

IES INDOOR REPORT
PHOTOMETRIC FILENAME : 6LDR-L20-930-CS-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 4792018053.03
[TESTLAB] UL, LLC
[ISSUE DATE] 2025-12-11
[TEST DATE] 11/12/2025
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] 6LDR-L20-930-CS-DIM-UNV
[LUMINAIRE] 6" recessed downlight with clear semi-specular finish refl
[MORE] ector and top diffuser lens
[LAMP] LED
[BALLAST] 0-10V LED DRIVER

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1673 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 98 |
| Total Luminaire Watts | 17 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.86 |
| Spacing Criterion (90-270) | 0.86 |
| Spacing Criterion (Diagonal) | 0.90 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.50 ft (Diameter) |
| Luminous Width (90-270) | 0.50 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 | 16737 | 16737 | 16737 |
| 55 | 1833 | 1833 | 1833 |
| 65 | 203 | 203 | 203 |
| 75 | 75 | 75 | 75 |
| 85 | 63 | 63 | 63 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1846.092 |
| 0.5 | 1846.092 |
| 1.0 | 1846.092 |
| 1.5 | 1847.103 |
| 2.0 | 1848.113 |
| 2.5 | 1849.124 |
| 3.0 | 1850.134 |
| 3.5 | 1850.639 |
| 4.0 | 1849.629 |
| 4.5 | 1847.608 |
| 5.0 | 1843.566 |
| 5.5 | 1838.009 |
| 6.0 | 1829.925 |
| 6.5 | 1820.831 |
| 7.0 | 1809.716 |
| 7.5 | 1797.591 |
| 8.0 | 1781.423 |
| 8.5 | 1765.761 |
| 9.0 | 1747.573 |
| 9.5 | 1726.859 |
| 10.0 | 1706.145 |
| 10.5 | 1683.410 |
| 11.0 | 1659.159 |
| 11.5 | 1632.887 |
| 12.0 | 1608.636 |
| 12.5 | 1582.365 |
| 13.0 | 1554.577 |
| 13.5 | 1532.347 |
| 14.0 | 1506.581 |
| 14.5 | 1481.825 |
| 15.0 | 1459.595 |
| 15.5 | 1438.881 |
| 16.0 | 1415.640 |
| 16.5 | 1398.463 |
| 17.0 | 1379.769 |
| 17.5 | 1361.076 |
| 18.0 | 1344.404 |
| 18.5 | 1326.216 |
| 19.0 | 1310.048 |
| 19.5 | 1294.386 |
| 20.0 | 1278.724 |
| 20.5 | 1263.063 |
| 21.0 | 1247.401 |
| 21.5 | 1231.739 |
| 22.0 | 1216.077 |
| 22.5 | 1198.899 |
| 23.0 | 1182.732 |
| 23.5 | 1165.554 |
| 24.0 | 1147.871 |
| 24.5 | 1129.683 |
| 25.0 | 1110.485 |
| 25.5 | 1090.276 |
| 26.0 | 1069.561 |
| 26.5 | 1047.331 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|----------|
| 27.0 | 1024.596 |
| 27.5 | 1001.356 |
| 28.0 | 976.600 |
| 28.5 | 951.844 |
| 29.0 | 926.077 |
| 29.5 | 900.816 |
| 30.0 | 874.039 |
| 30.5 | 847.768 |
| 31.0 | 820.991 |
| 31.5 | 794.719 |
| 32.0 | 767.942 |
| 32.5 | 741.165 |
| 33.0 | 714.893 |
| 33.5 | 689.127 |
| 34.0 | 662.855 |
| 34.5 | 637.594 |
| 35.0 | 614.859 |
| 35.5 | 590.608 |
| 36.0 | 566.357 |
| 36.5 | 542.612 |
| 37.0 | 518.866 |
| 37.5 | 495.474 |
| 38.0 | 472.638 |
| 38.5 | 450.206 |
| 39.0 | 428.279 |
| 39.5 | 406.858 |
| 40.0 | 385.941 |
| 40.5 | 365.783 |
| 41.0 | 346.079 |
| 41.5 | 327.184 |
| 42.0 | 308.945 |
| 42.5 | 291.515 |
| 43.0 | 274.842 |
| 43.5 | 259.029 |
| 44.0 | 243.872 |
| 44.5 | 229.625 |
| 45.0 | 216.085 |
| 45.5 | 203.201 |
| 46.0 | 190.975 |
| 46.5 | 179.304 |
| 47.0 | 168.139 |
| 47.5 | 157.428 |
| 48.0 | 147.122 |
| 48.5 | 137.118 |
| 49.0 | 127.266 |
| 49.5 | 117.616 |
| 50.0 | 108.068 |
| 50.5 | 98.569 |
| 51.0 | 89.122 |
| 51.5 | 79.573 |
| 52.0 | 70.075 |
| 52.5 | 60.425 |
| 53.0 | 50.876 |
| 53.5 | 41.681 |
| 54.0 | 33.143 |
| 54.5 | 25.615 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 19.199 |
| 55.5 | 14.247 |
| 56.0 | 10.761 |
| 56.5 | 8.437 |
| 57.0 | 6.972 |
| 57.5 | 5.962 |
| 58.0 | 5.204 |
| 58.5 | 4.648 |
| 59.0 | 4.193 |
| 59.5 | 3.789 |
| 60.0 | 3.436 |
| 60.5 | 3.183 |
| 61.0 | 2.880 |
| 61.5 | 2.678 |
| 62.0 | 2.476 |
| 62.5 | 2.274 |
| 63.0 | 2.071 |
| 63.5 | 1.920 |
| 64.0 | 1.819 |
| 64.5 | 1.667 |
| 65.0 | 1.566 |
| 65.5 | 1.415 |
| 66.0 | 1.364 |
| 66.5 | 1.263 |
| 67.0 | 1.162 |
| 67.5 | 1.061 |
| 68.0 | 1.010 |
| 68.5 | 0.909 |
| 69.0 | 0.859 |
| 69.5 | 0.808 |
| 70.0 | 0.758 |
| 70.5 | 0.707 |
| 71.0 | 0.657 |
| 71.5 | 0.606 |
| 72.0 | 0.556 |
| 72.5 | 0.505 |
| 73.0 | 0.455 |
| 73.5 | 0.455 |
| 74.0 | 0.404 |
| 74.5 | 0.404 |
| 75.0 | 0.354 |
| 75.5 | 0.354 |
| 76.0 | 0.303 |
| 76.5 | 0.303 |
| 77.0 | 0.253 |
| 77.5 | 0.253 |
| 78.0 | 0.253 |
| 78.5 | 0.202 |
| 79.0 | 0.202 |
| 79.5 | 0.202 |
| 80.0 | 0.152 |
| 80.5 | 0.152 |
| 81.0 | 0.152 |
| 81.5 | 0.152 |
| 82.0 | 0.152 |
| 82.5 | 0.101 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 0.101 |
| 83.5 | 0.101 |
| 84.0 | 0.101 |
| 84.5 | 0.101 |
| 85.0 | 0.101 |
| 85.5 | 0.101 |
| 86.0 | 0.051 |
| 86.5 | 0.051 |
| 87.0 | 0.051 |
| 87.5 | 0.051 |
| 88.0 | 0.051 |
| 88.5 | 0.051 |
| 89.0 | 0.051 |
| 89.5 | 0.051 |
| 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 |

