



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L120-840-HE-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2023-03-13
[TESTDATE] 1/6/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L120-840-HE-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.
[FILEGENINFO] 1.10000

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 12698 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 149 |
| Total Luminaire Watts | 85 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 25336 | 26120 | 26592 |
| 55 | 24250 | 25226 | 18145 |
| 65 | 21996 | 15385 | 4987 |
| 75 | 18007 | 4950 | 5014 |
| 85 | 7895 | 6786 | 6319 |

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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 | 4813.681 | 4813.681 | 4813.681 | 4813.681 | 4813.681 |
| 0.5 | 4754.215 | 4816.705 | 4827.287 | 4819.728 | 4829.303 |
| 1.0 | 4755.727 | 4817.208 | 4827.791 | 4819.728 | 4828.799 |
| 1.5 | 4757.743 | 4816.705 | 4828.295 | 4818.216 | 4827.287 |
| 2.0 | 4757.239 | 4817.712 | 4827.287 | 4818.720 | 4827.791 |
| 2.5 | 4756.231 | 4816.705 | 4827.791 | 4817.712 | 4826.279 |
| 3.0 | 4755.727 | 4814.689 | 4826.783 | 4818.216 | 4827.287 |
| 3.5 | 4754.215 | 4811.665 | 4826.279 | 4818.216 | 4827.287 |
| 4.0 | 4750.688 | 4810.153 | 4824.768 | 4820.232 | 4828.295 |
| 4.5 | 4746.152 | 4807.130 | 4822.752 | 4821.240 | 4829.303 |
| 5.0 | 4740.105 | 4803.602 | 4821.240 | 4820.232 | 4827.791 |
| 5.5 | 4735.569 | 4800.578 | 4819.224 | 4818.720 | 4825.776 |
| 6.0 | 4732.042 | 4797.555 | 4816.705 | 4815.193 | 4821.744 |
| 6.5 | 4727.002 | 4793.019 | 4814.185 | 4811.665 | 4816.201 |
| 7.0 | 4720.451 | 4787.980 | 4809.145 | 4806.626 | 4809.649 |
| 7.5 | 4714.908 | 4783.444 | 4804.610 | 4800.074 | 4802.594 |
| 8.0 | 4709.868 | 4777.901 | 4798.059 | 4793.019 | 4796.043 |
| 8.5 | 4707.349 | 4771.853 | 4792.011 | 4785.964 | 4791.003 |
| 9.0 | 4703.317 | 4765.302 | 4785.460 | 4778.909 | 4784.956 |
| 9.5 | 4697.774 | 4760.263 | 4779.917 | 4773.869 | 4780.421 |
| 10.0 | 4691.726 | 4755.727 | 4773.869 | 4767.822 | 4774.373 |
| 10.5 | 4686.183 | 4750.688 | 4766.814 | 4760.263 | 4767.318 |
| 11.0 | 4680.135 | 4745.648 | 4758.751 | 4751.696 | 4759.759 |
