

IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-840-BL-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.05
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-11
[TEST DATE] 11/11/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6LDR-L15-840-BL-DIM-UNV
[LUMINAIRE] 4" recessed downlight with textured black finish reflector
[MORE] and top diffuser lens
[LAMP] LED
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 587 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 43 |
| Total Luminaire Watts | 13.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.00 |
| Spacing Criterion (90-270) | 1.00 |
| Spacing Criterion (Diagonal) | 0.94 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.50 ft (Diameter) |
| Luminous Width (90-270) | 0.50 ft (Diameter) |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4142 | 4142 | 4142 |
| 55 | 536 | 536 | 536 |
| 65 | 186 | 186 | 186 |
| 75 | 80 | 80 | 80 |
| 85 | 53 | 53 | 53 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 587.100 |
| 0.5 | 587.100 |
| 1.0 | 587.100 |
| 1.5 | 586.678 |
| 2.0 | 586.255 |
| 2.5 | 585.833 |
| 3.0 | 585.411 |
| 3.5 | 584.143 |
| 4.0 | 583.299 |
| 4.5 | 582.454 |
| 5.0 | 581.187 |
| 5.5 | 580.342 |
| 6.0 | 578.653 |
| 6.5 | 577.385 |
| 7.0 | 575.696 |
| 7.5 | 574.006 |
| 8.0 | 572.317 |
| 8.5 | 570.205 |
| 9.0 | 568.093 |
| 9.5 | 565.981 |
| 10.0 | 563.869 |
| 10.5 | 561.335 |
| 11.0 | 558.801 |
| 11.5 | 556.267 |
| 12.0 | 553.310 |
| 12.5 | 550.776 |
| 13.0 | 547.397 |
| 13.5 | 544.863 |
| 14.0 | 541.484 |
| 14.5 | 538.527 |
| 15.0 | 535.148 |
| 15.5 | 531.769 |
| 16.0 | 528.812 |
| 16.5 | 525.433 |
| 17.0 | 522.899 |
| 17.5 | 519.520 |
| 18.0 | 516.141 |
| 18.5 | 512.762 |
| 19.0 | 508.538 |
| 19.5 | 503.892 |
| 20.0 | 499.246 |
| 20.5 | 494.600 |
| 21.0 | 489.109 |
| 21.5 | 483.618 |
| 22.0 | 477.283 |
| 22.5 | 470.947 |
| 23.0 | 463.767 |
| 23.5 | 456.164 |
| 24.0 | 447.717 |
| 24.5 | 438.847 |
| 25.0 | 429.977 |
| 25.5 | 420.685 |
| 26.0 | 410.970 |
| 26.5 | 400.960 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 390.696 |
| 27.5 | 380.137 |
| 28.0 | 369.324 |
| 28.5 | 358.342 |
| 29.0 | 347.318 |
| 29.5 | 336.168 |
| 30.0 | 325.059 |
| 30.5 | 313.866 |
| 31.0 | 302.631 |
| 31.5 | 291.438 |
| 32.0 | 280.330 |
| 32.5 | 269.306 |
| 33.0 | 258.408 |
| 33.5 | 247.722 |
| 34.0 | 237.205 |
| 34.5 | 226.773 |
| 35.0 | 216.593 |
| 35.5 | 206.583 |
| 36.0 | 196.742 |
| 36.5 | 186.985 |
| 37.0 | 177.482 |
| 37.5 | 168.105 |
| 38.0 | 158.939 |
| 38.5 | 149.943 |
| 39.0 | 141.073 |
| 39.5 | 132.330 |
| 40.0 | 123.840 |
| 40.5 | 115.562 |
| 41.0 | 107.494 |
| 41.5 | 99.680 |
| 42.0 | 92.120 |
| 42.5 | 84.813 |
| 43.0 | 77.886 |
| 43.5 | 71.255 |
| 44.0 | 64.961 |
| 44.5 | 59.048 |
| 45.0 | 53.473 |
| 45.5 | 48.235 |
| 46.0 | 43.378 |
| 46.5 | 38.901 |
| 47.0 | 34.804 |
| 47.5 | 31.044 |
| 48.0 | 27.623 |
| 48.5 | 24.498 |
| 49.0 | 21.710 |
| 49.5 | 19.218 |
| 50.0 | 16.979 |
| 50.5 | 14.994 |
| 51.0 | 13.263 |
| 51.5 | 11.784 |
| 52.0 | 10.475 |
| 52.5 | 9.334 |
| 53.0 | 8.363 |
| 53.5 | 7.518 |
| 54.0 | 6.800 |
| 54.5 | 6.167 |

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CANDELA TABULATION - (Cont.)

