

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RWG-4-L90-940-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] 11 DEC 2023
[TEST DATE] 5/11/2023
[MANUFAC] H.E. WILLIAMS, INC.
[LUMCAT] RWG-4-L90-940-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_SOURCE TYPE] LED
[_SEARCH_APPLICATION] INDOOR
[_SEARCH_MOUNTING] RECESSED

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7780
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	94
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	18965	15810	5474
55	20815	15696	5000
65	26236	16225	4479
75	17517	16896	4082
85	29754	16418	3843

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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	2012.906	2012.906	2012.906	2012.906	2012.906	2012.906	2012.906	2012.906	2012.906
0.5	1989.008	2045.994	2060.701	2066.215	2049.671	2022.097	1981.655	1944.890	1878.712
1.0	2044.156	2097.466	2101.143	2088.275	2049.671	2000.038	1943.051	1895.256	1825.770
1.5	2101.143	2152.614	2145.261	2112.172	2049.671	1979.817	1904.448	1845.623	1774.298
2.0	2161.805	2207.762	2187.541	2134.231	2051.509	1959.596	1867.682	1796.909	1723.746
2.5	2220.630	2261.072	2229.821	2156.291	2053.348	1939.375	1829.998	1748.195	1674.112
3.0	2281.293	2319.897	2273.940	2180.188	2053.348	1919.154	1793.049	1701.135	1624.847
3.5	2343.794	2376.883	2316.220	2202.247	2053.348	1898.933	1755.732	1655.178	1578.339
4.0	2406.295	2435.708	2362.177	2226.145	2053.348	1876.874	1719.334	1608.670	1530.911
4.5	2470.635	2494.532	2406.295	2248.204	2051.509	1854.814	1684.407	1564.368	1484.954
5.0	2536.813	2555.195	2452.252	2270.263	2051.509	1834.042	1649.480	1521.168	1441.571
5.5	2601.152	2617.696	2498.209	2292.323	2047.833	1813.637	1614.552	1478.337	1396.901
6.0	2667.330	2680.198	2544.166	2314.382	2045.994	1792.313	1579.809	1436.424	1351.864
6.5	2733.507	2744.537	2588.284	2336.441	2044.156	1770.805	1545.066	1393.960	1308.297
7.0	2801.523	2808.876	2636.079	2356.662	2042.318	1749.849	1512.161	1352.048	1270.428
7.5	2871.378	2873.216	2682.036	2378.721	2040.480	1728.893	1477.785	1313.444	1238.442
8.0	2939.394	2935.717	2726.154	2400.781	2038.641	1707.753	1444.696	1277.781	1204.067
8.5	3003.733	3000.057	2773.949	2421.002	2033.127	1686.613	1411.791	1247.082	1173.000
9.0	3069.911	3064.396	2818.068	2443.061	2029.450	1664.553	1377.599	1215.832	1143.220
9.5	3143.442	3128.735	2865.863	2463.282	2023.935	1643.413	1346.165	1186.971	1117.668
10.0	3209.619	3191.237	2911.820	2483.503	2020.259	1621.538	1313.444	1161.051	1089.175
10.5	3279.474	3255.576	2957.776	2503.724	2014.744	1600.214	1285.318	1135.683	1060.682
11.0	3345.651	3316.239	3001.895	2522.106	2011.067	1579.625	1258.480	1109.212	1033.108
