

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4DR-TL-L40-835-DIM-UNV-FM-OF-CS-MWT\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]GEN FROM 12316380.22

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 01-10-2025

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 4DR-TL-L40-835-DIM-UNV-FM-OF-CS-MWT

[LUMINAIRE] Black formed aluminum housing, specular reflector, no lens

[MORE] 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                | 2899               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 76                 |
| Total Luminaire Watts           | 38                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.56               |
| Spacing Criterion (90-270)      | 0.56               |
| Spacing Criterion (Diagonal)    | 0.74               |
| 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                  | 7105             | 7105              | 7105              |
| 55                  | 2075             | 2075              | 2075              |
| 65                  | 743              | 743               | 743               |
| 75                  | 339              | 339               | 339               |
| 85                  | 251              | 251               | 251               |

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CANDELA TABULATION

|      | <u>0</u> |
|------|----------|
| 0.0  | 6079.500 |
| 0.5  | 6090.000 |
| 1.0  | 6094.500 |
| 1.5  | 6091.500 |
| 2.0  | 6081.000 |
| 2.5  | 6066.000 |
| 3.0  | 6033.750 |
| 3.5  | 5996.250 |
| 4.0  | 5943.750 |
| 4.5  | 5874.750 |
| 5.0  | 5787.000 |
| 5.5  | 5680.500 |
| 6.0  | 5571.750 |
| 6.5  | 5443.500 |
| 7.0  | 5307.750 |
| 7.5  | 5164.500 |
| 8.0  | 5016.750 |
| 8.5  | 4869.000 |
| 9.0  | 4722.000 |
| 9.5  | 4577.250 |
| 10.0 | 4437.750 |
| 10.5 | 4305.750 |
| 11.0 | 4179.750 |
| 11.5 | 4062.750 |
| 12.0 | 3955.500 |
| 12.5 | 3854.250 |
| 13.0 | 3762.000 |
| 13.5 | 3677.250 |
| 14.0 | 3600.000 |
| 14.5 | 3526.500 |
| 15.0 | 3458.250 |
| 15.5 | 3393.750 |
| 16.0 | 3336.000 |
| 16.5 | 3285.000 |
| 17.0 | 3237.750 |
| 17.5 | 3193.500 |
| 18.0 | 3151.500 |
| 18.5 | 3109.500 |
| 19.0 | 3070.500 |
| 19.5 | 3033.000 |
| 20.0 | 2998.500 |
| 20.5 | 2964.750 |
| 21.0 | 2930.250 |
| 21.5 | 2895.000 |
| 22.0 | 2856.000 |
| 22.5 | 2814.000 |
| 23.0 | 2768.250 |
| 23.5 | 2718.750 |
| 24.0 | 2664.000 |
| 24.5 | 2602.500 |
| 25.0 | 2535.000 |
| 25.5 | 2460.000 |
| 26.0 | 2376.000 |
| 26.5 | 2281.500 |

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**CANDELA TABULATION - (Cont.)**

