



IES INDOOR REPORT
PHOTOMETRIC FILENAME : TT_48M-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] 3,081P2
[TESTLAB] TUV SUD America
[ISSUEDATE] 3/28/20184:33:14 PM
[MANUFAC] LAMAR LIGHTING CO., INC.
[LUMCAT] TT(H,U)48M-40
[LUMINAIRE] 4' FIXTURE, WITH ROUND FROSTED LENS, 4000K
[MORE] MEDIUM OUTPUT
[MORE] 1847-6
[_AMBIENT] 25.6 deg C
[_POWERFACTOR] 0.9972
[_ATHD] 5.21%
[_CURRENT] 0.26
[_VOLTAGE] 120.13
[_STABILIZATION] 40:40.0 Stable
[_POWER VARIATION] 0.13 %
[_LIGHT VARIATION] 0.48 %
[_Lumens] 3,462

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3462 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 111 |
| Total Luminaire Watts | 31.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.20 |
| Spacing Criterion (90-270) | 1.10 |
| Spacing Criterion (Diagonal) | 1.30 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.42 ft |
| Luminous Width (90-270) | 3.83 ft |
| Luminous Height | 0.33 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3899 | 3811 | 4825 |
| 55 | 3314 | 3118 | 3774 |
| 65 | 2840 | 2555 | 2765 |
| 75 | 2486 | 2140 | 1714 |
| 85 | 2124 | 1823 | 401 |

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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 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 |
| 2.5 | 1159.140 | 1150.440 | 1140.749 | 1154.637 | 1153.108 | 1162.371 | 1159.776 | 1162.897 | 1163.582 | 1157.757 |
| 5.0 | 1153.426 | 1143.380 | 1132.685 | 1146.916 | 1146.781 | 1156.473 | 1155.885 | 1160.547 | 1161.379 | 1156.668 |
| 7.5 | 1145.252 | 1133.285 | 1122.260 | 1135.022 | 1134.569 | 1147.234 | 1148.274 | 1155.298 | 1157.268 | 1152.447 |
| 10.0 | 1134.900 | 1120.975 | 1108.910 | 1120.742 | 1121.489 | 1135.499 | 1137.653 | 1148.274 | 1150.746 | 1147.222 |
| 12.5 | 1121.489 | 1106.303 | 1064.957 | 1101.862 | 1103.807 | 1119.298 | 1124.487 | 1138.106 | 1141.532 | 1138.118 |
| 15.0 | 1105.422 | 1089.858 | 1020.428 | 1027.685 | 1051.093 | 1100.650 | 1107.649 | 1124.682 | 1130.287 | 1126.677 |
| 17.5 | 1088.096 | 1019.804 | 1000.446 | 1005.219 | 1007.079 | 1025.519 | 1085.954 | 1108.836 | 1115.811 | 1112.911 |
