

Photometric Test Report

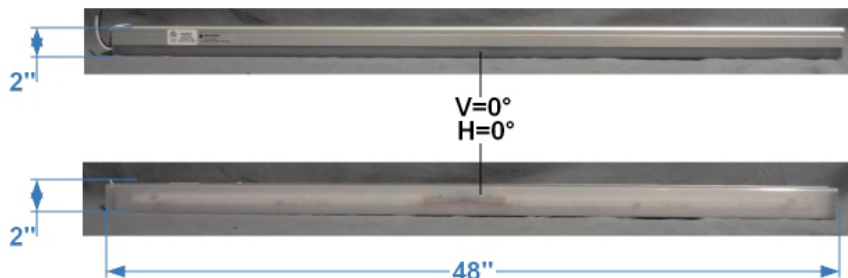
IES INDOOR REPORT
PHOTOMETRIC FILENAME : L061500304.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] L061500304
[TESTLAB] LIGHT LABORATORY, INC.
[ISSUE DATE] 6/8/2015
[MANUFAC] AIREY THOMPSON
[LUMCAT] 51LN48
[LUMINAIRE] 2"L. X 48"W. X 2"H. LED FIXTURE
[MORE] DIFFUSED LENS
[BALLASTCAT] OSRAM OPTOTRONIC OT30W/PRG1050C/UNV/DIM/L
[BALLAST] INPUT: 120-277VAC, 0.32-0.15A, 50/60Hz OUTPUT: 30W, 10-55VDC, 350-1050mA
[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, 15.40W
[TEST PROCEDURE] IESNA:LM-79-08

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1778 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 115 |
| Total Luminaire Watts | 15.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.24 |
| Spacing Criterion (Diagonal) | 1.32 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 0.17 ft |
| Luminous Width (90-270) | 3.98 ft |
| Luminous Height | 0.08 ft |



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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5817 | 6198 | 8249 |
| 55 | 4561 | 5282 | 7253 |
| 65 | 3902 | 3901 | 5972 |
| 75 | 3081 | 3138 | 4337 |
| 85 | 2028 | 1962 | 1805 |

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 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 |
| 5 | 613.79 | 613.84 | 613.88 | 613.88 | 613.92 | 613.84 | 613.96 | 613.96 | 613.88 | 613.79 |
| 10 | 605.14 | 604.97 | 605.10 | 605.14 | 605.18 | 605.35 | 605.31 | 605.48 | 605.57 | 605.40 |
| 15 | 587.83 | 587.83 | 588.00 | 588.26 | 588.26 | 588.17 | 588.47 | 588.56 | 588.73 | 589.50 |
| 20 | 565.21 | 565.21 | 565.21 | 565.16 | 565.64 | 566.49 | 566.62 | 566.62 | 566.28 | 566.88 |
| 25 | 533.24 | 533.37 | 533.46 | 533.59 | 534.19 | 534.70 | 535.86 | 537.23 | 537.61 | 539.07 |
| 30 | 500.08 | 500.04 | 500.17 | 500.34 | 500.43 | 500.55 | 500.90 | 500.64 | 501.28 | 503.04 |
| 35 | 460.07 | 460.07 | 460.41 | 461.14 | 462.47 | 462.47 | 461.74 | 461.74 | 462.25 | 462.25 |
