



IES INDOOR REPORT

PHOTOMETRIC FILENAME : 4CR-L20-935-XXX-DIM-UNV-OW-OF-CS-XX_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 13131414.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 01/25/2021
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO. 64836
 [LUMCAT] 4CR-L20-935-xxx-DIM-UNV-OW-OF-CS-xx
 [LUMINAIRE] Aluminum housing and reflector, no enclosure
 [LAMP] One white LED
 [_SEARCH_SOURCETYPE] LED
 [_SEARCH_APPLICATION] Indoor, Downlight
 [_SEARCH_MOUNTING] Pendant, Surface, Suspended, Wall

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1692 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 71 |
| Total Luminaire Watts | 23.9 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.16 |
| Spacing Criterion (90-270) | 1.16 |
| Spacing Criterion (Diagonal) | 1.04 |
| 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 | 45914 | 45914 | 45914 |
| 55 | 13068 | 13068 | 13068 |
| 65 | 5929 | 5929 | 5929 |
| 75 | 1837 | 1837 | 1837 |
| 85 | 497 | 497 | 497 |

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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 1372.575 |
| 0.5 | 1372.575 |
| 1.0 | 1372.575 |
| 1.5 | 1373.257 |
| 2.0 | 1373.940 |
| 2.5 | 1374.622 |
| 3.0 | 1375.305 |
| 3.5 | 1377.352 |
| 4.0 | 1380.082 |
| 4.5 | 1383.495 |
| 5.0 | 1387.590 |
| 5.5 | 1392.368 |
| 6.0 | 1396.463 |
| 6.5 | 1401.923 |
| 7.0 | 1407.384 |
| 7.5 | 1412.844 |
| 8.0 | 1418.987 |
| 8.5 | 1423.765 |
| 9.0 | 1427.860 |
| 9.5 | 1430.590 |
| 10.0 | 1433.320 |
| 10.5 | 1435.368 |
| 11.0 | 1436.733 |
| 11.5 | 1437.415 |
| 12.0 | 1436.733 |
| 12.5 | 1436.050 |
| 13.0 | 1434.003 |
| 13.5 | 1431.955 |
| 14.0 | 1429.225 |
| 14.5 | 1427.177 |
| 15.0 | 1424.447 |
| 15.5 | 1421.717 |
| 16.0 | 1418.304 |
| 16.5 | 1416.257 |
| 17.0 | 1413.527 |
| 17.5 | 1411.479 |
| 18.0 | 1410.114 |
| 18.5 | 1408.066 |
| 19.0 | 1404.654 |
| 19.5 | 1398.511 |
| 20.0 | 1392.368 |
| 20.5 | 1384.178 |
| 21.0 | 1374.622 |
| 21.5 | 1364.384 |
| 22.0 | 1354.146 |
| 22.5 | 1341.861 |
| 23.0 | 1328.892 |
| 23.5 | 1314.559 |
| 24.0 | 1300.226 |
| 24.5 | 1285.210 |
| 25.0 | 1268.829 |
| 25.5 | 1251.084 |
| 26.0 | 1231.973 |
| 26.5 | 1210.814 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|------|----------|
| 27.0 | 1188.291 |
| 27.5 | 1162.354 |
| 28.0 | 1137.783 |
| 28.5 | 1111.847 |
| 29.0 | 1086.593 |
| 29.5 | 1061.339 |
| 30.0 | 1034.721 |
| 30.5 | 1007.419 |
| 31.0 | 979.435 |
| 31.5 | 950.769 |
| 32.0 | 923.468 |
| 32.5 | 894.801 |
| 33.0 | 865.452 |
| 33.5 | 836.103 |
| 34.0 | 805.389 |
| 34.5 | 774.675 |
| 35.0 | 743.279 |
| 35.5 | 710.517 |
| 36.0 | 676.595 |
| 36.5 | 641.035 |
| 37.0 | 603.018 |
| 37.5 | 562.680 |
| 38.0 | 520.978 |
| 38.5 | 478.456 |
| 39.0 | 436.139 |
| 39.5 | 395.119 |
| 40.0 | 356.078 |
| 40.5 | 319.357 |
| 41.0 | 285.094 |
| 41.5 | 253.083 |
| 42.0 | 223.188 |
| 42.5 | 195.751 |
| 43.0 | 170.975 |
| 43.5 | 149.134 |
| 44.0 | 130.705 |
| 44.5 | 115.348 |
| 45.0 | 102.585 |
| 45.5 | 92.005 |
| 46.0 | 83.201 |
| 46.5 | 75.693 |
| 47.0 | 69.345 |
| 47.5 | 63.885 |
| 48.0 | 59.107 |
| 48.5 | 54.876 |
| 49.0 | 51.122 |
| 49.5 | 47.777 |
| 50.0 | 44.638 |
| 50.5 | 41.839 |
| 51.0 | 39.246 |
| 51.5 | 36.857 |
| 52.0 | 34.673 |
| 52.5 | 32.557 |
| 53.0 | 30.577 |
| 53.5 | 28.666 |
| 54.0 | 26.892 |
| 54.5 | 25.185 |

