



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : V4DR-P17-835-POE-RM-OF-WH\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12316380.14

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 6 OCT 2021

[MANUFAC] WILLIAMS INDOOR

[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.

[LUMCAT] V4DR-P17-835-PoE x-RM-OF-WH

[LUMINAIRE] Black formed aluminum housing, white reflector, clear plas

[MORE] tic optic, clear glass patterned lens enclosure

[LAMP] One white LED

[\_SEARCH\_SOURCETYPE] LED

[\_SEARCH\_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[\_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2199               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 95                 |
| Total Luminaire Watts           | 23.2               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.52               |
| Spacing Criterion (90-270)      | 0.52               |
| Spacing Criterion (Diagonal)    | 0.52               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.38 ft (Diameter) |
| Luminous Width (90-270)         | 0.38 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                  | 12612            | 12612             | 12612             |
| 55                  | 8772             | 8772              | 8772              |
| 65                  | 6263             | 6263              | 6263              |
| 75                  | 4192             | 4192              | 4192              |
| 85                  | 3420             | 3420              | 3420              |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 6338.074 |
| 0.5  | 6333.176 |
| 1.0  | 6318.482 |
| 1.5  | 6295.216 |
| 2.0  | 6263.379 |
| 2.5  | 6222.970 |
| 3.0  | 6175.214 |
| 3.5  | 6118.886 |
| 4.0  | 6053.987 |
| 4.5  | 5984.190 |
| 5.0  | 5907.046 |
| 5.5  | 5821.330 |
| 6.0  | 5729.492 |
| 6.5  | 5631.531 |
| 7.0  | 5526.223 |
| 7.5  | 5413.567 |
| 8.0  | 5296.014 |
| 8.5  | 5171.114 |
| 9.0  | 5042.540 |
| 9.5  | 4909.069 |
| 10.0 | 4770.699 |
| 10.5 | 4628.655 |
| 11.0 | 4482.938 |
| 11.5 | 4334.772 |
| 12.0 | 4184.157 |
| 12.5 | 4034.767 |
| 13.0 | 3885.377 |
| 13.5 | 3734.762 |
| 14.0 | 3582.922 |
| 14.5 | 3431.083 |
| 15.0 | 3281.692 |
| 15.5 | 3133.526 |
| 16.0 | 2985.360 |
| 16.5 | 2840.868 |
| 17.0 | 2697.600 |
| 17.5 | 2556.781 |
| 18.0 | 2418.411 |
| 18.5 | 2283.715 |
| 19.0 | 2155.141 |
| 19.5 | 2029.016 |
| 20.0 | 1906.565 |
| 20.5 | 1790.237 |
| 21.0 | 1677.581 |
| 21.5 | 1569.824 |
| 22.0 | 1468.190 |
| 22.5 | 1371.453 |
| 23.0 | 1280.840 |
| 23.5 | 1194.144 |
| 24.0 | 1112.102 |
| 24.5 | 1034.835 |
| 25.0 | 962.589  |
| 25.5 | 895.363  |
| 26.0 | 832.668  |
| 26.5 | 773.892  |

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**CANDELA TABULATION - (Cont.)**

