

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L240-850-HA-HP-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] 14617179.01  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 1/20/2025  
[TEST DATE] 1/6/2023  
[MANUFAC] H E Williams Inc  
[LUMCAT] GS-2-L240-850-HA-HP-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] ULT D21CC80UNVPW-C  
[OTHER] 24.9 C, 120.004 V, 1.44538 A, 173.17 W, 0.998374 PF, 59.9997 H  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 24901           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 160             |
| Total Luminaire Watts           | 156             |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.28            |
| Spacing Criterion (90-270)      | 1.30            |
| Spacing Criterion (Diagonal)    | 1.42            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.67 ft         |
| Luminous Width (90-270)         | 1.17 ft         |
| Luminous Height                 | 0.00 ft         |

### LUMINANCE DATA (cd/sq.m)

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 49682            | 51220             | 52147             |
| 55                  | 47553            | 49468             | 35582             |
| 65                  | 43134            | 30169             | 9780              |
| 75                  | 35311            | 9707              | 9831              |
| 85                  | 15481            | 13307             | 12391             |

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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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0  | 9439.457   | 9439.457    | 9439.457    | 9439.457    | 9439.457    |
| 0.5  | 9322.848   | 9445.387    | 9466.139    | 9451.316    | 9470.092    |
| 1.0  | 9325.812   | 9446.375    | 9467.127    | 9451.316    | 9469.104    |
| 1.5  | 9329.765   | 9445.387    | 9468.116    | 9448.351    | 9466.139    |
| 2.0  | 9328.777   | 9447.363    | 9466.139    | 9449.339    | 9467.127    |
| 2.5  | 9326.800   | 9445.387    | 9467.127    | 9447.363    | 9464.163    |
| 3.0  | 9325.812   | 9441.434    | 9465.151    | 9448.351    | 9466.139    |
| 3.5  | 9322.848   | 9435.504    | 9464.163    | 9448.351    | 9466.139    |
| 4.0  | 9315.930   | 9432.540    | 9461.198    | 9452.304    | 9468.116    |
| 4.5  | 9307.036   | 9426.610    | 9457.245    | 9454.281    | 9470.092    |
| 5.0  | 9295.177   | 9419.693    | 9454.281    | 9452.304    | 9467.127    |
| 5.5  | 9286.284   | 9413.764    | 9450.328    | 9449.339    | 9463.175    |
| 6.0  | 9279.366   | 9407.834    | 9445.387    | 9442.422    | 9455.269    |
| 6.5  | 9269.484   | 9398.940    | 9440.446    | 9435.504    | 9444.398    |
| 7.0  | 9256.637   | 9389.058    | 9430.563    | 9425.622    | 9431.552    |
| 7.5  | 9245.767   | 9380.164    | 9421.669    | 9412.775    | 9417.716    |
| 8.0  | 9235.884   | 9369.294    | 9408.823    | 9398.940    | 9404.870    |
| 8.5  | 9230.943   | 9357.435    | 9396.964    | 9385.105    | 9394.987    |
| 9.0  | 9223.038   | 9344.588    | 9384.117    | 9371.270    | 9383.129    |
| 9.5  | 9212.167   | 9334.706    | 9373.247    | 9361.388    | 9374.235    |
| 10.0 | 9200.309   | 9325.812    | 9361.388    | 9349.529    | 9362.376    |
