



IES INDOOR REPORT

PHOTOMETRIC FILENAME : GS-2-L120-835-HA-CA-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 14617179.01
[TESTLAB] UL Verification Services Inc.
[ISSUE DATE] 2023-03-13
[TEST DATE] 1/6/2023
[MANUFAC] H E Williams Inc
[LUMCAT] GS-2-L120-835-HA-CA-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 | 11844 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 139 |
| 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 | 23630 | 24362 | 24803 |
| 55 | 22618 | 23528 | 16924 |
| 65 | 20516 | 14349 | 4652 |
| 75 | 16795 | 4617 | 4676 |
| 85 | 7363 | 6329 | 5894 |

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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 | 4489.683 | 4489.683 | 4489.683 | 4489.683 | 4489.683 |
| 0.5 | 4434.220 | 4492.503 | 4502.373 | 4495.323 | 4504.253 |
| 1.0 | 4435.630 | 4492.973 | 4502.843 | 4495.323 | 4503.783 |
| 1.5 | 4437.510 | 4492.503 | 4503.313 | 4493.913 | 4502.373 |
| 2.0 | 4437.040 | 4493.443 | 4502.373 | 4494.383 | 4502.843 |
| 2.5 | 4436.100 | 4492.503 | 4502.843 | 4493.443 | 4501.433 |
| 3.0 | 4435.630 | 4490.623 | 4501.903 | 4493.913 | 4502.373 |
| 3.5 | 4434.220 | 4487.802 | 4501.433 | 4493.913 | 4502.373 |
| 4.0 | 4430.929 | 4486.392 | 4500.023 | 4495.793 | 4503.313 |
| 4.5 | 4426.699 | 4483.572 | 4498.143 | 4496.733 | 4504.253 |
| 5.0 | 4421.059 | 4480.282 | 4496.733 | 4495.793 | 4502.843 |
| 5.5 | 4416.829 | 4477.462 | 4494.853 | 4494.383 | 4500.963 |
| 6.0 | 4413.538 | 4474.642 | 4492.503 | 4491.093 | 4497.203 |
| 6.5 | 4408.838 | 4470.411 | 4490.153 | 4487.802 | 4492.033 |
| 7.0 | 4402.728 | 4465.711 | 4485.452 | 4483.102 | 4485.922 |
| 7.5 | 4397.558 | 4461.481 | 4481.222 | 4476.992 | 4479.342 |
| 8.0 | 4392.857 | 4456.311 | 4475.112 | 4470.411 | 4473.232 |
| 8.5 | 4390.507 | 4450.670 | 4469.471 | 4463.831 | 4468.531 |
| 9.0 | 4386.747 | 4444.560 | 4463.361 | 4457.251 | 4462.891 |
| 9.5 | 4381.577 | 4439.860 | 4458.191 | 4452.551 | 4458.661 |
| 10.0 | 4375.936 | 4435.630 | 4452.551 | 4446.910 | 4453.021 |
| 10.5 | 4370.766 | 4430.929 | 4445.970 | 4439.860 | 4446.440 |
| 11.0 | 4365.126 | 4426.229 | 4438.450 | 4431.869 | 4439.390 |
