

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX60L-35KND-DO101-AR8BXMWWF.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00621_13_M-60L

[TESTLAB] Spectrum Lighting Photometric Lab, VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 6/7/2018

[UPDATE] 7/19/2018

[LUMCAT] SGE8BX-60L35K-ND-DO101-AR8BX-MWWF

[LUMINAIRE] Nom. 8" Diam x 9" H, Open aperture

[OTHER] Matte white reflector trim

[OTHER] Deep regressed retrofit high output LED downlight

[OTHER] BX Series, Narrow Beam

[OTHER] 24.7 Deg Beam Angle

[LAMPCAT] N/A

[LAMP] N/A, Bridgelux Vero 29

[OTHER] Dimmable driver tested at 100% output

[OTHER] Tested CCT: 3500K

[OTHER] CCT Output: 27K x 0.932, 30K x 1.00, 40K x 1.01

[OTHER] This report prepared by Spectrum Lighting, scaled from 80L

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4967 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 113 |
| Total Luminaire Watts | 44 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.42 |
| Spacing Criterion (90-270) | 0.42 |
| Spacing Criterion (Diagonal) | 0.44 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.63 ft (Diameter) |
| Luminous Width (90-270) | 0.63 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX60L-35KND-DO101-AR8BXMWWF.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1473 | 1431 | 1540 |
| 55 | 1335 | 1145 | 1337 |
| 65 | 933 | 1016 | 1165 |
| 75 | 478 | 442 | 509 |
| 85 | 297 | 383 | 507 |

PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX60L-35KND-DO101-AR8BXMWWF.IES

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 | 202.5 |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0.0 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 |
| 2.5 | 16480.388 | 16873.230 | 16567.642 | 16765.137 | 16496.477 | 16754.907 | 16426.898 | 16451.857 | 16393.147 | 16623.791 |
| 5.0 | 15722.994 | 15389.042 | 15718.229 | 15409.979 | 15661.678 | 15345.228 | 15459.099 | 15159.318 | 15400.632 | 15215.170 |
| 7.5 | 13332.063 | 13708.850 | 13427.801 | 13654.540 | 13353.025 | 13738.549 | 13264.151 | 13217.562 | 13230.413 | 13421.227 |
| 10.0 | 10890.990 | 10842.388 | 10953.059 | 10729.543 | 10749.797 | 10862.672 | 10887.973 | 10558.307 | 10883.603 | 10670.468 |
| 12.5 | 8232.669 | 8194.137 | 8112.399 | 8104.305 | 8146.668 | 8152.345 | 8199.868 | 8177.881 | 8233.657 | 8186.340 |
| 15.0 | 6002.919 | 6140.204 | 5927.558 | 5934.001 | 5699.726 | 6164.801 | 6117.602 | 5972.804 | 6156.912 | 6066.371 |
| 17.5 | 4657.467 | 4550.980 | 4470.782 | 4423.204 | 4500.483 | 4533.466 | 4618.107 | 4627.105 | 4637.493 | 4602.916 |
| 20.0 | 3647.322 | 3628.340 | 3534.746 | 3490.704 | 3473.930 | 3641.047 | 3666.757 | 3563.545 | 3683.348 | 3645.107 |
| 22.5 | 3022.411 | 2981.632 | 2923.170 | 2940.619 | 2964.999 | 2985.921 | 3016.690 | 3030.683 | 3039.056 | 3053.068 |
| 25.0 | 2564.526 | 2564.008 | 2551.847 | 2574.639 | 2554.321 | 2604.708 | 2617.427 | 2566.846 | 2632.575 | 2614.952 |
| 27.5 | 2216.026 | 2215.215 | 2259.876 | 2267.001 | 2297.921 | 2266.044 | 2285.831 | 2248.516 | 2291.288 | 2294.988 |
| 30.0 | 1828.662 | 1897.548 | 1849.276 | 1972.992 | 1934.586 | 1955.383 | 1901.654 | 1899.133 | 1958.347 | 1997.072 |
| 32.5 | 1427.866 | 1358.029 | 1420.142 | 1410.072 | 1475.651 | 1454.568 | 1499.424 | 1397.674 | 1609.450 | 1565.274 |
| 35.0 | 891.102 | 771.189 | 844.534 | 849.663 | 961.999 | 887.634 | 898.719 | 902.167 | 1011.613 | 1121.429 |
| 37.5 | 344.860 | 422.571 | 337.481 | 452.284 | 421.018 | 497.673 | 379.821 | 420.005 | 481.994 | 607.973 |
| 40.0 | 177.280 | 112.190 | 161.014 | 132.283 | 194.907 | 137.742 | 179.622 | 124.119 | 222.572 | 200.520 |
| 42.5 | 36.089 | 65.506 | 36.564 | 70.359 | 44.680 | 79.662 | 44.541 | 58.316 | 47.992 | 95.613 |
| 45.0 | 30.187 | 29.647 | 29.334 | 30.604 | 31.563 | 30.526 | 34.097 | 30.337 | 37.745 | 31.894 |
| 47.5 | 25.816 | 27.281 | 25.087 | 29.201 | 26.367 | 28.790 | 28.207 | 29.048 | 30.443 | 30.378 |
| 50.0 | 25.034 | 24.344 | 24.489 | 26.580 | 25.598 | 26.738 | 27.211 | 27.658 | 26.339 | 28.866 |
| 52.5 | 23.864 | 20.472 | 22.323 | 22.781 | 24.489 | 23.938 | 24.537 | 26.231 | 23.850 | 27.356 |
| 55.0 | 22.200 | 18.470 | 19.043 | 20.275 | 22.225 | 21.984 | 20.838 | 24.221 | 22.357 | 25.398 |
| 57.5 | 20.062 | 18.181 | 17.464 | 18.482 | 19.593 | 21.121 | 20.524 | 22.122 | 20.278 | 23.224 |
| 60.0 | 17.573 | 16.855 | 16.523 | 16.598 | 16.313 | 19.660 | 21.278 | 20.740 | 18.011 | 22.466 |
| 62.5 | 14.599 | 14.991 | 14.568 | 14.689 | 14.546 | 17.758 | 17.616 | 18.819 | 17.501 | 22.028 |
| 65.0 | 11.433 | 12.244 | 12.449 | 10.759 | 14.271 | 14.402 | 13.517 | 13.651 | 17.089 | 17.045 |
| 67.5 | 8.028 | 9.275 | 9.673 | 6.972 | 11.315 | 10.465 | 10.950 | 9.673 | 13.723 | 12.061 |
| 70.0 | 4.771 | 7.250 | 7.079 | 6.615 | 6.861 | 8.155 | 8.336 | 8.729 | 10.286 | 9.211 |
| 72.5 | 4.287 | 5.375 | 5.208 | 5.657 | 5.143 | 6.135 | 5.539 | | | |