|      |         |
|------|---------|
| 27.0 | 719.278 |
| 27.5 | 668.706 |
| 28.0 | 621.685 |
| 28.5 | 577.847 |
| 29.0 | 537.683 |
| 29.5 | 500.213 |
| 30.0 | 465.559 |
| 30.5 | 433.722 |
| 31.0 | 404.334 |
| 31.5 | 377.150 |
| 32.0 | 352.047 |
| 32.5 | 329.026 |
| 33.0 | 307.720 |
| 33.5 | 287.883 |
| 34.0 | 269.760 |
| 34.5 | 252.862 |
| 35.0 | 237.310 |
| 35.5 | 222.984 |
| 36.0 | 209.636 |
| 36.5 | 197.391 |
| 37.0 | 186.003 |
| 37.5 | 175.717 |
| 38.0 | 166.166 |
| 38.5 | 157.595 |
| 39.0 | 149.635 |
| 39.5 | 142.411 |
| 40.0 | 135.921 |
| 40.5 | 129.798 |
| 41.0 | 124.288 |
| 41.5 | 119.145 |
| 42.0 | 114.369 |
| 42.5 | 109.961 |
| 43.0 | 105.798 |
| 43.5 | 101.879 |
| 44.0 | 98.206  |
| 44.5 | 94.777  |
| 45.0 | 91.593  |
| 45.5 | 88.655  |
| 46.0 | 85.838  |
| 46.5 | 83.144  |
| 47.0 | 80.573  |
| 47.5 | 78.246  |
| 48.0 | 76.042  |
| 48.5 | 73.838  |
| 49.0 | 71.756  |
| 49.5 | 69.797  |
| 50.0 | 67.960  |
| 50.5 | 66.124  |
| 51.0 | 64.409  |
| 51.5 | 62.573  |
| 52.0 | 60.981  |
| 52.5 | 59.266  |
| 53.0 | 57.797  |
| 53.5 | 56.205  |
| 54.0 | 54.613  |
| 54.5 | 53.144  |

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**CANDELA TABULATION - (Cont.)**

|             |        |
|-------------|--------|
| <b>55.0</b> | 51.674 |
| <b>55.5</b> | 50.205 |
| <b>56.0</b> | 48.858 |
| <b>56.5</b> | 47.511 |
| <b>57.0</b> | 46.164 |
| <b>57.5</b> | 44.817 |
| <b>58.0</b> | 43.470 |
| <b>58.5</b> | 42.246 |
| <b>59.0</b> | 41.021 |
| <b>59.5</b> | 39.797 |
| <b>60.0</b> | 38.572 |
| <b>60.5</b> | 37.348 |
| <b>61.0</b> | 36.123 |
| <b>61.5</b> | 35.021 |
| <b>62.0</b> | 33.797 |
| <b>62.5</b> | 32.694 |
| <b>63.0</b> | 31.470 |
| <b>63.5</b> | 30.368 |
| <b>64.0</b> | 29.266 |
| <b>64.5</b> | 28.164 |
| <b>65.0</b> | 27.184 |
| <b>65.5</b> | 26.082 |
| <b>66.0</b> | 25.102 |
| <b>66.5</b> | 24.000 |
| <b>67.0</b> | 23.021 |
| <b>67.5</b> | 22.041 |
| <b>68.0</b> | 21.062 |
| <b>68.5</b> | 20.204 |
| <b>69.0</b> | 19.225 |
| <b>69.5</b> | 18.368 |
| <b>70.0</b> | 17.511 |
| <b>70.5</b> | 16.776 |
| <b>71.0</b> | 16.041 |
| <b>71.5</b> | 15.306 |
| <b>72.0</b> | 14.572 |
| <b>72.5</b> | 13.959 |
| <b>73.0</b> | 13.347 |
| <b>73.5</b> | 12.735 |
| <b>74.0</b> | 12.245 |
| <b>74.5</b> | 11.633 |
| <b>75.0</b> | 11.143 |
| <b>75.5</b> | 10.653 |
| <b>76.0</b> | 10.163 |
| <b>76.5</b> | 9.796  |
| <b>77.0</b> | 9.306  |
| <b>77.5</b> | 8.816  |
| <b>78.0</b> | 8.449  |
| <b>78.5</b> | 7.959  |
| <b>79.0</b> | 7.592  |
| <b>79.5</b> | 7.225  |
| <b>80.0</b> | 6.735  |
| <b>80.5</b> | 6.367  |
| <b>81.0</b> | 6.000  |
| <b>81.5</b> | 5.633  |
| <b>82.0</b> | 5.143  |
| <b>82.5</b> | 4.776  |

