

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-4-L240-850-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] WILLIAMS INDOOR  
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
[LUMCAT] GS-4-L240-850-HP-DIM-UNV  
[LUMINAIRE] White aluminum housing, prismatic lense enclosure  
[LAMP] 448 White LEDs  
[BALLAST] 0-10V LED DRIVER

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 26159           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 155             |
| Total Luminaire Watts           | 169             |
| 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)         | 3.36 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                  | 25894            | 26695             | 27178             |
| 55                  | 24784            | 25782             | 18545             |
| 65                  | 22481            | 15724             | 5097              |
| 75                  | 18404            | 5059              | 5124              |
| 85                  | 8069             | 6935              | 6458              |

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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  | 9916.179   | 9916.179    | 9916.179    | 9916.179    | 9916.179    |
| 0.5  | 9793.681   | 9922.408    | 9944.209    | 9928.637    | 9948.361    |
| 1.0  | 9796.795   | 9923.446    | 9945.247    | 9928.637    | 9947.323    |
| 1.5  | 9800.947   | 9922.408    | 9946.285    | 9925.523    | 9944.209    |
| 2.0  | 9799.909   | 9924.484    | 9944.209    | 9926.561    | 9945.247    |
| 2.5  | 9797.833   | 9922.408    | 9945.247    | 9924.484    | 9942.133    |
| 3.0  | 9796.795   | 9918.256    | 9943.171    | 9925.523    | 9944.209    |
| 3.5  | 9793.681   | 9912.027    | 9942.133    | 9925.523    | 9944.209    |
| 4.0  | 9786.414   | 9908.913    | 9939.018    | 9929.675    | 9946.285    |
| 4.5  | 9777.071   | 9902.684    | 9934.866    | 9931.751    | 9948.361    |
| 5.0  | 9764.613   | 9895.417    | 9931.751    | 9929.675    | 9945.247    |
| 5.5  | 9755.270   | 9889.188    | 9927.599    | 9926.561    | 9941.094    |
| 6.0  | 9748.003   | 9882.959    | 9922.408    | 9919.294    | 9932.789    |
| 6.5  | 9737.622   | 9873.616    | 9917.218    | 9912.027    | 9921.370    |
| 7.0  | 9724.126   | 9863.235    | 9906.836    | 9901.646    | 9907.874    |
| 7.5  | 9712.707   | 9853.892    | 9897.493    | 9888.150    | 9893.341    |
| 8.0  | 9702.326   | 9842.473    | 9883.998    | 9873.616    | 9879.845    |
