



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 6CR-TL-L10-927-XXX-DIM-UNV-RW-WH-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12385721.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 27-JAN-2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] 6CR-TL-L10-927-xxx-DIM-UNV-RW-WH-xx

[LUMINAIRE] 6" DIA. SURFACE CYLINDER

[MORE] clear patterned glass lens enclosure

[LAMP] One white LED

[_SEARCH_SOURCETYPE] LED

[_SEARCH_APPLICATION] Indoor, Classroom, Commercial, Corridor, Hotel, Industrial, Office, Downlight

[_SEARCH_MOUNTING] Surface

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 656 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 66 |
| Total Luminaire Watts | 9.93576 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.84 |
| Spacing Criterion (90-270) | 0.84 |
| Spacing Criterion (Diagonal) | 0.76 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 6900 | 6900 | 6900 |
| 55 | 6091 | 6091 | 6091 |
| 65 | 4806 | 4806 | 4806 |
| 75 | 3036 | 3036 | 3036 |
| 85 | 2525 | 2525 | 2525 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 834.90 |
| 0.5 | 835.30 |
| 1.0 | 835.70 |
| 1.5 | 836.00 |
| 2.0 | 836.40 |
| 2.5 | 837.00 |
| 3.0 | 837.40 |
| 3.5 | 837.70 |
| 4.0 | 838.00 |
| 4.5 | 837.80 |
| 5.0 | 837.40 |
| 5.5 | 837.10 |
| 6.0 | 836.60 |
| 6.5 | 835.50 |
| 7.0 | 834.40 |
| 7.5 | 832.90 |
| 8.0 | 831.00 |
| 8.5 | 828.70 |
| 9.0 | 826.20 |
| 9.5 | 823.50 |
| 10.0 | 820.30 |
| 10.5 | 816.90 |
| 11.0 | 813.00 |
| 11.5 | 808.80 |
| 12.0 | 804.20 |
| 12.5 | 798.90 |
| 13.0 | 793.20 |
| 13.5 | 787.00 |
| 14.0 | 780.00 |
| 14.5 | 772.30 |
| 15.0 | 764.00 |
| 15.5 | 755.10 |
| 16.0 | 745.10 |
| 16.5 | 734.70 |
| 17.0 | 723.40 |
| 17.5 | 711.30 |
| 18.0 | 698.20 |
| 18.5 | 684.50 |
| 19.0 | 669.70 |
| 19.5 | 654.10 |
| 20.0 | 637.40 |
| 20.5 | 619.60 |
| 21.0 | 600.80 |
| 21.5 | 581.10 |
| 22.0 | 560.70 |
| 22.5 | 539.30 |
| 23.0 | 517.00 |
| 23.5 | 494.30 |
| 24.0 | 471.00 |
| 24.5 | 447.40 |
| 25.0 | 423.70 |
| 25.5 | 400.10 |
| 26.0 | 376.50 |
| 26.5 | 353.20 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|--------|
| 27.0 | 330.60 |
| 27.5 | 308.70 |
| 28.0 | 287.70 |
| 28.5 | 267.90 |
| 29.0 | 249.00 |
| 29.5 | 231.50 |
| 30.0 | 215.10 |
| 30.5 | 199.90 |
| 31.0 | 185.90 |
| 31.5 | 173.10 |
| 32.0 | 161.30 |
| 32.5 | 150.40 |
| 33.0 | 140.40 |
| 33.5 | 131.20 |
| 34.0 | 122.50 |
| 34.5 | 114.60 |
| 35.0 | 107.20 |
| 35.5 | 100.50 |
| 36.0 | 94.37 |
| 36.5 | 88.86 |
| 37.0 | 83.94 |
| 37.5 | 79.60 |
| 38.0 | 75.76 |
| 38.5 | 72.40 |
| 39.0 | 69.43 |
| 39.5 | 66.78 |
| 40.0 | 64.42 |
| 40.5 | 62.31 |
| 41.0 | 60.42 |
| 41.5 | 58.69 |
| 42.0 | 57.14 |
| 42.5 | 55.71 |
| 43.0 | 54.39 |
| 43.5 | 53.18 |
| 44.0 | 52.08 |
| 44.5 | 51.06 |
| 45.0 | 50.11 |
| 45.5 | 49.23 |
| 46.0 | 48.40 |
| 46.5 | 47.63 |
| 47.0 | 46.91 |
| 47.5 | 46.22 |
| 48.0 | 45.54 |
| 48.5 | 44.89 |
| 49.0 | 44.23 |
| 49.5 | 43.57 |
| 50.0 | 42.91 |
| 50.5 | 42.24 |
| 51.0 | 41.56 |
| 51.5 | 40.87 |
| 52.0 | 40.18 |
| 52.5 | 39.48 |
| 53.0 | 38.76 |
| 53.5 | 38.04 |
| 54.0 | 37.32 |
| 54.5 | 36.61 |

