

IES INDOOR REPORT

PHOTOMETRIC FILENAME : V2DR-L5-835-DIM-UNV-LW-OF_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 13257153.01
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 2025-05-20
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] V2DR-L5-835-DIM-UNV-LW-OF_
[LUMINAIRE] Aluminum housing, optics, and trim enclosure
[LAMP] One white LED
[OTHER] This test was performed using the calibrated photodetector method of absolute photometry.
[SEARCH_SOURCETYPE] LED
[SEARCH_APPLICATION] Indoor, Downlight, Vandal-Resistant
[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 505 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 75 |
| Total Luminaire Watts | 6.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.86 |
| Spacing Criterion (90-270) | 0.86 |
| Spacing Criterion (Diagonal) | 0.78 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 20830 | 20830 | 20830 |
| 55 | 18192 | 18192 | 18192 |
| 65 | 15541 | 15541 | 15541 |
| 75 | 12537 | 12537 | 12537 |
| 85 | 7023 | 7023 | 7023 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 595.869 |
| 0.5 | 595.562 |
| 1.0 | 595.562 |
| 1.5 | 595.255 |
| 2.0 | 594.948 |
| 2.5 | 594.027 |
| 3.0 | 593.106 |
| 3.5 | 592.185 |
| 4.0 | 590.957 |
| 4.5 | 589.423 |
| 5.0 | 587.888 |
| 5.5 | 586.353 |
| 6.0 | 584.818 |
| 6.5 | 582.976 |
| 7.0 | 581.134 |
| 7.5 | 579.292 |
| 8.0 | 577.143 |
| 8.5 | 574.994 |
| 9.0 | 572.538 |
| 9.5 | 570.082 |
| 10.0 | 567.319 |
| 10.5 | 564.249 |
| 11.0 | 561.179 |
| 11.5 | 557.802 |
| 12.0 | 554.426 |
| 12.5 | 550.435 |
| 13.0 | 546.444 |
| 13.5 | 542.146 |
| 14.0 | 537.541 |
| 14.5 | 532.629 |
| 15.0 | 527.410 |
| 15.5 | 521.578 |
| 16.0 | 515.745 |
| 16.5 | 509.298 |
| 17.0 | 502.237 |
| 17.5 | 495.176 |
| 18.0 | 487.195 |
| 18.5 | 478.906 |
| 19.0 | 469.696 |
| 19.5 | 459.872 |
| 20.0 | 449.742 |
| 20.5 | 438.690 |
| 21.0 | 427.331 |
| 21.5 | 415.052 |
| 22.0 | 402.158 |
| 22.5 | 388.957 |
| 23.0 | 375.143 |
| 23.5 | 361.021 |
| 24.0 | 346.593 |
| 24.5 | 331.857 |
| 25.0 | 316.815 |
| 25.5 | 301.926 |
| 26.0 | 286.852 |
| 26.5 | 271.933 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 257.228 |
| 27.5 | 242.830 |
| 28.0 | 228.739 |
| 28.5 | 214.986 |
| 29.0 | 201.662 |
| 29.5 | 188.677 |
| 30.0 | 176.489 |
| 30.5 | 164.977 |
| 31.0 | 154.109 |
| 31.5 | 143.979 |
| 32.0 | 134.493 |
| 32.5 | 125.682 |
| 33.0 | 117.608 |
| 33.5 | 110.210 |
| 34.0 | 103.487 |
| 34.5 | 97.347 |
| 35.0 | 91.760 |
| 35.5 | 86.694 |
| 36.0 | 82.120 |
| 36.5 | 78.037 |
| 37.0 | 74.353 |
| 37.5 | 71.068 |
| 38.0 | 68.121 |
| 38.5 | 65.450 |
| 39.0 | 63.056 |
| 39.5 | 60.907 |
| 40.0 | 58.942 |
| 40.5 | 57.192 |
| 41.0 | 55.596 |
| 41.5 | 54.122 |
| 42.0 | 52.772 |
| 42.5 | 51.513 |
| 43.0 | 50.377 |
| 43.5 | 49.333 |
| 44.0 | 48.351 |
| 44.5 | 47.430 |
| 45.0 | 46.540 |
| 45.5 | 45.711 |
| 46.0 | 44.913 |
| 46.5 | 44.145 |
| 47.0 | 43.409 |
| 47.5 | 42.672 |
| 48.0 | 41.966 |
| 48.5 | 41.260 |
| 49.0 | 40.553 |
| 49.5 | 39.878 |
| 50.0 | 39.233 |
| 50.5 | 38.589 |
| 51.0 | 37.913 |
| 51.5 | 37.299 |
| 52.0 | 36.655 |
| 52.5 | 36.041 |
| 53.0 | 35.427 |
| 53.5 | 34.813 |
| 54.0 | 34.199 |
| 54.5 | 33.585 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 32.971 |
| 55.5 | 32.357 |