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX60L-35KND-DO101-AR8BXMWWF.IES

CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

Vert.
Angles

Horizontal Angles

| | <u>225.0</u> | <u>247.5</u> | <u>270.0</u> | <u>292.5</u> | <u>315.0</u> | <u>337.5</u> | <u>360.0</u> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 | 16931.591 |
| 2.5 | 16415.103 | 16750.127 | 16536.779 | 16581.261 | 16434.369 | 16760.029 | 16480.388 |
| 5.0 | 15561.229 | 15231.966 | 15403.361 | 15206.893 | 15650.063 | 15410.308 | 15722.994 |
| 7.5 | 13205.029 | 13505.533 | 13369.532 | 13323.460 | 13256.156 | 13747.693 | 13332.063 |
| 10.0 | 10785.563 | 10699.819 | 10900.300 | 10570.581 | 10821.260 | 10958.318 | 10890.990 |
| 12.5 | 8142.655 | 8127.440 | 8120.030 | 8129.773 | 8209.497 | 8181.271 | 8232.669 |
| 15.0 | 5967.879 | 6097.787 | 6171.022 | 5990.977 | 6004.079 | 6299.894 | 6002.919 |
| 17.5 | 4626.871 | 4558.032 | 4541.740 | 4591.104 | 4647.396 | 4640.338 | 4657.467 |
| 20.0 | 3660.273 | 3642.867 | 3708.295 | 3594.191 | 3649.266 | 3769.352 | 3647.322 |
| 22.5 | 3070.365 | 3039.591 | 3003.210 | 3054.920 | 3062.046 | 3058.902 | 3022.411 |
| 25.0 | 2655.944 | 2663.577 | 2697.950 | 2640.232 | 2634.667 | 2631.684 | 2564.526 |
| 27.5 | 2341.356 | 2335.952 | 2384.820 | 2337.756 | 2313.146 | 2269.830 | 2216.026 |
| 30.0 | 1997.226 | 2027.390 | 2022.923 | 2031.429 | 1958.764 | 1974.032 | 1828.662 |
| 32.5 | 1644.583 | 1557.625 | 1595.473 | 1535.102 | 1593.063 | 1512.005 | 1427.866 |
| 35.0 | 1087.852 | 1060.811 | 997.659 | 1038.402 | 1028.620 | 956.302 | 891.102 |
| 37.5 | 529.741 | 600.427 | 522.119 | 540.235 | 445.093 | 541.803 | 344.860 |
| 40.0 | 277.901 | 190.033 | 217.691 | 179.185 | 231.229 | 168.256 | 177.280 |
| 42.5 | 70.476 | 101.223 | 67.777 | 82.339 | 49.088 | 83.572 | 36.089 |
| 45.0 | 48.723 | 35.676 | 41.410 | 30.862 | 36.982 | 27.897 | 30.187 |
| 47.5 | 33.086 | 32.070 | 31.345 | 27.776 | 27.971 | 25.827 | 25.816 |
| 50.0 | 29.759 | 29.110 | 28.449 | 26.456 | 26.203 | 23.745 | 25.034 |
| 52.5 | 27.982 | 27.070 | 25.696 | 26.220 | 25.093 | 21.609 | 23.864 |
| 55.0 | 27.947 | 24.699 | 22.973 | 24.518 | 24.837 | 20.596 | 22.200 |
| 57.5 | 26.177 | 22.059 | 20.465 | 22.357 | 22.998 | 21.855 | 20.062 |
| 60.0 | 23.297 | 20.627 | 17.960 | 19.637 | 20.001 | 20.499 | 17.573 |
| 62.5 | 19.933 | 19.737 | 15.421 | 16.890 | 17.787 | 16.234 | 14.599 |
| 65.0 | 16.404 | 15.297 | 13.211 | 15.062 | 15.889 | 13.773 | 11.433 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00621_13 ~ SGE8BX60L-35KND-DO101-AR8BXMWWF.IES****CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|-------|