| 11.5 | 4675.096 | 4740.105 | 4750.688 | 4743.633 | 4748.168 |
| 12.0 | 4665.521 | 4733.050 | 4744.136 | 4733.050 | 4733.050 |
| 12.5 | 4654.938 | 4725.994 | 4735.065 | 4718.939 | 4720.955 |
| 13.0 | 4644.355 | 4717.931 | 4725.491 | 4704.829 | 4707.852 |
| 13.5 | 4633.269 | 4706.845 | 4715.916 | 4692.734 | 4693.238 |
| 14.0 | 4621.174 | 4696.262 | 4705.837 | 4679.128 | 4679.632 |
| 14.5 | 4605.048 | 4685.679 | 4693.742 | 4665.521 | 4668.041 |
| 15.0 | 4593.457 | 4675.096 | 4682.151 | 4651.915 | 4658.970 |
| 15.5 | 4586.906 | 4663.505 | 4668.545 | 4638.812 | 4649.899 |
| 16.0 | 4577.331 | 4650.403 | 4654.938 | 4627.221 | 4638.812 |
| 16.5 | 4567.252 | 4638.308 | 4638.812 | 4615.631 | 4628.733 |
| 17.0 | 4560.701 | 4625.709 | 4624.702 | 4604.040 | 4617.142 |
| 17.5 | 4550.118 | 4613.615 | 4609.583 | 4590.937 | 4606.056 |
| 18.0 | 4538.023 | 4599.504 | 4593.457 | 4578.843 | 4592.953 |
| 18.5 | 4524.920 | 4585.898 | 4579.347 | 4564.228 | 4575.819 |
| 19.0 | 4509.298 | 4572.795 | 4561.708 | 4549.110 | 4559.693 |
| 19.5 | 4492.164 | 4559.189 | 4545.078 | 4534.495 | 4546.590 |
| 20.0 | 4476.038 | 4545.582 | 4528.952 | 4518.873 | 4532.480 |
| 20.5 | 4460.416 | 4530.968 | 4514.338 | 4503.755 | 4518.369 |
| 21.0 | 4445.297 | 4515.346 | 4499.219 | 4489.644 | 4503.251 |
| 21.5 | 4427.659 | 4499.723 | 4483.597 | 4475.534 | 4486.621 |
| 22.0 | 4410.525 | 4484.101 | 4467.975 | 4460.416 | 4469.991 |
| 22.5 | 4395.911 | 4467.471 | 4451.345 | 4444.793 | 4454.872 |
| 23.0 | 4381.296 | 4450.337 | 4432.699 | 4426.651 | 4436.730 |
| 23.5 | 4366.682 | 4431.187 | 4414.557 | 4410.525 | 4420.604 |
| 24.0 | 4348.540 | 4414.053 | 4394.903 | 4394.399 | 4402.966 |
| 24.5 | 4332.918 | 4396.919 | 4374.745 | 4376.257 | 4386.336 |
| 25.0 | 4315.783 | 4375.753 | 4353.075 | 4359.627 | 4367.186 |
| 25.5 | 4296.130 | 4358.115 | 4333.925 | 4340.981 | 4349.044 |
| 26.0 | 4273.452 | 4340.477 | 4315.279 | 4322.335 | 4328.886 |
| 26.5 | 4248.759 | 4317.295 | 4297.137 | 4302.681 | 4309.232 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 4226.081 | 4294.618 | 4277.484 | 4283.531 | 4289.578 |
| 27.5 | 4203.908 | 4270.932 | 4259.342 | 4264.381 | 4270.428 |