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CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 4.408 |
| 83.5  | 4.041 |
| 84.0  | 3.674 |
| 84.5  | 3.306 |
| 85.0  | 3.061 |
| 85.5  | 2.694 |
| 86.0  | 2.327 |
| 86.5  | 1.959 |
| 87.0  | 1.714 |
| 87.5  | 1.469 |
| 88.0  | 1.225 |
| 88.5  | 0.980 |
| 89.0  | 0.857 |
| 89.5  | 0.612 |
| 90.0  | 0.490 |
| 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 |

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  
PHOTOMETRIC FILENAME : V4DR-P17-835-POE-RM-OF-WH\_.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**  
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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1418.25 | N.A.  | 64.50  |
| 0-30    | 1878.51 | N.A.  | 85.40  |
| 0-40    | 2036.45 | N.A.  | 92.60  |
| 0-60    | 2155.84 | N.A.  | 98.10  |
| 0-80    | 2195.04 | N.A.  | 99.80  |
| 0-90    | 2198.51 | N.A.  | 100.00 |
| 10-90   | 1671.24 | N.A.  | 76.00  |
| 20-40   | 618.20  | N.A.  | 28.10  |
| 20-50   | 691.02  | N.A.  | 31.40  |
| 40-70   | 146.48  | N.A.  | 6.70   |
| 60-80   | 39.20   | N.A.  | 1.80   |
| 70-80   | 12.11   | N.A.  | 0.60   |
| 80-90   | 3.47    | N.A.  | 0.20   |
| 90-110  | 0.01    | N.A.  | 0.00   |
| 90-120  | 0.01    | N.A.  | 0.00   |
| 90-130  | 0.01    | N.A.  | 0.00   |
| 90-150  | 0.01    | N.A.  | 0.00   |
| 90-180  | 0.01    | N.A.  | 0.00   |
| 110-180 | 0.00    | N.A.  | 0.00   |
| 0-180   | 2198.52 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 527.27 |
| 10-20   | 890.97 |
| 20-30   | 460.27 |
| 30-40   | 157.93 |
| 40-50   | 72.82  |
| 50-60   | 46.57  |
| 60-70   | 27.08  |
| 70-80   | 12.11  |
| 80-90   | 3.47   |
| 90-100  | 0.01   |
| 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  | 169 | 169 | 169 | 169 | 165 | 165 | 165 | 165 | 158 | 158 | 158 | 151 | 151 | 151 | 145 | 145 | 145 | 142 |
| 1  | 162 | 159 | 156 | 153 | 159 | 156 | 153 | 150 | 150 | 148 | 146 | 145 | 143 | 141 | 140 | 138 | 137 | 135 |
| 2  | 156 | 149 | 144 | 140 | 152 | 147 | 142 | 138 | 142 | 139 | 135 | 138 | 135 | 133 | 134 | 132 | 130 | 128 |
| 3  | 149 | 141 | 135 | 130 | 146 | 139 | 134 | 129 | 136 | 131 | 127 | 132 | 128 | 125 | 129 | 126 | 123 | 121 |
| 4  | 143 | 134 | 127 | 122 | 141 | 132 | 126 | 121 | 130 | 124 | 120 | 127 | 122 | 119 | 124 | 120 | 117 | 115 |
| 5  | 138 | 128 | 121 | 115 | 136 | 126 | 120 | 115 | 124 | 118 | 114 | 122 | 117 | 113 | 120 | 115 | 112 | 110 |
| 6  | 133 | 122 | 115 | 110 | 131 | 121 | 114 | 109 | 119 | 113 | 109 | 117 | 112 | 108 | 115 | 111 | 107 | 105 |
| 7  | 128 | 117 | 110 | 105 | 126 | 116 | 109 | 104 | 114 | 108 | 104 | 113 | 107 | 103 | 111 | 106 | 103 | 101 |
| 8  | 123 | 112 | 105 | 100 | 122 | 111 | 105 | 100 | 110 | 104 | 100 | 109 | 103 | 99  | 107 | 102 | 99  | 97  |
| 9  | 119 | 108 | 101 | 96  | 118 | 107 | 100 | 96  | 106 | 100 | 96  | 105 | 99  | 95  | 104 | 99  | 95  | 93  |
| 10 | 115 | 104 | 97  | 92  | 114 | 103 | 97  | 92  | 102 | 96  | 92  | 101 | 96  | 92  | 100 | 95  | 92  | 90  |

