

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6LDR-L15-830-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-L15-830-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                | 564                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 41                 |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 3981             | 3981              | 3981              |
| 55                  | 516              | 516               | 516               |
| 65                  | 179              | 179               | 179               |
| 75                  | 77               | 77                | 77                |
| 85                  | 51               | 51                | 51                |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 564.300  |
| 0.5  | 564.300  |
| 1.0  | 564.300  |
| 1.5  | 563.894  |
| 2.0  | 563.488  |
| 2.5  | 563.082  |
| 3.0  | 562.676  |
| 3.5  | 561.458  |
| 4.0  | 560.646  |
| 4.5  | 559.834  |
| 5.0  | 558.616  |
| 5.5  | 557.804  |
| 6.0  | 556.181  |
| 6.5  | 554.963  |
| 7.0  | 553.339  |
| 7.5  | 551.715  |
| 8.0  | 550.091  |
| 8.5  | 548.061  |
| 9.0  | 546.031  |
| 9.5  | 544.001  |
| 10.0 | 541.972  |
| 10.5 | 539.536  |
| 11.0 | 537.100  |
| 11.5 | 534.664  |
| 12.0 | 531.822  |
| 12.5 | 529.386  |
| 13.0 | 526.139  |
| 13.5 | 523.703  |
| 14.0 | 520.455  |
| 14.5 | 517.613  |
| 15.0 | 514.366  |
| 15.5 | 511.118  |
| 16.0 | 508.276  |
| 16.5 | 505.028  |
| 17.0 | 502.592  |
| 17.5 | 499.345  |
| 18.0 | 496.097  |
| 18.5 | 492.849  |
| 19.0 | 488.789  |
| 19.5 | 484.324  |
| 20.0 | 479.858  |
| 20.5 | 475.392  |
| 21.0 | 470.115  |
| 21.5 | 464.837  |
| 22.0 | 458.747  |
| 22.5 | 452.658  |
| 23.0 | 445.756  |
| 23.5 | 438.449  |
| 24.0 | 430.329  |
| 24.5 | 421.804  |
| 25.0 | 413.279  |
| 25.5 | 404.347  |
| 26.0 | 395.010  |
| 26.5 | 385.388  |

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**CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 27.0 | 375.523 |
| 27.5 | 365.374 |
| 28.0 | 354.981 |
| 28.5 | 344.426 |
| 29.0 | 333.830 |
| 29.5 | 323.112 |
| 30.0 | 312.435 |
| 30.5 | 301.677 |
| 31.0 | 290.878 |
| 31.5 | 280.120 |
| 32.0 | 269.443 |
| 32.5 | 258.847 |
| 33.0 | 248.373 |
| 33.5 | 238.102 |
| 34.0 | 227.993 |
| 34.5 | 217.966 |
| 35.0 | 208.182 |
| 35.5 | 198.561 |
| 36.0 | 189.101 |
| 36.5 | 179.723 |
| 37.0 | 170.589 |
| 37.5 | 161.577 |
| 38.0 | 152.767 |
| 38.5 | 144.120 |
| 39.0 | 135.594 |
| 39.5 | 127.191 |
| 40.0 | 119.031 |
| 40.5 | 111.074 |
| 41.0 | 103.320 |
| 41.5 | 95.809  |
| 42.0 | 88.542  |
| 42.5 | 81.519  |
| 43.0 | 74.861  |
| 43.5 | 68.487  |
| 44.0 | 62.438  |
| 44.5 | 56.755  |
| 45.0 | 51.396  |
| 45.5 | 46.362  |
| 46.0 | 41.693  |
| 46.5 | 37.390  |
| 47.0 | 33.452  |
| 47.5 | 29.839  |
| 48.0 | 26.551  |
| 48.5 | 23.546  |
| 49.0 | 20.867  |
| 49.5 | 18.472  |
| 50.0 | 16.320  |
| 50.5 | 14.412  |
| 51.0 | 12.747  |
| 51.5 | 11.327  |
| 52.0 | 10.068  |
| 52.5 | 8.972   |
| 53.0 | 8.038   |
| 53.5 | 7.226   |
| 54.0 | 6.536   |
| 54.5 | 5.927   |

