



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LDA48-LED40DMVXXRF40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LDA48-LED40DMVXXRF40
 [TESTDATE] 30-Jan-2018 13:26:02
 [TESTLAB] Radiant Vision Systems ProSource
 [ISSUEDATE] 2/1/2018 9:30:19 AM
 [MANUFAC] MOBERN LIGHTING CO.
 [LAMP] LED Module
 [_TOTALLUMINAIRELUMENS] 4172.5
 [MORE] (1) PHILIPS ADVANCED 54W
 [BOARD/LAMP TYPE] (4) PHILIPS BOARDS
 [_NUMBEROFRAYS]10000000
 [OTHER] Absolute Photometry measurement

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4174 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 105 |
| Total Luminaire Watts | 39.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.36 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 1.22 m |
| Luminous Width (90-270) | 0.10 m |
| Luminous Height | 0.10 m |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 8227 | 5727 | 5507 |
| 55 | 7392 | 4991 | 4922 |
| 65 | 6489 | 4316 | 4476 |
| 75 | 5498 | 3747 | 4042 |
| 85 | 3208 | 3249 | 3715 |

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CANDELA TABULATION

| | <u>0</u> | <u>10</u> | <u>20</u> | <u>30</u> | <u>40</u> | <u>50</u> | <u>60</u> | <u>70</u> | <u>80</u> | <u>90</u> |
|------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 |
| 3 | 1204.17 | 1204.67 | 1204.99 | 1204.78 | 1204.79 | 1204.56 | 1204.24 | 1203.91 | 1203.57 | 1203.16 |
| 6 | 1203.74 | 1203.36 | 1203.54 | 1203.16 | 1202.57 | 1202.13 | 1202.14 | 1202.19 | 1202.35 | 1202.46 |
| 9 | 1192.03 | 1190.54 | 1191.64 | 1191.51 | 1192.64 | 1193.10 | 1193.68 | 1194.97 | 1196.47 | 1197.18 |
| 12 | 1173.90 | 1172.91 | 1175.07 | 1179.55 | 1184.37 | 1185.25 | 1184.53 | 1185.60 | 1187.93 | 1188.50 |
| 15 | 1154.90 | 1155.10 | 1159.94 | 1166.89 | 1175.03 | 1177.87 | 1175.92 | 1177.22 | 1179.13 | 1177.66 |
| 18 | 1132.16 | 1136.51 | 1138.39 | 1145.57 | 1154.21 | 1160.17 | 1160.30 | 1166.09 | 1169.02 | 1164.94 |
| 21 | 1102.44 | 1108.66 | 1112.55 | 1116.84 | 1127.73 | 1133.79 | 1138.16 | 1149.10 | 1152.58 | 1150.13 |
| 24 | 1069.69 | 1075.43 | 1082.66 | 1086.10 | 1101.84 | 1111.61 | 1118.37 | 1129.64 | 1132.29 | 1131.89 |
| 27 | 1037.59 | 1039.40 | 1045.42 | 1058.64 | 1076.84 | 1087.96 | 1099.72 | 1110.85 | 1114.35 | 1109.55 |
| 30 | 1001.44 | 997.70 | 1005.50 | 1024.64 | 1042.51 | 1054.44 | 1073.11 | 1088.90 | 1097.71 | 1085.77 |
