



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HSS-LED4-MO-04-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L021506201
 [TESTLAB] LIGHT LABORATORY, INC.
 [ISSUE DATE] 2/23/2015
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] HSS-LED4-MO-04-SAL-1
 [LUMINAIRE] 1-3/4"L. X 48-1/4"W. X 3"H. LED LINEAR DIRECT LUMINAIRE
 [MORE] DIFFUSED LENS
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2503 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 114 |
| Total Luminaire Watts | 22 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.46 |
| Spacing Criterion (90-270) | 1.18 |
| Spacing Criterion (Diagonal) | 1.48 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.13 ft |
| Luminous Width (90-270) | 4.00 ft |
| Luminous Height | 0.14 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6474 | 6609 | 8681 |
| 55 | 5939 | 5887 | 7837 |
| 65 | 5431 | 5204 | 6959 |
| 75 | 4936 | 4560 | 5878 |
| 85 | 4413 | 3942 | 3964 |

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CANDELA TABULATION

| | 0 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
|------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 |
| 5 | 532.467 | 532.467 | 532.298 | 532.025 | 531.583 | 530.972 | 530.426 | 529.594 | 528.710 | 527.826 |
| 10 | 537.654 | 537.654 | 537.147 | 536.601 | 535.769 | 534.664 | 533.455 | 531.856 | 530.153 | 528.437 |
| 15 | 537.316 | 537.043 | 536.549 | 535.613 | 534.235 | 532.571 | 530.595 | 528.268 | 525.564 | 522.756 |
| 20 | 531.804 | 531.531 | 530.699 | 529.425 | 527.605 | 525.187 | 522.535 | 519.285 | 515.593 | 511.732 |
| 25 | 522.431 | 521.989 | 520.884 | 519.168 | 516.750 | 513.604 | 510.120 | 505.830 | 501.020 | 496.119 |
| 30 | 509.964 | 509.301 | 507.975 | 505.661 | 502.736 | 498.823 | 494.299 | 488.943 | 482.937 | 476.866 |
| 35 | 494.962 | 494.403 | 492.531 | 489.775 | 486.018 | 481.338 | 475.605 | 469.144 | 464.074 | 457.457 |
| 40 | 478.192 | 477.425 | 475.384 | 472.017 | 467.493 | 461.591 | 454.922 | 447.915 | 439.478 | 430.157 |
| 45 | 459.771 | 458.887 | 456.521 | 452.595 | 447.473 | 440.570 | 432.744 | 424.307 | 414.154 | 403.676 |
| 50 | 440.024 | 439.140 | 436.280 | 431.808 | 425.633 | 417.638 | 408.811 | 399.152 | 387.569 | 375.986 |