| 20.0 | 1018.777 | 999.798 | 977.307 | 979.535 | 980.587 | 999.700 | 1015.962 | 1064.700 | 1098.692 | 1095.548 |
| 22.5 | 998.232 | 976.830 | 952.113 | 949.506 | 949.298 | 970.773 | 991.514 | 1017.688 | 1030.903 | 1030.254 |
| 25.0 | 974.677 | 951.733 | 923.798 | 916.517 | 915.196 | 938.249 | 964.435 | 994.952 | 1006.552 | 1002.392 |
| 27.5 | 951.060 | 924.471 | 894.014 | 881.374 | 877.569 | 902.580 | 934.835 | 970.431 | 983.707 | 979.143 |
| 30.0 | 924.128 | 896.474 | 861.270 | 843.282 | 836.699 | 864.353 | 902.984 | 943.670 | 957.179 | 953.483 |
| 32.5 | 895.226 | 867.926 | 829.455 | 803.220 | 792.966 | 823.251 | 868.991 | 916.199 | 931.042 | 925.792 |
| 35.0 | 866.079 | 836.246 | 794.117 | 760.222 | 747.386 | 780.595 | 834.497 | 885.816 | 901.785 | 895.520 |
| 37.5 | 834.582 | 803.710 | 758.876 | 716.440 | 699.811 | 734.244 | 795.646 | 851.750 | 870.618 | 863.962 |
| 40.0 | 800.272 | 769.999 | 720.955 | 670.566 | 649.238 | 686.816 | 755.878 | 815.469 | 837.531 | 830.459 |
| 42.5 | 765.508 | 737.120 | 684.161 | 624.875 | 600.146 | 639.816 | 716.379 | 780.583 | 803.808 | 796.197 |
| 45.0 | 732.494 | 704.069 | 647.476 | 577.924 | 549.095 | 591.666 | 676.341 | 746.126 | 770.207 | 761.286 |
| 47.5 | 698.832 | 669.183 | 609.188 | 531.438 | 499.770 | 544.641 | 635.276 | 709.441 | 735.064 | 725.581 |
| 50.0 | 663.640 | 634.787 | 571.035 | 485.760 | 450.984 | 497.409 | 595.080 | 672.218 | 701.010 | 691.160 |
| 52.5 | 629.892 | 602.409 | 534.106 | 442.920 | 404.461 | 450.935 | 555.470 | 637.197 | 666.650 | 655.968 |
| 55.0 | 600.757 | 573.017 | 500.346 | 401.317 | 360.227 | 407.569 | 518.651 | 605.493 | 632.193 | 620.519 |
| 57.5 | 569.102 | 541.998 | 466.280 | 359.480 | 317.436 | 367.189 | 483.570 | 571.782 | 600.182 | 587.016 |
| 60.0 | 538.413 | 511.615 | 433.547 | 321.609 | 276.897 | 327.911 | 448.243 | 538.731 | 568.857 | 555.605 |
| 62.5 | 508.703 | 483.729 | 402.014 | 286.307 | 240.286 | 290.271 | 415.474 | 507.541 | 538.951 | 524.990 |
| 65.0 | 480.364 | 457.041 | 373.271 | 253.868 | 205.155 | 255.814 | 383.990 | 478.332 | 511.395 | 497.078 |