| 28.0 | 4182.742 | 4247.247 | 4239.688 | 4246.239 | 4251.278 |
| 28.5 | 4164.600 | 4223.561 | 4219.026 | 4226.585 | 4230.617 |
| 29.0 | 4144.442 | 4200.380 | 4197.860 | 4203.404 | 4210.459 |
| 29.5 | 4124.284 | 4177.199 | 4176.695 | 4182.238 | 4192.317 |
| 30.0 | 4104.127 | 4151.497 | 4154.017 | 4160.064 | 4171.151 |
| 30.5 | 4083.969 | 4127.812 | 4133.355 | 4137.387 | 4152.001 |
| 31.0 | 4062.299 | 4101.607 | 4112.694 | 4116.221 | 4130.836 |
| 31.5 | 4038.110 | 4075.906 | 4091.024 | 4094.552 | 4109.670 |
| 32.0 | 4012.913 | 4052.724 | 4068.346 | 4072.378 | 4087.496 |
| 32.5 | 3986.707 | 4028.031 | 4046.677 | 4052.724 | 4064.315 |
| 33.0 | 3959.494 | 4003.842 | 4027.023 | 4031.055 | 4043.149 |
| 33.5 | 3933.289 | 3978.140 | 4004.345 | 4008.881 | 4023.999 |
| 34.0 | 3906.580 | 3950.927 | 3979.652 | 3985.700 | 4001.826 |
| 34.5 | 3881.383 | 3924.218 | 3954.455 | 3962.518 | 3978.644 |
| 35.0 | 3858.201 | 3896.501 | 3926.738 | 3939.841 | 3953.951 |
| 35.5 | 3836.532 | 3868.784 | 3894.989 | 3916.155 | 3931.777 |
| 36.0 | 3810.327 | 3839.052 | 3869.288 | 3892.470 | 3908.596 |
| 36.5 | 3783.114 | 3809.319 | 3844.595 | 3867.776 | 3883.903 |
| 37.0 | 3751.869 | 3779.586 | 3817.382 | 3843.587 | 3859.713 |
| 37.5 | 3718.105 | 3750.357 | 3789.665 | 3819.398 | 3834.012 |
| 38.0 | 3685.852 | 3721.632 | 3764.972 | 3794.201 | 3807.303 |
| 38.5 | 3653.096 | 3692.404 | 3741.286 | 3767.995 | 3778.074 |
| 39.0 | 3624.371 | 3663.175 | 3713.569 | 3739.774 | 3750.861 |
| 39.5 | 3597.158 | 3631.930 | 3682.829 | 3710.042 | 3724.152 |
| 40.0 | 3568.937 | 3599.174 | 3652.088 | 3681.821 | 3696.435 |
| 40.5 | 3539.708 | 3566.417 | 3622.859 | 3653.096 | 3670.230 |
| 41.0 | 3512.495 | 3533.661 | 3593.127 | 3621.851 | 3643.521 |
| 41.5 | 3479.235 | 3500.401 | 3561.378 | 3593.127 | 3612.780 |
| 42.0 | 3442.447 | 3467.644 | 3529.126 | 3562.386 | 3581.536 |
| 42.5 | 3402.635 | 3434.384 | 3496.369 | 3531.645 | 3550.795 |
| 43.0 | 3363.832 | 3400.620 | 3465.125 | 3500.905 | 3521.062 |
| 43.5 | 3327.548 | 3364.840 | 3432.872 | 3469.660 | 3491.834 |
| 44.0 | 3295.295 | 3331.075 | 3403.643 | 3439.423 | 3464.621 |
| 44.5 | 3268.586 | 3297.815 | 3372.399 | 3412.210 | 3435.392 |
