

**PHILIPS****PHILIPS****Day-Brite****CFI****IES INDOOR REPORT****PHOTOMETRIC FILENAME : APX20LL40-UNV-LCP.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33649.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/13/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX20LL40-UNV-LCP

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K BOARDS 2-95W DRIVERS 18K RESISTORS DP LENS

[LAMP] LED. LUMINAIRE OUTPUT = 20334 LMS

[TESTDATE] 10/13/14

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 20344               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 121                 |
| Total Luminaire Watts           | 167.8               |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.30                |
| Spacing Criterion (90-270)      | 1.32                |
| Spacing Criterion (Diagonal)    | 1.44                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 4.29 ft             |
| Luminous Width (90-270)         | 1.17 ft             |
| Luminous Height                 | 0.50 ft             |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 12999            | 10789             | 10394             |
| 55                  | 11788            | 9115              | 6905              |
| 65                  | 9613             | 4797              | 6425              |
| 75                  | 6146             | 5292              | 4612              |
| 85                  | 2400             | 2809              | 2859              |

IES INDOOR REPORT  
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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   | 6849.86    | 6849.86     | 6849.86     | 6849.86     | 6849.86     | 6849.86      | 6849.86      | 6849.86      | 6849.86      | 6849.86      |
| 2.5   | 6818.93    | 6833.51     | 6855.66     | 6860.89     | 6842.74     | 6860.89      | 6855.66      | 6833.51      | 6818.93      | 6833.51      |
| 5.0   | 6803.49    | 6815.51     | 6836.11     | 6851.65     | 6833.57     | 6851.65      | 6836.11      | 6815.51      | 6803.49      | 6815.51      |
| 7.5   | 6776.71    | 6784.76     | 6808.32     | 6830.36     | 6812.68     | 6830.36      | 6808.32      | 6784.76      | 6776.71      | 6784.76      |
| 10.0  | 6737.73    | 6747.07     | 6779.54     | 6805.70     | 6784.72     | 6805.70      | 6779.54      | 6747.07      | 6737.73      | 6747.07      |
| 12.5  | 6685.12    | 6702.49     | 6743.39     | 6753.68     | 6744.16     | 6753.68      | 6743.39      | 6702.49      | 6685.12      | 6702.49      |
| 15.0  | 6619.84    | 6651.06     | 6676.31     | 6683.34     | 6687.91     | 6683.34      | 6676.31      | 6651.06      | 6619.84      | 6651.06      |