| 40 | 412.42 | 412.21 | 411.82 | 411.74 | 411.82 | 413.19 | 415.68 | 419.06 | 419.79 | 418.98 |
| 45 | 380.55 | 379.86 | 378.02 | 375.92 | 373.56 | 370.65 | 368.42 | 366.02 | 367.22 | 371.42 |
| 50 | 350.98 | 351.45 | 352.65 | 353.38 | 353.21 | 346.74 | 337.92 | 330.20 | 324.12 | 319.54 |
| 55 | 275.23 | 275.11 | 274.51 | 273.61 | 274.46 | 279.65 | 287.70 | 297.09 | 295.76 | 285.05 |
| 60 | 234.70 | 234.49 | 233.59 | 232.30 | 230.68 | 229.52 | 229.05 | 229.05 | 227.29 | 235.86 |
| 65 | 208.48 | 207.75 | 205.78 | 202.96 | 198.89 | 194.90 | 190.87 | 186.93 | 183.33 | 180.93 |
| 70 | 181.49 | 180.98 | 179.78 | 177.29 | 173.82 | 169.88 | 166.49 | 161.10 | 152.44 | 144.47 |
| 75 | 138.30 | 137.96 | 137.02 | 135.73 | 133.98 | 131.70 | 129.26 | 126.95 | 123.61 | 117.27 |
| 80 | 103.43 | 103.26 | 102.74 | 101.84 | 100.34 | 98.20 | 95.24 | 91.52 | 87.06 | 82.09 |
| 85 | 70.95 | 70.65 | 70.14 | 69.19 | 67.78 | 65.94 | 63.62 | 60.93 | 57.37 | 53.43 |
| 90 | 50.73 | 50.51 | 50.09 | 49.27 | 48.12 | 46.62 | 44.64 | 42.12 | 39.07 | 35.65 |
| 95 | 42.25 | 42.07 | 41.82 | 41.22 | 40.32 | 39.16 | 37.62 | 35.73 | 33.33 | 30.59 |
| 100 | 37.45 | 37.45 | 37.19 | 36.72 | 36.08 | 35.13 | 33.98 | 32.31 | 30.33 | 27.94 |
| 105 | 34.96 | 34.92 | 34.75 | 34.45 | 33.89 | 33.12 | 32.18 | 30.81 | 28.96 | 26.86 |
| 110 | 33.85 | 33.80 | 33.63 | 33.42 | 32.99 | 32.31 | 31.41 | 30.16 | 28.54 | 26.56 |
| 115 | 33.42 | 33.42 | 33.29 | 33.08 | 32.65 | 32.05 | 31.19 | 29.99 | 28.32 | 26.26 |
| 120 | 33.42 | 33.29 | 33.16 | 32.82 | 32.43 | 31.71 | 30.68 | 29.39 | 27.85 | 26.22 |
| 125 | 32.82 | 32.73 | 32.56 | 32.22 | 31.75 | 31.11 | 30.33 | 29.35 | 27.46 | 24.42 |
| 130 | 32.73 | 32.61 | 32.39 | 32.05 | 31.32 | 30.12 | 28.32 | 26.01 | 23.35 | 20.52 |
| 135 | 29.22 | 29.09 | 28.58 | 27.76 | 26.65 | 25.28 | 23.48 | 21.38 | 18.98 | 16.54 |
| 140 | 23.82 | 23.69 | 23.27 | 22.58 | 21.59 | 20.44 | 19.11 | 17.27 | 15.38 | 13.63 |
| 145 | 19.19 | 19.11 | 18.85 | 18.34 | 17.70 | 16.80 | 15.30 | 13.93 | 12.64 | 11.31 |
