**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : APX24LL40-UNV-W-LFP.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] FO33739.PSO
[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY
[ISSUEDATE] 10/29/14
[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI
[LUMCAT] APX24LL40-UNV-W-LFP
[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS NO RESISTORS WIDE OPTICS DP-FR50 LENS
[LAMP] LED. LUMINAIRE OUTPUT = 22190 LMS
[TESTDATE] 10/29/14

**CHARACTERISTICS**



| | |
|---|---|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 22190 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 116 |
| Total Luminaire Watts | 190.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.58 |
| Spacing Criterion (90-270) | 1.66 |
| Spacing Criterion (Diagonal) | 1.60 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.29 ft |
| Luminous Width (90-270) | 1.27 ft |
| Luminous Height | 0.50 ft |

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

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---|---|---|---|
| 45 | 13029 | 11708 | 11733 |
| 55 | 10402 | 8998 | 8885 |
| 65 | 7562 | 6064 | 6411 |
| 75 | 5022 | 3821 | 3904 |
| 85 | 2150 | 2017 | 2248 |

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Calculations based on published IES Methods and recommendations, values rounded for display purposes.
Results derived from content of manufacturers photometric file.

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**CANDELA TABULATION**

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 | 112.5 | 135.0 | 157.5 | 180.0 | 202.5 |
|---|---|---|---|---|---|---|---|---|---|---|
| **0.0** | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 |
| **2.5** | 5979.78 | 5988.55 | 6007.08 | 6015.83 | 6022.20 | 6015.83 | 6007.08 | 5988.55 | 5979.78 | 5988.55 |
| **5.0** | 6036.89 | 6040.38 | 6055.57 | 6063.82 | 6060.26 | 6063.82 | 6055.57 | 6040.38 | 6036.89 | 6040.38 |
| **7.5** | 6121.12 | 6119.64 | 6128.23 | 6126.85 | 6123.60 | 6126.85 | 6128.23 | 6119.64 | 6121.12 | 6119.64 |
| **10.0** | 6230.18 | 6230.40 | 6222.74 | 6221.30 | 6207.29 | 6221.30 | 6222.74 | 6230.40 | 6230.18 | 6230.40 |
| **12.5** | 6353.89 | 6355.51 | 6341.50 | 6320.11 | 6303.41 | 6320.11 | 6341.50 | 6355.51 | 6353.89 | 6355.51 |
