

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ATXAL12LEDGV-37L35KEX-XX-AL12-CFG-XX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2017.3.0 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] Apr 16 2018

[UPDATE] Apr 17 2018

[TEST] SP-00456_6_M-37L

[MANUFAC] Spectrum Lighting

[LUMCAT] ATXAL12LEDGV-37L-35K-EX-xx-AL12-CFG-xx

[LUMINAIRE] Nom. 12" Diam. LED Tech Pendant, Spun Aluminum Reflector

[OTHER] Inside of Reflector, Matte White Powder Coat Finish

[OTHER] Outer finish will not affect photometric data

[OTHER] (4) Chrome plated steel arms, support decorative element

[OTHER] Nom. 15" Diam. Sodalime Glass disc, with 12.5" Diam. Frosted Center Pattern

[OTHER] Nom. 77 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] CCT: 3500K, Gen3

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 50K x 1.06, 40K X 1.03, 30K X 0.985, 27K X 0.971

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2807 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 108 |
| Total Luminaire Watts | 26 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.24 |
| Spacing Criterion (Diagonal) | 1.12 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 1.25 ft (Diameter) |
| Luminous Width (90-270) | 1.25 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : ATXAL12LEDGV-37L35KEX-XX-AL12-CFG-XX.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 4495 | 4482 | 4516 |
| 55 | 3678 | 3757 | 3655 |
| 65 | 3161 | 3120 | 3167 |
| 75 | 2948 | 2769 | 2897 |
| 85 | 4034 | 4066 | 4034 |