| 55 | 418.067 | 417.027 | 413.881 | 408.811 | 401.804 | 393.250 | 383.214 | 372.567 | 359.658 | 346.593 |
| 60 | 393.913 | 392.756 | 389.285 | 383.708 | 376.272 | 366.834 | 356.239 | 344.604 | 330.655 | 316.589 |
| 65 | 367.328 | 366.171 | 362.583 | 356.681 | 348.803 | 338.871 | 327.457 | 315.432 | 300.599 | 285.649 |
| 70 | 338.871 | 337.662 | 333.905 | 327.899 | 319.566 | 309.478 | 297.674 | 284.765 | 269.763 | 254.592 |
| 75 | 310.076 | 308.867 | 305.006 | 299.052 | 290.836 | 280.579 | 268.606 | 255.086 | 240.526 | 224.536 |
| 80 | 278.746 | 277.589 | 273.897 | 267.995 | 259.948 | 249.795 | 237.991 | 224.536 | 209.924 | 194.480 |
| 85 | 247.533 | 246.324 | 242.905 | 237.276 | 229.502 | 219.622 | 208.377 | 195.364 | 181.012 | 165.906 |
| 90 | 219.739 | 218.634 | 215.267 | 210.145 | 202.800 | 193.544 | 182.728 | 170.313 | 156.637 | 142.077 |
| 95 | 204.958 | 204.022 | 201.045 | 196.300 | 189.618 | 181.233 | 171.262 | 159.783 | 147.095 | 133.588 |
| 100 | 191.945 | 191.061 | 188.305 | 183.885 | 177.983 | 170.157 | 161.213 | 150.800 | 139.048 | 126.581 |
| 105 | 179.361 | 178.477 | 176.111 | 172.081 | 166.790 | 159.614 | 151.450 | 141.804 | 131.105 | 119.574 |
| 110 | 166.894 | 166.179 | 163.917 | 160.329 | 155.532 | 148.915 | 141.531 | 132.756 | 122.824 | 112.190 |
| 115 | 154.544 | 153.933 | 151.957 | 148.694 | 144.287 | 138.385 | 131.599 | 123.552 | 114.504 | 104.741 |
| 120 | 142.415 | 141.908 | 140.088 | 137.228 | 133.198 | 127.790 | 121.615 | 114.283 | 106.067 | 97.019 |
| 125 | 130.611 | 130.052 | 128.401 | 125.814 | 122.057 | 117.208 | 111.579 | 105.014 | 97.461 | 89.297 |
| 130 | 118.690 | 118.248 | 116.766 | 114.387 | 110.968 | 106.665 | 101.543 | 95.589 | 88.803 | 81.081 |
| 135 | 107.003 | 106.509 | 105.066 | 102.921 | 99.944 | 96.135 | 91.611 | 86.047 | 78.429 | 70.317 |
| 140 | 94.978 | 94.640 | 93.379 | 91.507 | 88.751 | 85.384 | 80.743 | 73.684 | 66.898 | 60.008 |
| 145 | 82.953 | 82.628 | 81.575 | 79.859 | 77.441 | 73.307 | 67.236 | 61.659 | 56.043 | 50.687 |
| 150 | 70.486 | 70.161 | 69.277 | 67.730 | 64.636 | 59.345 | 54.886 | 50.635 | 46.826 | 43.407 |