| 33 | 956.57 | 953.52 | 964.92 | 988.32 | 1009.83 | 1023.73 | 1044.57 | 1059.15 | 1075.51 | 1062.83 |
| 36 | 906.50 | 911.41 | 924.35 | 950.64 | 975.91 | 991.49 | 1018.88 | 1031.41 | 1044.82 | 1038.13 |
| 39 | 856.58 | 871.65 | 883.90 | 900.65 | 933.26 | 952.85 | 988.01 | 1008.12 | 1011.03 | 1009.19 |
| 42 | 810.42 | 825.37 | 836.62 | 855.95 | 893.72 | 915.01 | 950.64 | 979.96 | 977.85 | 979.04 |
| 45 | 768.22 | 769.42 | 790.17 | 812.52 | 858.00 | 886.74 | 910.62 | 944.61 | 947.89 | 950.57 |
| 48 | 718.52 | 714.45 | 746.75 | 768.83 | 821.70 | 856.40 | 876.32 | 908.83 | 917.09 | 920.73 |
| 51 | 653.70 | 669.59 | 695.29 | 724.53 | 777.32 | 812.28 | 843.34 | 873.33 | 885.72 | 886.30 |
| 54 | 592.23 | 620.90 | 652.20 | 672.64 | 726.35 | 764.44 | 801.54 | 836.63 | 851.68 | 849.03 |
| 57 | 549.80 | 566.28 | 602.59 | 628.24 | 683.41 | 721.75 | 762.32 | 797.40 | 816.27 | 811.99 |
| 60 | 505.35 | 512.19 | 544.54 | 581.92 | 637.22 | 687.28 | 728.96 | 761.32 | 775.80 | 777.92 |
| 63 | 438.84 | 457.26 | 492.85 | 537.58 | 586.26 | 646.51 | 697.25 | 726.45 | 736.52 | 747.73 |
| 66 | 370.87 | 396.04 | 438.60 | 495.33 | 545.38 | 601.87 | 658.00 | 685.29 | 701.41 | 715.16 |
| 69 | 323.22 | 344.50 | 393.70 | 442.84 | 504.73 | 560.26 | 612.97 | 642.00 | 668.14 | 675.38 |
| 72 | 281.08 | 302.67 | 348.75 | 399.08 | 466.31 | 524.37 | 569.95 | 606.00 | 635.50 | 636.02 |
| 75 | 226.80 | 254.97 | 301.80 | 361.28 | 421.52 | 491.09 | 530.86 | 574.67 | 600.13 | 604.18 |
| 78 | 167.93 | 202.66 | 259.41 | 326.23 | 384.55 | 449.33 | 498.86 | 538.44 | 563.27 | 572.46 |
| 81 | 123.61 | 160.68 | 228.95 | 296.74 | 356.98 | 412.15 | 474.91 | 507.07 | 532.10 | 538.39 |
| 84 | 78.83 | 126.15 | 193.23 | 266.26 | 319.19 | 371.62 | 442.19 | 471.09 | 500.36 | 501.34 |
| 87 | 40.60 | 92.60 | 162.84 | 227.90 | 291.51 | 347.91 | 404.92 | 440.58 | 468.63 | 471.10 |
| 90 | 19.66 | 63.69 | 135.84 | 193.95 | 274.79 | 325.25 | 359.38 | 422.07 | 429.55 | 457.54 |
| 93 | 0.94 | 18.26 | 52.18 | 81.54 | 96.80 | 130.13 | 148.55 | 187.63 | 165.42 | 182.36 |
| 96 | 0.08 | 1.37 | 3.85 | 3.99 | 6.88 | 7.45 | 11.77 | 19.22 | 15.72 | 12.52 |
| 99 | 0.04 | 0.27 | 1.36 | 1.49 | 1.26 | 1.45 | 1.93 | 1.79 | 2.52 | 0.79 |
| 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 162 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Horizontal Angles
Angles

| | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 |