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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 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 |
| 2.5 | 1766.782 | 1760.430 | 1760.769 | 1759.507 | 1766.993 | 1759.507 | 1760.769 | 1760.430 | 1766.782 | 1760.430 |
| 5.0 | 1743.625 | 1730.920 | 1731.599 | 1729.074 | 1744.046 | 1729.074 | 1731.599 | 1730.920 | 1743.625 | 1730.920 |
| 7.5 | 1668.225 | 1648.965 | 1654.210 | 1653.644 | 1661.514 | 1653.644 | 1654.210 | 1648.965 | 1668.225 | 1648.965 |
| 10.0 | 1592.825 | 1567.010 | 1576.821 | 1578.213 | 1578.981 | 1578.213 | 1576.821 | 1567.010 | 1592.825 | 1567.010 |
| 12.5 | 1469.967 | 1456.455 | 1458.081 | 1460.033 | 1452.697 | 1460.033 | 1458.081 | 1456.455 | 1469.967 | 1456.455 |
| 15.0 | 1347.109 | 1345.900 | 1339.341 | 1341.853 | 1326.413 | 1341.853 | 1339.341 | 1345.900 | 1347.109 | 1345.900 |
| 17.5 | 1349.883 | 1346.444 | 1346.247 | 1342.485 | 1339.898 | 1342.485 | 1346.247 | 1346.444 | 1349.883 | 1346.444 |
| 20.0 | 1352.656 | 1346.987 | 1353.152 | 1343.116 | 1353.383 | 1343.116 | 1353.152 | 1346.987 | 1352.656 | 1346.987 |
| 22.5 | 1411.937 | 1415.542 | 1410.215 | 1408.025 | 1415.872 | 1408.025 | 1410.215 | 1415.542 | 1411.937 | 1415.542 |
| 25.0 | 1471.217 | 1484.097 | 1467.278 | 1472.934 | 1478.360 | 1472.934 | 1467.278 | 1484.097 | 1471.217 | 1484.097 |
| 27.5 | 1501.653 | 1499.253 | 1493.804 | 1499.358 | 1495.525 | 1499.358 | 1493.804 | 1499.253 | 1501.653 | 1499.253 |
| 30.0 | 1532.089 | 1514.408 | 1520.329 | 1525.781 | 1512.690 | 1525.781 | 1520.329 | 1514.408 | 1532.089 | 1514.408 |
| 32.5 | 1391.173 | 1389.319 | 1386.447 | 1397.508 | 1384.200 | 1397.508 | 1386.447 | 1389.319 | 1391.173 | 1389.319 |
| 35.0 | 1250.256 | 1264.230 | 1252.565 | 1269.234 | 1255.709 | 1269.234 | 1252.565 | 1264.230 | 1250.256 | 1264.230 |
| 37.5 | 997.614 | 1005.256 | 999.312 | 1010.386 | 1000.592 | 1010.386 | 999.312 | 1005.256 | 997.614 | 1005.256 |
| 40.0 | 744.972 | 746.282 | 746.058 | 751.538 | 745.474 | 751.538 | 746.058 | 746.282 | 744.972 | 746.282 |
| 42.5 | 553.834 | 554.163 | 553.857 | 556.747 | 554.947 | 556.747 | 553.857 | 554.163 | 553.834 | 554.163 |
| 45.0 | 362.695 | 362.043 | 361.656 | 361.955 | 364.419 | 361.955 | 361.656 | 362.043 | 362.695 | 362.043 |
| 47.5 | 326.504 | 326.070 | 325.085 | 325.466 | 326.844 | 325.466 | 325.085 | 326.070 | 326.504 | 326.070 |
| 50.0 | 290.313 | 290.096 | 288.514 | 288.976 | 289.268 | 288.976 | 288.514 | 290.096 | 290.313 | 290.096 |
| 52.5 | 265.533 | 267.832 | 267.204 | 266.467 | 264.267 | 266.467 | 267.204 | 267.832 | 265.533 | 267.832 |
| 55.0 | 240.753 | 245.567 | 245.893 | 243.958 | 239.266 | 243.958 | 245.893 | 245.567 | 240.753 | 245.567 |
| 57.5 | 218.719 | 220.821 | 221.761 | 220.407 | 215.694 | 220.407 | 221.761 | 220.821 | 218.719 | 220.821 |
| 60.0 | 196.686 | 196.075 | 197.630 | 196.856 | 192.123 | 196.856 | 197.630 | 196.075 | 196.686 | 196.075 |
| 62.5 | 174.561 | 173.115 | 174.048 | 174.958 | 172.432 | 174.958 | 174.048 | 173.115 | 174.561 | 173.115 |
| 65.0 | 152.436 | 150.154 | 150.466 | 153.060 | 152.741 | 153.060 | 150.466 | 150.154 | 152.436 | 150.154 |
| 67.5 | 132.263 | 130.280 | 132.035 | 132.307 | 132.358 | 132.307 | 132.035 | 130.280 | 132.263 | 130.280 |
| 70.0 | 112.089 | 110.405 | 113.603 | 111.553 | 111.974 | 111.553 | 113.603 | 110.405 | 112.089 | 110.405 |
| 72.5 | 99.579 | 96.540 | 97.691 | 97.841 | 98.764 | 97.841 | 97.691 | 96.540 | 99.579 | 96.540 |
| 75.0 | 87.068 | 82.675 | 81.779 | 84.128 | 85.554 | 84.128 | 81.779 | 82.675 | 87.068 | 82.675 |
| 77.5 | 73.305 | 70.681 | 70.756 | 71.893 | 73.101 | 71.893 | 70.756 | 70.681 | 73.305 | 70.681 |
| 80.0 | 59.542 | 58.686 | 59.732 | 59.657 | 60.648 | 59.657 | 59.732 | 58.686 | 59.542 | 58.686 |
| 82.5 | 49.832 | 48.769 | 50.087 | 49.499 | 50.385 | 49.499 | 50.087 | 48.769 | 49.832 | 48.769 |
| 85.0 | 40.122 | 38.852 | 40.441 | 39.341 | 40.122 | 39.341 | 40.441 | 38.852 | 40.122 | 38.852 |
| 87.5 | 25.728 | 25.364 | 26.091 | 25.181 | 25.928 | 25.181 | 26.091 | 25.364 | 25.728 | 25.364 |
| 90.0 | 11.333 | 11.876 | 11.740 | 11.020 | 11.733 | 11.020 | 11.740 | 11.876 | 11.333 | 11.876 |