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
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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 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 582.56 | N.A. | 34.80 |
| 0-30 | 1084.98 | N.A. | 64.90 |
| 0-40 | 1467.88 | N.A. | 87.80 |
| 0-60 | 1670.42 | N.A. | 99.90 |
| 0-80 | 1672.53 | N.A. | 100.00 |
| 0-90 | 1672.62 | N.A. | 100.00 |
| 10-90 | 1500.96 | N.A. | 89.70 |
| 20-40 | 885.32 | N.A. | 52.90 |
| 20-50 | 1057.97 | N.A. | 63.30 |
| 40-70 | 204.23 | N.A. | 12.20 |
| 60-80 | 2.11 | N.A. | 0.10 |
| 70-80 | 0.41 | N.A. | 0.00 |
| 80-90 | 0.10 | 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 | 1672.62 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 171.67 |
| 10-20 | 410.89 |
| 20-30 | 502.42 |
| 30-40 | 382.90 |
| 40-50 | 172.65 |
| 50-60 | 29.89 |
| 60-70 | 1.69 |
| 70-80 | 0.41 |
| 80-90 | 0.10 |
| 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 | 113 | 110 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 95 | 105 | 101 | 97 | 94 | 97 | 94 | 92 | 94 | 92 | 90 | 92 | 90 | 88 | 86 |
| 3 | 102 | 95 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 87 | 84 | 89 | 85 | 82 | 86 | 84 | 81 | 80 |
| 4 | 96 | 88 | 83 | 78 | 94 | 87 | 82 | 78 | 85 | 81 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 74 |
| 5 | 91 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 80 | 75 | 71 | 78 | 74 | 70 | 76 | 73 | 70 | 68 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 75 | 70 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 63 |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 66 | 61 | 70 | 65 | 61 | 69 | 64 | 61 | 68 | 64 | 60 | 59 |
| 8 | 78 | 68 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 |
| 9 | 74 | 64 | 58 | 53 | 73 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |
| 10 | 70 | 60 | 54 | 50 | 69 | 60 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 50 | 57 | 53 | 50 | 48 |