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**CANDELA TABULATION - (Cont.)**

|      |       |
|------|-------|
| 55.0 | 5.399 |
| 55.5 | 4.993 |
| 56.0 | 4.628 |
| 56.5 | 4.344 |
| 57.0 | 4.100 |
| 57.5 | 3.857 |
| 58.0 | 3.613 |
| 58.5 | 3.370 |
| 59.0 | 3.167 |
| 59.5 | 2.923 |
| 60.0 | 2.761 |
| 60.5 | 2.558 |
| 61.0 | 2.395 |
| 61.5 | 2.233 |
| 62.0 | 2.070 |
| 62.5 | 1.949 |
| 63.0 | 1.827 |
| 63.5 | 1.705 |
| 64.0 | 1.583 |
| 64.5 | 1.502 |
| 65.0 | 1.380 |
| 65.5 | 1.299 |
| 66.0 | 1.218 |
| 66.5 | 1.137 |
| 67.0 | 1.056 |
| 67.5 | 1.015 |
| 68.0 | 0.934 |
| 68.5 | 0.893 |
| 69.0 | 0.812 |
| 69.5 | 0.771 |
| 70.0 | 0.731 |
| 70.5 | 0.690 |
| 71.0 | 0.650 |
| 71.5 | 0.609 |
| 72.0 | 0.568 |
| 72.5 | 0.528 |
| 73.0 | 0.487 |
| 73.5 | 0.487 |
| 74.0 | 0.447 |
| 74.5 | 0.406 |
| 75.0 | 0.365 |
| 75.5 | 0.365 |
| 76.0 | 0.325 |
| 76.5 | 0.325 |
| 77.0 | 0.284 |
| 77.5 | 0.284 |
| 78.0 | 0.244 |
| 78.5 | 0.244 |
| 79.0 | 0.244 |
| 79.5 | 0.203 |
| 80.0 | 0.203 |
| 80.5 | 0.162 |
| 81.0 | 0.162 |
| 81.5 | 0.162 |
| 82.0 | 0.162 |
| 82.5 | 0.122 |

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CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 0.122 |
| 83.5  | 0.122 |
| 84.0  | 0.081 |
| 84.5  | 0.081 |
| 85.0  | 0.081 |
| 85.5  | 0.081 |
| 86.0  | 0.081 |
| 86.5  | 0.041 |
| 87.0  | 0.041 |
| 87.5  | 0.041 |
| 88.0  | 0.041 |
| 88.5  | 0.041 |
| 89.0  | 0.041 |
| 89.5  | 0.041 |
| 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 |

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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 |

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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 |

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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 |



**IES INDOOR REPORT**  
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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 197.49 | N.A.  | 35.00  |
| 0-30    | 383.63 | N.A.  | 68.00  |
| 0-40    | 513.54 | N.A.  | 91.00  |
| 0-60    | 562.48 | N.A.  | 99.60  |
| 0-80    | 564.39 | N.A.  | 100.00 |
| 0-90    | 564.49 | N.A.  | 100.00 |
| 10-90   | 511.69 | N.A.  | 90.60  |
| 20-40   | 316.06 | N.A.  | 56.00  |
| 20-50   | 359.04 | N.A.  | 63.60  |
| 40-70   | 50.42  | N.A.  | 8.90   |
| 60-80   | 1.91   | N.A.  | 0.30   |
| 70-80   | 0.43   | 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   | 564.49 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 52.80  |
| 10-20   | 144.69 |
| 20-30   | 186.14 |
| 30-40   | 129.91 |
| 40-50   | 42.98  |
| 50-60   | 5.96   |
| 60-70   | 1.48   |
| 70-80   | 0.43   |
| 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   |