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CANDELA TABULATION - (Cont.)

| | |
|------|-------|
| 55.0 | 35.88 |
| 55.5 | 35.16 |
| 56.0 | 34.45 |
| 56.5 | 33.73 |
| 57.0 | 33.01 |
| 57.5 | 32.28 |
| 58.0 | 31.54 |
| 58.5 | 30.80 |
| 59.0 | 30.05 |
| 59.5 | 29.31 |
| 60.0 | 28.52 |
| 60.5 | 27.76 |
| 61.0 | 26.97 |
| 61.5 | 26.19 |
| 62.0 | 25.40 |
| 62.5 | 24.63 |
| 63.0 | 23.84 |
| 63.5 | 23.09 |
| 64.0 | 22.33 |
| 64.5 | 21.59 |
| 65.0 | 20.86 |
| 65.5 | 20.14 |
| 66.0 | 19.40 |
| 66.5 | 18.66 |
| 67.0 | 17.92 |
| 67.5 | 17.17 |
| 68.0 | 16.40 |
| 68.5 | 15.64 |
| 69.0 | 14.86 |
| 69.5 | 14.09 |
| 70.0 | 13.33 |
| 70.5 | 12.57 |
| 71.0 | 11.85 |
| 71.5 | 11.16 |
| 72.0 | 10.57 |
| 72.5 | 10.04 |
| 73.0 | 9.56 |
| 73.5 | 9.12 |
| 74.0 | 8.76 |
| 74.5 | 8.41 |
| 75.0 | 8.07 |
| 75.5 | 7.74 |
| 76.0 | 7.40 |
| 76.5 | 7.08 |
| 77.0 | 6.76 |
| 77.5 | 6.45 |
| 78.0 | 6.14 |
| 78.5 | 5.83 |
| 79.0 | 5.53 |
| 79.5 | 5.24 |
| 80.0 | 4.93 |
| 80.5 | 4.65 |
| 81.0 | 4.35 |
| 81.5 | 4.08 |
| 82.0 | 3.81 |
| 82.5 | 3.53 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|------|
| 83.0 | 3.27 |
| 83.5 | 3.00 |
| 84.0 | 2.74 |
| 84.5 | 2.49 |
| 85.0 | 2.26 |
| 85.5 | 1.99 |
| 86.0 | 1.78 |
| 86.5 | 1.54 |
| 87.0 | 1.31 |
| 87.5 | 1.09 |
| 88.0 | 0.87 |
| 88.5 | 0.67 |
| 89.0 | 0.46 |
| 89.5 | 0.34 |
| 90.0 | 0.22 |
| 90.5 | 0.00 |
| 91.0 | 0.00 |
| 91.5 | 0.00 |
| 92.0 | 0.00 |
| 92.5 | 0.00 |
| 93.0 | 0.00 |
| 93.5 | 0.00 |
| 94.0 | 0.00 |
| 94.5 | 0.00 |
| 95.0 | 0.00 |
| 95.5 | 0.00 |
| 96.0 | 0.00 |
| 96.5 | 0.00 |
| 97.0 | 0.00 |
| 97.5 | 0.00 |
| 98.0 | 0.00 |
| 98.5 | 0.00 |
| 99.0 | 0.00 |
| 99.5 | 0.00 |
| 100.0 | 0.00 |
| 100.5 | 0.00 |
| 101.0 | 0.00 |
| 101.5 | 0.00 |
| 102.0 | 0.00 |
| 102.5 | 0.00 |
| 103.0 | 0.00 |
| 103.5 | 0.00 |
| 104.0 | 0.00 |
| 104.5 | 0.00 |
| 105.0 | 0.00 |
| 105.5 | 0.00 |
| 106.0 | 0.00 |
| 106.5 | 0.00 |
| 107.0 | 0.00 |
| 107.5 | 0.00 |
| 108.0 | 0.00 |
| 108.5 | 0.00 |
| 109.0 | 0.00 |
| 109.5 | 0.00 |
| 110.0 | 0.00 |
| 110.5 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6CR-TL-L10-927-XXX-DIM-UNV-RW-WH-XX_.IES