| 45.0 | 3240.869 | 3262.539 | 3341.154 | 3383.989 | 3401.627 |
| 45.5 | 3210.632 | 3228.270 | 3307.390 | 3350.225 | 3370.887 |
| 46.0 | 3174.852 | 3192.994 | 3269.594 | 3312.933 | 3337.627 |
| 46.5 | 3138.064 | 3156.206 | 3229.782 | 3282.193 | 3305.878 |
| 47.0 | 3099.261 | 3120.930 | 3196.018 | 3250.444 | 3275.137 |
| 47.5 | 3064.488 | 3087.166 | 3162.254 | 3217.184 | 3242.381 |
| 48.0 | 3032.740 | 3054.410 | 3126.474 | 3185.435 | 3208.617 |
| 48.5 | 3001.495 | 3024.677 | 3091.197 | 3154.191 | 3168.301 |
| 49.0 | 2968.235 | 2983.857 | 3057.937 | 3121.938 | 3116.899 |
| 49.5 | 2932.455 | 2940.518 | 3025.181 | 3089.686 | 3057.433 |
| 50.0 | 2887.604 | 2904.234 | 2990.912 | 3054.913 | 2985.873 |
| 50.5 | 2846.784 | 2872.485 | 2954.125 | 3017.622 | 2898.691 |
| 51.0 | 2808.484 | 2834.690 | 2917.337 | 2972.267 | 2798.406 |
| 51.5 | 2775.224 | 2797.902 | 2879.037 | 2916.833 | 2702.152 |
| 52.0 | 2743.476 | 2758.090 | 2842.753 | 2852.328 | 2624.545 |
| 52.5 | 2707.192 | 2719.790 | 2805.965 | 2768.673 | 2550.969 |
| 53.0 | 2665.364 | 2678.467 | 2768.169 | 2672.923 | 2440.605 |
| 53.5 | 2622.529 | 2640.167 | 2731.885 | 2573.142 | 2291.941 |
| 54.0 | 2582.717 | 2605.395 | 2693.585 | 2488.983 | 2122.112 |
| 54.5 | 2549.457 | 2567.095 | 2654.781 | 2416.415 | 1981.511 |

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| | | | | | |
|------|----------|----------|----------|----------|----------|
| 55.0 | 2516.196 | 2522.244 | 2617.489 | 2325.705 | 1882.738 |
| 55.5 | 2473.865 | 2480.920 | 2579.190 | 2196.695 | 1807.650 |
| 56.0 | 2428.006 | 2447.660 | 2541.898 | 2035.937 | 1734.578 |
| 56.5 | 2389.706 | 2412.384 | 2504.102 | 1886.265 | 1643.364 |
| 57.0 | 2357.454 | 2373.076 | 2464.290 | 1780.437 | 1551.142 |
| 57.5 | 2321.170 | 2329.233 | 2420.447 | 1704.845 | 1474.543 |
| 58.0 | 2279.342 | 2286.398 | 2373.580 | 1643.364 | 1427.172 |
| 58.5 | 2232.476 | 2245.578 | 2316.130 | 1568.276 | 1397.439 |
| 59.0 | 2194.680 | 2205.766 | 2250.114 | 1465.472 | 1372.746 |
| 59.5 | 2157.892 | 2162.931 | 2175.026 | 1380.305 | 1337.973 |
| 60.0 | 2110.521 | 2118.080 | 2086.332 | 1329.910 | 1291.611 |
| 60.5 | 2065.166 | 2079.780 | 2006.708 | 1300.178 | 1232.649 |