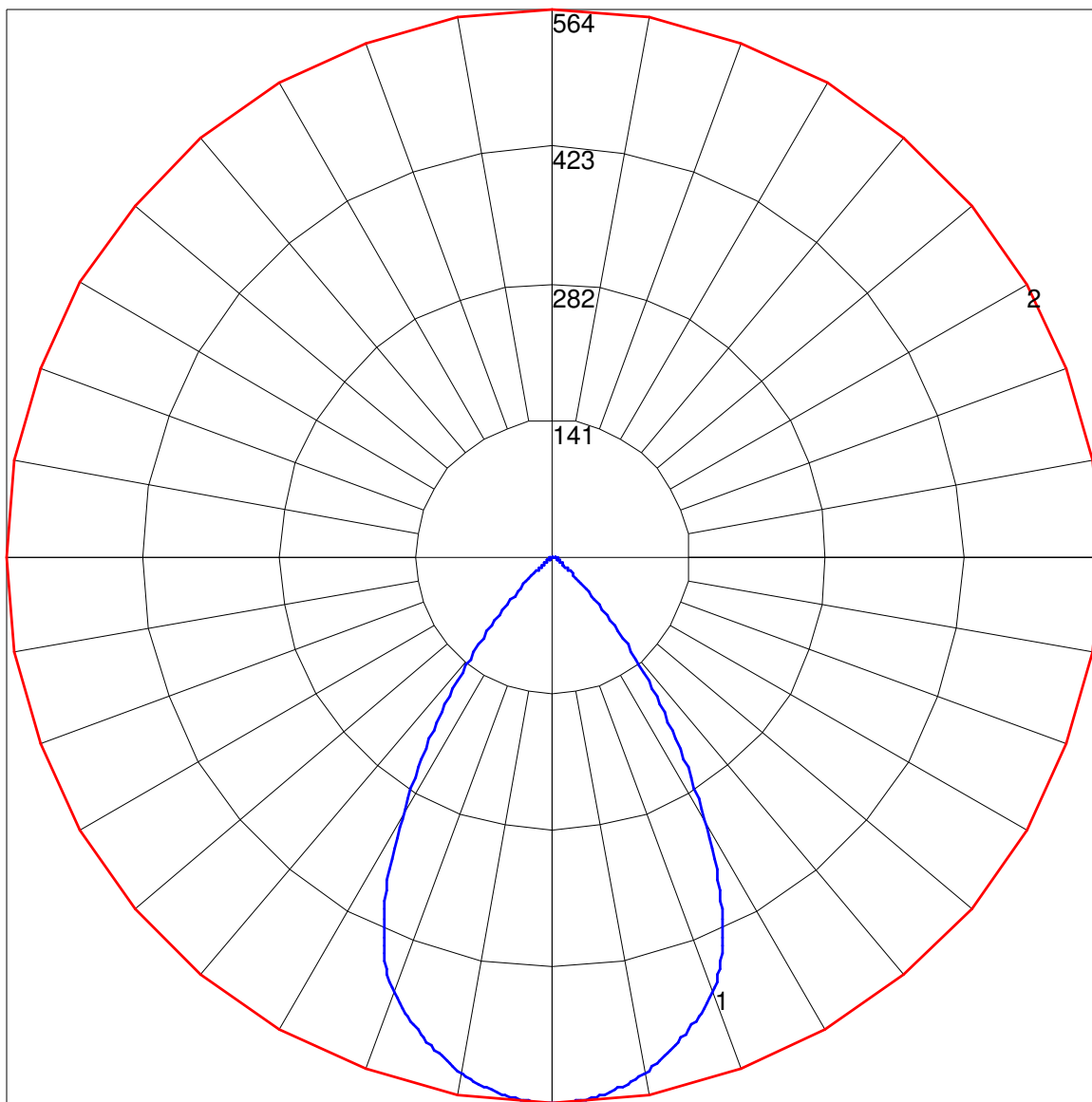
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 109 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2  | 108 | 103 | 99  | 95  | 106 | 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  | 70  | 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  | 60  | 54  | 51  | 59  | 54  | 50  | 58  | 54  | 50  | 49  |

POLAR GRAPH



Maximum Candela = 564.3 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.)