| **15.0** | 6483.76 | 6489.94 | 6469.68 | 6437.26 | 6410.92 | 6437.26 | 6469.68 | 6489.94 | 6483.76 | 6489.94 |
| **17.5** | 6608.25 | 6623.85 | 6596.59 | 6558.42 | 6527.85 | 6558.42 | 6596.59 | 6623.85 | 6608.25 | 6623.85 |
| **20.0** | 6715.04 | 6738.77 | 6718.65 | 6680.44 | 6649.82 | 6680.44 | 6718.65 | 6738.77 | 6715.04 | 6738.77 |
| **22.5** | 6789.29 | 6823.88 | 6820.15 | 6798.18 | 6769.56 | 6798.18 | 6820.15 | 6823.88 | 6789.29 | 6823.88 |
| **25.0** | 6827.48 | 6875.47 | 6893.78 | 6896.40 | 6865.73 | 6896.40 | 6893.78 | 6875.47 | 6827.48 | 6875.47 |
| **27.5** | 6813.08 | 6882.93 | 6930.13 | 6959.51 | 6930.69 | 6959.51 | 6930.13 | 6882.93 | 6813.08 | 6882.93 |
| **30.0** | 6744.07 | 6831.86 | 6920.32 | 6980.45 | 6960.66 | 6980.45 | 6920.32 | 6831.86 | 6744.07 | 6831.86 |
| **32.5** | 6616.59 | 6729.57 | 6854.79 | 6943.01 | 6942.37 | 6943.01 | 6854.79 | 6729.57 | 6616.59 | 6729.57 |
| **35.0** | 6434.43 | 6568.86 | 6730.01 | 6851.27 | 6873.14 | 6851.27 | 6730.01 | 6568.86 | 6434.43 | 6568.86 |
| **37.5** | 6204.82 | 6355.16 | 6547.47 | 6706.63 | 6731.69 | 6706.63 | 6547.47 | 6355.16 | 6204.82 | 6355.16 |
| **40.0** | 5919.55 | 6088.63 | 6320.52 | 6497.95 | 6516.34 | 6497.95 | 6320.52 | 6088.63 | 5919.55 | 6088.63 |
| **42.5** | 5583.76 | 5782.67 | 6043.37 | 6211.74 | 6224.48 | 6211.74 | 6043.37 | 5782.67 | 5583.76 | 5782.67 |
| **45.0** | 5211.69 | 5429.82 | 5707.66 | 5854.25 | 5858.20 | 5854.25 | 5707.66 | 5429.82 | 5211.69 | 5429.82 |
| **47.5** | 4811.41 | 5034.06 | 5320.08 | 5437.33 | 5438.86 | 5437.33 | 5320.08 | 5034.06 | 4811.41 | 5034.06 |
| **50.0** | 4387.63 | 4613.36 | 4888.15 | 4976.67 | 4970.97 | 4976.67 | 4888.15 | 4613.36 | 4387.63 | 4613.36 |
| **52.5** | 3951.32 | 4183.20 | 4429.82 | 4494.10 | 4494.36 | 4494.10 | 4429.82 | 4183.20 | 3951.32 | 4183.20 |
| **55.0** | 3525.78 | 3748.38 | 3962.19 | 4013.80 | 4033.81 | 4013.80 | 3962.19 | 3748.38 | 3525.78 | 3748.38 |
| **57.5** | 3117.81 | 3322.71 | 3506.39 | 3572.70 | 3615.20 | 3572.70 | 3506.39 | 3322.71 | 3117.81 | 3322.71 |
| **60.0** | 2726.80 | 2915.80 | 3074.76 | 3179.56 | 3242.27 | 3179.56 | 3074.76 | 2915.80 | 2726.80 | 2915.80 |
| **62.5** | 2358.77 | 2531.74 | 2670.20 | 2822.99 | 2887.77 | 2822.99 | 2670.20 | 2531.74 | 2358.77 | 2531.74 |
