

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00645 ~ OR1917GV-15L35K-EX-TF2.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00645_1_M-15L
 [TESTLAB] Spectrum Lighting Photometric Lab VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 6/28/2018
 [UPDATE] 7/5/2018
 [LUMCAT] OR1917GV-15L-35K-EX-TF2
 [LUMINAIRE] Nom. 19" diam x 17" H, RLM Classics luminaire
 [OTHER] Light distribution: 95% down / 5% uplight
 [OTHER] Regressed, 6" diam. low profile frosted glass diffuser
 [OTHER] Reflector: Matte White interior finish
 [OTHER] Open aperture reflector
 [OTHER] Beam Angle: 68 degrees
 [OTHER] 95% Downlight; 5% Uplight
 [LAMP] N/A, Gen3
 [LAMPCAT] N/A
 [OTHER] Total Luminaire Watts is approximate
 [OTHER] This report generated by Spectrum Lighting, scaled from 45L
 [_CCTMULT]27K x 0.971, 30K x 0.985, 40K x 1.03
 [_LAMPMULT]45L x 1.0, 37L x 0.792, 27L x 0.54, 15L x 0.31
 [_CRI]85+

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 939 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 94 |
| Total Luminaire Watts | 10 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.94 |
| Spacing Criterion (90-270) | 0.92 |
| Spacing Criterion (Diagonal) | 0.98 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 1.56 ft (Diameter) |
| Luminous Width (90-270) | 1.56 ft (Diameter) |
| Luminous Height | 0.13 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 631 | 616 | 621 |
| 55 | 669 | 680 | 727 |
| 65 | 1067 | 1051 | 1187 |
| 75 | 1039 | 993 | 1120 |
| 85 | 882 | 834 | 920 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 0.0 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 |
| 2.5 | 636.985 | 638.761 | 638.698 | 637.766 | 635.786 | 614.155 | 616.517 | 621.969 | 625.298 | 629.198 |
| 5.0 | 609.350 | 615.412 | 605.934 | 610.989 | 605.597 | 584.579 | 592.777 | 587.207 | 596.330 | 595.531 |
| 7.5 | 579.108 | 579.060 | 572.211 | 572.513 | 572.496 | 552.840 | 556.098 | 553.036 | 559.075 | 561.748 |
| 10.0 | 542.664 | 544.931 | 535.849 | 537.818 | 534.869 | 519.431 | 522.367 | 520.587 | 526.366 | 527.742 |
| 12.5 | 509.353 | 512.258 | 502.397 | 505.273 | 501.875 | 490.978 | 493.837 | 490.446 | 496.081 | 497.281 |
| 15.0 | 484.206 | 485.672 | 477.776 | 479.759 | 476.674 | 466.713 | 468.983 | 467.896 | 472.454 | 474.307 |
| 17.5 | 462.027 | 463.324 | 455.876 | 458.573 | 455.580 | 448.421 | 451.051 | 447.587 | 452.675 | 454.308 |
| 20.0 | 448.192 | 447.205 | 442.934 | 443.167 | 441.847 | 435.487 | 435.639 | 435.302 | 438.418 | 441.040 |
| 22.5 | 435.232 | 435.697 | 430.456 | 431.549 | 429.559 | 424.238 | 425.381 | 423.457 | 427.563 | 428.598 |
| 25.0 | 424.985 | 424.472 | 419.717 | 420.522 | 420.128 | 414.594 | 414.678 | 413.331 | 416.580 | 418.201 |