| 10.5 | 9189.438   | 9315.930    | 9347.553    | 9334.706    | 9348.541    |
| 11.0 | 9177.580   | 9306.048    | 9331.742    | 9317.906    | 9333.718    |
| 11.5 | 9167.697   | 9295.177    | 9315.930    | 9302.095    | 9310.989    |
| 12.0 | 9148.921   | 9281.342    | 9303.083    | 9281.342    | 9281.342    |
| 12.5 | 9128.169   | 9267.507    | 9285.295    | 9253.672    | 9257.625    |
| 13.0 | 9107.416   | 9251.696    | 9266.519    | 9226.002    | 9231.932    |
| 13.5 | 9085.675   | 9229.955    | 9247.743    | 9202.285    | 9203.273    |
| 14.0 | 9061.958   | 9209.203    | 9227.979    | 9175.603    | 9176.591    |
| 14.5 | 9030.335   | 9188.450    | 9204.261    | 9148.921    | 9153.862    |
| 15.0 | 9007.606   | 9167.697    | 9181.532    | 9122.239    | 9136.074    |
| 15.5 | 8994.759   | 9144.968    | 9154.851    | 9096.546    | 9118.286    |
| 16.0 | 8975.983   | 9119.275    | 9128.169    | 9073.817    | 9096.546    |
| 16.5 | 8956.219   | 9095.557    | 9096.546    | 9051.088    | 9076.781    |
| 17.0 | 8943.372   | 9070.852    | 9068.876    | 9028.359    | 9054.052    |
| 17.5 | 8922.619   | 9047.135    | 9039.229    | 9002.665    | 9032.312    |
| 18.0 | 8898.902   | 9019.465    | 9007.606    | 8978.948    | 9006.618    |
| 18.5 | 8873.208   | 8992.783    | 8979.936    | 8950.289    | 8973.018    |
| 19.0 | 8842.574   | 8967.089    | 8945.348    | 8920.643    | 8941.395    |
| 19.5 | 8808.974   | 8940.407    | 8912.737    | 8891.985    | 8915.702    |
| 20.0 | 8777.351   | 8913.725    | 8881.114    | 8861.350    | 8888.032    |
| 20.5 | 8746.717   | 8885.067    | 8852.456    | 8831.703    | 8860.362    |
| 21.0 | 8717.070   | 8854.432    | 8822.809    | 8804.033    | 8830.715    |
| 21.5 | 8682.482   | 8823.798    | 8792.175    | 8776.363    | 8798.104    |
| 22.0 | 8648.883   | 8793.163    | 8761.540    | 8746.717    | 8765.493    |
| 22.5 | 8620.225   | 8760.552    | 8728.929    | 8716.082    | 8735.846    |
| 23.0 | 8591.566   | 8726.952    | 8692.365    | 8680.506    | 8700.270    |
| 23.5 | 8562.908   | 8689.400    | 8656.789    | 8648.883    | 8668.647    |
| 24.0 | 8527.332   | 8655.801    | 8618.248    | 8617.260    | 8634.060    |
| 24.5 | 8496.697   | 8622.201    | 8578.720    | 8581.684    | 8601.449    |
| 25.0 | 8463.098   | 8580.696    | 8536.226    | 8549.073    | 8563.896    |
| 25.5 | 8424.558   | 8546.108    | 8498.674    | 8512.509    | 8528.320    |
| 26.0 | 8380.088   | 8511.521    | 8462.110    | 8475.945    | 8488.792    |
| 26.5 | 8331.665   | 8466.063    | 8426.534    | 8437.404    | 8450.251    |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 8287.195 | 8421.593 | 8387.993 | 8399.852 | 8411.711 |
| 27.5 | 8243.714 | 8375.147 | 8352.418 | 8362.300 | 8374.158 |
| 28.0 | 8202.208 | 8328.700 | 8313.877 | 8326.724 | 8336.606 |
| 28.5 | 8166.633 | 8282.254 | 8273.360 | 8288.183 | 8296.089 |
| 29.0 | 8127.104 | 8236.796 | 8231.855 | 8242.725 | 8256.560 |
| 29.5 | 8087.575 | 8191.338 | 8190.350 | 8201.220 | 8220.985 |
| 30.0 | 8048.046 | 8140.939 | 8145.880 | 8157.739 | 8179.479 |
| 30.5 | 8008.518 | 8094.493 | 8105.363 | 8113.269 | 8141.927 |
| 31.0 | 7966.024 | 8043.105 | 8064.846 | 8071.764 | 8100.422 |
| 31.5 | 7918.590 | 7992.706 | 8022.353 | 8029.270 | 8058.917 |
| 32.0 | 7869.179 | 7947.248 | 7977.883 | 7985.789 | 8015.435 |