11.5	3411.829	3376.902	3046.013	2540.489	2005.553	1557.382	1232.560	1082.741	1006.085
12.0	3476.168	3437.565	3090.132	2558.872	2000.038	1537.161	1208.295	1056.821	979.798
12.5	3544.184	3498.228	3136.089	2579.093	1994.523	1514.551	1183.662	1031.269	954.246
13.0	3608.524	3558.891	3180.207	2597.475	1989.008	1492.859	1160.684	1007.004	928.878
13.5	3671.025	3615.877	3226.164	2615.858	1981.655	1471.535	1143.772	983.107	904.980
14.0	3731.688	3674.702	3266.606	2634.241	1974.302	1449.292	1122.264	958.658	879.980
14.5	3794.189	3733.526	3310.724	2648.947	1966.949	1428.703	1100.940	935.312	857.001
15.0	3856.690	3788.674	3351.166	2667.330	1959.596	1407.931	1079.432	912.333	834.023
15.5	3921.030	3845.661	3393.446	2683.874	1954.081	1386.607	1058.843	889.906	811.596
16.0	3976.178	3898.971	3432.050	2700.419	1946.728	1365.835	1038.255	868.215	791.008
16.5	4031.326	3952.280	3470.654	2716.963	1937.537	1343.040	1018.034	847.075	768.397
17.0	4082.798	4003.752	3511.096	2733.507	1930.183	1321.532	998.364	826.302	747.624
17.5	4132.431	4053.385	3549.699	2748.214	1920.992	1300.392	978.879	806.081	727.587
18.0	4180.226	4099.342	3590.141	2766.596	1911.801	1279.436	960.312	785.309	706.631
18.5	4224.344	4143.460	3626.907	2781.302	1904.448	1258.296	941.194	766.007	688.064
19.0	4268.463	4185.741	3659.995	2796.009	1895.256	1238.810	921.892	746.521	667.476
19.5	4312.581	4224.344	3694.923	2808.876	1884.227	1221.163	903.877	727.036	648.542
20.0	4353.023	4261.110	3728.011	2821.744	1876.874	1203.148	884.759	708.285	630.343
20.5	4397.142	4299.713	3761.100	2838.289	1867.682	1185.684	867.480	689.351	611.041
21.0	4432.069	4334.641	3792.351	2849.318	1856.653	1168.956	849.648	671.888	593.761
21.5	4468.834	4367.729	3821.763	2864.025	1847.461	1154.617	831.817	654.240	575.562
22.0	4500.085	4400.818	3849.337	2875.054	1836.248	1138.992	815.089	636.593	558.466
22.5	4531.335	4432.069	3873.235	2884.246	1824.483	1123.734	797.625	619.129	541.554
23.0	4560.748	4463.319	3897.132	2897.113	1815.108	1107.190	781.081	602.401	523.539
23.5	4595.675	4490.893	3913.677	2906.305	1803.710	1091.749	764.536	585.857	509.201
24.0	4623.249	4516.629	3932.059	2915.496	1793.784	1074.653	747.808	569.680	492.289
24.5	4648.985	4538.689	3948.604	2924.687	1781.467	1058.292	732.183	553.687	476.847
25.0	4671.044	4558.909	3963.310	2933.879	1770.070	1041.931	715.455	538.429	462.509
25.5	4685.750	4582.807	3979.854	2941.232	1757.386	1025.938	700.197	523.355	447.067
26.0	4700.456	4599.351	3996.399	2946.747	1744.151	1010.865	685.123	508.649	433.648
26.5	4705.971	4612.219	4009.267	2952.262	1731.650	994.688	669.866	494.127	418.942

