

IES INDOOR REPORT
PHOTOMETRIC FILENAME : PRXXX16LEDGV-37L35KE1-PR16.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]101925754CRT-003_M-37L
 [TESTLAB]Intertek
 [LAB-REF LUMCAT]1412221322-001-001_M-37L
 [ISSUEDATE]12/25/2014
 [UPDATE] 12/02/2015
 [MANUFAC]SPECTRUM
 [LUMCAT]PRxxx16LEDGV-37L-35K-E1/PR16
 [LUMINAIRE]For PRDDH and PREXT Series, 16" Prismatic acrylic refractor, Open Aperture
 [LAMP]N/A, min. 85 CRI
 [LAMPCAT]N/A
 [OTHER]Total Luminaire Watts is approximate
 [OTHER]Output Multipliers for other CCT's: 50K x 1.07; 40K x 1.03; 30K x 0.98; 27K x 0.97
 [OTHER]This report updated by Spectrum Lighting, scaled from 55W-35K report

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 3157 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 112 |
| Total Luminaire Watts | 28.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.88 |
| Spacing Criterion (90-270) | 0.88 |
| Spacing Criterion (Diagonal) | 0.94 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 1.33 ft (Diameter) |
| Luminous Height | 0.46 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2537 | 2508 | 2477 |
| 55 | 1878 | 1886 | 1900 |
| 65 | 1580 | 1594 | 1594 |
| 75 | 1241 | 1233 | 1231 |
| 85 | 1035 | 1037 | 1037 |

