



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L15-935-XXX-DIM-UNV-OW-CS-XX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] 13131414.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUEDATE] 01/25/2021  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836  
 [LUMCAT] 4CR-xx-L15-935-xxx-DIM-UNV-OW-CS-xx  
 [LUMINAIRE] Aluminum housing and reflector, no enclosure  
 [LAMP] One white LED  
 [SEARCH\_SOURCETYPE] LED  
 [SEARCH\_APPLICATION] Indoor, Downlight  
 [SEARCH\_MOUNTING] Pendant, Surface, Suspended, Wall

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 1288               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 73                 |
| Total Luminaire Watts           | 17.7               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.16               |
| Spacing Criterion (90-270)      | 1.16               |
| Spacing Criterion (Diagonal)    | 1.04               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.21 ft (Diameter) |
| Luminous Width (90-270)         | 0.21 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                  | 34951            | 34951             | 34951             |
| 55                  | 9948             | 9948              | 9948              |
| 65                  | 4513             | 4513              | 4513              |
| 75                  | 1398             | 1398              | 1398              |
| 85                  | 378              | 378               | 378               |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 1044.844 |
| 0.5  | 1044.844 |
| 1.0  | 1044.844 |
| 1.5  | 1045.363 |
| 2.0  | 1045.883 |
| 2.5  | 1046.402 |
| 3.0  | 1046.922 |
| 3.5  | 1048.481 |
| 4.0  | 1050.559 |
| 4.5  | 1053.157 |
| 5.0  | 1056.274 |
| 5.5  | 1059.911 |
| 6.0  | 1063.028 |
| 6.5  | 1067.185 |
| 7.0  | 1071.342 |
| 7.5  | 1075.498 |
| 8.0  | 1080.174 |
| 8.5  | 1083.811 |
| 9.0  | 1086.928 |
| 9.5  | 1089.007 |
| 10.0 | 1091.085 |
| 10.5 | 1092.644 |
| 11.0 | 1093.683 |
| 11.5 | 1094.202 |
| 12.0 | 1093.683 |
| 12.5 | 1093.163 |
| 13.0 | 1091.605 |
| 13.5 | 1090.046 |
| 14.0 | 1087.968 |
| 14.5 | 1086.409 |
| 15.0 | 1084.331 |
| 15.5 | 1082.252 |
| 16.0 | 1079.655 |
| 16.5 | 1078.096 |
| 17.0 | 1076.018 |
| 17.5 | 1074.459 |
| 18.0 | 1073.420 |
| 18.5 | 1071.861 |
| 19.0 | 1069.263 |
| 19.5 | 1064.587 |
| 20.0 | 1059.911 |
| 20.5 | 1053.676 |
| 21.0 | 1046.402 |
| 21.5 | 1038.609 |
| 22.0 | 1030.816 |
| 22.5 | 1021.463 |
| 23.0 | 1011.592 |
| 23.5 | 1000.681 |
| 24.0 | 989.770  |
| 24.5 | 978.340  |
| 25.0 | 965.870  |
| 25.5 | 952.361  |
| 26.0 | 937.814  |
| 26.5 | 921.707  |

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CANDELA TABULATION - (Cont.)

|      |         |
|------|---------|
| 27.0 | 904.561 |
| 27.5 | 884.818 |
| 28.0 | 866.114 |
| 28.5 | 846.370 |
| 29.0 | 827.146 |
| 29.5 | 807.922 |
| 30.0 | 787.659 |
| 30.5 | 766.877 |
| 31.0 | 745.575 |
| 31.5 | 723.753 |
| 32.0 | 702.970 |
| 32.5 | 681.149 |
| 33.0 | 658.807 |
| 33.5 | 636.466 |
| 34.0 | 613.086 |
| 34.5 | 589.705 |
| 35.0 | 565.805 |
| 35.5 | 540.866 |
| 36.0 | 515.044 |
| 36.5 | 487.975 |
| 37.0 | 459.035 |
| 37.5 | 428.329 |
| 38.0 | 396.583 |
| 38.5 | 364.215 |
| 39.0 | 332.002 |
| 39.5 | 300.776 |
| 40.0 | 271.057 |
| 40.5 | 243.104 |
| 41.0 | 217.022 |
| 41.5 | 192.654 |
| 42.0 | 169.898 |
| 42.5 | 149.011 |
| 43.0 | 130.151 |
| 43.5 | 113.525 |
| 44.0 | 99.497  |
| 44.5 | 87.806  |
| 45.0 | 78.091  |
| 45.5 | 70.037  |
| 46.0 | 63.335  |
| 46.5 | 57.620  |
| 47.0 | 52.788  |
| 47.5 | 48.631  |
| 48.0 | 44.994  |
| 48.5 | 41.773  |
| 49.0 | 38.915  |
| 49.5 | 36.369  |
| 50.0 | 33.980  |
| 50.5 | 31.849  |
| 51.0 | 29.875  |
| 51.5 | 28.056  |
| 52.0 | 26.394  |
| 52.5 | 24.783  |
| 53.0 | 23.276  |
| 53.5 | 21.822  |
| 54.0 | 20.471  |
| 54.5 | 19.172  |

