



IES INDOOR REPORT

PHOTOMETRIC FILENAME : R1-LED35-LO-LLP.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] R1-LED35-LO-SAL
 [TESTLAB] Intertek
 [ISSUE DATE] 11/21-19
 [MANUFAC] Prudential Lighting
 [_TOTALLUMINAIRELUMENS] 5,185.9

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2178 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 145 |
| Total Luminaire Watts | 15 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.76 |
| Spacing Criterion (90-270) | 1.88 |
| Spacing Criterion (Diagonal) | 1.74 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.19 ft |
| Luminous Height | 0.17 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 8120 | 5977 | 4488 |
| 55 | 8235 | 3600 | 2871 |
| 65 | 5722 | 2175 | 1749 |
| 75 | 3045 | 1465 | 1080 |
| 85 | 1306 | 1217 | 858 |

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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> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 |
| 2.5 | 356.790 | 359.100 | 364.644 | 372.498 | 374.598 | 371.196 | 362.376 | 357.756 | 357.000 | 357.756 |
| 5.0 | 356.958 | 368.928 | 396.060 | 426.804 | 436.968 | 423.402 | 391.692 | 366.240 | 357.546 | 366.240 |
| 7.5 | 357.294 | 385.308 | 450.408 | 523.194 | 550.284 | 518.994 | 444.066 | 380.856 | 358.680 | 380.856 |
| 10.0 | 358.050 | 407.988 | 530.964 | 664.944 | 719.250 | 660.072 | 522.480 | 402.024 | 360.108 | 402.024 |
| 12.5 | 359.058 | 438.102 | 638.988 | 845.166 | 923.832 | 838.782 | 627.480 | 430.752 | 361.914 | 430.752 |
| 15.0 | 360.696 | 476.154 | 767.760 | 1028.580 | 1108.884 | 1022.826 | 752.808 | 467.124 | 363.846 | 467.124 |
| 17.5 | 362.796 | 521.850 | 902.076 | 1156.638 | 1203.426 | 1153.908 | 886.284 | 510.468 | 366.366 | 510.468 |
| 20.0 | 365.694 | 573.930 | 1018.122 | 1187.340 | 1175.664 | 1186.332 | 1004.640 | 560.322 | 369.600 | 560.322 |
| 22.5 | 369.600 | 630.420 | 1092.252 | 1122.324 | 1062.222 | 1123.374 | 1081.878 | 615.678 | 373.506 | 615.678 |
| 25.0 | 374.430 | 688.170 | 1109.640 | 1004.556 | 931.014 | 1006.614 | 1103.886 | 672.420 | 377.958 | 672.420 |
| 27.5 | 379.806 | 741.006 | 1071.504 | 883.974 | 819.042 | 885.318 | 1070.664 | 725.088 | 383.124 | 725.088 |
| 30.0 | 386.064 | 783.762 | 993.426 | 783.174 | 734.034 | 784.476 | 995.820 | 769.020 | 389.046 | 769.020 |