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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> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 2615.463 | 2615.463 | 2615.463 | 2615.463 | 2615.463 |
| 2.5 | 2589.131 | 2590.727 | 2592.261 | 2596.251 | 2598.706 |
| 5.0 | 2534.564 | 2536.897 | 2538.493 | 2537.940 | 2538.002 |
| 7.5 | 2458.023 | 2462.136 | 2460.540 | 2457.594 | 2453.052 |
| 10.0 | 2371.478 | 2375.283 | 2374.792 | 2372.582 | 2366.690 |
| 12.5 | 2260.134 | 2264.983 | 2267.316 | 2267.745 | 2263.817 |
| 15.0 | 2129.395 | 2131.912 | 2132.218 | 2135.840 | 2135.226 |
| 17.5 | 1985.275 | 1984.170 | 1980.180 | 1984.293 | 1988.712 |
| 20.0 | 1849.625 | 1845.881 | 1842.934 | 1843.978 | 1846.188 |
| 22.5 | 1752.706 | 1752.276 | 1750.742 | 1749.760 | 1751.478 |
| 25.0 | 1641.363 | 1641.915 | 1643.143 | 1642.958 | 1648.790 |
| 27.5 | 1531.370 | 1529.896 | 1527.994 | 1527.871 | 1537.078 |
| 30.0 | 1421.438 | 1425.121 | 1432.118 | 1441.080 | 1445.315 |
| 32.5 | 1253.502 | 1255.221 | 1247.978 | 1214.833 | 1220.910 |
| 35.0 | 934.756 | 928.066 | 907.933 | 859.013 | 860.548 |
| 37.5 | 613.493 | 602.199 | 578.813 | 539.653 | 533.331 |
| 40.0 | 433.404 | 431.870 | 426.714 | 422.479 | 414.376 |
| 42.5 | 381.845 | 383.011 | 379.328 | 377.057 | 370.183 |
| 45.0 | 333.846 | 333.232 | 329.979 | 330.961 | 325.866 |
| 47.5 | 287.565 | 286.460 | 284.128 | 286.951 | 284.435 |
| 50.0 | 260.619 | 260.313 | 259.453 | 262.645 | 261.049 |
| 52.5 | 242.390 | 242.819 | 242.635 | 246.195 | 244.354 |
| 55.0 | 226.676 | 227.536 | 227.597 | 230.912 | 229.316 |
| 57.5 | 211.209 | 212.927 | 213.480 | 216.119 | 214.769 |
| 60.0 | 196.355 | 198.135 | 198.933 | 200.897 | 199.608 |
| 62.5 | 181.746 | 183.219 | 184.140 | 185.429 | 184.386 |
| 65.0 | 167.690 | 168.856 | 169.225 | 170.023 | 169.225 |
| 67.5 | 152.591 | 153.327 | 153.389 | 153.818 | 153.143 |
| 70.0 | 137.614 | 138.166 | 137.737 | 138.044 | 137.062 |
| 72.5 | 123.190 | 123.190 | 122.883 | 122.944 | 122.576 |
| 75.0 | 109.686 | 108.949 | 108.949 | 109.072 | 108.765 |
| 77.5 | 97.778 | 96.182 | 96.121 | 96.305 | 96.182 |
| 80.0 | 87.405 | 86.300 | 86.484 | 86.730 | 86.546 |
| 82.5 | 78.751 | 78.014 | 78.259 | 78.382 | 78.259 |
| 85.0 | 70.341 | 70.219 | 70.464 | 70.526 | 70.464 |
| 87.5 | 63.528 | 63.590 | 63.958 | 64.142 | 64.019 |
| 90.0 | 58.188 | 58.557 | 59.048 | 59.048 | 58.863 |
| 92.5 | 53.707 | 54.137 | 54.628 | 54.383 | 54.260 |
| 95.0 | 49.595 | 50.270 | 50.454 | 50.332 | 50.270 |
| 97.5 | 46.158 | 46.772 | 47.078 | 46.833 | 46.956 |
| 100.0 | 42.966 | 43.703 | 43.703 | 43.457 | 43.764 |
| 102.5 | 40.265 | 40.940 | 40.695 | 40.511 | 40.879 |
| 105.0 | 37.994 | 38.547 | 38.117 | 37.871 | 38.424 |
| 107.5 | 35.969 | 36.398 | 35.969 | 35.723 | 36.091 |
