



IES INDOOR REPORT

PHOTOMETRIC FILENAME : V6DR-L12-835-DIM-UNV-RN-OF-WH_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12326812.15

[TESTLAB] UL Verification Services Inc.

[ISSUEDATE] 9 SEP 2021

[MANUFAC] WILLIAMS INDOOR

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

[LUMCAT] V6DR-L12-835-DIM-UNV-RN-OF-WH

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

[MORE] tic optic, clear glass patterned lens enclosure

[LAMP] One white LED

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor, Architectural, Classroom, Commercial, Healthcare, Office, Downlight

[SEARCH_MOUNTING] Recessed

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1366 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 92 |
| Total Luminaire Watts | 14.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.44 |
| Spacing Criterion (90-270) | 0.44 |
| Spacing Criterion (Diagonal) | 0.46 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.48 ft (Diameter) |
| Luminous Width (90-270) | 0.48 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 | 4473 | 4473 | 4473 |
| 55 | 2926 | 2926 | 2926 |
| 65 | 1991 | 1991 | 1991 |
| 75 | 1286 | 1286 | 1286 |
| 85 | 1033 | 1033 | 1033 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 5072.746 |
| 0.5 | 5068.222 |
| 1.0 | 5053.899 |
| 1.5 | 5029.022 |
| 2.0 | 4994.344 |
| 2.5 | 4949.112 |
| 3.0 | 4894.834 |
| 3.5 | 4832.263 |
| 4.0 | 4762.154 |
| 4.5 | 4683.752 |
| 5.0 | 4598.566 |
| 5.5 | 4505.087 |
| 6.0 | 4404.069 |
| 6.5 | 4297.020 |
| 7.0 | 4183.941 |
| 7.5 | 4064.830 |
| 8.0 | 3940.443 |
| 8.5 | 3811.532 |
| 9.0 | 3677.345 |
| 9.5 | 3540.142 |
| 10.0 | 3399.169 |
| 10.5 | 3257.443 |
| 11.0 | 3114.209 |
| 11.5 | 2970.221 |
| 12.0 | 2826.987 |
| 12.5 | 2683.753 |
| 13.0 | 2543.534 |
| 13.5 | 2403.316 |
| 14.0 | 2267.621 |
| 14.5 | 2135.694 |
| 15.0 | 2006.784 |
| 15.5 | 1883.904 |
| 16.0 | 1767.055 |
| 16.5 | 1656.237 |
| 17.0 | 1549.189 |
| 17.5 | 1447.417 |
| 18.0 | 1350.923 |
| 18.5 | 1261.213 |
| 19.0 | 1176.027 |
| 19.5 | 1099.133 |
| 20.0 | 1023.746 |
| 20.5 | 952.883 |
| 21.0 | 887.297 |
| 21.5 | 826.234 |
| 22.0 | 768.187 |
| 22.5 | 713.607 |
| 23.0 | 662.947 |
| 23.5 | 615.831 |
| 24.0 | 571.881 |
| 24.5 | 530.946 |
| 25.0 | 492.876 |
| 25.5 | 457.595 |
| 26.0 | 425.028 |
| 26.5 | 394.798 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|---------|
| 27.0 | 366.905 |
| 27.5 | 341.274 |
| 28.0 | 317.678 |
| 28.5 | 295.967 |