| 32.5 | 7817.792 | 7898.826 | 7935.390 | 7947.248 | 7969.977 |
| 33.0 | 7764.428 | 7851.391 | 7896.849 | 7904.755 | 7928.472 |
| 33.5 | 7713.041 | 7800.992 | 7852.379 | 7861.273 | 7890.920 |
| 34.0 | 7660.665 | 7747.628 | 7803.957 | 7815.815 | 7847.438 |
| 34.5 | 7611.254 | 7695.253 | 7754.546 | 7770.357 | 7801.980 |
| 35.0 | 7565.796 | 7640.901 | 7700.194 | 7725.887 | 7753.558 |
| 35.5 | 7523.303 | 7586.549 | 7637.936 | 7679.441 | 7710.076 |
| 36.0 | 7471.915 | 7528.244 | 7587.537 | 7632.995 | 7664.618 |
| 36.5 | 7418.552 | 7469.939 | 7539.114 | 7584.572 | 7616.195 |
| 37.0 | 7357.282 | 7411.634 | 7485.751 | 7537.138 | 7568.761 |
| 37.5 | 7291.072 | 7354.318 | 7431.399 | 7489.703 | 7518.362 |
| 38.0 | 7227.826 | 7297.989 | 7382.976 | 7440.292 | 7465.986 |
| 38.5 | 7163.591 | 7240.672 | 7336.530 | 7388.905 | 7408.670 |
| 39.0 | 7107.263 | 7183.356 | 7282.178 | 7333.565 | 7355.306 |
| 39.5 | 7053.899 | 7122.086 | 7221.896 | 7275.260 | 7302.930 |
| 40.0 | 6998.559 | 7057.852 | 7161.615 | 7219.920 | 7248.578 |
| 40.5 | 6941.242 | 6993.618 | 7104.298 | 7163.591 | 7197.191 |
| 41.0 | 6887.879 | 6929.384 | 7045.994 | 7102.322 | 7144.815 |
| 41.5 | 6822.656 | 6864.161 | 6983.736 | 7045.994 | 7084.534 |
| 42.0 | 6750.516 | 6799.927 | 6920.490 | 6985.712 | 7023.265 |
| 42.5 | 6672.447 | 6734.705 | 6856.256 | 6925.431 | 6962.983 |
| 43.0 | 6596.354 | 6668.494 | 6794.986 | 6865.150 | 6904.678 |
| 43.5 | 6525.203 | 6598.331 | 6731.740 | 6803.880 | 6847.362 |
| 44.0 | 6461.957 | 6532.120 | 6674.424 | 6744.587 | 6793.998 |
| 44.5 | 6409.581 | 6466.898 | 6613.154 | 6691.223 | 6736.681 |
| 45.0 | 6355.229 | 6397.723 | 6551.885 | 6635.883 | 6670.471 |
| 45.5 | 6295.936 | 6330.524 | 6485.674 | 6569.673 | 6610.189 |
| 46.0 | 6225.773 | 6261.349 | 6411.558 | 6496.544 | 6544.967 |
| 46.5 | 6153.633 | 6189.209 | 6333.488 | 6436.263 | 6482.709 |
| 47.0 | 6077.540 | 6120.033 | 6267.278 | 6374.005 | 6422.428 |
| 47.5 | 6009.353 | 6053.823 | 6201.067 | 6308.783 | 6358.194 |
| 48.0 | 5947.095 | 5989.589 | 6130.904 | 6246.525 | 6291.983 |
| 48.5 | 5885.826 | 5931.284 | 6061.729 | 6185.256 | 6212.926 |
| 49.0 | 5820.603 | 5851.238 | 5996.506 | 6122.010 | 6112.128 |
| 49.5 | 5750.440 | 5766.251 | 5932.272 | 6058.764 | 5995.518 |
| 50.0 | 5662.489 | 5695.100 | 5865.073 | 5990.577 | 5855.191 |
| 50.5 | 5582.443 | 5632.842 | 5792.933 | 5917.449 | 5684.229 |
| 51.0 | 5507.338 | 5558.726 | 5720.793 | 5828.509 | 5487.574 |
| 51.5 | 5442.116 | 5486.586 | 5645.689 | 5719.805 | 5298.824 |
| 52.0 | 5379.858 | 5408.517 | 5574.537 | 5593.313 | 5146.639 |
| 52.5 | 5308.707 | 5333.412 | 5502.397 | 5429.269 | 5002.359 |
| 53.0 | 5226.684 | 5252.378 | 5428.281 | 5241.508 | 4785.939 |
| 53.5 | 5142.686 | 5177.274 | 5357.129 | 5045.841 | 4494.415 |
| 54.0 | 5064.617 | 5109.086 | 5282.025 | 4880.808 | 4161.386 |
| 54.5 | 4999.394 | 5033.982 | 5205.932 | 4738.505 | 3885.673 |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 55.0 | 4934.172 | 4946.031 | 5132.804 | 4560.626 | 3691.982 |
| 55.5 | 4851.162 | 4864.997 | 5057.699 | 4307.642 | 3544.738 |
| 56.0 | 4761.234 | 4799.774 | 4984.571 | 3992.400 | 3401.446 |
| 56.5 | 4686.129 | 4730.599 | 4910.455 | 3698.900 | 3222.579 |
| 57.0 | 4622.883 | 4653.518 | 4832.385 | 3491.374 | 3041.735 |