| 56.0 | 31.774 |
| 56.5 | 31.129 |
| 57.0 | 30.546 |
| 57.5 | 29.932 |
| 58.0 | 29.318 |
| 58.5 | 28.704 |
| 59.0 | 28.090 |
| 59.5 | 27.476 |
| 60.0 | 26.862 |
| 60.5 | 26.248 |
| 61.0 | 25.634 |
| 61.5 | 24.989 |
| 62.0 | 24.406 |
| 62.5 | 23.792 |
| 63.0 | 23.147 |
| 63.5 | 22.533 |
| 64.0 | 21.919 |
| 64.5 | 21.336 |
| 65.0 | 20.753 |
| 65.5 | 20.169 |
| 66.0 | 19.586 |
| 66.5 | 19.033 |
| 67.0 | 18.450 |
| 67.5 | 17.928 |
| 68.0 | 17.376 |
| 68.5 | 16.854 |
| 69.0 | 16.332 |
| 69.5 | 15.779 |
| 70.0 | 15.257 |
| 70.5 | 14.736 |
| 71.0 | 14.244 |
| 71.5 | 13.722 |
| 72.0 | 13.201 |
| 72.5 | 12.709 |
| 73.0 | 12.188 |
| 73.5 | 11.696 |
| 74.0 | 11.236 |
| 74.5 | 10.745 |
| 75.0 | 10.253 |
| 75.5 | 9.793 |
| 76.0 | 9.333 |
| 76.5 | 8.872 |
| 77.0 | 8.442 |
| 77.5 | 7.982 |
| 78.0 | 7.552 |
| 78.5 | 7.122 |
| 79.0 | 6.692 |
| 79.5 | 6.263 |
| 80.0 | 5.864 |
| 80.5 | 5.434 |
| 81.0 | 5.035 |
| 81.5 | 4.636 |
| 82.0 | 4.236 |
| 82.5 | 3.837 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 3.469 |
| 83.5 | 3.070 |
| 84.0 | 2.702 |
| 84.5 | 2.302 |
| 85.0 | 1.934 |
| 85.5 | 1.535 |
| 86.0 | 1.136 |
| 86.5 | 0.860 |
| 87.0 | 0.614 |
| 87.5 | 0.368 |
| 88.0 | 0.246 |
| 88.5 | 0.184 |
| 89.0 | 0.123 |
| 89.5 | 0.092 |
| 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 : V2DR-L5-835-DIM-UNV-LW-OF_.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 : V2DR-L5-835-DIM-UNV-LW-OF_.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
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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 | 201.45 | N.A. | 39.90 |
| 0-30 | 343.44 | N.A. | 68.00 |
| 0-40 | 405.13 | N.A. | 80.20 |
| 0-60 | 471.07 | N.A. | 93.30 |
| 0-80 | 502.63 | N.A. | 99.50 |
| 0-90 | 505.07 | N.A. | 100.00 |
| 10-90 | 449.59 | N.A. | 89.00 |
| 20-40 | 203.68 | N.A. | 40.30 |
| 20-50 | 240.13 | N.A. | 47.50 |
| 40-70 | 86.57 | N.A. | 17.10 |
| 60-80 | 31.56 | N.A. | 6.20 |
| 70-80 | 10.93 | N.A. | 2.20 |
| 80-90 | 2.43 | N.A. | 0.50 |
| 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 | 505.07 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 55.48 |
| 10-20 | 145.97 |
| 20-30 | 141.99 |
| 30-40 | 61.69 |
| 40-50 | 36.45 |
| 50-60 | 29.49 |
| 60-70 | 20.63 |
| 70-80 | 10.93 |
| 80-90 | 2.43 |
| 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 | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 |
| 2 | 106 | 100 | 96 | 92 | 104 | 99 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 |
| 3 | 100 | 93 | 87 | 83 | 98 | 91 | 86 | 82 | 89 | 84 | 81 | 86 | 82 | 79 | 84 | 81 | 78 | 76 |
| 4 | 94 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 76 | 73 | 79 | 75 | 72 | 70 |
| 5 | 89 | 80 | 74 | 69 | 88 | 79 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 65 |
| 6 | 85 | 75 | 69 | 64 | 83 | 74 | 68 | 64 | 73 | 67 | 63 | 71 | 67 | 63 | 70 | 66 | 63 | 61 |
| 7 | 81 | 71 | 64 | 60 | 79 | 70 | 64 | 60 | 69 | 63 | 59 | 67 | 63 | 59 | 66 | 62 | 59 | 57 |
| 8 | 77 | 67 | 60 | 56 | 75 | 66 | 60 | 56 | 65 | 59 | 56 | 64 | 59 | 55 | 63 | 58 | 55 | 54 |
| 9 | 73 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 51 |
| 10 | 70 | 60 | 54 | 50 | 69 | 59 | 54 | 50 | 58 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 48 |