| 61.0 | 2024.346 | 2037.953 | 1931.620 | 1274.980 | 1159.577 |
| 61.5 | 1988.566 | 1994.614 | 1844.438 | 1238.192 | 1082.473 |
| 62.0 | 1945.731 | 1948.755 | 1749.696 | 1190.822 | 1005.370 |
| 62.5 | 1892.817 | 1902.392 | 1627.238 | 1128.836 | 903.069 |
| 63.0 | 1846.454 | 1862.580 | 1489.157 | 1051.733 | 749.366 |
| 63.5 | 1809.666 | 1823.272 | 1377.281 | 977.149 | 625.396 |
| 64.0 | 1764.815 | 1777.413 | 1301.186 | 902.565 | 551.820 |
| 64.5 | 1721.979 | 1737.098 | 1243.232 | 791.697 | 484.341 |
| 65.0 | 1681.664 | 1695.774 | 1176.207 | 646.561 | 381.285 |
| 65.5 | 1628.246 | 1648.907 | 1092.048 | 546.276 | 330.386 |
| 66.0 | 1582.891 | 1605.568 | 1021.496 | 485.047 | 318.997 |
| 66.5 | 1543.583 | 1566.260 | 979.165 | 394.841 | 313.756 |
| 67.0 | 1500.748 | 1522.417 | 945.904 | 330.890 | 309.170 |
| 67.5 | 1455.897 | 1479.078 | 911.132 | 307.759 | 304.635 |
| 68.0 | 1409.534 | 1439.770 | 866.281 | 301.409 | 300.402 |
| 68.5 | 1369.218 | 1393.407 | 802.784 | 296.370 | 296.269 |
| 69.0 | 1329.910 | 1351.580 | 730.216 | 291.683 | 292.137 |
| 69.5 | 1286.067 | 1308.745 | 668.231 | 287.299 | 287.904 |
| 70.0 | 1243.232 | 1268.933 | 583.064 | 283.116 | 283.721 |
| 70.5 | 1201.908 | 1223.578 | 473.809 | 278.833 | 279.689 |
| 71.0 | 1165.624 | 1176.207 | 403.408 | 274.852 | 275.658 |
| 71.5 | 1123.797 | 1126.821 | 350.292 | 270.870 | 271.122 |
| 72.0 | 1081.970 | 1074.410 | 289.516 | 266.385 | 266.738 |
| 72.5 | 1040.646 | 1007.386 | 259.481 | 262.102 | 262.051 |
| 73.0 | 1001.842 | 937.337 | 251.670 | 257.768 | 256.961 |
| 73.5 | 963.039 | 877.368 | 246.479 | 253.131 | 251.821 |
| 74.0 | 924.235 | 813.871 | 241.390 | 248.142 | 246.177 |
| 74.5 | 885.935 | 744.326 | 236.602 | 242.750 | 240.583 |
| 75.0 | 843.100 | 655.632 | 231.764 | 237.257 | 234.737 |
| 75.5 | 803.792 | 593.647 | 227.128 | 231.613 | 228.640 |
| 76.0 | 764.484 | 548.292 | 222.643 | 225.767 | 222.441 |
| 76.5 | 722.657 | 498.704 | 217.805 | 219.770 | 216.041 |
| 77.0 | 680.829 | 446.092 | 212.967 | 213.622 | 209.691 |
| 77.5 | 638.498 | 411.824 | 207.776 | 207.424 | 203.140 |
| 78.0 | 591.127 | 370.047 | 202.384 | 201.024 | 196.589 |
| 78.5 | 551.820 | 317.737 | 196.589 | 194.321 | 189.836 |