| 155 | 58.136 | 58.019 | 57.252 | 55.536 | 50.635 | 46.943 | 43.680 | 41.483 | 39.221 | 36.400 |
| 160 | 45.994 | 45.721 | 45.123 | 41.197 | 38.220 | 35.854 | 34.853 | 33.540 | 31.330 | 27.794 |
| 165 | 33.761 | 33.592 | 30.719 | 28.301 | 26.702 | 26.195 | 25.259 | 23.881 | 22.009 | 20.462 |
| 170 | 21.177 | 19.695 | 17.433 | 16.601 | 17.160 | 17.212 | 16.718 | 16.107 | 15.275 | 14.339 |
| 175 | 10.595 | 8.827 | 8.775 | 9.269 | 9.594 | 9.594 | 9.438 | 9.152 | 8.827 | 8.437 |
| 180 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

| Vert. Angles | Horizontal Angles | | | | | | | | | |
|-------------------------|--------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--|
| | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | |
| 0 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | 526.110 | |
| 5 | 526.838 | 525.681 | 524.914 | 523.913 | 523.250 | 522.808 | 522.366 | 522.145 | 522.093 | |
| 10 | 526.175 | 524.030 | 521.768 | 519.285 | 516.750 | 514.488 | 512.668 | 511.836 | 511.394 | |
| 15 | 519.662 | 516.243 | 512.720 | 509.080 | 505.388 | 501.527 | 497.770 | 495.456 | 494.845 | |
| 20 | 507.429 | 502.905 | 498.212 | 493.246 | 488.059 | 482.989 | 477.750 | 473.616 | 472.342 | |
| 25 | 490.438 | 484.757 | 478.803 | 473.122 | 468.156 | 463.190 | 457.561 | 451.828 | 449.839 | |
| 30 | 471.744 | 466.934 | 458.003 | 448.682 | 440.362 | 432.523 | 424.697 | 417.352 | 413.998 | |
| 35 | 446.693 | 437.814 | 428.935 | 419.952 | 410.904 | 401.804 | 392.808 | 384.098 | 379.691 | |
| 40 | 420.173 | 410.241 | 399.932 | 389.337 | 379.080 | 368.771 | 358.449 | 348.907 | 343.057 | |
| 45 | 392.262 | 381.121 | 369.200 | 357.240 | 345.657 | 334.399 | 323.869 | 314.002 | 307.216 | |
| 50 | 363.311 | 350.506 | 338.156 | 327.184 | 311.896 | 298.558 | 286.260 | 274.729 | 266.617 | |
| 55 | 332.969 | 318.955 | 304.785 | 290.108 | 276.055 | 262.314 | 249.132 | 236.730 | 228.228 | |
| 60 | 301.860 | 286.754 | 271.466 | 255.645 | 242.021 | 229.281 | 213.564 | 199.940 | 190.502 | |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 65 | 270.036 | 254.098 | 238.160 | 221.663 | 206.219 | 191.061 | 176.436 | 163.202 | 152.893 |
