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IES INDOOR REPORT

PHOTOMETRIC FILENAME : FSN OPAL 14 BOWL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LLI-18210-3

[TESTLAB] LightLab International (www.LightLabInternational.com)

[MANUFAC] Justice Design Group, Los Angeles, CA 90071

[LUMCAT] Artisan Glass (FSN) - Opal Glass (OPAL) 14" Bowl

[LUMINAIRE] Justice Design Group - Pendant mount luminaire. Product ID: FSN OPAL 14" Bowl

[MORE] Extruded base plate with frosted glass bowl lens.

[MORE] 42 LEDs with 21 in each of two arrays with white plastic lenses.

[MORE] No driver.

[MORE] Operating at 120 VAC and 60 Hz.

[OTHER] Absolute test - lamp lumens value set to -1

[MORE] NA conventions used for C0 plane alignment and C-plane rotation direction.

[MORE] The sample was tested at a distance of 8m.

[MORE] This IES file created by LightLab/LSA Report program version 3.820a.

[DATE] This file created: Monday, August 6, 2018 2:20:59 PM

[ISSUEDATE] Monday, August 6, 2018 2:20:59 PM

CHARACTERISTICS

| | |
|---------------------------------|-------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1449 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 64 |
| Total Luminaire Watts | 22.7 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.36 m (Diameter) |
| Luminous Width (90-270) | 0.36 m (Diameter) |
| Luminous Height | 0.10 m |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1603 | 1603 | 1603 |
| 55 | 1443 | 1443 | 1443 |
| 65 | 1277 | 1277 | 1277 |
| 75 | 1111 | 1111 | 1111 |
| 85 | 971 | 971 | 971 |

IES INDOOR REPORT
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CANDELA TABULATION

| | <u>0</u> |
|------|----------|
| 0.0 | 225.796 |
| 0.5 | 225.785 |
| 1.0 | 225.764 |
| 1.5 | 225.710 |
| 2.0 | 225.636 |
| 2.5 | 225.529 |
| 3.0 | 225.433 |
| 3.5 | 225.304 |
| 4.0 | 225.144 |
| 4.5 | 224.995 |
| 5.0 | 224.802 |
| 5.5 | 224.610 |
| 6.0 | 224.354 |
| 6.5 | 224.119 |
| 7.0 | 223.841 |
| 7.5 | 223.552 |
| 8.0 | 223.243 |
| 8.5 | 222.911 |
| 9.0 | 222.559 |
| 9.5 | 222.206 |
| 10.0 | 221.822 |
| 10.5 | 221.448 |
| 11.0 | 221.031 |
| 11.5 | 220.572 |
| 12.0 | 220.123 |
| 12.5 | 219.653 |
| 13.0 | 219.151 |
| 13.5 | 218.638 |
| 14.0 | 218.115 |
| 14.5 | 217.559 |
| 15.0 | 216.993 |
| 15.5 | 216.406 |
| 16.0 | 215.775 |
| 16.5 | 215.145 |
| 17.0 | 214.504 |
| 17.5 | 213.842 |
| 18.0 | 213.137 |
| 18.5 | 212.464 |
| 19.0 | 211.716 |
| 19.5 | 210.979 |
| 20.0 | 210.231 |
| 20.5 | 209.451 |
| 21.0 | 208.660 |
| 21.5 | 207.838 |
| 22.0 | 207.015 |
| 22.5 | 206.161 |
| 23.0 | 205.317 |
| 23.5 | 204.419 |
| 24.0 | 203.511 |
| 24.5 | 202.614 |
| 25.0 | 201.706 |
| 25.5 | 200.744 |
| 26.0 | 199.772 |
| 26.5 | 198.821 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN OPAL 14 BOWL.IES

CANDELA TABULATION - (Cont.)