| **65.0** | 2023.85 | 2175.65 | 2303.16 | 2484.66 | 2531.70 | 2484.66 | 2303.16 | 2175.65 | 2023.85 | 2175.65 |
| **67.5** | 1717.69 | 1850.19 | 1975.52 | 2145.73 | 2172.44 | 2145.73 | 1975.52 | 1850.19 | 1717.69 | 1850.19 |
| **70.0** | 1436.01 | 1555.80 | 1682.00 | 1819.53 | 1833.53 | 1819.53 | 1682.00 | 1555.80 | 1436.01 | 1555.80 |
| **72.5** | 1179.11 | 1291.18 | 1417.78 | 1521.00 | 1529.44 | 1521.00 | 1417.78 | 1291.18 | 1179.11 | 1291.18 |
| **75.0** | 944.94 | 1051.08 | 1175.77 | 1256.82 | 1264.07 | 1256.82 | 1175.77 | 1051.08 | 944.94 | 1051.08 |
| **77.5** | 729.13 | 831.96 | 957.20 | 1026.78 | 1035.16 | 1026.78 | 957.20 | 831.96 | 729.13 | 831.96 |
| **80.0** | 533.04 | 632.70 | 762.54 | 831.10 | 841.43 | 831.10 | 762.54 | 632.70 | 533.04 | 632.70 |
| **82.5** | 361.53 | 459.26 | 595.14 | 665.45 | 681.75 | 665.45 | 595.14 | 459.26 | 361.53 | 459.26 |
| **85.0** | 221.39 | 319.70 | 456.42 | 527.45 | 546.01 | 527.45 | 456.42 | 319.70 | 221.39 | 319.70 |
| **87.5** | 124.08 | 224.42 | 356.87 | 424.98 | 443.38 | 424.98 | 356.87 | 224.42 | 124.08 | 224.42 |
| **90.0** | 85.58 | 162.53 | 279.95 | 342.59 | 361.07 | 342.59 | 279.95 | 162.53 | 85.58 | 162.53 |
| **92.5** | 81.23 | 129.49 | 225.02 | 280.22 | 297.11 | 280.22 | 225.02 | 129.49 | 81.23 | 129.49 |
| **95.0** | 80.46 | 117.37 | 189.00 | 236.17 | 251.09 | 236.17 | 189.00 | 117.37 | 80.46 | 117.37 |
| **97.5** | 80.43 | 111.19 | 168.75 | 207.48 | 220.69 | 207.48 | 168.75 | 111.19 | 80.43 | 111.19 |
| **100.0** | 79.24 | 105.23 | 158.50 | 192.45 | 203.35 | 192.45 | 158.50 | 105.23 | 79.24 | 105.23 |
| **102.5** | 77.52 | 99.94 | 151.25 | 184.76 | 194.31 | 184.76 | 151.25 | 99.94 | 77.52 | 99.94 |
| **105.0** | 74.62 | 94.99 | 146.10 | 180.85 | 190.31 | 180.85 | 146.10 | 94.99 | 74.62 | 94.99 |
| **107.5** | 70.97 | 89.76 | 141.06 | 176.77 | 186.91 | 176.77 | 141.06 | 89.76 | 70.97 | 89.76 |
| **110.0** | 67.10 | 84.38 | 135.67 | 171.92 | 182.54 | 171.92 | 135.67 | 84.38 | 67.10 | 84.38 |
| **112.5** | 61.96 | 78.31 | 129.49 | 165.75 | 177.21 | 165.75 | 129.49 | 78.31 | 61.96 | 78.31 |
| **115.0** | 56.56 | 71.58 | 122.23 | 158.30 | 169.87 | 158.30 | 122.23 | 71.58 | 56.56 | 71.58 |
| **117.5** | 51.67 | 64.54 | 115.14 | 150.08 | 161.42 | 150.08 | 115.14 | 64.54 | 51.67 | 64.54 |