| 8.5  | 9697.135   | 9830.015    | 9871.540    | 9859.083    | 9869.464    |
| 9.0  | 9688.830   | 9816.519    | 9858.044    | 9844.549    | 9857.006    |
| 9.5  | 9677.410   | 9806.138    | 9846.625    | 9834.168    | 9847.663    |
| 10.0 | 9664.953   | 9796.795    | 9834.168    | 9821.710    | 9835.206    |
| 10.5 | 9653.534   | 9786.414    | 9819.634    | 9806.138    | 9820.672    |
| 11.0 | 9641.076   | 9776.032    | 9803.024    | 9788.490    | 9805.100    |
| 11.5 | 9630.695   | 9764.613    | 9786.414    | 9771.880    | 9781.223    |
| 12.0 | 9610.970   | 9750.079    | 9772.918    | 9750.079    | 9750.079    |
| 12.5 | 9589.170   | 9735.546    | 9754.232    | 9721.012    | 9725.164    |
| 13.0 | 9567.369   | 9718.936    | 9734.507    | 9691.944    | 9698.173    |
| 13.5 | 9544.530   | 9696.097    | 9714.783    | 9667.029    | 9668.067    |
| 14.0 | 9519.615   | 9674.296    | 9694.021    | 9639.000    | 9640.038    |
| 14.5 | 9486.395   | 9652.495    | 9669.105    | 9610.970    | 9616.161    |
| 15.0 | 9462.518   | 9630.695    | 9645.229    | 9582.941    | 9597.475    |
| 15.5 | 9449.023   | 9606.818    | 9617.199    | 9555.950    | 9578.789    |
| 16.0 | 9429.298   | 9579.827    | 9589.170    | 9532.073    | 9555.950    |
| 16.5 | 9408.536   | 9554.912    | 9555.950    | 9508.196    | 9535.187    |
| 17.0 | 9395.040   | 9528.958    | 9526.882    | 9484.319    | 9511.310    |
| 17.5 | 9373.240   | 9504.043    | 9495.738    | 9457.328    | 9488.472    |
| 18.0 | 9348.325   | 9474.976    | 9462.518    | 9432.413    | 9461.480    |
| 18.5 | 9321.333   | 9446.947    | 9433.451    | 9402.307    | 9426.184    |
| 19.0 | 9289.151   | 9419.955    | 9397.116    | 9371.163    | 9392.964    |
| 19.5 | 9253.855   | 9391.926    | 9362.858    | 9341.058    | 9365.973    |
| 20.0 | 9220.635   | 9363.896    | 9329.638    | 9308.876    | 9336.905    |
| 20.5 | 9188.453   | 9333.791    | 9299.533    | 9277.732    | 9307.838    |
| 21.0 | 9157.309   | 9301.609    | 9268.389    | 9248.664    | 9276.694    |
| 21.5 | 9120.975   | 9269.427    | 9236.207    | 9219.597    | 9242.436    |
| 22.0 | 9085.679   | 9237.245    | 9204.025    | 9188.453    | 9208.178    |
| 22.5 | 9055.573   | 9202.987    | 9169.767    | 9156.271    | 9177.034    |
| 23.0 | 9025.467   | 9167.691    | 9131.356    | 9118.899    | 9139.661    |
| 23.5 | 8995.362   | 9128.242    | 9093.984    | 9085.679    | 9106.441    |
| 24.0 | 8957.989   | 9092.946    | 9053.497    | 9052.459    | 9070.107    |
| 24.5 | 8925.807   | 9057.649    | 9011.972    | 9015.086    | 9035.849    |