| 17.5  | 6542.12    | 6576.14     | 6598.10     | 6606.73     | 6596.97     | 6606.73      | 6598.10      | 6576.14      | 6542.12      | 6576.14      |
| 20.0  | 6450.77    | 6488.63     | 6504.59     | 6507.91     | 6494.50     | 6507.91      | 6504.59      | 6488.63      | 6450.77      | 6488.63      |
| 22.5  | 6347.66    | 6386.61     | 6396.71     | 6405.39     | 6397.30     | 6405.39      | 6396.71      | 6386.61      | 6347.66      | 6386.61      |
| 25.0  | 6241.05    | 6272.89     | 6279.20     | 6287.26     | 6278.61     | 6287.26      | 6279.20      | 6272.89      | 6241.05      | 6272.89      |
| 27.5  | 6118.38    | 6146.16     | 6153.62     | 6156.20     | 6135.33     | 6156.20      | 6153.62      | 6146.16      | 6118.38      | 6146.16      |
| 30.0  | 5982.93    | 6010.93     | 6013.09     | 6011.55     | 5996.18     | 6011.55      | 6013.09      | 6010.93      | 5982.93      | 6010.93      |
| 32.5  | 5826.39    | 5859.29     | 5859.12     | 5855.88     | 5864.99     | 5855.88      | 5859.12      | 5859.29      | 5826.39      | 5859.29      |
| 35.0  | 5647.59    | 5690.12     | 5676.94     | 5707.26     | 5728.14     | 5707.26      | 5676.94      | 5690.12      | 5647.59      | 5690.12      |
| 37.5  | 5444.98    | 5490.95     | 5479.74     | 5550.72     | 5517.21     | 5550.72      | 5479.74      | 5490.95      | 5444.98      | 5490.95      |
| 40.0  | 5254.28    | 5278.97     | 5314.09     | 5362.12     | 5343.57     | 5362.12      | 5314.09      | 5278.97      | 5254.28      | 5278.97      |
| 42.5  | 5023.65    | 5051.16     | 5136.71     | 5179.05     | 5139.29     | 5179.05      | 5136.71      | 5051.16      | 5023.65      | 5051.16      |
| 45.0  | 4790.20    | 4819.05     | 4930.16     | 4906.12     | 4896.20     | 4906.12      | 4930.16      | 4819.05      | 4790.20      | 4819.05      |
| 47.5  | 4525.57    | 4556.84     | 4661.34     | 4648.01     | 4409.98     | 4648.01      | 4661.34      | 4556.84      | 4525.57      | 4556.84      |
| 50.0  | 4256.54    | 4288.80     | 4385.56     | 4130.81     | 3977.58     | 4130.81      | 4385.56      | 4288.80      | 4256.54      | 4288.80      |
| 52.5  | 3970.93    | 4045.34     | 4088.14     | 3666.34     | 3461.07     | 3666.34      | 4088.14      | 4045.34      | 3970.93      | 4045.34      |
| 55.0  | 3681.14    | 3742.95     | 3780.49     | 3122.32     | 2976.87     | 3122.32      | 3780.49      | 3742.95      | 3681.14      | 3742.95      |
| 57.5  | 3359.62    | 3409.13     | 3244.95     | 2643.76     | 2794.24     | 2643.76      | 3244.95      | 3409.13      | 3359.62      | 3409.13      |
