

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : ALX16LX-100L35KEX-AL16-1MR.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2018.1.0 see: www.ltioptics.com/ies

[ISSUE DATE]

[TEST DATE] 7/27/2018

[UPDATE] 8/3/2018

[TEST] SP-00467\_21\_M-100L

[MANUFAC] Spectrum Lighting

[LUMCAT] ALX16LX-100L-35K-EX-AL16-1MR-xx

[LUMINAIRE] 16" Diam. Alum. Reflector LED Tech Pendant w/ Formed Metal Ring

[OTHER] 22" outside diam. metal ring, Matte White Finish, 16" diam. Open Center

[OTHER] Matte white, inside reflector finish

[OTHER] 72 Deg. Beam Angle

[OTHER] 97.2% Downlight, 2.8% Uplight

[LAMP] N/A

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.979, 27K x 0.959

[OTHER] Adapted from Intertek LX-AL16 test luminaire ref. CRT1709151315-001-006

[OTHER] This report updated by Spectrum Lighting

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 8110               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 100                |
| Total Luminaire Watts           | 81.06              |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.12               |
| Spacing Criterion (90-270)      | 1.12               |
| Spacing Criterion (Diagonal)    | 1.06               |
| Basic Luminous Shape            | Circular w/ Sides  |
| Luminous Length (0-180)         | 1.33 ft (Diameter) |
| Luminous Width (90-270)         | 1.33 ft (Diameter) |
| Luminous Height                 | 0.92 ft            |

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**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 5488             | 5537              | 5569              |
| 55                  | 4067             | 4118              | 4110              |
| 65                  | 2863             | 2888              | 2881              |
| 75                  | 1583             | 1561              | 1556              |
| 85                  | 249              | 241               | 254               |