| 32.5 | 393.162 | 811.650 | 898.170 | 703.794 | 668.640 | 704.844 | 902.076 | 798.504 | 395.640 | 798.504 |
| 35.0 | 400.008 | 821.478 | 802.620 | 638.400 | 612.738 | 639.030 | 806.526 | 809.802 | 402.066 | 809.802 |
| 37.5 | 406.812 | 812.616 | 713.748 | 579.264 | 559.272 | 580.020 | 715.176 | 801.570 | 407.862 | 801.570 |
| 40.0 | 412.944 | 785.526 | 632.184 | 524.118 | 507.738 | 524.202 | 630.882 | 774.942 | 412.566 | 774.942 |
| 42.5 | 416.892 | 741.972 | 557.172 | 472.836 | 460.740 | 472.374 | 554.400 | 731.808 | 414.498 | 731.808 |
| 45.0 | 417.144 | 684.894 | 488.712 | 425.838 | 418.068 | 425.208 | 484.890 | 675.570 | 412.104 | 675.570 |
| 47.5 | 412.020 | 617.904 | 427.224 | 382.914 | 377.328 | 381.948 | 420.168 | 609.168 | 404.040 | 609.168 |
| 50.0 | 399.126 | 545.454 | 372.078 | 342.174 | 337.008 | 341.292 | 359.940 | 537.012 | 388.122 | 537.012 |
| 52.5 | 377.916 | 472.164 | 323.022 | 302.526 | 297.234 | 301.392 | 309.246 | 463.050 | 364.056 | 463.050 |
| 55.0 | 349.020 | 401.478 | 279.342 | 265.062 | 260.610 | 260.526 | 269.010 | 392.028 | 331.926 | 392.028 |
| 57.5 | 311.472 | 337.092 | 241.122 | 231.252 | 227.682 | 223.398 | 232.932 | 326.676 | 292.698 | 326.676 |
| 60.0 | 268.338 | 280.350 | 207.648 | 201.264 | 198.492 | 194.754 | 200.886 | 268.758 | 249.900 | 268.758 |
| 62.5 | 225.414 | 231.588 | 178.878 | 174.972 | 172.578 | 170.310 | 173.586 | 220.332 | 207.270 | 220.332 |
| 65.0 | 183.708 | 190.596 | 154.602 | 152.124 | 149.814 | 148.302 | 150.150 | 180.936 | 167.034 | 180.936 |
| 67.5 | 144.690 | 156.912 | 134.274 | 132.216 | 129.654 | 129.024 | 130.536 | 148.386 | 131.208 | 148.386 |
| 70.0 | 112.098 | 129.486 | 117.180 | 114.786 | 111.846 | 112.182 | 113.946 | 119.028 | 100.968 | 119.028 |
| 72.5 | 85.764 | 106.890 | 103.026 | 99.918 | 96.642 | 97.776 | 100.422 | 100.254 | 76.272 | 100.254 |
| 75.0 | 63.504 | 88.410 | 91.392 | 87.738 | 84.168 | 85.932 | 89.502 | 83.874 | 56.154 | 83.874 |
| 77.5 | 45.234 | 73.458 | 82.110 | 78.162 | 74.424 | 76.734 | 80.388 | 69.804 | 39.900 | 69.804 |
| 80.0 | 31.290 | 61.278 | 74.508 | 70.980 | 67.368 | 69.846 | 72.912 | 58.170 | 26.880 | 58.170 |
| 82.5 | 20.412 | 51.240 | 68.250 | 65.562 | 62.202 | 64.554 | 66.864 | 48.678 | 16.716 | 48.678 |
| 85.0 | 11.718 | 43.134 | 63.042 | 61.194 | 58.170 | 60.396 | 61.866 | 41.118 | 8.988 | 41.118 |