| 29.0 | 275.989 |
| 29.5 | 257.670 |
| 30.0 | 240.709 |
| 30.5 | 225.179 |
| 31.0 | 210.931 |
| 31.5 | 197.738 |
| 32.0 | 185.601 |
| 32.5 | 174.369 |
| 33.0 | 164.041 |
| 33.5 | 154.467 |
| 34.0 | 145.646 |
| 34.5 | 137.429 |
| 35.0 | 129.815 |
| 35.5 | 122.804 |
| 36.0 | 116.321 |
| 36.5 | 110.215 |
| 37.0 | 104.636 |
| 37.5 | 99.359 |
| 38.0 | 94.534 |
| 38.5 | 90.087 |
| 39.0 | 85.940 |
| 39.5 | 82.020 |
| 40.0 | 78.477 |
| 40.5 | 75.085 |
| 41.0 | 71.994 |
| 41.5 | 69.054 |
| 42.0 | 66.340 |
| 42.5 | 63.777 |
| 43.0 | 61.364 |
| 43.5 | 59.103 |
| 44.0 | 56.917 |
| 44.5 | 54.881 |
| 45.0 | 52.997 |
| 45.5 | 51.187 |
| 46.0 | 49.453 |
| 46.5 | 47.795 |
| 47.0 | 46.212 |
| 47.5 | 44.629 |
| 48.0 | 43.196 |
| 48.5 | 41.764 |
| 49.0 | 40.482 |
| 49.5 | 39.201 |
| 50.0 | 37.995 |
| 50.5 | 36.789 |
| 51.0 | 35.658 |
| 51.5 | 34.602 |
| 52.0 | 33.547 |
| 52.5 | 32.567 |
| 53.0 | 31.587 |
| 53.5 | 30.682 |
| 54.0 | 29.778 |
| 54.5 | 28.948 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|--------|
| 55.0 | 28.119 |
| 55.5 | 27.290 |
| 56.0 | 26.536 |
| 56.5 | 25.782 |
| 57.0 | 24.953 |
| 57.5 | 24.199 |
| 58.0 | 23.521 |
| 58.5 | 22.767 |
| 59.0 | 22.088 |
| 59.5 | 21.334 |
| 60.0 | 20.656 |
| 60.5 | 19.902 |
| 61.0 | 19.224 |
| 61.5 | 18.545 |
| 62.0 | 17.867 |
| 62.5 | 17.263 |
| 63.0 | 16.585 |
| 63.5 | 15.982 |
| 64.0 | 15.303 |
| 64.5 | 14.700 |
| 65.0 | 14.097 |
| 65.5 | 13.494 |
| 66.0 | 12.966 |
| 66.5 | 12.439 |
| 67.0 | 11.911 |
| 67.5 | 11.383 |
| 68.0 | 10.856 |
| 68.5 | 10.403 |
| 69.0 | 9.951 |
| 69.5 | 9.499 |
| 70.0 | 9.046 |
| 70.5 | 8.669 |
| 71.0 | 8.217 |
| 71.5 | 7.840 |
| 72.0 | 7.463 |
| 72.5 | 7.086 |
| 73.0 | 6.785 |
| 73.5 | 6.483 |
| 74.0 | 6.182 |
| 74.5 | 5.880 |
| 75.0 | 5.579 |
| 75.5 | 5.277 |
| 76.0 | 5.051 |
| 76.5 | 4.825 |
| 77.0 | 4.599 |
| 77.5 | 4.372 |
| 78.0 | 4.146 |
| 78.5 | 3.995 |
| 79.0 | 3.769 |
| 79.5 | 3.543 |
| 80.0 | 3.392 |
| 80.5 | 3.166 |
| 81.0 | 2.940 |
| 81.5 | 2.789 |
| 82.0 | 2.563 |
| 82.5 | 2.412 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 2.262 |
| 83.5 | 2.035 |
| 84.0 | 1.885 |
| 84.5 | 1.658 |
| 85.0 | 1.508 |
| 85.5 | 1.357 |
| 86.0 | 1.206 |
| 86.5 | 1.055 |
| 87.0 | 0.905 |
| 87.5 | 0.754 |
| 88.0 | 0.603 |
| 88.5 | 0.452 |
| 89.0 | 0.377 |
| 89.5 | 0.302 |
| 90.0 | 0.226 |
| 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 : V6DR-L12-835-DIM-UNV-RN-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 |