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**UGR TABLE - CORRECTED**

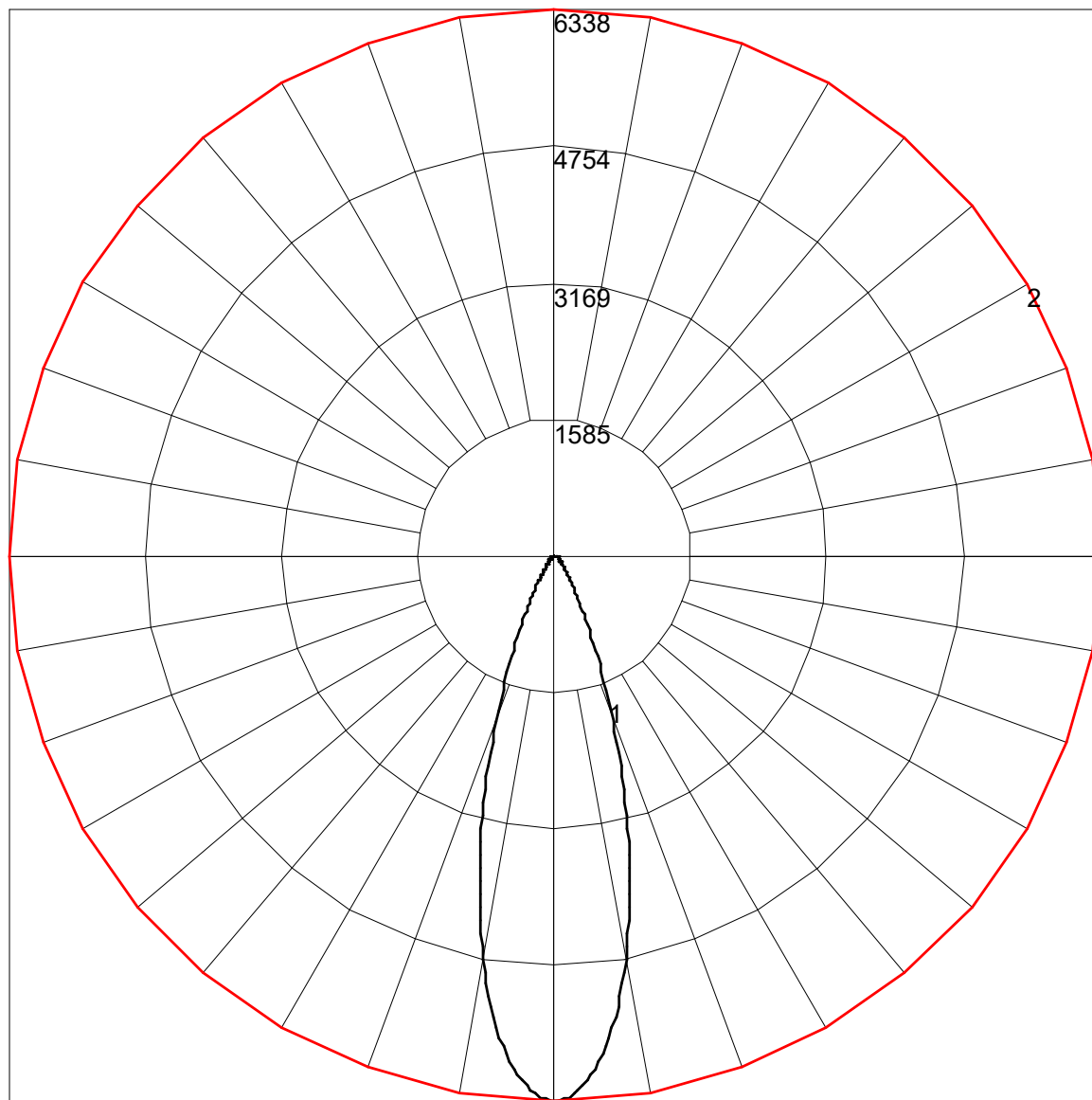
Reflectances

|                |    |    |    |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 10.9                 | 11.9 | 11.3 | 12.2 | 12.5 | 10.9               | 11.9 | 11.3 | 12.2 | 12.5 |
|           | 3H   | 11.9                 | 12.8 | 12.3 | 13.1 | 13.5 | 11.9               | 12.8 | 12.3 | 13.1 | 13.5 |
|           | 4H   | 12.2                 | 13.0 | 12.6 | 13.3 | 13.7 | 12.2               | 13.0 | 12.6 | 13.3 | 13.7 |
|           | 6H   | 12.4                 | 13.1 | 12.8 | 13.5 | 13.9 | 12.4               | 13.1 | 12.8 | 13.5 | 13.9 |
|           | 8H   | 12.4                 | 13.1 | 12.9 | 13.5 | 13.9 | 12.4               | 13.1 | 12.9 | 13.5 | 13.9 |
|           | 12H  | 12.5                 | 13.1 | 12.9 | 13.5 | 13.9 | 12.5               | 13.1 | 12.9 | 13.5 | 13.9 |
| 4H        | 2H   | 11.2                 | 12.0 | 11.6 | 12.4 | 12.7 | 11.2               | 12.0 | 11.6 | 12.4 | 12.7 |
|           | 3H   | 12.3                 | 13.0 | 12.7 | 13.4 | 13.8 | 12.3               | 13.0 | 12.7 | 13.4 | 13.8 |
|           | 4H   | 12.7                 | 13.3 | 13.1 | 13.7 | 14.1 | 12.7               | 13.3 | 13.1 | 13.7 | 14.1 |