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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> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| <b>0.0</b>   | 5346.338   | 5346.338    | 5346.338    | 5346.338    | 5346.338    | 5346.338     | 5346.338     | 5346.338     | 5346.338     | 5346.338     |
| <b>2.5</b>   | 5359.553   | 5343.677    | 5345.195    | 5349.748    | 5367.283    | 5349.748     | 5345.195     | 5343.677     | 5359.553     | 5343.677     |
| <b>5.0</b>   | 5372.760   | 5341.009    | 5344.044    | 5353.157    | 5388.220    | 5353.157     | 5344.044     | 5341.009     | 5372.760     | 5341.009     |
| <b>7.5</b>   | 5305.417   | 5285.109    | 5293.692    | 5296.036    | 5322.437    | 5296.036     | 5293.692     | 5285.109     | 5305.417     | 5285.109     |
| <b>10.0</b>  | 5238.075   | 5229.208    | 5243.341    | 5238.908    | 5256.647    | 5238.908     | 5243.341     | 5229.208     | 5238.075     | 5229.208     |
| <b>12.5</b>  | 5099.005   | 5097.735    | 5116.137    | 5082.085    | 5132.740    | 5082.085     | 5116.137     | 5097.735     | 5099.005     | 5097.735     |
| <b>15.0</b>  | 4959.929   | 4966.254    | 4988.934    | 4925.255    | 5008.826    | 4925.255     | 4988.934     | 4966.254     | 4959.929     | 4966.254     |
| <b>17.5</b>  | 4741.036   | 4770.472    | 4786.666    | 4733.158    | 4802.132    | 4733.158     | 4786.666     | 4770.472     | 4741.036     | 4770.472     |
| <b>20.0</b>  | 4522.137   | 4574.684    | 4584.390    | 4541.055    | 4595.437    | 4541.055     | 4584.390     | 4574.684     | 4522.137     | 4574.684     |
| <b>22.5</b>  | 4354.062   | 4388.905    | 4398.908    | 4372.599    | 4406.313    | 4372.599     | 4398.908     | 4388.905     | 4354.062     | 4388.905     |
| <b>25.0</b>  | 4185.980   | 4203.119    | 4213.418    | 4204.143    | 4217.181    | 4204.143     | 4213.418     | 4203.119     | 4185.980     | 4203.119     |
| <b>27.5</b>  | 4051.181   | 4069.831    | 4064.615    | 4050.617    | 4060.669    | 4050.617     | 4064.615     | 4069.831     | 4051.181     | 4069.831     |
| <b>30.0</b>  | 3916.376   | 3936.543    | 3915.804    | 3897.083    | 3904.156    | 3897.083     | 3915.804     | 3936.543     | 3916.376     | 3936.543     |
| <b>32.5</b>  | 3477.680   | 3491.537    | 3494.071    | 3496.767    | 3498.123    | 3496.767     | 3494.071     | 3491.537     | 3477.680     | 3491.537     |
| <b>35.0</b>  | 3038.984   | 3046.530    | 3072.331    | 3096.452    | 3092.089    | 3096.452     | 3072.331     | 3046.530     | 3038.984     | 3046.530     |
| <b>37.5</b>  | 2395.691   | 2405.058    | 2431.473    | 2444.454    | 2435.567    | 2444.454     | 2431.473     | 2405.058     | 2395.691     | 2405.058     |
| <b>40.0</b>  | 1752.397   | 1763.585    | 1790.614    | 1792.450    | 1779.045    | 1792.450     | 1790.614     | 1763.585     | 1752.397     | 1763.585     |
| <b>42.5</b>  | 1347.676   | 1362.521    | 1370.985    | 1372.192    | 1367.907    | 1372.192     | 1370.985     | 1362.521     | 1347.676     | 1362.521     |
| <b>45.0</b>  | 942.948    | 961.457     | 951.356     | 951.934     | 956.763     | 951.934      | 951.356      | 961.457      | 942.948      | 961.457      |
| <b>47.5</b>  | 874.610    | 882.827     | 877.977     | 872.097     | 872.817     | 872.097      | 877.977      | 882.827      | 874.610      | 882.827      |
| <b>50.0</b>  | 806.265    | 804.190     | 804.599     | 792.253     | 788.864     | 792.253      | 804.599      | 804.190      | 806.265      | 804.190      |
| <b>52.5</b>  | 743.383    | 747.470     | 746.814     | 740.680     | 738.237     | 740.680      | 746.814      | 747.470      | 743.383      | 747.470      |
| <b>55.0</b>  | 680.502    | 690.751     | 689.022     | 689.107     | 687.610     | 689.107      | 689.022      | 690.751      | 680.502      | 690.751      |
| <b>57.5</b>  | 625.329    | 631.075     | 631.336     | 629.966     | 631.879     | 629.966      | 631.336      | 631.075      | 625.329      | 631.075      |
| <b>60.0</b>  | 570.155    | 571.405     | 573.657     | 570.826     | 576.156     | 570.826      | 573.657      | 571.405      | 570.155      | 571.405      |
| <b>62.5</b>  | 510.846    | 513.761     | 514.559     | 512.215     | 515.300     | 512.215      | 514.559      | 513.761      | 510.846      | 513.761      |
| <b>65.0</b>  | 451.529    | 456.117     | 455.454     | 453.597     | 454.444     | 453.597      | 455.454      | 456.117      | 451.529      | 456.117      |