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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 | 952.50 | N.A. | 69.70 |
| 0-30 | 1191.15 | N.A. | 87.20 |
| 0-40 | 1276.77 | N.A. | 93.50 |
| 0-60 | 1344.1 | N.A. | 98.40 |
| 0-80 | 1364.39 | N.A. | 99.90 |
| 0-90 | 1366.13 | N.A. | 100.00 |
| 10-90 | 966.13 | N.A. | 70.70 |
| 20-40 | 324.28 | N.A. | 23.70 |
| 20-50 | 366.18 | N.A. | 26.80 |
| 40-70 | 81.50 | N.A. | 6.00 |
| 60-80 | 20.29 | N.A. | 1.50 |
| 70-80 | 6.11 | N.A. | 0.40 |
| 80-90 | 1.74 | N.A. | 0.10 |
| 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 | 1366.14 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 400.00 |
| 10-20 | 552.50 |
| 20-30 | 238.66 |
| 30-40 | 85.62 |
| 40-50 | 41.91 |
| 50-60 | 25.42 |
| 60-70 | 14.18 |
| 70-80 | 6.11 |
| 80-90 | 1.74 |
| 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 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 91 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 97 | 93 | 91 | 94 | 92 | 89 | 92 | 90 | 88 | 87 |
| 4 | 102 | 96 | 91 | 88 | 100 | 95 | 90 | 87 | 93 | 89 | 86 | 91 | 88 | 85 | 89 | 86 | 84 | 83 |
| 5 | 98 | 91 | 87 | 83 | 97 | 91 | 86 | 83 | 89 | 85 | 82 | 87 | 84 | 82 | 86 | 83 | 81 | 80 |
| 6 | 95 | 88 | 83 | 80 | 94 | 87 | 83 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 80 | 78 | 77 |
| 7 | 92 | 84 | 80 | 76 | 91 | 84 | 79 | 76 | 83 | 79 | 76 | 81 | 78 | 75 | 80 | 77 | 75 | 74 |
| 8 | 89 | 81 | 77 | 73 | 88 | 81 | 76 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 72 | 71 |
| 9 | 86 | 78 | 74 | 71 | 85 | 78 | 74 | 71 | 77 | 73 | 70 | 76 | 73 | 70 | 76 | 72 | 70 | 69 |
| 10 | 83 | 76 | 71 | 68 | 83 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 70 | 68 | 73 | 70 | 68 | 67 |