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 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 | 1789.939 |
| 2.5 | 1760.769 | 1759.507 | 1766.993 | 1759.507 | 1760.769 | 1760.430 | 1766.782 |
| 5.0 | 1731.599 | 1729.074 | 1744.046 | 1729.074 | 1731.599 | 1730.920 | 1743.625 |
| 7.5 | 1654.210 | 1653.644 | 1661.514 | 1653.644 | 1654.210 | 1648.965 | 1668.225 |
| 10.0 | 1576.821 | 1578.213 | 1578.981 | 1578.213 | 1576.821 | 1567.010 | 1592.825 |
| 12.5 | 1458.081 | 1460.033 | 1452.697 | 1460.033 | 1458.081 | 1456.455 | 1469.967 |
| 15.0 | 1339.341 | 1341.853 | 1326.413 | 1341.853 | 1339.341 | 1345.900 | 1347.109 |
| 17.5 | 1346.247 | 1342.485 | 1339.898 | 1342.485 | 1346.247 | 1346.444 | 1349.883 |
| 20.0 | 1353.152 | 1343.116 | 1353.383 | 1343.116 | 1353.152 | 1346.987 | 1352.656 |
| 22.5 | 1410.215 | 1408.025 | 1415.872 | 1408.025 | 1410.215 | 1415.542 | 1411.937 |
| 25.0 | 1467.278 | 1472.934 | 1478.360 | 1472.934 | 1467.278 | 1484.097 | 1471.217 |
| 27.5 | 1493.804 | 1499.358 | 1495.525 | 1499.358 | 1493.804 | 1499.253 | 1501.653 |
| 30.0 | 1520.329 | 1525.781 | 1512.690 | 1525.781 | 1520.329 | 1514.408 | 1532.089 |

