



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LRX5-4-L20-835-S-DMA-DRV-UNV.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #13638856.04

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 31-AUG-2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] LRX5-4-L20-835-DMA-DIM-UNV

[LUMINAIRE] White steel housing, frosted lens enclosure

[LAMP] 288 white LEDs

[BALLAST] (1) Everline D21CC80UNVPW-C Driver

[OTHER] 25.3 C, 119.998 V, 0.517964 A, 62.0116 W, 0.997695 PF, 60.0072

[MORE] Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[_SEARCH_SOURCE TYPE] LED

[_SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Office, Direct, Linear

[_SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 8024 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 123 |
| Total Luminaire Watts | 65.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.12 |
| Spacing Criterion (Diagonal) | 1.24 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.94 ft |
| Luminous Width (90-270) | 0.44 ft |
| Luminous Height | 0.00 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 18316 | 16057 | 14688 |
| 55 | 15911 | 13600 | 12321 |
| 65 | 13419 | 11433 | 10379 |
| 75 | 10688 | 9306 | 8605 |
| 85 | 7743 | 7140 | 6946 |

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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 | 3511.932 | 3511.932 | 3511.932 | 3511.932 | 3511.932 |
| 0.5 | 3556.729 | 3512.973 | 3497.346 | 3508.806 | 3501.514 |
| 1.0 | 3556.729 | 3511.932 | 3496.304 | 3508.806 | 3500.472 |
| 1.5 | 3554.646 | 3510.890 | 3496.304 | 3507.764 | 3499.430 |
| 2.0 | 3553.604 | 3509.848 | 3494.221 | 3506.723 | 3498.388 |
| 2.5 | 3551.520 | 3507.764 | 3492.137 | 3504.639 | 3496.304 |
| 3.0 | 3549.437 | 3505.681 | 3490.054 | 3502.555 | 3493.179 |
| 3.5 | 3547.353 | 3503.597 | 3487.970 | 3500.472 | 3491.095 |
| 4.0 | 3545.269 | 3500.472 | 3484.845 | 3497.346 | 3486.928 |
| 4.5 | 3542.144 | 3497.346 | 3481.719 | 3493.179 | 3482.761 |
| 5.0 | 3539.019 | 3493.179 | 3477.552 | 3489.012 | 3477.552 |
| 5.5 | 3534.851 | 3490.054 | 3473.385 | 3483.803 | 3472.343 |
| 6.0 | 3530.684 | 3485.886 | 3468.176 | 3478.594 | 3466.092 |
| 6.5 | 3527.559 | 3480.677 | 3462.967 | 3472.343 | 3459.841 |
| 7.0 | 3522.350 | 3475.468 | 3457.758 | 3466.092 | 3453.590 |
| 7.5 | 3517.141 | 3470.259 | 3451.507 | 3458.799 | 3446.298 |
| 8.0 | 3511.932 | 3465.050 | 3445.256 | 3451.507 | 3439.005 |
| 8.5 | 3506.723 | 3458.799 | 3437.963 | 3443.172 | 3430.671 |
| 9.0 | 3500.472 | 3452.549 | 3430.671 | 3433.796 | 3421.294 |
| 9.5 | 3494.221 | 3446.298 | 3422.336 | 3424.420 | 3411.918 |