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27.0	4705.971	4621.411	4022.135	2957.776	1718.782	979.982	655.527	479.788	405.155
27.5	4702.295	4623.249	4029.488	2961.453	1704.260	964.540	640.086	466.369	392.654
28.0	4698.618	4621.411	4038.679	2963.291	1693.047	949.283	625.747	452.398	378.867
28.5	4693.103	4615.896	4046.032	2966.968	1677.973	934.944	611.960	439.714	367.103
29.0	4683.912	4606.704	4053.385	2970.644	1665.289	919.503	597.622	427.030	354.602
29.5	4674.720	4595.675	4058.900	2970.644	1650.950	905.348	584.570	414.714	342.470
30.0	4658.176	4582.807	4060.738	2968.806	1635.509	890.458	570.783	402.765	331.624
30.5	4643.470	4569.939	4062.577	2968.806	1621.538	875.936	558.099	390.449	319.307
31.0	4632.440	4557.071	4060.738	2966.968	1606.464	861.965	545.047	379.419	309.197
31.5	4617.734	4540.527	4058.900	2965.129	1593.596	847.810	532.179	368.205	298.351
32.0	4604.866	4522.144	4053.385	2963.291	1579.442	833.655	520.230	357.176	288.057
32.5	4586.484	4503.761	4046.032	2957.776	1564.000	819.133	507.179	346.698	278.314
33.0	4569.939	4479.864	4033.164	2955.938	1550.213	804.978	495.414	336.220	268.020
33.5	4555.233	4461.481	4023.973	2950.423	1534.220	791.191	483.833	326.293	259.196
34.0	4536.850	4441.260	4011.105	2946.747	1518.779	777.221	472.068	316.734	249.637
34.5	4518.468	4419.201	3990.884	2939.394	1505.175	763.617	461.773	306.991	240.446
35.0	4498.247	4397.142	3970.663	2932.041	1488.631	749.646	450.008	297.616	231.990
35.5	4478.026	4373.244	3946.766	2924.687	1474.292	735.492	438.979	288.608	223.166
36.0	4457.805	4349.347	3922.868	2915.496	1457.748	722.256	428.133	279.417	215.261
36.5	4443.098	4323.611	3898.971	2906.305	1442.674	708.837	417.287	270.961	207.357
37.0	4421.039	4296.037	3873.235	2898.952	1428.520	695.785	407.177	262.505	199.452
37.5	4398.980	4268.463	3847.499	2886.084	1410.321	682.733	396.882	254.417	192.283
38.0	4375.082	4239.051	3819.925	2873.216	1395.063	668.946	386.588	246.328	184.378
38.5	4347.508	4211.476	3790.513	2860.348	1378.151	656.079	376.845	238.424	177.209
39.0	4327.287	4183.902	3761.100	2847.480	1361.055	643.211	366.919	230.887	170.408
39.5	4305.228	4154.490	3731.688	2832.774	1346.165	630.894	357.544	223.350	163.606
40.0	4281.331	4125.078	3698.599	2818.068	1328.885	618.578	348.352	216.364	157.172