CANDELA TABULATION - (Cont.)

| | |
|-------|------|
| 111.0 | 0.00 |
| 111.5 | 0.00 |
| 112.0 | 0.00 |
| 112.5 | 0.00 |
| 113.0 | 0.00 |
| 113.5 | 0.00 |
| 114.0 | 0.00 |
| 114.5 | 0.00 |
| 115.0 | 0.00 |
| 115.5 | 0.00 |
| 116.0 | 0.00 |
| 116.5 | 0.00 |
| 117.0 | 0.00 |
| 117.5 | 0.00 |
| 118.0 | 0.00 |
| 118.5 | 0.00 |
| 119.0 | 0.00 |
| 119.5 | 0.00 |
| 120.0 | 0.00 |
| 120.5 | 0.00 |
| 121.0 | 0.00 |
| 121.5 | 0.00 |
| 122.0 | 0.00 |
| 122.5 | 0.00 |
| 123.0 | 0.00 |
| 123.5 | 0.00 |
| 124.0 | 0.00 |
| 124.5 | 0.00 |
| 125.0 | 0.00 |
| 125.5 | 0.00 |
| 126.0 | 0.00 |
| 126.5 | 0.00 |
| 127.0 | 0.00 |
| 127.5 | 0.00 |
| 128.0 | 0.00 |
| 128.5 | 0.00 |
| 129.0 | 0.00 |
| 129.5 | 0.00 |
| 130.0 | 0.00 |
| 130.5 | 0.00 |
| 131.0 | 0.00 |
| 131.5 | 0.00 |
| 132.0 | 0.00 |
| 132.5 | 0.00 |
| 133.0 | 0.00 |
| 133.5 | 0.00 |
| 134.0 | 0.00 |
| 134.5 | 0.00 |
| 135.0 | 0.00 |
| 135.5 | 0.00 |
| 136.0 | 0.00 |
| 136.5 | 0.00 |
| 137.0 | 0.00 |
| 137.5 | 0.00 |
| 138.0 | 0.00 |
| 138.5 | 0.00 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6CR-TL-L10-927-XXX-DIM-UNV-RW-WH-XX_.IES

CANDELA TABULATION - (Cont.)