| | |
|-------------|---------|
| 27.0 | 197.806 |
| 27.5 | 196.834 |
| 28.0 | 195.809 |
| 28.5 | 194.772 |
| 29.0 | 193.736 |
| 29.5 | 192.679 |
| 30.0 | 191.610 |
| 30.5 | 190.499 |
| 31.0 | 189.410 |
| 31.5 | 188.277 |
| 32.0 | 187.188 |
| 32.5 | 186.034 |
| 33.0 | 184.869 |
| 33.5 | 183.716 |
| 34.0 | 182.540 |
| 34.5 | 181.344 |
| 35.0 | 180.126 |
| 35.5 | 178.919 |
| 36.0 | 177.701 |
| 36.5 | 176.472 |
| 37.0 | 175.233 |
| 37.5 | 173.973 |
| 38.0 | 172.723 |
| 38.5 | 171.430 |
| 39.0 | 170.159 |
| 39.5 | 168.866 |
| 40.0 | 167.552 |
| 40.5 | 166.227 |
| 41.0 | 164.946 |
| 41.5 | 163.589 |
| 42.0 | 162.232 |
| 42.5 | 160.897 |
| 43.0 | 159.540 |
| 43.5 | 158.183 |
| 44.0 | 156.794 |
| 44.5 | 155.427 |
| 45.0 | 154.049 |
| 45.5 | 152.681 |
| 46.0 | 151.303 |
| 46.5 | 149.882 |
| 47.0 | 148.483 |
| 47.5 | 147.051 |
| 48.0 | 145.663 |
| 48.5 | 144.210 |
| 49.0 | 142.800 |
| 49.5 | 141.347 |
| 50.0 | 139.979 |
| 50.5 | 138.516 |
| 51.0 | 137.052 |
| 51.5 | 135.621 |
| 52.0 | 134.136 |
| 52.5 | 132.704 |
| 53.0 | 131.219 |
| 53.5 | 129.766 |
| 54.0 | 128.281 |
| 54.5 | 126.850 |

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CANDELA TABULATION - (Cont.)