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CANDELA TABULATION - (Cont.)

| | |
|------|--------|
| 55.0 | 23.684 |
| 55.5 | 22.319 |
| 56.0 | 21.090 |
| 56.5 | 19.930 |
| 57.0 | 18.906 |
| 57.5 | 17.951 |
| 58.0 | 17.063 |
| 58.5 | 16.244 |
| 59.0 | 15.494 |
| 59.5 | 14.674 |
| 60.0 | 13.992 |
| 60.5 | 13.241 |
| 61.0 | 12.627 |
| 61.5 | 11.944 |
| 62.0 | 11.330 |
| 62.5 | 10.716 |
| 63.0 | 10.170 |
| 63.5 | 9.555 |
| 64.0 | 9.009 |
| 64.5 | 8.463 |
| 65.0 | 7.917 |
| 65.5 | 7.440 |
| 66.0 | 6.962 |
| 66.5 | 6.416 |
| 67.0 | 6.006 |
| 67.5 | 5.529 |
| 68.0 | 5.119 |
| 68.5 | 4.778 |
| 69.0 | 4.368 |
| 69.5 | 4.027 |
| 70.0 | 3.686 |
| 70.5 | 3.413 |
| 71.0 | 3.140 |
| 71.5 | 2.867 |
| 72.0 | 2.594 |
| 72.5 | 2.389 |
| 73.0 | 2.184 |
| 73.5 | 1.979 |
| 74.0 | 1.843 |
| 74.5 | 1.638 |
| 75.0 | 1.502 |
| 75.5 | 1.365 |
| 76.0 | 1.229 |
| 76.5 | 1.160 |
| 77.0 | 1.024 |
| 77.5 | 0.887 |
| 78.0 | 0.819 |
| 78.5 | 0.751 |
| 79.0 | 0.683 |
| 79.5 | 0.614 |
| 80.0 | 0.546 |
| 80.5 | 0.478 |
| 81.0 | 0.410 |
| 81.5 | 0.410 |
| 82.0 | 0.341 |
| 82.5 | 0.273 |

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CANDELA TABULATION - (Cont.)

| | |
|-------|-------|
| 83.0 | 0.273 |
| 83.5 | 0.205 |
| 84.0 | 0.205 |
| 84.5 | 0.205 |
| 85.0 | 0.137 |
| 85.5 | 0.137 |
| 86.0 | 0.137 |
| 86.5 | 0.068 |
| 87.0 | 0.068 |
| 87.5 | 0.068 |
| 88.0 | 0.068 |
| 88.5 | 0.068 |
| 89.0 | 0.068 |
| 89.5 | 0.068 |
| 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 : 4CR-L20-935-XXX-DIM-UNV-OW-OF-CS-XX_.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 : 4CR-L20-935-XXX-DIM-UNV-OW-OF-CS-XX_.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 |
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| 154.0 | 0.000 |
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| 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
PHOTOMETRIC FILENAME : 4CR-L20-935-XXX-DIM-UNV-OW-OF-CS-XX_.IES