| 60.0  | 3041.22    | 3092.52     | 2763.73     | 2424.89     | 2558.59     | 2424.89      | 2763.73      | 3092.52      | 3041.22      | 3092.52      |
| 62.5  | 2708.86    | 2758.38     | 2075.48     | 2270.64     | 2470.15     | 2270.64      | 2075.48      | 2758.38      | 2708.86      | 2758.38      |
| 65.0  | 2370.19    | 2410.32     | 1726.52     | 2382.45     | 2429.00     | 2382.45      | 1726.52      | 2410.32      | 2370.19      | 2410.32      |
| 67.5  | 2040.52    | 2091.76     | 1477.48     | 2337.19     | 2417.62     | 2337.19      | 1477.48      | 2091.76      | 2040.52      | 2091.76      |
| 70.0  | 1700.07    | 1735.27     | 1577.02     | 2189.09     | 2250.51     | 2189.09      | 1577.02      | 1735.27      | 1700.07      | 1735.27      |
| 72.5  | 1374.14    | 1284.39     | 1627.30     | 1887.38     | 1742.52     | 1887.38      | 1627.30      | 1284.39      | 1374.14      | 1284.39      |
| 75.0  | 1065.34    | 805.81      | 1556.92     | 1408.54     | 1445.79     | 1408.54      | 1556.92      | 805.81       | 1065.34      | 805.81       |
| 77.5  | 783.38     | 556.32      | 1195.87     | 1202.02     | 1312.41     | 1202.02      | 1195.87      | 556.32       | 783.38       | 556.32       |
| 80.0  | 544.12     | 433.77      | 967.01      | 971.78      | 1070.25     | 971.78       | 967.01       | 433.77       | 544.12       | 433.77       |
| 82.5  | 357.48     | 407.63      | 698.74      | 821.40      | 842.25      | 821.40       | 698.74       | 407.63       | 357.48       | 407.63       |
| 85.0  | 227.65     | 415.38      | 616.63      | 692.99      | 684.41      | 692.99       | 616.63       | 415.38       | 227.65       | 415.38       |
| 87.5  | 148.65     | 344.48      | 479.96      | 498.86      | 497.41      | 498.86       | 479.96       | 344.48       | 148.65       | 344.48       |
| 90.0  | 95.27      | 236.95      | 321.54      | 304.57      | 327.58      | 304.57       | 321.54       | 236.95       | 95.27        | 236.95       |
| 92.5  | 79.21      | 171.37      | 164.66      | 177.19      | 202.32      | 177.19       | 164.66       | 171.37       | 79.21        | 171.37       |
| 95.0  | 92.27      | 100.24      | 83.41       | 99.02       | 110.61      | 99.02        | 83.41        | 100.24       | 92.27        | 100.24       |
| 97.5  | 112.67     | 62.75       | 69.88       | 90.29       | 91.63       | 90.29        | 69.88        | 62.75        | 112.67       | 62.75        |
| 100.0 | 119.98     | 61.81       | 68.00       | 79.08       | 81.70       | 79.08        | 68.00        | 61.81        | 119.98       | 61.81        |