| 57.5 | 4551.732 | 4567.543 | 4746.411 | 3343.141 | 2891.526 |
| 58.0 | 4469.710 | 4483.545 | 4654.506 | 3222.579 | 2798.633 |
| 58.5 | 4377.805 | 4403.499 | 4541.849 | 3075.334 | 2740.328 |
| 59.0 | 4303.689 | 4325.430 | 4412.393 | 2873.738 | 2691.906 |
| 59.5 | 4231.549 | 4241.431 | 4265.148 | 2706.729 | 2623.718 |
| 60.0 | 4138.657 | 4153.480 | 4091.222 | 2607.907 | 2532.802 |
| 60.5 | 4049.717 | 4078.375 | 3935.084 | 2549.602 | 2417.181 |
| 61.0 | 3969.671 | 3996.353 | 3787.839 | 2500.191 | 2273.889 |
| 61.5 | 3899.508 | 3911.366 | 3616.877 | 2428.051 | 2122.692 |
| 62.0 | 3815.509 | 3821.439 | 3431.093 | 2335.159 | 1971.495 |
| 62.5 | 3711.746 | 3730.523 | 3190.956 | 2213.608 | 1770.886 |
| 63.0 | 3620.830 | 3652.453 | 2920.184 | 2062.411 | 1469.480 |
| 63.5 | 3548.690 | 3575.372 | 2700.799 | 1916.154 | 1226.378 |
| 64.0 | 3460.739 | 3485.444 | 2551.579 | 1769.898 | 1082.099 |
| 64.5 | 3376.741 | 3406.387 | 2437.934 | 1552.490 | 949.776  |
| 65.0 | 3297.683 | 3325.353 | 2306.501 | 1267.884 | 747.686  |
| 65.5 | 3192.932 | 3233.449 | 2141.468 | 1071.228 | 647.876  |
| 66.0 | 3103.992 | 3148.462 | 2003.118 | 951.160  | 625.542  |
| 66.5 | 3026.911 | 3071.381 | 1920.107 | 774.269  | 615.264  |
| 67.0 | 2942.913 | 2985.406 | 1854.885 | 648.864  | 606.272  |
| 67.5 | 2854.961 | 2900.420 | 1786.698 | 603.505  | 597.378  |
| 68.0 | 2764.045 | 2823.339 | 1698.747 | 591.053  | 589.077  |
| 68.5 | 2684.988 | 2732.422 | 1574.231 | 581.171  | 580.973  |
| 69.0 | 2607.907 | 2650.400 | 1431.928 | 571.981  | 572.870  |
| 69.5 | 2521.932 | 2566.402 | 1310.377 | 563.383  | 564.569  |
| 70.0 | 2437.934 | 2488.333 | 1143.368 | 555.181  | 556.367  |
| 70.5 | 2356.900 | 2399.393 | 929.122  | 546.781  | 548.461  |
| 71.0 | 2285.748 | 2306.501 | 791.068  | 538.974  | 540.555  |
| 71.5 | 2203.726 | 2209.655 | 686.910  | 531.167  | 531.661  |
| 72.0 | 2121.704 | 2106.881 | 567.731  | 522.372  | 523.064  |
| 72.5 | 2040.670 | 1975.448 | 508.833  | 513.972  | 513.873  |
| 73.0 | 1964.577 | 1838.085 | 493.516  | 505.473  | 503.892  |
| 73.5 | 1888.484 | 1720.487 | 483.337  | 496.382  | 493.812  |
| 74.0 | 1812.392 | 1595.972 | 473.356  | 486.598  | 482.744  |
| 74.5 | 1737.287 | 1459.598 | 463.968  | 476.025  | 471.775  |
| 75.0 | 1653.289 | 1285.671 | 454.481  | 465.253  | 460.312  |
| 75.5 | 1576.208 | 1164.121 | 445.390  | 454.185  | 448.354  |
| 76.0 | 1499.127 | 1075.181 | 436.595  | 442.722  | 436.199  |
| 76.5 | 1417.104 | 977.940  | 427.108  | 430.962  | 423.649  |
| 77.0 | 1335.082 | 874.770  | 417.621  | 418.906  | 411.197  |
| 77.5 | 1252.072 | 807.572  | 407.442  | 406.750  | 398.351  |
| 78.0 | 1159.180 | 725.648  | 396.868  | 394.200  | 385.504  |
| 78.5 | 1082.099 | 623.071  | 385.504  | 381.057  | 372.262  |
| 79.0 | 1013.912 | 543.915  | 374.040  | 368.210  | 359.316  |
| 79.5 | 943.155  | 429.381  | 362.281  | 355.363  | 346.074  |
| 80.0 | 871.707  | 369.099  | 350.126  | 342.121  | 332.535  |
| 80.5 | 800.160  | 312.672  | 337.971  | 328.484  | 319.194  |
| 81.0 | 727.526  | 293.501  | 325.321  | 314.945  | 307.138  |
| 81.5 | 655.880  | 281.543  | 312.079  | 301.604  | 295.576  |
| 82.0 | 591.350  | 269.092  | 298.244  | 288.066  | 280.160  |
| 82.5 | 533.736  | 256.541  | 284.409  | 274.626  | 266.522  |