| 25.0 | 8890.511   | 9014.048    | 8967.332    | 8980.828    | 8996.400    |
| 25.5 | 8850.024   | 8977.714    | 8927.884    | 8942.417    | 8959.027    |
| 26.0 | 8803.308   | 8941.379    | 8889.473    | 8904.007    | 8917.502    |
| 26.5 | 8752.440   | 8893.625    | 8852.100    | 8863.520    | 8877.015    |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 27.0 | 8705.725 | 8846.910 | 8811.613 | 8824.071 | 8836.528 |
| 27.5 | 8660.047 | 8798.118 | 8774.241 | 8784.622 | 8797.080 |
| 28.0 | 8616.446 | 8749.326 | 8733.754 | 8747.250 | 8757.631 |
| 28.5 | 8579.073 | 8700.534 | 8691.191 | 8706.763 | 8715.068 |
| 29.0 | 8537.548 | 8652.780 | 8647.590 | 8659.009 | 8673.543 |
| 29.5 | 8496.023 | 8605.026 | 8603.988 | 8615.408 | 8636.170 |
| 30.0 | 8454.498 | 8552.082 | 8557.273 | 8569.730 | 8592.569 |
| 30.5 | 8412.973 | 8503.290 | 8514.709 | 8523.014 | 8553.120 |
| 31.0 | 8368.334 | 8449.307 | 8472.146 | 8479.413 | 8509.519 |
| 31.5 | 8318.504 | 8396.363 | 8427.507 | 8434.774 | 8465.917 |
| 32.0 | 8266.597 | 8348.609 | 8380.791 | 8389.096 | 8420.240 |
| 32.5 | 8212.615 | 8297.741 | 8336.152 | 8348.609 | 8372.486 |
| 33.0 | 8156.556 | 8247.911 | 8295.665 | 8303.970 | 8328.885 |
| 33.5 | 8102.573 | 8194.967 | 8248.949 | 8258.292 | 8289.436 |
| 34.0 | 8047.553 | 8138.908 | 8198.081 | 8210.538 | 8243.759 |
| 34.5 | 7995.646 | 8083.887 | 8146.175 | 8162.785 | 8196.005 |
| 35.0 | 7947.893 | 8026.790 | 8089.078 | 8116.069 | 8145.137 |
| 35.5 | 7903.253 | 7969.693 | 8023.676 | 8067.277 | 8099.459 |
| 36.0 | 7849.271 | 7908.444 | 7970.731 | 8018.485 | 8051.705 |
| 36.5 | 7793.212 | 7847.194 | 7919.863 | 7967.617 | 8000.837 |
| 37.0 | 7728.848 | 7785.945 | 7863.804 | 7917.787 | 7951.007 |
| 37.5 | 7659.294 | 7725.734 | 7806.707 | 7867.957 | 7898.063 |
| 38.0 | 7592.854 | 7666.560 | 7755.839 | 7816.051 | 7843.042 |
| 38.5 | 7525.375 | 7606.349 | 7707.047 | 7762.068 | 7782.831 |
| 39.0 | 7466.202 | 7546.138 | 7649.950 | 7703.933 | 7726.772 |
| 39.5 | 7410.143 | 7481.774 | 7586.625 | 7642.684 | 7671.751 |
| 40.0 | 7352.008 | 7414.296 | 7523.299 | 7584.548 | 7614.654 |
| 40.5 | 7291.797 | 7346.818 | 7463.088 | 7525.375 | 7560.672 |
| 41.0 | 7235.738 | 7279.339 | 7401.838 | 7461.012 | 7505.651 |
| 41.5 | 7167.222 | 7210.823 | 7336.436 | 7401.838 | 7442.325 |
| 42.0 | 7091.439 | 7143.345 | 7269.996 | 7338.513 | 7377.961 |
| 42.5 | 7009.427 | 7074.829 | 7202.518 | 7275.187 | 7314.636 |
| 43.0 | 6929.491 | 7005.274 | 7138.154 | 7211.861 | 7253.386 |