| 3 | 1202.75 | 1202.19 | 1201.48 | 1200.59 | 1199.50 | 1198.84 | 1197.37 | 1196.64 | 1195.92 | 1195.19 |
| 6 | 1202.19 | 1201.60 | 1200.36 | 1198.48 | 1196.74 | 1194.73 | 1192.19 | 1189.40 | 1188.62 | 1187.98 |
| 9 | 1196.54 | 1194.58 | 1191.61 | 1187.85 | 1183.86 | 1178.93 | 1176.79 | 1172.81 | 1172.24 | 1171.20 |
| 12 | 1185.54 | 1180.49 | 1175.17 | 1170.01 | 1164.84 | 1156.96 | 1152.46 | 1150.56 | 1150.30 | 1149.03 |
| 15 | 1171.45 | 1163.85 | 1156.31 | 1149.49 | 1139.81 | 1132.37 | 1128.19 | 1125.29 | 1126.84 | 1126.71 |
| 18 | 1157.68 | 1148.04 | 1139.49 | 1128.90 | 1114.26 | 1106.84 | 1100.12 | 1100.60 | 1099.47 | 1102.89 |
| 21 | 1143.67 | 1132.59 | 1120.04 | 1102.90 | 1086.29 | 1076.62 | 1070.07 | 1069.05 | 1065.11 | 1063.10 |
| 24 | 1126.79 | 1111.49 | 1090.37 | 1069.63 | 1049.24 | 1034.11 | 1031.67 | 1031.27 | 1024.79 | 1015.54 |
| 27 | 1102.87 | 1083.37 | 1060.05 | 1037.44 | 1018.05 | 995.54 | 982.70 | 986.72 | 980.67 | 974.28 |
| 30 | 1076.04 | 1058.38 | 1036.76 | 1011.93 | 991.24 | 959.14 | 933.95 | 935.66 | 935.21 | 935.57 |
| 33 | 1048.66 | 1033.43 | 1015.61 | 987.18 | 963.97 | 926.80 | 891.77 | 883.33 | 890.42 | 889.63 |
| 36 | 1021.46 | 1006.47 | 985.02 | 949.22 | 926.30 | 895.07 | 857.53 | 832.31 | 846.20 | 833.39 |
| 39 | 997.20 | 977.07 | 944.50 | 904.34 | 874.07 | 845.44 | 822.93 | 783.85 | 801.24 | 775.40 |
| 42 | 969.60 | 944.49 | 908.23 | 866.40 | 828.13 | 789.16 | 771.87 | 733.77 | 751.63 | 721.76 |
| 45 | 935.41 | 911.81 | 870.40 | 833.34 | 789.60 | 733.42 | 711.92 | 683.77 | 694.86 | 675.03 |
| 48 | 899.51 | 876.86 | 831.04 | 793.73 | 754.00 | 690.01 | 660.24 | 636.29 | 636.20 | 630.08 |
| 51 | 868.15 | 840.44 | 798.90 | 752.09 | 706.56 | 653.06 | 601.29 | 591.73 | 581.06 | 586.98 |
| 54 | 834.92 | 808.26 | 765.54 | 715.59 | 649.95 | 602.85 | 553.75 | 541.89 | 527.58 | 537.92 |
| 57 | 799.49 | 773.38 | 726.65 | 674.28 | 608.49 | 542.76 | 505.19 | 488.82 | 472.68 | 481.83 |
| 60 | 760.12 | 736.57 | 686.81 | 628.60 | 571.08 | 494.73 | 460.09 | 433.15 | 416.04 | 422.06 |
| 63 | 723.78 | 702.70 | 649.42 | 585.94 | 523.14 | 454.42 | 421.56 | 379.38 | 358.34 | 368.36 |
| 66 | 692.80 | 664.31 | 608.05 | 547.89 | 480.80 | 422.48 | 369.84 | 325.50 | 301.50 | 317.29 |
| 69 | 663.00 | 621.41 | 569.90 | 506.12 | 445.02 | 380.63 | 321.38 | 271.61 | 247.21 | 266.19 |