| <b>67.5</b>  | 393.419    | 397.873     | 396.998     | 394.506     | 395.163     | 394.506      | 396.998      | 397.873      | 393.419      | 397.873      |
| <b>70.0</b>  | 335.303    | 339.623     | 338.543     | 335.415     | 335.881     | 335.415      | 338.543      | 339.623      | 335.303      | 339.623      |
| <b>72.5</b>  | 281.111    | 280.306     | 281.146     | 279.261     | 279.438     | 279.261      | 281.146      | 280.306      | 281.111      | 280.306      |
| <b>75.0</b>  | 226.919    | 220.982     | 223.742     | 223.100     | 222.987     | 223.100      | 223.742      | 220.982      | 226.919      | 220.982      |
| <b>77.5</b>  | 173.510    | 169.832     | 171.273     | 169.938     | 171.470     | 169.938      | 171.273      | 169.832      | 173.510      | 169.832      |
| <b>80.0</b>  | 120.102    | 118.683     | 118.803     | 116.777     | 119.954     | 116.777      | 118.803      | 118.683      | 120.102      | 118.683      |
| <b>82.5</b>  | 75.588     | 74.642      | 74.416      | 73.795      | 75.821      | 73.795       | 74.416       | 74.642       | 75.588       | 74.642       |
| <b>85.0</b>  | 31.074     | 30.594      | 30.029      | 30.813      | 31.688      | 30.813       | 30.029       | 30.594       | 31.074       | 30.594       |
| <b>87.5</b>  | 15.897     | 15.650      | 15.375      | 15.883      | 16.384      | 15.883       | 15.375       | 15.650       | 15.897       | 15.650       |
| <b>90.0</b>  | 0.720      | 0.706       | 0.713       | 0.946       | 1.080       | 0.946        | 0.713        | 0.706        | 0.720        | 0.706        |
| <b>92.5</b>  | 1.800      | 1.546       | 1.708       | 1.906       | 1.842       | 1.906        | 1.708        | 1.546        | 1.800        | 1.546        |
| <b>95.0</b>  | 2.880      | 2.386       | 2.697       | 2.859       | 2.598       | 2.859        | 2.697        | 2.386        | 2.880        | 2.386        |
| <b>97.5</b>  | 4.158      | 4.038       | 4.165       | 4.193       | 4.200       | 4.193        | 4.165        | 4.038        | 4.158        | 4.038        |
| <b>100.0</b> | 5.435      | 5.682       | 5.633       | 5.520       | 5.795       | 5.520        | 5.633        | 5.682        | 5.435        | 5.682        |
| <b>102.5</b> | 8.683      | 8.760       | 9.205       | 9.120       | 9.487       | 9.120        | 9.205        | 8.760        | 8.683        | 8.760        |
| <b>105.0</b> | 11.923     | 11.831      | 12.777      | 12.713      | 13.172      | 12.713       | 12.777       | 11.831       | 11.923       | 11.831       |
| <b>107.5</b> | 18.396     | 17.916      | 18.184      | 18.544      | 18.170      | 18.544       | 18.184       | 17.916       | 18.396       | 17.916       |
| <b>110.0</b> | 24.869     | 24.001      | 23.591      | 24.368      | 23.161      | 24.368       | 23.591       | 24.001       | 24.869       | 24.001       |
| <b>112.5</b> | 29.012     | 27.968      | 27.685      | 28.137      | 28.624      | 28.137       | 27.685       | 27.968       | 29.012       | 27.968       |
| <b>115.0</b> | 33.156     | 31.935      | 31.780      | 31.907      | 34.081      | 31.907       | 31.780       | 31.935       | 33.156       | 31.935       |
| <b>117.5</b> | 36.735     | 35.719      | 34.356      | 35.231      | 35.351      | 35.231       | 34.356       | 35.719       | 36.735       | 35.719       |
| <b>120.0</b> | 40.314     | 39.495      | 36.933      | 38.556      | 36.615      | 38.556       | 36.933       | 39.495       | 40.314       | 39.495       |
| <b>122.5</b> | 38.853     | 41.535      | 39.643      | 39.728      | 38.563      | 39.728       | 39.643       | 41.535       | 38.853       | 41.535       |
| <b>125.0</b> | 37.392     | 43.568      | 42.347      | 40.893      | 40.505      | 40.893       | 42.347       | 43.568       | 37.392       | 43.568       |
| <b>127.5</b> | 42.658     | 46.427      | 44.041      | 43.215      | 43.695      | 43.215       | 44.041       | 46.427       | 42.658       | 46.427       |
| <b>130.0</b> | 47.916     | 49.286      | 45.728      | 45.531      | 46.886      | 45.531       | 45.728       | 49.286       | 47.916       | 49.286       |
| <b>132.5</b> | 49.907     | 51.128      | 48.884      | 48.968      | 48.728      | 48.968       | 48.884       | 51.128       | 49.907       | 51.128       |