| 27.5 | 412.495 | 413.478 | 406.723 | 409.911 | 407.504 | 399.532 | 402.979 | 399.852 | 405.512 | 403.962 |
| 30.0 | 392.301 | 390.785 | 384.481 | 385.065 | 388.123 | 378.833 | 379.778 | 371.222 | 375.860 | 379.309 |
| 32.5 | 359.342 | 358.031 | 351.161 | 349.347 | 350.358 | 329.664 | 329.078 | 332.898 | 332.845 | 339.245 |
| 35.0 | 278.507 | 296.120 | 267.745 | 284.725 | 270.918 | 249.056 | 269.954 | 246.007 | 266.130 | 254.068 |
| 37.5 | 202.586 | 207.590 | 189.697 | 196.658 | 198.108 | 181.016 | 188.774 | 166.067 | 181.303 | 177.959 |
| 40.0 | 147.349 | 145.177 | 140.074 | 137.990 | 142.019 | 127.924 | 122.577 | 126.184 | 127.027 | 131.194 |
| 42.5 | 99.618 | 108.829 | 96.096 | 105.017 | 97.915 | 93.427 | 99.509 | 90.459 | 98.295 | 92.612 |
| 45.0 | 87.665 | 86.742 | 85.680 | 85.616 | 86.377 | 82.772 | 81.282 | 82.734 | 82.299 | 83.467 |
| 47.5 | 77.326 | 79.759 | 76.490 | 78.994 | 77.550 | 76.709 | 78.136 | 76.155 | 77.609 | 76.358 |
| 50.0 | 75.560 | 75.802 | 75.569 | 75.930 | 76.684 | 76.903 | 76.892 | 78.431 | 76.884 | 77.258 |
| 52.5 | 74.586 | 75.294 | 75.241 | 76.423 | 77.778 | 80.687 | 82.222 | 81.386 | 79.894 | 79.615 |
| 55.0 | 78.482 | 77.849 | 79.866 | 79.655 | 85.363 | 89.750 | 88.441 | 90.734 | 85.524 | 88.429 |
| 57.5 | 82.869 | 84.167 | 84.701 | 85.879 | 93.234 | 98.512 | 98.087 | 99.811 | 93.855 | 96.716 |
| 60.0 | 90.804 | 90.727 | 91.603 | 91.786 | 102.141 | 106.794 | 106.408 | 105.652 | 99.628 | 102.350 |
| 62.5 | 97.937 | 97.606 | 97.898 | 97.325 | 109.277 | 111.550 | 109.109 | 110.835 | 102.609 | 106.541 |
| 65.0 | 98.350 | 100.267 | 96.940 | 98.618 | 109.430 | 110.336 | 109.990 | 106.130 | 101.136 | 102.607 |
| 67.5 | 97.910 | 96.985 | 95.484 | 94.684 | 107.628 | 105.638 | 102.141 | 101.121 | 94.498 | 97.712 |
| 70.0 | 88.232 | 90.663 | 85.472 | 87.785 | 96.918 | 94.550 | 93.573 | 89.497 | 85.728 | 86.509 |
| 72.5 | 78.414 | 79.714 | 75.396 | 76.893 | 85.698 | 82.657 | 81.058 | 77.858 | 74.254 | 75.284 |
| 75.0 | 66.744 | 68.428 | 63.783 | 65.894 | 71.899 | 69.161 | 68.649 | 65.647 | 63.190 | 63.878 |
| 77.5 | 55.190 | 56.596 | 52.234 | 54.739 | 58.572 | 56.597 | 56.901 | 53.464 | 52.680 | 52.648 |
| 80.0 | 45.638 | 45.945 | 43.156 | 44.608 | 47.995 | 46.020 | 45.544 | 43.958 | 42.951 | 43.033 |
| 82.5 | 36.203 | 37.366 | 34.089 | 36.034 | 37.950 | 36.802 | 37.138 | 34.453 | 34.359 | 33.719 |
| 85.0 | 30.236 | 30.236 | 28.571 | 29.133 | 31.523 | 30.738 | 29.259 | 28.597 | 27.676 | 28.040 |
| 87.5 | 24.349 | 25.862 | 23.053 | 25.031 | 25.601 | 25.802 | 26.030 | 22.784 | 23.993 | 22.635 |
| 90.0 | 22.960 | 22.496 | 21.535 | 21.782 | 23.631 | 23.731 | 22.930 | 21.521 | 21.043 | 21.369 |
| 92.5 | 21.569 | 21.180 | 20.066 | 20.056 | 21.630 | 21.582 | 21.191 | 20.381 | 19.321 | 20.057 |
