.922	30.111
56.0	2334.172	2148.691	1741.596	1369.429	548.374	205.595	102.376	53.356	29.147
56.5	2317.310	2129.420	1719.916	1347.749	538.498	200.777	99.847	51.911	28.063
57.0	2300.448	2111.353	1697.032	1326.070	528.139	196.200	97.076	50.465	27.100
57.5	2285.995	2092.083	1677.761	1304.390	518.986	191.744	94.547	49.140	26.136
58.0	2267.928	2072.812	1656.082	1281.506	508.628	187.408	92.138	47.816	25.293
58.5	2253.475	2052.337	1635.606	1258.622	498.872	183.193	89.730	46.611	24.450
59.0	2239.022	2034.270	1615.131	1236.942	489.116	179.098	87.562	45.286	23.607
59.5	2224.569	2015.000	1592.247	1214.058	478.999	175.003	85.394	44.202	22.764
60.0	2217.343	1996.933	1571.772	1191.174	470.086	171.028	83.105	42.998	22.041
60.5	2212.525	1981.276	1551.297	1169.254	459.969	167.294	81.058	42.034	21.318
61.0	2211.321	1964.414	1529.617	1147.454	450.575	163.440	79.010	40.950	20.716
61.5	2214.934	1948.756	1509.142	1124.811	441.180	159.586	77.083	39.987	19.993
62.0	2216.138	1936.712	1488.667	1102.408	431.063	155.852	75.036	38.903	19.391
62.5	2220.956	1928.281	1468.192	1079.524	421.909	152.360	73.229	37.939	18.789
63.0	2225.774	1923.463	1446.512	1057.483	412.394	148.746	71.543	37.096	18.187
63.5	2230.591	1918.646	1424.832	1033.756	402.879	145.494	69.736	36.133	17.705
64.0	2229.387	1915.032	1403.153	1010.872	393.605	142.001	68.050	35.290	17.103
64.5	2218.547	1913.828	1380.269	987.506	384.090	138.509	66.243	34.326	16.621
65.0	2196.867	1910.215	1358.589	964.863	375.057	135.136	64.437	33.483	16.139
65.5	2165.552	1904.193	1335.705	942.822	366.024	131.764	62.871	32.640	15.657
66.0	2133.033	1887.331	1315.230	920.661	356.871	128.512	61.305	31.797	15.176
66.5	2099.309	1859.629	1294.755	898.500	347.837	125.260	59.619	30.954	14.694
67.0	2061.972	1827.110	1274.279	876.338	338.322	122.008	58.053	30.231	14.212
67.5	2029.453	1792.181	1253.804	854.659	329.289	118.877	56.487	29.388	13.851
68.0	1984.889	1759.662	1236.942	832.858	320.617	115.625	54.922	28.545	13.369
68.5	1929.486	1724.734	1221.285	811.420	312.066	112.614	53.356	27.822	12.887
69.0	1869.264	1688.601	1206.832	790.342	303.996	109.482	51.911	27.100	12.526
69.5	1786.159	1642.833	1195.510	771.433	295.565	106.351	50.465	26.377	12.165
70.0	1693.419	1585.021	1183.105	749.753	287.255	103.339	49.020	25.534	11.683
70.5	1595.860	1522.391	1171.301	729.519	279.185	100.328	47.575	24.811	11.322
71.0	1487.462	1448.921	1152.633	709.405	270.875	97.317	46.250	24.088	10.960
71.5	1392.313	1364.611	1123.967	687.966	263.046	94.427	44.925	23.366	10.478
72.0	1288.733	1281.506	1091.448	666.528	255.217	91.536	43.600	22.643	10.117
72.5	1193.583	1193.101	1056.399	644.968	247.268	88.646	42.155	21.800	9.756
73.0	1117.464	1104.938	1022.073	623.530	239.680	85.755	40.709	21.077	9.394
73.5	1043.994	1024.121	988.952	602.814	232.092	82.864	39.385	20.355	9.033
74.0	988.349	947.760	951.855	582.098	224.625	80.094	38.060	19.632	8.672
74.5	940.654	887.298	911.989	561.382	217.037	77.204	36.735	18.909	8.311
75.0	898.259	835.267	866.462	540.425	209.329	74.554	35.410	18.307	7.949
75.5	867.787	791.426	815.635	519.588	201.861	71.784	34.085	17.464	7.588
76.0	838.158	756.498	763.002	498.149	194.514	69.134	32.760	16.862	7.106
76.5	814.069	728.074	707.237	476.951	187.408	66.484	31.435	16.139	6.624
77.0	792.029	701.576	650.027	455.513	180.423	63.834	30.231	15.417	6.263
77.5	767.338	676.886	595.105	433.833	173.437	61.185	28.906	14.694	6.022
78.0	754.330	653.520	546.085	412.876	166.813	58.655	27.581	13.971	5.781
78.5	751.921	633.647	504.774	392.883	160.068	56.126	26.377	13.249	5.420
79.0	752.764	625.336	469.002	373.130	153.684	53.597	25.052	12.646	5.179
79.5	757.702	626.782	439.373	352.173	147.060	51.068	23.727	12.044	4.938
80.0	762.881	630.636	413.599	330.012	140.436	48.538	22.523	11.442	4.577
80.5	767.579	632.442	390.353	307.007	133.571	46.009	21.198	10.719	4.336
81.0	770.831	633.045	370.842	284.244	126.585	43.480	19.993	10.117	4.095
81.5	767.338	633.165	358.195	263.046	119.479	40.950	18.669	9.515	3.854
82.0	747.224	625.336	352.775	241.125	111.770	38.421	17.464	8.913	3.613
82.5	709.164	601.971	350.246	218.603	104.062	35.771	16.260	8.311	3.372