| 102.5 | 115.99     | 63.38       | 63.87       | 71.44       | 74.09       | 71.44        | 63.87        | 63.38        | 115.99       | 63.38        |
| 105.0 | 107.13     | 64.36       | 54.24       | 57.67       | 61.58       | 57.67        | 54.24        | 64.36        | 107.13       | 64.36        |
| 107.5 | 95.89      | 64.43       | 43.76       | 47.76       | 51.69       | 47.76        | 43.76        | 64.43        | 95.89        | 64.43        |
| 110.0 | 84.10      | 61.30       | 40.60       | 40.75       | 43.49       | 40.75        | 40.60        | 61.30        | 84.10        | 61.30        |
| 112.5 | 73.13      | 56.19       | 37.28       | 37.09       | 39.30       | 37.09        | 37.28        | 56.19        | 73.13        | 56.19        |
| 115.0 | 62.88      | 50.54       | 34.96       | 32.96       | 35.31       | 32.96        | 34.96        | 50.54        | 62.88        | 50.54        |
| 117.5 | 54.17      | 49.32       | 32.89       | 30.07       | 31.77       | 30.07        | 32.89        | 49.32        | 54.17        | 49.32        |
| 120.0 | 46.87      | 52.65       | 31.50       | 27.40       | 29.27       | 27.40        | 31.50        | 52.65        | 46.87        | 52.65        |
| 122.5 | 40.30      | 50.20       | 34.64       | 25.38       | 26.29       | 25.38        | 34.64        | 50.20        | 40.30        | 50.20        |
| 125.0 | 33.64      | 35.18       | 56.19       | 25.13       | 24.50       | 25.13        | 56.19        | 35.18        | 33.64        | 35.18        |
| 127.5 | 28.60      | 25.91       | 82.14       | 37.77       | 27.88       | 37.77        | 82.14        | 25.91        | 28.60        | 25.91        |
| 130.0 | 23.70      | 21.43       | 89.00       | 77.04       | 58.85       | 77.04        | 89.00        | 21.43        | 23.70        | 21.43        |
| 132.5 | 19.87      | 18.02       | 53.58       | 89.15       | 92.68       | 89.15        | 53.58        | 18.02        | 19.87        | 18.02        |

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**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 135.0 | 16.36 | 14.58 | 23.39 | 92.36 | 64.13 | 92.36 | 23.39 | 14.58 | 16.36 | 14.58 |
| 137.5 | 13.29 | 12.29 | 16.76 | 77.08 | 88.57 | 77.08 | 16.76 | 12.29 | 13.29 | 12.29 |
| 140.0 | 11.02 | 9.88  | 12.96 | 30.04 | 70.03 | 30.04 | 12.96 | 9.88  | 11.02 | 9.88  |
| 142.5 | 8.94  | 8.26  | 9.44  | 18.47 | 26.04 | 18.47 | 9.44  | 8.26  | 8.94  | 8.26  |
| 145.0 | 7.68  | 6.69  | 7.33  | 14.88 | 17.77 | 14.88 | 7.33  | 6.69  | 7.68  | 6.69  |
| 147.5 | 6.06  | 5.72  | 5.95  | 11.25 | 13.94 | 11.25 | 5.95  | 5.72  | 6.06  | 5.72  |
| 150.0 | 4.97  | 4.76  | 5.31  | 8.57  | 10.53 | 8.57  | 5.31  | 4.76  | 4.97  | 4.76  |