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CANDELA TABULATION - (Cont.)

|      |        |
|------|--------|
| 55.0 | 18.029 |
| 55.5 | 16.990 |
| 56.0 | 16.055 |
| 56.5 | 15.171 |
| 57.0 | 14.392 |
| 57.5 | 13.665 |
| 58.0 | 12.989 |
| 58.5 | 12.366 |
| 59.0 | 11.794 |
| 59.5 | 11.171 |
| 60.0 | 10.651 |
| 60.5 | 10.080 |
| 61.0 | 9.612  |
| 61.5 | 9.092  |
| 62.0 | 8.625  |
| 62.5 | 8.157  |
| 63.0 | 7.742  |
| 63.5 | 7.274  |
| 64.0 | 6.858  |
| 64.5 | 6.443  |
| 65.0 | 6.027  |
| 65.5 | 5.663  |
| 66.0 | 5.300  |
| 66.5 | 4.884  |
| 67.0 | 4.572  |
| 67.5 | 4.208  |
| 68.0 | 3.897  |
| 68.5 | 3.637  |
| 69.0 | 3.325  |
| 69.5 | 3.065  |
| 70.0 | 2.806  |
| 70.5 | 2.598  |
| 71.0 | 2.390  |
| 71.5 | 2.182  |
| 72.0 | 1.974  |
| 72.5 | 1.818  |
| 73.0 | 1.663  |
| 73.5 | 1.507  |
| 74.0 | 1.403  |
| 74.5 | 1.247  |
| 75.0 | 1.143  |
| 75.5 | 1.039  |
| 76.0 | 0.935  |
| 76.5 | 0.883  |
| 77.0 | 0.779  |
| 77.5 | 0.675  |
| 78.0 | 0.623  |
| 78.5 | 0.572  |
| 79.0 | 0.520  |
| 79.5 | 0.468  |
| 80.0 | 0.416  |
| 80.5 | 0.364  |
| 81.0 | 0.312  |
| 81.5 | 0.312  |
| 82.0 | 0.260  |
| 82.5 | 0.208  |

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CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 0.208 |
| 83.5  | 0.156 |
| 84.0  | 0.156 |
| 84.5  | 0.156 |
| 85.0  | 0.104 |
| 85.5  | 0.104 |
| 86.0  | 0.104 |
| 86.5  | 0.052 |
| 87.0  | 0.052 |
| 87.5  | 0.052 |
| 88.0  | 0.052 |
| 88.5  | 0.052 |
| 89.0  | 0.052 |
| 89.5  | 0.052 |
| 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 |

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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****PHOTOMETRIC FILENAME : 4CR-XX-L15-935-XXX-DIM-UNV-OW-CS-XX\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 408.54  | N.A.  | 31.70  |
| 0-30    | 844.57  | N.A.  | 65.60  |
| 0-40    | 1184.61 | N.A.  | 92.00  |
| 0-60    | 1280.28 | N.A.  | 99.40  |
| 0-80    | 1287.81 | N.A.  | 100.00 |
| 0-90    | 1287.97 | N.A.  | 100.00 |
| 10-90   | 1185.82 | N.A.  | 92.10  |
| 20-40   | 776.06  | N.A.  | 60.30  |
| 20-50   | 854.42  | N.A.  | 66.30  |
| 40-70   | 101.83  | N.A.  | 7.90   |
| 60-80   | 7.53    | N.A.  | 0.60   |
| 70-80   | 1.37    | N.A.  | 0.10   |
| 80-90   | 0.16    | 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   | 1287.97 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 102.15 |
| 10-20   | 306.39 |
| 20-30   | 436.02 |
| 30-40   | 340.04 |
| 40-50   | 78.36  |
| 50-60   | 17.32  |
| 60-70   | 6.16   |
| 70-80   | 1.37   |
| 80-90   | 0.16   |
| 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  | 50  | 30  | 10  | 0   |
| 0  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 |
| 1  | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 95  | 93  | 93  | 93  | 93  |
| 2  | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 92  | 90  | 88  | 86  | 86  | 86  | 86  |
| 3  | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 88  | 85  | 82  | 86  | 83  | 81  | 79  | 79  | 79  | 79  |
| 4  | 96  | 88  | 83  | 78  | 94  | 87  | 82  | 78  | 85  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  | 73  | 73  | 73  |
| 5  | 91  | 82  | 76  | 72  | 89  | 81  | 76  | 71  | 79  | 74  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 68  | 68  | 68  | 68  |
| 6  | 86  | 77  | 71  | 66  | 85  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 63  | 63  | 63  | 63  |
| 7  | 81  | 72  | 65  | 61  | 80  | 71  | 65  | 61  | 70  | 64  | 61  | 69  | 64  | 60  | 67  | 63  | 60  | 58  | 58  | 58  | 58  |
| 8  | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 57  | 66  | 60  | 56  | 64  | 60  | 56  | 63  | 59  | 56  | 54  | 54  | 54  | 54  |
| 9  | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 51  | 51  | 51  | 51  |
| 10 | 70  | 59  | 53  | 49  | 68  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 57  | 52  | 49  | 47  | 47  | 47  | 47  |