| 72 | 629.15 | 584.77 | 537.31 | 465.25 | 415.24 | 342.22 | 278.28 | 218.53 | 195.09 | 215.17 |
| 75 | 586.50 | 552.69 | 498.36 | 435.38 | 374.61 | 305.15 | 235.95 | 170.15 | 144.74 | 168.70 |
| 78 | 544.81 | 516.32 | 458.03 | 404.26 | 338.43 | 271.43 | 197.92 | 128.30 | 97.86 | 125.98 |
| 81 | 515.55 | 483.05 | 423.69 | 367.59 | 301.40 | 235.15 | 164.14 | 87.67 | 54.02 | 88.13 |
| 84 | 482.35 | 452.63 | 398.18 | 335.42 | 267.43 | 209.03 | 131.91 | 63.31 | 24.51 | 63.59 |
| 87 | 452.47 | 427.25 | 368.08 | 310.84 | 245.16 | 173.40 | 106.66 | 42.02 | 5.97 | 43.53 |
| 90 | 421.72 | 388.76 | 341.02 | 283.34 | 216.71 | 153.77 | 90.69 | 25.83 | 1.21 | 29.47 |
| 93 | 166.94 | 196.44 | 167.04 | 139.57 | 105.42 | 84.67 | 46.65 | 11.04 | 0.34 | 13.52 |
| 96 | 23.37 | 20.38 | 16.93 | 16.14 | 12.59 | 9.02 | 7.34 | 1.97 | 0.20 | 1.75 |
| 99 | 5.40 | 1.47 | 0.84 | 0.28 | 0.45 | 0.06 | 0.06 | 0.38 | 0.03 | 0.32 |
| 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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PHOTOMETRIC FILENAME : LDA48-LED40DMVXXRF40.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Angles **Horizontal Angles**

| | <u>200</u> | <u>210</u> | <u>220</u> | <u>230</u> | <u>240</u> | <u>250</u> | <u>260</u> | <u>270</u> | <u>280</u> | <u>290</u> |
|-----|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 0 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 |
| 3 | 1194.47 | 1194.15 | 1193.55 | 1192.98 | 1192.62 | 1192.38 | 1192.33 | 1192.78 | 1193.44 | 1194.63 |
| 6 | 1189.06 | 1189.63 | 1189.69 | 1189.45 | 1188.91 | 1188.02 | 1187.43 | 1187.46 | 1188.57 | 1190.40 |
| 9 | 1173.78 | 1175.18 | 1179.43 | 1182.28 | 1183.82 | 1184.77 | 1185.75 | 1186.61 | 1187.15 | 1187.76 |
| 12 | 1149.82 | 1154.47 | 1163.38 | 1168.50 | 1171.50 | 1175.29 | 1180.95 | 1185.06 | 1184.86 | 1182.11 |
| 15 | 1129.16 | 1133.16 | 1142.30 | 1150.51 | 1152.02 | 1157.23 | 1167.86 | 1176.84 | 1176.99 | 1171.87 |
| 18 | 1102.28 | 1106.76 | 1114.65 | 1125.85 | 1127.96 | 1134.62 | 1149.74 | 1161.33 | 1163.83 | 1157.84 |
| 21 | 1064.26 | 1070.78 | 1083.11 | 1096.36 | 1104.63 | 1114.97 | 1128.60 | 1140.02 | 1143.47 | 1139.94 |
| 24 | 1018.96 | 1028.42 | 1048.83 | 1067.26 | 1082.65 | 1097.93 | 1108.64 | 1117.49 | 1120.08 | 1117.51 |
| 27 | 976.44 | 994.35 | 1016.81 | 1033.88 | 1056.35 | 1075.01 | 1088.87 | 1097.36 | 1098.34 | 1093.33 |