| 95.0 | 19.681 | 19.638 | 17.971 | 18.269 | 19.333 | 19.223 | 19.427 | 18.495 | 17.658 | 17.783 |
| 97.5 | 17.793 | 17.595 | 15.857 | 16.366 | 17.092 | 17.019 | 17.311 | 16.576 | 16.103 | 15.531 |
| 100.0 | 15.786 | 15.655 | 14.333 | 14.577 | 15.538 | 15.294 | 15.217 | 14.504 | 14.478 | 14.173 |
| 102.5 | 13.776 | 13.964 | 12.840 | 13.025 | 13.970 | 13.605 | 13.555 | 12.420 | 12.714 | 12.813 |
| 105.0 | 11.931 | 12.322 | 11.545 | 11.598 | 12.182 | 12.030 | 11.898 | 11.286 | 11.228 | 11.267 |
| 107.5 | 10.091 | 10.804 | 10.265 | 10.454 | 10.409 | 10.513 | 10.365 | 10.231 | 10.327 | 9.721 |
| 110.0 | 8.578 | 9.249 | 9.174 | 9.344 | 8.980 | 9.201 | 8.841 | 7.950 | 8.907 | 8.587 |
| 112.5 | 7.081 | 7.584 | 8.101 | 8.319 | 7.547 | 7.913 | 8.020 | 5.542 | 6.295 | 7.455 |
| 115.0 | 4.451 | 5.760 | 6.923 | 7.343 | 5.932 | 6.723 | 7.200 | 3.472 | 3.936 | 4.620 |
| 117.5 | 1.733 | 3.435 | 5.733 | 6.502 | 4.329 | 5.625 | 5.622 | 1.445 | 2.212 | 1.737 |
| 120.0 | 1.041 | 1.505 | 4.653 | 5.697 | 3.908 | 4.949 | 4.042 | 0.788 | 0.853 | 1.024 |
| 122.5 | 0.540 | 0.924 | 3.587 | 4.994 | 3.488 | 4.229 | 3.043 | 0.336 | 0.480 | 0.406 |
| 125.0 | 0.439 | 0.479 | 2.529 | 4.147 | 3.209 | 3.284 | 2.053 | 0.336 | 0.216 | 0.396 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 127.5 | 0.384 | 0.563 | 1.473 | 2.838 | 2.931 | 2.334 | 1.325 | 0.412 | 0.286 | 0.423 |
| 130.0 | 0.370 | 0.611 | 1.076 | 1.663 | 1.918 | 1.346 | 0.608 | 0.399 | 0.341 | 0.387 |
| 132.5 | 0.363 | 0.501 | 0.799 | 0.972 | 0.884 | 0.473 | 0.510 | 0.369 | 0.348 | 0.346 |
| 135.0 | 0.402 | 0.411 | 0.581 | 0.436 | 0.652 | 0.393 | 0.447 | 0.362 | 0.352 | 0.359 |
| 137.5 | 0.449 | 0.413 | 0.376 | 0.507 | 0.456 | 0.321 | 0.425 | 0.360 | 0.345 | 0.378 |
| 140.0 | 0.485 | 0.413 | 0.396 | 0.555 | 0.535 | 0.301 | 0.406 | 0.396 | 0.337 | 0.416 |
| 142.5 | 0.519 | 0.403 | 0.467 | 0.492 | 0.632 | 0.289 | 0.368 | 0.441 | 0.325 | 0.457 |
| 145.0 | 0.518 | 0.396 | 0.437 | 0.448 | 0.460 | 0.349 | 0.328 | 0.405 | 0.331 | 0.421 |
| 147.5 | 0.509 | 0.412 | 0.381 | 0.491 | 0.264 | 0.405 | 0.363 | 0.344 | 0.421 | 0.373 |
| 150.0 | 0.458 | 0.428 | 0.379 | 0.524 | 0.324 | 0.398 | 0.406 | 0.328 | 0.479 | 0.354 |
| 152.5 | 0.397 | 0.445 | 0.393 | 0.495 | 0.410 | 0.396 | 0.391 | 0.325 | 0.384 | 0.339 |
| 155.0 | 0.467 | 0.456 | 0.496 | 0.464 | 0.365 | 0.458 | 0.368 | 0.361 | 0.326 | 0.425 |
| 157.5 | 0.569 | 0.435 | 0.626 | 0.426 | 0.306 | 0.507 | 0.321 | 0.409 | 0.437 | 0.527 |
| 160.0 | 0.624 | 0.443 | 0.498 | 0.406 | 0.426 | 0.496 | 0.288 | 0.414 | 0.519 | 0.422 |
| 162.5 | 0.643 | 0.516 | 0.372 | 0.421 | 0.523 | 0.436 | 0.417 | 0.401 | 0.548 | 0.344 |
| 165.0 | 0.531 | 0.548 | 0.414 | 0.416 | 0.561 | 0.305 | 0.442 | 0.337 | 0.531 | 0.388 |