| 87.5 | 5.418 | 36.792 | 58.632 | 57.582 | 54.726 | 56.826 | 57.498 | 35.112 | 3.528 | 35.112 |
| 90.0 | 0.000 | 31.752 | 54.684 | 54.390 | 51.660 | 53.676 | 53.676 | 30.408 | 0.000 | 30.408 |
| 92.5 | 0.000 | 27.972 | 51.156 | 51.618 | 49.056 | 50.946 | 50.316 | 26.880 | 0.000 | 26.880 |
| 95.0 | 0.000 | 25.032 | 47.964 | 49.140 | 46.914 | 48.510 | 47.208 | 24.108 | 0.000 | 24.108 |
| 97.5 | 0.000 | 22.596 | 45.066 | 46.956 | 45.066 | 46.326 | 44.310 | 21.798 | 0.000 | 21.798 |
| 100.0 | 0.000 | 20.538 | 42.294 | 45.024 | 43.470 | 44.436 | 41.580 | 19.782 | 0.000 | 19.782 |
| 102.5 | 0.000 | 18.480 | 39.648 | 43.218 | 42.126 | 42.714 | 39.018 | 17.766 | 0.000 | 17.766 |
| 105.0 | 0.000 | 16.212 | 37.212 | 41.580 | 40.950 | 41.118 | 36.582 | 15.666 | 0.000 | 15.666 |
| 107.5 | 0.000 | 14.532 | 34.860 | 39.942 | 39.690 | 39.522 | 34.272 | 13.902 | 0.000 | 13.902 |
| 110.0 | 0.000 | 13.188 | 32.550 | 38.304 | 38.304 | 37.926 | 31.920 | 11.886 | 0.000 | 11.886 |
| 112.5 | 0.000 | 12.096 | 29.988 | 36.540 | 36.834 | 36.162 | 28.854 | 10.248 | 0.000 | 10.248 |
| 115.0 | 0.000 | 11.130 | 27.300 | 34.608 | 35.238 | 34.272 | 24.612 | 8.904 | 0.000 | 8.904 |
| 117.5 | 0.000 | 10.374 | 24.864 | 32.550 | 33.558 | 32.172 | 21.000 | 7.812 | 0.000 | 7.812 |
| 120.0 | 0.000 | 9.702 | 22.722 | 30.156 | 31.668 | 29.820 | 18.060 | 6.972 | 0.000 | 6.972 |
| 122.5 | 0.000 | 9.114 | 20.874 | 27.762 | 29.358 | 27.384 | 15.708 | 6.342 | 0.000 | 6.342 |
| 125.0 | 0.000 | 8.568 | 19.194 | 25.578 | 27.132 | 24.360 | 13.776 | 5.922 | 0.000 | 5.922 |
| 127.5 | 0.000 | 8.064 | 17.682 | 23.604 | 25.032 | 21.042 | 12.264 | 5.754 | 0.000 | 5.754 |
| 130.0 | 0.000 | 7.686 | 16.380 | 21.798 | 23.142 | 18.270 | 10.962 | 5.754 | 0.000 | 5.754 |
| 132.5 | 0.000 | 7.266 | 15.204 | 20.118 | 21.420 | 15.918 | 9.828 | 5.712 | 0.000 | 5.712 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|--------|--------|--------|--------|-------|-------|-------|-------|
| 135.0 | 0.000 | 6.888 | 14.112 | 18.690 | 19.824 | 13.986 | 8.946 | 5.670 | 0.000 | 5.670 |
| 137.5 | 0.000 | 6.552 | 13.230 | 17.388 | 18.396 | 12.264 | 8.652 | 5.586 | 0.000 | 5.586 |
| 140.0 | 0.000 | 6.258 | 12.222 | 16.086 | 17.136 | 10.878 | 8.484 | 5.544 | 0.000 | 5.544 |