| 152.5 | 4.91  | 4.64  | 4.90  | 7.00  | 8.10  | 7.00  | 4.90  | 4.64  | 4.91  | 4.64  |
| 155.0 | 4.49  | 4.72  | 5.06  | 5.79  | 6.76  | 5.79  | 5.06  | 4.72  | 4.49  | 4.72  |
| 157.5 | 4.66  | 4.74  | 4.87  | 5.45  | 5.94  | 5.45  | 4.87  | 4.74  | 4.66  | 4.74  |
| 160.0 | 4.39  | 4.72  | 4.85  | 5.08  | 5.44  | 5.08  | 4.85  | 4.72  | 4.39  | 4.72  |
| 162.5 | 4.31  | 4.77  | 4.69  | 5.04  | 5.02  | 5.04  | 4.69  | 4.77  | 4.31  | 4.77  |
| 165.0 | 4.33  | 4.41  | 4.52  | 5.02  | 4.98  | 5.02  | 4.52  | 4.41  | 4.33  | 4.41  |
| 167.5 | 4.15  | 4.09  | 4.59  | 4.55  | 4.69  | 4.55  | 4.59  | 4.09  | 4.15  | 4.09  |
| 170.0 | 4.48  | 4.44  | 4.35  | 4.74  | 4.50  | 4.74  | 4.35  | 4.44  | 4.48  | 4.44  |
| 172.5 | 4.42  | 4.28  | 4.45  | 4.65  | 4.59  | 4.65  | 4.45  | 4.28  | 4.42  | 4.28  |
| 175.0 | 4.68  | 4.73  | 4.44  | 4.76  | 4.56  | 4.76  | 4.44  | 4.73  | 4.68  | 4.73  |
| 177.5 | 4.40  | 4.73  | 4.52  | 4.65  | 4.79  | 4.65  | 4.52  | 4.73  | 4.40  | 4.73  |
| 180.0 | 4.61  | 4.61  | 4.61  | 4.61  | 4.61  | 4.61  | 4.61  | 4.61  | 4.61  | 4.61  |

**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  | 6849.86      | 6849.86      | 6849.86      | 6849.86      | 6849.86      | 6849.86      | 6849.86      |
| 2.5  | 6855.66      | 6860.89      | 6842.74      | 6860.89      | 6855.66      | 6833.51      | 6818.93      |
| 5.0  | 6836.11      | 6851.65      | 6833.57      | 6851.65      | 6836.11      | 6815.51      | 6803.49      |
| 7.5  | 6808.32      | 6830.36      | 6812.68      | 6830.36      | 6808.32      | 6784.76      | 6776.71      |
| 10.0 | 6779.54      | 6805.70      | 6784.72      | 6805.70      | 6779.54      | 6747.07      | 6737.73      |
| 12.5 | 6743.39      | 6753.68      | 6744.16      | 6753.68      | 6743.39      | 6702.49      | 6685.12      |
| 15.0 | 6676.31      | 6683.34      | 6687.91      | 6683.34      | 6676.31      | 6651.06      | 6619.84      |
| 17.5 | 6598.10      | 6606.73      | 6596.97      | 6606.73      | 6598.10      | 6576.14      | 6542.12      |
| 20.0 | 6504.59      | 6507.91      | 6494.50      | 6507.91      | 6504.59      | 6488.63      | 6450.77      |
| 22.5 | 6396.71      | 6405.39      | 6397.30      | 6405.39      | 6396.71      | 6386.61      | 6347.66      |
| 25.0 | 6279.20      | 6287.26      | 6278.61      | 6287.26      | 6279.20      | 6272.89      | 6241.05      |
| 27.5 | 6153.62      | 6156.20      | 6135.33      | 6156.20      | 6153.62      | 6146.16      | 6118.38      |
| 30.0 | 6013.09      | 6011.55      | 5996.18      | 6011.55      | 6013.09      | 6010.93      | 5982.93      |