| 67.5 | 454.520 | 432.238 | 346.167 | 223.657 | 171.273 | 224.476 | 354.794 | 450.849 | 483.680 | 469.412 |
| 70.0 | 429.252 | 406.774 | 320.985 | 194.779 | 141.905 | 195.464 | 327.739 | 424.578 | 456.111 | 441.317 |
| 72.5 | 403.250 | 382.485 | 296.169 | 168.972 | 113.382 | 168.507 | 300.831 | 399.212 | 428.016 | 414.030 |
| 75.0 | 377.554 | 358.245 | 272.529 | 145.270 | 86.842 | 144.181 | 276.970 | 373.821 | 402.002 | 387.710 |
| 77.5 | 351.882 | 334.543 | 250.540 | 123.869 | 63.360 | 122.144 | 253.599 | 349.850 | 375.718 | 363.261 |
| 80.0 | 327.176 | 310.498 | 228.771 | 104.523 | 41.836 | 102.516 | 231.769 | 325.059 | 352.041 | 340.343 |
| 82.5 | 301.162 | 286.209 | 209.169 | 87.955 | 24.057 | 85.557 | 211.420 | 301.517 | 329.330 | 319.516 |
| 85.0 | 276.065 | 263.266 | 190.912 | 73.076 | 10.266 | 70.714 | 193.335 | 278.243 | 303.107 | 294.395 |
| 87.5 | 251.384 | 241.252 | 173.867 | 60.986 | 1.065 | 58.282 | 175.568 | 256.205 | 276.505 | 268.356 |
| 90.0 | 227.327 | 217.232 | 155.573 | 50.132 | 0.000 | 47.392 | 157.433 | 232.858 | 251.176 | 244.593 |
| 92.5 | 204.213 | 195.085 | 139.287 | 41.126 | 0.000 | 38.716 | 141.624 | 210.747 | 228.135 | 222.127 |
| 95.0 | 182.432 | 174.430 | 124.016 | 34.237 | 0.000 | 31.301 | 127.026 | 190.410 | 206.428 | 202.047 |
| 97.5 | 162.193 | 154.864 | 110.115 | 27.715 | 0.000 | 25.721 | 112.599 | 170.808 | 185.883 | 182.359 |
| 100.0 | 143.533 | 137.182 | 97.255 | 22.393 | 0.000 | 20.471 | 100.191 | 153.273 | 165.338 | 163.539 |
| 102.5 | 126.169 | 120.749 | 85.275 | 17.987 | 0.000 | 16.274 | 88.359 | 136.154 | 144.145 | 143.129 |
| 105.0 | 109.944 | 105.270 | 73.859 | 14.084 | 0.000 | 12.995 | 76.771 | 119.133 | 125.961 | 124.738 |
| 107.5 | 96.031 | 91.320 | 63.323 | 11.196 | 0.000 | 10.022 | 66.187 | 104.389 | 110.727 | 109.418 |
| 110.0 | 83.452 | 79.390 | 53.546 | 8.578 | 0.000 | 7.721 | 56.911 | 90.769 | 97.206 | 96.007 |
| 112.5 | 72.513 | 68.316 | 45.336 | 6.436 | 0.000 | 5.568 | 48.236 | 77.958 | 85.239 | 83.734 |
| 115.0 | 62.993 | 58.808 | 37.798 | 4.735 | 0.000 | 4.075 | 40.392 | 67.202 | 74.042 | 72.329 |
| 117.5 | 54.697 | 50.194 | 31.399 | 3.022 | 0.000 | 2.447 | 34.078 | 57.854 | 63.287 | 61.341 |