| **120.0** | 46.57 | 56.99 | 107.45 | 141.83 | 153.35 | 141.83 | 107.45 | 56.99 | 46.57 | 56.99 |
| **122.5** | 41.68 | 49.45 | 99.50 | 133.07 | 143.54 | 133.07 | 99.50 | 49.45 | 41.68 | 49.45 |
| **125.0** | 36.49 | 42.03 | 90.85 | 123.53 | 134.20 | 123.53 | 90.85 | 42.03 | 36.49 | 42.03 |
| **127.5** | 31.54 | 34.25 | 81.82 | 115.13 | 125.85 | 115.13 | 81.82 | 34.25 | 31.54 | 34.25 |
| **130.0** | 27.37 | 27.41 | 72.99 | 106.58 | 116.75 | 106.58 | 72.99 | 27.41 | 27.37 | 27.41 |
| **132.5** | 23.61 | 22.05 | 63.67 | 97.26 | 106.75 | 97.26 | 63.67 | 22.05 | 23.61 | 22.05 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **135.0** | 20.17 | 16.79 | 53.75 | 87.18 | 96.80 | 87.18 | 53.75 | 16.79 | 20.17 | 16.79 |
| **137.5** | 17.21 | 13.95 | 44.18 | 77.42 | 86.67 | 77.42 | 44.18 | 13.95 | 17.21 | 13.95 |
| **140.0** | 14.18 | 11.44 | 34.94 | 67.32 | 75.70 | 67.32 | 34.94 | 11.44 | 14.18 | 11.44 |
| **142.5** | 11.25 | 9.19 | 26.03 | 56.46 | 65.36 | 56.46 | 26.03 | 9.19 | 11.25 | 9.19 |
| **145.0** | 8.89 | 7.02 | 18.17 | 46.15 | 54.40 | 46.15 | 18.17 | 7.02 | 8.89 | 7.02 |
| **147.5** | 6.75 | 5.18 | 11.67 | 35.93 | 43.50 | 35.93 | 11.67 | 5.18 | 6.75 | 5.18 |
| **150.0** | 5.32 | 3.98 | 5.91 | 26.29 | 32.96 | 26.29 | 5.91 | 3.98 | 5.32 | 3.98 |
| **152.5** | 3.46 | 3.16 | 3.82 | 17.57 | 23.30 | 17.57 | 3.82 | 3.16 | 3.46 | 3.16 |
| **155.0** | 3.12 | 2.75 | 3.70 | 9.39 | 14.34 | 9.39 | 3.70 | 2.75 | 3.12 | 2.75 |
| **157.5** | 3.05 | 2.71 | 3.16 | 4.98 | 8.18 | 4.98 | 3.16 | 2.71 | 3.05 | 2.71 |
| **160.0** | 2.50 | 2.86 | 2.91 | 3.65 | 4.45 | 3.65 | 2.91 | 2.86 | 2.50 | 2.86 |
| **162.5** | 2.85 | 2.63 | 2.92 | 3.21 | 3.49 | 3.21 | 2.92 | 2.63 | 2.85 | 2.63 |
| **165.0** | 2.79 | 2.56 | 2.68 | 2.87 | 3.05 | 2.87 | 2.68 | 2.56 | 2.79 | 2.56 |
| **167.5** | 2.59 | 2.73 | 2.44 | 2.60 | 2.79 | 2.60 | 2.44 | 2.73 | 2.59 | 2.73 |
| **170.0** | 2.53 | 2.53 | 2.25 | 2.47 | 2.49 | 2.47 | 2.25 | 2.53 | 2.53 | 2.53 |
| **172.5** | 2.72 | 2.58 | 2.55 | 2.45 | 2.31 | 2.45 | 2.55 | 2.58 | 2.72 | 2.58 |
| **175.0** | 2.77 | 2.94 | 2.31 | 2.56 | 2.42 | 2.56 | 2.31 | 2.94 | 2.77 | 2.94 |
| **177.5** | 2.91 | 2.81 | 2.43 | 2.41 | 2.56 | 2.41 | 2.43 | 2.81 | 2.91 | 2.81 |
| **180.0** | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 |