|             |          |
|-------------|----------|
| <b>27.0</b> | 2178.000 |
| <b>27.5</b> | 2065.500 |
| <b>28.0</b> | 1945.500 |
| <b>28.5</b> | 1816.500 |
| <b>29.0</b> | 1677.000 |
| <b>29.5</b> | 1533.000 |
| <b>30.0</b> | 1385.250 |
| <b>30.5</b> | 1236.750 |
| <b>31.0</b> | 1090.500 |
| <b>31.5</b> | 950.250  |
| <b>32.0</b> | 815.250  |
| <b>32.5</b> | 690.825  |
| <b>33.0</b> | 577.200  |
| <b>33.5</b> | 473.775  |
| <b>34.0</b> | 385.350  |
| <b>34.5</b> | 311.175  |
| <b>35.0</b> | 251.700  |
| <b>35.5</b> | 205.875  |
| <b>36.0</b> | 171.075  |
| <b>36.5</b> | 145.800  |
| <b>37.0</b> | 129.375  |
| <b>37.5</b> | 118.950  |
| <b>38.0</b> | 111.525  |
| <b>38.5</b> | 104.925  |
| <b>39.0</b> | 99.000   |
| <b>39.5</b> | 93.600   |
| <b>40.0</b> | 88.500   |
| <b>40.5</b> | 83.775   |
| <b>41.0</b> | 79.350   |
| <b>41.5</b> | 75.150   |
| <b>42.0</b> | 71.325   |
| <b>42.5</b> | 67.575   |
| <b>43.0</b> | 64.050   |
| <b>43.5</b> | 60.675   |
| <b>44.0</b> | 57.450   |
| <b>44.5</b> | 54.450   |
| <b>45.0</b> | 51.600   |
| <b>45.5</b> | 48.825   |
| <b>46.0</b> | 46.125   |
| <b>46.5</b> | 43.425   |
| <b>47.0</b> | 40.800   |
| <b>47.5</b> | 38.175   |
| <b>48.0</b> | 35.625   |
| <b>48.5</b> | 33.300   |
| <b>49.0</b> | 31.050   |
| <b>49.5</b> | 28.800   |
| <b>50.0</b> | 26.625   |
| <b>50.5</b> | 24.450   |
| <b>51.0</b> | 22.650   |
| <b>51.5</b> | 20.925   |
| <b>52.0</b> | 19.350   |
| <b>52.5</b> | 17.925   |
| <b>53.0</b> | 16.575   |
| <b>53.5</b> | 15.375   |
| <b>54.0</b> | 14.175   |
| <b>54.5</b> | 13.200   |

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : 4DR-TL-L40-835-DIM-UNV-FM-OF-CS-MWT\_.IES

CANDELA TABULATION - (Cont.)

|      |        |
|------|--------|
| 55.0 | 12.225 |
| 55.5 | 11.325 |
| 56.0 | 10.650 |
| 56.5 | 9.825  |
| 57.0 | 9.150  |
| 57.5 | 8.550  |
| 58.0 | 8.025  |
| 58.5 | 7.500  |
| 59.0 | 6.975  |
| 59.5 | 6.600  |
| 60.0 | 6.150  |
| 60.5 | 5.775  |
| 61.0 | 5.400  |
| 61.5 | 5.025  |
| 62.0 | 4.800  |
| 62.5 | 4.425  |
| 63.0 | 4.200  |
| 63.5 | 3.900  |
| 64.0 | 3.675  |
| 64.5 | 3.450  |
| 65.0 | 3.225  |
| 65.5 | 3.075  |
| 66.0 | 2.850  |
| 66.5 | 2.775  |
| 67.0 | 2.550  |
| 67.5 | 2.400  |
| 68.0 | 2.250  |
| 68.5 | 2.100  |
| 69.0 | 1.950  |
| 69.5 | 1.875  |
| 70.0 | 1.800  |
| 70.5 | 1.650  |
| 71.0 | 1.500  |
| 71.5 | 1.500  |
| 72.0 | 1.350  |
| 72.5 | 1.275  |
| 73.0 | 1.125  |
| 73.5 | 1.050  |
| 74.0 | 0.975  |
| 74.5 | 0.975  |
| 75.0 | 0.900  |
| 75.5 | 0.825  |
| 76.0 | 0.825  |
| 76.5 | 0.750  |
| 77.0 | 0.675  |
| 77.5 | 0.675  |
| 78.0 | 0.600  |
| 78.5 | 0.525  |
| 79.0 | 0.525  |
| 79.5 | 0.525  |
| 80.0 | 0.450  |
| 80.5 | 0.375  |
| 81.0 | 0.450  |
| 81.5 | 0.375  |
| 82.0 | 0.375  |
| 82.5 | 0.375  |

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CANDELA TABULATION - (Cont.)