| 120.0 | 46.719 | 42.326 | 25.390 | 1.444 | 0.000 | 1.285 | 27.985 | 48.909 | 53.008 | 50.548 |
| 122.5 | 39.780 | 35.547 | 20.667 | 0.587 | 0.000 | 0.367 | 22.858 | 41.371 | 44.908 | 41.873 |
| 125.0 | 33.613 | 29.624 | 16.091 | 0.000 | 0.000 | 0.000 | 18.489 | 34.604 | 39.193 | 36.391 |
| 127.5 | 28.254 | 24.620 | 12.457 | 0.000 | 0.000 | 0.000 | 14.476 | 29.135 | 33.662 | 30.836 |
| 130.0 | 23.824 | 20.545 | 9.434 | 0.000 | 0.000 | 0.000 | 11.429 | 24.253 | 28.205 | 25.831 |
| 132.5 | 19.896 | 16.654 | 6.595 | 0.000 | 0.000 | 0.000 | 8.627 | 19.750 | 23.310 | 21.096 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|
| 135.0 | 16.323 | 13.570 | 4.601 | 0.000 | 0.000 | 0.000 | 6.216 | 16.556 | 18.881 | 16.385 |
| 137.5 | 12.836 | 10.560 | 2.802 | 0.037 | 0.037 | 0.000 | 4.160 | 13.436 | 15.295 | 12.799 |
| 140.0 | 10.144 | 7.770 | 1.481 | 0.196 | 0.012 | 0.073 | 2.349 | 9.728 | 12.138 | 9.789 |
| 142.5 | 7.489 | 5.225 | 0.575 | 0.184 | 0.122 | 0.281 | 1.126 | 7.268 | 9.924 | 7.966 |
| 145.0 | 5.592 | 3.769 | 0.673 | 0.624 | 0.208 | 0.220 | 0.281 | 5.152 | 7.317 | 5.323 |
| 147.5 | 3.695 | 2.227 | 0.771 | 0.697 | 0.734 | 0.489 | 0.306 | 3.133 | 4.943 | 3.463 |
| 150.0 | 1.835 | 1.260 | 0.893 | 0.746 | 1.052 | 0.441 | 0.918 | 1.750 | 2.643 | 1.334 |
| 152.5 | 0.930 | 1.114 | 0.869 | 0.954 | 0.661 | 0.746 | 0.649 | 0.722 | 1.248 | 0.820 |
| 155.0 | 1.114 | 1.162 | 0.881 | 0.967 | 0.722 | 0.832 | 0.722 | 1.003 | 0.857 | 0.722 |
| 157.5 | 0.942 | 1.089 | 1.114 | 0.808 | 1.003 | 1.052 | 0.893 | 1.065 | 0.551 | 0.795 |
| 160.0 | 1.273 | 1.456 | 1.236 | 1.542 | 1.150 | 1.138 | 1.334 | 1.114 | 1.003 | 0.795 |
| 162.5 | 1.481 | 1.297 | 1.517 | 1.211 | 1.236 | 1.591 | 1.138 | 1.407 | 0.942 | 1.101 |
| 165.0 | 1.481 | 1.676 | 1.444 | 1.077 | 1.297 | 1.175 | 1.640 | 0.954 | 1.407 | 1.077 |
| 167.5 | 1.395 | 1.627 | 1.456 | 1.566 | 1.530 | 0.967 | 1.456 | 1.273 | 1.285 | 1.383 |
| 170.0 | 1.370 | 1.578 | 1.578 | 1.432 | 1.493 | 1.603 | 1.481 | 1.554 | 1.566 | 1.224 |
| 172.5 | 2.007 | 1.640 | 1.701 | 1.652 | 1.676 | 1.591 | 1.309 | 1.676 | 1.505 | 1.505 |