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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 | 7.9 | 8.8 | 8.2 | 9.1 | 9.5 | 7.9 | 8.8 | 8.2 | 9.1 | 9.5 |
| | 3H | 8.7 | 9.6 | 9.1 | 9.9 | 10.3 | 8.7 | 9.6 | 9.1 | 9.9 | 10.3 |
| | 4H | 9.0 | 9.8 | 9.4 | 10.1 | 10.5 | 9.0 | 9.8 | 9.4 | 10.1 | 10.5 |
| | 6H | 9.1 | 9.9 | 9.6 | 10.2 | 10.6 | 9.1 | 9.9 | 9.6 | 10.2 | 10.6 |
| | 8H | 9.2 | 9.9 | 9.6 | 10.3 | 10.7 | 9.2 | 9.9 | 9.6 | 10.3 | 10.7 |
| | 12H | 9.2 | 9.8 | 9.6 | 10.2 | 10.7 | 9.2 | 9.8 | 9.6 | 10.2 | 10.7 |

UGR Viewed Endwise

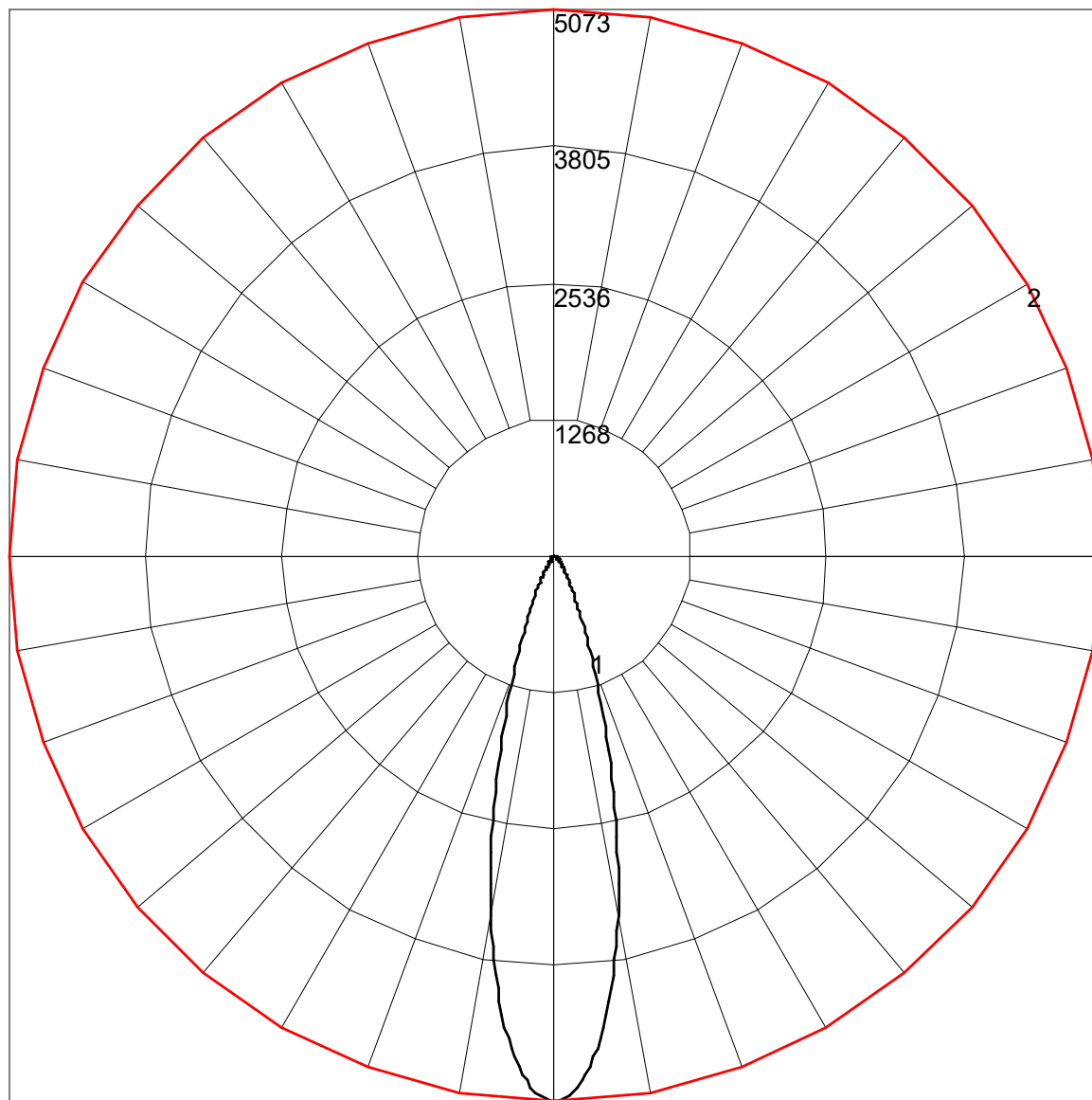
| | | | | | | | | | | | |
|----|-----|-----|------|------|------|------|-----|------|------|------|------|
| 4H | 2H | 8.1 | 8.9 | 8.5 | 9.2 | 9.6 | 8.1 | 8.9 | 8.5 | 9.2 | 9.6 |
| | 3H | 9.1 | 9.8 | 9.5 | 10.2 | 10.6 | 9.1 | 9.8 | 9.5 | 10.2 | 10.6 |
| | 4H | 9.5 | 10.0 | 9.9 | 10.4 | 10.9 | 9.5 | 10.0 | 9.9 | 10.4 | 10.9 |
| | 6H | 9.7 | 10.2 | 10.2 | 10.6 | 11.1 | 9.7 | 10.2 | 10.2 | 10.6 | 11.1 |
| | 8H | 9.8 | 10.2 | 10.3 | 10.7 | 11.2 | 9.8 | 10.2 | 10.3 | 10.7 | 11.2 |
| | 12H | 9.8 | 10.2 | 10.3 | 10.7 | 11.2 | 9.8 | 10.2 | 10.3 | 10.7 | 11.2 |

| | | | | | | | | | | | |
|----|-----|------|------|------|------|------|------|------|------|------|------|
| 8H | 4H | 9.5 | 9.9 | 10.0 | 10.4 | 10.9 | 9.5 | 9.9 | 10.0 | 10.4 | 10.9 |
| | 6H | 9.8 | 10.2 | 10.4 | 10.7 | 11.2 | 9.8 | 10.2 | 10.4 | 10.7 | 11.2 |
| | 8H | 10.0 | 10.3 | 10.5 | 10.8 | 11.3 | 10.0 | 10.3 | 10.5 | 10.8 | 11.3 |
| | 12H | 10.1 | 10.4 | 10.6 | 10.9 | 11.4 | 10.1 | 10.4 | 10.6 | 10.9 | 11.4 |

| | | | | | | | | | | | |
|-----|----|------|------|------|------|------|------|------|------|------|------|
| 12H | 4H | 9.5 | 9.8 | 9.9 | 10.3 | 10.8 | 9.5 | 9.8 | 9.9 | 10.3 | 10.8 |
| | 6H | 9.8 | 10.2 | 10.4 | 10.6 | 11.2 | 9.8 | 10.2 | 10.4 | 10.6 | 11.2 |
| | 8H | 10.0 | 10.3 | 10.5 | 10.8 | 11.4 | 10.0 | 10.3 | 10.5 | 10.8 | 11.4 |

Maximum UGR = 11.4

POLAR GRAPH



Maximum Candela = 5072.746 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.)