| 11.5 | 4360.426 | 4421.059 | 4430.929 | 4424.349 | 4428.579 |
| 12.0 | 4351.495 | 4414.478 | 4424.819 | 4414.478 | 4414.478 |
| 12.5 | 4341.625 | 4407.898 | 4416.359 | 4401.318 | 4403.198 |
| 13.0 | 4331.754 | 4400.378 | 4407.428 | 4388.157 | 4390.977 |
| 13.5 | 4321.413 | 4390.037 | 4398.498 | 4376.876 | 4377.346 |
| 14.0 | 4310.133 | 4380.167 | 4389.097 | 4364.186 | 4364.656 |
| 14.5 | 4295.092 | 4370.296 | 4377.816 | 4351.495 | 4353.845 |
| 15.0 | 4284.281 | 4360.426 | 4367.006 | 4338.804 | 4345.385 |
| 15.5 | 4278.171 | 4349.615 | 4354.315 | 4326.584 | 4336.924 |
| 16.0 | 4269.241 | 4337.394 | 4341.625 | 4315.773 | 4326.584 |
| 16.5 | 4259.840 | 4326.114 | 4326.584 | 4304.963 | 4317.183 |
| 17.0 | 4253.730 | 4314.363 | 4313.423 | 4294.152 | 4306.373 |
| 17.5 | 4243.859 | 4303.082 | 4299.322 | 4281.931 | 4296.032 |
| 18.0 | 4232.579 | 4289.922 | 4284.281 | 4270.651 | 4283.811 |
| 18.5 | 4220.358 | 4277.231 | 4271.121 | 4257.020 | 4267.831 |
| 19.0 | 4205.787 | 4265.010 | 4254.670 | 4242.919 | 4252.790 |
| 19.5 | 4189.806 | 4252.320 | 4239.159 | 4229.288 | 4240.569 |
| 20.0 | 4174.766 | 4239.629 | 4224.118 | 4214.718 | 4227.408 |
| 20.5 | 4160.195 | 4225.998 | 4210.487 | 4200.617 | 4214.248 |
| 21.0 | 4146.094 | 4211.427 | 4196.387 | 4187.456 | 4200.147 |
| 21.5 | 4129.643 | 4196.857 | 4181.816 | 4174.295 | 4184.636 |
| 22.0 | 4113.662 | 4182.286 | 4167.245 | 4160.195 | 4169.125 |
| 22.5 | 4100.031 | 4166.775 | 4151.734 | 4145.624 | 4155.024 |
| 23.0 | 4086.401 | 4150.794 | 4134.343 | 4128.703 | 4138.104 |
| 23.5 | 4072.770 | 4132.933 | 4117.422 | 4113.662 | 4123.063 |
| 24.0 | 4055.849 | 4116.952 | 4099.091 | 4098.621 | 4106.612 |
| 24.5 | 4041.278 | 4100.972 | 4080.290 | 4081.700 | 4091.101 |
| 25.0 | 4025.297 | 4081.230 | 4060.079 | 4066.190 | 4073.240 |
| 25.5 | 4006.966 | 4064.780 | 4042.218 | 4048.799 | 4056.319 |
| 26.0 | 3985.815 | 4048.329 | 4024.827 | 4031.408 | 4037.518 |
| 26.5 | 3962.784 | 4026.708 | 4007.907 | 4013.077 | 4019.187 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 3941.633 | 4005.556 | 3989.576 | 3995.216 | 4000.856 |
| 27.5 | 3920.952 | 3983.465 | 3972.655 | 3977.355 | 3982.995 |