40.5	4257.433	4091.989	3667.349	2803.362	1313.444	605.894	339.161	209.195	150.554
41.0	4233.536	4062.577	3632.421	2788.656	1297.267	593.761	330.337	202.577	144.672
41.5	4209.638	4035.003	3603.009	2773.949	1279.804	581.629	321.697	196.327	138.973
42.0	4185.741	4005.590	3571.759	2759.243	1264.362	570.048	313.977	189.893	133.458
42.5	4163.681	3979.854	3540.508	2744.537	1247.818	558.650	306.256	184.011	128.495
43.0	4139.784	3954.119	3509.257	2727.993	1231.825	547.253	298.535	178.496	123.164
43.5	4119.563	3926.545	3476.168	2709.610	1216.567	536.223	290.998	172.797	118.385
44.0	4097.504	3900.809	3443.080	2693.065	1200.574	525.378	283.645	167.650	113.605
44.5	4079.121	3875.073	3411.829	2676.521	1185.868	514.532	276.843	162.503	109.193
45.0	4055.224	3849.337	3380.578	2659.977	1170.426	504.421	270.410	157.724	105.149
45.5	4035.003	3823.601	3347.490	2641.594	1156.272	493.759	263.424	152.944	100.921
46.0	4016.620	3799.704	3314.401	2621.373	1142.485	483.833	257.542	148.165	96.877
46.5	3994.561	3775.806	3281.312	2602.990	1128.330	473.906	250.924	143.753	93.200
47.0	3974.340	3751.909	3248.223	2582.769	1113.624	463.979	244.858	139.341	89.340
47.5	3955.957	3729.850	3216.972	2564.387	1097.999	454.604	239.159	135.113	85.847
48.0	3935.736	3702.276	3180.207	2542.327	1082.006	445.045	233.276	131.069	82.354
48.5	3911.838	3676.540	3147.118	2520.268	1067.300	435.670	227.578	126.841	79.046
49.0	3889.779	3648.966	3112.191	2498.209	1051.123	426.479	221.879	122.980	75.921
49.5	3865.882	3623.230	3077.264	2476.150	1035.497	417.287	216.364	119.488	72.979
50.0	3843.822	3597.494	3047.852	2452.252	1020.056	408.647	211.401	115.811	70.222
50.5	3819.925	3569.920	3014.763	2426.516	1003.879	399.824	206.254	112.502	67.465
51.0	3794.189	3542.346	2979.836	2400.781	988.622	391.368	201.291	109.009	64.707
51.5	3770.292	3518.449	2944.908	2371.368	972.812	382.912	196.327	105.701	62.317
52.0	3748.232	3490.875	2913.658	2341.956	957.922	374.456	191.364	102.575	59.928
52.5	3726.173	3465.139	2882.407	2312.544	943.584	366.551	186.952	99.634	57.722
53.0	3704.114	3435.727	2849.318	2283.131	927.591	358.646	182.356	96.877	55.516
53.5	3682.055	3409.991	2816.230	2251.881	912.701	350.926	177.761	94.119	53.494
54.0	3656.319	3386.093	2784.979	2220.630	897.076	342.837	173.533	91.362	51.472
54.5	3634.260	3358.519	2753.728	2189.380	881.634	335.300	168.937	88.788	49.633