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UGR TABLE - CORRECTED

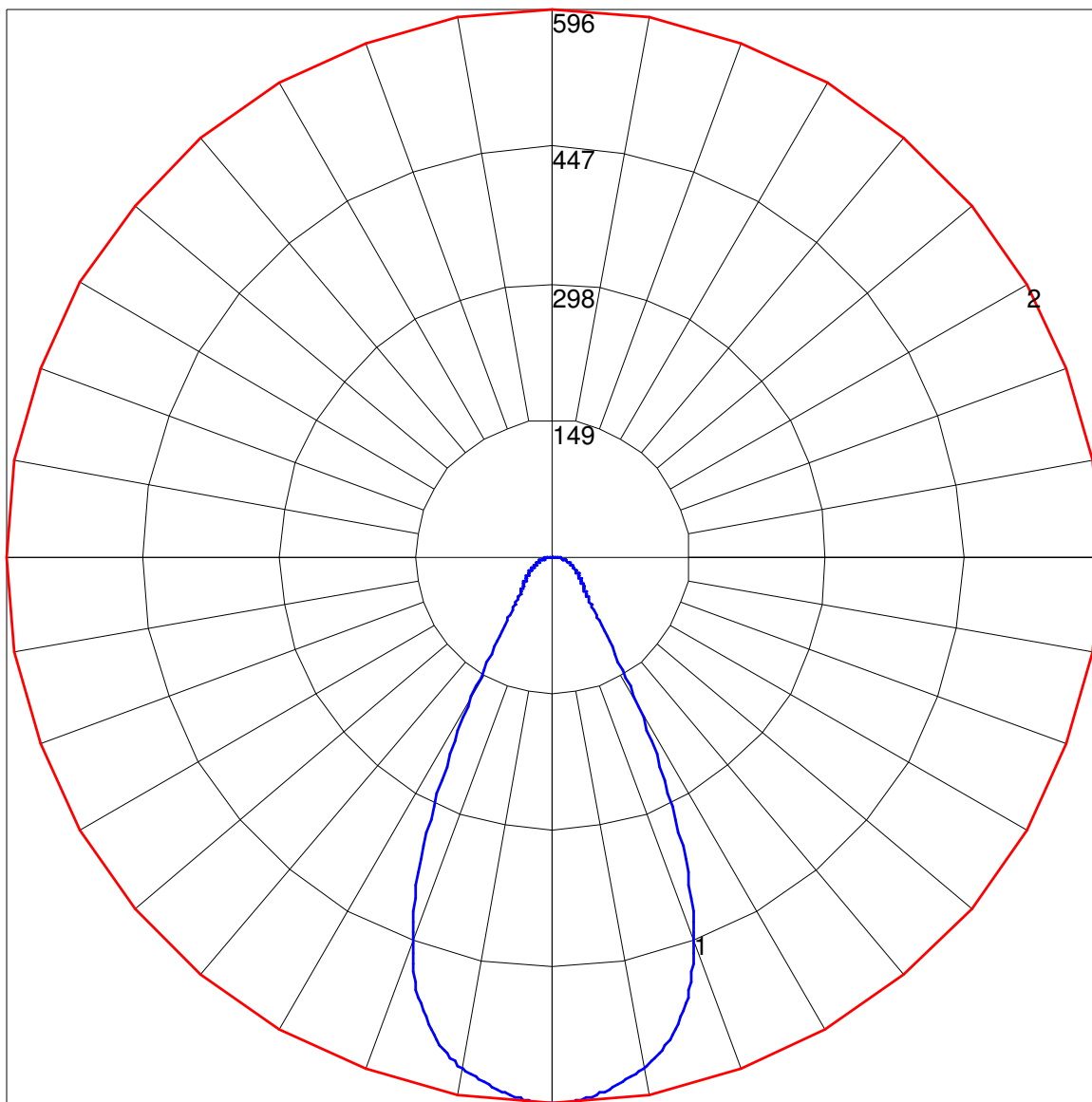
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 18.4 | 19.6 | 18.7 | 19.9 | 20.2 | 18.4 | 19.6 | 18.7 | 19.9 | 20.2 |
| | 3H | 19.9 | 20.9 | 20.3 | 21.2 | 21.6 | 19.9 | 20.9 | 20.3 | 21.2 | 21.6 |
| | 4H | 20.4 | 21.4 | 20.8 | 21.7 | 22.1 | 20.4 | 21.4 | 20.8 | 21.7 | 22.1 |
| | 6H | 20.7 | 21.6 | 21.1 | 22.0 | 22.4 | 20.7 | 21.6 | 21.1 | 22.0 | 22.4 |
| | 8H | 20.8 | 21.7 | 21.2 | 22.1 | 22.5 | 20.8 | 21.7 | 21.2 | 22.1 | 22.5 |
| | 12H | 20.8 | 21.7 | 21.3 | 22.0 | 22.5 | 20.8 | 21.7 | 21.3 | 22.0 | 22.5 |
| 4H | 2H | 18.9 | 19.8 | 19.3 | 20.2 | 20.6 | 18.9 | 19.8 | 19.3 | 20.2 | 20.6 |
| | 3H | 20.5 | 21.3 | 21.0 | 21.7 | 22.2 | 20.5 | 21.3 | 21.0 | 21.7 | 22.2 |
| | 4H | 21.2 | 21.9 | 21.6 | 22.3 | 22.8 | 21.2 | 21.9 | 21.6 | 22.3 | 22.8 |