|           | 6H   | 13.0                 | 13.5 | 13.5 | 14.0 | 14.4 | 13.0               | 13.5 | 13.5 | 14.0 | 14.4 |
|           | 8H   | 13.1                 | 13.6 | 13.6 | 14.0 | 14.5 | 13.1               | 13.6 | 13.6 | 14.0 | 14.5 |
|           | 12H  | 13.1                 | 13.5 | 13.6 | 14.0 | 14.5 | 13.1               | 13.5 | 13.6 | 14.0 | 14.5 |
| 8H        | 4H   | 12.8                 | 13.2 | 13.2 | 13.7 | 14.2 | 12.8               | 13.2 | 13.2 | 13.7 | 14.2 |
|           | 6H   | 13.2                 | 13.5 | 13.7 | 14.0 | 14.5 | 13.2               | 13.5 | 13.7 | 14.0 | 14.5 |
|           | 8H   | 13.3                 | 13.7 | 13.9 | 14.2 | 14.7 | 13.3               | 13.7 | 13.9 | 14.2 | 14.7 |
|           | 12H  | 13.5                 | 13.7 | 14.0 | 14.2 | 14.8 | 13.5               | 13.7 | 14.0 | 14.2 | 14.8 |
| 12H       | 4H   | 12.7                 | 13.1 | 13.2 | 13.6 | 14.1 | 12.7               | 13.1 | 13.2 | 13.6 | 14.1 |
|           | 6H   | 13.2                 | 13.5 | 13.7 | 14.0 | 14.5 | 13.2               | 13.5 | 13.7 | 14.0 | 14.5 |
|           | 8H   | 13.4                 | 13.6 | 13.9 | 14.1 | 14.7 | 13.4               | 13.6 | 13.9 | 14.1 | 14.7 |

Maximum UGR = 14.8

POLAR GRAPH



Maximum Candela = 6338.074 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)