| 150 | 15.77 | 15.68 | 15.42 | 15.08 | 14.48 | 13.28 | 12.30 | 11.31 | 10.41 | 9.51 |
| 155 | 12.77 | 12.68 | 12.51 | 12.21 | 11.27 | 10.45 | 9.81 | 9.21 | 8.70 | 8.06 |
| 160 | 10.03 | 10.03 | 9.85 | 9.21 | 8.66 | 8.18 | 7.84 | 7.54 | 7.11 | 6.51 |
| 165 | 7.63 | 7.63 | 7.20 | 6.77 | 6.47 | 6.34 | 6.17 | 6.00 | 5.57 | 5.31 |
| 170 | 5.66 | 5.44 | 5.06 | 4.84 | 4.84 | 4.76 | 4.71 | 4.63 | 4.46 | 4.33 |
| 175 | 3.94 | 3.73 | 3.73 | 3.77 | 3.77 | 3.81 | 3.77 | 3.81 | 3.69 | 3.69 |
| 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>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 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 | 616.92 |
| 5 | 613.62 | 613.58 | 613.54 | 613.49 | 613.28 | 613.11 | 613.24 | 613.58 | 613.71 |
| 10 | 605.22 | 605.05 | 604.75 | 604.84 | 604.58 | 604.37 | 604.15 | 603.98 | 604.54 |
| 15 | 589.76 | 590.01 | 590.14 | 589.71 | 589.46 | 589.41 | 589.03 | 588.56 | 589.20 |
| 20 | 567.13 | 567.31 | 568.25 | 568.72 | 568.46 | 568.12 | 567.73 | 567.26 | 567.78 |
| 25 | 539.24 | 539.54 | 539.67 | 540.53 | 541.26 | 540.91 | 540.70 | 540.14 | 540.27 |
| 30 | 504.28 | 506.08 | 506.04 | 506.60 | 507.37 | 508.14 | 507.58 | 506.94 | 507.20 |
| 35 | 462.51 | 464.86 | 466.75 | 467.09 | 467.09 | 468.42 | 468.64 | 467.69 | 467.86 |
| 40 | 419.71 | 419.11 | 420.39 | 422.88 | 423.31 | 423.35 | 423.99 | 423.69 | 423.39 |
| 45 | 373.09 | 372.75 | 372.15 | 372.41 | 375.02 | 374.42 | 375.41 | 375.23 | 374.38 |
| 50 | 319.71 | 323.26 | 323.39 | 322.45 | 322.75 | 323.82 | 323.86 | 323.82 | 322.79 |
| 55 | 275.49 | 269.88 | 271.81 | 271.55 | 270.14 | 270.78 | 270.48 | 270.48 | 269.24 |
| 60 | 241.52 | 232.26 | 221.68 | 220.39 | 219.92 | 217.78 | 217.78 | 217.39 | 216.02 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 65 | 180.59 | 182.05 | 184.92 | 174.89 | 170.86 | 169.45 | 167.95 | 166.84 | 165.64 |
| 70 | 138.90 | 135.22 | 133.46 | 133.42 | 128.58 | 123.44 | 120.74 | 119.41 | 118.34 |