| 10.0 | 3487.970 | 3439.005 | 3414.002 | 3415.044 | 3401.500 |
| 10.5 | 3480.677 | 3431.712 | 3404.625 | 3404.625 | 3390.040 |
| 11.0 | 3473.385 | 3423.378 | 3395.249 | 3393.166 | 3378.580 |
| 11.5 | 3466.092 | 3415.044 | 3385.873 | 3381.706 | 3366.079 |
| 12.0 | 3457.758 | 3406.709 | 3374.413 | 3370.246 | 3352.535 |
| 12.5 | 3449.423 | 3397.333 | 3363.995 | 3356.702 | 3340.033 |
| 13.0 | 3440.047 | 3387.957 | 3352.535 | 3344.201 | 3325.448 |
| 13.5 | 3430.671 | 3377.538 | 3341.075 | 3330.657 | 3311.905 |
| 14.0 | 3421.294 | 3367.120 | 3329.615 | 3316.072 | 3297.319 |
| 14.5 | 3410.876 | 3356.702 | 3317.114 | 3301.487 | 3281.692 |
| 15.0 | 3400.458 | 3345.242 | 3303.570 | 3286.901 | 3266.065 |
| 15.5 | 3390.040 | 3333.783 | 3290.027 | 3271.274 | 3250.438 |
| 16.0 | 3378.580 | 3321.281 | 3275.441 | 3254.605 | 3233.769 |
| 16.5 | 3366.079 | 3308.779 | 3260.856 | 3237.936 | 3216.058 |
| 17.0 | 3353.577 | 3296.278 | 3245.229 | 3221.267 | 3197.306 |
| 17.5 | 3341.075 | 3282.734 | 3229.602 | 3203.557 | 3178.553 |
| 18.0 | 3328.574 | 3269.191 | 3213.975 | 3184.804 | 3158.759 |
| 18.5 | 3315.030 | 3254.605 | 3197.306 | 3165.010 | 3138.965 |
| 19.0 | 3301.487 | 3240.020 | 3179.595 | 3145.216 | 3118.129 |
| 19.5 | 3287.943 | 3225.435 | 3161.884 | 3124.379 | 3096.251 |
| 20.0 | 3273.358 | 3209.808 | 3144.174 | 3102.501 | 3073.331 |
| 20.5 | 3258.772 | 3194.180 | 3125.421 | 3080.623 | 3050.411 |
| 21.0 | 3243.145 | 3178.553 | 3106.669 | 3057.704 | 3026.449 |
| 21.5 | 3227.518 | 3161.884 | 3087.916 | 3033.742 | 3002.488 |
| 22.0 | 3210.849 | 3145.216 | 3067.080 | 3009.781 | 2978.526 |
| 22.5 | 3195.222 | 3127.505 | 3047.286 | 2985.819 | 2954.565 |
| 23.0 | 3177.512 | 3109.794 | 3026.449 | 2961.857 | 2929.561 |
| 23.5 | 3160.843 | 3091.042 | 3004.572 | 2936.854 | 2903.516 |
| 24.0 | 3143.132 | 3072.289 | 2982.694 | 2911.851 | 2878.513 |
| 24.5 | 3125.421 | 3052.495 | 2960.816 | 2886.847 | 2852.468 |
| 25.0 | 3105.627 | 3032.700 | 2937.896 | 2861.844 | 2826.423 |
| 25.5 | 3086.874 | 3012.906 | 2914.976 | 2836.841 | 2799.336 |
| 26.0 | 3068.122 | 2992.070 | 2891.015 | 2811.837 | 2772.249 |
| 26.5 | 3048.327 | 2971.234 | 2867.053 | 2785.792 | 2746.203 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 27.0 | 3027.491 | 2950.398 | 2843.091 | 2759.747 | 2720.158 |
| 27.5 | 3006.655 | 2928.520 | 2819.130 | 2733.702 | 2693.071 |
| 28.0 | 2985.819 | 2905.600 | 2794.127 | 2707.657 | 2665.984 |
| 28.5 | 2963.941 | 2882.680 | 2769.123 | 2680.570 | 2638.897 |
| 29.0 | 2942.063 | 2859.760 | 2744.120 | 2653.483 | 2611.810 |
| 29.5 | 2920.185 | 2836.841 | 2718.075 | 2626.396 | 2584.723 |