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 | 536.69 | N.A. | 31.70 |
| 0-30 | 1109.48 | N.A. | 65.60 |
| 0-40 | 1556.18 | N.A. | 92.00 |
| 0-60 | 1681.86 | N.A. | 99.40 |
| 0-80 | 1691.75 | N.A. | 100.00 |
| 0-90 | 1691.97 | N.A. | 100.00 |
| 10-90 | 1557.77 | N.A. | 92.10 |
| 20-40 | 1019.49 | N.A. | 60.30 |
| 20-50 | 1122.43 | N.A. | 66.30 |
| 40-70 | 133.78 | N.A. | 7.90 |
| 60-80 | 9.89 | N.A. | 0.60 |
| 70-80 | 1.80 | N.A. | 0.10 |
| 80-90 | 0.22 | 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 | 1691.97 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 134.19 |
| 10-20 | 402.50 |
| 20-30 | 572.79 |
| 30-40 | 446.70 |
| 40-50 | 102.94 |
| 50-60 | 22.75 |
| 60-70 | 8.09 |
| 70-80 | 1.80 |
| 80-90 | 0.22 |
| 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 | 100 | 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 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 96 | 88 | 83 | 78 | 94 | 87 | 82 | 78 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 73 |
| 5 | 91 | 82 | 76 | 72 | 89 | 81 | 76 | 71 | 79 | 74 | 71 | 78 | 73 | 70 | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 64 | 63 |
| 7 | 81 | 72 | 65 | 61 | 80 | 71 | 65 | 61 | 70 | 64 | 61 | 69 | 64 | 60 | 67 | 63 | 60 | 58 |
| 8 | 77 | 67 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 60 | 56 | 64 | 60 | 56 | 63 | 59 | 56 | 54 |
| 9 | 73 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 51 |
| 10 | 70 | 59 | 53 | 49 | 68 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 57 | 52 | 49 | 47 |