|       |       |
|-------|-------|
| 83.0  | 0.300 |
| 83.5  | 0.300 |
| 84.0  | 0.225 |
| 84.5  | 0.225 |
| 85.0  | 0.225 |
| 85.5  | 0.225 |
| 86.0  | 0.225 |
| 86.5  | 0.150 |
| 87.0  | 0.150 |
| 87.5  | 0.150 |
| 88.0  | 0.150 |
| 88.5  | 0.150 |
| 89.0  | 0.150 |
| 89.5  | 0.150 |
| 90.0  | 0.075 |
| 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 : 4DR-TL-L40-835-DIM-UNV-FM-OF-CS-MWT\_.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    | 1489.5  | N.A.  | 51.40  |
| 0-30    | 2584.34 | N.A.  | 89.10  |
| 0-40    | 2841.56 | N.A.  | 98.00  |
| 0-60    | 2894.3  | N.A.  | 99.80  |
| 0-80    | 2898.74 | N.A.  | 100.00 |
| 0-90    | 2899.01 | N.A.  | 100.00 |
| 10-90   | 2393.33 | N.A.  | 82.60  |
| 20-40   | 1352.06 | N.A.  | 46.60  |
| 20-50   | 1392.78 | N.A.  | 48.00  |
| 40-70   | 56.16   | N.A.  | 1.90   |
| 60-80   | 4.45    | N.A.  | 0.20   |
| 70-80   | 1.02    | N.A.  | 0.00   |
| 80-90   | 0.27    | 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   | 2899.02 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 505.68  |
| 10-20   | 983.82  |
| 20-30   | 1094.84 |
| 30-40   | 257.22  |
| 40-50   | 40.72   |
| 50-60   | 12.02   |
| 60-70   | 3.43    |
| 70-80   | 1.02    |
| 80-90   | 0.27    |
| 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  | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 98  | 98  | 97  | 95  |
| 2  | 109 | 105 | 102 | 99  | 107 | 103 | 100 | 98  | 100 | 98  | 95  | 97  | 95  | 93  | 95  | 93  | 91  | 90  |
| 3  | 105 | 99  | 95  | 91  | 103 | 98  | 94  | 91  | 95  | 92  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |
| 4  | 101 | 94  | 89  | 85  | 99  | 93  | 88  | 85  | 91  | 87  | 84  | 89  | 86  | 83  | 87  | 84  | 82  | 81  |
| 5  | 96  | 89  | 84  | 80  | 95  | 88  | 84  | 80  | 87  | 82  | 79  | 85  | 81  | 79  | 83  | 80  | 78  | 77  |
| 6  | 92  | 85  | 80  | 76  | 91  | 84  | 79  | 76  | 83  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 74  | 73  |
| 7  | 89  | 81  | 75  | 72  | 87  | 80  | 75  | 72  | 79  | 74  | 71  | 78  | 74  | 71  | 77  | 73  | 71  | 69  |
| 8  | 85  | 77  | 72  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 68  | 74  | 70  | 67  | 73  | 70  | 67  | 66  |
| 9  | 82  | 73  | 68  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 64  | 71  | 67  | 64  | 63  |
| 10 | 79  | 70  | 65  | 62  | 78  | 70  | 65  | 62  | 69  | 65  | 62  | 68  | 64  | 61  | 68  | 64  | 61  | 60  |

# IES INDOOR REPORT

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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