| | |
|-------------|---------|
| 55.0 | 125.365 |
| 55.5 | 123.891 |
| 56.0 | 122.416 |
| 56.5 | 120.921 |
| 57.0 | 119.436 |
| 57.5 | 117.951 |
| 58.0 | 116.466 |
| 58.5 | 114.970 |
| 59.0 | 113.550 |
| 59.5 | 112.043 |
| 60.0 | 110.548 |
| 60.5 | 109.084 |
| 61.0 | 107.578 |
| 61.5 | 106.082 |
| 62.0 | 104.587 |
| 62.5 | 103.123 |
| 63.0 | 101.617 |
| 63.5 | 100.185 |
| 64.0 | 98.690 |
| 64.5 | 97.226 |
| 65.0 | 95.762 |
| 65.5 | 94.267 |
| 66.0 | 92.835 |
| 66.5 | 91.382 |
| 67.0 | 89.919 |
| 67.5 | 88.466 |
| 68.0 | 87.066 |
| 68.5 | 85.614 |
| 69.0 | 84.193 |
| 69.5 | 82.783 |
| 70.0 | 81.351 |
| 70.5 | 79.952 |
| 71.0 | 78.531 |
| 71.5 | 77.131 |
| 72.0 | 75.732 |
| 72.5 | 74.396 |
| 73.0 | 72.997 |
| 73.5 | 71.651 |
| 74.0 | 70.305 |
| 74.5 | 68.937 |
| 75.0 | 67.634 |
| 75.5 | 66.299 |
| 76.0 | 64.985 |
| 76.5 | 63.671 |
| 77.0 | 62.410 |
| 77.5 | 61.117 |
| 78.0 | 59.835 |
| 78.5 | 58.596 |
| 79.0 | 57.346 |
| 79.5 | 56.118 |
| 80.0 | 54.900 |
| 80.5 | 53.703 |
| 81.0 | 52.507 |
| 81.5 | 51.353 |
| 82.0 | 50.178 |
| 82.5 | 49.046 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|--------------|--------|
| 83.0 | 47.945 |
| 83.5 | 46.802 |
| 84.0 | 45.734 |
| 84.5 | 44.634 |
| 85.0 | 43.587 |
| 85.5 | 42.540 |
| 86.0 | 41.546 |
| 86.5 | 40.521 |
| 87.0 | 39.538 |
| 87.5 | 38.576 |
| 88.0 | 37.604 |
| 88.5 | 36.707 |
| 89.0 | 35.788 |
| 89.5 | 34.923 |
| 90.0 | 34.196 |
| 90.5 | 33.619 |
| 91.0 | 33.149 |
| 91.5 | 32.743 |
| 92.0 | 32.412 |
| 92.5 | 32.060 |
| 93.0 | 31.771 |
| 93.5 | 31.504 |
| 94.0 | 31.258 |
| 94.5 | 31.088 |
| 95.0 | 31.120 |
| 95.5 | 31.440 |
| 96.0 | 32.124 |
| 96.5 | 33.149 |
| 97.0 | 34.431 |
| 97.5 | 35.948 |
| 98.0 | 37.423 |
| 98.5 | 38.843 |
| 99.0 | 40.339 |
| 99.5 | 41.728 |
| 100.0 | 43.159 |
| 100.5 | 44.719 |
| 101.0 | 46.321 |
| 101.5 | 48.031 |
| 102.0 | 49.708 |
| 102.5 | 51.439 |
| 103.0 | 53.073 |
| 103.5 | 54.740 |
| 104.0 | 56.342 |
| 104.5 | 57.977 |
| 105.0 | 59.611 |
| 105.5 | 61.224 |
| 106.0 | 62.859 |
| 106.5 | 64.472 |
| 107.0 | 66.106 |
| 107.5 | 67.677 |
| 108.0 | 69.311 |
| 108.5 | 70.860 |
| 109.0 | 72.441 |
| 109.5 | 73.990 |
| 110.0 | 75.561 |
| 110.5 | 77.163 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|--------------|---------|
| 111.0 | 78.808 |
| 111.5 | 80.496 |
| 112.0 | 82.163 |
| 112.5 | 83.936 |
| 113.0 | 85.656 |
| 113.5 | 87.483 |
| 114.0 | 89.374 |
| 114.5 | 91.276 |
| 115.0 | 93.231 |
| 115.5 | 95.186 |
| 116.0 | 97.194 |
| 116.5 | 99.202 |
| 117.0 | 101.328 |
| 117.5 | 103.379 |
| 118.0 | 105.495 |
| 118.5 | 107.674 |
| 119.0 | 109.853 |
| 119.5 | 112.043 |
| 120.0 | 114.223 |
| 120.5 | 116.455 |
| 121.0 | 118.656 |
| 121.5 | 120.910 |
| 122.0 | 123.100 |
| 122.5 | 125.354 |
| 123.0 | 127.576 |
| 123.5 | 129.745 |
| 124.0 | 131.946 |
| 124.5 | 134.114 |
| 125.0 | 136.262 |
| 125.5 | 138.345 |
| 126.0 | 140.407 |
| 126.5 | 142.362 |
| 127.0 | 144.317 |
| 127.5 | 146.250 |
| 128.0 | 148.120 |
| 128.5 | 149.915 |
| 129.0 | 151.720 |
| 129.5 | 153.451 |
| 130.0 | 155.128 |
| 130.5 | 156.752 |
| 131.0 | 158.279 |
| 131.5 | 159.839 |
| 132.0 | 161.324 |
| 132.5 | 162.723 |
| 133.0 | 164.102 |
| 133.5 | 165.405 |
| 134.0 | 166.687 |
| 134.5 | 167.905 |
| 135.0 | 169.048 |
| 135.5 | 170.159 |
| 136.0 | 171.206 |
| 136.5 | 172.242 |
| 137.0 | 173.203 |
| 137.5 | 174.122 |
| 138.0 | 174.998 |
| 138.5 | 175.864 |

IES INDOOR REPORT
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CANDELA TABULATION - (Cont.)

| | |
|--------------|---------|
| 139.0 | 176.643 |
| 139.5 | 177.370 |
| 140.0 | 178.107 |
| 140.5 | 178.748 |
| 141.0 | 179.389 |
| 141.5 | 179.977 |
| 142.0 | 180.521 |
| 142.5 | 181.066 |
| 143.0 | 181.547 |
| 143.5 | 182.006 |
| 144.0 | 182.476 |
| 144.5 | 182.861 |
| 145.0 | 183.267 |
| 145.5 | 183.598 |
| 146.0 | 183.972 |
| 146.5 | 184.292 |
| 147.0 | 184.602 |
| 147.5 | 184.880 |
| 148.0 | 185.147 |
| 148.5 | 185.414 |
| 149.0 | 185.703 |
| 149.5 | 185.970 |
| 150.0 | 186.226 |
| 150.5 | 186.482 |
| 151.0 | 186.760 |
| 151.5 | 187.006 |
| 152.0 | 187.273 |
| 152.5 | 187.540 |
| 153.0 | 187.786 |
| 153.5 | 188.010 |
| 154.0 | 188.245 |
| 154.5 | 188.469 |
| 155.0 | 188.672 |
| 155.5 | 188.907 |
| 156.0 | 189.132 |
| 156.5 | 189.356 |
| 157.0 | 189.581 |
| 157.5 | 189.773 |
| 158.0 | 190.019 |
| 158.5 | 190.232 |
| 159.0 | 190.457 |
| 159.5 | 190.702 |
| 160.0 | 190.937 |
| 160.5 | 191.183 |
| 161.0 | 191.407 |
| 161.5 | 191.632 |
| 162.0 | 191.856 |
| 162.5 | 192.123 |
| 163.0 | 192.358 |
| 163.5 | 192.647 |
| 164.0 | 192.946 |
| 164.5 | 193.095 |
| 165.0 | 193.063 |
| 165.5 | 192.882 |
| 166.0 | 192.412 |
| 166.5 | 191.610 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : FSN OPAL 14 BOWL.IES