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**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 471.775 | 244.287 | 269.685 | 260.791 | 253.280 |
| 83.5  | 411.296 | 231.539 | 255.059 | 247.153 | 239.742 |
| 84.0  | 352.893 | 218.495 | 239.939 | 232.923 | 225.808 |
| 84.5  | 298.343 | 204.660 | 225.116 | 218.100 | 211.281 |
| 85.0  | 244.090 | 190.726 | 209.799 | 202.091 | 195.371 |
| 85.5  | 215.926 | 175.903 | 193.394 | 184.896 | 179.065 |
| 86.0  | 184.994 | 160.585 | 176.100 | 166.811 | 161.376 |
| 86.5  | 140.030 | 144.576 | 156.731 | 147.244 | 143.489 |
| 87.0  | 116.511 | 127.875 | 136.176 | 126.788 | 124.021 |
| 87.5  | 101.688 | 110.483 | 114.238 | 106.036 | 103.071 |
| 88.0  | 86.963  | 91.410  | 92.300  | 83.208  | 79.552  |
| 88.5  | 70.855  | 70.855  | 69.966  | 58.502  | 53.957  |
| 89.0  | 51.783  | 51.091  | 47.632  | 37.948  | 34.884  |
| 89.5  | 32.414  | 34.291  | 30.635  | 25.990  | 25.200  |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 90.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 91.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 91.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 92.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 92.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 93.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 93.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 94.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 94.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 95.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 95.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 96.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 96.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 97.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 97.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 98.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 98.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 99.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 99.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 101.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 101.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 102.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 102.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 103.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 103.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 104.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 104.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 106.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 106.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 107.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 107.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 108.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 108.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 109.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 109.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : GS-2-L240-850-HA-HP-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : GS-2-L240-850-HA-HP-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

