

IES INDOOR REPORT

PHOTOMETRIC FILENAME : RWG-4-L90-950-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-L90-950-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 | 8052 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 86 |
| 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 | 19626 | 16361 | 5665 |
| 55 | 21541 | 16243 | 5175 |
| 65 | 27151 | 16791 | 4635 |
| 75 | 18128 | 17486 | 4224 |
| 85 | 30792 | 16991 | 3977 |

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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 | 2083.124 | 2083.124 | 2083.124 | 2083.124 | 2083.124 | 2083.124 | 2083.124 | 2083.124 | 2083.124 |
| 0.5 | 2058.392 | 2117.367 | 2132.586 | 2138.293 | 2121.171 | 2092.636 | 2050.783 | 2012.735 | 1944.249 |
| 1.0 | 2115.464 | 2170.634 | 2174.439 | 2161.122 | 2121.171 | 2069.807 | 2010.833 | 1961.370 | 1889.460 |
| 1.5 | 2174.439 | 2227.706 | 2220.096 | 2185.853 | 2121.171 | 2048.880 | 1970.882 | 1910.006 | 1836.193 |
| 2.0 | 2237.218 | 2284.778 | 2263.851 | 2208.682 | 2123.074 | 2027.954 | 1932.834 | 1859.592 | 1783.877 |
| 2.5 | 2298.094 | 2339.947 | 2307.606 | 2231.510 | 2124.976 | 2007.028 | 1893.835 | 1809.179 | 1732.512 |
| 3.0 | 2360.873 | 2400.824 | 2353.264 | 2256.242 | 2124.976 | 1986.101 | 1855.597 | 1760.477 | 1681.528 |
| 3.5 | 2425.555 | 2459.798 | 2397.019 | 2279.070 | 2124.976 | 1965.175 | 1816.978 | 1712.917 | 1633.397 |
| 4.0 | 2490.236 | 2520.675 | 2444.579 | 2303.802 | 2124.976 | 1942.346 | 1779.311 | 1664.787 | 1584.315 |
| 4.5 | 2556.820 | 2581.551 | 2490.236 | 2326.630 | 2123.074 | 1919.518 | 1743.165 | 1618.939 | 1536.755 |
| 5.0 | 2625.306 | 2644.330 | 2537.796 | 2349.459 | 2123.074 | 1898.020 | 1707.020 | 1574.233 | 1491.859 |
| 5.5 | 2691.890 | 2709.012 | 2585.356 | 2372.288 | 2119.269 | 1876.904 | 1670.874 | 1529.907 | 1445.631 |
| 6.0 | 2760.377 | 2773.693 | 2632.916 | 2395.117 | 2117.367 | 1854.836 | 1634.919 | 1486.532 | 1399.022 |
| 6.5 | 2828.863 | 2840.277 | 2678.574 | 2417.945 | 2115.464 | 1832.578 | 1598.964 | 1442.587 | 1353.935 |
| 7.0 | 2899.251 | 2906.861 | 2728.036 | 2438.872 | 2113.562 | 1810.891 | 1564.911 | 1399.212 | 1314.746 |
| 7.5 | 2971.542 | 2973.445 | 2775.596 | 2461.700 | 2111.660 | 1789.203 | 1529.336 | 1359.262 | 1281.644 |
| 8.0 | 3041.931 | 3038.126 | 2821.253 | 2484.529 | 2109.757 | 1767.326 | 1495.093 | 1322.355 | 1246.069 |
| 8.5 | 3108.515 | 3104.710 | 2870.716 | 2505.455 | 2104.050 | 1745.448 | 1461.040 | 1290.585 | 1213.919 |
| 9.0 | 3177.001 | 3171.294 | 2916.373 | 2528.284 | 2100.245 | 1722.620 | 1425.656 | 1258.245 | 1183.100 |
| 9.5 | 3253.097 | 3237.878 | 2965.835 | 2549.211 | 2094.538 | 1700.742 | 1393.125 | 1228.377 | 1156.657 |
| 10.0 | 3321.583 | 3302.559 | 3013.395 | 2570.137 | 2090.733 | 1678.103 | 1359.262 | 1201.553 | 1127.170 |