| 142.5 | 0.000 | 6.006 | 11.340 | 14.868 | 15.834 | 9.870 | 8.232 | 5.502 | 0.000 | 5.502 |
| 145.0 | 0.000 | 5.838 | 10.626 | 13.776 | 14.742 | 9.030 | 8.106 | 5.460 | 0.000 | 5.460 |
| 147.5 | 0.000 | 5.670 | 9.870 | 12.558 | 13.734 | 7.980 | 7.770 | 5.334 | 0.000 | 5.334 |
| 150.0 | 0.000 | 5.502 | 8.946 | 11.550 | 12.390 | 7.224 | 7.350 | 5.292 | 0.000 | 5.292 |
| 152.5 | 0.000 | 5.334 | 8.232 | 10.752 | 11.340 | 6.804 | 7.014 | 5.292 | 0.000 | 5.292 |
| 155.0 | 0.000 | 5.208 | 7.602 | 9.660 | 10.290 | 6.174 | 6.720 | 5.292 | 0.000 | 5.292 |
| 157.5 | 0.000 | 5.292 | 7.014 | 8.610 | 9.072 | 5.628 | 6.384 | 5.334 | 0.000 | 5.334 |
| 160.0 | 0.000 | 5.376 | 6.510 | 7.812 | 7.896 | 5.292 | 6.006 | 5.502 | 0.000 | 5.502 |
| 162.5 | 0.000 | 5.502 | 6.090 | 7.140 | 6.174 | 5.208 | 5.712 | 5.586 | 0.000 | 5.586 |
| 165.0 | 0.000 | 5.586 | 5.796 | 6.510 | 4.452 | 5.082 | 5.628 | 5.670 | 0.000 | 5.670 |
| 167.5 | 0.000 | 5.796 | 5.838 | 6.006 | 4.116 | 5.040 | 5.670 | 5.880 | 0.000 | 5.880 |
| 170.0 | 0.000 | 6.090 | 6.048 | 5.880 | 4.074 | 5.082 | 5.880 | 6.006 | 0.000 | 6.006 |
| 172.5 | 0.000 | 6.174 | 6.216 | 6.006 | 4.158 | 5.376 | 6.006 | 6.048 | 0.000 | 6.048 |
| 175.0 | 0.000 | 6.174 | 6.300 | 6.090 | 4.242 | 5.586 | 6.090 | 6.006 | 0.000 | 6.006 |
| 177.5 | 0.000 | 6.090 | 6.132 | 5.880 | 4.284 | 5.628 | 5.922 | 5.880 | 0.000 | 5.880 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert. Angles **Horizontal Angles**

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 | 354.942 |
| 2.5 | 362.376 | 371.196 | 374.598 | 372.498 | 364.644 | 359.100 | 356.790 |
| 5.0 | 391.692 | 423.402 | 436.968 | 426.804 | 396.060 | 368.928 | 356.958 |
| 7.5 | 444.066 | 518.994 | 550.284 | 523.194 | 450.408 | 385.308 | 357.294 |
| 10.0 | 522.480 | 660.072 | 719.250 | 664.944 | 530.964 | 407.988 | 358.050 |
| 12.5 | 627.480 | 838.782 | 923.832 | 845.166 | 638.988 | 438.102 | 359.058 |
| 15.0 | 752.808 | 1022.826 | 1108.884 | 1028.580 | 767.760 | 476.154 | 360.696 |
| 17.5 | 886.284 | 1153.908 | 1203.426 | 1156.638 | 902.076 | 521.850 | 362.796 |
| 20.0 | 1004.640 | 1186.332 | 1175.664 | 1187.340 | 1018.122 | 573.930 | 365.694 |
| 22.5 | 1081.878 | 1123.374 | 1062.222 | 1122.324 | 1092.252 | 630.420 | 369.600 |
| 25.0 | 1103.886 | 1006.614 | 931.014 | 1004.556 | 1109.640 | 688.170 | 374.430 |