| 110.0 | 34.005 | 34.005 | 33.698 | 33.636 | 33.636 |
| 112.5 | 31.795 | 31.672 | 31.672 | 31.549 | 31.365 |
| 115.0 | 30.015 | 29.769 | 29.708 | 29.585 | 29.708 |
| 117.5 | 28.419 | 28.235 | 28.235 | 28.235 | 28.173 |
| 120.0 | 27.007 | 26.946 | 27.007 | 26.762 | 26.762 |
| 122.5 | 25.657 | 25.718 | 25.657 | 25.595 | 25.534 |
| 125.0 | 24.184 | 24.306 | 24.245 | 24.122 | 24.122 |
| 127.5 | 22.588 | 22.711 | 22.772 | 22.649 | 22.711 |
| 130.0 | 21.237 | 21.360 | 21.237 | 21.299 | 21.176 |
| 132.5 | 20.378 | 20.501 | 20.501 | 20.440 | 20.378 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|--------|--------|--------|--------|--------|
| 135.0 | 20.133 | 20.255 | 20.194 | 20.071 | 20.071 |
| 137.5 | 19.826 | 19.887 | 19.948 | 19.826 | 19.887 |
| 140.0 | 19.642 | 19.703 | 19.642 | 19.580 | 19.519 |
| 142.5 | 19.396 | 19.457 | 19.396 | 19.335 | 19.396 |
| 145.0 | 19.212 | 19.212 | 19.273 | 19.273 | 19.212 |
| 147.5 | 19.089 | 19.151 | 19.151 | 19.151 | 19.151 |
| 150.0 | 19.335 | 19.335 | 19.457 | 19.335 | 19.396 |
| 152.5 | 19.519 | 19.642 | 19.703 | 19.580 | 19.642 |
| 155.0 | 19.519 | 19.519 | 19.948 | 19.642 | 19.580 |
| 157.5 | 19.273 | 19.703 | 20.071 | 19.703 | 19.273 |
| 160.0 | 19.151 | 19.703 | 19.948 | 19.764 | 19.089 |
| 162.5 | 18.844 | 19.457 | 19.580 | 19.457 | 18.905 |
| 165.0 | 18.291 | 18.782 | 18.966 | 18.905 | 18.291 |
| 167.5 | 17.616 | 17.800 | 18.168 | 18.046 | 17.616 |
| 170.0 | 16.757 | 16.879 | 17.371 | 17.186 | 16.757 |
| 172.5 | 15.591 | 15.652 | 15.775 | 15.652 | 15.345 |
| 175.0 | 14.056 | 14.240 | 14.240 | 14.117 | 13.810 |
| 177.5 | 13.258 | 13.504 | 13.565 | 13.442 | 12.951 |
| 180.0 | 13.135 | 13.135 | 13.135 | 13.135 | 13.135 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 830.82 | N.A. | 26.30 |
| 0-30 | 1584.58 | N.A. | 50.20 |
| 0-40 | 2142.34 | N.A. | 67.90 |
| 0-60 | 2604.74 | N.A. | 82.50 |
| 0-80 | 2888.16 | N.A. | 91.50 |
| 0-90 | 2965.94 | N.A. | 93.90 |
| 10-90 | 2729.06 | N.A. | 86.40 |
| 20-40 | 1311.52 | N.A. | 41.50 |
| 20-50 | 1568.98 | N.A. | 49.70 |
| 40-70 | 629.48 | N.A. | 19.90 |
| 60-80 | 283.42 | N.A. | 9.00 |
| 70-80 | 116.34 | N.A. | 3.70 |
| 80-90 | 77.77 | N.A. | 2.50 |
| 90-110 | 95.91 | N.A. | 3.00 |
| 90-120 | 125.72 | N.A. | 4.00 |
| 90-130 | 147.44 | N.A. | 4.70 |
| 90-150 | 175.27 | N.A. | 5.60 |
| 90-180 | 191.11 | N.A. | 6.10 |
| 110-180 | 95.19 | N.A. | 3.00 |
| 0-180 | 3157.04 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 236.88 |
| 10-20 | 593.95 |
| 20-30 | 753.76 |
| 30-40 | 557.76 |
| 40-50 | 257.46 |
| 50-60 | 204.94 |
| 60-70 | 167.08 |
| 70-80 | 116.34 |
| 80-90 | 77.77 |
| 90-100 | 55.26 |
| 100-110 | 40.65 |
| 110-120 | 29.81 |
| 120-130 | 21.72 |
| 130-140 | 15.69 |
| 140-150 | 12.14 |
| 150-160 | 9.08 |
| 160-170 | 5.31 |
| 170-180 | 1.45 |