| 10.5 | 3393.874 | 3369.143 | 3060.955 | 2591.063 | 2085.026 | 1656.036 | 1330.155 | 1175.300 | 1097.682 |
| 11.0 | 3462.361 | 3431.922 | 3106.613 | 2610.087 | 2081.221 | 1634.729 | 1302.380 | 1147.906 | 1069.147 |
| 11.5 | 3530.847 | 3494.701 | 3152.270 | 2629.111 | 2075.514 | 1611.710 | 1275.556 | 1120.511 | 1041.181 |
| 12.0 | 3597.431 | 3557.480 | 3197.928 | 2648.135 | 2069.807 | 1590.784 | 1250.445 | 1093.687 | 1013.977 |
| 12.5 | 3667.819 | 3620.260 | 3245.488 | 2669.062 | 2064.100 | 1567.384 | 1224.953 | 1067.244 | 987.534 |
| 13.0 | 3734.403 | 3683.039 | 3291.145 | 2688.085 | 2058.392 | 1544.936 | 1201.173 | 1042.133 | 961.281 |
| 13.5 | 3799.085 | 3742.013 | 3338.705 | 2707.109 | 2050.783 | 1522.868 | 1183.671 | 1017.401 | 936.550 |
| 14.0 | 3861.864 | 3802.890 | 3380.558 | 2726.133 | 2043.173 | 1499.849 | 1161.413 | 992.099 | 910.677 |
| 14.5 | 3926.545 | 3863.766 | 3426.215 | 2741.353 | 2035.564 | 1478.542 | 1139.345 | 967.939 | 886.897 |
| 15.0 | 3991.227 | 3920.838 | 3468.068 | 2760.377 | 2027.954 | 1457.045 | 1117.087 | 944.159 | 863.117 |
| 15.5 | 4057.811 | 3979.812 | 3511.823 | 2777.498 | 2022.247 | 1434.977 | 1095.780 | 920.950 | 839.908 |
| 16.0 | 4114.882 | 4034.982 | 3551.773 | 2794.620 | 2014.637 | 1413.480 | 1074.473 | 898.502 | 818.601 |
| 16.5 | 4171.954 | 4090.151 | 3591.724 | 2811.741 | 2005.125 | 1389.890 | 1053.547 | 876.624 | 795.202 |
| 17.0 | 4225.221 | 4143.418 | 3633.576 | 2828.863 | 1997.516 | 1367.632 | 1033.191 | 855.127 | 773.704 |
| 17.5 | 4276.586 | 4194.783 | 3673.527 | 2844.082 | 1988.004 | 1345.755 | 1013.026 | 834.201 | 752.968 |
| 18.0 | 4326.048 | 4242.343 | 3715.379 | 2863.106 | 1978.492 | 1324.068 | 993.812 | 812.704 | 731.281 |
| 18.5 | 4371.706 | 4288.001 | 3753.427 | 2878.325 | 1970.882 | 1302.190 | 974.027 | 792.728 | 712.067 |
| 19.0 | 4417.363 | 4331.756 | 3787.670 | 2893.544 | 1961.370 | 1282.025 | 954.052 | 772.563 | 690.760 |
| 19.5 | 4463.021 | 4371.706 | 3823.816 | 2906.861 | 1949.956 | 1263.762 | 935.408 | 752.398 | 671.165 |
| 20.0 | 4504.874 | 4409.754 | 3858.059 | 2920.178 | 1942.346 | 1245.118 | 915.623 | 732.993 | 652.332 |
| 20.5 | 4550.531 | 4449.704 | 3892.302 | 2937.299 | 1932.834 | 1227.045 | 897.741 | 713.398 | 632.356 |
| 21.0 | 4586.677 | 4485.850 | 3924.643 | 2948.714 | 1921.420 | 1209.734 | 879.287 | 695.326 | 614.474 |
| 21.5 | 4624.725 | 4520.093 | 3955.081 | 2963.933 | 1911.908 | 1194.895 | 860.834 | 677.063 | 595.640 |
| 22.0 | 4657.065 | 4554.336 | 3983.617 | 2975.347 | 1900.303 | 1178.725 | 843.522 | 658.800 | 577.948 |
| 22.5 | 4689.406 | 4586.677 | 4008.348 | 2984.859 | 1888.128 | 1162.935 | 825.450 | 640.727 | 560.446 |
| 23.0 | 4719.844 | 4619.017 | 4033.079 | 2998.176 | 1878.426 | 1145.813 | 808.328 | 623.415 | 541.802 |
| 23.5 | 4755.990 | 4647.553 | 4050.201 | 3007.688 | 1866.631 | 1129.833 | 791.206 | 606.294 | 526.964 |
