



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V4DR-L10-835-DIM-UNV-LW-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #12316380.07

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 10 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V4DR-L10-835-DIM-UNV-LW-OF-WH

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

[MORE] erved glass 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 | 994 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 62 |
| Total Luminaire Watts | 16.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.00 |
| Spacing Criterion (90-270) | 1.00 |
| Spacing Criterion (Diagonal) | 0.90 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.35 ft (Diameter) |
| Luminous Width (90-270) | 0.35 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 | 27424 | 27424 | 27424 |
| 55 | 22534 | 22534 | 22534 |
| 65 | 16485 | 16485 | 16485 |
| 75 | 11413 | 11413 | 11413 |
| 85 | 6222 | 6222 | 6222 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 698.079 |
| 0.5 | 697.859 |
| 1.0 | 697.417 |
| 1.5 | 696.829 |
| 2.0 | 696.241 |
| 2.5 | 695.579 |
| 3.0 | 694.697 |
| 3.5 | 694.183 |
| 4.0 | 693.815 |
| 4.5 | 693.594 |
| 5.0 | 693.300 |
| 5.5 | 693.006 |
| 6.0 | 692.786 |
| 6.5 | 692.492 |
| 7.0 | 692.271 |
| 7.5 | 692.124 |
| 8.0 | 692.050 |
| 8.5 | 691.830 |
| 9.0 | 691.609 |
| 9.5 | 691.168 |
| 10.0 | 690.874 |
| 10.5 | 690.359 |
| 11.0 | 689.845 |
| 11.5 | 689.183 |
| 12.0 | 688.448 |
| 12.5 | 687.566 |
| 13.0 | 686.536 |
| 13.5 | 685.360 |
| 14.0 | 683.890 |
| 14.5 | 682.125 |
| 15.0 | 679.993 |
| 15.5 | 677.420 |
| 16.0 | 674.552 |
| 16.5 | 671.171 |
| 17.0 | 667.495 |
| 17.5 | 663.377 |
| 18.0 | 658.525 |
| 18.5 | 653.526 |
| 19.0 | 648.085 |
| 19.5 | 641.983 |
| 20.0 | 635.292 |
| 20.5 | 628.014 |
| 21.0 | 620.147 |
| 21.5 | 611.692 |
| 22.0 | 602.355 |
| 22.5 | 592.430 |
| 23.0 | 581.769 |
| 23.5 | 570.300 |
| 24.0 | 557.949 |
| 24.5 | 544.788 |
| 25.0 | 530.525 |
| 25.5 | 515.601 |
| 26.0 | 499.647 |
| 26.5 | 482.737 |

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CANDELA TABULATION - (Cont.)