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**CANDELA TABULATION - (Cont.)**

|       |        |        |        |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 135.0 | 51.898 | 52.964 | 52.032 | 52.399 | 50.571 | 52.399 | 52.032 | 52.964 | 51.898 | 52.964 |
| 137.5 | 54.488 | 56.140 | 53.790 | 54.291 | 53.288 | 54.291 | 53.790 | 56.140 | 54.488 | 56.140 |
| 140.0 | 57.079 | 59.310 | 55.547 | 56.183 | 55.999 | 56.183 | 55.547 | 59.310 | 57.079 | 59.310 |
| 142.5 | 59.973 | 60.983 | 58.752 | 59.366 | 60.432 | 59.366 | 58.752 | 60.983 | 59.973 | 60.983 |
| 145.0 | 62.860 | 62.656 | 61.950 | 62.550 | 64.865 | 62.550 | 61.950 | 62.656 | 62.860 | 62.656 |
| 147.5 | 65.811 | 64.223 | 64.004 | 63.340 | 64.244 | 63.340 | 64.004 | 64.223 | 65.811 | 64.223 |
| 150.0 | 68.762 | 65.790 | 66.051 | 64.131 | 63.616 | 64.131 | 66.051 | 65.790 | 68.762 | 65.790 |
| 152.5 | 67.371 | 65.522 | 67.872 | 66.319 | 66.249 | 66.319 | 67.872 | 65.522 | 67.371 | 65.522 |
| 155.0 | 65.980 | 65.253 | 69.694 | 68.508 | 68.882 | 68.508 | 69.694 | 65.253 | 65.980 | 65.253 |
| 157.5 | 68.818 | 70.929 | 72.355 | 70.661 | 69.905 | 70.661 | 72.355 | 70.929 | 68.818 | 70.929 |
| 160.0 | 71.656 | 76.604 | 75.016 | 72.814 | 70.922 | 72.814 | 75.016 | 76.604 | 71.656 | 76.604 |
| 162.5 | 72.616 | 75.842 | 74.663 | 75.143 | 74.472 | 75.143 | 74.663 | 75.842 | 72.616 | 75.842 |
| 165.0 | 73.576 | 75.072 | 74.310 | 77.473 | 78.016 | 77.473 | 74.310 | 75.072 | 73.576 | 75.072 |
| 167.5 | 79.237 | 80.550 | 78.800 | 79.795 | 77.063 | 79.795 | 78.800 | 80.550 | 79.237 | 80.550 |
| 170.0 | 84.899 | 86.021 | 83.289 | 82.117 | 76.110 | 82.117 | 83.289 | 86.021 | 84.899 | 86.021 |
| 172.5 | 83.367 | 79.993 | 77.945 | 83.473 | 76.011 | 83.473 | 77.945 | 79.993 | 83.367 | 79.993 |
| 175.0 | 81.835 | 73.964 | 72.602 | 84.821 | 75.905 | 84.821 | 72.602 | 73.964 | 81.835 | 73.964 |
| 177.5 | 80.981 | 77.042 | 76.364 | 82.470 | 78.016 | 82.470 | 76.364 | 77.042 | 80.981 | 77.042 |
| 180.0 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 |