CANDELA TABULATION - (Cont.)

| | |
|--------------|---------|
| 167.0 | 190.595 |
| 167.5 | 189.121 |
| 168.0 | 187.369 |
| 168.5 | 185.457 |
| 169.0 | 183.171 |
| 169.5 | 180.682 |
| 170.0 | 177.979 |
| 170.5 | 175.084 |
| 171.0 | 171.975 |
| 171.5 | 168.888 |
| 172.0 | 165.629 |
| 172.5 | 162.328 |
| 173.0 | 158.984 |
| 173.5 | 155.342 |
| 174.0 | 151.367 |
| 174.5 | 146.902 |
| 175.0 | 142.169 |
| 175.5 | 136.924 |
| 176.0 | 131.369 |
| 176.5 | 125.087 |
| 177.0 | 118.036 |
| 177.5 | 110.644 |
| 178.0 | 102.033 |
| 178.5 | 92.654 |
| 179.0 | 83.231 |
| 179.5 | 74.610 |
| 180.0 | 67.442 |

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 82.60 | N.A. | 5.70 |
| 0-30 | 175.57 | N.A. | 12.10 |
| 0-40 | 288.30 | N.A. | 19.90 |
| 0-60 | 519.38 | N.A. | 35.80 |
| 0-80 | 685.90 | N.A. | 47.30 |
| 0-90 | 733.76 | N.A. | 50.60 |
| 10-90 | 712.40 | N.A. | 49.20 |
| 20-40 | 205.70 | N.A. | 14.20 |
| 20-50 | 324.62 | N.A. | 22.40 |
| 40-70 | 326.00 | N.A. | 22.50 |
| 60-80 | 166.52 | N.A. | 11.50 |
| 70-80 | 71.61 | N.A. | 4.90 |
| 80-90 | 47.86 | N.A. | 3.30 |
| 90-110 | 100.17 | N.A. | 6.90 |
| 90-120 | 193.01 | N.A. | 13.30 |
| 90-130 | 314.36 | N.A. | 21.70 |
| 90-150 | 559.17 | N.A. | 38.60 |
| 90-180 | 715.02 | N.A. | 49.40 |
| 110-180 | 614.85 | N.A. | 42.40 |
| 0-180 | 1448.78 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 21.36 |
| 10-20 | 61.24 |
| 20-30 | 92.97 |
| 30-40 | 112.73 |
| 40-50 | 118.92 |
| 50-60 | 112.16 |
| 60-70 | 94.92 |
| 70-80 | 71.61 |
| 80-90 | 47.86 |
| 90-100 | 37.34 |
| 100-110 | 62.83 |
| 110-120 | 92.84 |
| 120-130 | 121.35 |
| 130-140 | 130.02 |
| 140-150 | 114.78 |
| 150-160 | 87.25 |
| 160-170 | 54.01 |
| 170-180 | 14.59 |