| 27.5 | 1070.664 | 885.318 | 819.042 | 883.974 | 1071.504 | 741.006 | 379.806 |
| 30.0 | 995.820 | 784.476 | 734.034 | 783.174 | 993.426 | 783.762 | 386.064 |
| 32.5 | 902.076 | 704.844 | 668.640 | 703.794 | 898.170 | 811.650 | 393.162 |
| 35.0 | 806.526 | 639.030 | 612.738 | 638.400 | 802.620 | 821.478 | 400.008 |
| 37.5 | 715.176 | 580.020 | 559.272 | 579.264 | 713.748 | 812.616 | 406.812 |
| 40.0 | 630.882 | 524.202 | 507.738 | 524.118 | 632.184 | 785.526 | 412.944 |
| 42.5 | 554.400 | 472.374 | 460.740 | 472.836 | 557.172 | 741.972 | 416.892 |
| 45.0 | 484.890 | 425.208 | 418.068 | 425.838 | 488.712 | 684.894 | 417.144 |
| 47.5 | 420.168 | 381.948 | 377.328 | 382.914 | 427.224 | 617.904 | 412.020 |
| 50.0 | 359.940 | 341.292 | 337.008 | 342.174 | 372.078 | 545.454 | 399.126 |
| 52.5 | 309.246 | 301.392 | 297.234 | 302.526 | 323.022 | 472.164 | 377.916 |
| 55.0 | 269.010 | 260.526 | 260.610 | 265.062 | 279.342 | 401.478 | 349.020 |
| 57.5 | 232.932 | 223.398 | 227.682 | 231.252 | 241.122 | 337.092 | 311.472 |
| 60.0 | 200.886 | 194.754 | 198.492 | 201.264 | 207.648 | 280.350 | 268.338 |
| 62.5 | 173.586 | 170.310 | 172.578 | 174.972 | 178.878 | 231.588 | 225.414 |
| 65.0 | 150.150 | 148.302 | 149.814 | 152.124 | 154.602 | 190.596 | 183.708 |
| 67.5 | 130.536 | 129.024 | 129.654 | 132.216 | 134.274 | 156.912 | 144.690 |
| 70.0 | 113.946 | 112.182 | 111.846 | 114.786 | 117.180 | 129.486 | 112.098 |
| 72.5 | 100.422 | 97.776 | 96.642 | 99.918 | 103.026 | 106.890 | 85.764 |
| 75.0 | 89.502 | 85.932 | 84.168 | 87.738 | 91.392 | 88.410 | 63.504 |
| 77.5 | 80.388 | 76.734 | 74.424 | 78.162 | 82.110 | 73.458 | 45.234 |
| 80.0 | 72.912 | 69.846 | 67.368 | 70.980 | 74.508 | 61.278 | 31.290 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 82.5 | 66.864 | 64.554 | 62.202 | 65.562 | 68.250 | 51.240 | 20.412 |
| 85.0 | 61.866 | 60.396 | 58.170 | 61.194 | 63.042 | 43.134 | 11.718 |
| 87.5 | 57.498 | 56.826 | 54.726 | 57.582 | 58.632 | 36.792 | 5.418 |
| 90.0 | 53.676 | 53.676 | 51.660 | 54.390 | 54.684 | 31.752 | 0.000 |
| 92.5 | 50.316 | 50.946 | 49.056 | 51.618 | 51.156 | 27.972 | 0.000 |
| 95.0 | 47.208 | 48.510 | 46.914 | 49.140 | 47.964 | 25.032 | 0.000 |
| 97.5 | 44.310 | 46.326 | 45.066 | 46.956 | 45.066 | 22.596 | 0.000 |