| 167.5 | 0.462 | 0.552 | 0.443 | 0.415 | 0.508 | 0.352 | 0.351 | 0.331 | 0.475 | 0.483 |
| 170.0 | 0.444 | 0.521 | 0.458 | 0.467 | 0.472 | 0.377 | 0.376 | 0.350 | 0.351 | 0.525 |
| 172.5 | 0.510 | 0.369 | 0.458 | 0.375 | 0.503 | 0.388 | 0.356 | 0.355 | 0.356 | 0.448 |
| 175.0 | 0.606 | 0.456 | 0.444 | 0.492 | 0.464 | 0.459 | 0.409 | 0.417 | 0.475 | 0.482 |
| 177.5 | 0.455 | 0.454 | 0.338 | 0.508 | 0.391 | 0.434 | 0.397 | 0.427 | 0.358 | 0.499 |
| 180.0 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 |

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 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 | 637.370 |
| 2.5 | 635.923 | 635.105 | 633.708 | 621.306 | 624.837 | 634.651 | 636.985 |
| 5.0 | 608.335 | 604.369 | 608.880 | 604.078 | 602.198 | 611.828 | 609.350 |
| 7.5 | 571.957 | 572.634 | 572.426 | 571.918 | 572.787 | 579.143 | 579.108 |
| 10.0 | 539.232 | 538.684 | 539.989 | 541.245 | 538.598 | 546.542 | 542.664 |
| 12.5 | 508.213 | 507.724 | 510.751 | 512.960 | 510.026 | 513.979 | 509.353 |
| 15.0 | 484.029 | 484.014 | 486.674 | 488.043 | 485.793 | 488.734 | 484.206 |
| 17.5 | 463.317 | 463.257 | 467.028 | 468.886 | 466.340 | 466.969 | 462.027 |
| 20.0 | 448.297 | 450.198 | 451.752 | 452.664 | 450.809 | 451.108 | 448.192 |
| 22.5 | 436.365 | 438.168 | 440.459 | 441.795 | 437.935 | 438.250 | 435.232 |
| 25.0 | 425.437 | 429.091 | 429.649 | 430.990 | 427.377 | 426.606 | 424.985 |
| 27.5 | 415.101 | 416.881 | 419.315 | 420.314 | 413.297 | 415.641 | 412.495 |
| 30.0 | 389.771 | 394.750 | 393.983 | 400.014 | 395.863 | 392.348 | 392.301 |
| 32.5 | 354.901 | 358.017 | 352.797 | 358.981 | 350.069 | 361.684 | 359.342 |
| 35.0 | 287.357 | 271.050 | 288.143 | 303.357 | 275.608 | 295.923 | 278.507 |
| 37.5 | 197.689 | 191.312 | 197.158 | 213.439 | 206.063 | 207.468 | 202.586 |
| 40.0 | 139.532 | 139.954 | 133.837 | 140.146 | 141.791 | 148.070 | 147.349 |
| 42.5 | 104.406 | 96.293 | 103.959 | 109.626 | 100.552 | 108.967 | 99.618 |
| 45.0 | 85.105 | 85.843 | 84.405 | 85.661 | 86.331 | 87.670 | 87.665 |
| 47.5 | 78.278 | 77.104 | 78.308 | 79.871 | 77.650 | 79.595 | 77.326 |
| 50.0 | 76.340 | 76.529 | 75.268 | 75.582 | 75.871 | 75.622 | 75.560 |
| 52.5 | 78.494 | 77.240 | 76.460 | 75.884 | 76.353 | 74.935 | 74.586 |
| 55.0 | 84.289 | 85.180 | 80.402 | 77.380 | 79.872 | 77.761 | 78.482 |
| 57.5 | 93.417 | 92.953 | 88.517 | 82.921 | 84.589 | 83.617 | 82.869 |
| 60.0 | 99.957 | 99.676 | 95.125 | 87.899 | 91.046 | 90.110 | 90.804 |
| 62.5 | 103.985 | 105.242 | 99.299 | 90.800 | 94.770 | 97.188 | 97.937 |
| 65.0 | 103.276 | 102.439 | 99.849 | 92.144 | 94.282 | 98.980 | 98.350 |

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CANDELA TABULATION - (Cont.)

| | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 67.5 | 97.685 | 98.783 | 94.159 | 87.041 | 90.709 | 95.558 | 97.910 |
| 70.0 | 89.128 | 87.383 | 86.167 | 81.029 | 81.991 | 88.583 | 88.232 |
| 72.5 | 77.229 | 75.940 | 73.808 | 70.761 | 72.485 | 77.831 | 78.414 |
| 75.0 | 65.740 | 64.022 | 61.933 | 60.570 | 61.555 | 66.809 | 66.744 |
| 77.5 | 54.741 | 52.278 | 51.038 | 50.780 | 51.206 | 55.480 | 55.190 |
| 80.0 | 44.780 | 42.888 | 41.170 | 41.299 | 41.978 | 45.200 | 45.638 |
| 82.5 | 36.136 | 33.699 | 33.527 | 33.682 | 33.757 | 36.192 | 36.203 |
| 85.0 | 29.365 | 28.582 | 27.060 | 26.570 | 27.652 | 29.269 | 30.236 |
| 87.5 | 25.199 | 23.578 | 23.423 | 23.018 | 22.863 | 25.078 | 24.349 |
| 90.0 | 22.018 | 21.991 | 20.422 | 19.735 | 21.084 | 22.165 | 22.960 |
| 92.5 | 20.293 | 20.398 | 19.070 | 18.639 | 19.283 | 21.031 | 21.569 |
| 95.0 | 18.492 | 18.450 | 17.681 | 17.493 | 17.425 | 19.412 | 19.681 |
| 97.5 | 16.570 | 16.502 | 16.189 | 15.813 | 15.669 | 17.054 | 17.793 |
| 100.0 | 14.726 | 14.966 | 14.664 | 14.157 | 14.187 | 15.021 | 15.786 |
| 102.5 | 13.016 | 13.432 | 13.037 | 12.802 | 12.681 | 13.517 | 13.776 |
| 105.0 | 11.470 | 11.704 | 11.473 | 11.447 | 11.104 | 11.976 | 11.931 |
| 107.5 | 10.223 | 9.972 | 10.122 | 10.075 | 9.693 | 10.373 | 10.091 |
| 110.0 | 8.981 | 8.719 | 8.739 | 8.725 | 8.813 | 8.600 | 8.578 |
| 112.5 | 7.748 | 7.486 | 7.232 | 7.976 | 7.802 | 6.503 | 7.081 |
| 115.0 | 6.481 | 6.620 | 5.780 | 7.224 | 6.313 | 4.457 | 4.451 |
| 117.5 | 5.142 | 5.777 | 4.560 | 6.340 | 4.878 | 2.514 | 1.733 |
| 120.0 | 3.978 | 5.042 | 3.487 | 5.457 | 3.654 | 1.081 | 1.041 |
| 122.5 | 3.223 | 4.316 | 3.110 | 4.710 | 2.513 | 0.763 | 0.540 |
| 125.0 | 2.412 | 3.179 | 2.695 | 3.962 | 1.730 | 0.521 | 0.439 |
| 127.5 | 1.453 | 2.002 | 2.070 | 2.657 | 1.038 | 0.465 | 0.384 |
| 130.0 | 0.698 | 1.258 | 1.454 | 1.342 | 0.806 | 0.423 | 0.370 |