| 24.0 | 4784.526 | 4674.187 | 4069.225 | 3017.200 | 1856.358 | 1112.141 | 773.895 | 589.553 | 509.462 |
| 24.5 | 4811.159 | 4697.016 | 4086.347 | 3026.712 | 1843.612 | 1095.209 | 757.724 | 573.002 | 493.482 |
| 25.0 | 4833.988 | 4717.942 | 4101.566 | 3036.224 | 1831.817 | 1078.278 | 740.413 | 557.212 | 478.643 |
| 25.5 | 4849.207 | 4742.673 | 4118.687 | 3043.834 | 1818.691 | 1061.727 | 724.623 | 541.612 | 462.663 |
| 26.0 | 4864.426 | 4759.795 | 4135.809 | 3049.541 | 1804.993 | 1046.128 | 709.023 | 526.393 | 448.775 |
| 26.5 | 4870.134 | 4773.111 | 4149.126 | 3055.248 | 1792.057 | 1029.386 | 693.233 | 511.364 | 433.556 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------|----------|----------|----------|----------|----------|----------|---------|---------|---------|
| 27.0 | 4870.134 | 4782.623 | 4162.442 | 3060.955 | 1778.740 | 1014.167 | 678.394 | 496.525 | 419.288 |
| 27.5 | 4866.329 | 4784.526 | 4170.052 | 3064.760 | 1763.711 | 998.187 | 662.414 | 482.638 | 406.352 |
| 28.0 | 4862.524 | 4782.623 | 4179.564 | 3066.662 | 1752.107 | 982.397 | 647.576 | 468.180 | 392.084 |
| 28.5 | 4856.817 | 4776.916 | 4187.174 | 3070.467 | 1736.507 | 967.559 | 633.308 | 455.053 | 379.908 |
| 29.0 | 4847.305 | 4767.404 | 4194.783 | 3074.272 | 1723.381 | 951.578 | 618.469 | 441.927 | 366.972 |
| 29.5 | 4837.793 | 4755.990 | 4200.490 | 3074.272 | 1708.542 | 936.930 | 604.962 | 429.181 | 354.416 |
| 30.0 | 4820.671 | 4742.673 | 4202.393 | 3072.369 | 1692.562 | 921.521 | 590.694 | 416.815 | 343.192 |
| 30.5 | 4805.452 | 4729.356 | 4204.295 | 3072.369 | 1678.103 | 906.492 | 577.567 | 404.069 | 330.446 |
| 31.0 | 4794.038 | 4716.040 | 4202.393 | 3070.467 | 1662.504 | 892.033 | 564.060 | 392.655 | 319.983 |
| 31.5 | 4778.819 | 4698.918 | 4200.490 | 3068.565 | 1649.187 | 877.385 | 550.744 | 381.050 | 308.759 |
| 32.0 | 4765.502 | 4679.894 | 4194.783 | 3066.662 | 1634.539 | 862.737 | 538.378 | 369.636 | 298.105 |
| 32.5 | 4746.478 | 4660.870 | 4187.174 | 3060.955 | 1618.558 | 847.708 | 524.871 | 358.792 | 288.023 |
| 33.0 | 4729.356 | 4636.139 | 4173.857 | 3059.053 | 1604.291 | 833.059 | 512.696 | 347.948 | 277.369 |
| 33.5 | 4714.137 | 4617.115 | 4164.345 | 3053.346 | 1587.740 | 818.791 | 500.711 | 337.675 | 268.238 |
| 34.0 | 4695.113 | 4596.189 | 4151.028 | 3049.541 | 1571.760 | 804.333 | 488.535 | 327.783 | 258.345 |
| 34.5 | 4676.089 | 4573.360 | 4130.102 | 3041.931 | 1557.682 | 790.255 | 477.882 | 317.700 | 248.833 |
| 35.0 | 4655.163 | 4550.531 | 4109.175 | 3034.322 | 1540.560 | 775.797 | 465.707 | 307.998 | 240.082 |
| 35.5 | 4634.237 | 4525.800 | 4084.444 | 3026.712 | 1525.722 | 761.149 | 454.292 | 298.676 | 230.951 |
| 36.0 | 4613.310 | 4501.069 | 4059.713 | 3017.200 | 1508.600 | 747.451 | 443.068 | 289.164 | 222.771 |
| 36.5 | 4598.091 | 4474.435 | 4034.982 | 3007.688 | 1493.000 | 733.564 | 431.844 | 280.413 | 214.590 |