| 100.0 | 41.580 | 44.436 | 43.470 | 45.024 | 42.294 | 20.538 | 0.000 |
| 102.5 | 39.018 | 42.714 | 42.126 | 43.218 | 39.648 | 18.480 | 0.000 |
| 105.0 | 36.582 | 41.118 | 40.950 | 41.580 | 37.212 | 16.212 | 0.000 |
| 107.5 | 34.272 | 39.522 | 39.690 | 39.942 | 34.860 | 14.532 | 0.000 |
| 110.0 | 31.920 | 37.926 | 38.304 | 38.304 | 32.550 | 13.188 | 0.000 |
| 112.5 | 28.854 | 36.162 | 36.834 | 36.540 | 29.988 | 12.096 | 0.000 |
| 115.0 | 24.612 | 34.272 | 35.238 | 34.608 | 27.300 | 11.130 | 0.000 |
| 117.5 | 21.000 | 32.172 | 33.558 | 32.550 | 24.864 | 10.374 | 0.000 |
| 120.0 | 18.060 | 29.820 | 31.668 | 30.156 | 22.722 | 9.702 | 0.000 |
| 122.5 | 15.708 | 27.384 | 29.358 | 27.762 | 20.874 | 9.114 | 0.000 |
| 125.0 | 13.776 | 24.360 | 27.132 | 25.578 | 19.194 | 8.568 | 0.000 |
| 127.5 | 12.264 | 21.042 | 25.032 | 23.604 | 17.682 | 8.064 | 0.000 |
| 130.0 | 10.962 | 18.270 | 23.142 | 21.798 | 16.380 | 7.686 | 0.000 |
| 132.5 | 9.828 | 15.918 | 21.420 | 20.118 | 15.204 | 7.266 | 0.000 |
| 135.0 | 8.946 | 13.986 | 19.824 | 18.690 | 14.112 | 6.888 | 0.000 |
| 137.5 | 8.652 | 12.264 | 18.396 | 17.388 | 13.230 | 6.552 | 0.000 |
| 140.0 | 8.484 | 10.878 | 17.136 | 16.086 | 12.222 | 6.258 | 0.000 |
| 142.5 | 8.232 | 9.870 | 15.834 | 14.868 | 11.340 | 6.006 | 0.000 |
| 145.0 | 8.106 | 9.030 | 14.742 | 13.776 | 10.626 | 5.838 | 0.000 |
| 147.5 | 7.770 | 7.980 | 13.734 | 12.558 | 9.870 | 5.670 | 0.000 |
| 150.0 | 7.350 | 7.224 | 12.390 | 11.550 | 8.946 | 5.502 | 0.000 |
| 152.5 | 7.014 | 6.804 | 11.340 | 10.752 | 8.232 | 5.334 | 0.000 |
| 155.0 | 6.720 | 6.174 | 10.290 | 9.660 | 7.602 | 5.208 | 0.000 |
| 157.5 | 6.384 | 5.628 | 9.072 | 8.610 | 7.014 | 5.292 | 0.000 |
| 160.0 | 6.006 | 5.292 | 7.896 | 7.812 | 6.510 | 5.376 | 0.000 |
| 162.5 | 5.712 | 5.208 | 6.174 | 7.140 | 6.090 | 5.502 | 0.000 |
| 165.0 | 5.628 | 5.082 | 4.452 | 6.510 | 5.796 | 5.586 | 0.000 |
| 167.5 | 5.670 | 5.040 | 4.116 | 6.006 | 5.838 | 5.796 | 0.000 |
| 170.0 | 5.880 | 5.082 | 4.074 | 5.880 | 6.048 | 6.090 | 0.000 |
| 172.5 | 6.006 | 5.376 | 4.158 | 6.006 | 6.216 | 6.174 | 0.000 |
| 175.0 | 6.090 | 5.586 | 4.242 | 6.090 | 6.300 | 6.174 | 0.000 |
| 177.5 | 5.922 | 5.628 | 4.284 | 5.880 | 6.132 | 6.090 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 255.31 | N.A. | 11.70 |
| 0-30 | 647.51 | N.A. | 29.70 |