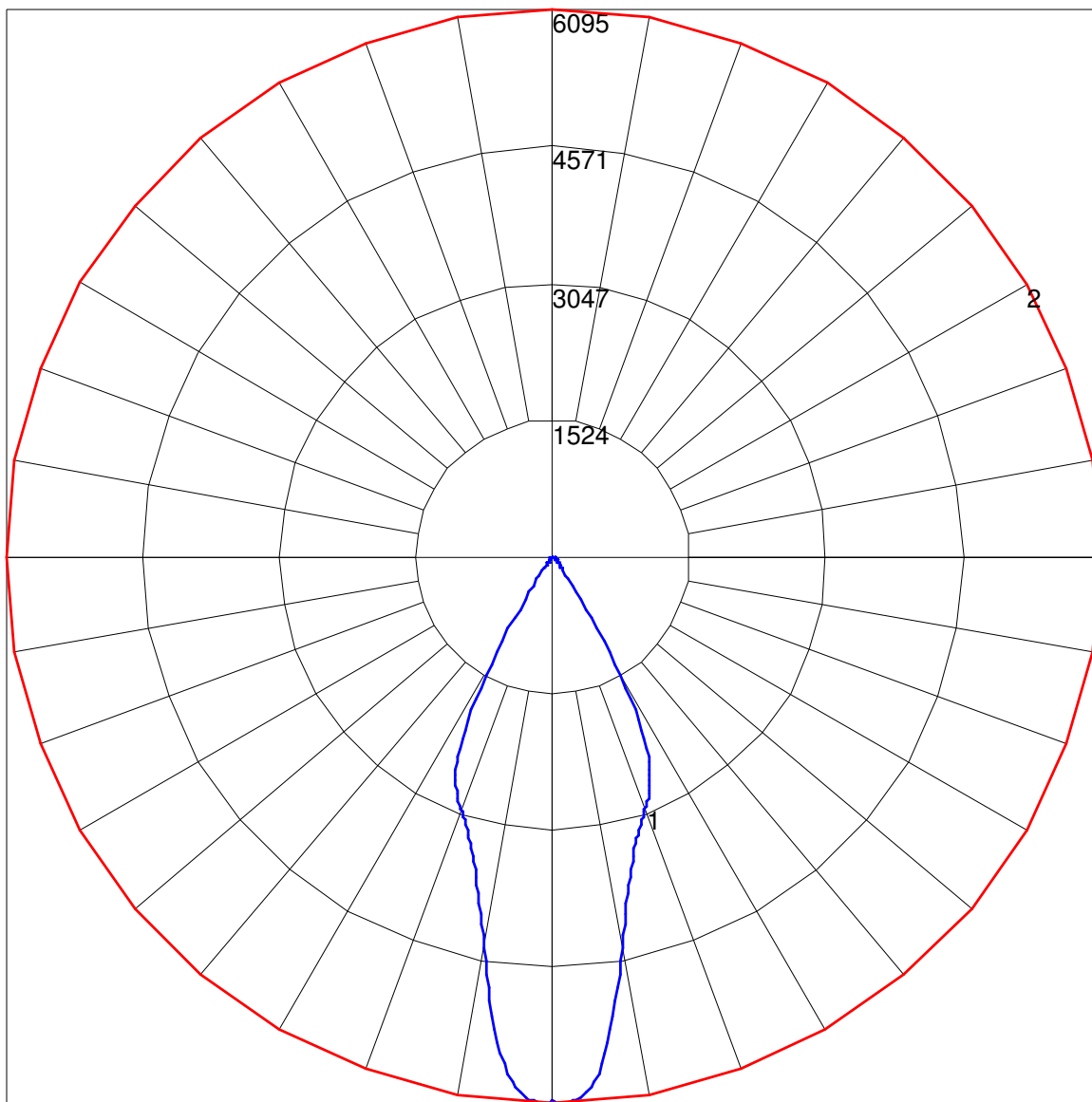
| X=2H | Y=2H | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|      | 3H   | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|      | 4H   | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|      | 6H   | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|      | 8H   | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|      | 12H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |

### UGR Viewed Endwise

|     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 4H  | 2H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 3H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 4H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 6H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 8H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 12H | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 8H  | 4H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 6H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 8H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 12H | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
| 12H | 4H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 6H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |
|     | 8H  | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 | 3.7 |

Maximum UGR = 3.7

POLAR GRAPH



Maximum Candela = 6094.5 Located At Horizontal Angle = 0, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)