

**PHILIPS**

**PHILIPS**

**Day-Brite**

**CFI**

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : APX20LL40-UNV-A.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] FO33744.PSO

[TESTLAB] PHILIPS DAY-BRITE PHOTOMETRIC LABORATORY

[ISSUEDATE] 10/29/14

[MANUFAC] PHILIPS DAY-BRITE - PHILIPS CFI

[LUMCAT] APX20LL40-UNV-A

[LUMINAIRE] PHILIPS APX 4-2LP 1.0.1 4000K 2-95W DRIVERS 18K RESISTORS AISLE OPTICS DIRA LENS

[LAMP] LED. LUMINAIRE OUTPUT = 20722 LMS

[TESTDATE] 10/29/14

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 20722               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 123                 |
| Total Luminaire Watts           | 168.5               |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.18                |
| Spacing Criterion (90-270)      | 2.44                |
| Spacing Criterion (Diagonal)    | 2.04                |
| 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                  | 5731             | 14796             | 20802             |
| 55                  | 2450             | 15131             | 14454             |
| 65                  | 2068             | 2992              | 13806             |
| 75                  | 1432             | 1498              | 4566              |
| 85                  | 988              | 1040              | 1834              |

**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   | 4622.55    | 4622.55     | 4622.55     | 4622.55     | 4622.55     | 4622.55      | 4622.55      | 4622.55      | 4622.55      | 4622.55      |
| 2.5   | 4594.64    | 4600.62     | 4633.55     | 4669.58     | 4701.26     | 4669.58      | 4633.55      | 4600.62      | 4594.64      | 4600.62      |
| 5.0   | 4581.25    | 4602.42     | 4678.44     | 4757.31     | 4804.21     | 4757.31      | 4678.44      | 4602.42      | 4581.25      | 4602.42      |
| 7.5   | 4555.60    | 4605.20     | 4749.57     | 4895.98     | 4969.77     | 4895.98      | 4749.57      | 4605.20      | 4555.60      | 4605.20      |
| 10.0  | 4514.43    | 4608.06     | 4848.73     | 5084.63     | 5170.32     | 5084.63      | 4848.73      | 4608.06      | 4514.43      | 4608.06      |
| 12.5  | 4462.80    | 4611.70     | 4972.18     | 5303.27     | 5416.77     | 5303.27      | 4972.18      | 4611.70      | 4462.80      | 4611.70      |
| 15.0  | 4399.67    | 4613.26     | 5107.78     | 5558.65     | 5703.20     | 5558.65      | 5107.78      | 4613.26      | 4399.67      | 4613.26      |
| 17.5  | 4319.65    | 4607.02     | 5261.58     | 5841.42     | 6036.93     | 5841.42      | 5261.58      | 4607.02      | 4319.65      | 4607.02      |
| 20.0  | 4225.99    | 4591.81     | 5429.24     | 6137.35     | 6392.73     | 6137.35      | 5429.24      | 4591.81      | 4225.99      | 4591.81      |
| 22.5  | 4107.61    | 4573.45     | 5596.07     | 6464.10     | 6725.64     | 6464.10      | 5596.07      | 4573.45      | 4107.61      | 4573.45      |
| 25.0  | 3977.79    | 4549.08     | 5770.65     | 6767.96     | 7058.98     | 6767.96      | 5770.65      | 4549.08      | 3977.79      | 4549.08      |
| 27.5  | 3822.57    | 4508.49     | 5947.41     | 7100.08     | 7429.48     | 7100.08      | 5947.41      | 4508.49      | 3822.57      | 4508.49      |
| 30.0  | 3642.86    | 4441.98     | 6106.13     | 7439.46     | 7795.54     | 7439.46      | 6106.13      | 4441.98      | 3642.86      | 4441.98      |
| 32.5  | 3437.97    | 4360.94     | 6280.35     | 7778.76     | 8197.85     | 7778.76      | 6280.35      | 4360.94      | 3437.97      | 4360.94      |
| 35.0  | 3204.70    | 4255.77     | 6433.58     | 8106.64     | 8541.35     | 8106.64      | 6433.58      | 4255.77      | 3204.70      | 4255.77      |
| 37.5  | 2948.67    | 4117.39     | 6566.77     | 8398.12     | 8842.97     | 8398.12      | 6566.77      | 4117.39      | 2948.67      | 4117.39      |