| 37.0 | 4575.262 | 4445.899 | 4008.348 | 3000.078 | 1478.352 | 720.057 | 421.381 | 271.662 | 206.410 |
| 37.5 | 4552.434 | 4417.363 | 3981.715 | 2986.762 | 1459.518 | 706.550 | 410.727 | 263.292 | 198.991 |
| 38.0 | 4527.702 | 4386.925 | 3953.179 | 2973.445 | 1443.728 | 692.282 | 400.074 | 254.921 | 190.810 |
| 38.5 | 4499.166 | 4358.389 | 3922.740 | 2960.128 | 1426.226 | 678.965 | 389.991 | 246.741 | 183.391 |
| 39.0 | 4478.240 | 4329.853 | 3892.302 | 2946.811 | 1408.534 | 665.648 | 379.718 | 238.941 | 176.352 |
| 39.5 | 4455.411 | 4299.415 | 3861.864 | 2931.592 | 1393.125 | 652.902 | 370.016 | 231.141 | 169.313 |
| 40.0 | 4430.680 | 4268.977 | 3827.621 | 2916.373 | 1375.242 | 640.156 | 360.504 | 223.912 | 162.655 |
| 40.5 | 4405.949 | 4234.733 | 3795.280 | 2901.154 | 1359.262 | 627.030 | 350.992 | 216.493 | 155.806 |
| 41.0 | 4381.218 | 4204.295 | 3759.134 | 2885.935 | 1342.521 | 614.474 | 341.861 | 209.644 | 149.719 |
| 41.5 | 4356.487 | 4175.759 | 3728.696 | 2870.716 | 1324.448 | 601.918 | 332.919 | 203.176 | 143.821 |
| 42.0 | 4331.756 | 4145.321 | 3696.355 | 2855.496 | 1308.468 | 589.933 | 324.929 | 196.518 | 138.114 |
| 42.5 | 4308.927 | 4118.687 | 3664.015 | 2840.277 | 1291.346 | 578.138 | 316.939 | 190.430 | 132.977 |
| 43.0 | 4284.196 | 4092.054 | 3631.674 | 2823.156 | 1274.796 | 566.343 | 308.949 | 184.723 | 127.461 |
| 43.5 | 4263.269 | 4063.518 | 3597.431 | 2804.132 | 1259.006 | 554.929 | 301.149 | 178.825 | 122.514 |
| 44.0 | 4240.441 | 4036.884 | 3563.188 | 2787.010 | 1242.455 | 543.705 | 293.540 | 173.499 | 117.568 |
| 44.5 | 4221.417 | 4010.251 | 3530.847 | 2769.889 | 1227.236 | 532.481 | 286.501 | 168.172 | 113.002 |
| 45.0 | 4196.685 | 3983.617 | 3498.506 | 2752.767 | 1211.256 | 522.017 | 279.842 | 163.226 | 108.817 |
| 45.5 | 4175.759 | 3956.984 | 3464.263 | 2733.743 | 1196.607 | 510.984 | 272.613 | 158.279 | 104.442 |
| 46.0 | 4156.735 | 3932.252 | 3430.020 | 2712.817 | 1182.339 | 500.711 | 266.526 | 153.333 | 100.256 |
| 46.5 | 4133.906 | 3907.521 | 3395.777 | 2693.793 | 1167.691 | 490.438 | 259.677 | 148.767 | 96.451 |
| 47.0 | 4112.980 | 3882.790 | 3361.534 | 2672.866 | 1152.471 | 480.165 | 253.399 | 144.202 | 92.456 |
| 47.5 | 4093.956 | 3859.961 | 3329.193 | 2653.842 | 1136.301 | 470.463 | 247.502 | 139.826 | 88.842 |
| 48.0 | 4073.030 | 3831.425 | 3291.145 | 2631.014 | 1119.750 | 460.570 | 241.414 | 135.641 | 85.227 |
| 48.5 | 4048.299 | 3804.792 | 3256.902 | 2608.185 | 1104.531 | 450.868 | 235.517 | 131.265 | 81.803 |
| 49.0 | 4025.470 | 3776.256 | 3220.756 | 2585.356 | 1087.790 | 441.356 | 229.619 | 127.270 | 78.569 |
| 49.5 | 4000.739 | 3749.622 | 3184.611 | 2562.527 | 1071.620 | 431.844 | 223.912 | 123.656 | 75.525 |
| 50.0 | 3977.910 | 3722.989 | 3154.173 | 2537.796 | 1055.640 | 422.903 | 218.776 | 119.851 | 72.672 |