| **Vert. Angles** | **Horizontal Angles** | | | | | | |
|---|---|---|---|---|---|---|---|
| | **225.0** | **247.5** | **270.0** | **292.5** | **315.0** | **337.5** | **360.0** |
| **0.0** | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 | 5989.97 |
| **2.5** | 6007.08 | 6015.83 | 6022.20 | 6015.83 | 6007.08 | 5988.55 | 5979.78 |
| **5.0** | 6055.57 | 6063.82 | 6060.26 | 6063.82 | 6055.57 | 6040.38 | 6036.89 |
| **7.5** | 6128.23 | 6126.85 | 6123.60 | 6126.85 | 6128.23 | 6119.64 | 6121.12 |
| **10.0** | 6222.74 | 6221.30 | 6207.29 | 6221.30 | 6222.74 | 6230.40 | 6230.18 |
| **12.5** | 6341.50 | 6320.11 | 6303.41 | 6320.11 | 6341.50 | 6355.51 | 6353.89 |
| **15.0** | 6469.68 | 6437.26 | 6410.92 | 6437.26 | 6469.68 | 6489.94 | 6483.76 |
| **17.5** | 6596.59 | 6558.42 | 6527.85 | 6558.42 | 6596.59 | 6623.85 | 6608.25 |
| **20.0** | 6718.65 | 6680.44 | 6649.82 | 6680.44 | 6718.65 | 6738.77 | 6715.04 |
| **22.5** | 6820.15 | 6798.18 | 6769.56 | 6798.18 | 6820.15 | 6823.88 | 6789.29 |
| **25.0** | 6893.78 | 6896.40 | 6865.73 | 6896.40 | 6893.78 | 6875.47 | 6827.48 |
| **27.5** | 6930.13 | 6959.51 | 6930.69 | 6959.51 | 6930.13 | 6882.93 | 6813.08 |
| **30.0** | 6920.32 | 6980.45 | 6960.66 | 6980.45 | 6920.32 | 6831.86 | 6744.07 |
| **32.5** | 6854.79 | 6943.01 | 6942.37 | 6943.01 | 6854.79 | 6729.57 | 6616.59 |
| **35.0** | 6730.01 | 6851.27 | 6873.14 | 6851.27 | 6730.01 | 6568.86 | 6434.43 |
| **37.5** | 6547.47 | 6706.63 | 6731.69 | 6706.63 | 6547.47 | 6355.16 | 6204.82 |
| **40.0** | 6320.52 | 6497.95 | 6516.34 | 6497.95 | 6320.52 | 6088.63 | 5919.55 |
| **42.5** | 6043.37 | 6211.74 | 6224.48 | 6211.74 | 6043.37 | 5782.67 | 5583.76 |
| **45.0** | 5707.66 | 5854.25 | 5858.20 | 5854.25 | 5707.66 | 5429.82 | 5211.69 |
| **47.5** | 5320.08 | 5437.33 | 5438.86 | 5437.33 | 5320.08 | 5034.06 | 4811.41 |
| **50.0** | 4888.15 | 4976.67 | 4970.97 | 4976.67 | 4888.15 | 4613.36 | 4387.63 |
| **52.5** | 4429.82 | 4494.10 | 4494.36 | 4494.10 | 4429.82 | 4183.20 | 3951.32 |
| **55.0** | 3962.19 | 4013.80 | 4033.81 | 4013.80 | 3962.19 | 3748.38 | 3525.78 |
| **57.5** | 3506.39 | 3572.70 | 3615.20 | 3572.70 | 3506.39 | 3322.71 | 3117.81 |
| **60.0** | 3074.76 | 3179.56 | 3242.27 | 3179.56 | 3074.76 | 2915.80 | 2726.80 |
| **62.5** | 2670.20 | 2822.99 | 2887.77 | 2822.99 | 2670.20 | 2531.74 | 2358.77 |
| **65.0** | 2303.16 | 2484.66 | 2531.70 | 2484.66 | 2303.16 | 2175.65 | 2023.85 |
| **67.5** | 1975.52 | 2145.73 | 2172.44 | 2145.73 | 1975.52 | 1850.19 | 1717.69 |
| **70.0** | 1682.00 | 1819.53 | 1833.53 | 1819.53 | 1682.00 | 1555.80 | 1436.01 |
| **72.5** | 1417.78 | 1521.00 | 1529.44 | 1521.00 | 1417.78 | 1291.18 | 1179.11 |
| **75.0** | 1175.77 | 1256.82 | 1264.07 | 1256.82 | 1175.77 | 1051.08 | 944.94 |
| **77.5** | 957.20 | 1026.78 | 1035.16 | 1026.78 | 957.20 | 831.96 | 729.13 |
| **80.0** | 762.54 | 831.10 | 841.43 | 831.10 | 762.54 | 632.70 | 533.04 |

