



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] GEN FROM 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-L9-930-xxx-DIM-UNV-OW-CS-TD-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                | 492                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 46                 |
| Total Luminaire Watts           | 10.7               |
| 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                  | 13343            | 13343             | 13343             |
| 55                  | 3798             | 3798              | 3798              |
| 65                  | 1723             | 1723              | 1723              |
| 75                  | 533              | 533               | 533               |
| 85                  | 145              | 145               | 145               |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES

CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 398.890  |
| 0.5  | 398.890  |
| 1.0  | 398.890  |
| 1.5  | 399.088  |
| 2.0  | 399.287  |
| 2.5  | 399.485  |
| 3.0  | 399.684  |
| 3.5  | 400.279  |
| 4.0  | 401.072  |
| 4.5  | 402.064  |
| 5.0  | 403.254  |
| 5.5  | 404.642  |
| 6.0  | 405.832  |
| 6.5  | 407.419  |
| 7.0  | 409.006  |
| 7.5  | 410.593  |
| 8.0  | 412.378  |
| 8.5  | 413.767  |
| 9.0  | 414.957  |
| 9.5  | 415.750  |
| 10.0 | 416.544  |
| 10.5 | 417.139  |
| 11.0 | 417.535  |
| 11.5 | 417.734  |
| 12.0 | 417.535  |
| 12.5 | 417.337  |
| 13.0 | 416.742  |
| 13.5 | 416.147  |
| 14.0 | 415.353  |
| 14.5 | 414.758  |
| 15.0 | 413.965  |
| 15.5 | 413.172  |
| 16.0 | 412.180  |
| 16.5 | 411.585  |
| 17.0 | 410.791  |
| 17.5 | 410.196  |
| 18.0 | 409.800  |
| 18.5 | 409.204  |
| 19.0 | 408.213  |
| 19.5 | 406.428  |
| 20.0 | 404.642  |
| 20.5 | 402.262  |
| 21.0 | 399.485  |
| 21.5 | 396.510  |
| 22.0 | 393.535  |
| 22.5 | 389.964  |
| 23.0 | 386.195  |
| 23.5 | 382.030  |
| 24.0 | 377.865  |
| 24.5 | 373.501  |
| 25.0 | 368.740  |
| 25.5 | 363.583  |
| 26.0 | 358.029  |
| 26.5 | 351.880  |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES****CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 27.0 | 345.334 |
| 27.5 | 337.797 |
| 28.0 | 330.656 |
| 28.5 | 323.119 |
| 29.0 | 315.780 |
| 29.5 | 308.441 |
| 30.0 | 300.705 |
| 30.5 | 292.771 |
| 31.0 | 284.638 |
| 31.5 | 276.307 |
| 32.0 | 268.373 |
| 32.5 | 260.042 |
| 33.0 | 251.513 |
| 33.5 | 242.984 |
| 34.0 | 234.058 |
| 34.5 | 225.132 |
| 35.0 | 216.008 |
| 35.5 | 206.487 |
| 36.0 | 196.628 |
| 36.5 | 186.294 |
| 37.0 | 175.246 |
| 37.5 | 163.523 |
| 38.0 | 151.404 |
| 38.5 | 139.046 |
| 39.0 | 126.748 |
| 39.5 | 114.827 |
| 40.0 | 103.481 |
| 40.5 | 92.810  |
| 41.0 | 82.853  |
| 41.5 | 73.550  |
| 42.0 | 64.862  |
| 42.5 | 56.888  |
| 43.0 | 49.688  |
| 43.5 | 43.340  |
| 44.0 | 37.985  |
| 44.5 | 33.522  |
| 45.0 | 29.813  |
| 45.5 | 26.738  |
| 46.0 | 24.179  |
| 46.5 | 21.997  |
| 47.0 | 20.153  |
| 47.5 | 18.566  |
| 48.0 | 17.177  |
| 48.5 | 15.948  |
| 49.0 | 14.857  |
| 49.5 | 13.885  |
| 50.0 | 12.972  |
| 50.5 | 12.159  |
| 51.0 | 11.405  |
| 51.5 | 10.711  |
| 52.0 | 10.076  |
| 52.5 | 9.461   |
| 53.0 | 8.886   |
| 53.5 | 8.331   |
| 54.0 | 7.815   |
| 54.5 | 7.319   |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES****CANDELA TABULATION - (Cont.)**