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55.0	3610.362	3334.622	2722.478	2158.129	867.296	328.131	164.709	86.215	47.795
55.5	3584.626	3307.048	2689.389	2125.040	851.303	320.962	160.481	83.825	45.957
56.0	3562.567	3279.474	2658.138	2090.113	836.964	313.793	156.253	81.435	44.486
56.5	3536.831	3250.061	2625.049	2057.024	821.890	306.440	152.393	79.229	42.832
57.0	3511.096	3222.487	2590.122	2023.935	806.081	299.454	148.165	77.024	41.361
57.5	3489.036	3193.075	2560.710	1990.846	792.111	292.653	144.304	75.001	39.890
58.0	3461.462	3163.663	2527.621	1955.919	776.301	286.035	140.628	72.979	38.604
58.5	3439.403	3132.412	2496.371	1920.992	761.411	279.601	136.951	71.141	37.317
59.0	3417.344	3104.838	2465.120	1887.903	746.521	273.351	133.642	69.119	36.030
59.5	3395.285	3075.426	2430.193	1852.976	731.080	267.101	130.333	67.465	34.743
60.0	3384.255	3047.852	2398.942	1818.049	717.477	261.034	126.841	65.626	33.640
60.5	3376.902	3023.954	2367.692	1784.592	702.035	255.336	123.716	64.156	32.537
61.0	3375.064	2998.218	2334.603	1751.320	687.697	249.453	120.591	62.501	31.618
61.5	3380.578	2974.321	2303.352	1716.760	673.358	243.571	117.649	61.031	30.515
62.0	3382.417	2955.938	2272.102	1682.568	657.917	237.872	114.524	59.376	29.596
62.5	3389.770	2943.070	2240.851	1647.641	643.946	232.541	111.767	57.906	28.677
63.0	3397.123	2935.717	2207.762	1614.001	629.424	227.026	109.193	56.619	27.758
63.5	3404.476	2928.364	2174.673	1577.787	614.901	222.063	106.436	55.148	27.023
64.0	3402.638	2922.849	2141.584	1542.860	600.747	216.732	103.862	53.861	26.103
64.5	3386.093	2921.011	2106.657	1507.198	586.224	211.401	101.105	52.391	25.368
65.0	3353.004	2915.496	2073.569	1472.638	572.437	206.254	98.347	51.104	24.633
65.5	3305.209	2906.305	2038.641	1438.998	558.650	201.107	95.958	49.817	23.898
66.0	3255.576	2880.569	2007.391	1405.174	544.679	196.143	93.568	48.530	23.162
66.5	3204.105	2838.289	1976.140	1371.349	530.892	191.180	90.994	47.244	22.427
67.0	3147.118	2788.656	1944.890	1337.525	516.370	186.217	88.605	46.141	21.692
67.5	3097.485	2735.346	1913.639	1304.436	502.583	181.437	86.215	44.854	21.140
68.0	3029.469	2685.712	1887.903	1271.164	489.347	176.474	83.825	43.567	20.405
68.5	2944.908	2632.403	1864.006	1238.442	476.296	171.878	81.435	42.464	19.669
69.0	2852.995	2577.254	1841.946	1206.273	463.979	167.099	79.229	41.361	19.118
69.5	2726.154	2507.400	1824.667	1177.412	451.111	162.319	77.024	40.258	18.567
70.0	2584.608	2419.163	1805.733	1144.323	438.427	157.724	74.818	38.971	17.831
70.5	2435.708	2323.573	1787.718	1113.440	426.111	153.128	72.612	37.868	17.280
71.0	2270.263	2211.439	1759.224	1082.741	413.427	148.532	70.590	36.765	16.728
71.5	2125.040	2082.760	1715.474	1050.020	401.478	144.120	68.567	35.662	15.993
72.0	1966.949	1955.919	1665.840	1017.299	389.529	139.709	66.545	34.559	15.441
72.5	1821.726	1820.990	1612.347	984.394	377.397	135.297	64.339	33.273	14.890
73.0	1705.547	1686.429	1559.956	951.672	365.816	130.885	62.134	32.170	14.339
73.5	1593.412	1563.081	1509.403	920.054	354.235	126.473	60.111	31.067	13.787
74.0	1508.484	1446.535	1452.785	888.436	342.837	122.245	58.089	29.964	13.236
74.5	1435.689	1354.253	1391.938	856.818	331.256	117.833	56.067	28.861	12.684
75.0	1370.982	1274.840	1322.451	824.832	319.491	113.789	54.045	27.942	12.133
75.5	1324.473	1207.927	1244.876	793.030	308.094	109.561	52.023	26.655	11.581
76.0	1279.252	1154.617	1164.544	760.308	296.881	105.517	50.001	25.736	10.846
76.5	1242.487	1111.234	1079.432	727.955	286.035	101.473	47.979	24.633	10.110
77.0	1208.846	1070.792	992.114	695.234	275.373	97.428	46.141	23.530	9.559
77.5	1171.162	1033.108	908.289	662.145	264.711	93.384	44.118	22.427	9.191
78.0	1151.308	997.445	833.472	630.159	254.600	89.524	42.096	21.324	8.824
78.5	1147.632	967.114	770.419	599.644	244.306	85.663	40.258	20.221	8.272
79.0	1148.919	954.430	715.822	569.496	234.563	81.803	38.236	19.302	7.905
79.5	1156.456	956.636	670.601	537.510	224.453	77.943	36.214	18.383	7.537
80.0	1164.360	962.518	631.262	503.686	214.342	74.082	34.376	17.464	6.985
80.5	1171.529	965.276	595.783	468.575	203.864	70.222	32.354	16.361	6.618
81.0	1176.493	966.195	566.003	433.832	193.202	66.362	30.515	15.441	6.250
81.5	1171.162	966.379	546.701	401.478	182.356	62.501	28.493	14.522	5.882
82.0	1140.463	954.430	538.429	368.022	170.591	58.641	26.655	13.603	5.515
82.5	1082.373	918.767	534.569	333.646	158.827	54.597	24.817	12.684	5.147