| | |
|------|---------|
| 27.0 | 465.239 |
| 27.5 | 447.006 |
| 28.0 | 428.479 |
| 28.5 | 409.878 |
| 29.0 | 391.645 |
| 29.5 | 373.779 |
| 30.0 | 356.575 |
| 30.5 | 340.401 |
| 31.0 | 325.256 |
| 31.5 | 311.434 |
| 32.0 | 298.862 |
| 32.5 | 287.539 |
| 33.0 | 277.467 |
| 33.5 | 268.498 |
| 34.0 | 260.484 |
| 34.5 | 253.426 |
| 35.0 | 247.030 |
| 35.5 | 241.221 |
| 36.0 | 236.075 |
| 36.5 | 231.223 |
| 37.0 | 226.811 |
| 37.5 | 222.694 |
| 38.0 | 218.871 |
| 38.5 | 215.195 |
| 39.0 | 211.813 |
| 39.5 | 208.505 |
| 40.0 | 205.417 |
| 40.5 | 202.329 |
| 41.0 | 199.388 |
| 41.5 | 196.521 |
| 42.0 | 193.801 |
| 42.5 | 191.080 |
| 43.0 | 188.360 |
| 43.5 | 185.640 |
| 44.0 | 182.920 |
| 44.5 | 180.199 |
| 45.0 | 177.479 |
| 45.5 | 174.759 |
| 46.0 | 172.038 |
| 46.5 | 169.318 |
| 47.0 | 166.451 |
| 47.5 | 163.584 |
| 48.0 | 160.716 |
| 48.5 | 157.775 |
| 49.0 | 154.761 |
| 49.5 | 151.747 |
| 50.0 | 148.806 |
| 50.5 | 145.792 |
| 51.0 | 142.777 |
| 51.5 | 139.763 |
| 52.0 | 136.822 |
| 52.5 | 133.881 |
| 53.0 | 130.867 |
| 53.5 | 127.779 |
| 54.0 | 124.618 |
| 54.5 | 121.456 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|---------|
| 55.0 | 118.295 |
| 55.5 | 115.133 |
| 56.0 | 112.046 |
| 56.5 | 109.031 |
| 57.0 | 106.017 |
| 57.5 | 103.003 |
| 58.0 | 100.062 |
| 58.5 | 97.194 |
| 59.0 | 94.327 |
| 59.5 | 91.533 |
| 60.0 | 88.813 |
| 60.5 | 86.093 |
| 61.0 | 83.446 |
| 61.5 | 80.873 |
| 62.0 | 78.300 |
| 62.5 | 75.726 |
| 63.0 | 73.271 |
| 63.5 | 70.830 |
| 64.0 | 68.433 |
| 64.5 | 66.073 |
| 65.0 | 63.765 |
| 65.5 | 61.515 |
| 66.0 | 59.294 |
| 66.5 | 57.133 |
| 67.0 | 55.023 |
| 67.5 | 52.950 |
| 68.0 | 50.942 |
| 68.5 | 48.979 |
| 69.0 | 47.016 |
| 69.5 | 45.120 |
| 70.0 | 43.274 |
| 70.5 | 41.458 |
| 71.0 | 39.686 |
| 71.5 | 37.959 |
| 72.0 | 36.290 |
| 72.5 | 34.643 |
| 73.0 | 33.040 |
| 73.5 | 31.482 |
| 74.0 | 29.952 |
| 74.5 | 28.475 |
| 75.0 | 27.034 |
| 75.5 | 25.637 |
| 76.0 | 24.269 |
| 76.5 | 22.938 |
| 77.0 | 21.667 |
| 77.5 | 20.402 |
| 78.0 | 19.182 |
| 78.5 | 17.998 |
| 79.0 | 16.836 |
| 79.5 | 15.719 |
| 80.0 | 14.623 |
| 80.5 | 13.557 |
| 81.0 | 12.506 |
| 81.5 | 11.484 |
| 82.0 | 10.484 |
| 82.5 | 9.514 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 8.550 |
| 83.5 | 7.617 |
| 84.0 | 6.705 |
| 84.5 | 5.815 |
| 85.0 | 4.963 |
| 85.5 | 4.139 |
| 86.0 | 3.353 |
| 86.5 | 2.610 |
| 87.0 | 1.956 |
| 87.5 | 1.412 |
| 88.0 | 0.985 |
| 88.5 | 0.625 |
| 89.0 | 0.390 |
| 89.5 | 0.265 |
| 90.0 | 0.184 |
| 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 : V4DR-L10-835-DIM-UNV-LW-OF-WH_.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
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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 |

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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 |