**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  | 5346.338     | 5346.338     | 5346.338     | 5346.338     | 5346.338     | 5346.338     | 5346.338     |
| 2.5  | 5345.195     | 5349.748     | 5367.283     | 5349.748     | 5345.195     | 5343.677     | 5359.553     |
| 5.0  | 5344.044     | 5353.157     | 5388.220     | 5353.157     | 5344.044     | 5341.009     | 5372.760     |
| 7.5  | 5293.692     | 5296.036     | 5322.437     | 5296.036     | 5293.692     | 5285.109     | 5305.417     |
| 10.0 | 5243.341     | 5238.908     | 5256.647     | 5238.908     | 5243.341     | 5229.208     | 5238.075     |
| 12.5 | 5116.137     | 5082.085     | 5132.740     | 5082.085     | 5116.137     | 5097.735     | 5099.005     |
| 15.0 | 4988.934     | 4925.255     | 5008.826     | 4925.255     | 4988.934     | 4966.254     | 4959.929     |
| 17.5 | 4786.666     | 4733.158     | 4802.132     | 4733.158     | 4786.666     | 4770.472     | 4741.036     |
| 20.0 | 4584.390     | 4541.055     | 4595.437     | 4541.055     | 4584.390     | 4574.684     | 4522.137     |
| 22.5 | 4398.908     | 4372.599     | 4406.313     | 4372.599     | 4398.908     | 4388.905     | 4354.062     |
| 25.0 | 4213.418     | 4204.143     | 4217.181     | 4204.143     | 4213.418     | 4203.119     | 4185.980     |
| 27.5 | 4064.615     | 4050.617     | 4060.669     | 4050.617     | 4064.615     | 4069.831     | 4051.181     |
| 30.0 | 3915.804     | 3897.083     | 3904.156     | 3897.083     | 3915.804     | 3936.543     | 3916.376     |
| 32.5 | 3494.071     | 3496.767     | 3498.123     | 3496.767     | 3494.071     | 3491.537     | 3477.680     |
| 35.0 | 3072.331     | 3096.452     | 3092.089     | 3096.452     | 3072.331     | 3046.530     | 3038.984     |
| 37.5 | 2431.473     | 2444.454     | 2435.567     | 2444.454     | 2431.473     | 2405.058     | 2395.691     |
| 40.0 | 1790.614     | 1792.450     | 1779.045     | 1792.450     | 1790.614     | 1763.585     | 1752.397     |
| 42.5 | 1370.985     | 1372.192     | 1367.907     | 1372.192     | 1370.985     | 1362.521     | 1347.676     |
| 45.0 | 951.356      | 951.934      | 956.763      | 951.934      | 951.356      | 961.457      | 942.948      |
| 47.5 | 877.977      | 872.097      | 872.817      | 872.097      | 877.977      | 882.827      | 874.610      |
| 50.0 | 804.599      | 792.253      | 788.864      | 792.253      | 804.599      | 804.190      | 806.265      |
| 52.5 | 746.814      | 740.680      | 738.237      | 740.680      | 746.814      | 747.470      | 743.383      |
| 55.0 | 689.022      | 689.107      | 687.610      | 689.107      | 689.022      | 690.751      | 680.502      |
| 57.5 | 631.336      | 629.966      | 631.879      | 629.966      | 631.336      | 631.075      | 625.329      |
| 60.0 | 573.657      | 570.826      | 576.156      | 570.826      | 573.657      | 571.405      | 570.155      |
| 62.5 | 514.559      | 512.215      | 515.300      | 512.215      | 514.559      | 513.761      | 510.846      |
| 65.0 | 455.454      | 453.597      | 454.444      | 453.597      | 455.454      | 456.117      | 451.529      |
| 67.5 | 396.998      | 394.506      | 395.163      | 394.506      | 396.998      | 397.873      | 393.419      |
| 70.0 | 338.543      | 335.415      | 335.881      | 335.415      | 338.543      | 339.623      | 335.303      |
| 72.5 | 281.146      | 279.261      | 279.438      | 279.261      | 281.146      | 280.306      | 281.111      |
| 75.0 | 223.742      | 223.100      | 222.987      | 223.100      | 223.742      | 220.982      | 226.919      |
| 77.5 | 171.273      | 169.938      | 171.470      | 169.938      | 171.273      | 169.832      | 173.510      |
| 80.0 | 118.803      | 116.777      | 119.954      | 116.777      | 118.803      | 118.683      | 120.102      |

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**CANDELA TABULATION - (Cont.)**