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

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : GS-2-L240-850-HA-HP-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

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



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L240-850-HA-HP-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 3476.79  | N.A.  | 14.00  |
| 0-30    | 7415.41  | N.A.  | 29.80  |
| 0-40    | 12219.07 | N.A.  | 49.10  |
| 0-60    | 21457.54 | N.A.  | 86.20  |
| 0-80    | 24677.00 | N.A.  | 99.10  |
| 0-90    | 24901.15 | N.A.  | 100.00 |
| 10-90   | 24004.6  | N.A.  | 96.40  |
| 20-40   | 8742.28  | N.A.  | 35.10  |
| 20-50   | 13768.99 | N.A.  | 55.30  |
| 40-70   | 11562.29 | N.A.  | 46.40  |
| 60-80   | 3219.46  | N.A.  | 12.90  |
| 70-80   | 895.63   | N.A.  | 3.60   |
| 80-90   | 224.16   | N.A.  | 0.90   |
| 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   | 24901.15 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 896.56  |
| 10-20   | 2580.24 |
| 20-30   | 3938.61 |
| 30-40   | 4803.66 |
| 40-50   | 5026.72 |
| 50-60   | 4211.75 |
| 60-70   | 2323.83 |
| 70-80   | 895.63  |
| 80-90   | 224.16  |
| 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 : GS-2-L240-850-HA-HP-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  | 110 | 106 | 102 | 98  | 107 | 103 | 100 | 97  | 99  | 96  | 94  | 95  | 93  | 91  | 92  | 90  | 88  | 86  |
| 2  | 101 | 93  | 87  | 82  | 98  | 91  | 86  | 81  | 88  | 83  | 79  | 85  | 81  | 77  | 82  | 78  | 75  | 73  |
| 3  | 92  | 82  | 75  | 69  | 90  | 81  | 74  | 68  | 78  | 72  | 67  | 75  | 70  | 66  | 73  | 68  | 65  | 63  |
| 4  | 85  | 73  | 65  | 59  | 82  | 72  | 64  | 58  | 70  | 63  | 57  | 67  | 61  | 57  | 65  | 60  | 56  | 54  |
| 5  | 78  | 66  | 57  | 51  | 76  | 65  | 57  | 50  | 62  | 55  | 50  | 61  | 54  | 49  | 59  | 53  | 49  | 47  |
| 6  | 72  | 59  | 51  | 44  | 70  | 58  | 50  | 44  | 57  | 49  | 44  | 55  | 48  | 43  | 53  | 48  | 43  | 41  |
| 7  | 67  | 54  | 45  | 39  | 65  | 53  | 45  | 39  | 51  | 44  | 39  | 50  | 43  | 39  | 49  | 43  | 38  | 36  |
| 8  | 62  | 49  | 41  | 35  | 61  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 45  | 39  | 34  | 32  |
| 9  | 58  | 45  | 37  | 32  | 57  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 41  | 35  | 31  | 29  |
| 10 | 54  | 41  | 34  | 29  | 53  | 41  | 34  | 29  | 40  | 33  | 28  | 39  | 33  | 28  | 38  | 32  | 28  | 26  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : GS-2-L240-850-HA-HP-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 | 26.0 | 27.6 | 26.4 | 27.9 | 28.2 | 23.6 | 25.2 | 24.0 | 25.5 | 25.8 |
|      | 3H   | 27.7 | 29.1 | 28.1 | 29.4 | 29.8 | 23.7 | 25.1 | 24.1 | 25.5 | 25.8 |
|      | 4H   | 28.2 | 29.6 | 28.6 | 29.9 | 30.3 | 23.8 | 25.1 | 24.2 | 25.5 | 25.9 |
|      | 6H   | 28.5 | 29.7 | 28.9 | 30.1 | 30.5 | 23.9 | 25.2 | 24.4 | 25.5 | 25.9 |
|      | 8H   | 28.6 | 29.7 | 29.0 | 30.1 | 30.5 | 24.0 | 25.2 | 24.4 | 25.6 | 26.0 |
|      | 12H  | 28.6 | 29.7 | 29.0 | 30.1 | 30.5 | 24.1 | 25.2 | 24.5 | 25.6 | 26.0 |