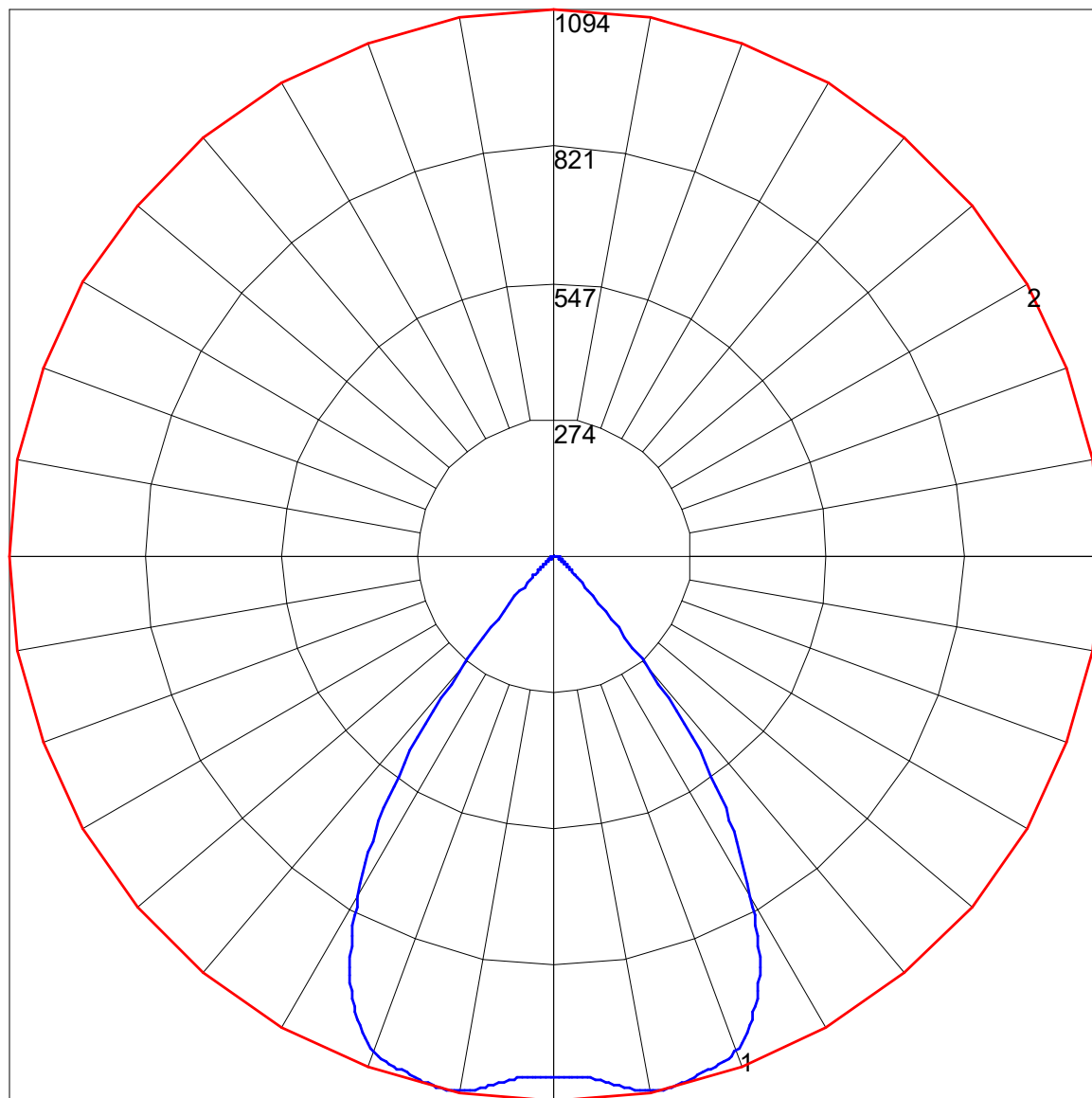
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : 4CR-XX-L15-935-XXX-DIM-UNV-OW-CS-XX\_.IES**