| 30.0 | 2897.265 | 2812.879 | 2692.029 | 2598.267 | 2556.595 |
| 30.5 | 2874.346 | 2788.917 | 2665.984 | 2570.138 | 2529.508 |
| 31.0 | 2851.426 | 2764.956 | 2639.939 | 2542.009 | 2500.337 |
| 31.5 | 2827.464 | 2740.994 | 2612.852 | 2513.880 | 2472.208 |
| 32.0 | 2803.503 | 2715.991 | 2585.765 | 2484.710 | 2443.038 |
| 32.5 | 2779.541 | 2690.988 | 2558.678 | 2455.539 | 2413.867 |
| 33.0 | 2754.538 | 2664.942 | 2530.549 | 2426.369 | 2383.655 |
| 33.5 | 2730.576 | 2638.897 | 2502.421 | 2396.156 | 2353.442 |
| 34.0 | 2704.531 | 2612.852 | 2474.292 | 2366.986 | 2323.230 |
| 34.5 | 2679.528 | 2585.765 | 2446.163 | 2336.773 | 2293.017 |
| 35.0 | 2653.483 | 2559.720 | 2416.992 | 2307.603 | 2262.805 |
| 35.5 | 2627.437 | 2531.591 | 2387.822 | 2277.390 | 2232.593 |
| 36.0 | 2600.350 | 2504.504 | 2358.651 | 2247.178 | 2202.380 |
| 36.5 | 2573.263 | 2476.375 | 2329.481 | 2216.965 | 2172.168 |
| 37.0 | 2546.176 | 2447.205 | 2299.268 | 2186.753 | 2141.955 |
| 37.5 | 2518.048 | 2419.076 | 2270.098 | 2156.541 | 2111.743 |
| 38.0 | 2490.961 | 2390.947 | 2239.885 | 2126.328 | 2081.530 |
| 38.5 | 2461.790 | 2361.777 | 2209.673 | 2095.074 | 2051.318 |
| 39.0 | 2433.661 | 2332.606 | 2180.502 | 2065.903 | 2021.106 |
| 39.5 | 2404.491 | 2302.394 | 2150.290 | 2035.691 | 1991.935 |
| 40.0 | 2375.320 | 2273.223 | 2120.077 | 2005.479 | 1961.723 |
| 40.5 | 2346.149 | 2244.052 | 2089.865 | 1975.266 | 1931.510 |
| 41.0 | 2316.979 | 2213.840 | 2060.694 | 1945.054 | 1902.340 |
| 41.5 | 2287.808 | 2184.669 | 2030.482 | 1914.841 | 1872.127 |
| 42.0 | 2257.596 | 2154.457 | 2001.311 | 1884.629 | 1841.915 |
| 42.5 | 2227.383 | 2125.286 | 1971.099 | 1854.417 | 1812.744 |
| 43.0 | 2198.213 | 2095.074 | 1940.887 | 1825.246 | 1782.532 |
| 43.5 | 2168.000 | 2064.862 | 1910.674 | 1795.034 | 1753.361 |
| 44.0 | 2137.788 | 2035.691 | 1880.462 | 1765.863 | 1723.149 |
| 44.5 | 2107.576 | 2005.479 | 1850.249 | 1736.692 | 1693.978 |
| 45.0 | 2077.363 | 1975.266 | 1821.079 | 1707.522 | 1665.849 |
| 45.5 | 2047.151 | 1945.054 | 1790.866 | 1679.393 | 1636.679 |
| 46.0 | 2015.897 | 1913.800 | 1760.654 | 1650.222 | 1608.550 |
| 46.5 | 1985.684 | 1883.587 | 1731.483 | 1621.052 | 1580.421 |
| 47.0 | 1955.472 | 1852.333 | 1702.313 | 1592.923 | 1552.293 |
| 47.5 | 1923.176 | 1822.121 | 1672.100 | 1564.794 | 1524.164 |
| 48.0 | 1891.922 | 1791.908 | 1642.930 | 1536.665 | 1497.077 |
| 48.5 | 1860.667 | 1761.696 | 1614.801 | 1508.537 | 1469.990 |
| 49.0 | 1829.413 | 1730.442 | 1585.630 | 1480.408 | 1442.903 |
| 49.5 | 1798.159 | 1700.229 | 1556.460 | 1453.321 | 1415.816 |