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| | | | | | | | |
|-------------|----------|----------|----------|----------|----------|----------|----------|
| 32.5 | 1386.447 | 1397.508 | 1384.200 | 1397.508 | 1386.447 | 1389.319 | 1391.173 |
| 35.0 | 1252.565 | 1269.234 | 1255.709 | 1269.234 | 1252.565 | 1264.230 | 1250.256 |
| 37.5 | 999.312 | 1010.386 | 1000.592 | 1010.386 | 999.312 | 1005.256 | 997.614 |
| 40.0 | 746.058 | 751.538 | 745.474 | 751.538 | 746.058 | 746.282 | 744.972 |
| 42.5 | 553.857 | 556.747 | 554.947 | 556.747 | 553.857 | 554.163 | 553.834 |
| 45.0 | 361.656 | 361.955 | 364.419 | 361.955 | 361.656 | 362.043 | 362.695 |
| 47.5 | 325.085 | 325.466 | 326.844 | 325.466 | 325.085 | 326.070 | 326.504 |
| 50.0 | 288.514 | 288.976 | 289.268 | 288.976 | 288.514 | 290.096 | 290.313 |
| 52.5 | 267.204 | 266.467 | 264.267 | 266.467 | 267.204 | 267.832 | 265.533 |
| 55.0 | 245.893 | 243.958 | 239.266 | 243.958 | 245.893 | 245.567 | 240.753 |
| 57.5 | 221.761 | 220.407 | 215.694 | 220.407 | 221.761 | 220.821 | 218.719 |
| 60.0 | 197.630 | 196.856 | 192.123 | 196.856 | 197.630 | 196.075 | 196.686 |
| 62.5 | 174.048 | 174.958 | 172.432 | 174.958 | 174.048 | 173.115 | 174.561 |
| 65.0 | 150.466 | 153.060 | 152.741 | 153.060 | 150.466 | 150.154 | 152.436 |
| 67.5 | 132.035 | 132.307 | 132.358 | 132.307 | 132.035 | 130.280 | 132.263 |
| 70.0 | 113.603 | 111.553 | 111.974 | 111.553 | 113.603 | 110.405 | 112.089 |
| 72.5 | 97.691 | 97.841 | 98.764 | 97.841 | 97.691 | 96.540 | 99.579 |
| 75.0 | 81.779 | 84.128 | 85.554 | 84.128 | 81.779 | 82.675 | 87.068 |
| 77.5 | 70.756 | 71.893 | 73.101 | 71.893 | 70.756 | 70.681 | 73.305 |
| 80.0 | 59.732 | 59.657 | 60.648 | 59.657 | 59.732 | 58.686 | 59.542 |
| 82.5 | 50.087 | 49.499 | 50.385 | 49.499 | 50.087 | 48.769 | 49.832 |
| 85.0 | 40.441 | 39.341 | 40.122 | 39.341 | 40.441 | 38.852 | 40.122 |
| 87.5 | 26.091 | 25.181 | 25.928 | 25.181 | 26.091 | 25.364 | 25.728 |
| 90.0 | 11.740 | 11.020 | 11.733 | 11.020 | 11.740 | 11.876 | 11.333 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 554.05 | N.A. | 19.70 |
| 0-30 | 1229.78 | N.A. | 43.80 |
| 0-40 | 1972.2 | N.A. | 70.30 |
| 0-60 | 2525.83 | N.A. | 90.00 |
| 0-80 | 2766.42 | N.A. | 98.50 |
| 0-90 | 2807.4 | N.A. | 100.00 |
| 10-90 | 2647.46 | N.A. | 94.30 |
| 20-40 | 1418.15 | N.A. | 50.50 |
| 20-50 | 1754.28 | N.A. | 62.50 |
| 40-70 | 704.79 | N.A. | 25.10 |
| 60-80 | 240.58 | N.A. | 8.60 |
| 70-80 | 89.43 | N.A. | 3.20 |
| 80-90 | 40.98 | N.A. | 1.50 |
| 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 | 2807.4 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 159.93 |
| 10-20 | 394.12 |
| 20-30 | 675.72 |
| 30-40 | 742.43 |
| 40-50 | 336.13 |
| 50-60 | 217.50 |
| 60-70 | 151.16 |
| 70-80 | 89.43 |
| 80-90 | 40.98 |
| 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 |