| 43.5 | 6854.746 | 6931.567 | 7071.714 | 7147.497 | 7193.175 |
| 44.0 | 6788.306 | 6862.013 | 7011.503 | 7085.210 | 7137.116 |
| 44.5 | 6733.285 | 6793.496 | 6947.139 | 7029.151 | 7076.905 |
| 45.0 | 6676.188 | 6720.828 | 6882.775 | 6971.016 | 7007.350 |
| 45.5 | 6613.901 | 6650.235 | 6813.221 | 6901.462 | 6944.025 |
| 46.0 | 6540.194 | 6577.566 | 6735.361 | 6824.640 | 6875.508 |
| 46.5 | 6464.411 | 6501.783 | 6653.349 | 6761.315 | 6810.107 |
| 47.0 | 6384.475 | 6429.114 | 6583.795 | 6695.913 | 6746.781 |
| 47.5 | 6312.844 | 6359.560 | 6514.241 | 6627.396 | 6679.303 |
| 48.0 | 6247.442 | 6292.082 | 6440.534 | 6561.994 | 6609.748 |
| 48.5 | 6183.078 | 6230.832 | 6367.865 | 6497.631 | 6526.698 |
| 49.0 | 6114.562 | 6146.744 | 6299.349 | 6431.191 | 6420.809 |
| 49.5 | 6040.855 | 6057.465 | 6231.870 | 6364.750 | 6298.310 |
| 50.0 | 5948.462 | 5982.720 | 6161.278 | 6293.120 | 6150.897 |
| 50.5 | 5864.374 | 5917.318 | 6085.495 | 6216.298 | 5971.301 |
| 51.0 | 5785.476 | 5839.459 | 6009.711 | 6122.867 | 5764.714 |
| 51.5 | 5716.960 | 5763.676 | 5930.814 | 6008.673 | 5566.432 |
| 52.0 | 5651.558 | 5681.664 | 5856.069 | 5875.793 | 5406.560 |
| 52.5 | 5576.813 | 5602.766 | 5780.286 | 5703.464 | 5254.994 |
| 53.0 | 5490.648 | 5517.640 | 5702.426 | 5506.220 | 5027.644 |
| 53.5 | 5402.408 | 5438.742 | 5627.681 | 5300.671 | 4721.397 |
| 54.0 | 5320.396 | 5367.111 | 5548.783 | 5127.304 | 4371.549 |
| 54.5 | 5251.879 | 5288.214 | 5468.848 | 4977.814 | 4081.911 |

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**CANDELA TABULATION - (Cont.)**

|      |          |          |          |          |          |
|------|----------|----------|----------|----------|----------|
| 55.0 | 5183.363 | 5195.821 | 5392.026 | 4790.951 | 3878.439 |
| 55.5 | 5096.160 | 5110.694 | 5313.129 | 4525.191 | 3723.758 |
| 56.0 | 5001.691 | 5042.178 | 5236.308 | 4194.029 | 3573.230 |
| 56.5 | 4922.793 | 4969.509 | 5158.448 | 3885.706 | 3385.329 |
| 57.0 | 4856.353 | 4888.535 | 5076.436 | 3667.699 | 3195.352 |
| 57.5 | 4781.608 | 4798.218 | 4986.119 | 3511.980 | 3037.557 |
| 58.0 | 4695.444 | 4709.978 | 4889.573 | 3385.329 | 2939.973 |
| 58.5 | 4598.898 | 4625.889 | 4771.227 | 3230.648 | 2878.723 |
| 59.0 | 4521.039 | 4543.877 | 4635.233 | 3018.870 | 2827.855 |
| 59.5 | 4445.255 | 4455.637 | 4480.552 | 2843.427 | 2756.225 |
| 60.0 | 4347.672 | 4363.244 | 4297.842 | 2739.614 | 2660.717 |
| 60.5 | 4254.240 | 4284.346 | 4133.818 | 2678.365 | 2539.256 |
| 61.0 | 4170.152 | 4198.182 | 3979.137 | 2626.459 | 2388.728 |
| 61.5 | 4096.445 | 4108.903 | 3799.541 | 2550.676 | 2229.895 |