| 30 | 937.35 | 957.61 | 979.81 | 996.31 | 1023.84 | 1045.64 | 1067.15 | 1076.49 | 1077.73 | 1069.59 |
| 33 | 890.32 | 920.58 | 945.16 | 965.28 | 993.32 | 1014.28 | 1040.81 | 1051.42 | 1054.37 | 1040.42 |
| 36 | 840.24 | 884.54 | 904.85 | 928.45 | 960.08 | 987.98 | 1010.85 | 1023.86 | 1027.01 | 1008.72 |
| 39 | 802.43 | 836.28 | 855.61 | 887.78 | 919.91 | 958.18 | 979.83 | 996.03 | 998.14 | 978.39 |
| 42 | 763.78 | 784.29 | 815.17 | 854.86 | 887.96 | 923.73 | 944.03 | 966.59 | 966.19 | 947.38 |
| 45 | 713.48 | 729.53 | 777.64 | 823.02 | 855.62 | 892.91 | 907.34 | 934.07 | 932.60 | 918.91 |
| 48 | 657.65 | 684.56 | 738.89 | 779.27 | 814.89 | 860.37 | 873.38 | 900.11 | 897.50 | 891.34 |
| 51 | 597.50 | 647.52 | 693.12 | 733.39 | 777.82 | 822.75 | 843.16 | 866.17 | 862.06 | 858.22 |
| 54 | 550.43 | 594.83 | 641.75 | 696.37 | 746.77 | 787.37 | 810.35 | 830.29 | 823.76 | 819.25 |
| 57 | 499.03 | 538.23 | 600.42 | 657.07 | 713.33 | 751.19 | 778.30 | 790.82 | 789.90 | 775.61 |
| 60 | 451.28 | 483.08 | 556.07 | 612.23 | 670.87 | 713.22 | 745.27 | 751.30 | 756.77 | 733.97 |
| 63 | 412.71 | 441.24 | 502.65 | 569.66 | 629.87 | 678.14 | 710.97 | 715.23 | 723.03 | 698.60 |
| 66 | 360.85 | 408.43 | 459.61 | 533.12 | 589.18 | 643.90 | 674.12 | 680.82 | 687.87 | 662.89 |
| 69 | 310.85 | 365.49 | 420.27 | 493.74 | 549.66 | 607.73 | 637.10 | 645.90 | 651.10 | 624.29 |
| 72 | 266.92 | 324.79 | 388.66 | 454.68 | 517.04 | 571.15 | 601.79 | 611.67 | 615.91 | 587.07 |
| 75 | 224.88 | 287.73 | 355.97 | 422.57 | 483.99 | 535.35 | 565.01 | 579.27 | 581.31 | 549.21 |
| 78 | 187.37 | 258.80 | 325.90 | 390.62 | 448.88 | 500.67 | 529.17 | 546.02 | 546.39 | 511.95 |
| 81 | 157.16 | 230.01 | 289.72 | 354.51 | 411.35 | 463.37 | 488.91 | 506.58 | 505.52 | 484.57 |
| 84 | 128.83 | 206.20 | 263.58 | 329.09 | 388.38 | 436.08 | 455.67 | 472.38 | 470.13 | 459.90 |
| 87 | 103.32 | 178.95 | 234.12 | 299.58 | 351.36 | 405.54 | 437.27 | 442.41 | 441.97 | 417.09 |
| 90 | 85.11 | 152.83 | 208.52 | 274.96 | 333.81 | 372.64 | 406.30 | 421.14 | 414.03 | 382.44 |
| 93 | 52.19 | 93.62 | 122.91 | 172.70 | 204.53 | 243.71 | 215.73 | 237.02 | 211.67 | 234.71 |
| 96 | 7.56 | 11.35 | 18.37 | 22.80 | 26.50 | 33.54 | 29.66 | 22.19 | 24.51 | 32.48 |
| 99 | 0.07 | 0.15 | 0.77 | 0.94 | 2.57 | 5.36 | 7.31 | 3.42 | 5.55 | 6.62 |