|      |       |
|------|-------|
| 55.0 | 6.883 |
| 55.5 | 6.486 |
| 56.0 | 6.129 |
| 56.5 | 5.792 |
| 57.0 | 5.494 |
| 57.5 | 5.217 |
| 58.0 | 4.959 |
| 58.5 | 4.721 |
| 59.0 | 4.503 |
| 59.5 | 4.265 |
| 60.0 | 4.066 |
| 60.5 | 3.848 |
| 61.0 | 3.670 |
| 61.5 | 3.471 |
| 62.0 | 3.293 |
| 62.5 | 3.114 |
| 63.0 | 2.955 |
| 63.5 | 2.777 |
| 64.0 | 2.618 |
| 64.5 | 2.460 |
| 65.0 | 2.301 |
| 65.5 | 2.162 |
| 66.0 | 2.023 |
| 66.5 | 1.865 |
| 67.0 | 1.746 |
| 67.5 | 1.607 |
| 68.0 | 1.488 |
| 68.5 | 1.388 |
| 69.0 | 1.269 |
| 69.5 | 1.170 |
| 70.0 | 1.071 |
| 70.5 | 0.992 |
| 71.0 | 0.912 |
| 71.5 | 0.833 |
| 72.0 | 0.754 |
| 72.5 | 0.694 |
| 73.0 | 0.635 |
| 73.5 | 0.575 |
| 74.0 | 0.536 |
| 74.5 | 0.476 |
| 75.0 | 0.436 |
| 75.5 | 0.397 |
| 76.0 | 0.357 |
| 76.5 | 0.337 |
| 77.0 | 0.298 |
| 77.5 | 0.258 |
| 78.0 | 0.238 |
| 78.5 | 0.218 |
| 79.0 | 0.198 |
| 79.5 | 0.179 |
| 80.0 | 0.159 |
| 80.5 | 0.139 |
| 81.0 | 0.119 |
| 81.5 | 0.119 |
| 82.0 | 0.099 |
| 82.5 | 0.079 |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES****CANDELA TABULATION - (Cont.)**

|       |       |
|-------|-------|
| 83.0  | 0.079 |
| 83.5  | 0.060 |
| 84.0  | 0.060 |
| 84.5  | 0.060 |
| 85.0  | 0.040 |
| 85.5  | 0.040 |
| 86.0  | 0.040 |
| 86.5  | 0.020 |
| 87.0  | 0.020 |
| 87.5  | 0.020 |
| 88.0  | 0.020 |
| 88.5  | 0.020 |
| 89.0  | 0.020 |
| 89.5  | 0.020 |
| 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****PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES****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****PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES****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****PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES****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-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 155.97 | N.A.  | 31.70  |
| 0-30    | 322.43 | N.A.  | 65.60  |
| 0-40    | 452.25 | N.A.  | 92.00  |
| 0-60    | 488.77 | N.A.  | 99.40  |
| 0-80    | 491.65 | N.A.  | 100.00 |
| 0-90    | 491.71 | N.A.  | 100.00 |
| 10-90   | 452.71 | N.A.  | 92.10  |
| 20-40   | 296.28 | N.A.  | 60.30  |
| 20-50   | 326.19 | N.A.  | 66.30  |
| 40-70   | 38.88  | N.A.  | 7.90   |
| 60-80   | 2.87   | N.A.  | 0.60   |
| 70-80   | 0.52   | N.A.  | 0.10   |
| 80-90   | 0.06   | 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   | 491.71 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 39.00  |
| 10-20   | 116.97 |
| 20-30   | 166.46 |
| 30-40   | 129.82 |
| 40-50   | 29.92  |
| 50-60   | 6.61   |
| 60-70   | 2.35   |
| 70-80   | 0.52   |
| 80-90   | 0.06   |
| 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   |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-XX\_.IES