| 28.0 | 3901.211 | 3961.374 | 3954.324 | 3960.434 | 3965.134 |
| 28.5 | 3884.290 | 3939.283 | 3935.053 | 3942.103 | 3945.863 |
| 29.0 | 3865.489 | 3917.662 | 3915.312 | 3920.482 | 3927.062 |
| 29.5 | 3846.688 | 3896.040 | 3895.570 | 3900.741 | 3910.141 |
| 30.0 | 3827.887 | 3872.069 | 3874.419 | 3880.060 | 3890.400 |
| 30.5 | 3809.086 | 3849.978 | 3855.148 | 3858.908 | 3872.539 |
| 31.0 | 3788.875 | 3825.537 | 3835.877 | 3839.167 | 3852.798 |
| 31.5 | 3766.313 | 3801.565 | 3815.666 | 3818.956 | 3833.057 |
| 32.0 | 3742.812 | 3779.944 | 3794.515 | 3798.275 | 3812.376 |
| 32.5 | 3718.371 | 3756.913 | 3774.304 | 3779.944 | 3790.755 |
| 33.0 | 3692.989 | 3734.352 | 3755.973 | 3759.733 | 3771.014 |
| 33.5 | 3668.548 | 3710.380 | 3734.822 | 3739.052 | 3753.153 |
| 34.0 | 3643.637 | 3684.999 | 3711.791 | 3717.431 | 3732.472 |
| 34.5 | 3620.136 | 3660.088 | 3688.289 | 3695.810 | 3710.850 |
| 35.0 | 3598.514 | 3634.236 | 3662.438 | 3674.659 | 3687.819 |
| 35.5 | 3578.303 | 3608.385 | 3632.826 | 3652.567 | 3667.138 |
| 36.0 | 3553.862 | 3580.653 | 3608.855 | 3630.476 | 3645.517 |
| 36.5 | 3528.481 | 3552.922 | 3585.824 | 3607.445 | 3622.486 |
| 37.0 | 3499.339 | 3525.190 | 3560.442 | 3584.884 | 3599.924 |
| 37.5 | 3467.847 | 3497.929 | 3534.591 | 3562.322 | 3575.953 |
| 38.0 | 3437.766 | 3471.138 | 3511.560 | 3538.821 | 3551.042 |
| 38.5 | 3407.214 | 3443.876 | 3489.468 | 3514.380 | 3523.780 |
| 39.0 | 3380.423 | 3416.615 | 3463.617 | 3488.058 | 3498.399 |
| 39.5 | 3355.041 | 3387.473 | 3434.946 | 3460.327 | 3473.488 |
| 40.0 | 3328.720 | 3356.921 | 3406.274 | 3434.006 | 3447.636 |
| 40.5 | 3301.458 | 3326.370 | 3379.013 | 3407.214 | 3423.195 |
| 41.0 | 3276.077 | 3295.818 | 3351.281 | 3378.072 | 3398.284 |
| 41.5 | 3245.055 | 3264.796 | 3321.669 | 3351.281 | 3369.612 |
| 42.0 | 3210.743 | 3234.245 | 3291.588 | 3322.609 | 3340.470 |
| 42.5 | 3173.611 | 3203.223 | 3261.036 | 3293.938 | 3311.799 |
| 43.0 | 3137.419 | 3171.731 | 3231.895 | 3265.266 | 3284.067 |
| 43.5 | 3103.578 | 3138.360 | 3201.813 | 3236.125 | 3256.806 |
| 44.0 | 3073.496 | 3106.868 | 3174.551 | 3207.923 | 3231.425 |
| 44.5 | 3048.585 | 3075.846 | 3145.410 | 3182.542 | 3204.163 |