| 50.0 | 1767.947 | 1670.017 | 1527.289 | 1425.192 | 1388.729 |
| 50.5 | 1736.692 | 1639.804 | 1499.160 | 1398.105 | 1361.642 |
| 51.0 | 1706.480 | 1609.592 | 1469.990 | 1371.018 | 1335.597 |
| 51.5 | 1675.226 | 1579.379 | 1441.861 | 1343.931 | 1309.551 |
| 52.0 | 1645.013 | 1550.209 | 1413.732 | 1317.886 | 1283.506 |
| 52.5 | 1613.759 | 1521.038 | 1385.603 | 1290.799 | 1257.461 |
| 53.0 | 1583.547 | 1490.826 | 1358.516 | 1264.754 | 1232.458 |
| 53.5 | 1553.334 | 1461.655 | 1331.429 | 1239.750 | 1207.454 |
| 54.0 | 1523.122 | 1433.527 | 1304.342 | 1213.705 | 1182.451 |
| 54.5 | 1492.910 | 1404.356 | 1277.255 | 1188.702 | 1157.448 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|------|----------|----------|----------|----------|----------|
| 55.0 | 1463.739 | 1376.227 | 1251.210 | 1164.740 | 1133.486 |
| 55.5 | 1434.568 | 1349.140 | 1224.123 | 1139.737 | 1108.483 |
| 56.0 | 1404.356 | 1319.970 | 1198.078 | 1115.775 | 1085.563 |
| 56.5 | 1375.185 | 1292.883 | 1173.075 | 1091.814 | 1061.601 |
| 57.0 | 1347.057 | 1264.754 | 1147.030 | 1067.852 | 1038.265 |
| 57.5 | 1317.886 | 1237.667 | 1122.026 | 1044.932 | 1016.074 |
| 58.0 | 1289.757 | 1210.580 | 1097.023 | 1021.804 | 993.884 |
| 58.5 | 1260.587 | 1183.493 | 1072.019 | 998.989 | 971.798 |
| 59.0 | 1232.458 | 1157.448 | 1048.058 | 976.382 | 949.815 |
| 59.5 | 1205.371 | 1131.402 | 1023.575 | 953.774 | 927.833 |
| 60.0 | 1177.242 | 1105.357 | 999.406 | 931.271 | 906.372 |
| 60.5 | 1150.155 | 1079.312 | 975.756 | 909.498 | 885.119 |
| 61.0 | 1123.068 | 1053.267 | 952.524 | 887.515 | 864.283 |
| 61.5 | 1095.981 | 1027.743 | 929.500 | 866.054 | 843.447 |
| 62.0 | 1068.894 | 1002.427 | 906.476 | 844.489 | 822.715 |
| 62.5 | 1041.807 | 977.319 | 883.869 | 823.340 | 801.983 |
| 63.0 | 1015.241 | 952.628 | 861.470 | 802.296 | 781.668 |
| 63.5 | 988.571 | 927.729 | 839.384 | 781.668 | 761.353 |
| 64.0 | 962.005 | 903.247 | 817.819 | 761.561 | 741.767 |
| 64.5 | 935.855 | 879.285 | 796.253 | 741.662 | 722.493 |
| 65.0 | 909.602 | 855.115 | 775.000 | 722.076 | 703.532 |
| 65.5 | 883.869 | 831.049 | 753.747 | 702.699 | 684.676 |
| 66.0 | 858.345 | 807.400 | 732.599 | 683.634 | 666.027 |
| 66.5 | 832.716 | 783.751 | 711.658 | 664.673 | 647.587 |
| 67.0 | 807.713 | 760.623 | 690.926 | 645.920 | 629.460 |
| 67.5 | 782.918 | 737.391 | 670.507 | 627.376 | 611.749 |
| 68.0 | 757.810 | 714.680 | 650.192 | 608.728 | 593.726 |
| 68.5 | 733.224 | 691.864 | 629.981 | 590.080 | 575.703 |
| 69.0 | 709.054 | 669.361 | 609.874 | 571.431 | 557.575 |
| 69.5 | 685.092 | 647.066 | 589.350 | 552.783 | 539.552 |
| 70.0 | 661.756 | 624.876 | 569.452 | 534.447 | 521.737 |