| 32.5 | 5859.12      | 5855.88      | 5864.99      | 5855.88      | 5859.12      | 5859.29      | 5826.39      |
| 35.0 | 5676.94      | 5707.26      | 5728.14      | 5707.26      | 5676.94      | 5690.12      | 5647.59      |
| 37.5 | 5479.74      | 5550.72      | 5517.21      | 5550.72      | 5479.74      | 5490.95      | 5444.98      |
| 40.0 | 5314.09      | 5362.12      | 5343.57      | 5362.12      | 5314.09      | 5278.97      | 5254.28      |
| 42.5 | 5136.71      | 5179.05      | 5139.29      | 5179.05      | 5136.71      | 5051.16      | 5023.65      |
| 45.0 | 4930.16      | 4906.12      | 4896.20      | 4906.12      | 4930.16      | 4819.05      | 4790.20      |
| 47.5 | 4661.34      | 4648.01      | 4409.98      | 4648.01      | 4661.34      | 4556.84      | 4525.57      |
| 50.0 | 4385.56      | 4130.81      | 3977.58      | 4130.81      | 4385.56      | 4288.80      | 4256.54      |
| 52.5 | 4088.14      | 3666.34      | 3461.07      | 3666.34      | 4088.14      | 4045.34      | 3970.93      |
| 55.0 | 3780.49      | 3122.32      | 2976.87      | 3122.32      | 3780.49      | 3742.95      | 3681.14      |
| 57.5 | 3244.95      | 2643.76      | 2794.24      | 2643.76      | 3244.95      | 3409.13      | 3359.62      |
| 60.0 | 2763.73      | 2424.89      | 2558.59      | 2424.89      | 2763.73      | 3092.52      | 3041.22      |
| 62.5 | 2075.48      | 2270.64      | 2470.15      | 2270.64      | 2075.48      | 2758.38      | 2708.86      |
| 65.0 | 1726.52      | 2382.45      | 2429.00      | 2382.45      | 1726.52      | 2410.32      | 2370.19      |
| 67.5 | 1477.48      | 2337.19      | 2417.62      | 2337.19      | 1477.48      | 2091.76      | 2040.52      |
| 70.0 | 1577.02      | 2189.09      | 2250.51      | 2189.09      | 1577.02      | 1735.27      | 1700.07      |
| 72.5 | 1627.30      | 1887.38      | 1742.52      | 1887.38      | 1627.30      | 1284.39      | 1374.14      |
| 75.0 | 1556.92      | 1408.54      | 1445.79      | 1408.54      | 1556.92      | 805.81       | 1065.34      |
| 77.5 | 1195.87      | 1202.02      | 1312.41      | 1202.02      | 1195.87      | 556.32       | 783.38       |
| 80.0 | 967.01       | 971.78       | 1070.25      | 971.78       | 967.01       | 433.77       | 544.12       |

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**CANDELA TABULATION - (Cont.)**

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 82.5  | 698.74 | 821.40 | 842.25 | 821.40 | 698.74 | 407.63 | 357.48 |
| 85.0  | 616.63 | 692.99 | 684.41 | 692.99 | 616.63 | 415.38 | 227.65 |
| 87.5  | 479.96 | 498.86 | 497.41 | 498.86 | 479.96 | 344.48 | 148.65 |
| 90.0  | 321.54 | 304.57 | 327.58 | 304.57 | 321.54 | 236.95 | 95.27  |