**UGR TABLE - CORRECTED**

| Reflectances   |      |                      |      |      |      |      |                    |      |      |      |      |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| Ceiling Cavity | 70   | 70                   | 50   | 50   | 30   | 70   | 70                 | 50   | 50   | 30   |      |
| Walls          | 50   | 30                   | 50   | 30   | 30   | 50   | 30                 | 50   | 30   | 30   |      |
| Floor Cavity   | 20   | 20                   | 20   | 20   | 20   | 20   | 20                 | 20   | 20   | 20   |      |
| Room Size      |      | UGR Viewed Crosswise |      |      |      |      | UGR Viewed Endwise |      |      |      |      |
| X=2H           | Y=2H | 9.7                  | 10.7 | 10.1 | 11.1 | 11.4 | 9.7                | 10.7 | 10.1 | 11.1 | 11.4 |
|                | 3H   | 10.0                 | 10.9 | 10.4 | 11.2 | 11.6 | 10.0               | 10.9 | 10.4 | 11.2 | 11.6 |
|                | 4H   | 10.0                 | 10.8 | 10.4 | 11.1 | 11.5 | 10.0               | 10.8 | 10.4 | 11.1 | 11.5 |
|                | 6H   | 9.9                  | 10.6 | 10.3 | 11.0 | 11.4 | 9.9                | 10.6 | 10.3 | 11.0 | 11.4 |
|                | 8H   | 9.9                  | 10.5 | 10.3 | 10.9 | 11.3 | 9.9                | 10.5 | 10.3 | 10.9 | 11.3 |
|                | 12H  | 9.8                  | 10.5 | 10.2 | 10.8 | 11.3 | 9.8                | 10.5 | 10.2 | 10.8 | 11.3 |
| 4H             | 2H   | 9.8                  | 10.6 | 10.2 | 11.0 | 11.3 | 9.8                | 10.6 | 10.2 | 11.0 | 11.3 |
|                | 3H   | 10.1                 | 10.8 | 10.5 | 11.2 | 11.6 | 10.1               | 10.8 | 10.5 | 11.2 | 11.6 |
|                | 4H   | 10.1                 | 10.7 | 10.5 | 11.1 | 11.5 | 10.1               | 10.7 | 10.5 | 11.1 | 11.5 |
|                | 6H   | 10.0                 | 10.5 | 10.5 | 10.9 | 11.4 | 10.0               | 10.5 | 10.5 | 10.9 | 11.4 |
|                | 8H   | 9.9                  | 10.4 | 10.4 | 10.8 | 11.3 | 9.9                | 10.4 | 10.4 | 10.8 | 11.3 |
|                | 12H  | 9.9                  | 10.3 | 10.4 | 10.8 | 11.2 | 9.9                | 10.3 | 10.4 | 10.8 | 11.2 |
| 8H             | 4H   | 9.9                  | 10.4 | 10.4 | 10.9 | 11.3 | 9.9                | 10.4 | 10.4 | 10.9 | 11.3 |
|                | 6H   | 9.8                  | 10.2 | 10.4 | 10.7 | 11.2 | 9.8                | 10.2 | 10.4 | 10.7 | 11.2 |
|                | 8H   | 9.8                  | 10.1 | 10.3 | 10.6 | 11.1 | 9.8                | 10.1 | 10.3 | 10.6 | 11.1 |
|                | 12H  | 9.7                  | 10.0 | 10.2 | 10.5 | 11.1 | 9.7                | 10.0 | 10.2 | 10.5 | 11.1 |
| 12H            | 4H   | 9.9                  | 10.3 | 10.4 | 10.8 | 11.2 | 9.9                | 10.3 | 10.4 | 10.8 | 11.2 |
|                | 6H   | 9.8                  | 10.1 | 10.3 | 10.6 | 11.1 | 9.8                | 10.1 | 10.3 | 10.6 | 11.1 |
|                | 8H   | 9.7                  | 10.0 | 10.2 | 10.5 | 11.1 | 9.7                | 10.0 | 10.2 | 10.5 | 11.1 |

Maximum UGR = 11.6

POLAR GRAPH



Maximum Candela = 1094.202 Located At Horizontal Angle = 0, Vertical Angle = 11.5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (11.5) (Through Max. Cd.)