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 256.42 | N.A. | 25.80 |
| 0-30 | 491.84 | N.A. | 49.50 |
| 0-40 | 652.20 | N.A. | 65.60 |
| 0-60 | 894.60 | N.A. | 90.00 |
| 0-80 | 987.53 | N.A. | 99.40 |
| 0-90 | 993.74 | N.A. | 100.00 |
| 10-90 | 927.62 | N.A. | 93.30 |
| 20-40 | 395.78 | N.A. | 39.80 |
| 20-50 | 532.46 | N.A. | 53.60 |
| 40-70 | 306.16 | N.A. | 30.80 |
| 60-80 | 92.92 | N.A. | 9.40 |
| 70-80 | 29.17 | N.A. | 2.90 |
| 80-90 | 6.22 | N.A. | 0.60 |
| 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 | 993.75 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 66.12 |
| 10-20 | 190.30 |
| 20-30 | 235.42 |
| 30-40 | 160.36 |
| 40-50 | 136.68 |
| 50-60 | 105.72 |
| 60-70 | 63.76 |
| 70-80 | 29.17 |
| 80-90 | 6.22 |
| 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 | 176 | 176 | 176 | 176 | 171 | 171 | 171 | 171 | 164 | 164 | 164 | 157 | 157 | 157 | 150 | 150 | 150 | 147 |
| 1 | 164 | 159 | 154 | 149 | 160 | 155 | 151 | 147 | 149 | 145 | 142 | 143 | 141 | 138 | 138 | 136 | 134 | 131 |
| 2 | 152 | 143 | 135 | 128 | 149 | 140 | 133 | 127 | 135 | 129 | 124 | 131 | 125 | 121 | 126 | 122 | 118 | 116 |
| 3 | 142 | 129 | 120 | 112 | 139 | 127 | 118 | 111 | 123 | 115 | 109 | 119 | 113 | 107 | 116 | 110 | 105 | 103 |
| 4 | 132 | 118 | 107 | 99 | 129 | 116 | 106 | 98 | 112 | 104 | 97 | 109 | 102 | 96 | 106 | 100 | 95 | 92 |
| 5 | 124 | 108 | 97 | 89 | 121 | 106 | 96 | 88 | 103 | 94 | 87 | 101 | 93 | 86 | 98 | 91 | 86 | 83 |
| 6 | 116 | 99 | 88 | 80 | 113 | 98 | 87 | 80 | 95 | 86 | 79 | 93 | 85 | 79 | 91 | 84 | 78 | 75 |
| 7 | 109 | 92 | 81 | 73 | 106 | 91 | 80 | 73 | 89 | 79 | 72 | 87 | 78 | 72 | 85 | 77 | 72 | 69 |
| 8 | 102 | 85 | 75 | 67 | 100 | 84 | 74 | 67 | 83 | 73 | 67 | 81 | 72 | 66 | 79 | 72 | 66 | 64 |
| 9 | 97 | 80 | 69 | 62 | 95 | 79 | 69 | 62 | 77 | 68 | 62 | 76 | 67 | 61 | 74 | 67 | 61 | 59 |
| 10 | 92 | 75 | 64 | 58 | 90 | 74 | 64 | 57 | 72 | 63 | 57 | 71 | 63 | 57 | 70 | 62 | 57 | 55 |

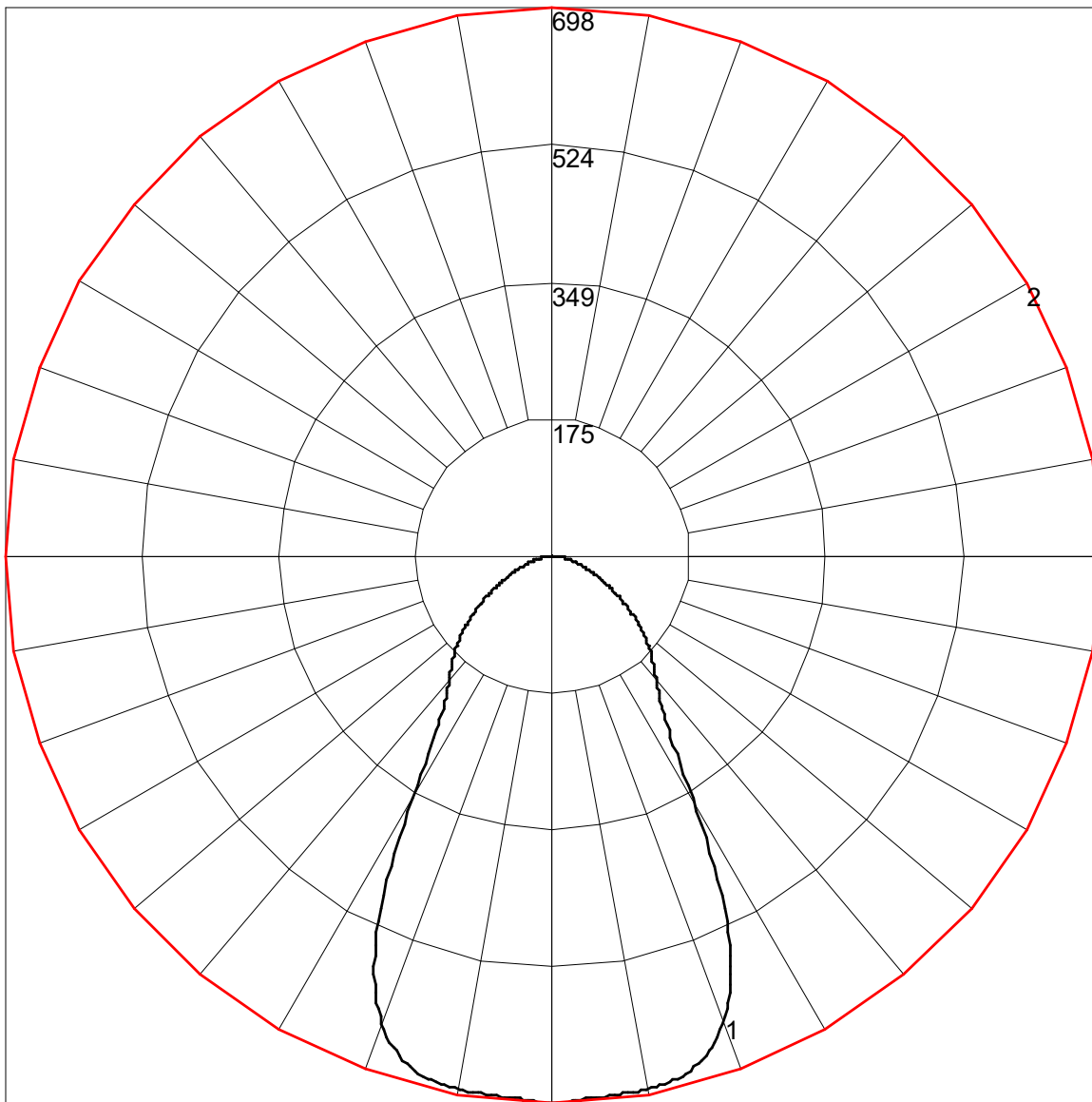
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UGR TABLE - CORRECTED