| 92.5  | 164.66 | 177.19 | 202.32 | 177.19 | 164.66 | 171.37 | 79.21  |
| 95.0  | 83.41  | 99.02  | 110.61 | 99.02  | 83.41  | 100.24 | 92.27  |
| 97.5  | 69.88  | 90.29  | 91.63  | 90.29  | 69.88  | 62.75  | 112.67 |
| 100.0 | 68.00  | 79.08  | 81.70  | 79.08  | 68.00  | 61.81  | 119.98 |
| 102.5 | 63.87  | 71.44  | 74.09  | 71.44  | 63.87  | 63.38  | 115.99 |
| 105.0 | 54.24  | 57.67  | 61.58  | 57.67  | 54.24  | 64.36  | 107.13 |
| 107.5 | 43.76  | 47.76  | 51.69  | 47.76  | 43.76  | 64.43  | 95.89  |
| 110.0 | 40.60  | 40.75  | 43.49  | 40.75  | 40.60  | 61.30  | 84.10  |
| 112.5 | 37.28  | 37.09  | 39.30  | 37.09  | 37.28  | 56.19  | 73.13  |
| 115.0 | 34.96  | 32.96  | 35.31  | 32.96  | 34.96  | 50.54  | 62.88  |
| 117.5 | 32.89  | 30.07  | 31.77  | 30.07  | 32.89  | 49.32  | 54.17  |
| 120.0 | 31.50  | 27.40  | 29.27  | 27.40  | 31.50  | 52.65  | 46.87  |
| 122.5 | 34.64  | 25.38  | 26.29  | 25.38  | 34.64  | 50.20  | 40.30  |
| 125.0 | 56.19  | 25.13  | 24.50  | 25.13  | 56.19  | 35.18  | 33.64  |
| 127.5 | 82.14  | 37.77  | 27.88  | 37.77  | 82.14  | 25.91  | 28.60  |
| 130.0 | 89.00  | 77.04  | 58.85  | 77.04  | 89.00  | 21.43  | 23.70  |
| 132.5 | 53.58  | 89.15  | 92.68  | 89.15  | 53.58  | 18.02  | 19.87  |
| 135.0 | 23.39  | 92.36  | 64.13  | 92.36  | 23.39  | 14.58  | 16.36  |
| 137.5 | 16.76  | 77.08  | 88.57  | 77.08  | 16.76  | 12.29  | 13.29  |
| 140.0 | 12.96  | 30.04  | 70.03  | 30.04  | 12.96  | 9.88   | 11.02  |
| 142.5 | 9.44   | 18.47  | 26.04  | 18.47  | 9.44   | 8.26   | 8.94   |
| 145.0 | 7.33   | 14.88  | 17.77  | 14.88  | 7.33   | 6.69   | 7.68   |
| 147.5 | 5.95   | 11.25  | 13.94  | 11.25  | 5.95   | 5.72   | 6.06   |
| 150.0 | 5.31   | 8.57   | 10.53  | 8.57   | 5.31   | 4.76   | 4.97   |
| 152.5 | 4.90   | 7.00   | 8.10   | 7.00   | 4.90   | 4.64   | 4.91   |
| 155.0 | 5.06   | 5.79   | 6.76   | 5.79   | 5.06   | 4.72   | 4.49   |
| 157.5 | 4.87   | 5.45   | 5.94   | 5.45   | 4.87   | 4.74   | 4.66   |
| 160.0 | 4.85   | 5.08   | 5.44   | 5.08   | 4.85   | 4.72   | 4.39   |
| 162.5 | 4.69   | 5.04   | 5.02   | 5.04   | 4.69   | 4.77   | 4.31   |
| 165.0 | 4.52   | 5.02   | 4.98   | 5.02   | 4.52   | 4.41   | 4.33   |
| 167.5 | 4.59   | 4.55   | 4.69   | 4.55   | 4.59   | 4.09   | 4.15   |
| 170.0 | 4.35   | 4.74   | 4.50   | 4.74   | 4.35   | 4.44   | 4.48   |
| 172.5 | 4.45   | 4.65   | 4.59   | 4.65   | 4.45   | 4.28   | 4.42   |
| 175.0 | 4.44   | 4.76   | 4.56   | 4.76   | 4.44   | 4.73   | 4.68   |
| 177.5 | 4.52   | 4.65   | 4.79   | 4.65   | 4.52   | 4.73   | 4.40   |