## 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 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2  | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 97  | 94  | 91  | 94  | 92  | 89  | 92  | 89  | 88  | 86  |
| 3  | 102 | 95  | 90  | 86  | 100 | 94  | 89  | 85  | 91  | 87  | 84  | 88  | 85  | 82  | 86  | 83  | 81  | 79  |
| 4  | 96  | 88  | 82  | 78  | 94  | 87  | 82  | 78  | 85  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 75  | 73  |
| 5  | 91  | 82  | 76  | 72  | 89  | 81  | 76  | 71  | 79  | 74  | 71  | 78  | 73  | 70  | 76  | 72  | 69  | 68  |
| 6  | 86  | 77  | 70  | 66  | 85  | 76  | 70  | 66  | 74  | 69  | 65  | 73  | 68  | 65  | 72  | 68  | 64  | 63  |
| 7  | 81  | 72  | 65  | 61  | 80  | 71  | 65  | 61  | 70  | 64  | 61  | 69  | 64  | 60  | 67  | 63  | 60  | 58  |
| 8  | 77  | 67  | 61  | 57  | 76  | 67  | 61  | 57  | 65  | 60  | 56  | 64  | 60  | 56  | 63  | 59  | 56  | 54  |
| 9  | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 56  | 52  | 61  | 56  | 52  | 60  | 55  | 52  | 51  |
| 10 | 69  | 59  | 53  | 49  | 68  | 59  | 53  | 49  | 58  | 53  | 49  | 57  | 52  | 49  | 57  | 52  | 49  | 47  |

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-XX-L9-930-XXX-DIM-UNV-OW-CS-TD-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

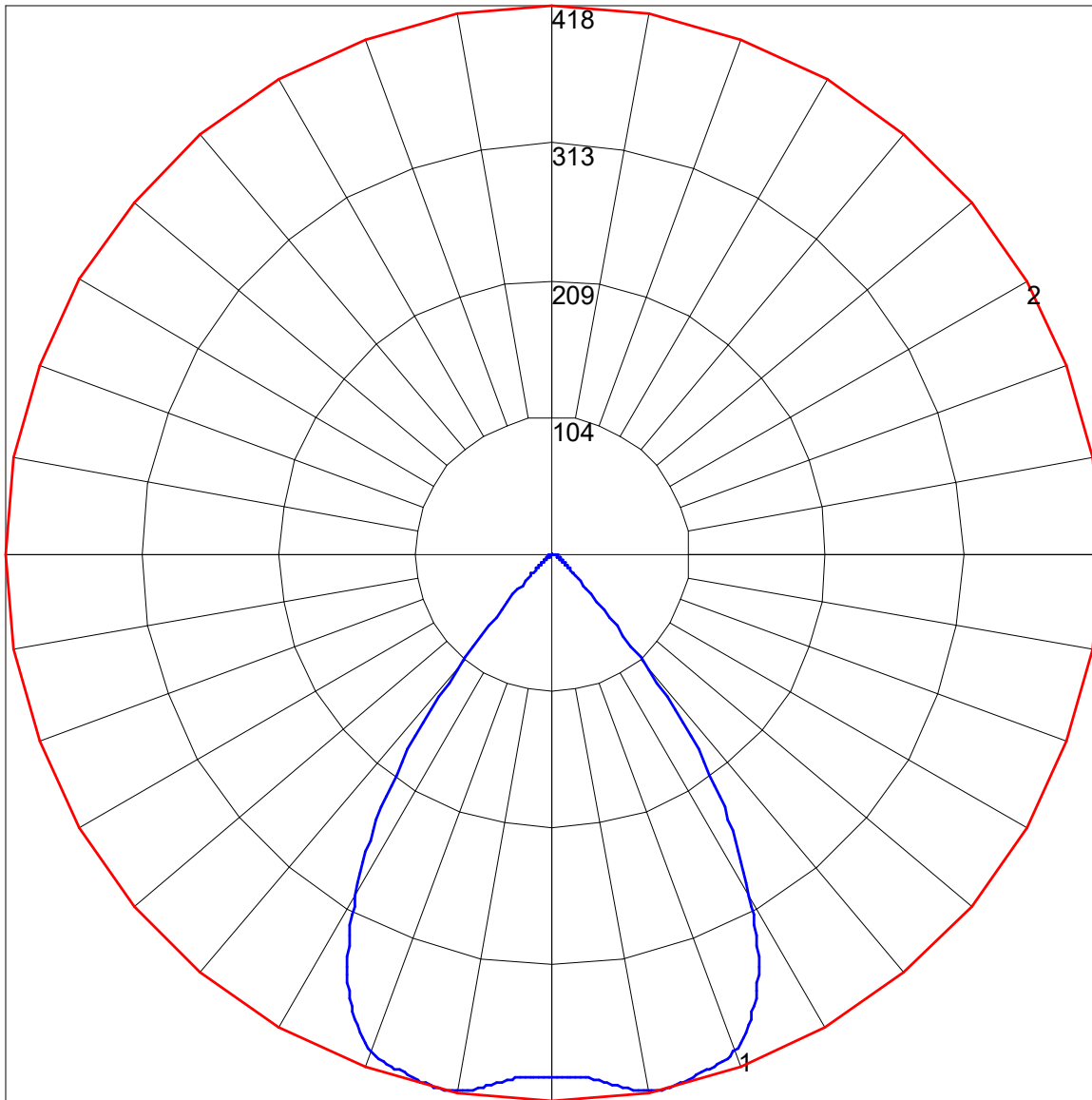
|      |      |     |     |     |     |     |     |     |     |     |     |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| X=2H | Y=2H | 6.3 | 7.3 | 6.7 | 7.7 | 8.0 | 6.3 | 7.3 | 6.7 | 7.7 | 8.0 |
|      | 3H   | 6.6 | 7.5 | 7.0 | 7.8 | 8.2 | 6.6 | 7.5 | 7.0 | 7.8 | 8.2 |
|      | 4H   | 6.6 | 7.4 | 7.0 | 7.7 | 8.1 | 6.6 | 7.4 | 7.0 | 7.7 | 8.1 |
|      | 6H   | 6.5 | 7.2 | 6.9 | 7.6 | 8.0 | 6.5 | 7.2 | 6.9 | 7.6 | 8.0 |
|      | 8H   | 6.5 | 7.1 | 6.9 | 7.5 | 7.9 | 6.5 | 7.1 | 6.9 | 7.5 | 7.9 |
|      | 12H  | 6.4 | 7.1 | 6.8 | 7.4 | 7.9 | 6.4 | 7.1 | 6.8 | 7.4 | 7.9 |