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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 84 | 84 | 84 | 70 | 70 | 70 | 57 | 57 | 57 | 51 |
| 1 | 97 | 92 | 87 | 83 | 89 | 85 | 81 | 77 | 71 | 69 | 66 | 59 | 57 | 55 | 48 | 47 | 45 | 40 |
| 2 | 87 | 79 | 73 | 67 | 80 | 73 | 67 | 62 | 62 | 57 | 54 | 51 | 48 | 45 | 42 | 39 | 37 | 32 |
| 3 | 79 | 69 | 61 | 55 | 73 | 64 | 57 | 52 | 54 | 49 | 44 | 45 | 41 | 38 | 36 | 34 | 31 | 27 |
| 4 | 72 | 61 | 53 | 46 | 66 | 56 | 49 | 43 | 48 | 42 | 38 | 40 | 35 | 32 | 32 | 29 | 26 | 23 |
| 5 | 66 | 54 | 46 | 39 | 61 | 50 | 43 | 37 | 43 | 37 | 32 | 36 | 31 | 27 | 29 | 26 | 23 | 20 |
| 6 | 61 | 49 | 40 | 34 | 56 | 45 | 37 | 32 | 38 | 32 | 28 | 32 | 27 | 24 | 26 | 23 | 20 | 17 |
| 7 | 56 | 44 | 36 | 30 | 52 | 41 | 33 | 28 | 35 | 29 | 24 | 29 | 24 | 21 | 24 | 20 | 18 | 15 |
| 8 | 52 | 40 | 32 | 26 | 48 | 37 | 30 | 25 | 32 | 26 | 22 | 27 | 22 | 19 | 22 | 18 | 16 | 13 |
| 9 | 49 | 36 | 28 | 23 | 45 | 34 | 27 | 22 | 29 | 23 | 19 | 24 | 20 | 17 | 20 | 17 | 14 | 12 |
| 10 | 45 | 33 | 26 | 21 | 42 | 31 | 24 | 20 | 27 | 21 | 17 | 23 | 18 | 15 | 19 | 15 | 13 | 11 |