| 45.0 | 3022.733 | 3042.944 | 3116.268 | 3156.220 | 3172.671 |
| 45.5 | 2994.532 | 3010.983 | 3084.777 | 3124.729 | 3144.000 |
| 46.0 | 2961.160 | 2978.081 | 3049.525 | 3089.947 | 3112.978 |
| 46.5 | 2926.848 | 2943.769 | 3012.393 | 3061.275 | 3083.367 |
| 47.0 | 2890.656 | 2910.867 | 2980.901 | 3031.664 | 3054.695 |
| 47.5 | 2858.224 | 2879.376 | 2949.409 | 3000.642 | 3024.143 |
| 48.0 | 2828.613 | 2848.824 | 2916.038 | 2971.030 | 2992.652 |
| 48.5 | 2799.471 | 2821.092 | 2883.136 | 2941.889 | 2955.050 |
| 49.0 | 2768.450 | 2783.020 | 2852.114 | 2911.807 | 2907.107 |
| 49.5 | 2735.078 | 2742.598 | 2821.562 | 2881.726 | 2851.644 |
| 50.0 | 2693.245 | 2708.756 | 2789.601 | 2849.294 | 2784.900 |
| 50.5 | 2655.173 | 2679.145 | 2755.289 | 2814.512 | 2703.586 |
| 51.0 | 2619.452 | 2643.893 | 2720.977 | 2772.210 | 2610.051 |
| 51.5 | 2588.430 | 2609.581 | 2685.255 | 2720.507 | 2520.276 |
| 52.0 | 2558.818 | 2572.449 | 2651.413 | 2660.344 | 2447.892 |
| 52.5 | 2524.976 | 2536.727 | 2617.101 | 2582.319 | 2379.269 |
| 53.0 | 2485.964 | 2498.185 | 2581.849 | 2493.015 | 2276.333 |
| 53.5 | 2446.012 | 2462.463 | 2548.008 | 2399.950 | 2137.675 |
| 54.0 | 2408.880 | 2430.031 | 2512.286 | 2321.455 | 1979.277 |
| 54.5 | 2377.858 | 2394.309 | 2476.094 | 2253.772 | 1848.140 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 55.0 | 2346.837 | 2352.477 | 2441.312 | 2169.167 | 1756.015 |
| 55.5 | 2307.355 | 2313.935 | 2405.590 | 2048.841 | 1685.981 |
| 56.0 | 2264.582 | 2282.913 | 2370.808 | 1898.903 | 1617.827 |
| 56.5 | 2228.860 | 2250.012 | 2335.556 | 1759.305 | 1532.753 |
| 57.0 | 2198.779 | 2213.350 | 2298.424 | 1660.600 | 1446.738 |
| 57.5 | 2164.937 | 2172.457 | 2257.532 | 1590.096 | 1375.294 |
| 58.0 | 2125.925 | 2132.505 | 2213.820 | 1532.753 | 1331.112 |
| 58.5 | 2082.212 | 2094.433 | 2160.237 | 1462.719 | 1303.380 |
| 59.0 | 2046.961 | 2057.301 | 2098.663 | 1366.834 | 1280.349 |
| 59.5 | 2012.649 | 2017.349 | 2028.630 | 1287.400 | 1247.917 |
| 60.0 | 1968.466 | 1975.517 | 1945.905 | 1240.397 | 1204.675 |
| 60.5 | 1926.164 | 1939.795 | 1871.641 | 1212.666 | 1149.682 |