### UGR Viewed Endwise

|     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H  | 2H  | 6.4 | 7.2 | 6.8 | 7.6 | 7.9 | 6.4 | 7.2 | 6.8 | 7.6 | 7.9 |
|     | 3H  | 6.7 | 7.4 | 7.1 | 7.8 | 8.2 | 6.7 | 7.4 | 7.1 | 7.8 | 8.2 |
|     | 4H  | 6.7 | 7.3 | 7.1 | 7.7 | 8.1 | 6.7 | 7.3 | 7.1 | 7.7 | 8.1 |
|     | 6H  | 6.6 | 7.1 | 7.1 | 7.5 | 8.0 | 6.6 | 7.1 | 7.1 | 7.5 | 8.0 |
|     | 8H  | 6.5 | 7.0 | 7.0 | 7.4 | 7.9 | 6.5 | 7.0 | 7.0 | 7.4 | 7.9 |
|     | 12H | 6.5 | 6.9 | 7.0 | 7.4 | 7.8 | 6.5 | 6.9 | 7.0 | 7.4 | 7.8 |
| 8H  | 4H  | 6.5 | 7.0 | 7.0 | 7.5 | 7.9 | 6.5 | 7.0 | 7.0 | 7.5 | 7.9 |
|     | 6H  | 6.4 | 6.8 | 7.0 | 7.3 | 7.8 | 6.4 | 6.8 | 7.0 | 7.3 | 7.8 |
|     | 8H  | 6.4 | 6.7 | 6.9 | 7.2 | 7.7 | 6.4 | 6.7 | 6.9 | 7.2 | 7.7 |
|     | 12H | 6.3 | 6.6 | 6.8 | 7.1 | 7.7 | 6.3 | 6.6 | 6.8 | 7.1 | 7.7 |
| 12H | 4H  | 6.5 | 6.9 | 7.0 | 7.4 | 7.8 | 6.5 | 6.9 | 7.0 | 7.4 | 7.8 |
|     | 6H  | 6.4 | 6.7 | 6.9 | 7.2 | 7.7 | 6.4 | 6.7 | 6.9 | 7.2 | 7.7 |
|     | 8H  | 6.3 | 6.6 | 6.8 | 7.1 | 7.7 | 6.3 | 6.6 | 6.8 | 7.1 | 7.7 |

Maximum UGR = 8.2

POLAR GRAPH



Maximum Candela = 417.734 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.)