| 79.0 | 517.047 | 277.371 | 190.743 | 187.770 | 183.234 |
| 79.5 | 480.965 | 218.964 | 184.746 | 181.219 | 176.481 |
| 80.0 | 444.530 | 188.223 | 178.548 | 174.466 | 169.577 |
| 80.5 | 408.044 | 159.448 | 172.349 | 167.511 | 162.774 |
| 81.0 | 371.004 | 149.672 | 165.899 | 160.607 | 156.626 |
| 81.5 | 334.468 | 143.574 | 159.146 | 153.804 | 150.730 |
| 82.0 | 301.561 | 137.224 | 152.091 | 146.900 | 142.868 |
| 82.5 | 272.181 | 130.824 | 145.035 | 140.046 | 135.914 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---------|---------|---------|---------|---------|
| 83.0 | 240.583 | 124.575 | 137.527 | 132.991 | 129.161 |
| 83.5 | 209.742 | 118.074 | 130.068 | 126.037 | 122.257 |
| 84.0 | 179.959 | 111.422 | 122.358 | 118.780 | 115.151 |
| 84.5 | 152.141 | 104.367 | 114.799 | 111.221 | 107.743 |
| 85.0 | 124.474 | 97.261 | 106.987 | 103.057 | 99.630 |
| 85.5 | 110.112 | 89.702 | 98.622 | 94.288 | 91.315 |
| 86.0 | 94.338 | 81.891 | 89.803 | 85.066 | 82.294 |
| 86.5 | 71.409 | 73.727 | 79.926 | 75.088 | 73.173 |
| 87.0 | 59.415 | 65.210 | 69.444 | 64.656 | 63.245 |
| 87.5 | 51.856 | 56.341 | 58.256 | 54.073 | 52.561 |
| 88.0 | 44.347 | 46.615 | 47.068 | 42.432 | 40.568 |
| 88.5 | 36.133 | 36.133 | 35.679 | 29.834 | 27.515 |
| 89.0 | 26.407 | 26.054 | 24.290 | 19.351 | 17.789 |
| 89.5 | 16.529 | 17.487 | 15.622 | 13.254 | 12.851 |
| 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 |

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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-L120-840-HE-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-L120-840-HE-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-L120-840-HE-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 1773.00 | N.A. | 14.00 |
| 0-30 | 3781.51 | N.A. | 29.80 |
| 0-40 | 6231.15 | N.A. | 49.10 |
| 0-60 | 10942.34 | N.A. | 86.20 |
| 0-80 | 12584.11 | N.A. | 99.10 |
| 0-90 | 12698.42 | N.A. | 100.00 |
| 10-90 | 12241.22 | N.A. | 96.40 |
| 20-40 | 4458.15 | N.A. | 35.10 |
| 20-50 | 7021.54 | N.A. | 55.30 |
| 40-70 | 5896.23 | N.A. | 46.40 |
| 60-80 | 1641.77 | N.A. | 12.90 |
| 70-80 | 456.73 | N.A. | 3.60 |