| 75 | 111.01 | 102.36 | 94.86 | 90.45 | 87.36 | 84.15 | 79.61 | 77.29 | 75.92 |
| 80 | 76.82 | 71.59 | 65.60 | 59.25 | 52.66 | 47.77 | 43.87 | 40.79 | 39.33 |
| 85 | 48.80 | 43.62 | 38.30 | 32.56 | 27.21 | 21.81 | 17.14 | 13.71 | 12.17 |
| 90 | 31.71 | 27.46 | 22.88 | 18.12 | 13.45 | 8.87 | 4.84 | 1.67 | 0.34 |
| 95 | 27.25 | 23.57 | 19.58 | 15.42 | 11.44 | 7.46 | 3.99 | 1.37 | 0.00 |
| 100 | 25.06 | 21.85 | 18.25 | 14.57 | 10.84 | 7.20 | 3.81 | 0.00 | 0.00 |
| 105 | 24.16 | 21.29 | 18.04 | 14.61 | 11.10 | 7.24 | 3.77 | 0.00 | 0.00 |
| 110 | 24.04 | 21.17 | 18.17 | 15.04 | 10.88 | 6.73 | 3.60 | 0.00 | 0.00 |
| 115 | 23.91 | 21.47 | 18.30 | 13.80 | 9.55 | 6.26 | 3.60 | 0.00 | 0.00 |
| 120 | 23.86 | 20.18 | 15.94 | 11.95 | 8.74 | 5.87 | 3.47 | 0.00 | 0.00 |
| 125 | 20.78 | 17.18 | 13.67 | 10.58 | 7.88 | 5.40 | 3.39 | 0.00 | 0.00 |
| 130 | 17.22 | 14.35 | 11.65 | 9.17 | 6.98 | 5.01 | 3.26 | 0.00 | 0.00 |
| 135 | 14.22 | 12.08 | 10.03 | 8.06 | 6.26 | 4.58 | 3.13 | 0.00 | 0.00 |
| 140 | 11.95 | 10.28 | 8.66 | 7.07 | 5.57 | 4.28 | 3.04 | 0.00 | 0.00 |
| 145 | 10.11 | 8.87 | 7.46 | 6.17 | 5.01 | 3.94 | 3.00 | 0.00 | 0.00 |
| 150 | 8.66 | 7.58 | 6.43 | 5.44 | 4.58 | 3.69 | 0.00 | 0.00 | 0.00 |
| 155 | 7.28 | 6.38 | 5.61 | 4.93 | 4.20 | 3.60 | 0.00 | 0.00 | 0.00 |
| 160 | 5.96 | 5.53 | 4.93 | 4.37 | 3.94 | 3.56 | 0.00 | 0.00 | 0.00 |
| 165 | 4.97 | 4.63 | 4.37 | 4.03 | 3.73 | 3.43 | 0.00 | 0.00 | 0.00 |
| 170 | 4.20 | 4.03 | 3.86 | 3.69 | 3.51 | 3.39 | 0.00 | 0.00 | 0.00 |
| 175 | 3.69 | 3.64 | 3.51 | 3.51 | 3.39 | 3.30 | 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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 224.38 | N.A. | 12.60 |
| 0-30 | 471.99 | N.A. | 26.60 |
| 0-40 | 761.66 | N.A. | 42.80 |
| 0-60 | 1300.07 | N.A. | 73.10 |
| 0-80 | 1603.97 | N.A. | 90.20 |
| 0-90 | 1659.69 | N.A. | 93.40 |
| 10-90 | 1601.39 | N.A. | 90.10 |
| 20-40 | 537.28 | N.A. | 30.20 |
| 20-50 | 826.50 | N.A. | 46.50 |
| 40-70 | 723.57 | N.A. | 40.70 |
| 60-80 | 303.90 | N.A. | 17.10 |