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**CANDELA TABULATION - (Cont.)**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **82.5** | 595.14 | 665.45 | 681.75 | 665.45 | 595.14 | 459.26 | 361.53 |
| **85.0** | 456.42 | 527.45 | 546.01 | 527.45 | 456.42 | 319.70 | 221.39 |
| **87.5** | 356.87 | 424.98 | 443.38 | 424.98 | 356.87 | 224.42 | 124.08 |
| **90.0** | 279.95 | 342.59 | 361.07 | 342.59 | 279.95 | 162.53 | 85.58 |
| **92.5** | 225.02 | 280.22 | 297.11 | 280.22 | 225.02 | 129.49 | 81.23 |
| **95.0** | 189.00 | 236.17 | 251.09 | 236.17 | 189.00 | 117.37 | 80.46 |
| **97.5** | 168.75 | 207.48 | 220.69 | 207.48 | 168.75 | 111.19 | 80.43 |
| **100.0** | 158.50 | 192.45 | 203.35 | 192.45 | 158.50 | 105.23 | 79.24 |
| **102.5** | 151.25 | 184.76 | 194.31 | 184.76 | 151.25 | 99.94 | 77.52 |
| **105.0** | 146.10 | 180.85 | 190.31 | 180.85 | 146.10 | 94.99 | 74.62 |
| **107.5** | 141.06 | 176.77 | 186.91 | 176.77 | 141.06 | 89.76 | 70.97 |
| **110.0** | 135.67 | 171.92 | 182.54 | 171.92 | 135.67 | 84.38 | 67.10 |
| **112.5** | 129.49 | 165.75 | 177.21 | 165.75 | 129.49 | 78.31 | 61.96 |
| **115.0** | 122.23 | 158.30 | 169.87 | 158.30 | 122.23 | 71.58 | 56.56 |
| **117.5** | 115.14 | 150.08 | 161.42 | 150.08 | 115.14 | 64.54 | 51.67 |
| **120.0** | 107.45 | 141.83 | 153.35 | 141.83 | 107.45 | 56.99 | 46.57 |
| **122.5** | 99.50 | 133.07 | 143.54 | 133.07 | 99.50 | 49.45 | 41.68 |
| **125.0** | 90.85 | 123.53 | 134.20 | 123.53 | 90.85 | 42.03 | 36.49 |
| **127.5** | 81.82 | 115.13 | 125.85 | 115.13 | 81.82 | 34.25 | 31.54 |
| **130.0** | 72.99 | 106.58 | 116.75 | 106.58 | 72.99 | 27.41 | 27.37 |
| **132.5** | 63.67 | 97.26 | 106.75 | 97.26 | 63.67 | 22.05 | 23.61 |
| **135.0** | 53.75 | 87.18 | 96.80 | 87.18 | 53.75 | 16.79 | 20.17 |
| **137.5** | 44.18 | 77.42 | 86.67 | 77.42 | 44.18 | 13.95 | 17.21 |
| **140.0** | 34.94 | 67.32 | 75.70 | 67.32 | 34.94 | 11.44 | 14.18 |
| **142.5** | 26.03 | 56.46 | 65.36 | 56.46 | 26.03 | 9.19 | 11.25 |
| **145.0** | 18.17 | 46.15 | 54.40 | 46.15 | 18.17 | 7.02 | 8.89 |
| **147.5** | 11.67 | 35.93 | 43.50 | 35.93 | 11.67 | 5.18 | 6.75 |
| **150.0** | 5.91 | 26.29 | 32.96 | 26.29 | 5.91 | 3.98 | 5.32 |
| **152.5** | 3.82 | 17.57 | 23.30 | 17.57 | 3.82 | 3.16 | 3.46 |
| **155.0** | 3.70 | 9.39 | 14.34 | 9.39 | 3.70 | 2.75 | 3.12 |
| **157.5** | 3.16 | 4.98 | 8.18 | 4.98 | 3.16 | 2.71 | 3.05 |
| **160.0** | 2.91 | 3.65 | 4.45 | 3.65 | 2.91 | 2.86 | 2.50 |
| **162.5** | 2.92 | 3.21 | 3.49 | 3.21 | 2.92 | 2.63 | 2.85 |
| **165.0** | 2.68 | 2.87 | 3.05 | 2.87 | 2.68 | 2.56 | 2.79 |
| **167.5** | 2.44 | 2.60 | 2.79 | 2.60 | 2.44 | 2.73 | 2.59 |
| **170.0** | 2.25 | 2.47 | 2.49 | 2.47 | 2.25 | 2.53 | 2.53 |
| **172.5** | 2.55 | 2.45 | 2.31 | 2.45 | 2.55 | 2.58 | 2.72 |
| **175.0** | 2.31 | 2.56 | 2.42 | 2.56 | 2.31 | 2.94 | 2.77 |
| **177.5** | 2.43 | 2.41 | 2.56 | 2.41 | 2.43 | 2.81 | 2.91 |
| **180.0** | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 | 2.69 |