| | |
|------|-------|
| 55.0 | 5.618 |
| 55.5 | 5.195 |
| 56.0 | 4.815 |
| 56.5 | 4.519 |
| 57.0 | 4.266 |
| 57.5 | 4.013 |
| 58.0 | 3.759 |
| 58.5 | 3.506 |
| 59.0 | 3.295 |
| 59.5 | 3.041 |
| 60.0 | 2.872 |
| 60.5 | 2.661 |
| 61.0 | 2.492 |
| 61.5 | 2.323 |
| 62.0 | 2.154 |
| 62.5 | 2.027 |
| 63.0 | 1.901 |
| 63.5 | 1.774 |
| 64.0 | 1.647 |
| 64.5 | 1.563 |
| 65.0 | 1.436 |
| 65.5 | 1.352 |
| 66.0 | 1.267 |
| 66.5 | 1.183 |
| 67.0 | 1.098 |
| 67.5 | 1.056 |
| 68.0 | 0.971 |
| 68.5 | 0.929 |
| 69.0 | 0.845 |
| 69.5 | 0.803 |
| 70.0 | 0.760 |
| 70.5 | 0.718 |
| 71.0 | 0.676 |
| 71.5 | 0.634 |
| 72.0 | 0.591 |
| 72.5 | 0.549 |
| 73.0 | 0.507 |
| 73.5 | 0.507 |
| 74.0 | 0.465 |
| 74.5 | 0.422 |
| 75.0 | 0.380 |
| 75.5 | 0.380 |
| 76.0 | 0.338 |
| 76.5 | 0.338 |
| 77.0 | 0.296 |
| 77.5 | 0.296 |
| 78.0 | 0.253 |
| 78.5 | 0.253 |
| 79.0 | 0.253 |
| 79.5 | 0.211 |
| 80.0 | 0.211 |
| 80.5 | 0.169 |
| 81.0 | 0.169 |
| 81.5 | 0.169 |
| 82.0 | 0.169 |
| 82.5 | 0.127 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 0.127 |
| 83.5 | 0.127 |
| 84.0 | 0.084 |
| 84.5 | 0.084 |
| 85.0 | 0.084 |
| 85.5 | 0.084 |
| 86.0 | 0.084 |
| 86.5 | 0.042 |
| 87.0 | 0.042 |
| 87.5 | 0.042 |
| 88.0 | 0.042 |
| 88.5 | 0.042 |
| 89.0 | 0.042 |
| 89.5 | 0.042 |
| 90.0 | 0.000 |
| 90.5 | 0.000 |
| 91.0 | 0.000 |
| 91.5 | 0.000 |
| 92.0 | 0.000 |
| 92.5 | 0.000 |
| 93.0 | 0.000 |
| 93.5 | 0.000 |
| 94.0 | 0.000 |
| 94.5 | 0.000 |
| 95.0 | 0.000 |
| 95.5 | 0.000 |
| 96.0 | 0.000 |
| 96.5 | 0.000 |
| 97.0 | 0.000 |
| 97.5 | 0.000 |
| 98.0 | 0.000 |
| 98.5 | 0.000 |
| 99.0 | 0.000 |
| 99.5 | 0.000 |
| 100.0 | 0.000 |
| 100.5 | 0.000 |