| 175.0 | 1.383 | 1.640 | 1.297 | 1.725 | 1.468 | 1.811 | 1.530 | 1.493 | 1.725 | 1.517 |
| 177.5 | 1.676 | 1.970 | 1.774 | 1.676 | 1.774 | 1.615 | 1.481 | 2.043 | 1.615 | 1.493 |
| 180.0 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 |

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 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 | 1158.736 |
| 2.5 | 1146.867 | 1158.785 | 1157.403 | 1163.325 | 1157.965 | 1159.727 | 1159.140 |
| 5.0 | 1145.545 | 1155.518 | 1153.915 | 1159.678 | 1152.447 | 1153.927 | 1153.426 |
| 7.5 | 1141.275 | 1150.073 | 1146.708 | 1151.333 | 1144.591 | 1145.435 | 1145.252 |
| 10.0 | 1135.830 | 1141.850 | 1136.442 | 1140.333 | 1133.945 | 1135.548 | 1134.900 |
| 12.5 | 1126.322 | 1130.250 | 1123.385 | 1125.820 | 1120.204 | 1122.211 | 1121.489 |
| 15.0 | 1114.942 | 1115.248 | 1105.104 | 1107.870 | 1103.624 | 1107.050 | 1105.422 |
| 17.5 | 1098.839 | 1096.967 | 1050.395 | 1067.343 | 1031.245 | 1061.053 | 1088.096 |
| 20.0 | 1034.855 | 1021.395 | 1007.972 | 1009.648 | 1009.636 | 1017.932 | 1018.777 |
| 22.5 | 1005.439 | 996.592 | 979.963 | 982.129 | 985.347 | 995.968 | 998.232 |
| 25.0 | 981.174 | 967.873 | 948.907 | 952.639 | 958.965 | 972.009 | 974.677 |
| 27.5 | 954.915 | 935.643 | 914.877 | 919.234 | 930.234 | 946.717 | 951.060 |
| 30.0 | 925.107 | 900.108 | 877.079 | 883.283 | 899.227 | 918.132 | 924.128 |
| 32.5 | 893.929 | 863.215 | 836.185 | 843.527 | 866.079 | 890.552 | 895.226 |
| 35.0 | 861.453 | 821.893 | 791.547 | 801.226 | 830.716 | 860.254 | 866.079 |
| 37.5 | 824.500 | 779.225 | 746.407 | 758.386 | 793.664 | 827.314 | 834.582 |
| 40.0 | 785.392 | 733.020 | 697.890 | 712.818 | 755.401 | 793.615 | 800.272 |
| 42.5 | 747.349 | 686.767 | 648.797 | 667.323 | 718.569 | 759.463 | 765.508 |
| 45.0 | 708.817 | 639.106 | 599.668 | 619.809 | 678.238 | 723.549 | 732.494 |
| 47.5 | 669.611 | 592.694 | 549.719 | 572.614 | 639.008 | 688.137 | 698.832 |
| 50.0 | 631.042 | 546.452 | 500.309 | 526.140 | 600.476 | 655.625 | 663.640 |
| 52.5 | 592.278 | 499.208 | 450.947 | 480.608 | 562.384 | 621.522 | 629.892 |