| 70.5 | 638.732 | 603.102 | 549.970 | 516.424 | 504.130 |
| 71.0 | 615.916 | 581.537 | 530.697 | 498.609 | 486.836 |
| 71.5 | 593.413 | 560.388 | 511.736 | 481.002 | 469.751 |
| 72.0 | 571.119 | 539.344 | 492.775 | 463.708 | 452.978 |
| 72.5 | 548.928 | 518.820 | 474.126 | 446.519 | 436.413 |
| 73.0 | 527.363 | 498.400 | 455.999 | 429.641 | 420.057 |
| 73.5 | 505.902 | 478.606 | 438.288 | 413.076 | 404.013 |
| 74.0 | 484.753 | 459.124 | 420.786 | 396.824 | 388.281 |
| 74.5 | 464.125 | 439.955 | 403.492 | 380.780 | 372.654 |
| 75.0 | 443.706 | 420.994 | 386.302 | 364.945 | 357.236 |
| 75.5 | 423.599 | 402.242 | 369.321 | 349.318 | 341.921 |
| 76.0 | 403.804 | 383.802 | 352.652 | 333.899 | 327.023 |
| 76.5 | 384.323 | 365.674 | 336.295 | 318.793 | 312.230 |
| 77.0 | 365.153 | 347.964 | 320.251 | 303.895 | 297.853 |
| 77.5 | 346.297 | 330.565 | 304.416 | 289.414 | 283.580 |
| 78.0 | 327.857 | 313.271 | 288.893 | 275.037 | 269.307 |
| 78.5 | 309.625 | 296.290 | 273.474 | 260.660 | 255.347 |
| 79.0 | 291.810 | 279.517 | 258.368 | 246.492 | 241.595 |
| 79.5 | 274.412 | 262.952 | 243.366 | 232.636 | 228.052 |
| 80.0 | 257.535 | 247.012 | 228.781 | 219.196 | 215.029 |
| 80.5 | 241.178 | 231.281 | 214.716 | 205.965 | 202.215 |
| 81.0 | 225.239 | 215.967 | 200.860 | 192.943 | 189.505 |
| 81.5 | 209.507 | 200.965 | 187.213 | 180.233 | 177.211 |
| 82.0 | 194.089 | 186.171 | 173.878 | 167.627 | 164.918 |
| 82.5 | 178.774 | 171.794 | 160.751 | 155.333 | 152.937 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|---------|---------|---------|---------|---------|
| 83.0 | 163.980 | 157.730 | 148.041 | 143.457 | 141.165 |
| 83.5 | 149.603 | 144.082 | 135.539 | 131.684 | 129.809 |
| 84.0 | 135.435 | 130.851 | 123.350 | 120.120 | 118.662 |
| 84.5 | 121.683 | 117.828 | 111.473 | 108.765 | 107.827 |
| 85.0 | 108.244 | 105.118 | 99.805 | 97.617 | 97.096 |
| 85.5 | 95.117 | 92.617 | 88.241 | 86.678 | 86.678 |
| 86.0 | 82.407 | 80.532 | 76.990 | 76.156 | 76.573 |
| 86.5 | 70.114 | 68.968 | 66.259 | 65.946 | 66.780 |
| 87.0 | 58.341 | 57.820 | 55.841 | 56.049 | 57.299 |
| 87.5 | 46.881 | 47.090 | 45.631 | 46.569 | 48.131 |
| 88.0 | 35.942 | 36.672 | 35.942 | 37.401 | 38.755 |
| 88.5 | 25.837 | 26.774 | 26.254 | 26.774 | 26.879 |
| 89.0 | 17.294 | 17.919 | 17.815 | 18.440 | 19.794 |
| 89.5 | 11.772 | 10.939 | 11.460 | 13.648 | 15.210 |
| 90.0 | 6.980 | 5.626 | 6.355 | 8.230 | 9.272 |