| 101.0 | 0.000 |
| 101.5 | 0.000 |
| 102.0 | 0.000 |
| 102.5 | 0.000 |
| 103.0 | 0.000 |
| 103.5 | 0.000 |
| 104.0 | 0.000 |
| 104.5 | 0.000 |
| 105.0 | 0.000 |
| 105.5 | 0.000 |
| 106.0 | 0.000 |
| 106.5 | 0.000 |
| 107.0 | 0.000 |
| 107.5 | 0.000 |
| 108.0 | 0.000 |
| 108.5 | 0.000 |
| 109.0 | 0.000 |
| 109.5 | 0.000 |
| 110.0 | 0.000 |
| 110.5 | 0.000 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 111.0 | 0.000 |
| 111.5 | 0.000 |
| 112.0 | 0.000 |
| 112.5 | 0.000 |
| 113.0 | 0.000 |
| 113.5 | 0.000 |
| 114.0 | 0.000 |
| 114.5 | 0.000 |
| 115.0 | 0.000 |
| 115.5 | 0.000 |
| 116.0 | 0.000 |
| 116.5 | 0.000 |
| 117.0 | 0.000 |
| 117.5 | 0.000 |
| 118.0 | 0.000 |
| 118.5 | 0.000 |
| 119.0 | 0.000 |
| 119.5 | 0.000 |
| 120.0 | 0.000 |
| 120.5 | 0.000 |
| 121.0 | 0.000 |
| 121.5 | 0.000 |
| 122.0 | 0.000 |
| 122.5 | 0.000 |
| 123.0 | 0.000 |
| 123.5 | 0.000 |
| 124.0 | 0.000 |
| 124.5 | 0.000 |
| 125.0 | 0.000 |
| 125.5 | 0.000 |
| 126.0 | 0.000 |
| 126.5 | 0.000 |
| 127.0 | 0.000 |
| 127.5 | 0.000 |
| 128.0 | 0.000 |
| 128.5 | 0.000 |
| 129.0 | 0.000 |
| 129.5 | 0.000 |
| 130.0 | 0.000 |
| 130.5 | 0.000 |
| 131.0 | 0.000 |
| 131.5 | 0.000 |
| 132.0 | 0.000 |
| 132.5 | 0.000 |
| 133.0 | 0.000 |
| 133.5 | 0.000 |
| 134.0 | 0.000 |
| 134.5 | 0.000 |
| 135.0 | 0.000 |
| 135.5 | 0.000 |
| 136.0 | 0.000 |
| 136.5 | 0.000 |
| 137.0 | 0.000 |
| 137.5 | 0.000 |
| 138.0 | 0.000 |
| 138.5 | 0.000 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 139.0 | 0.000 |
| 139.5 | 0.000 |
| 140.0 | 0.000 |
| 140.5 | 0.000 |
| 141.0 | 0.000 |
| 141.5 | 0.000 |
| 142.0 | 0.000 |
| 142.5 | 0.000 |
| 143.0 | 0.000 |