| 80-90 | 114.31 | 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 | 12698.42 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 457.20 |
| 10-20 | 1315.8 |
| 20-30 | 2008.51 |
| 30-40 | 2449.64 |
| 40-50 | 2563.39 |
| 50-60 | 2147.8 |
| 60-70 | 1185.04 |
| 70-80 | 456.73 |
| 80-90 | 114.31 |
| 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-L120-840-HE-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-L120-840-HE-DIM-UNV_.IES

UGR TABLE - CORRECTED

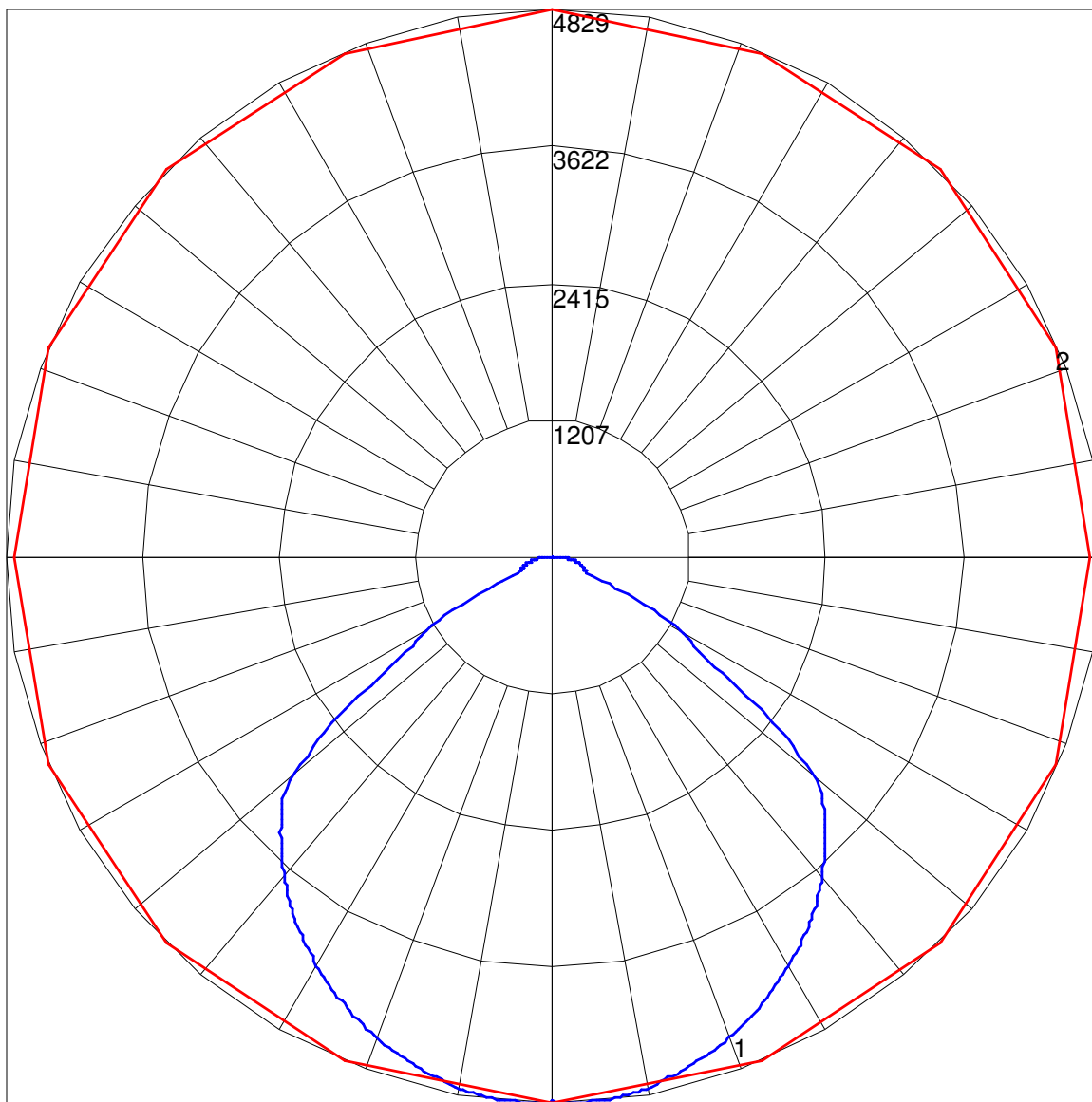
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 23.6 | 25.2 | 24.0 | 25.5 | 25.8 | 21.2 | 22.8 | 21.6 | 23.1 | 23.4 |
| | 3H | 25.3 | 26.7 | 25.7 | 27.0 | 27.4 | 21.3 | 22.7 | 21.7 | 23.1 | 23.4 |
| | 4H | 25.8 | 27.2 | 26.2 | 27.5 | 27.9 | 21.4 | 22.7 | 21.8 | 23.1 | 23.5 |
| | 6H | 26.1 | 27.3 | 26.5 | 27.7 | 28.1 | 21.5 | 22.8 | 22.0 | 23.1 | 23.5 |
| | 8H | 26.2 | 27.3 | 26.6 | 27.7 | 28.1 | 21.6 | 22.8 | 22.0 | 23.2 | 23.6 |
| | 12H | 26.2 | 27.3 | 26.6 | 27.7 | 28.1 | 21.7 | 22.8 | 22.1 | 23.2 | 23.6 |
| 4H | 2H | 23.9 | 25.2 | 24.3 | 25.5 | 25.9 | 21.8 | 23.2 | 22.2 | 23.5 | 23.9 |
| | 3H | 25.7 | 26.8 | 26.1 | 27.2 | 27.6 | 22.0 | 23.1 | 22.4 | 23.5 | 23.9 |
| | 4H | 26.3 | 27.3 | 26.7 | 27.7 | 28.1 | 22.2 | 23.1 | 22.6 | 23.5 | 24.0 |
| | 6H | 26.7 | 27.5 | 27.1 | 27.9 | 28.4 | 22.3 | 23.2 | 22.8 | 23.6 | 24.1 |
| | 8H | 26.7 | 27.5 | 27.2 | 28.0 | 28.4 | 22.4 | 23.2 | 22.9 | 23.7 | 24.1 |
| | 12H | 26.8 | 27.5 | 27.3 | 28.0 | 28.4 | 22.5 | 23.2 | 23.0 | 23.7 | 24.2 |
| 8H | 4H | 26.3 | 27.1 | 26.7 | 27.5 | 28.0 | 22.3 | 23.1 | 22.8 | 23.6 | 24.0 |
| | 6H | 26.6 | 27.3 | 27.1 | 27.8 | 28.2 | 22.6 | 23.3 | 23.1 | 23.7 | 24.2 |
| | 8H | 26.7 | 27.3 | 27.2 | 27.8 | 28.3 | 22.7 | 23.3 | 23.2 | 23.8 | 24.3 |
| | 12H | 26.8 | 27.3 | 27.3 | 27.8 | 28.4 | 22.9 | 23.4 | 23.4 | 23.9 | 24.5 |
| 12H | 4H | 26.2 | 27.0 | 26.7 | 27.4 | 27.9 | 22.4 | 23.1 | 22.8 | 23.5 | 24.0 |
| | 6H | 26.6 | 27.2 | 27.1 | 27.7 | 28.2 | 22.6 | 23.2 | 23.1 | 23.7 | 24.2 |
| | 8H | 26.7 | 27.2 | 27.2 | 27.7 | 28.3 | 22.8 | 23.3 | 23.3 | 23.8 | 24.4 |

Maximum UGR = 28.4

POLAR GRAPH



Maximum Candela = 4829.303 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.)