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UGR TABLE - CORRECTED

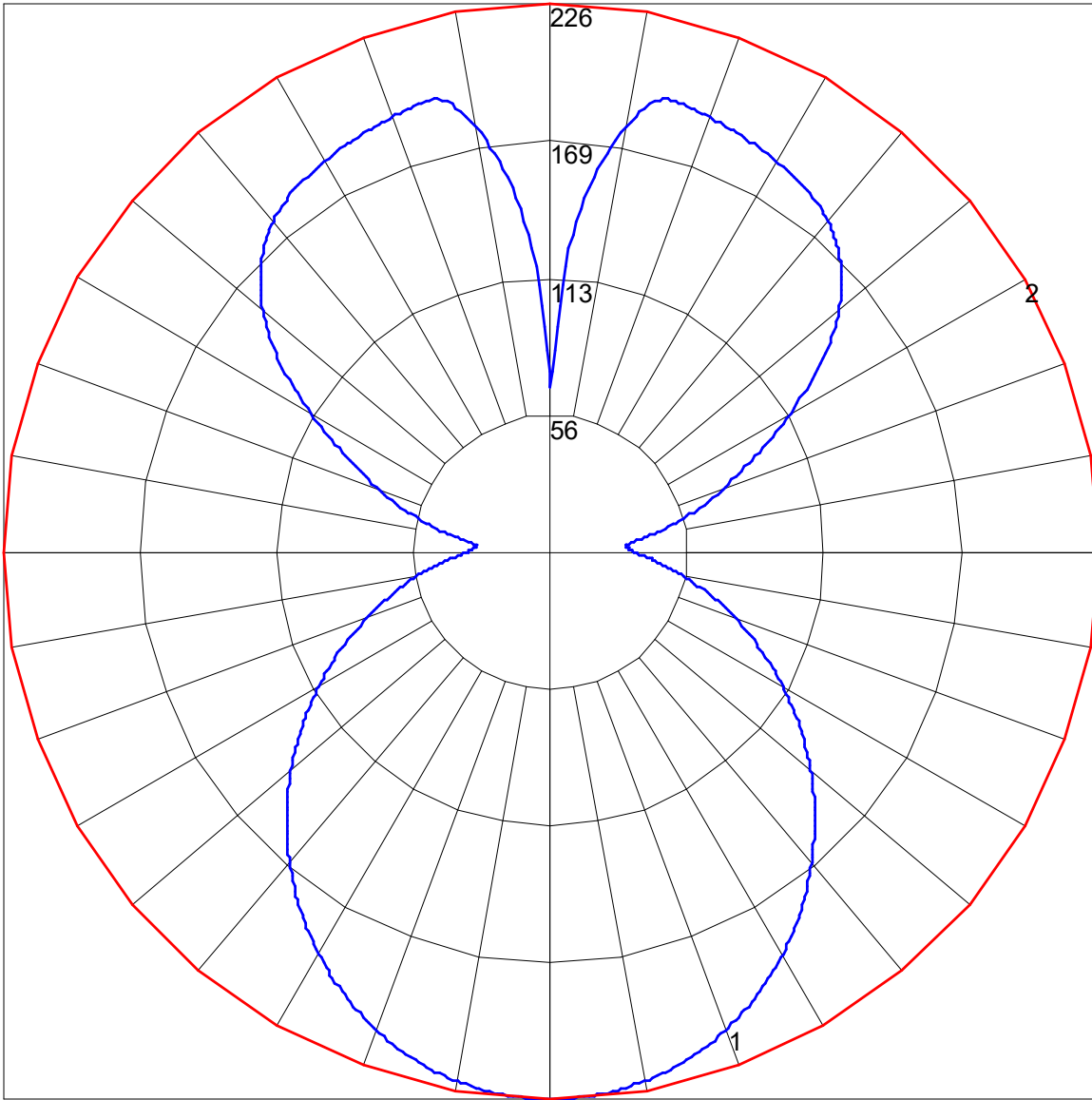
Reflectances

| | | | | | | | | | | |
|----------------|----|----|----|----|----|----|----|----|----|----|
| 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 | 8.7 | 9.6 | 9.6 | 10.5 | 11.8 | 8.7 | 9.6 | 9.6 | 10.5 | 11.8 |
| | 3H | 10.6 | 11.5 | 11.6 | 12.4 | 13.7 | 10.6 | 11.5 | 11.6 | 12.4 | 13.7 |
| | 4H | 11.5 | 12.3 | 12.5 | 13.3 | 14.5 | 11.5 | 12.3 | 12.5 | 13.3 | 14.5 |
| | 6H | 12.3 | 13.0 | 13.2 | 14.0 | 15.3 | 12.3 | 13.0 | 13.2 | 14.0 | 15.3 |
| | 8H | 12.6 | 13.3 | 13.6 | 14.3 | 15.6 | 12.6 | 13.3 | 13.6 | 14.3 | 15.6 |
| | 12H | 12.9 | 13.6 | 13.9 | 14.6 | 15.9 | 12.9 | 13.6 | 13.9 | 14.6 | 15.9 |
| 4H | 2H | 9.2 | 10.0 | 10.2 | 11.0 | 12.3 | 9.2 | 10.0 | 10.2 | 11.0 | 12.3 |
| | 3H | 11.4 | 12.1 | 12.4 | 13.1 | 14.4 | 11.4 | 12.1 | 12.4 | 13.1 | 14.4 |
| | 4H | 12.4 | 13.0 | 13.4 | 14.0 | 15.3 | 12.4 | 13.0 | 13.4 | 14.0 | 15.3 |
| | 6H | 13.3 | 13.9 | 14.3 | 14.9 | 16.2 | 13.3 | 13.9 | 14.3 | 14.9 | 16.2 |
| | 8H | 13.8 | 14.3 | 14.8 | 15.3 | 16.6 | 13.8 | 14.3 | 14.8 | 15.3 | 16.6 |
| | 12H | 14.2 | 14.6 | 15.2 | 15.6 | 17.0 | 14.2 | 14.6 | 15.2 | 15.6 | 17.0 |
| 8H | 4H | 12.7 | 13.2 | 13.7 | 14.2 | 15.6 | 12.7 | 13.2 | 13.7 | 14.2 | 15.6 |
| | 6H | 13.8 | 14.3 | 14.9 | 15.3 | 16.6 | 13.8 | 14.3 | 14.9 | 15.3 | 16.6 |
| | 8H | 14.4 | 14.8 | 15.4 | 15.8 | 17.1 | 14.4 | 14.8 | 15.4 | 15.8 | 17.1 |
| | 12H | 14.9 | 15.3 | 16.0 | 16.3 | 17.7 | 14.9 | 15.3 | 16.0 | 16.3 | 17.7 |
| 12H | 4H | 12.8 | 13.2 | 13.8 | 14.2 | 15.6 | 12.8 | 13.2 | 13.8 | 14.2 | 15.6 |
| | 6H | 13.9 | 14.3 | 15.0 | 15.3 | 16.7 | 13.9 | 14.3 | 15.0 | 15.3 | 16.7 |
| | 8H | 14.5 | 14.9 | 15.6 | 15.9 | 17.3 | 14.5 | 14.9 | 15.6 | 15.9 | 17.3 |

Maximum UGR = 17.7

POLAR GRAPH



Maximum Candela = 225.796 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.)