| 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LDA48-LED40DMVXXRF40.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-----|------|------|------|------|------|------|------|------|------|------|
| 108 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Vert. Horizontal Angles
Angles

| | <u>300</u> | <u>310</u> | <u>320</u> | <u>330</u> | <u>340</u> | <u>350</u> | <u>360</u> |
|----|------------|------------|------------|------------|------------|------------|------------|
| 0 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 | 1199.50 |
| 3 | 1196.12 | 1197.86 | 1199.78 | 1200.87 | 1202.72 | 1203.52 | 1204.17 |
| 6 | 1193.30 | 1196.37 | 1199.01 | 1201.38 | 1203.09 | 1203.53 | 1203.74 |
| 9 | 1189.28 | 1192.01 | 1194.40 | 1195.47 | 1195.59 | 1193.05 | 1192.03 |
| 12 | 1180.63 | 1182.08 | 1184.40 | 1183.32 | 1180.34 | 1176.41 | 1173.90 |
| 15 | 1167.13 | 1166.30 | 1165.26 | 1163.79 | 1161.21 | 1156.14 | 1154.90 |
| 18 | 1151.38 | 1147.00 | 1139.38 | 1136.34 | 1133.25 | 1133.73 | 1132.16 |
| 21 | 1133.29 | 1127.08 | 1116.18 | 1107.18 | 1104.57 | 1103.20 | 1102.44 |
| 24 | 1111.01 | 1106.99 | 1092.43 | 1077.73 | 1074.39 | 1068.90 | 1069.69 |
| 27 | 1087.06 | 1080.43 | 1064.77 | 1049.45 | 1036.84 | 1031.84 | 1037.59 |
| 30 | 1060.24 | 1044.87 | 1026.49 | 1015.76 | 997.22 | 992.14 | 1001.44 |
| 33 | 1032.84 | 1013.78 | 989.39 | 981.24 | 957.49 | 956.17 | 956.57 |
| 36 | 1004.67 | 982.11 | 948.87 | 943.12 | 915.68 | 918.44 | 906.50 |
| 39 | 970.95 | 944.96 | 904.55 | 892.55 | 872.97 | 869.02 | 856.58 |
| 42 | 935.33 | 903.67 | 869.56 | 850.51 | 825.30 | 810.42 | 810.42 |
| 45 | 895.38 | 863.95 | 834.14 | 807.56 | 777.70 | 754.07 | 768.22 |
| 48 | 852.80 | 823.34 | 792.73 | 758.76 | 729.36 | 704.49 | 718.52 |
| 51 | 812.90 | 782.10 | 746.96 | 707.13 | 671.32 | 661.10 | 653.70 |
| 54 | 776.39 | 743.17 | 698.83 | 650.02 | 625.60 | 610.31 | 592.23 |
| 57 | 745.03 | 700.26 | 659.56 | 603.55 | 577.30 | 555.51 | 549.80 |
| 60 | 709.07 | 656.55 | 617.27 | 555.35 | 523.34 | 503.58 | 505.35 |
| 63 | 667.01 | 616.57 | 568.26 | 510.14 | 474.99 | 449.37 | 438.84 |
| 66 | 622.16 | 580.03 | 524.85 | 471.44 | 423.24 | 386.81 | 370.87 |
| 69 | 583.15 | 541.36 | 483.45 | 425.05 | 379.38 | 332.55 | 323.22 |
| 72 | 548.88 | 500.43 | 447.55 | 381.61 | 334.42 | 289.71 | 281.08 |
| 75 | 512.44 | 460.96 | 404.45 | 342.03 | 286.50 | 238.20 | 226.80 |