| 50.5 | 3953.179 | 3694.453 | 3119.929 | 2511.163 | 1038.898 | 413.771 | 213.449 | 116.427 | 69.818 |
| 51.0 | 3926.545 | 3665.917 | 3083.784 | 2484.529 | 1023.109 | 405.020 | 208.312 | 112.812 | 66.964 |
| 51.5 | 3901.814 | 3641.186 | 3047.638 | 2454.091 | 1006.748 | 396.269 | 203.176 | 109.388 | 64.491 |
| 52.0 | 3878.985 | 3612.650 | 3015.298 | 2423.652 | 991.339 | 387.518 | 198.039 | 106.154 | 62.018 |
| 52.5 | 3856.157 | 3586.016 | 2982.957 | 2393.214 | 976.500 | 379.338 | 193.474 | 103.110 | 59.735 |
| 53.0 | 3833.328 | 3555.578 | 2948.714 | 2362.776 | 959.949 | 371.157 | 188.718 | 100.256 | 57.452 |
| 53.5 | 3810.499 | 3528.945 | 2914.471 | 2330.435 | 944.540 | 363.167 | 183.962 | 97.403 | 55.360 |
| 54.0 | 3783.866 | 3504.213 | 2882.130 | 2298.094 | 928.369 | 354.797 | 179.586 | 94.549 | 53.267 |
| 54.5 | 3761.037 | 3475.677 | 2849.789 | 2265.754 | 912.389 | 346.997 | 174.830 | 91.886 | 51.365 |

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| | | | | | | | | | |
|------|----------|----------|----------|----------|---------|---------|---------|--------|--------|
| 55.0 | 3736.306 | 3450.946 | 2817.448 | 2233.413 | 897.550 | 339.578 | 170.455 | 89.222 | 49.462 |
| 55.5 | 3709.672 | 3422.410 | 2783.205 | 2199.170 | 881.000 | 332.158 | 166.079 | 86.749 | 47.560 |
| 56.0 | 3686.843 | 3393.874 | 2750.865 | 2163.024 | 866.161 | 324.739 | 161.704 | 84.276 | 46.038 |
| 56.5 | 3660.210 | 3363.436 | 2716.621 | 2128.781 | 850.561 | 317.129 | 157.709 | 81.993 | 44.326 |
| 57.0 | 3633.576 | 3334.900 | 2680.476 | 2094.538 | 834.201 | 309.900 | 153.333 | 79.710 | 42.804 |
| 57.5 | 3610.748 | 3304.462 | 2650.038 | 2060.295 | 819.742 | 302.861 | 149.338 | 77.618 | 41.282 |
| 58.0 | 3582.212 | 3274.023 | 2615.794 | 2024.149 | 803.382 | 296.013 | 145.533 | 75.525 | 39.950 |
| 58.5 | 3559.383 | 3241.683 | 2583.454 | 1988.004 | 787.972 | 289.354 | 141.728 | 73.623 | 38.619 |
| 59.0 | 3536.554 | 3213.147 | 2551.113 | 1953.761 | 772.563 | 282.886 | 138.304 | 71.530 | 37.287 |
| 59.5 | 3513.725 | 3182.708 | 2514.967 | 1917.615 | 756.583 | 276.418 | 134.880 | 69.818 | 35.955 |
| 60.0 | 3502.311 | 3154.173 | 2482.627 | 1881.470 | 742.505 | 270.140 | 131.265 | 67.916 | 34.814 |
| 60.5 | 3494.701 | 3129.441 | 2450.286 | 1846.846 | 726.525 | 264.243 | 128.031 | 66.394 | 33.672 |
| 61.0 | 3492.799 | 3102.808 | 2416.043 | 1812.413 | 711.686 | 258.155 | 124.797 | 64.681 | 32.721 |
| 61.5 | 3498.506 | 3078.077 | 2383.702 | 1776.648 | 696.848 | 252.067 | 121.753 | 63.160 | 31.580 |
| 62.0 | 3500.409 | 3059.053 | 2351.361 | 1741.263 | 680.868 | 246.170 | 118.519 | 61.447 | 30.629 |
| 62.5 | 3508.018 | 3045.736 | 2319.021 | 1705.118 | 666.409 | 240.653 | 115.666 | 59.925 | 29.677 |
| 63.0 | 3515.628 | 3038.126 | 2284.778 | 1670.304 | 651.380 | 234.946 | 113.002 | 58.594 | 28.726 |