| 132.5 | 0.513 | 0.568 | 0.884 | 0.913 | 0.591 | 0.418 | 0.363 |
| 135.0 | 0.385 | 0.461 | 0.380 | 0.513 | 0.479 | 0.413 | 0.402 |
| 137.5 | 0.428 | 0.436 | 0.349 | 0.459 | 0.394 | 0.404 | 0.449 |
| 140.0 | 0.457 | 0.402 | 0.320 | 0.422 | 0.488 | 0.404 | 0.485 |
| 142.5 | 0.437 | 0.366 | 0.315 | 0.459 | 0.565 | 0.434 | 0.519 |
| 145.0 | 0.427 | 0.343 | 0.312 | 0.502 | 0.507 | 0.464 | 0.518 |
| 147.5 | 0.452 | 0.323 | 0.323 | 0.468 | 0.457 | 0.498 | 0.509 |
| 150.0 | 0.470 | 0.328 | 0.333 | 0.428 | 0.484 | 0.534 | 0.458 |
| 152.5 | 0.457 | 0.338 | 0.309 | 0.508 | 0.513 | 0.577 | 0.397 |
| 155.0 | 0.449 | 0.338 | 0.292 | 0.603 | 0.556 | 0.599 | 0.467 |
| 157.5 | 0.460 | 0.335 | 0.345 | 0.525 | 0.588 | 0.544 | 0.569 |
| 160.0 | 0.451 | 0.317 | 0.385 | 0.447 | 0.560 | 0.540 | 0.624 |
| 162.5 | 0.407 | 0.315 | 0.392 | 0.472 | 0.503 | 0.617 | 0.643 |
| 165.0 | 0.393 | 0.376 | 0.381 | 0.492 | 0.405 | 0.568 | 0.531 |
| 167.5 | 0.401 | 0.395 | 0.351 | 0.504 | 0.487 | 0.494 | 0.462 |
| 170.0 | 0.440 | 0.412 | 0.277 | 0.416 | 0.507 | 0.497 | 0.444 |
| 172.5 | 0.404 | 0.435 | 0.277 | 0.498 | 0.455 | 0.438 | 0.510 |
| 175.0 | 0.512 | 0.299 | 0.332 | 0.489 | 0.426 | 0.507 | 0.606 |
| 177.5 | 0.412 | 0.320 | 0.396 | 0.470 | 0.478 | 0.527 | 0.455 |
| 180.0 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 | 0.483 |

IES INDOOR REPORT
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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 190.96 | N.A. | 20.30 |
| 0-30 | 384.77 | N.A. | 41.00 |
| 0-40 | 550.92 | N.A. | 58.70 |
| 0-60 | 697.86 | N.A. | 74.30 |
| 0-80 | 864.85 | N.A. | 92.10 |
| 0-90 | 897.97 | N.A. | 95.60 |
| 10-90 | 842.64 | N.A. | 89.70 |
| 20-40 | 359.96 | N.A. | 38.30 |
| 20-50 | 430.98 | N.A. | 45.90 |
| 40-70 | 244.55 | N.A. | 26.00 |
| 60-80 | 166.99 | N.A. | 17.80 |
| 70-80 | 69.38 | N.A. | 7.40 |
| 80-90 | 33.11 | N.A. | 3.50 |
| 90-110 | 32.57 | N.A. | 3.50 |