| 55.0 | 553.292 | 454.961 | 404.058 | 436.667 | 525.345 | 588.753 | 600.757 |
| 57.5 | 513.683 | 411.828 | 359.664 | 394.146 | 489.370 | 556.327 | 569.102 |
| 60.0 | 481.012 | 370.872 | 318.207 | 355.100 | 454.692 | 527.376 | 538.413 |
| 62.5 | 446.787 | 333.087 | 280.115 | 318.733 | 421.837 | 498.681 | 508.703 |
| 65.0 | 415.254 | 298.152 | 244.140 | 283.639 | 391.870 | 471.969 | 480.364 |
| 67.5 | 385.226 | 266.043 | 211.273 | 251.764 | 361.805 | 445.196 | 454.520 |
| 70.0 | 356.409 | 234.547 | 180.609 | 221.173 | 333.576 | 418.117 | 429.252 |
| 72.5 | 327.886 | 205.424 | 151.266 | 193.788 | 307.047 | 391.393 | 403.250 |
| 75.0 | 301.749 | 179.251 | 124.517 | 168.483 | 282.208 | 365.953 | 377.554 |
| 77.5 | 277.117 | 155.781 | 100.143 | 146.506 | 258.885 | 342.386 | 351.882 |
| 80.0 | 255.471 | 134.686 | 77.579 | 125.790 | 237.276 | 319.272 | 327.176 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|--------------|---------|---------|--------|---------|---------|---------|---------|
| 82.5 | 234.853 | 116.050 | 57.646 | 107.338 | 216.670 | 294.897 | 301.162 |
| 85.0 | 214.956 | 98.686 | 40.025 | 91.124 | 196.015 | 269.788 | 276.065 |
| 87.5 | 194.387 | 82.938 | 25.219 | 75.694 | 176.693 | 245.009 | 251.384 |
| 90.0 | 175.311 | 69.013 | 15.540 | 63.262 | 158.461 | 222.188 | 227.327 |
| 92.5 | 158.119 | 57.854 | 12.273 | 53.008 | 142.591 | 200.579 | 204.213 |
| 95.0 | 143.312 | 48.016 | 10.584 | 43.684 | 127.356 | 180.927 | 182.432 |
| 97.5 | 128.874 | 40.245 | 8.871 | 35.094 | 113.272 | 160.737 | 162.193 |
| 100.0 | 115.193 | 32.867 | 7.452 | 28.082 | 99.837 | 142.407 | 143.533 |
| 102.5 | 100.461 | 26.541 | 5.506 | 21.536 | 86.401 | 124.224 | 126.169 |
| 105.0 | 87.551 | 20.961 | 3.585 | 16.690 | 74.654 | 107.497 | 109.944 |
| 107.5 | 75.755 | 16.470 | 2.251 | 12.689 | 64.473 | 94.391 | 96.031 |
| 110.0 | 65.881 | 12.408 | 1.052 | 9.263 | 54.623 | 82.388 | 83.452 |
| 112.5 | 56.618 | 9.471 | 0.184 | 6.400 | 46.498 | 70.763 | 72.513 |
| 115.0 | 47.918 | 7.415 | 0.000 | 4.625 | 38.483 | 60.705 | 62.993 |
| 117.5 | 39.891 | 5.396 | 0.000 | 2.704 | 31.117 | 51.124 | 54.697 |