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	665.564	564.874	347.115	195.839	96.354	33.242	15.055	7.708	3.131
83.5	627.023	528.621	341.333	174.762	88.766	30.713	13.851	7.106	3.011
84.0	586.795	493.934	328.085	156.455	81.178	28.183	12.646	6.504	2.770
84.5	551.023	459.969	307.851	140.917	73.711	25.654	11.442	5.902	2.650
85.0	513.807	426.486	283.521	127.789	66.364	23.125	10.238	5.420	2.409
85.5	480.444	395.292	258.228	115.625	59.017	20.716	9.033	4.818	2.288
86.0	441.421	359.520	233.899	103.701	51.790	18.187	7.829	4.215	2.048
86.5	387.463	314.836	207.883	91.777	44.684	15.657	6.745	3.734	1.927
87.0	335.191	265.575	180.061	78.408	37.337	13.128	5.540	3.131	1.686
87.5	276.054	214.387	149.228	63.834	30.111	10.599	4.456	2.650	1.566
88.0	214.267	159.947	113.698	48.779	22.884	8.190	3.493	2.168	1.445
88.5	153.684	100.931	75.517	33.001	15.657	5.781	2.409	1.686	1.325
89.0	76.722	38.421	37.096	18.428	8.672	3.493	1.686	1.325	1.084
89.5	20.957	6.022	11.201	8.792	4.697	1.927	1.204	1.084	1.084
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-4-L60-930-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
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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-4-L60-930-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	536.25	N.A.	10.50
0-30	1217.89	N.A.	23.90
0-40	2069.34	N.A.	40.60
0-60	3801.44	N.A.	74.60
0-80	4945.1	N.A.	97.00
0-90	5097.56	N.A.	100.00
10-90	4968.58	N.A.	97.50
20-40	1533.09	N.A.	30.10
20-50	2423.72	N.A.	47.50
40-70	2458.45	N.A.	48.20
60-80	1143.66	N.A.	22.40
70-80	417.32	N.A.	8.20
80-90	152.46	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	5097.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	128.97
10-20	407.28
20-30	681.63
30-40	851.45
40-50	890.64
50-60	841.46
60-70	726.35
70-80	417.32
80-90	152.46
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	67	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
PHOTOMETRIC FILENAME : RWG-4-L60-930-S-DIM-UNV_.IES