| 90-120 | 38.44 | N.A. | 4.10 |
| 90-130 | 40.25 | N.A. | 4.30 |
| 90-150 | 40.93 | N.A. | 4.40 |
| 90-180 | 41.30 | N.A. | 4.40 |
| 110-180 | 8.72 | N.A. | 0.90 |
| 0-180 | 939.26 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 55.33 |
| 10-20 | 135.63 |
| 20-30 | 193.81 |
| 30-40 | 166.15 |
| 40-50 | 71.02 |
| 50-60 | 75.91 |
| 60-70 | 97.61 |
| 70-80 | 69.38 |
| 80-90 | 33.11 |
| 90-100 | 20.14 |
| 100-110 | 12.43 |
| 110-120 | 5.86 |
| 120-130 | 1.81 |
| 130-140 | 0.41 |
| 140-150 | 0.26 |
| 150-160 | 0.20 |
| 160-170 | 0.13 |
| 170-180 | 0.04 |

IES INDOOR REPORT
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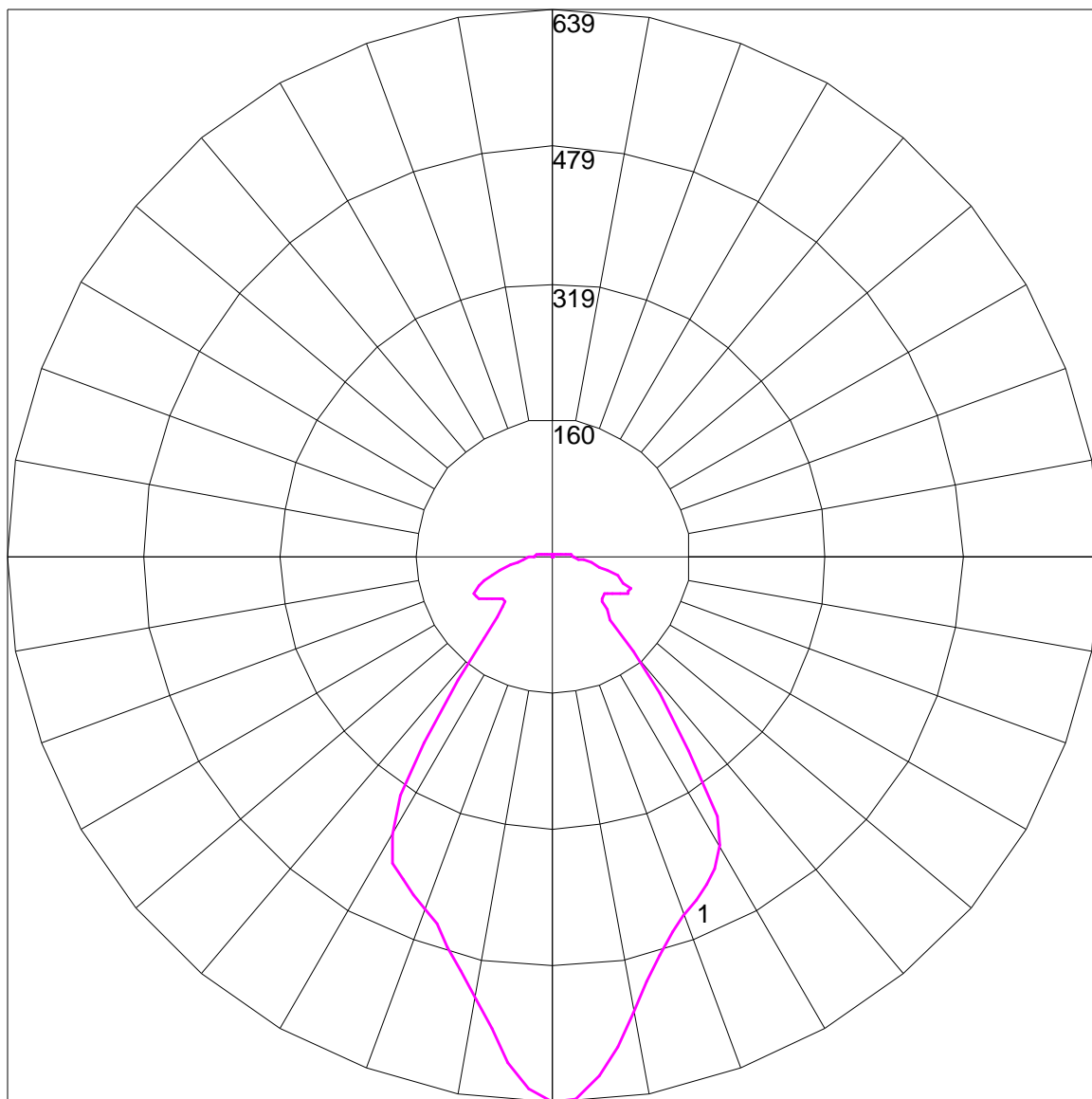
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 103 | 103 | 103 | 98 | 98 | 98 | 96 |
| 1 | 108 | 103 | 99 | 95 | 105 | 100 | 97 | 93 | 95 | 92 | 89 | 91 | 88 | 86 | 86 | 84 | 83 | 80 |
| 2 | 99 | 91 | 85 | 79 | 96 | 89 | 83 | 78 | 85 | 80 | 76 | 81 | 77 | 73 | 77 | 74 | 71 | 69 |
| 3 | 91 | 82 | 74 | 68 | 89 | 80 | 73 | 67 | 76 | 70 | 65 | 73 | 68 | 64 | 70 | 66 | 62 | 60 |
| 4 | 85 | 74 | 66 | 60 | 82 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 56 | 64 | 59 | 55 | 53 |
| 5 | 79 | 67 | 59 | 53 | 77 | 66 | 58 | 52 | 63 | 57 | 52 | 61 | 55 | 51 | 59 | 54 | 50 | 48 |
| 6 | 74 | 62 | 54 | 48 | 72 | 61 | 53 | 47 | 58 | 52 | 47 | 56 | 50 | 46 | 54 | 49 | 45 | 43 |
| 7 | 69 | 57 | 49 | 43 | 67 | 56 | 48 | 43 | 54 | 47 | 43 | 52 | 46 | 42 | 51 | 45 | 41 | 39 |
| 8 | 65 | 53 | 45 | 40 | 63 | 52 | 45 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 47 | 42 | 38 | 36 |
| 9 | 61 | 49 | 42 | 37 | 60 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 44 | 39 | 35 | 34 |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 42 | 37 | 33 | 31 |

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POLAR GRAPH



Maximum Candela = 638.761 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180)