UGR Viewed Endwise

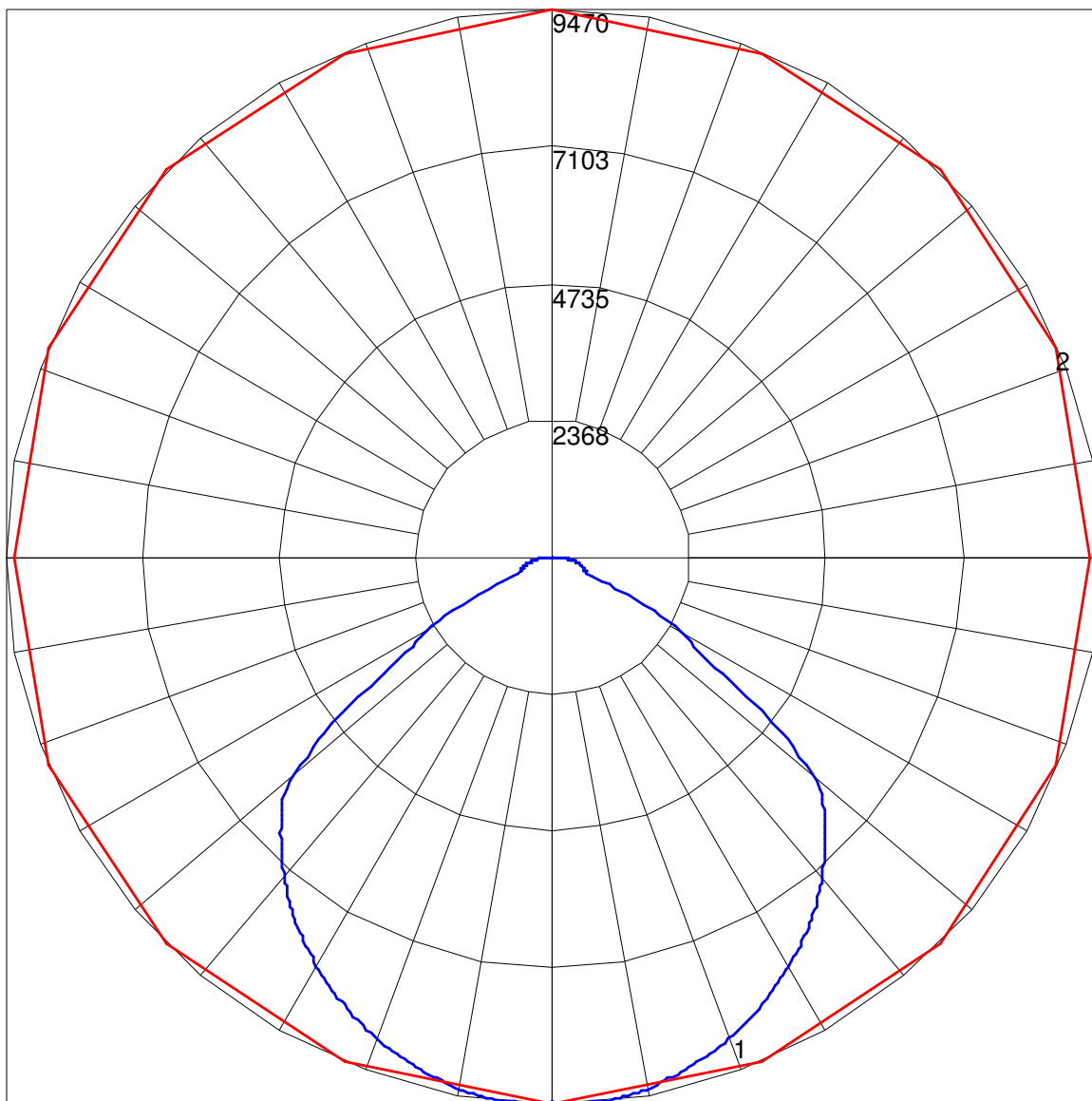
|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H  | 26.3 | 27.6 | 26.7 | 27.9 | 28.3 | 24.2 | 25.6 | 24.6 | 25.9 | 26.3 |
|    | 3H  | 28.1 | 29.2 | 28.5 | 29.6 | 30.0 | 24.4 | 25.5 | 24.8 | 25.9 | 26.3 |
|    | 4H  | 28.7 | 29.7 | 29.1 | 30.1 | 30.5 | 24.6 | 25.5 | 25.0 | 25.9 | 26.4 |
|    | 6H  | 29.1 | 29.9 | 29.5 | 30.3 | 30.8 | 24.8 | 25.6 | 25.2 | 26.0 | 26.5 |
|    | 8H  | 29.1 | 29.9 | 29.6 | 30.4 | 30.8 | 24.8 | 25.6 | 25.3 | 26.1 | 26.5 |
|    | 12H | 29.2 | 29.9 | 29.7 | 30.4 | 30.8 | 24.9 | 25.6 | 25.4 | 26.1 | 26.6 |