| | 6H | 21.6 | 22.2 | 22.1 | 22.7 | 23.2 | 21.6 | 22.2 | 22.1 | 22.7 | 23.2 |
| | 8H | 21.7 | 22.3 | 22.2 | 22.8 | 23.2 | 21.7 | 22.3 | 22.2 | 22.8 | 23.2 |
| | 12H | 21.8 | 22.3 | 22.3 | 22.8 | 23.3 | 21.8 | 22.3 | 22.3 | 22.8 | 23.3 |
| 8H | 4H | 21.4 | 21.9 | 21.8 | 22.4 | 22.9 | 21.4 | 21.9 | 21.8 | 22.4 | 22.9 |
| | 6H | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 |
| | 8H | 22.1 | 22.5 | 22.6 | 23.0 | 23.5 | 22.1 | 22.5 | 22.6 | 23.0 | 23.5 |
| | 12H | 22.2 | 22.6 | 22.7 | 23.1 | 23.6 | 22.2 | 22.6 | 22.7 | 23.1 | 23.6 |
| 12H | 4H | 21.3 | 21.9 | 21.8 | 22.3 | 22.8 | 21.3 | 21.9 | 21.8 | 22.3 | 22.8 |
| | 6H | 21.9 | 22.4 | 22.5 | 22.8 | 23.4 | 21.9 | 22.4 | 22.5 | 22.8 | 23.4 |
| | 8H | 22.2 | 22.5 | 22.7 | 23.0 | 23.6 | 22.2 | 22.5 | 22.7 | 23.0 | 23.6 |

Maximum UGR = 23.6

POLAR GRAPH



Maximum Candela = 595.869 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)