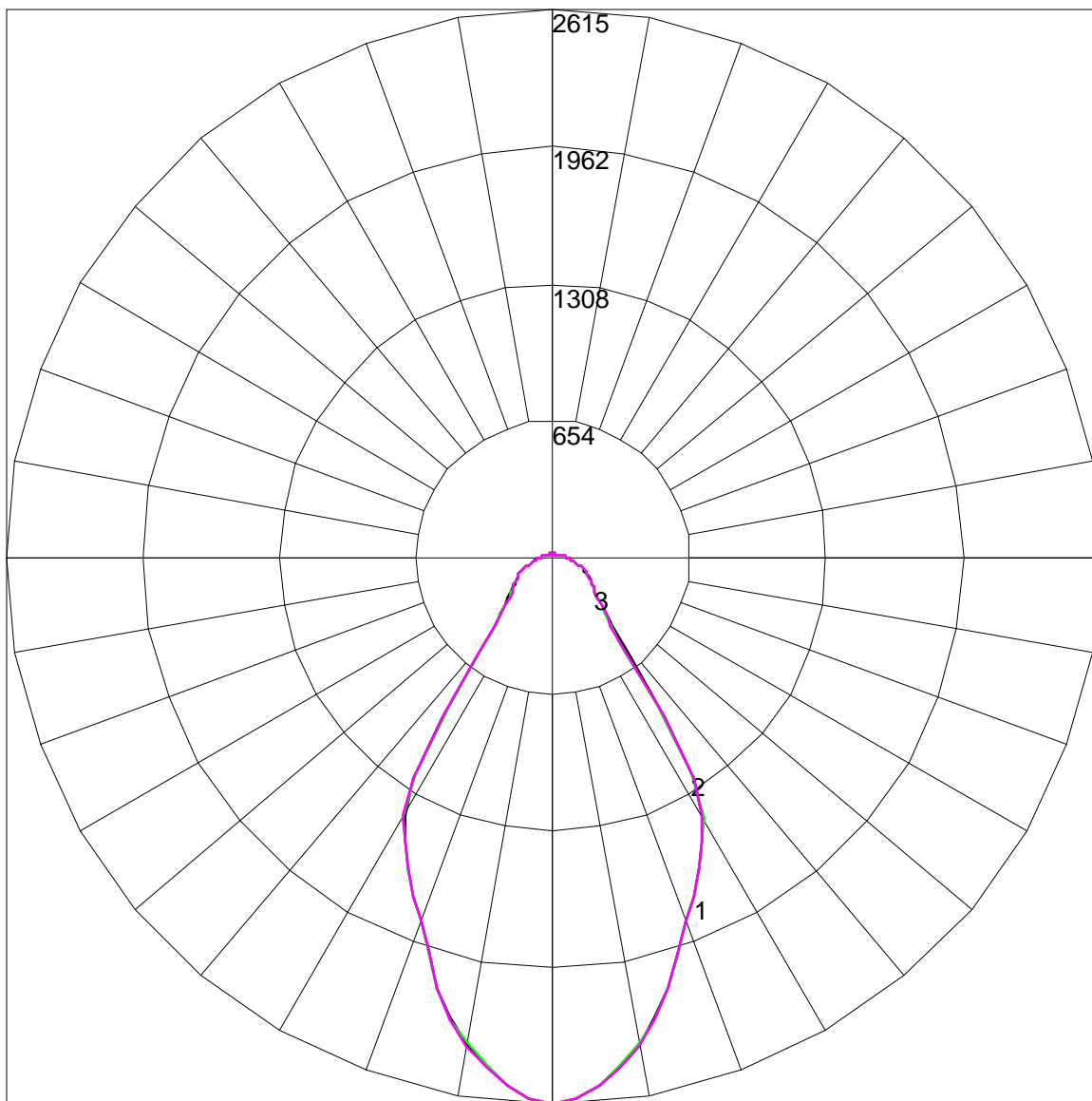
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 114 | 114 | 114 | 114 | 108 | 108 | 108 | 102 | 102 | 102 | 96 | 96 | 96 | 94 |
| 1 | 109 | 105 | 102 | 99 | 106 | 102 | 99 | 96 | 97 | 95 | 92 | 92 | 90 | 88 | 88 | 86 | 85 | 82 |
| 2 | 102 | 95 | 90 | 85 | 99 | 93 | 88 | 83 | 88 | 84 | 81 | 84 | 81 | 78 | 81 | 78 | 75 | 73 |
| 3 | 95 | 86 | 80 | 75 | 92 | 85 | 79 | 74 | 81 | 76 | 72 | 77 | 73 | 70 | 74 | 71 | 68 | 66 |
| 4 | 89 | 79 | 72 | 67 | 86 | 78 | 71 | 66 | 74 | 69 | 64 | 72 | 67 | 63 | 69 | 65 | 62 | 60 |
| 5 | 83 | 73 | 66 | 60 | 81 | 71 | 65 | 60 | 69 | 63 | 58 | 66 | 61 | 57 | 64 | 60 | 56 | 54 |
| 6 | 78 | 67 | 60 | 55 | 76 | 66 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 53 | 60 | 55 | 52 | 50 |
| 7 | 74 | 63 | 55 | 50 | 72 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 56 | 51 | 48 | 46 |
| 8 | 70 | 58 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | 54 | 49 | 45 | 53 | 48 | 44 | 43 |
| 9 | 66 | 55 | 48 | 43 | 64 | 54 | 47 | 43 | 52 | 46 | 42 | 51 | 46 | 42 | 50 | 45 | 41 | 40 |
| 10 | 62 | 51 | 45 | 40 | 61 | 51 | 44 | 40 | 49 | 44 | 40 | 48 | 43 | 39 | 47 | 42 | 39 | 37 |

POLAR GRAPH



Maximum Candela = 2615.463 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (90 - 270)

3 - Vertical Plane Through Horizontal Angles (45 - 225)