



IES INDOOR REPORT

PHOTOMETRIC FILENAME : STOV-LED35-MO-D1-NU.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] L051506801
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC] PRUDENTIAL LTG.
 [LUMCAT] STROV-LED35-MO
 [LUMINAIRE] 49"L. X 5"W. X 4-1/4"H. LED LUMINAIRE
 [MORE] WHITE REFLECTOR
 [BALLASTCAT] OSRAM OPTOTRONIC
 [BALLAST] INPUT: 120-277VAC
 [LAMPPOSITION] 0,0
 [LAMPCAT] N/A
 [OTHER] INDICATING THE CANDELA VALUES ARE ABSOLUTE AND
 [MORE] SHOULD NOT BE FACTORED FOR DIFFERENT LAMP RATINGS.
 [INPUT] 120VAC
 [TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2652 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 111 |
| Total Luminaire Watts | 24 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.24 |
| Spacing Criterion (Diagonal) | 1.38 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 3.88 ft |
| Luminous Width (90-270) | 0.21 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 | 11845 | 11305 | 11235 |
| 55 | 11708 | 11184 | 11076 |
| 65 | 11743 | 11242 | 10635 |
| 75 | 11250 | 9554 | 7003 |
| 85 | 9617 | 4793 | 4404 |

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CANDELA TABULATION

| | <u>0</u> | <u>5</u> | <u>10</u> | <u>15</u> | <u>20</u> | <u>25</u> | <u>30</u> | <u>35</u> | <u>40</u> | <u>45</u> |
|-----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 |
| 5 | 907.470 | 907.083 | 906.439 | 905.694 | 905.924 | 906.513 | 907.092 | 907.175 | 906.218 | 905.961 |
| 10 | 896.135 | 895.280 | 894.148 | 892.740 | 892.547 | 892.621 | 892.593 | 892.133 | 891.011 | 890.450 |
| 15 | 877.662 | 876.410 | 874.708 | 872.721 | 871.985 | 871.553 | 870.817 | 869.750 | 868.176 | 867.174 |
| 20 | 852.803 | 851.120 | 848.516 | 846.078 | 844.790 | 843.686 | 842.435 | 841.009 | 838.828 | 837.329 |
| 25 | 820.898 | 818.717 | 815.654 | 812.562 | 810.980 | 809.296 | 807.484 | 805.672 | 803.224 | 801.127 |
| 30 | 783.040 | 780.464 | 776.719 | 773.481 | 771.448 | 769.405 | 767.262 | 764.676 | 761.870 | 759.616 |
| 35 | 739.450 | 736.423 | 732.200 | 728.401 | 726.018 | 723.608 | 720.958 | 718.115 | 715.162 | 712.936 |
| 40 | 689.871 | 686.449 | 681.904 | 677.764 | 674.995 | 672.189 | 669.530 | 666.384 | 663.633 | 661.324 |
| 45 | 634.588 | 630.798 | 625.867 | 621.920 | 618.847 | 615.995 | 613.070 | 609.877 | 607.559 | 605.682 |
| 50 | 574.347 | 570.382 | 565.395 | 561.402 | 558.274 | 555.616 | 552.690 | 550.031 | 548.338 | 547.087 |
| 55 | 508.815 | 504.822 | 499.900 | 496.294 | 493.543 | 491.354 | 488.943 | 487.149 | 486.211 | 486.054 |
| 60 | 447.985 | 444.121 | 439.466 | 436.374 | 434.093 | 432.354 | 430.946 | 430.072 | 429.640 | 429.079 |
| 65 | 376.013 | 372.250 | 368.138 | 365.976 | 364.854 | 363.980 | 363.455 | 362.756 | 361.799 | 359.978 |
| 70 | 300.076 | 296.810 | 293.774 | 292.854 | 292.845 | 292.689 | 291.888 | 289.901 | 286.626 | 282.394 |
| 75 | 220.616 | 218.574 | 217.672 | 218.592 | 218.804 | 217.267 | 213.210 | 206.393 | 197.763 | 187.358 |