| 143.5 | 0.000 |
| 144.0 | 0.000 |
| 144.5 | 0.000 |
| 145.0 | 0.000 |
| 145.5 | 0.000 |
| 146.0 | 0.000 |
| 146.5 | 0.000 |
| 147.0 | 0.000 |
| 147.5 | 0.000 |
| 148.0 | 0.000 |
| 148.5 | 0.000 |
| 149.0 | 0.000 |
| 149.5 | 0.000 |
| 150.0 | 0.000 |
| 150.5 | 0.000 |
| 151.0 | 0.000 |
| 151.5 | 0.000 |
| 152.0 | 0.000 |
| 152.5 | 0.000 |
| 153.0 | 0.000 |
| 153.5 | 0.000 |
| 154.0 | 0.000 |
| 154.5 | 0.000 |
| 155.0 | 0.000 |
| 155.5 | 0.000 |
| 156.0 | 0.000 |
| 156.5 | 0.000 |
| 157.0 | 0.000 |
| 157.5 | 0.000 |
| 158.0 | 0.000 |
| 158.5 | 0.000 |
| 159.0 | 0.000 |
| 159.5 | 0.000 |
| 160.0 | 0.000 |
| 160.5 | 0.000 |
| 161.0 | 0.000 |
| 161.5 | 0.000 |
| 162.0 | 0.000 |
| 162.5 | 0.000 |
| 163.0 | 0.000 |
| 163.5 | 0.000 |
| 164.0 | 0.000 |
| 164.5 | 0.000 |
| 165.0 | 0.000 |
| 165.5 | 0.000 |
| 166.0 | 0.000 |
| 166.5 | 0.000 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 167.0 | 0.000 |
| 167.5 | 0.000 |
| 168.0 | 0.000 |
| 168.5 | 0.000 |
| 169.0 | 0.000 |
| 169.5 | 0.000 |
| 170.0 | 0.000 |
| 170.5 | 0.000 |
| 171.0 | 0.000 |
| 171.5 | 0.000 |
| 172.0 | 0.000 |
| 172.5 | 0.000 |
| 173.0 | 0.000 |
| 173.5 | 0.000 |
| 174.0 | 0.000 |
| 174.5 | 0.000 |
| 175.0 | 0.000 |
| 175.5 | 0.000 |
| 176.0 | 0.000 |
| 176.5 | 0.000 |
| 177.0 | 0.000 |
| 177.5 | 0.000 |
| 178.0 | 0.000 |
| 178.5 | 0.000 |
| 179.0 | 0.000 |
| 179.5 | 0.000 |
| 180.0 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 205.47 | N.A. | 35.00 |
| 0-30 | 399.13 | N.A. | 68.00 |
| 0-40 | 534.29 | N.A. | 91.00 |
| 0-60 | 585.21 | N.A. | 99.60 |
| 0-80 | 587.20 | N.A. | 100.00 |
| 0-90 | 587.30 | N.A. | 100.00 |