| 0-40 | 1079.06 | N.A. | 49.50 |
| 0-60 | 1743.11 | N.A. | 80.00 |
| 0-80 | 1997.73 | N.A. | 91.70 |
| 0-90 | 2053.07 | N.A. | 94.30 |
| 10-90 | 2010.92 | N.A. | 92.30 |
| 20-40 | 823.76 | N.A. | 37.80 |
| 20-50 | 1210.36 | N.A. | 55.60 |
| 40-70 | 827.99 | N.A. | 38.00 |
| 60-80 | 254.61 | N.A. | 11.70 |
| 70-80 | 90.68 | N.A. | 4.20 |
| 80-90 | 55.34 | N.A. | 2.50 |
| 90-110 | 70.08 | N.A. | 3.20 |
| 90-120 | 92.01 | N.A. | 4.20 |
| 90-130 | 106.11 | N.A. | 4.90 |
| 90-150 | 120.08 | N.A. | 5.50 |
| 90-180 | 124.95 | N.A. | 5.70 |
| 110-180 | 54.87 | N.A. | 2.50 |
| 0-180 | 2178.02 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 42.15 |
| 10-20 | 213.16 |
| 20-30 | 392.21 |
| 30-40 | 431.55 |
| 40-50 | 386.61 |
| 50-60 | 277.44 |
| 60-70 | 163.94 |
| 70-80 | 90.68 |
| 80-90 | 55.34 |
| 90-100 | 39.65 |
| 100-110 | 30.43 |
| 110-120 | 21.93 |
| 120-130 | 14.10 |
| 130-140 | 8.65 |
| 140-150 | 5.32 |
| 150-160 | 2.98 |
| 160-170 | 1.43 |
| 170-180 | 0.46 |

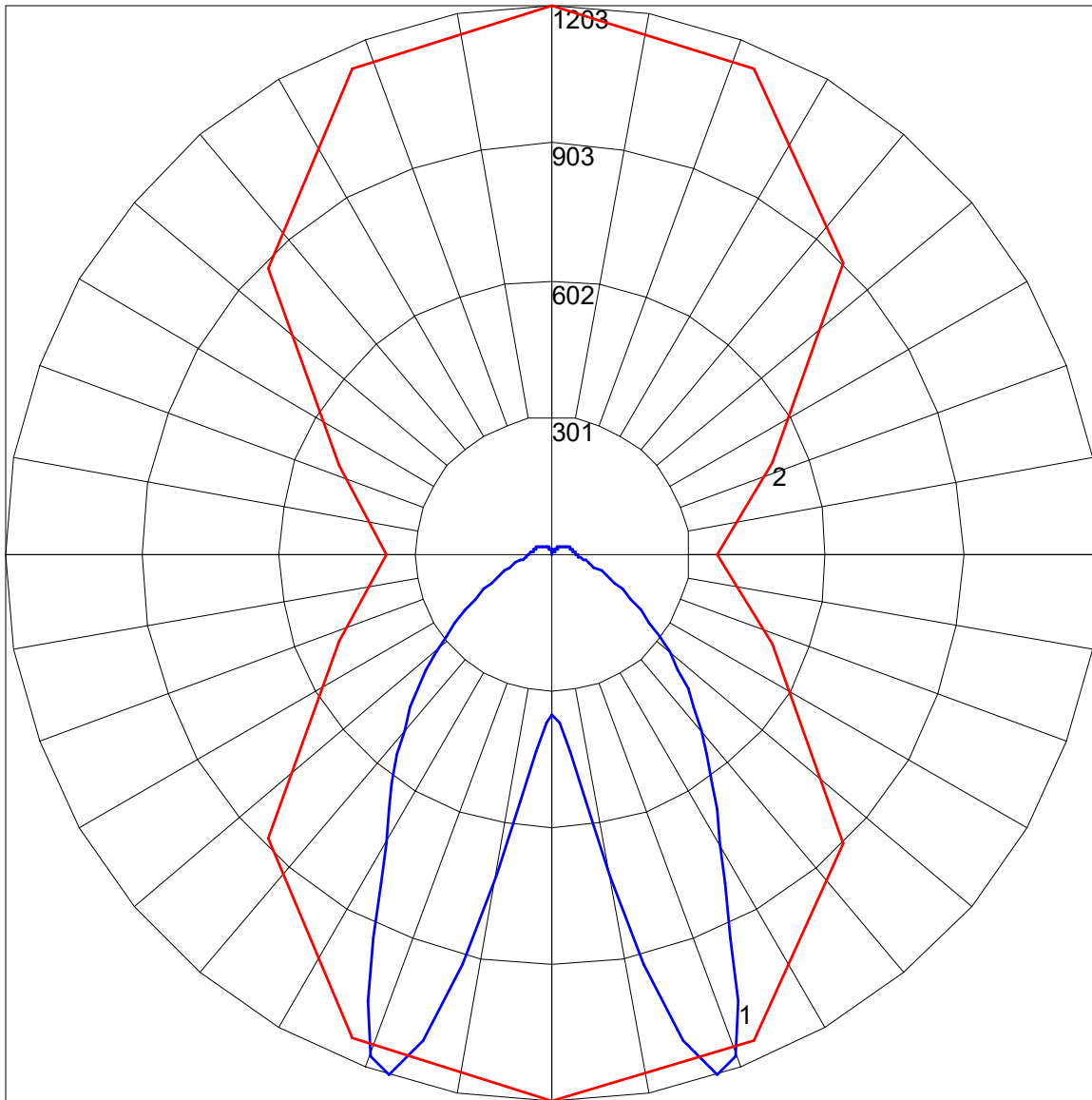
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 118 | 118 | 118 | 118 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 97 | 97 | 97 | 94 |
| 1 | 108 | 104 | 100 | 96 | 105 | 101 | 97 | 94 | 95 | 92 | 90 | 91 | 88 | 86 | 86 | 84 | 83 | 80 |
| 2 | 99 | 91 | 85 | 80 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 80 | 77 | 73 | 77 | 73 | 71 | 68 |
| 3 | 91 | 81 | 73 | 67 | 88 | 79 | 72 | 66 | 75 | 69 | 64 | 72 | 67 | 63 | 69 | 64 | 61 | 59 |
| 4 | 84 | 72 | 64 | 58 | 81 | 71 | 63 | 57 | 67 | 61 | 56 | 64 | 59 | 54 | 62 | 57 | 53 | 51 |
| 5 | 77 | 65 | 56 | 50 | 75 | 63 | 55 | 50 | 61 | 54 | 48 | 58 | 52 | 47 | 56 | 51 | 46 | 44 |
| 6 | 71 | 59 | 50 | 44 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | 53 | 47 | 42 | 51 | 45 | 41 | 39 |
| 7 | 66 | 53 | 45 | 39 | 64 | 52 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 37 | 46 | 41 | 37 | 35 |
| 8 | 61 | 48 | 40 | 35 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 9 | 57 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 42 | 35 | 30 | 41 | 34 | 30 | 39 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 28 | 39 | 32 | 28 | 37 | 31 | 27 | 36 | 31 | 27 | 25 |

POLAR GRAPH



Maximum Candela = 1203.426 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)