| 80 | 141.395 | 140.870 | 142.738 | 143.226 | 139.546 | 130.631 | 117.778 | 104.705 | 93.996 | 85.956 |
| 85 | 63.508 | 65.835 | 64.602 | 54.298 | 44.335 | 38.364 | 35.521 | 33.856 | 32.632 | 31.648 |
| 90 | 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>50</u> | <u>55</u> | <u>60</u> | <u>65</u> | <u>70</u> | <u>75</u> | <u>80</u> | <u>85</u> | <u>90</u> |
|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 | 912.364 |
| 5 | 905.464 | 905.032 | 904.719 | 903.219 | 901.959 | 901.876 | 902.419 | 903.201 | 903.302 |
| 10 | 889.235 | 888.591 | 887.929 | 886.070 | 884.957 | 884.516 | 884.635 | 885.169 | 885.178 |
| 15 | 865.573 | 864.607 | 863.494 | 861.626 | 860.494 | 859.942 | 859.197 | 859.731 | 860.540 |
| 20 | 835.351 | 834.044 | 832.756 | 830.907 | 830.033 | 828.975 | 827.825 | 828.810 | 829.500 |
| 25 | 799.020 | 797.465 | 795.929 | 794.383 | 793.656 | 792.396 | 790.915 | 792.240 | 792.672 |
| 30 | 757.298 | 755.844 | 754.317 | 752.992 | 752.164 | 750.886 | 749.460 | 750.527 | 750.665 |
| 35 | 710.672 | 709.384 | 707.977 | 706.937 | 706.146 | 704.499 | 703.680 | 703.938 | 704.656 |
| 40 | 659.474 | 658.591 | 657.285 | 656.604 | 655.822 | 654.451 | 654.230 | 654.230 | 655.242 |
| 45 | 604.661 | 603.842 | 602.940 | 602.508 | 601.606 | 600.778 | 600.880 | 600.806 | 601.947 |
| 50 | 546.563 | 545.827 | 545.266 | 544.732 | 543.453 | 543.067 | 543.315 | 543.527 | 544.189 |
| 55 | 485.346 | 484.444 | 483.902 | 482.733 | 481.694 | 481.022 | 480.912 | 481.721 | 481.353 |
| 60 | 427.920 | 426.733 | 425.445 | 423.522 | 422.096 | 421.553 | 420.265 | 421.084 | 420.412 |
| 65 | 357.944 | 355.322 | 351.826 | 349.002 | 346.067 | 344.062 | 341.854 | 341.486 | 340.529 |
| 70 | 276.598 | 270.121 | 264.380 | 258.106 | 253.580 | 248.906 | 246.017 | 244.334 | 243.358 |
| 75 | 175.416 | 167.228 | 158.820 | 151.800 | 145.940 | 141.928 | 139.601 | 137.899 | 137.328 |
| 80 | 80.951 | 77.133 | 74.833 | 71.180 | 68.227 | 67.335 | 66.645 | 66.314 | 66.240 |
| 85 | 30.894 | 30.332 | 29.918 | 29.596 | 29.339 | 29.182 | 29.109 | 29.090 | 29.081 |
| 90 | 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 | 330.66 | N.A. | 12.50 |
| 0-30 | 700.74 | N.A. | 26.40 |
| 0-40 | 1148.87 | N.A. | 43.30 |
| 0-60 | 2058.04 | N.A. | 77.60 |
| 0-80 | 2604.48 | N.A. | 98.20 |
| 0-90 | 2652.04 | N.A. | 100.00 |
| 10-90 | 2566.11 | N.A. | 96.80 |
| 20-40 | 818.21 | N.A. | 30.90 |
| 20-50 | 1289.16 | N.A. | 48.60 |
| 40-70 | 1260.5 | N.A. | 47.50 |
| 60-80 | 546.44 | N.A. | 20.60 |
| 70-80 | 195.11 | N.A. | 7.40 |
| 80-90 | 47.56 | N.A. | 1.80 |
| 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 | 2652.04 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 85.93 |
| 10-20 | 244.73 |
| 20-30 | 370.07 |
| 30-40 | 448.14 |
| 40-50 | 470.95 |
| 50-60 | 438.22 |
| 60-70 | 351.33 |
| 70-80 | 195.11 |
| 80-90 | 47.56 |
| 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 |