| 180.0 | 4.61   | 4.61   | 4.61   | 4.61   | 4.61   | 4.61   | 4.61   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APX20LL40-UNV-LCP.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 2532.24  | N.A.  | 12.40  |
| 0-30    | 5425.56  | N.A.  | 26.70  |
| 0-40    | 8982.99  | N.A.  | 44.20  |
| 0-60    | 15836.27 | N.A.  | 77.80  |
| 0-80    | 19431.24 | N.A.  | 95.50  |
| 0-90    | 20009.02 | N.A.  | 98.40  |
| 10-90   | 19358.89 | N.A.  | 95.20  |
| 20-40   | 6450.75  | N.A.  | 31.70  |
| 20-50   | 10184.32 | N.A.  | 50.10  |
| 40-70   | 9082.95  | N.A.  | 44.60  |
| 60-80   | 3594.98  | N.A.  | 17.70  |
| 70-80   | 1365.3   | N.A.  | 6.70   |
| 80-90   | 577.77   | N.A.  | 2.80   |
| 90-110  | 209.39   | N.A.  | 1.00   |
| 90-120  | 252.14   | N.A.  | 1.20   |
| 90-130  | 288.56   | N.A.  | 1.40   |
| 90-150  | 330.62   | N.A.  | 1.60   |
| 90-180  | 334.93   | N.A.  | 1.60   |
| 110-180 | 125.54   | N.A.  | 0.60   |
| 0-180   | 20343.95 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 650.12  |
| 10-20   | 1882.12 |
| 20-30   | 2893.32 |
| 30-40   | 3557.43 |
| 40-50   | 3733.57 |
| 50-60   | 3119.71 |
| 60-70   | 2229.67 |
| 70-80   | 1365.3  |
| 80-90   | 577.77  |
| 90-100  | 140.37  |
| 100-110 | 69.02   |
| 110-120 | 42.75   |
| 120-130 | 36.42   |
| 130-140 | 34.50   |
| 140-150 | 7.56    |
| 150-160 | 2.55    |
| 160-170 | 1.32    |
| 170-180 | 0.43    |

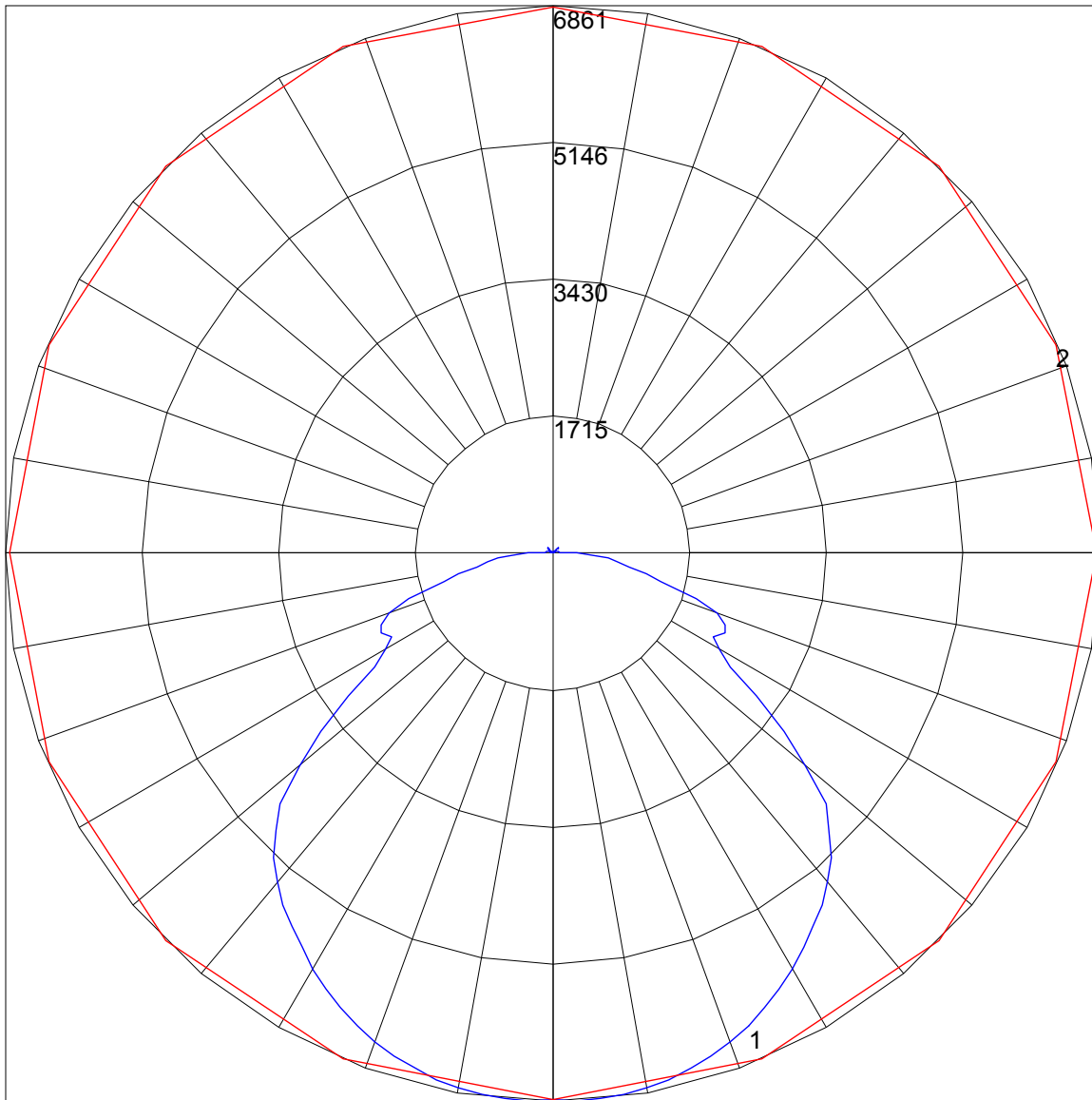
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APX20LL40-UNV-LCP.IES**

**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 | 110 | 110 | 110 | 105 | 105 | 105 | 101 | 101 | 101 | 98 |
| 1  | 108 | 103 | 99  | 95  | 105 | 101 | 97  | 93  | 96  | 93  | 90  | 92  | 89  | 87  | 88  | 86  | 84  | 82 |
| 2  | 98  | 90  | 83  | 77  | 95  | 88  | 82  | 76  | 84  | 79  | 74  | 81  | 76  | 72  | 77  | 74  | 70  | 68 |
| 3  | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 64  | 74  | 68  | 62  | 71  | 66  | 61  | 68  | 64  | 60  | 57 |
| 4  | 82  | 70  | 61  | 55  | 80  | 69  | 60  | 54  | 66  | 59  | 53  | 63  | 57  | 52  | 61  | 56  | 51  | 49 |
| 5  | 75  | 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  | 50  | 44  | 39  | 37 |
| 7  | 65  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 48  | 41  | 36  | 47  | 40  | 35  | 45  | 39  | 35  | 33 |
| 8  | 60  | 47  | 38  | 32  | 58  | 46  | 38  | 32  | 44  | 37  | 32  | 43  | 36  | 31  | 42  | 36  | 31  | 29 |
| 9  | 56  | 43  | 34  | 29  | 55  | 42  | 34  | 29  | 41  | 34  | 29  | 40  | 33  | 28  | 38  | 32  | 28  | 26 |
| 10 | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 26  | 24 |

POLAR GRAPH



Maximum Candela = 6860.89 Located At Horizontal Angle = 67.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)