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 82.5  | 74.416 | 73.795 | 75.821 | 73.795 | 74.416 | 74.642 | 75.588 |
| 85.0  | 30.029 | 30.813 | 31.688 | 30.813 | 30.029 | 30.594 | 31.074 |
| 87.5  | 15.375 | 15.883 | 16.384 | 15.883 | 15.375 | 15.650 | 15.897 |
| 90.0  | 0.713  | 0.946  | 1.080  | 0.946  | 0.713  | 0.706  | 0.720  |
| 92.5  | 1.708  | 1.906  | 1.842  | 1.906  | 1.708  | 1.546  | 1.800  |
| 95.0  | 2.697  | 2.859  | 2.598  | 2.859  | 2.697  | 2.386  | 2.880  |
| 97.5  | 4.165  | 4.193  | 4.200  | 4.193  | 4.165  | 4.038  | 4.158  |
| 100.0 | 5.633  | 5.520  | 5.795  | 5.520  | 5.633  | 5.682  | 5.435  |
| 102.5 | 9.205  | 9.120  | 9.487  | 9.120  | 9.205  | 8.760  | 8.683  |
| 105.0 | 12.777 | 12.713 | 13.172 | 12.713 | 12.777 | 11.831 | 11.923 |
| 107.5 | 18.184 | 18.544 | 18.170 | 18.544 | 18.184 | 17.916 | 18.396 |
| 110.0 | 23.591 | 24.368 | 23.161 | 24.368 | 23.591 | 24.001 | 24.869 |
| 112.5 | 27.685 | 28.137 | 28.624 | 28.137 | 27.685 | 27.968 | 29.012 |
| 115.0 | 31.780 | 31.907 | 34.081 | 31.907 | 31.780 | 31.935 | 33.156 |
| 117.5 | 34.356 | 35.231 | 35.351 | 35.231 | 34.356 | 35.719 | 36.735 |
| 120.0 | 36.933 | 38.556 | 36.615 | 38.556 | 36.933 | 39.495 | 40.314 |
| 122.5 | 39.643 | 39.728 | 38.563 | 39.728 | 39.643 | 41.535 | 38.853 |
| 125.0 | 42.347 | 40.893 | 40.505 | 40.893 | 42.347 | 43.568 | 37.392 |
| 127.5 | 44.041 | 43.215 | 43.695 | 43.215 | 44.041 | 46.427 | 42.658 |
| 130.0 | 45.728 | 45.531 | 46.886 | 45.531 | 45.728 | 49.286 | 47.916 |
| 132.5 | 48.884 | 48.968 | 48.728 | 48.968 | 48.884 | 51.128 | 49.907 |
| 135.0 | 52.032 | 52.399 | 50.571 | 52.399 | 52.032 | 52.964 | 51.898 |
| 137.5 | 53.790 | 54.291 | 53.288 | 54.291 | 53.790 | 56.140 | 54.488 |
| 140.0 | 55.547 | 56.183 | 55.999 | 56.183 | 55.547 | 59.310 | 57.079 |
| 142.5 | 58.752 | 59.366 | 60.432 | 59.366 | 58.752 | 60.983 | 59.973 |
| 145.0 | 61.950 | 62.550 | 64.865 | 62.550 | 61.950 | 62.656 | 62.860 |
| 147.5 | 64.004 | 63.340 | 64.244 | 63.340 | 64.004 | 64.223 | 65.811 |
| 150.0 | 66.051 | 64.131 | 63.616 | 64.131 | 66.051 | 65.790 | 68.762 |
| 152.5 | 67.872 | 66.319 | 66.249 | 66.319 | 67.872 | 65.522 | 67.371 |
| 155.0 | 69.694 | 68.508 | 68.882 | 68.508 | 69.694 | 65.253 | 65.980 |
| 157.5 | 72.355 | 70.661 | 69.905 | 70.661 | 72.355 | 70.929 | 68.818 |
| 160.0 | 75.016 | 72.814 | 70.922 | 72.814 | 75.016 | 76.604 | 71.656 |
| 162.5 | 74.663 | 75.143 | 74.472 | 75.143 | 74.663 | 75.842 | 72.616 |
| 165.0 | 74.310 | 77.473 | 78.016 | 77.473 | 74.310 | 75.072 | 73.576 |
| 167.5 | 78.800 | 79.795 | 77.063 | 79.795 | 78.800 | 80.550 | 79.237 |
| 170.0 | 83.289 | 82.117 | 76.110 | 82.117 | 83.289 | 86.021 | 84.899 |
| 172.5 | 77.945 | 83.473 | 76.011 | 83.473 | 77.945 | 79.993 | 83.367 |
| 175.0 | 72.602 | 84.821 | 75.905 | 84.821 | 72.602 | 73.964 | 81.835 |
| 177.5 | 76.364 | 82.470 | 78.016 | 82.470 | 76.364 | 77.042 | 80.981 |
| 180.0 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 | 79.767 |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ALX16LX-100L35KEX-AL16-1MR.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1895.55 | N.A.  | 23.40  |
| 0-30    | 3841.29 | N.A.  | 47.40  |
| 0-40    | 5673.61 | N.A.  | 70.00  |
| 0-60    | 7146.05 | N.A.  | 88.10  |
| 0-80    | 7833.64 | N.A.  | 96.60  |
| 0-90    | 7882.8  | N.A.  | 97.20  |
| 10-90   | 7376.19 | N.A.  | 91.00  |
| 20-40   | 3778.05 | N.A.  | 46.60  |
| 20-50   | 4636.01 | N.A.  | 57.20  |
| 40-70   | 1922.26 | N.A.  | 23.70  |
| 60-80   | 687.60  | N.A.  | 8.50   |
| 70-80   | 237.78  | N.A.  | 2.90   |
| 80-90   | 49.16   | N.A.  | 0.60   |
| 90-110  | 17.56   | N.A.  | 0.20   |
| 90-120  | 48.98   | N.A.  | 0.60   |
| 90-130  | 86.64   | N.A.  | 1.10   |
| 90-150  | 165.68  | N.A.  | 2.00   |
| 90-180  | 226.72  | N.A.  | 2.80   |
| 110-180 | 209.16  | N.A.  | 2.60   |
| 0-180   | 8109.53 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 506.61  |
| 10-20   | 1388.95 |
| 20-30   | 1945.73 |
| 30-40   | 1832.32 |
| 40-50   | 857.96  |
| 50-60   | 614.49  |
| 60-70   | 449.82  |
| 70-80   | 237.78  |
| 80-90   | 49.16   |
| 90-100  | 3.21    |
| 100-110 | 14.35   |
| 110-120 | 31.42   |
| 120-130 | 37.66   |
| 130-140 | 40.21   |
| 140-150 | 38.83   |
| 150-160 | 31.70   |
| 160-170 | 21.71   |
| 170-180 | 7.64    |