| 67.5 | 13.261 | 10.122 | 11.984 | 12.779 | 10.737 | 12.473 | 8.028 |
| 70.0 | 10.211 | 7.855 | 9.375 | 8.567 | 5.267 | 8.919 | 4.771 |
| 72.5 | 7.966 | 5.859 | 4.752 | 5.344 | 3.988 | 4.888 | 4.287 |
| 75.0 | 5.893 | 4.679 | 2.783 | 3.282 | 3.194 | 3.677 | 3.588 |
| 77.5 | 4.150 | 3.381 | 2.038 | 2.345 | 3.092 | 2.538 | 2.608 |
| 80.0 | 2.808 | 2.031 | 1.035 | 2.134 | 1.961 | 1.731 | 1.432 |
| 82.5 | 2.147 | 0.951 | 0.894 | 1.932 | 1.778 | 1.816 | 1.132 |
| 85.0 | 1.647 | 0.798 | 0.668 | 1.186 | 1.680 | 0.921 | 0.750 |
| 87.5 | 1.096 | 0.854 | 0.625 | 0.581 | 0.907 | 0.720 | 0.569 |
| 90.0 | 0.560 | 0.838 | 0.705 | 0.000 | 0.000 | 0.000 | 0.000 |
| 92.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 95.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 97.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 100.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 102.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 105.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 107.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 110.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 112.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 115.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 117.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 120.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 122.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 125.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 127.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 130.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 132.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 3061.62 | N.A. | 61.60 |
| 0-30 | 4278.62 | N.A. | 86.10 |
| 0-40 | 4883.38 | N.A. | 98.30 |
| 0-60 | 4947.22 | N.A. | 99.60 |
| 0-80 | 4965.53 | N.A. | 100.00 |
| 0-90 | 4966.71 | N.A. | 100.00 |
| 10-90 | 3643.88 | N.A. | 73.40 |
| 20-40 | 1821.77 | N.A. | 36.70 |
| 20-50 | 1865.2 | N.A. | 37.60 |
| 40-70 | 77.58 | N.A. | 1.60 |
| 60-80 | 18.30 | N.A. | 0.40 |
| 70-80 | 4.56 | N.A. | 0.10 |
| 80-90 | 1.18 | N.A. | 0.00 |
| 90-110 | 0.05 | N.A. | 0.00 |
| 90-120 | 0.05 | N.A. | 0.00 |
| 90-130 | 0.05 | N.A. | 0.00 |
| 90-150 | 0.05 | N.A. | 0.00 |
| 90-180 | 0.05 | N.A. | 0.00 |
| 110-180 | 0.00 | N.A. | 0.00 |
| 0-180 | 4966.76 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1322.83 |
| 10-20 | 1738.79 |
| 20-30 | 1217.00 |
| 30-40 | 604.77 |
| 40-50 | 43.43 |
| 50-60 | 20.41 |
| 60-70 | 13.74 |
| 70-80 | 4.56 |
| 80-90 | 1.18 |
| 90-100 | 0.05 |
| 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 |