| 62.0 | 4008.204 | 4014.433 | 3604.373 | 2453.092 | 2071.061 |
| 62.5 | 3899.201 | 3918.926 | 3352.109 | 2325.402 | 1860.322 |
| 63.0 | 3803.694 | 3836.914 | 3067.662 | 2166.569 | 1543.693 |
| 63.5 | 3727.910 | 3755.940 | 2837.198 | 2012.926 | 1288.314 |
| 64.0 | 3635.517 | 3661.470 | 2680.441 | 1859.284 | 1136.748 |
| 64.5 | 3547.277 | 3578.420 | 2561.057 | 1630.896 | 997.743  |
| 65.0 | 3464.226 | 3493.294 | 2422.986 | 1331.916 | 785.446  |
| 65.5 | 3354.185 | 3396.748 | 2249.619 | 1125.329 | 680.595  |
| 66.0 | 3260.754 | 3307.469 | 2104.281 | 999.196  | 657.134  |
| 66.5 | 3179.780 | 3226.496 | 2017.079 | 813.372  | 646.337  |
| 67.0 | 3091.539 | 3136.179 | 1948.562 | 681.634  | 636.890  |
| 67.5 | 2999.146 | 3046.900 | 1876.932 | 633.984  | 627.547  |
| 68.0 | 2903.638 | 2965.926 | 1784.539 | 620.903  | 618.827  |
| 68.5 | 2820.588 | 2870.418 | 1653.735 | 610.522  | 610.314  |
| 69.0 | 2739.614 | 2784.254 | 1504.245 | 600.867  | 601.802  |
| 69.5 | 2649.298 | 2696.013 | 1376.555 | 591.836  | 593.081  |
| 70.0 | 2561.057 | 2614.001 | 1201.112 | 583.219  | 584.465  |
| 70.5 | 2475.930 | 2520.570 | 976.046  | 574.395  | 576.160  |
| 71.0 | 2401.185 | 2422.986 | 831.020  | 566.194  | 567.855  |
| 71.5 | 2315.021 | 2321.250 | 721.601  | 557.993  | 558.512  |
| 72.0 | 2228.857 | 2213.285 | 596.403  | 548.753  | 549.480  |
| 72.5 | 2143.730 | 2075.214 | 534.531  | 539.929  | 539.826  |
| 73.0 | 2063.794 | 1930.914 | 518.440  | 531.001  | 529.340  |
| 73.5 | 1983.859 | 1807.377 | 507.747  | 521.451  | 518.752  |
| 74.0 | 1903.923 | 1676.573 | 497.262  | 511.173  | 507.125  |
| 74.5 | 1825.025 | 1533.312 | 487.400  | 500.065  | 495.601  |
| 75.0 | 1736.785 | 1350.602 | 477.434  | 488.750  | 483.559  |
| 75.5 | 1655.811 | 1222.912 | 467.883  | 477.123  | 470.998  |
| 76.0 | 1574.837 | 1129.481 | 458.644  | 465.080  | 458.229  |
| 76.5 | 1488.673 | 1027.329 | 448.678  | 452.727  | 445.045  |
| 77.0 | 1402.508 | 918.949  | 438.712  | 440.062  | 431.964  |
| 77.5 | 1315.306 | 848.357  | 428.019  | 427.293  | 418.469  |
| 78.0 | 1217.722 | 762.296  | 416.911  | 414.108  | 404.973  |
| 78.5 | 1136.748 | 654.538  | 404.973  | 400.301  | 391.062  |
| 79.0 | 1065.117 | 571.385  | 392.931  | 386.806  | 377.463  |
| 79.5 | 990.787  | 451.066  | 380.577  | 373.310  | 363.552  |
| 80.0 | 915.731  | 387.740  | 367.808  | 359.399  | 349.329  |
| 80.5 | 840.571  | 328.463  | 355.039  | 345.073  | 335.315  |
| 81.0 | 764.268  | 308.323  | 341.751  | 330.851  | 322.650  |