| 63.5 | 3523.237 | 3030.517 | 2250.534 | 1632.826 | 636.351 | 229.809 | 110.149 | 57.072 | 27.965 |
| 64.0 | 3521.335 | 3024.810 | 2216.291 | 1596.681 | 621.703 | 224.292 | 107.485 | 55.740 | 27.014 |
| 64.5 | 3504.213 | 3022.907 | 2180.146 | 1559.774 | 606.674 | 218.776 | 104.632 | 54.218 | 26.253 |
| 65.0 | 3469.970 | 3017.200 | 2145.903 | 1524.009 | 592.406 | 213.449 | 101.778 | 52.887 | 25.492 |
| 65.5 | 3420.508 | 3007.688 | 2109.757 | 1489.196 | 578.138 | 208.122 | 99.305 | 51.555 | 24.731 |
| 66.0 | 3369.143 | 2981.054 | 2077.416 | 1454.191 | 563.680 | 202.986 | 96.832 | 50.223 | 23.970 |
| 66.5 | 3315.876 | 2937.299 | 2045.076 | 1419.187 | 549.412 | 197.849 | 94.169 | 48.892 | 23.209 |
| 67.0 | 3256.902 | 2885.935 | 2012.735 | 1384.183 | 534.383 | 192.713 | 91.695 | 47.750 | 22.448 |
| 67.5 | 3205.537 | 2830.765 | 1980.394 | 1349.940 | 520.115 | 187.766 | 89.222 | 46.418 | 21.878 |
| 68.0 | 3135.149 | 2779.401 | 1953.761 | 1315.507 | 506.418 | 182.630 | 86.749 | 45.087 | 21.117 |
| 68.5 | 3047.638 | 2724.231 | 1929.030 | 1281.644 | 492.911 | 177.874 | 84.276 | 43.945 | 20.356 |
| 69.0 | 2952.519 | 2667.159 | 1906.201 | 1248.352 | 480.165 | 172.928 | 81.993 | 42.804 | 19.785 |
| 69.5 | 2821.253 | 2594.868 | 1888.318 | 1218.485 | 466.848 | 167.982 | 79.710 | 41.662 | 19.214 |
| 70.0 | 2674.769 | 2503.553 | 1868.724 | 1184.241 | 453.721 | 163.226 | 77.428 | 40.331 | 18.453 |
| 70.5 | 2520.675 | 2404.628 | 1850.080 | 1152.281 | 440.975 | 158.470 | 75.145 | 39.189 | 17.883 |
| 71.0 | 2349.459 | 2288.582 | 1820.593 | 1120.511 | 427.849 | 153.714 | 73.052 | 38.048 | 17.312 |
| 71.5 | 2199.170 | 2155.415 | 1775.316 | 1086.649 | 415.483 | 149.148 | 70.959 | 36.906 | 16.551 |
| 72.0 | 2035.564 | 2024.149 | 1723.951 | 1052.786 | 403.118 | 144.582 | 68.867 | 35.765 | 15.980 |
| 72.5 | 1885.274 | 1884.513 | 1668.591 | 1018.733 | 390.562 | 140.016 | 66.584 | 34.433 | 15.409 |
| 73.0 | 1765.043 | 1745.258 | 1614.373 | 984.870 | 378.577 | 135.451 | 64.301 | 33.292 | 14.839 |
| 73.5 | 1648.997 | 1617.607 | 1562.057 | 952.149 | 366.592 | 130.885 | 62.208 | 32.150 | 14.268 |
| 74.0 | 1561.106 | 1496.995 | 1503.464 | 919.428 | 354.797 | 126.509 | 60.116 | 31.009 | 13.697 |
| 74.5 | 1485.771 | 1401.495 | 1440.494 | 886.707 | 342.812 | 121.944 | 58.023 | 29.868 | 13.127 |
| 75.0 | 1418.807 | 1319.312 | 1368.584 | 853.605 | 330.636 | 117.758 | 55.930 | 28.916 | 12.556 |
| 75.5 | 1370.676 | 1250.064 | 1288.303 | 820.694 | 318.842 | 113.383 | 53.838 | 27.585 | 11.985 |
| 76.0 | 1323.877 | 1194.895 | 1205.168 | 786.831 | 307.237 | 109.198 | 51.745 | 26.634 | 11.224 |
| 76.5 | 1285.829 | 1149.998 | 1117.087 | 753.349 | 296.013 | 105.012 | 49.653 | 25.492 | 10.463 |
| 77.0 | 1251.016 | 1108.146 | 1026.723 | 719.486 | 284.979 | 100.827 | 47.750 | 24.351 | 9.892 |