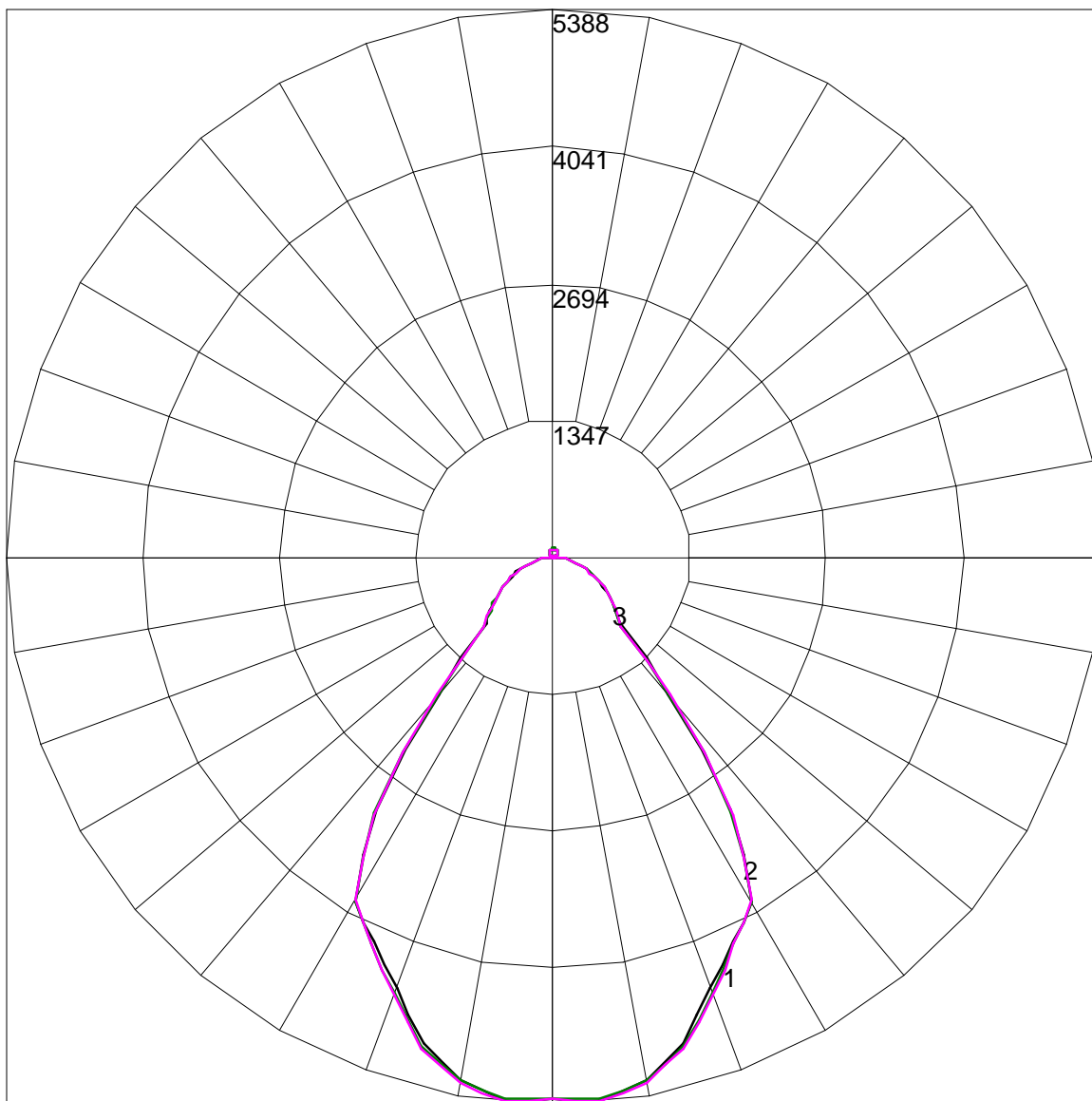
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : ALX16LX-100L35KEX-AL16-1MR.IES**