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

83.0	1015.828	862.149	529.789	298.903	147.062	50.736	22.978	11.765	4.780
83.5	957.003	806.817	520.966	266.733	135.480	46.876	21.140	10.846	4.596
84.0	895.605	753.875	500.745	238.791	123.899	43.016	19.302	9.927	4.228
84.5	841.009	702.035	469.862	215.078	112.502	39.155	17.464	9.008	4.044
85.0	784.206	650.931	432.729	195.040	101.289	35.295	15.625	8.272	3.677
85.5	733.286	603.320	394.125	176.474	90.075	31.618	13.787	7.353	3.493
86.0	673.726	548.724	356.992	158.275	79.046	27.758	11.949	6.434	3.125
86.5	591.371	480.524	317.285	140.076	68.200	23.898	10.294	5.699	2.941
87.0	511.591	405.339	274.821	119.671	56.986	20.037	8.456	4.780	2.574
87.5	421.331	327.212	227.762	97.428	45.957	16.177	6.802	4.044	2.390
88.0	327.028	244.122	173.533	74.450	34.927	12.500	5.331	3.309	2.206
88.5	234.563	154.047	115.260	50.369	23.898	8.824	3.677	2.574	2.022
89.0	117.098	58.641	56.619	28.126	13.236	5.331	2.574	2.022	1.654
89.5	31.986	9.191	17.096	13.419	7.169	2.941	1.838	1.654	1.654
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-L90-940-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
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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-L90-940-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	818.46	N.A.	10.50
0-30	1858.82	N.A.	23.90
0-40	3158.36	N.A.	40.60
0-60	5802.01	N.A.	74.60
0-80	7547.54	N.A.	97.00
0-90	7780.23	N.A.	100.00
10-90	7583.38	N.A.	97.50
20-40	2339.9	N.A.	30.10
20-50	3699.25	N.A.	47.50
40-70	3752.24	N.A.	48.20
60-80	1745.53	N.A.	22.40
70-80	636.94	N.A.	8.20
80-90	232.69	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	7780.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	196.85
10-20	621.62
20-30	1040.36
30-40	1299.54
40-50	1359.35
50-60	1284.3
60-70	1108.6
70-80	636.94
80-90	232.69
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