| | |
|-------|------|
| 139.0 | 0.00 |
| 139.5 | 0.00 |
| 140.0 | 0.00 |
| 140.5 | 0.00 |
| 141.0 | 0.00 |
| 141.5 | 0.00 |
| 142.0 | 0.00 |
| 142.5 | 0.00 |
| 143.0 | 0.00 |
| 143.5 | 0.00 |
| 144.0 | 0.00 |
| 144.5 | 0.00 |
| 145.0 | 0.00 |
| 145.5 | 0.00 |
| 146.0 | 0.00 |
| 146.5 | 0.00 |
| 147.0 | 0.00 |
| 147.5 | 0.00 |
| 148.0 | 0.00 |
| 148.5 | 0.00 |
| 149.0 | 0.00 |
| 149.5 | 0.00 |
| 150.0 | 0.00 |
| 150.5 | 0.00 |
| 151.0 | 0.00 |
| 151.5 | 0.00 |
| 152.0 | 0.00 |
| 152.5 | 0.00 |
| 153.0 | 0.00 |
| 153.5 | 0.00 |
| 154.0 | 0.00 |
| 154.5 | 0.00 |
| 155.0 | 0.00 |
| 155.5 | 0.00 |
| 156.0 | 0.00 |
| 156.5 | 0.00 |
| 157.0 | 0.00 |
| 157.5 | 0.00 |
| 158.0 | 0.00 |
| 158.5 | 0.00 |
| 159.0 | 0.00 |
| 159.5 | 0.00 |
| 160.0 | 0.00 |
| 160.5 | 0.00 |
| 161.0 | 0.00 |
| 161.5 | 0.00 |
| 162.0 | 0.00 |
| 162.5 | 0.00 |
| 163.0 | 0.00 |
| 163.5 | 0.00 |
| 164.0 | 0.00 |
| 164.5 | 0.00 |
| 165.0 | 0.00 |
| 165.5 | 0.00 |
| 166.0 | 0.00 |
| 166.5 | 0.00 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|------|
| 167.0 | 0.00 |
| 167.5 | 0.00 |
| 168.0 | 0.00 |
| 168.5 | 0.00 |
| 169.0 | 0.00 |
| 169.5 | 0.00 |
| 170.0 | 0.00 |
| 170.5 | 0.00 |
| 171.0 | 0.00 |
| 171.5 | 0.00 |
| 172.0 | 0.00 |
| 172.5 | 0.00 |
| 173.0 | 0.00 |
| 173.5 | 0.00 |
| 174.0 | 0.00 |
| 174.5 | 0.00 |
| 175.0 | 0.00 |
| 175.5 | 0.00 |
| 176.0 | 0.00 |
| 176.5 | 0.00 |
| 177.0 | 0.00 |
| 177.5 | 0.00 |
| 178.0 | 0.00 |
| 178.5 | 0.00 |
| 179.0 | 0.00 |
| 179.5 | 0.00 |
| 180.0 | 0.00 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 289.91 | N.A. | 44.20 |
| 0-30 | 479.94 | N.A. | 73.20 |
| 0-40 | 552.10 | N.A. | 84.20 |
| 0-60 | 623.61 | N.A. | 95.10 |
| 0-80 | 653.07 | N.A. | 99.60 |
| 0-90 | 655.62 | N.A. | 100.00 |
| 10-90 | 576.17 | N.A. | 87.90 |
| 20-40 | 262.19 | N.A. | 40.00 |
| 20-50 | 301.67 | N.A. | 46.00 |
| 40-70 | 92.15 | N.A. | 14.10 |
| 60-80 | 29.46 | N.A. | 4.50 |
| 70-80 | 8.82 | N.A. | 1.30 |
| 80-90 | 2.55 | N.A. | 0.40 |
| 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 | 655.62 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 79.44 |
| 10-20 | 210.47 |
| 20-30 | 190.03 |
| 30-40 | 72.16 |
| 40-50 | 39.48 |
| 50-60 | 32.03 |
| 60-70 | 20.64 |
| 70-80 | 8.82 |
| 80-90 | 2.55 |
| 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 |
| 2 | 107 | 102 | 97 | 94 | 105 | 100 | 96 | 93 | 97 | 93 | 90 | 94 | 91 | 89 | 91 | 89 | 87 | 85 |
| 3 | 101 | 94 | 89 | 85 | 99 | 93 | 88 | 84 | 90 | 86 | 83 | 88 | 84 | 81 | 86 | 83 | 80 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 82 | 77 | 85 | 80 | 76 | 83 | 79 | 76 | 81 | 77 | 75 | 73 |
| 5 | 91 | 82 | 76 | 72 | 89 | 82 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 73 | 70 | 68 |
| 6 | 87 | 78 | 71 | 67 | 85 | 77 | 71 | 67 | 75 | 70 | 66 | 74 | 69 | 66 | 72 | 69 | 65 | 64 |
| 7 | 83 | 73 | 67 | 63 | 81 | 72 | 67 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 60 |
| 8 | 79 | 69 | 63 | 59 | 78 | 69 | 63 | 59 | 68 | 62 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 57 |
| 9 | 75 | 66 | 60 | 56 | 74 | 65 | 60 | 56 | 64 | 59 | 55 | 63 | 59 | 55 | 62 | 58 | 55 | 54 |
| 10 | 72 | 62 | 57 | 53 | 71 | 62 | 56 | 53 | 61 | 56 | 53 | 60 | 56 | 52 | 60 | 55 | 52 | 51 |