IES INDOOR REPORT

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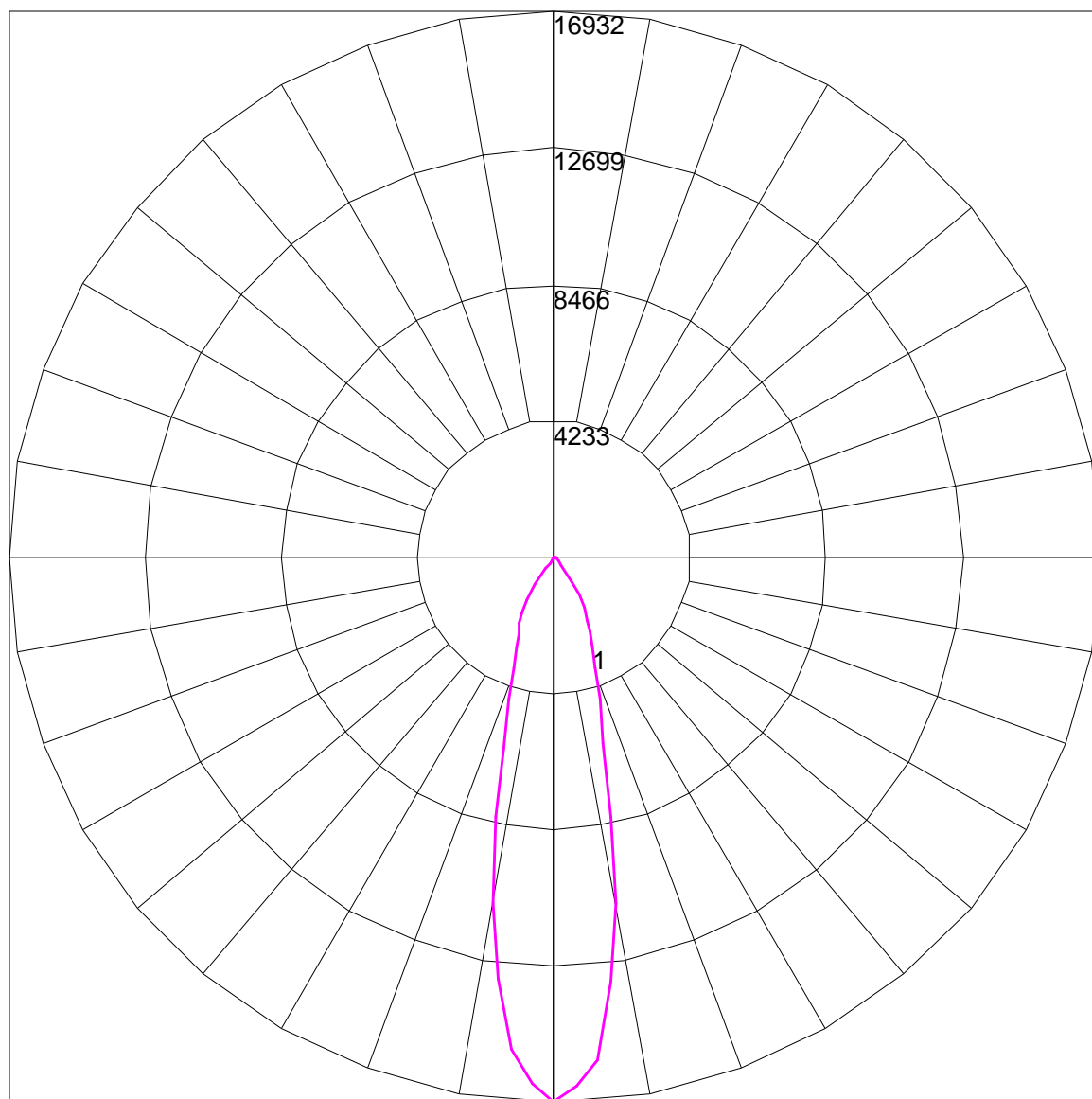
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 103 | 100 | 108 | 104 | 101 | 99 | 101 | 99 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 91 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 97 | 93 | 91 | 94 | 92 | 90 | 92 | 90 | 88 | 87 |
| 4 | 102 | 96 | 91 | 88 | 100 | 94 | 90 | 87 | 92 | 89 | 86 | 91 | 88 | 85 | 89 | 86 | 84 | 83 |
| 5 | 98 | 91 | 86 | 83 | 96 | 90 | 86 | 83 | 89 | 85 | 82 | 87 | 84 | 81 | 86 | 83 | 80 | 79 |
| 6 | 94 | 87 | 82 | 79 | 93 | 86 | 82 | 79 | 85 | 81 | 78 | 84 | 80 | 78 | 83 | 79 | 77 | 76 |
| 7 | 91 | 84 | 79 | 75 | 90 | 83 | 78 | 75 | 82 | 78 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 73 |
| 8 | 88 | 80 | 75 | 72 | 87 | 80 | 75 | 72 | 79 | 75 | 72 | 78 | 74 | 71 | 77 | 74 | 71 | 70 |
| 9 | 85 | 77 | 72 | 69 | 84 | 77 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 74 | 71 | 68 | 67 |
| 10 | 82 | 74 | 70 | 66 | 81 | 74 | 69 | 66 | 73 | 69 | 66 | 72 | 69 | 66 | 72 | 68 | 66 | 65 |

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POLAR GRAPH



Maximum Candela = 16931.591 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)