| 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 : LRX5-4-L20-835-S-DMA-DRV-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 : LRX5-4-L20-835-S-DMA-DRV-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 : LRX5-4-L20-835-S-DMA-DRV-UNV.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1265.18 | N.A. | 15.80 |
| 0-30 | 2621.43 | N.A. | 32.70 |
| 0-40 | 4141.69 | N.A. | 51.60 |
| 0-60 | 6704.02 | N.A. | 83.60 |
| 0-80 | 7907.55 | N.A. | 98.60 |
| 0-90 | 8023.66 | N.A. | 100.00 |
| 10-90 | 7692.34 | N.A. | 95.90 |
| 20-40 | 2876.52 | N.A. | 35.80 |
| 20-50 | 4298.31 | N.A. | 53.60 |
| 40-70 | 3346.69 | N.A. | 41.70 |
| 60-80 | 1203.53 | N.A. | 15.00 |
| 70-80 | 419.17 | N.A. | 5.20 |
| 80-90 | 116.10 | N.A. | 1.40 |
| 90-110 | 0.19 | N.A. | 0.00 |
| 90-120 | 0.19 | N.A. | 0.00 |
| 90-130 | 0.19 | N.A. | 0.00 |
| 90-150 | 0.19 | N.A. | 0.00 |
| 90-180 | 0.19 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 8023.85 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 331.31 |
| 10-20 | 933.87 |
| 20-30 | 1356.25 |
| 30-40 | 1520.27 |
| 40-50 | 1421.8 |
| 50-60 | 1140.53 |
| 60-70 | 784.36 |
| 70-80 | 419.17 |
| 80-90 | 116.10 |
| 90-100 | 0.19 |
| 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 : LRX5-4-L20-835-S-DMA-DRV-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 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | 85 |
| 2 | 100 | 93 | 86 | 81 | 98 | 91 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 78 | 75 | 73 |
| 3 | 92 | 82 | 75 | 68 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 65 | 73 | 68 | 64 | 62 |
| 4 | 85 | 73 | 65 | 59 | 83 | 72 | 64 | 58 | 70 | 63 | 58 | 67 | 62 | 57 | 65 | 60 | 56 | 54 |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 |
| 6 | 73 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 45 | 56 | 49 | 44 | 54 | 48 | 44 | 42 |
| 7 | 68 | 55 | 46 | 40 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 39 | 37 |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 42 | 36 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 35 | 34 |
| 9 | 59 | 46 | 38 | 33 | 58 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 39 | 34 | 29 | 28 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LRX5-4-L20-835-S-DMA-DRV-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 | 21.3 | 22.9 | 21.7 | 23.2 | 23.5 | 20.0 | 21.6 | 20.4 | 21.9 | 22.2 |
| | 3H | 22.9 | 24.3 | 23.3 | 24.6 | 25.0 | 21.6 | 23.0 | 21.9 | 23.3 | 23.6 |
| | 4H | 23.4 | 24.8 | 23.8 | 25.1 | 25.5 | 22.1 | 23.4 | 22.5 | 23.8 | 24.1 |
| | 6H | 23.8 | 25.0 | 24.2 | 25.4 | 25.8 | 22.5 | 23.7 | 22.9 | 24.1 | 24.5 |
| | 8H | 24.0 | 25.1 | 24.4 | 25.5 | 25.9 | 22.7 | 23.8 | 23.1 | 24.2 | 24.6 |
| | 12H | 24.0 | 25.1 | 24.5 | 25.5 | 26.0 | 22.7 | 23.8 | 23.2 | 24.2 | 24.7 |