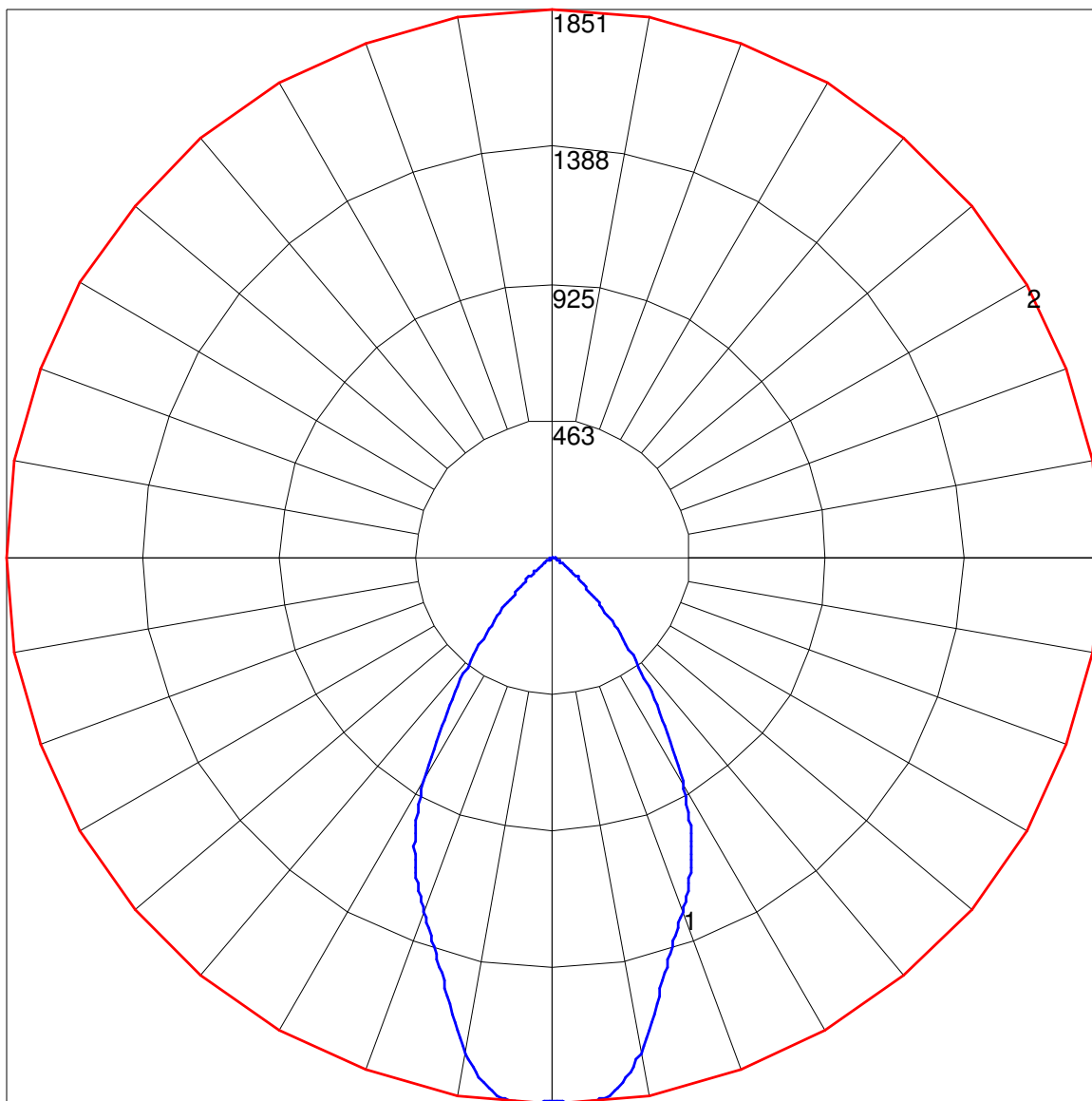
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
| 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 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 3H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 4H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 6H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 8H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 12H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 4H | 2H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 3H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 4H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 6H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 8H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 12H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 8H | 4H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 6H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 8H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 12H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| 12H | 4H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 6H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |
| | 8H | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 | 1.8 |

Maximum UGR = 1.8

POLAR GRAPH



Maximum Candela = 1850.639 Located At Horizontal Angle = 0, Vertical Angle = 3.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (3.5) (Through Max. Cd.)