|    |     |      |      |      |      |      |      |      |      |      |      |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H  | 28.7 | 29.5 | 29.1 | 29.9 | 30.4 | 24.7 | 25.5 | 25.2 | 26.0 | 26.4 |
|    | 6H  | 29.0 | 29.7 | 29.5 | 30.2 | 30.6 | 25.0 | 25.7 | 25.5 | 26.1 | 26.6 |
|    | 8H  | 29.1 | 29.7 | 29.6 | 30.2 | 30.7 | 25.1 | 25.7 | 25.6 | 26.2 | 26.7 |
|    | 12H | 29.2 | 29.7 | 29.7 | 30.2 | 30.8 | 25.3 | 25.8 | 25.8 | 26.3 | 26.9 |

|     |    |      |      |      |      |      |      |      |      |      |      |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 28.6 | 29.4 | 29.1 | 29.8 | 30.3 | 24.8 | 25.5 | 25.2 | 25.9 | 26.4 |
|     | 6H | 29.0 | 29.6 | 29.5 | 30.1 | 30.6 | 25.0 | 25.6 | 25.5 | 26.1 | 26.6 |
|     | 8H | 29.1 | 29.6 | 29.6 | 30.1 | 30.7 | 25.2 | 25.7 | 25.7 | 26.2 | 26.8 |

Maximum UGR = 30.8

POLAR GRAPH



Maximum Candela = 9470.092 Located At Horizontal Angle = 90, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)