UGR TABLE - CORRECTED

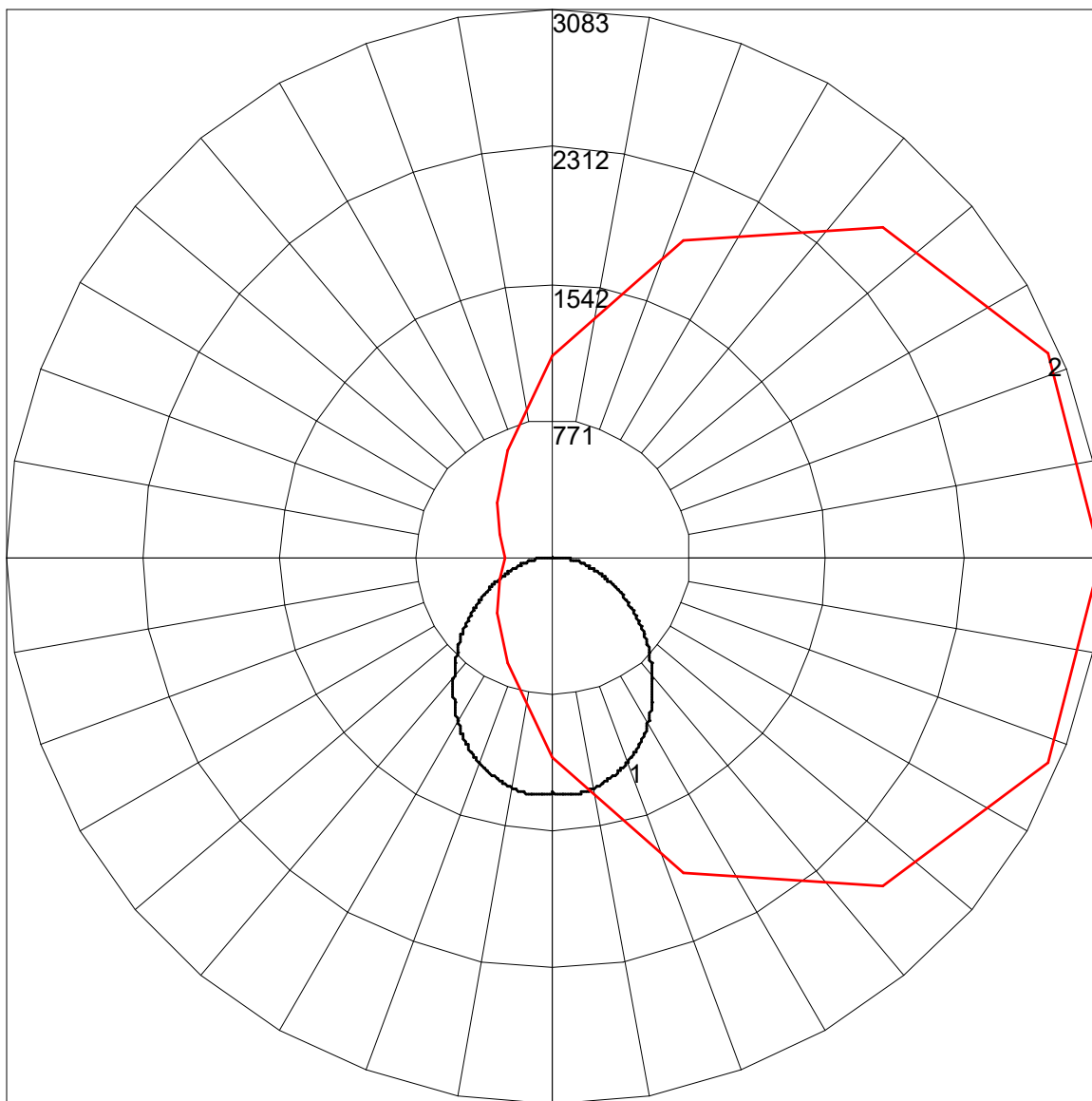
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	24.3	26.0	24.7	26.3	26.6	17.8	19.5	18.2	19.9	20.2
	3H	27.3	28.8	27.7	29.1	29.5	19.1	20.7	19.5	21.0	21.4
	4H	27.8	29.3	28.2	29.6	30.0	19.6	21.0	20.0	21.4	21.8
	6H	28.3	29.7	28.8	30.1	30.5	19.9	21.3	20.3	21.7	22.0
	8H	28.8	30.1	29.2	30.5	30.8	20.0	21.3	20.5	21.7	22.1
	12H	29.1	30.4	29.6	30.8	31.2	20.1	21.4	20.6	21.8	22.2
4H	2H	24.7	26.2	25.1	26.6	26.9	19.4	20.8	19.8	21.2	21.5
	3H	27.9	29.2	28.3	29.6	30.0	21.1	22.3	21.5	22.7	23.1
	4H	28.6	29.7	29.0	30.1	30.5	21.7	22.8	22.1	23.2	23.7
	6H	29.3	30.3	29.7	30.7	31.2	22.1	23.1	22.6	23.6	24.0
	8H	29.8	30.7	30.3	31.2	31.6	22.3	23.2	22.7	23.6	24.1
	12H	30.3	31.1	30.8	31.6	32.1	22.4	23.2	22.8	23.7	24.1
8H	4H	28.8	29.7	29.2	30.1	30.6	22.6	23.5	23.1	24.0	24.4
	6H	29.6	30.4	30.1	30.9	31.3	23.2	24.0	23.7	24.4	24.9
	8H	30.3	31.0	30.8	31.5	32.0	23.4	24.1	23.9	24.6	25.1
	12H	31.0	31.6	31.5	32.1	32.6	23.5	24.1	24.0	24.6	25.2
12H	4H	28.8	29.6	29.3	30.1	30.5	22.8	23.6	23.2	24.1	24.5
	6H	29.7	30.3	30.2	30.8	31.3	23.4	24.1	23.9	24.6	25.1
	8H	30.4	31.0	30.9	31.5	32.0	23.7	24.3	24.2	24.8	25.3

Maximum UGR = 32.6

POLAR GRAPH



Maximum Candela = 3083.323 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.)