**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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1  | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99  | 100 | 97  | 95  | 96  | 94  | 92  | 92 | 90 | 89 | 87 |
| 2  | 103 | 97  | 91  | 87  | 100 | 95  | 90  | 86  | 91  | 87  | 83  | 87  | 84  | 81  | 84 | 81 | 79 | 77 |
| 3  | 96  | 88  | 81  | 76  | 94  | 86  | 80  | 75  | 83  | 78  | 74  | 80  | 76  | 72  | 77 | 74 | 71 | 69 |
| 4  | 90  | 80  | 73  | 68  | 87  | 79  | 72  | 67  | 76  | 70  | 66  | 73  | 69  | 65  | 71 | 67 | 64 | 62 |
| 5  | 84  | 73  | 66  | 61  | 82  | 72  | 65  | 60  | 70  | 64  | 59  | 68  | 63  | 58  | 66 | 61 | 58 | 56 |
| 6  | 79  | 68  | 60  | 55  | 77  | 66  | 60  | 54  | 65  | 58  | 54  | 63  | 57  | 53  | 61 | 56 | 53 | 51 |
| 7  | 74  | 62  | 55  | 50  | 72  | 62  | 55  | 50  | 60  | 54  | 49  | 58  | 53  | 49  | 57 | 52 | 48 | 46 |
| 8  | 69  | 58  | 51  | 46  | 68  | 57  | 50  | 46  | 56  | 50  | 45  | 54  | 49  | 45  | 53 | 48 | 44 | 43 |
| 9  | 65  | 54  | 47  | 42  | 64  | 53  | 47  | 42  | 52  | 46  | 42  | 51  | 45  | 41  | 50 | 45 | 41 | 39 |
| 10 | 62  | 50  | 44  | 39  | 61  | 50  | 43  | 39  | 49  | 43  | 39  | 48  | 42  | 38  | 47 | 42 | 38 | 37 |

POLAR GRAPH



Maximum Candela = 5388.22 Located At Horizontal Angle = 90, Vertical Angle = 5  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 2 - Vertical Plane Through Horizontal Angles (45 - 225)  
# 3 - Vertical Plane Through Horizontal Angles (90 - 270)