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UGR TABLE - CORRECTED

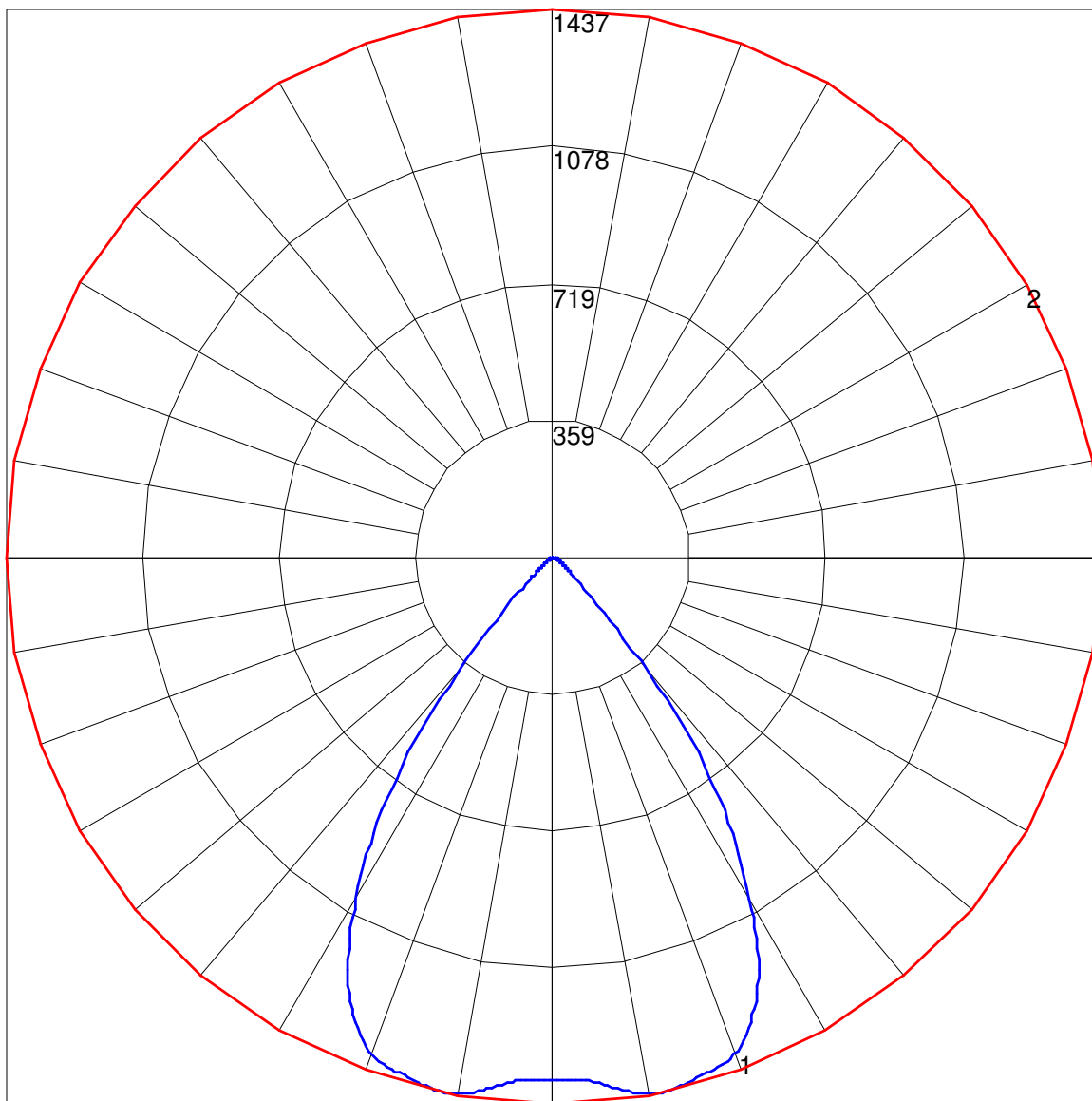
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 10.6 | 11.6 | 11.0 | 12.0 | 12.3 | 10.6 | 11.6 | 11.0 | 12.0 | 12.3 |
| | 3H | 10.9 | 11.8 | 11.3 | 12.1 | 12.5 | 10.9 | 11.8 | 11.3 | 12.1 | 12.5 |
| | 4H | 10.9 | 11.7 | 11.3 | 12.0 | 12.4 | 10.9 | 11.7 | 11.3 | 12.0 | 12.4 |
| | 6H | 10.8 | 11.5 | 11.2 | 11.9 | 12.3 | 10.8 | 11.5 | 11.2 | 11.9 | 12.3 |
| | 8H | 10.8 | 11.4 | 11.2 | 11.8 | 12.2 | 10.8 | 11.4 | 11.2 | 11.8 | 12.2 |
| | 12H | 10.7 | 11.4 | 11.1 | 11.7 | 12.2 | 10.7 | 11.4 | 11.1 | 11.7 | 12.2 |
| 4H | 2H | 10.7 | 11.5 | 11.1 | 11.9 | 12.2 | 10.7 | 11.5 | 11.1 | 11.9 | 12.2 |
| | 3H | 11.0 | 11.7 | 11.4 | 12.1 | 12.5 | 11.0 | 11.7 | 11.4 | 12.1 | 12.5 |
| | 4H | 11.0 | 11.6 | 11.4 | 12.0 | 12.4 | 11.0 | 11.6 | 11.4 | 12.0 | 12.4 |
| | 6H | 10.9 | 11.4 | 11.4 | 11.8 | 12.3 | 10.9 | 11.4 | 11.4 | 11.8 | 12.3 |
| | 8H | 10.8 | 11.3 | 11.3 | 11.7 | 12.2 | 10.8 | 11.3 | 11.3 | 11.7 | 12.2 |
| | 12H | 10.8 | 11.2 | 11.3 | 11.7 | 12.1 | 10.8 | 11.2 | 11.3 | 11.7 | 12.1 |
| 8H | 4H | 10.8 | 11.3 | 11.3 | 11.8 | 12.2 | 10.8 | 11.3 | 11.3 | 11.8 | 12.2 |
| | 6H | 10.7 | 11.1 | 11.3 | 11.6 | 12.1 | 10.7 | 11.1 | 11.3 | 11.6 | 12.1 |
| | 8H | 10.7 | 11.0 | 11.2 | 11.5 | 12.0 | 10.7 | 11.0 | 11.2 | 11.5 | 12.0 |
| | 12H | 10.6 | 10.9 | 11.1 | 11.4 | 12.0 | 10.6 | 10.9 | 11.1 | 11.4 | 12.0 |
| 12H | 4H | 10.8 | 11.2 | 11.3 | 11.7 | 12.1 | 10.8 | 11.2 | 11.3 | 11.7 | 12.1 |
| | 6H | 10.7 | 11.0 | 11.2 | 11.5 | 12.0 | 10.7 | 11.0 | 11.2 | 11.5 | 12.0 |
| | 8H | 10.6 | 10.9 | 11.1 | 11.4 | 12.0 | 10.6 | 10.9 | 11.1 | 11.4 | 12.0 |

Maximum UGR = 12.5

POLAR GRAPH



Maximum Candela = 1437.415 Located At Horizontal Angle = 0, Vertical Angle = 11.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (11.5) (Through Max. Cd.)