| 61.0 | 1888.092 | 1900.783 | 1801.607 | 1189.164 | 1081.528 |
| 61.5 | 1854.720 | 1860.360 | 1720.293 | 1154.852 | 1009.615 |
| 62.0 | 1814.768 | 1817.588 | 1631.928 | 1110.670 | 937.701 |
| 62.5 | 1765.415 | 1774.346 | 1517.712 | 1052.857 | 842.285 |
| 63.0 | 1722.173 | 1737.214 | 1388.925 | 980.943 | 698.928 |
| 63.5 | 1687.861 | 1700.552 | 1284.579 | 911.379 | 583.302 |
| 64.0 | 1646.029 | 1657.780 | 1213.606 | 841.815 | 514.678 |
| 64.5 | 1606.077 | 1620.178 | 1159.553 | 738.410 | 451.741 |
| 65.0 | 1568.475 | 1581.635 | 1097.039 | 603.043 | 355.621 |
| 65.5 | 1518.652 | 1537.923 | 1018.545 | 509.508 | 308.149 |
| 66.0 | 1476.350 | 1497.501 | 952.741 | 452.399 | 297.526 |
| 66.5 | 1439.688 | 1460.839 | 913.259 | 368.265 | 292.638 |
| 67.0 | 1399.736 | 1419.947 | 882.238 | 308.619 | 288.361 |
| 67.5 | 1357.903 | 1379.525 | 849.806 | 287.045 | 284.130 |
| 68.0 | 1314.661 | 1342.863 | 807.974 | 281.122 | 280.182 |
| 68.5 | 1277.059 | 1299.620 | 748.750 | 276.422 | 276.328 |
| 69.0 | 1240.397 | 1260.608 | 681.067 | 272.051 | 272.474 |
| 69.5 | 1199.505 | 1220.656 | 623.254 | 267.961 | 268.526 |
| 70.0 | 1159.553 | 1183.524 | 543.819 | 264.060 | 264.624 |
| 70.5 | 1121.011 | 1141.222 | 441.918 | 260.065 | 260.864 |
| 71.0 | 1087.169 | 1097.039 | 376.255 | 256.352 | 257.104 |
| 71.5 | 1048.157 | 1050.977 | 326.715 | 252.639 | 252.874 |
| 72.0 | 1009.145 | 1002.094 | 270.030 | 248.455 | 248.784 |
| 72.5 | 970.602 | 939.581 | 242.016 | 244.460 | 244.413 |
| 73.0 | 934.410 | 874.247 | 234.731 | 240.418 | 239.666 |
| 73.5 | 898.219 | 818.314 | 229.889 | 236.094 | 234.872 |
| 74.0 | 862.027 | 759.091 | 225.142 | 231.441 | 229.607 |
| 74.5 | 826.305 | 694.228 | 220.677 | 226.411 | 224.390 |
| 75.0 | 786.352 | 611.503 | 216.165 | 221.288 | 218.938 |
| 75.5 | 749.690 | 553.690 | 211.840 | 216.024 | 213.251 |
| 76.0 | 713.029 | 511.388 | 207.657 | 210.571 | 207.469 |
| 76.5 | 674.016 | 465.137 | 203.145 | 204.978 | 201.500 |
| 77.0 | 635.004 | 416.066 | 198.633 | 199.244 | 195.578 |
| 77.5 | 595.522 | 384.105 | 193.791 | 193.462 | 189.467 |
| 78.0 | 551.340 | 345.140 | 188.762 | 187.493 | 183.357 |
| 78.5 | 514.678 | 296.351 | 183.357 | 181.242 | 177.059 |