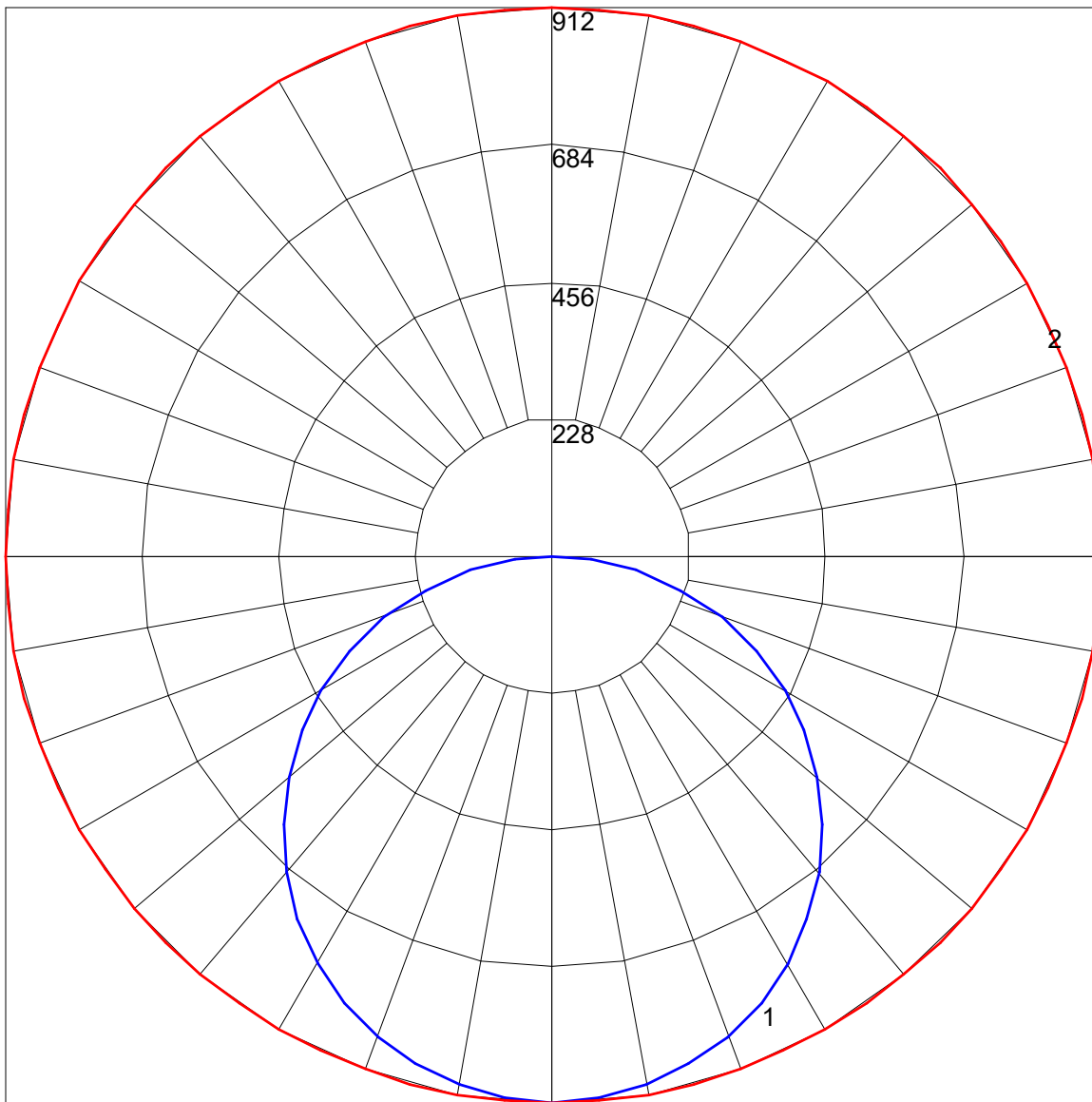
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 74 | 81 | 77 | 73 | 78 | 74 | 71 | 69 |
| 3 | 90 | 79 | 70 | 64 | 87 | 77 | 69 | 63 | 74 | 68 | 62 | 71 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 53 | 66 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 52 | 46 | 59 | 51 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 42 |
| 6 | 69 | 56 | 47 | 40 | 67 | 55 | 46 | 40 | 53 | 45 | 40 | 51 | 45 | 39 | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 35 | 63 | 50 | 41 | 35 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 37 | 32 | 58 | 45 | 37 | 31 | 44 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 28 | 54 | 42 | 34 | 28 | 41 | 33 | 28 | 39 | 33 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 36 | 30 | 25 | 23 |

POLAR GRAPH



Maximum Candela = 912.364 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)