| 70 | 238.329 | 222.105 | 205.400 | 188.084 | 171.860 | 155.701 | 140.699 | 127.023 | 116.155 |
| 75 | 208.156 | 191.217 | 174.018 | 156.260 | 139.594 | 122.993 | 107.497 | 93.873 | 83.174 |
| 80 | 177.762 | 160.771 | 143.455 | 125.593 | 108.823 | 92.274 | 76.557 | 62.491 | 50.960 |
| 85 | 149.474 | 132.704 | 115.440 | 97.682 | 80.912 | 64.532 | 48.867 | 34.632 | 23.387 |
| 90 | 126.191 | 109.811 | 92.989 | 75.621 | 59.124 | 42.913 | 27.300 | 13.234 | 1.768 |
| 95 | 118.690 | 103.467 | 87.698 | 71.266 | 55.705 | 40.378 | 25.649 | 12.246 | 1.547 |
| 100 | 112.788 | 98.501 | 83.720 | 68.224 | 53.391 | 38.779 | 24.713 | 11.804 | 0.000 |
| 105 | 106.665 | 93.327 | 79.482 | 64.857 | 50.908 | 37.115 | 23.608 | 10.816 | 0.000 |
| 110 | 100.217 | 87.919 | 74.789 | 61.386 | 48.321 | 35.360 | 22.061 | 9.984 | 0.000 |
| 115 | 93.821 | 82.407 | 70.161 | 57.694 | 45.552 | 32.981 | 20.852 | 9.269 | 0.000 |
| 120 | 86.866 | 76.505 | 65.364 | 53.937 | 42.354 | 30.888 | 19.630 | 8.268 | 0.000 |
| 125 | 80.197 | 70.538 | 60.060 | 48.867 | 38.168 | 27.859 | 17.264 | 7.280 | 0.000 |
| 130 | 71.812 | 62.439 | 52.676 | 42.744 | 33.696 | 24.713 | 14.560 | 6.669 | 0.000 |
| 135 | 62.270 | 54.002 | 45.721 | 37.505 | 29.679 | 21.450 | 12.636 | 6.071 | 0.000 |
| 140 | 53.118 | 46.384 | 39.819 | 32.539 | 25.753 | 17.706 | 11.089 | 5.681 | 0.000 |
| 145 | 45.721 | 40.703 | 33.982 | 27.859 | 21.229 | 15.171 | 9.984 | 5.356 | 0.000 |
| 150 | 39.494 | 34.359 | 28.951 | 22.997 | 17.810 | 13.351 | 9.152 | 5.356 | 0.000 |
| 155 | 32.318 | 27.690 | 23.387 | 19.253 | 15.496 | 11.973 | 8.216 | 5.408 | 0.000 |
| 160 | 24.713 | 21.840 | 18.863 | 15.990 | 13.299 | 10.426 | 7.397 | 5.460 | 0.000 |
| 165 | 18.694 | 16.822 | 14.898 | 12.961 | 10.920 | 8.606 | 6.838 | 5.577 | 0.000 |
| 170 | 13.299 | 12.194 | 10.972 | 9.659 | 8.216 | 7.007 | 6.071 | 5.408 | 0.000 |
| 175 | 7.995 | 7.501 | 7.007 | 6.565 | 6.175 | 5.798 | 5.512 | 5.291 | 0.000 |
| 180 | 0.000 | 0.000 | 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 | 197.06 | N.A. | 7.90 |
| 0-30 | 423.91 | N.A. | 16.90 |
| 0-40 | 704.76 | N.A. | 28.20 |
| 0-60 | 1313.97 | N.A. | 52.50 |
| 0-80 | 1815.17 | N.A. | 72.50 |
| 0-90 | 1985.3 | N.A. | 79.30 |