| | | | | | | | | | | | |
|----------------|------|----------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 19.2 | 20.6 | 19.6 | 20.9 | 21.2 | 19.2 | 20.6 | 19.6 | 20.9 | 21.2 |
| | 3H | 20.3 | 21.5 | 20.7 | 21.9 | 22.2 | 20.3 | 21.5 | 20.7 | 21.9 | 22.2 |
| | 4H | 20.7 | 21.8 | 21.1 | 22.1 | 22.5 | 20.7 | 21.8 | 21.1 | 22.1 | 22.5 |
| | 6H | 20.9 | 21.9 | 21.3 | 22.3 | 22.7 | 20.9 | 21.9 | 21.3 | 22.3 | 22.7 |
| | 8H | 20.9 | 21.9 | 21.4 | 22.3 | 22.7 | 20.9 | 21.9 | 21.4 | 22.3 | 22.7 |
| | 12H | 20.9 | 21.9 | 21.4 | 22.3 | 22.7 | 20.9 | 21.9 | 21.4 | 22.3 | 22.7 |
| 4H | 2H | 19.6 | 20.7 | 20.0 | 21.1 | 21.4 | 19.6 | 20.7 | 20.0 | 21.1 | 21.4 |
| | 3H | 20.9 | 21.8 | 21.3 | 22.2 | 22.6 | 20.9 | 21.8 | 21.3 | 22.2 | 22.6 |
| | 4H | 21.3 | 22.2 | 21.7 | 22.6 | 23.0 | 21.3 | 22.2 | 21.7 | 22.6 | 23.0 |
| | 6H | 21.6 | 22.4 | 22.1 | 22.8 | 23.3 | 21.6 | 22.4 | 22.1 | 22.8 | 23.3 |
| | 8H | 21.7 | 22.4 | 22.2 | 22.8 | 23.3 | 21.7 | 22.4 | 22.2 | 22.8 | 23.3 |
| | 12H | 21.7 | 22.3 | 22.2 | 22.8 | 23.3 | 21.7 | 22.3 | 22.2 | 22.8 | 23.3 |
| 8H | 4H | 21.4 | 22.1 | 21.9 | 22.6 | 23.0 | 21.4 | 22.1 | 21.9 | 22.6 | 23.0 |
| | 6H | 21.8 | 22.4 | 22.3 | 22.9 | 23.4 | 21.8 | 22.4 | 22.3 | 22.9 | 23.4 |
| | 8H | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 | 21.9 | 22.4 | 22.4 | 22.9 | 23.4 |
| | 12H | 22.0 | 22.4 | 22.5 | 22.9 | 23.5 | 22.0 | 22.4 | 22.5 | 22.9 | 23.5 |
| 12H | 4H | 21.4 | 22.0 | 21.9 | 22.5 | 23.0 | 21.4 | 22.0 | 21.9 | 22.5 | 23.0 |
| | 6H | 21.8 | 22.3 | 22.4 | 22.8 | 23.3 | 21.8 | 22.3 | 22.4 | 22.8 | 23.3 |
| | 8H | 22.0 | 22.4 | 22.5 | 22.9 | 23.5 | 22.0 | 22.4 | 22.5 | 22.9 | 23.5 |

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 698.079 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.)