UGR Viewed Endwise

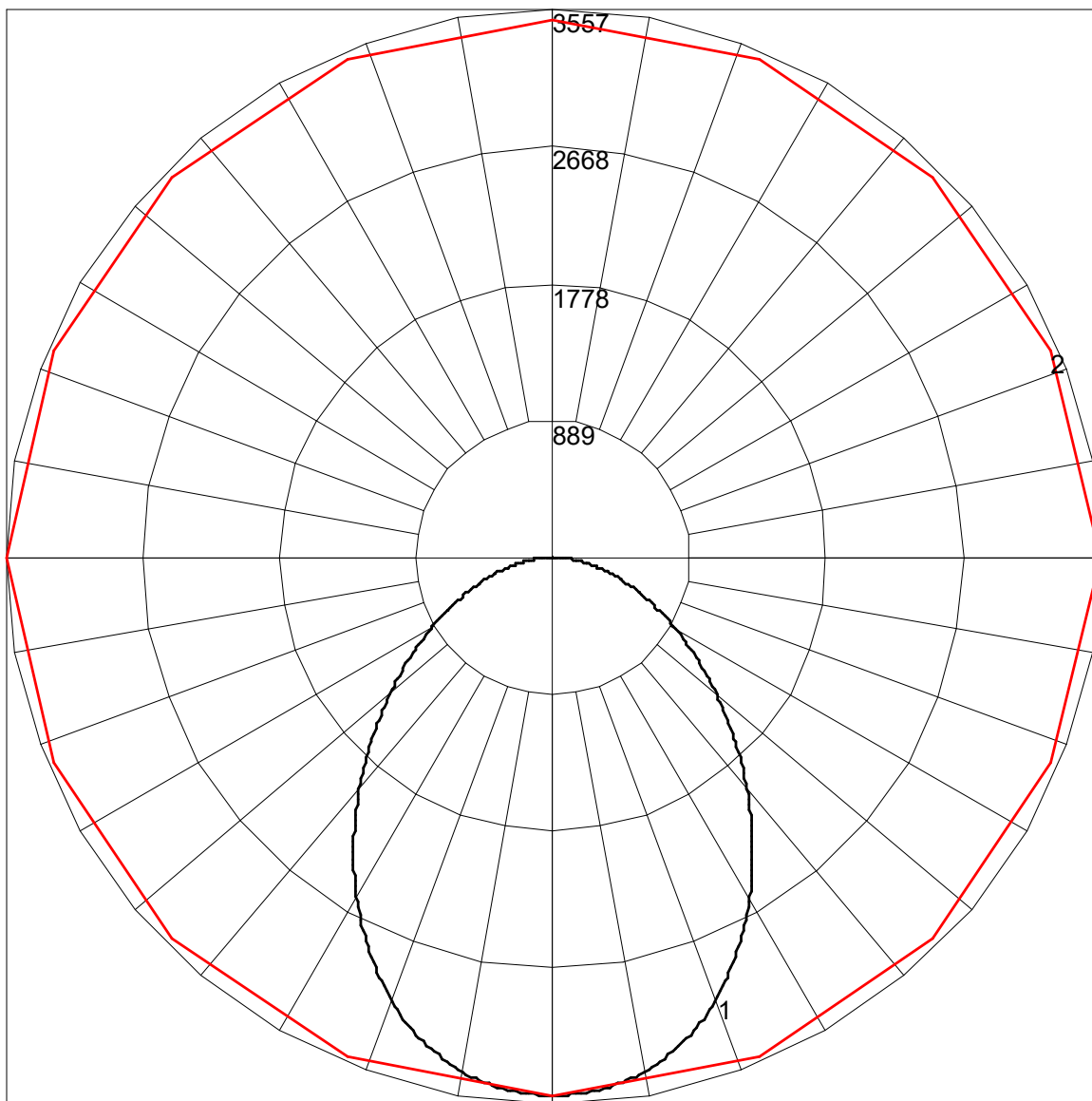
| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 4H | 2H | 21.7 | 23.0 | 22.1 | 23.4 | 23.8 | 20.7 | 22.0 | 21.1 | 22.3 | 22.7 |
| | 3H | 23.5 | 24.6 | 23.9 | 25.0 | 25.4 | 22.4 | 23.5 | 22.8 | 23.9 | 24.3 |
| | 4H | 24.2 | 25.2 | 24.6 | 25.6 | 26.0 | 23.1 | 24.0 | 23.5 | 24.5 | 24.9 |
| | 6H | 24.7 | 25.6 | 25.2 | 26.0 | 26.5 | 23.6 | 24.4 | 24.0 | 24.9 | 25.3 |
| | 8H | 24.9 | 25.7 | 25.3 | 26.1 | 26.6 | 23.8 | 24.6 | 24.2 | 25.0 | 25.5 |
| | 12H | 25.0 | 25.7 | 25.5 | 26.2 | 26.7 | 23.9 | 24.6 | 24.4 | 25.1 | 25.6 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 24.4 | 25.2 | 24.8 | 25.6 | 26.1 | 23.4 | 24.2 | 23.8 | 24.6 | 25.1 |
| | 6H | 25.0 | 25.7 | 25.5 | 26.2 | 26.6 | 24.0 | 24.7 | 24.5 | 25.2 | 25.6 |
| | 8H | 25.2 | 25.8 | 25.8 | 26.3 | 26.8 | 24.3 | 24.8 | 24.8 | 25.4 | 25.8 |
| | 12H | 25.4 | 26.0 | 25.9 | 26.4 | 27.0 | 24.4 | 25.0 | 25.0 | 25.5 | 26.0 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 24.4 | 25.1 | 24.9 | 25.6 | 26.1 | 23.4 | 24.1 | 23.9 | 24.6 | 25.1 |
| | 6H | 25.0 | 25.6 | 25.6 | 26.1 | 26.6 | 24.1 | 24.7 | 24.6 | 25.1 | 25.7 |
| | 8H | 25.3 | 25.8 | 25.8 | 26.3 | 26.9 | 24.3 | 24.9 | 24.9 | 25.4 | 25.9 |

Maximum UGR = 27.0

POLAR GRAPH



Maximum Candela = 3556.729 Located At Horizontal Angle = 0, Vertical Angle = .5

1 - Vertical Plane Through Horizontal Angles (90 - 270)

2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)