IES INDOOR REPORT

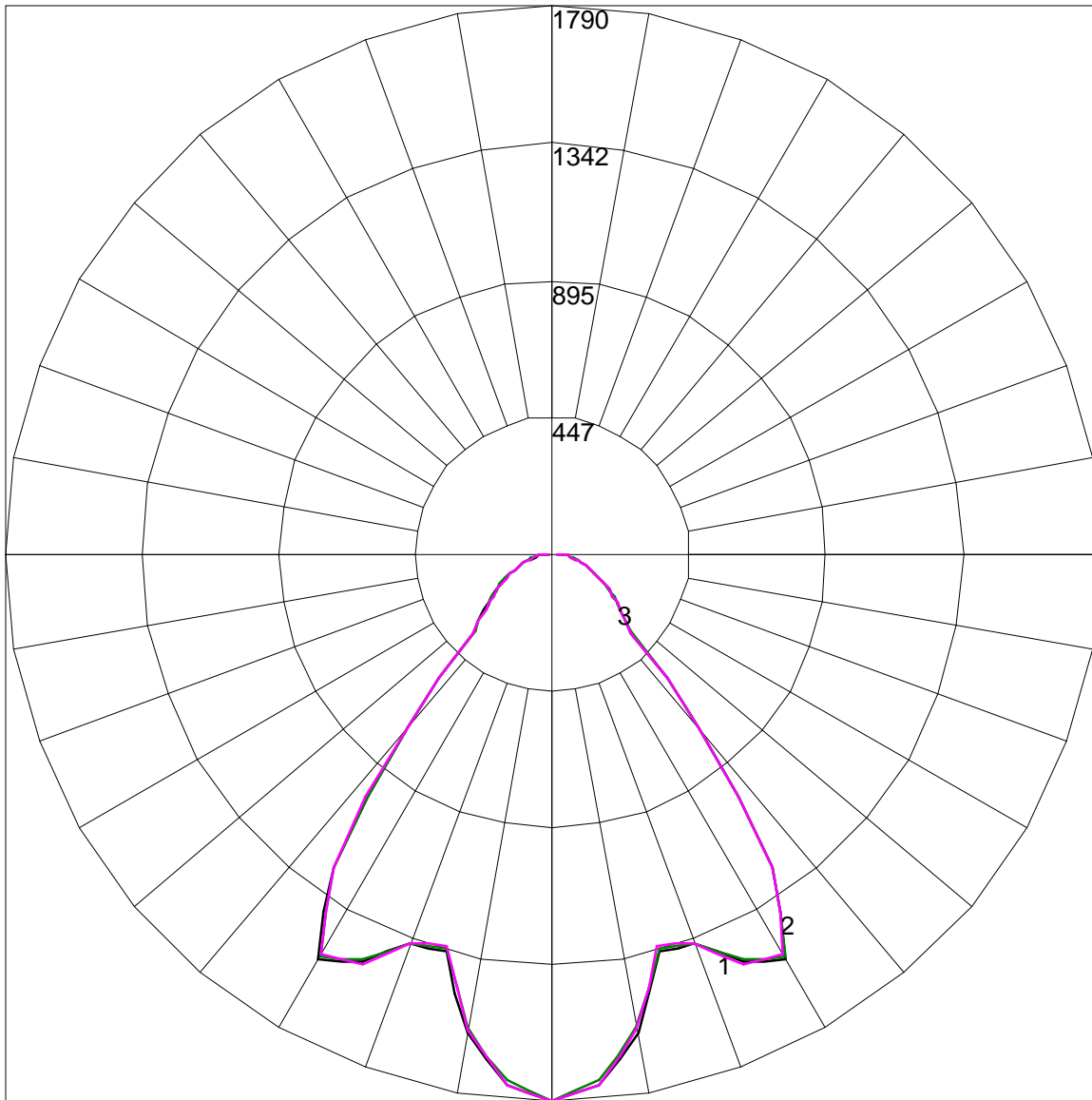
PHOTOMETRIC FILENAME : ATXAL12LEDGV-37L35KEX-XX-AL12-CFG-XX.IES

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 | 111 | 107 | 104 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 103 | 96 | 91 | 86 | 101 | 95 | 90 | 85 | 91 | 87 | 83 | 88 | 85 | 81 | 85 | 82 | 80 | 78 |
| 3 | 96 | 87 | 81 | 75 | 94 | 86 | 80 | 75 | 83 | 78 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 |
| 4 | 89 | 79 | 72 | 66 | 87 | 78 | 71 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 72 | 67 | 64 | 62 |
| 5 | 83 | 72 | 65 | 59 | 81 | 71 | 64 | 59 | 69 | 63 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 |
| 6 | 78 | 67 | 59 | 53 | 76 | 66 | 58 | 53 | 64 | 58 | 53 | 62 | 57 | 52 | 61 | 56 | 52 | 50 |
| 7 | 73 | 61 | 54 | 48 | 71 | 61 | 53 | 48 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 51 | 47 | 46 |
| 8 | 69 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 43 | 42 |
| 9 | 64 | 53 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 40 | 38 |
| 10 | 61 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 |

POLAR GRAPH



Maximum Candela = 1789.939 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

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