| 77.5 | 1212.016 | 1069.147 | 939.974 | 685.243 | 273.945 | 96.642 | 45.658 | 23.209 | 9.512 |
| 78.0 | 1191.471 | 1032.240 | 862.546 | 652.141 | 263.482 | 92.647 | 43.565 | 22.068 | 9.132 |
| 78.5 | 1187.666 | 1000.851 | 797.294 | 620.562 | 252.828 | 88.652 | 41.662 | 20.926 | 8.561 |
| 79.0 | 1188.997 | 987.724 | 740.793 | 589.362 | 242.746 | 84.657 | 39.570 | 19.975 | 8.180 |
| 79.5 | 1196.797 | 990.007 | 693.994 | 556.261 | 232.283 | 80.662 | 37.477 | 19.024 | 7.800 |
| 80.0 | 1204.978 | 996.095 | 653.283 | 521.256 | 221.819 | 76.667 | 35.575 | 18.073 | 7.229 |
| 80.5 | 1212.397 | 998.948 | 616.567 | 484.921 | 210.976 | 72.672 | 33.482 | 16.931 | 6.849 |
| 81.0 | 1217.533 | 999.899 | 585.748 | 448.965 | 199.942 | 68.676 | 31.580 | 15.980 | 6.468 |
| 81.5 | 1212.016 | 1000.090 | 565.773 | 415.483 | 188.718 | 64.681 | 29.487 | 15.029 | 6.088 |
| 82.0 | 1180.246 | 987.724 | 557.212 | 380.860 | 176.542 | 60.686 | 27.585 | 14.078 | 5.707 |
| 82.5 | 1120.131 | 950.818 | 553.217 | 345.285 | 164.367 | 56.501 | 25.682 | 13.127 | 5.327 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RWG-4-L90-950-S-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|-------|----------|---------|---------|---------|---------|--------|--------|--------|-------|
| 83.0 | 1051.264 | 892.224 | 548.271 | 309.330 | 152.192 | 52.506 | 23.780 | 12.175 | 4.946 |
| 83.5 | 990.387 | 834.962 | 539.139 | 276.038 | 140.207 | 48.511 | 21.878 | 11.224 | 4.756 |
| 84.0 | 926.847 | 780.173 | 518.213 | 247.121 | 128.221 | 44.516 | 19.975 | 10.273 | 4.376 |
| 84.5 | 870.346 | 726.525 | 486.252 | 222.580 | 116.427 | 40.521 | 18.073 | 9.322 | 4.185 |
| 85.0 | 811.562 | 673.638 | 447.824 | 201.844 | 104.822 | 36.526 | 16.170 | 8.561 | 3.805 |
| 85.5 | 758.866 | 624.366 | 407.874 | 182.630 | 93.217 | 32.721 | 14.268 | 7.610 | 3.615 |
| 86.0 | 697.228 | 567.865 | 369.445 | 163.796 | 81.803 | 28.726 | 12.366 | 6.658 | 3.234 |
| 86.5 | 612.001 | 497.286 | 328.354 | 144.963 | 70.579 | 24.731 | 10.653 | 5.897 | 3.044 |
| 87.0 | 529.437 | 419.478 | 284.408 | 123.846 | 58.974 | 20.736 | 8.751 | 4.946 | 2.663 |
| 87.5 | 436.029 | 338.626 | 235.707 | 100.827 | 47.560 | 16.741 | 7.039 | 4.185 | 2.473 |
| 88.0 | 338.436 | 252.638 | 179.586 | 77.047 | 36.146 | 12.936 | 5.517 | 3.424 | 2.283 |
| 88.5 | 242.746 | 159.421 | 119.280 | 52.126 | 24.731 | 9.132 | 3.805 | 2.663 | 2.093 |
| 89.0 | 121.183 | 60.686 | 58.594 | 29.107 | 13.697 | 5.517 | 2.663 | 2.093 | 1.712 |
| 89.5 | 33.102 | 9.512 | 17.692 | 13.887 | 7.419 | 3.044 | 1.902 | 1.712 | 1.712 |
| 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-L90-950-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-4-L90-950-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
PHOTOMETRIC FILENAME : RWG-4-L90-950-S-DIM-UNV_.IES

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-L90-950-S-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 847.02 | N.A. | 10.50 |