| 120.0 | 31.827 | 3.573 | 0.000 | 0.918 | 25.023 | 42.436 | 46.719 |
| 122.5 | 25.464 | 1.884 | 0.000 | 0.049 | 20.276 | 36.183 | 39.780 |
| 125.0 | 21.340 | 0.759 | 0.000 | 0.000 | 16.323 | 31.031 | 33.613 |
| 127.5 | 17.388 | 0.000 | 0.000 | 0.000 | 12.506 | 26.039 | 28.254 |
| 130.0 | 13.754 | 0.000 | 0.000 | 0.000 | 9.165 | 21.059 | 23.824 |
| 132.5 | 10.438 | 0.000 | 0.000 | 0.000 | 5.616 | 16.678 | 19.896 |
| 135.0 | 7.366 | 0.000 | 0.000 | 0.000 | 3.646 | 12.750 | 16.323 |
| 137.5 | 4.907 | 0.000 | 0.000 | 0.000 | 2.056 | 10.230 | 12.836 |
| 140.0 | 3.157 | 0.000 | 0.000 | 0.000 | 0.857 | 7.807 | 10.144 |
| 142.5 | 1.530 | 0.098 | 0.000 | 0.318 | 0.269 | 5.690 | 7.489 |
| 145.0 | 0.918 | 0.135 | 0.012 | 0.208 | 0.563 | 3.512 | 5.592 |
| 147.5 | 0.441 | 0.477 | 0.416 | 0.110 | 0.441 | 1.236 | 3.695 |
| 150.0 | 0.220 | 0.502 | 0.355 | 0.575 | 0.392 | 0.746 | 1.835 |
| 152.5 | 0.489 | 0.673 | 0.600 | 0.600 | 0.649 | 0.587 | 0.930 |
| 155.0 | 0.697 | 0.722 | 0.600 | 0.857 | 0.502 | 0.844 | 1.114 |
| 157.5 | 0.795 | 0.942 | 0.869 | 1.003 | 0.881 | 0.893 | 0.942 |
| 160.0 | 1.016 | 1.101 | 0.857 | 1.077 | 1.370 | 1.309 | 1.273 |
| 162.5 | 1.334 | 0.979 | 1.138 | 1.077 | 1.297 | 1.114 | 1.481 |
| 165.0 | 1.224 | 1.297 | 1.114 | 1.297 | 1.199 | 1.003 | 1.481 |
| 167.5 | 1.370 | 1.150 | 1.383 | 1.273 | 1.432 | 1.542 | 1.395 |
| 170.0 | 1.542 | 1.774 | 1.481 | 1.554 | 1.395 | 1.591 | 1.370 |
| 172.5 | 1.285 | 1.419 | 1.493 | 1.640 | 1.689 | 1.591 | 2.007 |
| 175.0 | 1.566 | 1.566 | 1.774 | 1.787 | 1.762 | 1.676 | 1.383 |
| 177.5 | 1.921 | 1.627 | 1.750 | 1.615 | 1.530 | 1.946 | 1.676 |
| 180.0 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 | 1.738 |

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 416.30 | N.A. | 12.00 |
| 0-30 | 859.07 | N.A. | 24.80 |
| 0-40 | 1377.25 | N.A. | 39.80 |
| 0-60 | 2352.86 | N.A. | 68.00 |
| 0-80 | 3007.42 | N.A. | 86.90 |
| 0-90 | 3203.57 | N.A. | 92.50 |
| 10-90 | 3094.17 | N.A. | 89.40 |
| 20-40 | 960.95 | N.A. | 27.80 |
| 20-50 | 1478.26 | N.A. | 42.70 |
| 40-70 | 1348.43 | N.A. | 38.90 |
| 60-80 | 654.56 | N.A. | 18.90 |
| 70-80 | 281.74 | N.A. | 8.10 |