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**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : APX24LL40-UNV-W-LFP.IES**

**ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---|---|---|---|
| 0-20 | 2421.94 | N.A. | 10.90 |
| 0-30 | 5594.72 | N.A. | 25.20 |
| 0-40 | 9770.36 | N.A. | 44.00 |
| 0-60 | 17563.74 | N.A. | 79.10 |
| 0-80 | 21095.77 | N.A. | 95.10 |
| 0-90 | 21584.73 | N.A. | 97.30 |
| 10-90 | 21001.64 | N.A. | 94.60 |
| 20-40 | 7348.42 | N.A. | 33.10 |
| 20-50 | 11665.92 | N.A. | 52.60 |
| 40-70 | 10094.4 | N.A. | 45.50 |
| 60-80 | 3532.03 | N.A. | 15.90 |
| 70-80 | 1231.01 | N.A. | 5.50 |
| 80-90 | 488.96 | N.A. | 2.20 |
| 90-110 | 349.72 | N.A. | 1.60 |
| 90-120 | 465.06 | N.A. | 2.10 |
| 90-130 | 542.09 | N.A. | 2.40 |
| 90-150 | 601.28 | N.A. | 2.70 |
| 90-180 | 605.74 | N.A. | 2.70 |
| 110-180 | 256.02 | N.A. | 1.20 |
| 0-180 | 22190.46 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone | Lumens |
|---|---|
| 0-10 | 583.09 |
| 10-20 | 1838.85 |
| 20-30 | 3172.78 |
| 30-40 | 4175.64 |
| 40-50 | 4317.5 |
| 50-60 | 3475.88 |
| 60-70 | 2301.02 |
| 70-80 | 1231.01 |
| 80-90 | 488.96 |
| 90-100 | 202.86 |
| 100-110 | 146.85 |
| 110-120 | 115.34 |
| 120-130 | 77.03 |
| 130-140 | 42.46 |
| 140-150 | 16.72 |
| 150-160 | 3.42 |
| 160-170 | 0.80 |
| 170-180 | 0.24 |