| 81.5 | 689.004  | 295.762  | 327.840  | 316.836  | 310.503  |
| 82.0 | 621.215  | 282.682  | 313.306  | 302.614  | 294.309  |
| 82.5 | 560.692  | 269.498  | 298.773  | 288.495  | 279.983  |

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**CANDELA TABULATION - (Cont.)**

|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 83.0  | 495.601 | 256.625 | 283.305 | 273.961 | 266.072 |
| 83.5  | 432.068 | 243.233 | 267.940 | 259.635 | 251.849 |
| 84.0  | 370.715 | 229.530 | 252.057 | 244.686 | 237.212 |
| 84.5  | 313.410 | 214.996 | 236.485 | 229.114 | 221.951 |
| 85.0  | 256.417 | 200.358 | 220.394 | 212.297 | 205.238 |
| 85.5  | 226.831 | 184.786 | 203.161 | 194.233 | 188.108 |
| 86.0  | 194.337 | 168.695 | 184.994 | 175.236 | 169.526 |
| 86.5  | 147.102 | 151.878 | 164.647 | 154.681 | 150.736 |
| 87.0  | 122.395 | 134.334 | 143.054 | 133.192 | 130.285 |
| 87.5  | 106.823 | 116.062 | 120.007 | 111.391 | 108.277 |
| 88.0  | 91.355  | 96.027  | 96.961  | 87.410  | 83.569  |
| 88.5  | 74.434  | 74.434  | 73.499  | 61.457  | 56.682  |
| 89.0  | 54.398  | 53.671  | 50.038  | 39.864  | 36.646  |
| 89.5  | 34.051  | 36.023  | 32.182  | 27.303  | 26.472  |
| 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-4-L240-850-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-4-L240-850-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-4-L240-850-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-4-L240-850-HP-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 3652.38  | N.A.  | 14.00  |
| 0-30    | 7789.91  | N.A.  | 29.80  |
| 0-40    | 12836.17 | N.A.  | 49.10  |
| 0-60    | 22541.21 | N.A.  | 86.20  |
| 0-80    | 25923.26 | N.A.  | 99.10  |
| 0-90    | 26158.74 | N.A.  | 100.00 |
| 10-90   | 25216.9  | N.A.  | 96.40  |
| 20-40   | 9183.79  | N.A.  | 35.10  |
| 20-50   | 14464.37 | N.A.  | 55.30  |
| 40-70   | 12146.23 | N.A.  | 46.40  |
| 60-80   | 3382.05  | N.A.  | 12.90  |
| 70-80   | 940.86   | N.A.  | 3.60   |
| 80-90   | 235.48   | 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   | 26158.74 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 941.84  |
| 10-20   | 2710.55 |
| 20-30   | 4137.53 |
| 30-40   | 5046.26 |
| 40-50   | 5280.58 |
| 50-60   | 4424.46 |
| 60-70   | 2441.19 |
| 70-80   | 940.86  |
| 80-90   | 235.48  |
| 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-4-L240-850-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-4-L240-850-HP-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

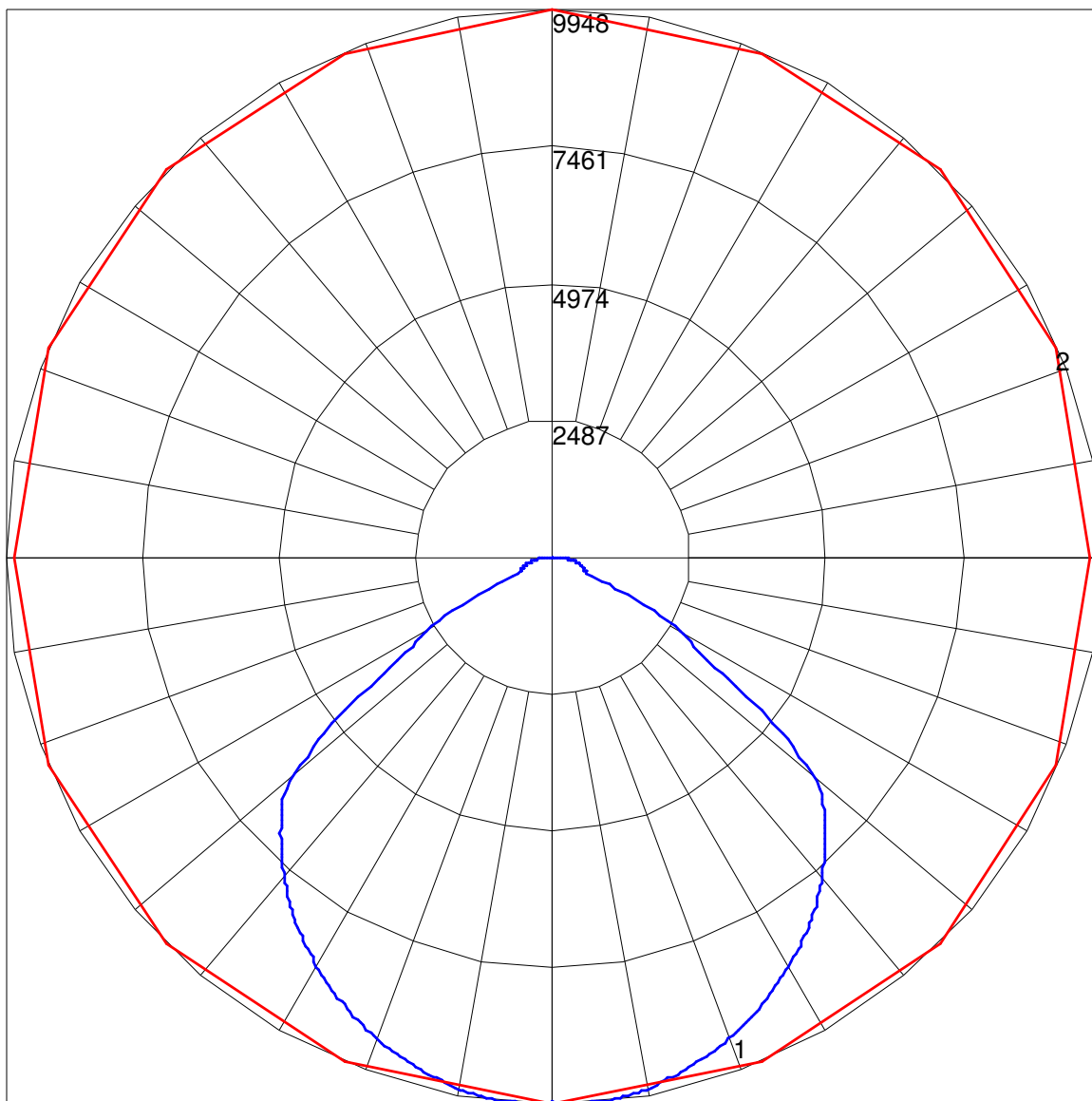