| 0-30 | 1923.66 | N.A. | 23.90 |
| 0-40 | 3268.54 | N.A. | 40.60 |
| 0-60 | 6004.4 | N.A. | 74.60 |
| 0-80 | 7810.83 | N.A. | 97.00 |
| 0-90 | 8051.63 | N.A. | 100.00 |
| 10-90 | 7847.92 | N.A. | 97.50 |
| 20-40 | 2421.52 | N.A. | 30.10 |
| 20-50 | 3828.29 | N.A. | 47.50 |
| 40-70 | 3883.14 | N.A. | 48.20 |
| 60-80 | 1806.42 | N.A. | 22.40 |
| 70-80 | 659.16 | N.A. | 8.20 |
| 80-90 | 240.80 | 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 | 8051.63 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 203.71 |
| 10-20 | 643.30 |
| 20-30 | 1076.65 |
| 30-40 | 1344.87 |
| 40-50 | 1406.77 |
| 50-60 | 1329.1 |
| 60-70 | 1147.27 |
| 70-80 | 659.16 |
| 80-90 | 240.80 |
| 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
PHOTOMETRIC FILENAME : RWG-4-L90-950-S-DIM-UNV_.IES

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-L90-950-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

| | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|
| X=2H | Y=2H | 25.8 | 27.5 | 26.2 | 27.8 | 28.1 | 19.3 | 21.0 | 19.7 | 21.4 | 21.7 |
| | 3H | 28.8 | 30.3 | 29.2 | 30.6 | 31.0 | 20.6 | 22.2 | 21.0 | 22.5 | 22.9 |
| | 4H | 29.3 | 30.8 | 29.7 | 31.1 | 31.5 | 21.1 | 22.5 | 21.5 | 22.9 | 23.3 |
| | 6H | 29.8 | 31.2 | 30.3 | 31.6 | 32.0 | 21.4 | 22.8 | 21.8 | 23.2 | 23.5 |
| | 8H | 30.3 | 31.6 | 30.7 | 32.0 | 32.3 | 21.5 | 22.8 | 22.0 | 23.2 | 23.6 |
| | 12H | 30.6 | 31.9 | 31.1 | 32.3 | 32.7 | 21.6 | 22.9 | 22.1 | 23.3 | 23.7 |

UGR Viewed Endwise

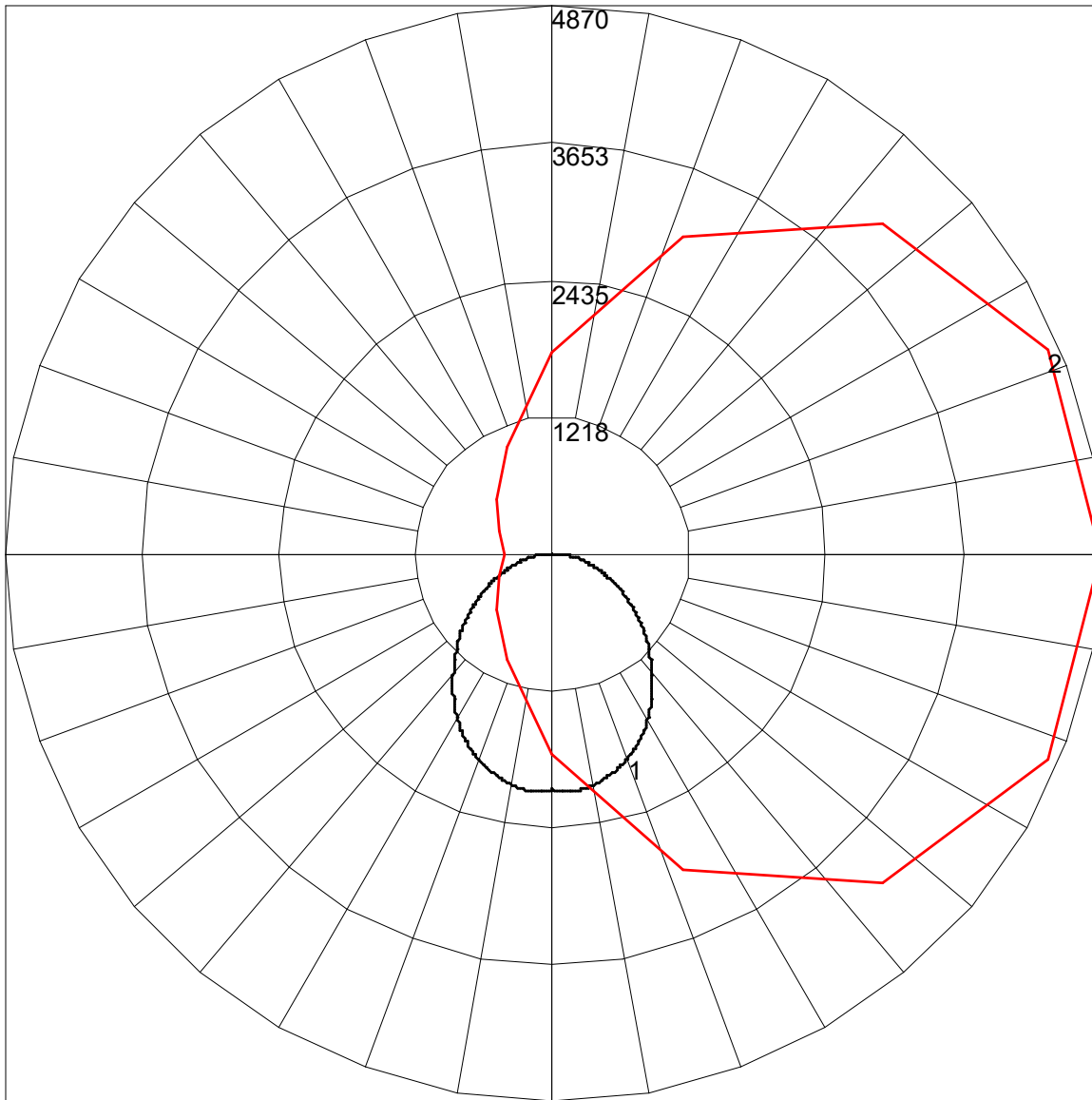
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 26.2 | 27.7 | 26.6 | 28.1 | 28.4 | 20.9 | 22.3 | 21.3 | 22.7 | 23.0 |
| | 3H | 29.4 | 30.7 | 29.8 | 31.1 | 31.5 | 22.6 | 23.8 | 23.0 | 24.2 | 24.6 |
| | 4H | 30.1 | 31.2 | 30.5 | 31.6 | 32.0 | 23.2 | 24.3 | 23.6 | 24.7 | 25.2 |
| | 6H | 30.8 | 31.8 | 31.2 | 32.2 | 32.7 | 23.6 | 24.6 | 24.1 | 25.1 | 25.5 |
| | 8H | 31.3 | 32.2 | 31.8 | 32.7 | 33.1 | 23.8 | 24.7 | 24.2 | 25.1 | 25.6 |
| | 12H | 31.8 | 32.6 | 32.3 | 33.1 | 33.6 | 23.9 | 24.7 | 24.3 | 25.2 | 25.6 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 30.3 | 31.2 | 30.7 | 31.6 | 32.1 | 24.1 | 25.0 | 24.6 | 25.5 | 25.9 |
| | 6H | 31.1 | 31.9 | 31.6 | 32.4 | 32.8 | 24.7 | 25.5 | 25.2 | 25.9 | 26.4 |
| | 8H | 31.8 | 32.5 | 32.3 | 33.0 | 33.5 | 24.9 | 25.6 | 25.4 | 26.1 | 26.6 |
| | 12H | 32.5 | 33.1 | 33.0 | 33.6 | 34.1 | 25.0 | 25.6 | 25.5 | 26.1 | 26.7 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 30.3 | 31.1 | 30.8 | 31.6 | 32.0 | 24.3 | 25.1 | 24.7 | 25.6 | 26.0 |
| | 6H | 31.2 | 31.8 | 31.7 | 32.3 | 32.8 | 24.9 | 25.6 | 25.4 | 26.1 | 26.6 |
| | 8H | 31.9 | 32.5 | 32.4 | 33.0 | 33.5 | 25.2 | 25.8 | 25.7 | 26.3 | 26.8 |

Maximum UGR = 34.1

POLAR GRAPH



Maximum Candela = 4870.134 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.)