| 80-90 | 196.15 | N.A. | 5.70 |
| 90-110 | 197.57 | N.A. | 5.70 |
| 90-120 | 234.23 | N.A. | 6.80 |
| 90-130 | 250.23 | N.A. | 7.20 |
| 90-150 | 257.60 | N.A. | 7.40 |
| 90-180 | 258.53 | N.A. | 7.50 |
| 110-180 | 60.96 | N.A. | 1.80 |
| 0-180 | 3462.11 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 109.41 |
| 10-20 | 306.89 |
| 20-30 | 442.76 |
| 30-40 | 518.19 |
| 40-50 | 517.31 |
| 50-60 | 458.30 |
| 60-70 | 372.82 |
| 70-80 | 281.74 |
| 80-90 | 196.15 |
| 90-100 | 125.36 |
| 100-110 | 72.21 |
| 110-120 | 36.66 |
| 120-130 | 16.00 |
| 130-140 | 5.90 |
| 140-150 | 1.48 |
| 150-160 | 0.41 |
| 160-170 | 0.37 |
| 170-180 | 0.15 |

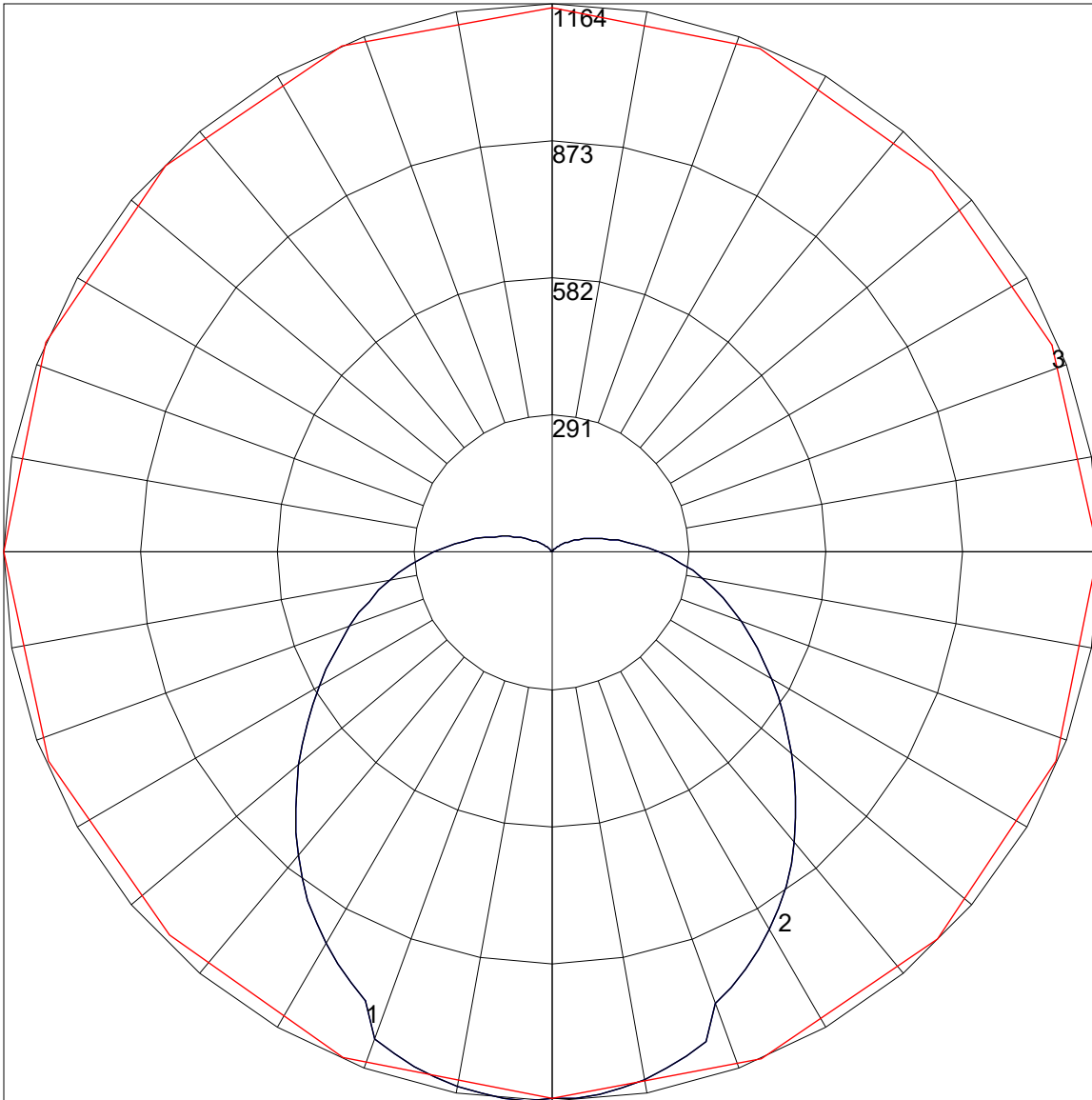
IES INDOOR REPORT
PHOTOMETRIC FILENAME : TT_48M-40.IES

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 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 95 | 95 | 95 | 93 |
| 1 | 105 | 100 | 95 | 91 | 102 | 97 | 92 | 88 | 91 | 88 | 84 | 86 | 83 | 80 | 81 | 79 | 77 | 74 |
| 2 | 95 | 87 | 79 | 73 | 92 | 84 | 77 | 72 | 79 | 74 | 69 | 75 | 70 | 66 | 71 | 67 | 64 | 61 |
| 3 | 87 | 76 | 67 | 61 | 84 | 74 | 66 | 60 | 70 | 63 | 58 | 66 | 60 | 56 | 62 | 58 | 54 | 51 |
| 4 | 80 | 67 | 58 | 51 | 77 | 65 | 57 | 51 | 62 | 55 | 49 | 59 | 53 | 48 | 56 | 50 | 46 | 44 |
| 5 | 73 | 60 | 51 | 44 | 71 | 59 | 50 | 44 | 56 | 48 | 42 | 53 | 46 | 41 | 50 | 45 | 40 | 38 |
| 6 | 68 | 54 | 45 | 39 | 65 | 53 | 44 | 38 | 50 | 43 | 37 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 7 | 63 | 49 | 40 | 34 | 61 | 48 | 40 | 34 | 46 | 38 | 33 | 44 | 37 | 32 | 42 | 36 | 32 | 29 |
| 8 | 59 | 45 | 36 | 31 | 57 | 44 | 36 | 30 | 42 | 35 | 30 | 40 | 34 | 29 | 38 | 33 | 28 | 26 |
| 9 | 55 | 41 | 33 | 27 | 53 | 40 | 33 | 27 | 39 | 32 | 27 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 38 | 30 | 25 | 50 | 37 | 30 | 25 | 36 | 29 | 24 | 34 | 28 | 24 | 33 | 27 | 23 | 22 |

POLAR GRAPH



Maximum Candela = 1163.582 Located At Horizontal Angle = 180, Vertical Angle = 2.5

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

2 - Vertical Plane Through Horizontal Angles (0 - 180)

3 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)