| 79.0 | 482.246 | 258.702 | 177.905 | 175.131 | 170.901 |
| 79.5 | 448.592 | 204.226 | 172.311 | 169.021 | 164.603 |
| 80.0 | 414.609 | 175.554 | 166.530 | 162.723 | 158.164 |
| 80.5 | 380.580 | 148.716 | 160.749 | 156.236 | 151.818 |
| 81.0 | 346.033 | 139.598 | 154.732 | 149.797 | 146.084 |
| 81.5 | 311.956 | 133.910 | 148.434 | 143.452 | 140.585 |
| 82.0 | 281.263 | 127.988 | 141.854 | 137.012 | 133.252 |
| 82.5 | 253.861 | 122.019 | 135.273 | 130.620 | 126.766 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---------|---------|---------|---------|---------|
| 83.0 | 224.390 | 116.190 | 128.270 | 124.040 | 120.468 |
| 83.5 | 195.625 | 110.127 | 121.314 | 117.553 | 114.028 |
| 84.0 | 167.846 | 103.923 | 114.122 | 110.785 | 107.401 |
| 84.5 | 141.901 | 97.342 | 107.072 | 103.735 | 100.491 |
| 85.0 | 116.096 | 90.715 | 99.786 | 96.120 | 92.924 |
| 85.5 | 102.701 | 83.665 | 91.984 | 87.942 | 85.169 |
| 86.0 | 87.989 | 76.379 | 83.759 | 79.340 | 76.755 |
| 86.5 | 66.603 | 68.765 | 74.546 | 70.034 | 68.248 |
| 87.0 | 55.416 | 60.821 | 64.769 | 60.304 | 58.988 |
| 87.5 | 48.366 | 52.549 | 54.335 | 50.434 | 49.024 |
| 88.0 | 41.362 | 43.477 | 43.900 | 39.576 | 37.837 |
| 88.5 | 33.701 | 33.701 | 33.278 | 27.826 | 25.663 |
| 89.0 | 24.629 | 24.300 | 22.655 | 18.049 | 16.592 |
| 89.5 | 15.417 | 16.310 | 14.571 | 12.362 | 11.986 |
| 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-L120-835-HA-CA-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-L120-835-HA-CA-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-L120-835-HA-CA-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 1653.67 | N.A. | 14.00 |
| 0-30 | 3526.99 | N.A. | 29.80 |
| 0-40 | 5811.75 | N.A. | 49.10 |
| 0-60 | 10205.83 | N.A. | 86.20 |
| 0-80 | 11737.1 | N.A. | 99.10 |
| 0-90 | 11843.72 | N.A. | 100.00 |
| 10-90 | 11417.29 | N.A. | 96.40 |
| 20-40 | 4158.08 | N.A. | 35.10 |
| 20-50 | 6548.94 | N.A. | 55.30 |
| 40-70 | 5499.37 | N.A. | 46.40 |
| 60-80 | 1531.27 | N.A. | 12.90 |
| 70-80 | 425.99 | N.A. | 3.60 |
| 80-90 | 106.62 | 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 | 11843.72 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 426.43 |