| 10-90 | 532.37 | N.A. | 90.60 |
| 20-40 | 328.83 | N.A. | 56.00 |
| 20-50 | 373.55 | N.A. | 63.60 |
| 40-70 | 52.45 | N.A. | 8.90 |
| 60-80 | 1.99 | N.A. | 0.30 |
| 70-80 | 0.45 | N.A. | 0.10 |
| 80-90 | 0.10 | N.A. | 0.00 |
| 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 | 587.30 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 54.93 |
| 10-20 | 150.53 |
| 20-30 | 193.67 |
| 30-40 | 135.16 |
| 40-50 | 44.72 |
| 50-60 | 6.20 |
| 60-70 | 1.54 |
| 70-80 | 0.45 |
| 80-90 | 0.10 |
| 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 |

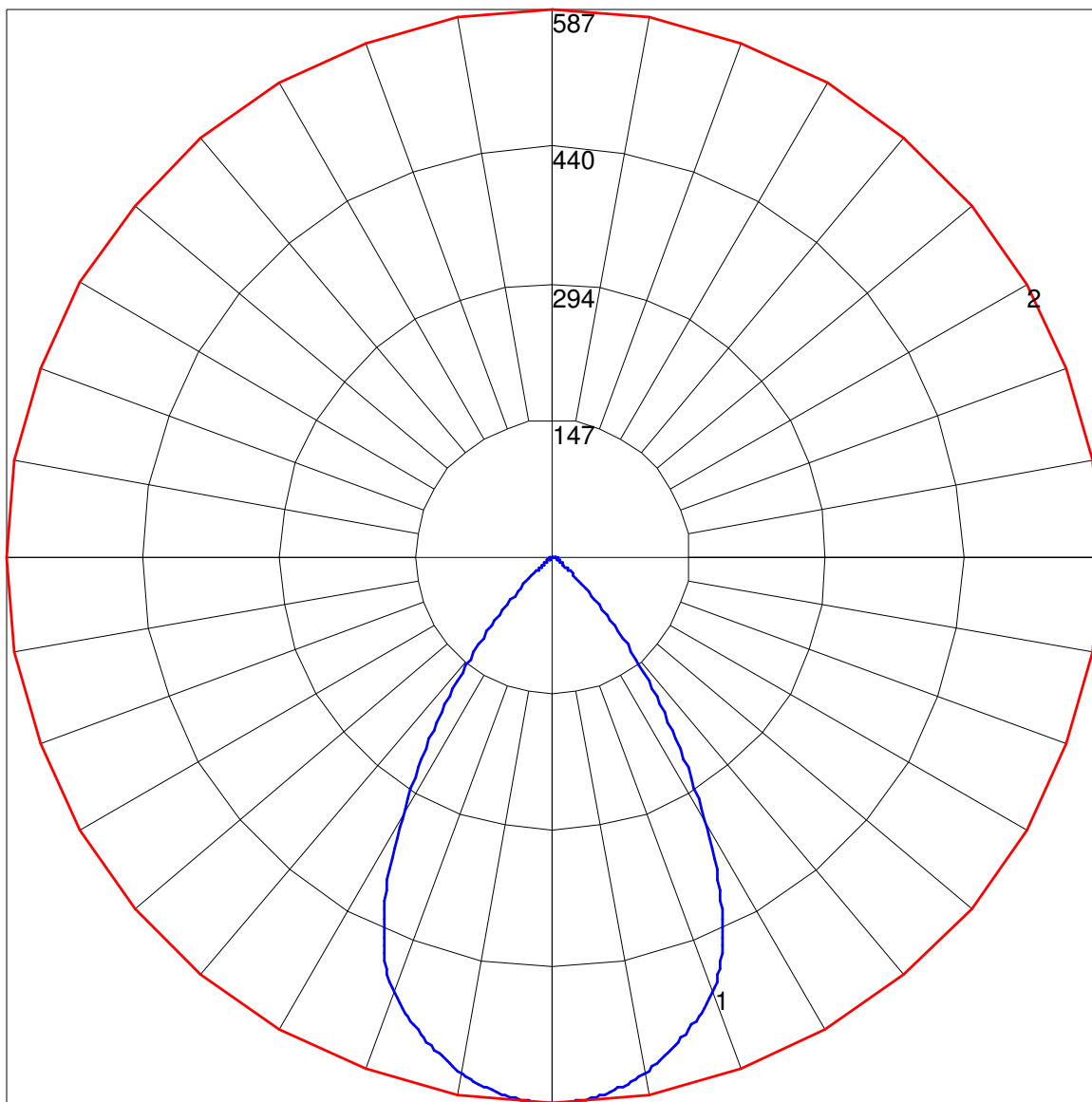
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 95 | 105 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 |
| 3 | 102 | 96 | 90 | 86 | 100 | 94 | 89 | 86 | 92 | 88 | 84 | 89 | 86 | 83 | 87 | 84 | 82 | 80 |
| 4 | 97 | 89 | 83 | 79 | 95 | 88 | 83 | 79 | 86 | 81 | 78 | 84 | 80 | 77 | 82 | 79 | 76 | 74 |
| 5 | 92 | 83 | 77 | 73 | 90 | 82 | 77 | 72 | 80 | 75 | 72 | 79 | 74 | 71 | 77 | 73 | 70 | 69 |
| 6 | 87 | 78 | 72 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 67 | 74 | 69 | 66 | 73 | 69 | 66 | 64 |
| 7 | 82 | 73 | 67 | 62 | 81 | 72 | 66 | 62 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 64 | 61 | 60 |
| 8 | 78 | 68 | 62 | 58 | 77 | 68 | 62 | 58 | 67 | 61 | 58 | 66 | 61 | 57 | 65 | 60 | 57 | 56 |
| 9 | 74 | 64 | 58 | 54 | 73 | 64 | 58 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 61 | 57 | 54 | 52 |
| 10 | 71 | 61 | 55 | 51 | 70 | 60 | 55 | 51 | 59 | 54 | 51 | 59 | 54 | 50 | 58 | 54 | 50 | 49 |

POLAR GRAPH



Maximum Candela = 587.1 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.)