| 10-90 | 1935.00 | N.A. | 77.30 |
| 20-40 | 507.70 | N.A. | 20.30 |
| 20-50 | 813.81 | N.A. | 32.50 |
| 40-70 | 883.63 | N.A. | 35.30 |
| 60-80 | 501.20 | N.A. | 20.00 |
| 70-80 | 226.78 | N.A. | 9.10 |
| 80-90 | 170.13 | N.A. | 6.80 |
| 90-110 | 248.67 | N.A. | 9.90 |
| 90-120 | 342.56 | N.A. | 13.70 |
| 90-130 | 414.45 | N.A. | 16.60 |
| 90-150 | 495.09 | N.A. | 19.80 |
| 90-180 | 517.28 | N.A. | 20.70 |
| 110-180 | 268.61 | N.A. | 10.70 |
| 0-180 | 2502.58 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 50.30 |
| 10-20 | 146.76 |
| 20-30 | 226.85 |
| 30-40 | 280.84 |
| 40-50 | 306.11 |
| 50-60 | 303.10 |
| 60-70 | 274.42 |
| 70-80 | 226.78 |
| 80-90 | 170.13 |
| 90-100 | 133.85 |
| 100-110 | 114.82 |
| 110-120 | 93.89 |
| 120-130 | 71.90 |
| 130-140 | 50.01 |
| 140-150 | 30.62 |
| 150-160 | 15.66 |
| 160-170 | 5.69 |
| 170-180 | 0.83 |

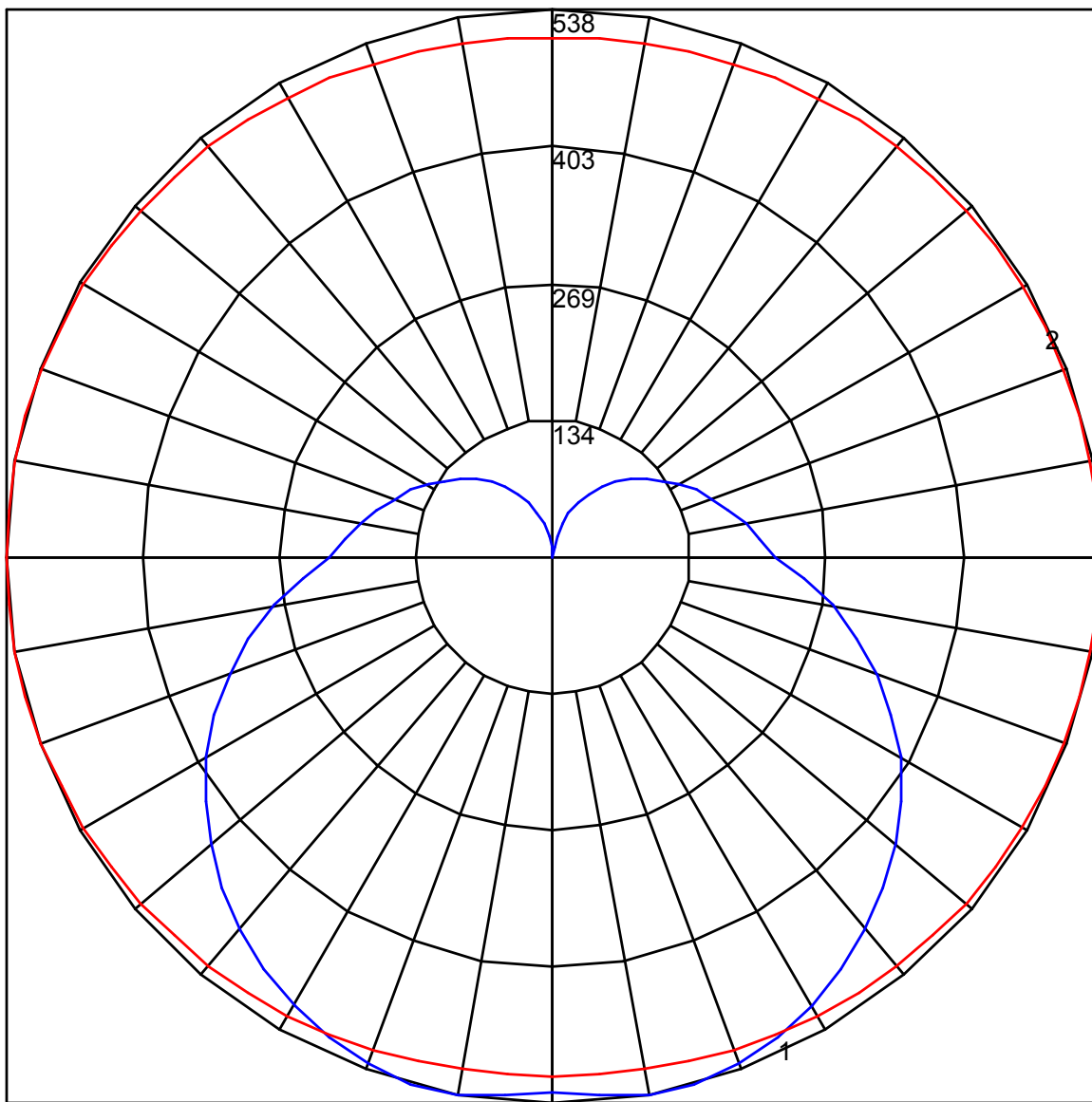
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 114 | 114 | 114 | 114 | 109 | 109 | 109 | 109 | 100 | 100 | 100 | 91 | 91 | 91 | 83 | 83 | 83 | 79 |
| 1 | 101 | 95 | 90 | 86 | 96 | 91 | 86 | 82 | 83 | 79 | 76 | 76 | 73 | 70 | 69 | 66 | 64 | 61 |
| 2 | 91 | 82 | 74 | 68 | 86 | 78 | 71 | 65 | 71 | 65 | 60 | 65 | 60 | 56 | 59 | 55 | 52 | 48 |
| 3 | 82 | 71 | 62 | 55 | 78 | 68 | 60 | 53 | 62 | 55 | 50 | 56 | 51 | 46 | 51 | 47 | 43 | 40 |
| 4 | 75 | 62 | 53 | 46 | 71 | 60 | 51 | 44 | 54 | 47 | 42 | 50 | 44 | 39 | 45 | 40 | 36 | 33 |
| 5 | 69 | 55 | 46 | 39 | 65 | 53 | 44 | 38 | 48 | 41 | 35 | 44 | 38 | 33 | 40 | 35 | 31 | 28 |
| 6 | 63 | 50 | 40 | 34 | 60 | 47 | 39 | 33 | 44 | 36 | 31 | 40 | 34 | 29 | 36 | 31 | 27 | 24 |
| 7 | 59 | 45 | 36 | 29 | 56 | 43 | 34 | 29 | 39 | 32 | 27 | 36 | 30 | 25 | 33 | 28 | 24 | 21 |
| 8 | 54 | 41 | 32 | 26 | 52 | 39 | 31 | 25 | 36 | 29 | 24 | 33 | 27 | 23 | 30 | 25 | 21 | 19 |
| 9 | 51 | 37 | 29 | 23 | 48 | 36 | 28 | 23 | 33 | 26 | 21 | 30 | 24 | 20 | 28 | 23 | 19 | 17 |
| 10 | 47 | 34 | 26 | 21 | 45 | 33 | 25 | 20 | 30 | 24 | 19 | 28 | 22 | 18 | 26 | 21 | 17 | 15 |

POLAR GRAPH



Maximum Candela = 537.654 Located At Horizontal Angle = 0, Vertical Angle = 10

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)