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
|-----------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| X=2H      | Y=2H | 23.7                 | 25.3 | 24.1 | 25.6 | 25.9 | 21.3               | 22.9 | 21.7 | 23.2 | 23.5 |
|           | 3H   | 25.4                 | 26.8 | 25.8 | 27.1 | 27.5 | 21.4               | 22.8 | 21.8 | 23.1 | 23.5 |
|           | 4H   | 25.9                 | 27.2 | 26.3 | 27.6 | 28.0 | 21.5               | 22.8 | 21.9 | 23.2 | 23.5 |
|           | 6H   | 26.2                 | 27.4 | 26.6 | 27.8 | 28.2 | 21.6               | 22.8 | 22.0 | 23.2 | 23.6 |
|           | 8H   | 26.3                 | 27.4 | 26.7 | 27.8 | 28.2 | 21.7               | 22.8 | 22.1 | 23.2 | 23.6 |
|           | 12H  | 26.3                 | 27.4 | 26.7 | 27.8 | 28.2 | 21.7               | 22.8 | 22.2 | 23.2 | 23.6 |
| 4H        | 2H   | 23.9                 | 25.2 | 24.3 | 25.6 | 26.0 | 21.9               | 23.2 | 22.3 | 23.6 | 23.9 |
|           | 3H   | 25.8                 | 26.9 | 26.2 | 27.3 | 27.7 | 22.1               | 23.2 | 22.5 | 23.6 | 24.0 |
|           | 4H   | 26.4                 | 27.4 | 26.8 | 27.8 | 28.2 | 22.2               | 23.2 | 22.7 | 23.6 | 24.0 |
|           | 6H   | 26.7                 | 27.6 | 27.2 | 28.0 | 28.5 | 22.4               | 23.3 | 22.9 | 23.7 | 24.2 |
|           | 8H   | 26.8                 | 27.6 | 27.3 | 28.0 | 28.5 | 22.5               | 23.3 | 23.0 | 23.7 | 24.2 |
|           | 12H  | 26.8                 | 27.5 | 27.3 | 28.0 | 28.5 | 22.6               | 23.3 | 23.1 | 23.8 | 24.3 |
| 8H        | 4H   | 26.3                 | 27.1 | 26.8 | 27.6 | 28.0 | 22.4               | 23.2 | 22.9 | 23.6 | 24.1 |
|           | 6H   | 26.7                 | 27.3 | 27.2 | 27.8 | 28.3 | 22.7               | 23.3 | 23.2 | 23.8 | 24.3 |
|           | 8H   | 26.8                 | 27.4 | 27.3 | 27.9 | 28.4 | 22.8               | 23.4 | 23.3 | 23.9 | 24.4 |
|           | 12H  | 26.9                 | 27.4 | 27.4 | 27.9 | 28.4 | 23.0               | 23.5 | 23.5 | 24.0 | 24.6 |
| 12H       | 4H   | 26.3                 | 27.0 | 26.8 | 27.5 | 28.0 | 22.4               | 23.1 | 22.9 | 23.6 | 24.1 |
|           | 6H   | 26.7                 | 27.3 | 27.2 | 27.7 | 28.3 | 22.7               | 23.3 | 23.2 | 23.7 | 24.3 |
|           | 8H   | 26.8                 | 27.3 | 27.3 | 27.8 | 28.3 | 22.9               | 23.4 | 23.4 | 23.9 | 24.5 |

Maximum UGR = 28.5

POLAR GRAPH



Maximum Candela = 9948.361 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.)