| 78 | 477.25 | 422.98 | 369.69 | 307.61 | 243.83 | 186.76 | 167.93 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LDA48-LED40DMVXXRF40.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|
| 81 | 442.47 | 392.40 | 342.23 | 279.66 | 217.82 | 148.34 | 123.61 |
| 84 | 411.80 | 366.74 | 300.41 | 244.88 | 181.47 | 114.41 | 78.83 |
| 87 | 383.76 | 336.94 | 275.07 | 215.85 | 148.62 | 80.76 | 40.60 |
| 90 | 352.00 | 293.16 | 240.57 | 187.13 | 123.79 | 56.01 | 19.66 |
| 93 | 195.91 | 148.59 | 114.25 | 90.22 | 54.14 | 17.97 | 0.94 |
| 96 | 22.98 | 13.36 | 12.47 | 6.52 | 4.86 | 1.68 | 0.08 |
| 99 | 6.13 | 3.90 | 3.25 | 2.70 | 1.74 | 0.45 | 0.04 |
| 102 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 105 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 108 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 111 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 114 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 117 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 120 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 123 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 126 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 129 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 132 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 135 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 138 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 141 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 144 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 147 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 150 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 153 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 156 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 159 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 162 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 165 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 168 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 171 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 174 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 177 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| 180 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LDA48-LED40DMVXXRF40.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 359.82 | N.A. | 8.60 |
| 0-30 | 935.05 | N.A. | 22.40 |
| 0-40 | 1474.44 | N.A. | 35.30 |
| 0-60 | 2795.61 | N.A. | 67.00 |