| 70-80 | 118.74 | N.A. | 6.70 |
| 80-90 | 55.72 | N.A. | 3.10 |
| 90-110 | 53.45 | N.A. | 3.00 |
| 90-120 | 75.12 | N.A. | 4.20 |
| 90-130 | 93.32 | N.A. | 5.20 |
| 90-150 | 112.87 | N.A. | 6.30 |
| 90-180 | 118.04 | N.A. | 6.60 |
| 110-180 | 64.59 | N.A. | 3.60 |
| 0-180 | 1777.73 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 58.31 |
| 10-20 | 166.07 |
| 20-30 | 247.61 |
| 30-40 | 289.67 |
| 40-50 | 289.22 |
| 50-60 | 249.20 |
| 60-70 | 185.16 |
| 70-80 | 118.74 |
| 80-90 | 55.72 |
| 90-100 | 29.32 |
| 100-110 | 24.13 |
| 110-120 | 21.67 |
| 120-130 | 18.20 |
| 130-140 | 12.54 |
| 140-150 | 7.00 |
| 150-160 | 3.48 |
| 160-170 | 1.40 |
| 170-180 | 0.29 |

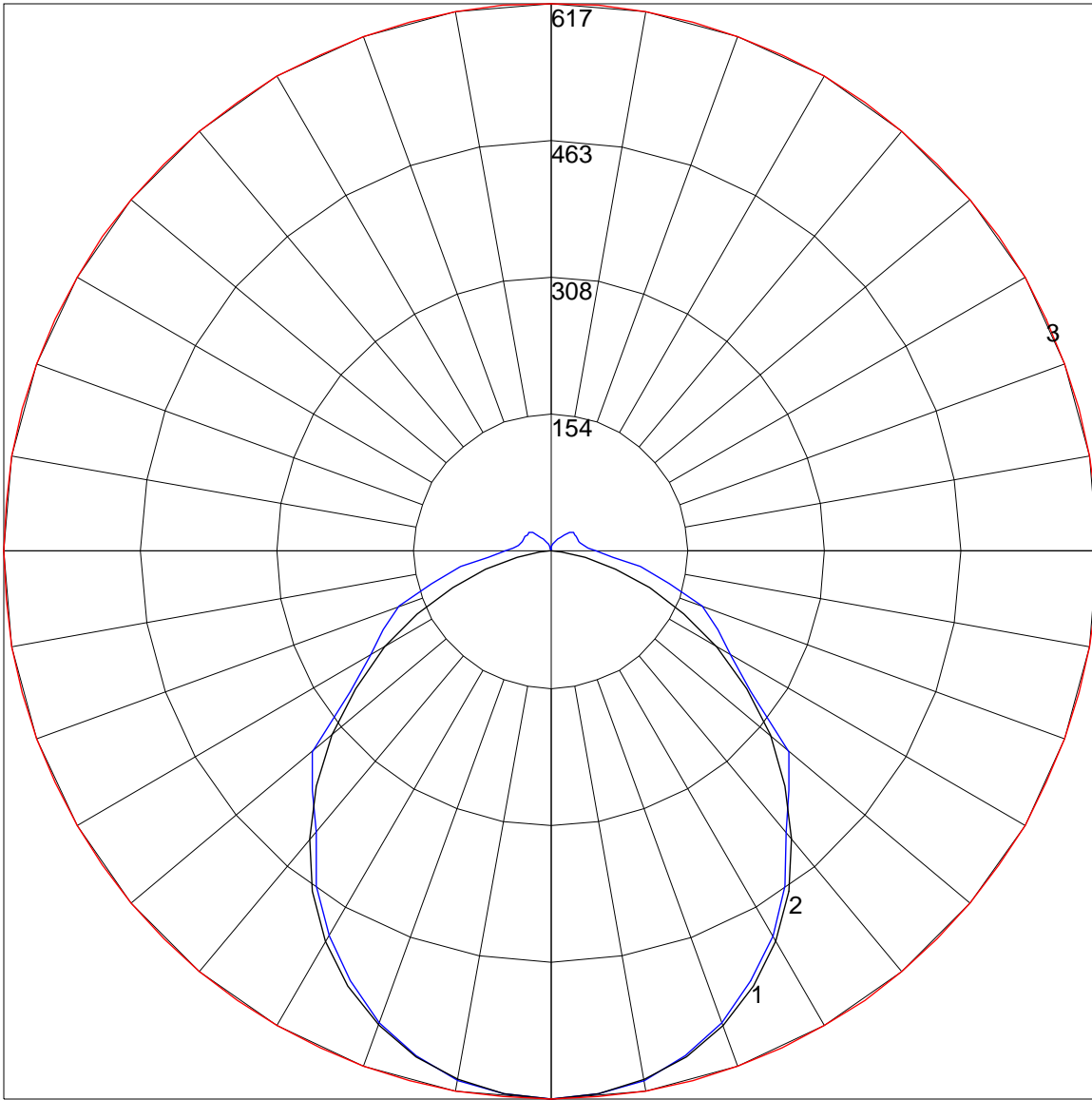
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 117 | 117 | 117 | 117 | 117 | 114 | 114 | 114 | 114 | 107 | 107 | 107 | 101 | 101 | 101 | 96 | 96 | 96 | 93 |
| 1 | 107 | 102 | 98 | 94 | | 103 | 99 | 95 | 91 | 94 | 90 | 87 | 88 | 86 | 83 | 84 | 82 | 80 | 77 |
| 2 | 97 | 89 | 82 | 76 | | 94 | 86 | 80 | 75 | 82 | 77 | 72 | 78 | 73 | 69 | 74 | 70 | 67 | 64 |
| 3 | 89 | 78 | 70 | 64 | | 86 | 76 | 69 | 63 | 72 | 66 | 61 | 69 | 63 | 59 | 65 | 61 | 57 | 54 |
| 4 | 81 | 69 | 61 | 54 | | 78 | 68 | 60 | 53 | 64 | 57 | 52 | 61 | 55 | 50 | 58 | 53 | 49 | 47 |
| 5 | 75 | 62 | 53 | 47 | | 72 | 61 | 52 | 46 | 58 | 50 | 45 | 55 | 49 | 44 | 53 | 47 | 43 | 41 |
| 6 | 69 | 56 | 47 | 41 | | 67 | 55 | 46 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 48 | 42 | 38 | 36 |
| 7 | 64 | 51 | 42 | 36 | | 62 | 50 | 42 | 36 | 48 | 40 | 35 | 46 | 39 | 34 | 44 | 38 | 34 | 32 |
| 8 | 60 | 46 | 38 | 32 | | 58 | 45 | 37 | 32 | 44 | 36 | 31 | 42 | 35 | 31 | 40 | 34 | 30 | 28 |
| 9 | 56 | 43 | 34 | 29 | | 54 | 42 | 34 | 29 | 40 | 33 | 28 | 39 | 32 | 28 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 32 | 26 | | 51 | 39 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 25 | 34 | 29 | 25 | 23 |

POLAR GRAPH



Maximum Candela = 616.92 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)