| 10-20 | 1227.24 |
| 20-30 | 1873.32 |
| 30-40 | 2284.76 |
| 40-50 | 2390.85 |
| 50-60 | 2003.23 |
| 60-70 | 1105.28 |
| 70-80 | 425.99 |
| 80-90 | 106.62 |
| 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-L120-835-HA-CA-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 | 56 | 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-L120-835-HA-CA-DIM-UNV_.IES

UGR TABLE - CORRECTED

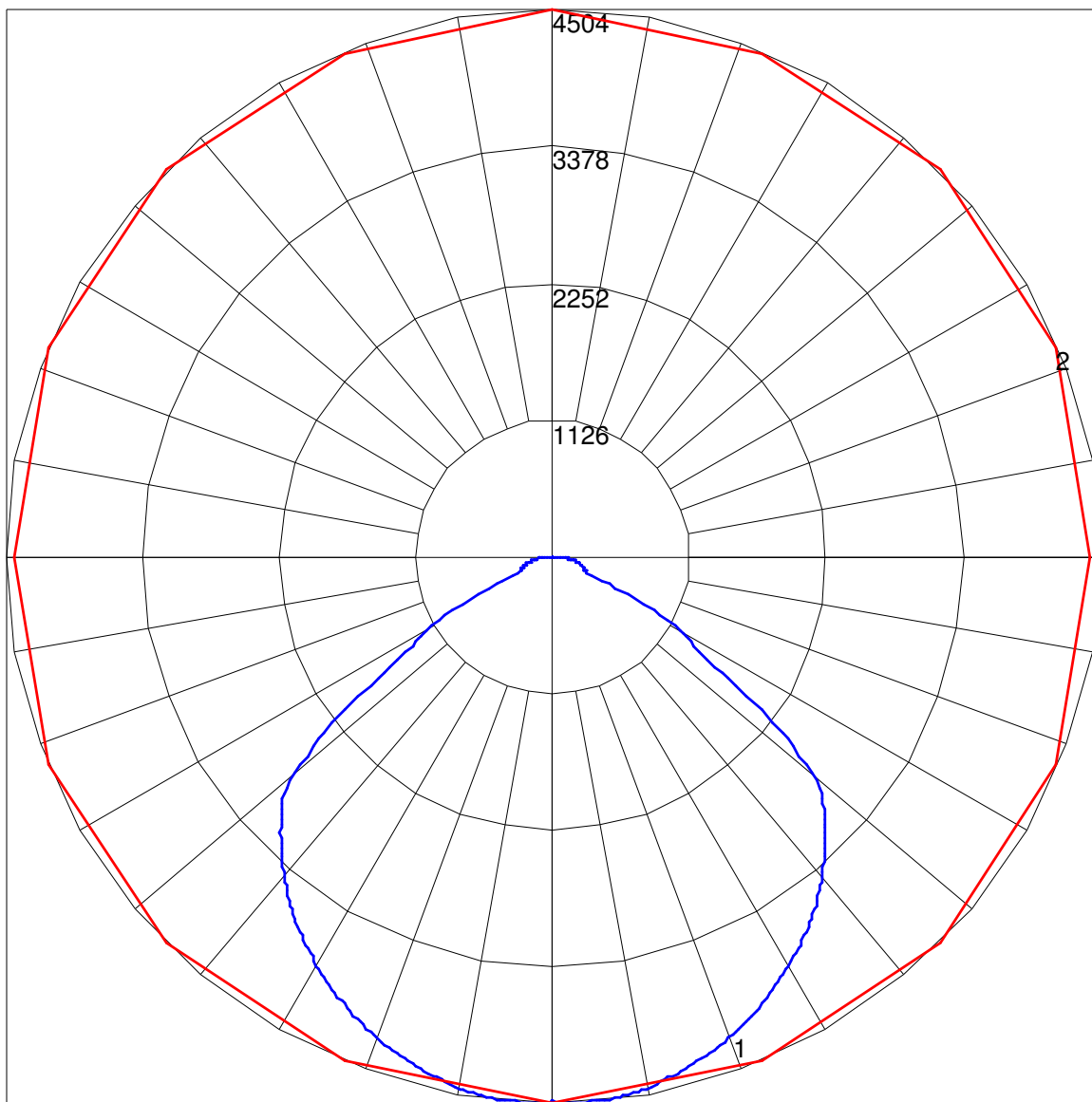
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 23.4 | 25.0 | 23.8 | 25.3 | 25.6 | 21.0 | 22.6 | 21.4 | 22.9 | 23.2 |
| | 3H | 25.1 | 26.5 | 25.5 | 26.8 | 27.2 | 21.1 | 22.5 | 21.5 | 22.9 | 23.2 |
| | 4H | 25.6 | 27.0 | 26.0 | 27.3 | 27.7 | 21.2 | 22.5 | 21.6 | 22.9 | 23.3 |
| | 6H | 25.9 | 27.1 | 26.3 | 27.5 | 27.9 | 21.3 | 22.6 | 21.8 | 22.9 | 23.3 |
| | 8H | 26.0 | 27.1 | 26.4 | 27.5 | 27.9 | 21.4 | 22.6 | 21.8 | 23.0 | 23.4 |
| | 12H | 26.0 | 27.1 | 26.4 | 27.5 | 27.9 | 21.5 | 22.6 | 21.9 | 23.0 | 23.4 |
| 4H | 2H | 23.7 | 25.0 | 24.1 | 25.3 | 25.7 | 21.6 | 23.0 | 22.0 | 23.3 | 23.7 |
| | 3H | 25.5 | 26.6 | 25.9 | 27.0 | 27.4 | 21.8 | 22.9 | 22.2 | 23.3 | 23.7 |
| | 4H | 26.1 | 27.1 | 26.5 | 27.5 | 27.9 | 22.0 | 22.9 | 22.4 | 23.3 | 23.8 |
| | 6H | 26.5 | 27.3 | 26.9 | 27.7 | 28.2 | 22.2 | 23.0 | 22.6 | 23.4 | 23.9 |
| | 8H | 26.5 | 27.3 | 27.0 | 27.8 | 28.2 | 22.2 | 23.0 | 22.7 | 23.5 | 23.9 |
| | 12H | 26.6 | 27.3 | 27.1 | 27.8 | 28.2 | 22.3 | 23.0 | 22.8 | 23.5 | 24.0 |
| 8H | 4H | 26.1 | 26.9 | 26.5 | 27.3 | 27.8 | 22.1 | 22.9 | 22.6 | 23.4 | 23.8 |
| | 6H | 26.4 | 27.1 | 26.9 | 27.6 | 28.0 | 22.4 | 23.1 | 22.9 | 23.5 | 24.0 |
| | 8H | 26.5 | 27.1 | 27.0 | 27.6 | 28.1 | 22.5 | 23.1 | 23.0 | 23.6 | 24.1 |
| | 12H | 26.6 | 27.1 | 27.1 | 27.6 | 28.2 | 22.7 | 23.2 | 23.2 | 23.7 | 24.3 |
| 12H | 4H | 26.0 | 26.8 | 26.5 | 27.2 | 27.7 | 22.2 | 22.9 | 22.6 | 23.3 | 23.8 |
| | 6H | 26.4 | 27.0 | 26.9 | 27.5 | 28.0 | 22.4 | 23.0 | 22.9 | 23.5 | 24.0 |
| | 8H | 26.5 | 27.0 | 27.0 | 27.5 | 28.1 | 22.6 | 23.1 | 23.1 | 23.6 | 24.2 |

Maximum UGR = 28.2

POLAR GRAPH



Maximum Candela = 4504.253 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.)