| 0-80 | 3688.87 | N.A. | 88.40 |
| 0-90 | 4087.68 | N.A. | 97.90 |
| 10-90 | 3995.26 | N.A. | 95.70 |
| 20-40 | 1114.62 | N.A. | 26.70 |
| 20-50 | 1690.91 | N.A. | 40.50 |
| 40-70 | 1810.69 | N.A. | 43.40 |
| 60-80 | 893.26 | N.A. | 21.40 |
| 70-80 | 403.74 | N.A. | 9.70 |
| 80-90 | 398.81 | N.A. | 9.60 |
| 90-110 | 86.06 | N.A. | 2.10 |
| 90-120 | 86.06 | N.A. | 2.10 |
| 90-130 | 86.06 | N.A. | 2.10 |
| 90-150 | 86.06 | N.A. | 2.10 |
| 90-180 | 86.06 | N.A. | 2.10 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 4173.73 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 92.41 |
| 10-20 | 267.41 |
| 20-30 | 575.22 |
| 30-40 | 539.40 |
| 40-50 | 576.29 |
| 50-60 | 744.88 |
| 60-70 | 489.52 |
| 70-80 | 403.74 |
| 80-90 | 398.81 |
| 90-100 | 85.73 |
| 100-110 | 0.33 |
| 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 |

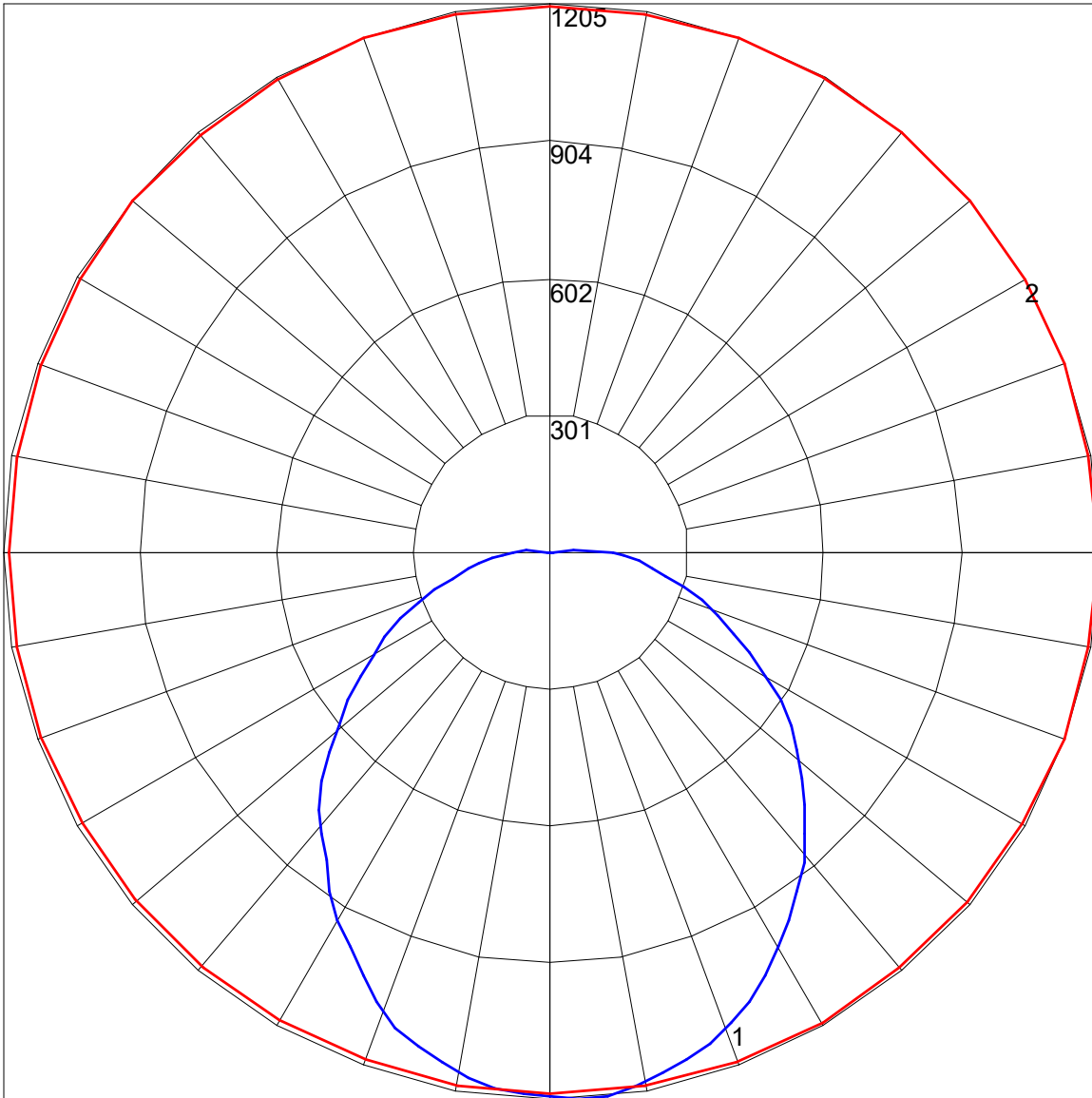
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LDA48-LED40DMVXXRF40.IES

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | 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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1 | 105 | 98 | 93 | 88 | 102 | 96 | 91 | 86 | 91 | 87 | 83 | 87 | 83 | 80 | 83 | 80 | 77 | 75 |
| 2 | 94 | 84 | 76 | 69 | 91 | 82 | 74 | 68 | 78 | 72 | 66 | 74 | 69 | 64 | 71 | 66 | 62 | 60 |
| 3 | 85 | 73 | 64 | 56 | 82 | 71 | 63 | 56 | 68 | 60 | 54 | 65 | 58 | 53 | 62 | 56 | 52 | 49 |
| 4 | 78 | 64 | 54 | 47 | 75 | 63 | 53 | 46 | 60 | 52 | 45 | 57 | 50 | 45 | 55 | 49 | 44 | 41 |
| 5 | 71 | 57 | 47 | 40 | 69 | 56 | 46 | 40 | 53 | 45 | 39 | 51 | 44 | 38 | 49 | 43 | 38 | 35 |
| 6 | 65 | 51 | 41 | 34 | 63 | 50 | 41 | 34 | 48 | 40 | 34 | 46 | 39 | 33 | 44 | 38 | 33 | 30 |
| 7 | 61 | 46 | 37 | 30 | 59 | 45 | 36 | 30 | 43 | 35 | 30 | 42 | 34 | 29 | 40 | 34 | 29 | 27 |
| 8 | 56 | 42 | 33 | 27 | 54 | 41 | 32 | 26 | 40 | 32 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 24 |
| 9 | 52 | 38 | 30 | 24 | 51 | 38 | 29 | 24 | 36 | 29 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 |
| 10 | 49 | 35 | 27 | 21 | 48 | 35 | 27 | 21 | 33 | 26 | 21 | 32 | 26 | 21 | 31 | 25 | 21 | 19 |

POLAR GRAPH



Maximum Candela = 1204.99 Located At Horizontal Angle = 20, Vertical Angle = 3
1 - Vertical Plane Through Horizontal Angles (20 - 200) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3) (Through Max. Cd.)