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UGR TABLE - CORRECTED

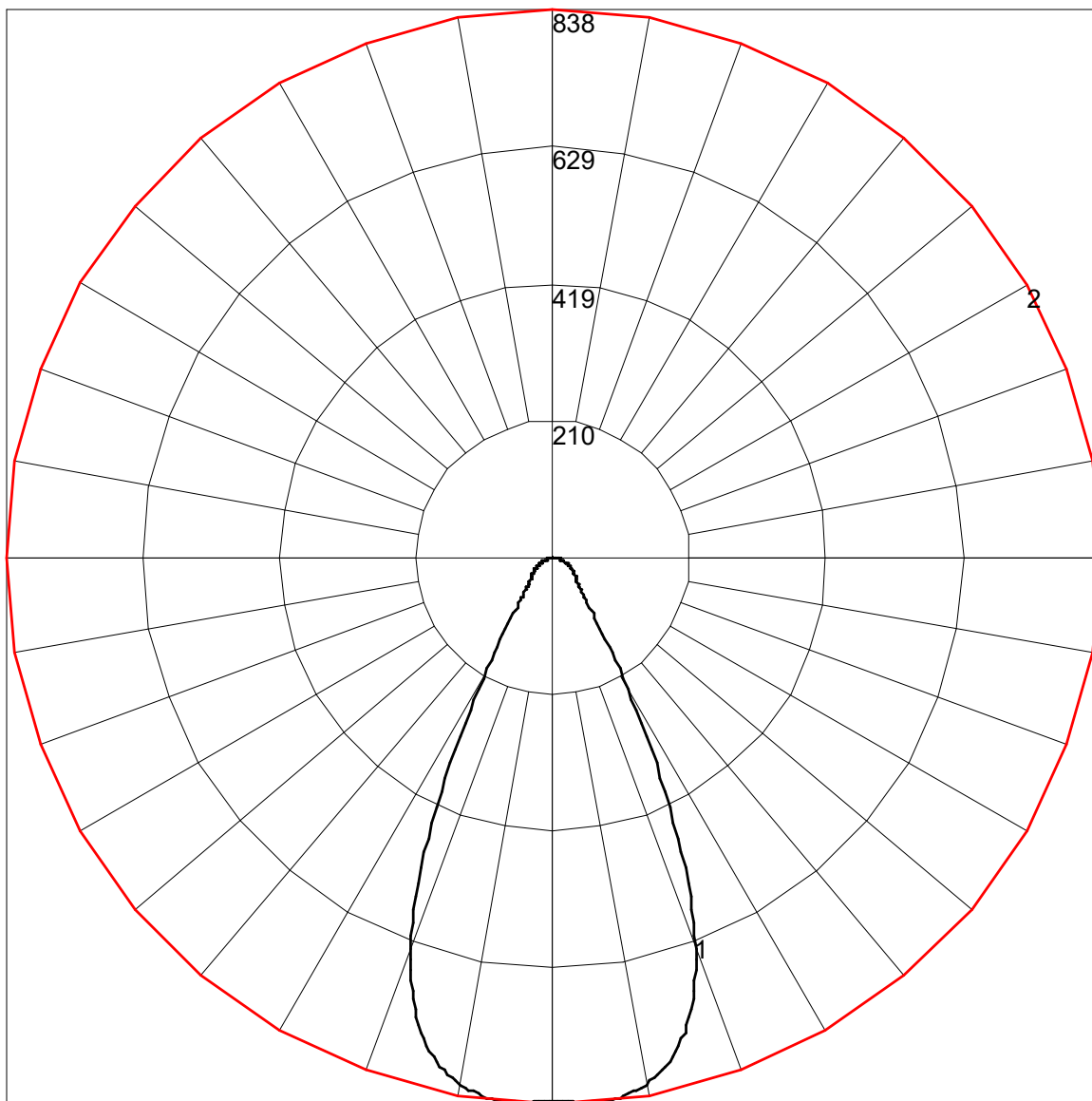
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 14.0 | 15.1 | 14.3 | 15.4 | 15.7 | 14.0 | 15.1 | 14.3 | 15.4 | 15.7 |
| | 3H | 15.1 | 16.1 | 15.5 | 16.4 | 16.8 | 15.1 | 16.1 | 15.5 | 16.4 | 16.8 |
| | 4H | 15.4 | 16.3 | 15.8 | 16.6 | 17.0 | 15.4 | 16.3 | 15.8 | 16.6 | 17.0 |
| | 6H | 15.6 | 16.4 | 16.0 | 16.8 | 17.2 | 15.6 | 16.4 | 16.0 | 16.8 | 17.2 |
| | 8H | 15.6 | 16.4 | 16.1 | 16.8 | 17.2 | 15.6 | 16.4 | 16.1 | 16.8 | 17.2 |
| | 12H | 15.7 | 16.4 | 16.1 | 16.8 | 17.2 | 15.7 | 16.4 | 16.1 | 16.8 | 17.2 |
| 4H | 2H | 14.3 | 15.2 | 14.7 | 15.6 | 16.0 | 14.3 | 15.2 | 14.7 | 15.6 | 16.0 |
| | 3H | 15.6 | 16.3 | 16.0 | 16.7 | 17.1 | 15.6 | 16.3 | 16.0 | 16.7 | 17.1 |
| | 4H | 15.9 | 16.6 | 16.4 | 17.0 | 17.5 | 15.9 | 16.6 | 16.4 | 17.0 | 17.5 |
| | 6H | 16.3 | 16.8 | 16.7 | 17.3 | 17.8 | 16.3 | 16.8 | 16.7 | 17.3 | 17.8 |