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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

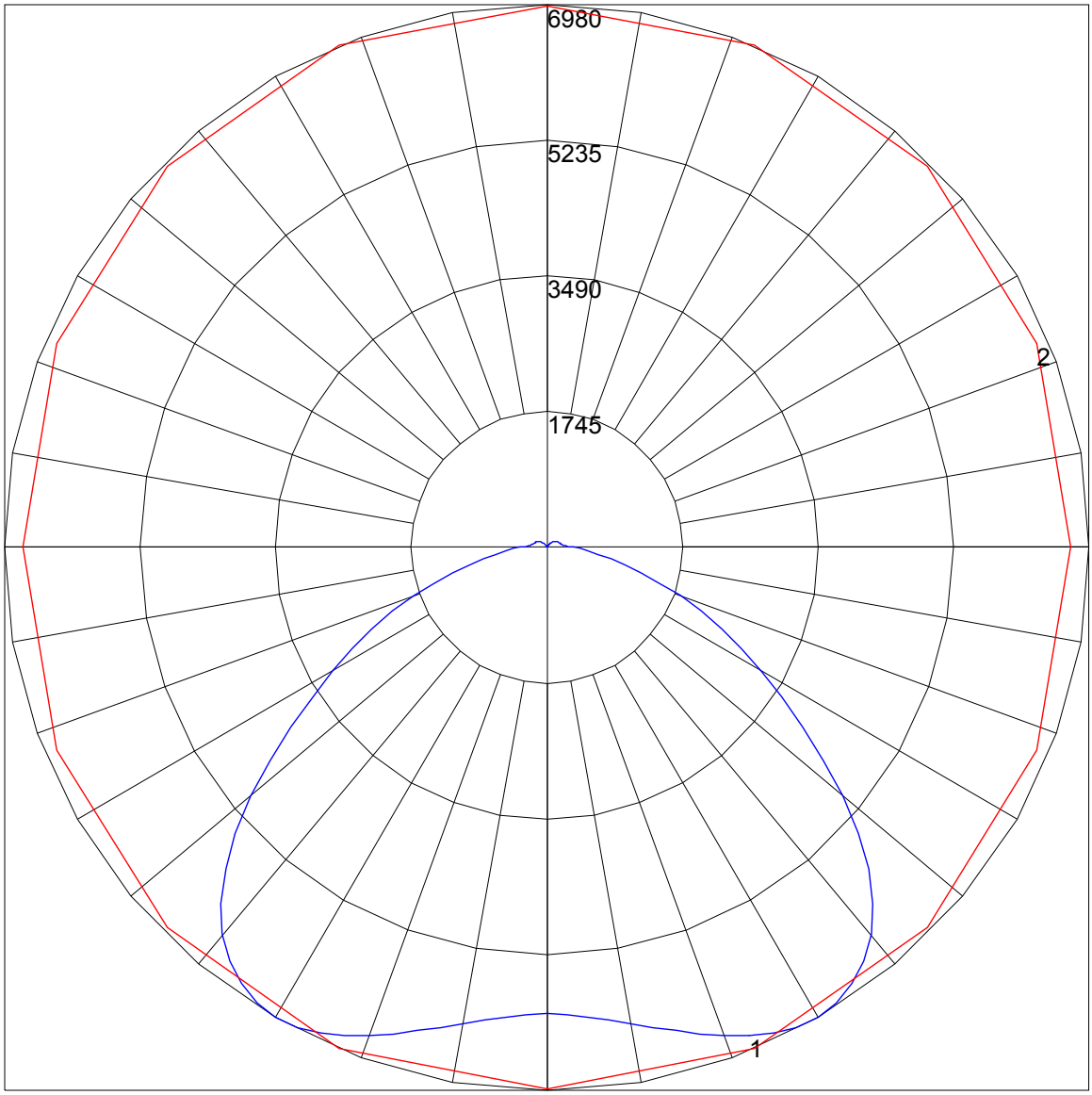
Effective Floor Cavity Reflectance 0.20

| 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 | 110 | 110 | 110 | 104 | 104 | 104 | 100 | 100 | 100 | 97 |
| 1 | 108 | 104 | 99 | 95 | 105 | 101 | 97 | 94 | 96 | 93 | 90 | 92 | 89 | 87 | 88 | 86 | 84 | 82 |
| 2 | 99 | 90 | 84 | 78 | 96 | 88 | 82 | 77 | 84 | 79 | 75 | 81 | 76 | 73 | 77 | 74 | 71 | 68 |
| 3 | 90 | 79 | 71 | 65 | 87 | 78 | 70 | 64 | 74 | 68 | 63 | 71 | 66 | 61 | 68 | 64 | 60 | 58 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 66 | 59 | 53 | 63 | 57 | 52 | 61 | 56 | 51 | 49 |
| 5 | 76 | 63 | 54 | 47 | 73 | 61 | 53 | 47 | 59 | 52 | 46 | 57 | 50 | 45 | 55 | 49 | 45 | 42 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 41 | 53 | 46 | 40 | 51 | 45 | 40 | 49 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | 47 | 40 | 35 | 45 | 39 | 34 | 32 |
| 8 | 60 | 46 | 38 | 32 | 58 | 45 | 37 | 32 | 44 | 37 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 29 |
| 9 | 56 | 42 | 34 | 29 | 54 | 42 | 34 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 26 |
| 10 | 52 | 39 | 31 | 26 | 51 | 38 | 31 | 26 | 37 | 30 | 25 | 36 | 30 | 25 | 35 | 29 | 25 | 23 |

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**POLAR GRAPH**




Maximum Candela = 6980.45  Located At Horizontal Angle = 67.5, Vertical Angle = 30
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
# 2 - Horizontal Cone Through Vertical Angle (30) (Through Max. Cd.)

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