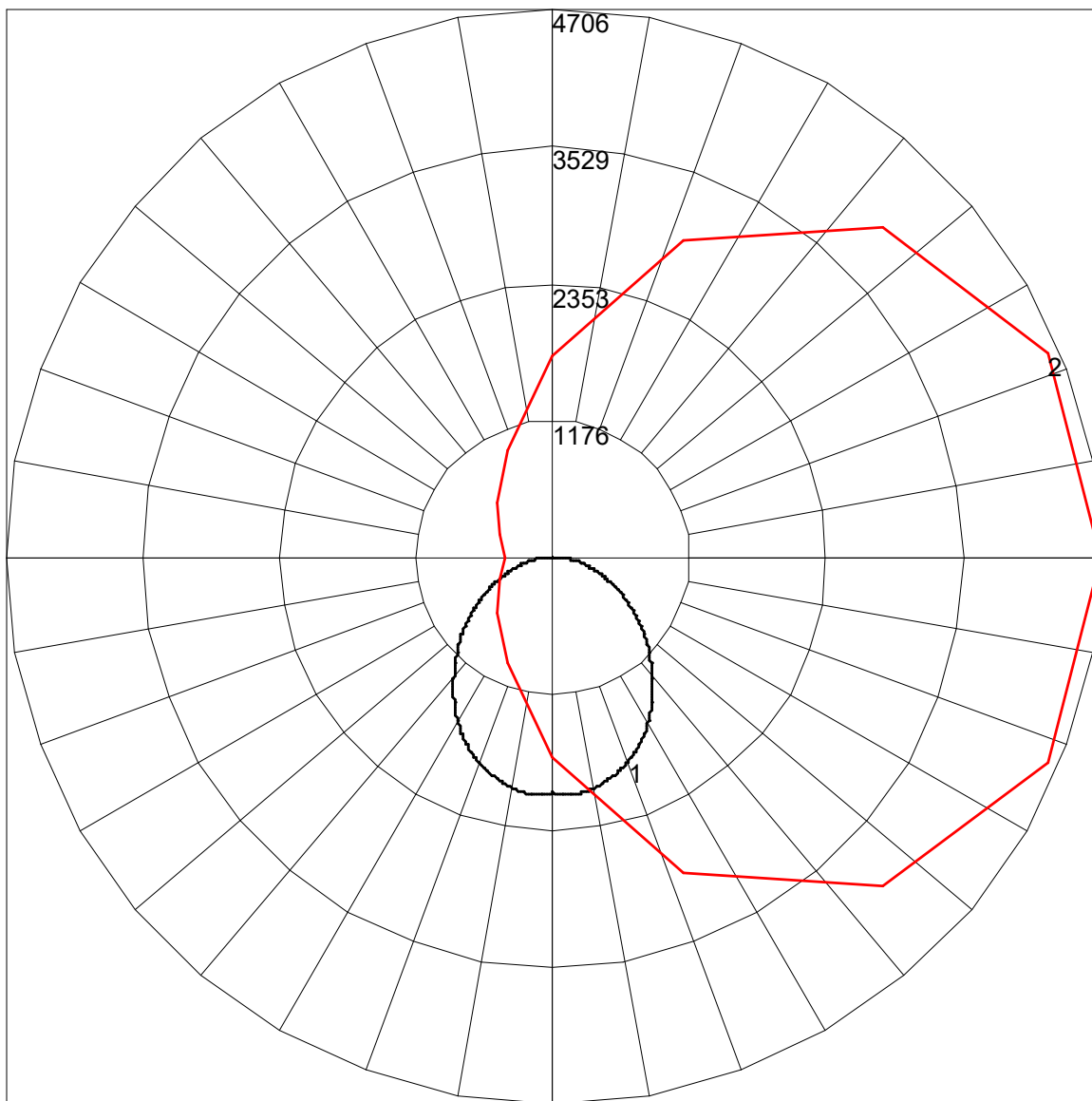
X=2H	Y=2H	25.7	27.4	26.1	27.7	28.0	19.2	20.9	19.6	21.3	21.6
	3H	28.7	30.2	29.1	30.5	30.9	20.5	22.1	20.9	22.4	22.8
	4H	29.2	30.7	29.6	31.0	31.4	21.0	22.4	21.4	22.8	23.2
	6H	29.7	31.1	30.2	31.5	31.9	21.3	22.7	21.7	23.1	23.4
	8H	30.2	31.5	30.6	31.9	32.2	21.4	22.7	21.9	23.1	23.5
	12H	30.5	31.8	31.0	32.2	32.6	21.5	22.8	22.0	23.2	23.6

UGR Viewed Endwise

4H	2H	26.1	27.6	26.5	28.0	28.3	20.8	22.2	21.2	22.6	22.9
	3H	29.3	30.6	29.7	31.0	31.4	22.5	23.7	22.9	24.1	24.5
	4H	30.0	31.1	30.4	31.5	31.9	23.1	24.2	23.5	24.6	25.1
	6H	30.7	31.7	31.1	32.1	32.6	23.5	24.5	24.0	25.0	25.4
	8H	31.2	32.1	31.7	32.6	33.0	23.7	24.6	24.1	25.0	25.5
	12H	31.7	32.5	32.2	33.0	33.5	23.8	24.6	24.2	25.1	25.5
8H	4H	30.2	31.1	30.6	31.5	32.0	24.0	24.9	24.5	25.4	25.8
	6H	31.0	31.8	31.5	32.3	32.7	24.6	25.4	25.1	25.8	26.3
	8H	31.7	32.4	32.2	32.9	33.4	24.8	25.5	25.3	26.0	26.5
	12H	32.4	33.0	32.9	33.5	34.0	24.9	25.5	25.4	26.0	26.6
12H	4H	30.2	31.0	30.7	31.5	31.9	24.2	25.0	24.6	25.5	25.9
	6H	31.1	31.7	31.6	32.2	32.7	24.8	25.5	25.3	26.0	26.5
	8H	31.8	32.4	32.3	32.9	33.4	25.1	25.7	25.6	26.2	26.7

Maximum UGR = 34.0

POLAR GRAPH



Maximum Candela = 4705.971 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.)