| | 8H | 16.4 | 16.9 | 16.8 | 17.3 | 17.8 | 16.4 | 16.9 | 16.8 | 17.3 | 17.8 |
| | 12H | 16.4 | 16.9 | 16.9 | 17.4 | 17.8 | 16.4 | 16.9 | 16.9 | 17.4 | 17.8 |
| 8H | 4H | 16.0 | 16.6 | 16.5 | 17.0 | 17.5 | 16.0 | 16.6 | 16.5 | 17.0 | 17.5 |
| | 6H | 16.4 | 16.9 | 16.9 | 17.4 | 17.8 | 16.4 | 16.9 | 16.9 | 17.4 | 17.8 |
| | 8H | 16.6 | 17.0 | 17.1 | 17.5 | 18.0 | 16.6 | 17.0 | 17.1 | 17.5 | 18.0 |
| | 12H | 16.7 | 17.1 | 17.3 | 17.6 | 18.1 | 16.7 | 17.1 | 17.3 | 17.6 | 18.1 |
| 12H | 4H | 16.0 | 16.5 | 16.5 | 17.0 | 17.4 | 16.0 | 16.5 | 16.5 | 17.0 | 17.4 |
| | 6H | 16.5 | 16.8 | 17.0 | 17.3 | 17.8 | 16.5 | 16.8 | 17.0 | 17.3 | 17.8 |
| | 8H | 16.6 | 17.0 | 17.2 | 17.5 | 18.0 | 16.6 | 17.0 | 17.2 | 17.5 | 18.0 |

Maximum UGR = 18.1

POLAR GRAPH



Maximum Candela = 838 Located At Horizontal Angle = 0, Vertical Angle = 4
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (4) (Through Max. Cd.)