| 40.0  | 2685.18    | 3950.23     | 6674.85     | 8643.89     | 9069.00     | 8643.89      | 6674.85      | 3950.23      | 2685.18      | 3950.23      |
| 42.5  | 2405.98    | 3776.77     | 6745.33     | 8820.26     | 9345.27     | 8820.26      | 6745.33      | 3776.77      | 2405.98      | 3776.77      |
| 45.0  | 2112.07    | 3593.80     | 6761.45     | 9118.49     | 9799.19     | 9118.49      | 6761.45      | 3593.80      | 2112.07      | 3593.80      |
| 47.5  | 1809.99    | 3394.89     | 6706.53     | 9342.03     | 9683.72     | 9342.03      | 6706.53      | 3394.89      | 1809.99      | 3394.89      |
| 50.0  | 1452.06    | 3160.93     | 6604.72     | 9047.74     | 9411.26     | 9047.74      | 6604.72      | 3160.93      | 1452.06      | 3160.93      |
| 52.5  | 1061.26    | 2748.63     | 6576.18     | 8440.83     | 7965.23     | 8440.83      | 6576.18      | 2748.63      | 1061.26      | 2748.63      |
| 55.0  | 764.99     | 2004.77     | 6275.57     | 6315.20     | 6231.10     | 6315.20      | 6275.57      | 2004.77      | 764.99       | 2004.77      |
| 57.5  | 654.99     | 1199.35     | 5603.03     | 5059.67     | 5007.30     | 5059.67      | 5603.03      | 1199.35      | 654.99       | 1199.35      |
| 60.0  | 605.32     | 804.21      | 4364.89     | 3415.27     | 4843.77     | 3415.27      | 4364.89      | 804.21       | 605.32       | 804.21       |
| 62.5  | 558.96     | 666.66      | 2344.36     | 3901.45     | 5956.61     | 3901.45      | 2344.36      | 666.66       | 558.96       | 666.66       |
| 65.0  | 509.88     | 566.36      | 1076.97     | 3864.25     | 5218.96     | 3864.25      | 1076.97      | 566.36       | 509.88       | 566.36       |
| 67.5  | 455.16     | 481.21      | 730.02      | 3553.10     | 4296.40     | 3553.10      | 730.02       | 481.21       | 455.16       | 481.21       |
| 70.0  | 390.93     | 396.41      | 836.88      | 2328.24     | 3214.43     | 2328.24      | 836.88       | 396.41       | 390.93       | 396.41       |
| 72.5  | 316.18     | 321.25      | 566.49      | 1577.55     | 2210.45     | 1577.55      | 566.49       | 321.25       | 316.18       | 321.25       |
| 75.0  | 248.30     | 254.94      | 440.60      | 1056.38     | 1431.27     | 1056.38      | 440.60       | 254.94       | 248.30       | 254.94       |
| 77.5  | 195.74     | 205.14      | 366.21      | 592.51      | 797.50      | 592.51       | 366.21       | 205.14       | 195.74       | 205.14       |
| 80.0  | 157.65     | 178.00      | 263.45      | 439.54      | 561.49      | 439.54       | 263.45       | 178.00       | 157.65       | 178.00       |
| 82.5  | 125.29     | 169.01      | 229.46      | 431.24      | 477.90      | 431.24       | 229.46       | 169.01       | 125.29       | 169.01       |
| 85.0  | 93.78      | 133.54      | 228.25      | 402.87      | 438.93      | 402.87       | 228.25       | 133.54       | 93.78        | 133.54       |
| 87.5  | 64.40      | 116.68      | 240.31      | 349.93      | 369.44      | 349.93       | 240.31       | 116.68       | 64.40        | 116.68       |
| 90.0  | 31.41      | 91.96       | 186.75      | 257.73      | 286.73      | 257.73       | 186.75       | 91.96        | 31.41        | 91.96        |
| 92.5  | 27.50      | 79.55       | 111.86      | 160.87      | 199.70      | 160.87       | 111.86       | 79.55        | 27.50        | 79.55        |
| 95.0  | 37.54      | 52.37       | 63.33       | 143.68      | 182.41      | 143.68       | 63.33        | 52.37        | 37.54        | 52.37        |
| 97.5  | 45.25      | 38.26       | 56.03       | 139.85      | 178.34      | 139.85       | 56.03        | 38.26        | 45.25        | 38.26        |
| 100.0 | 40.56      | 37.10       | 54.45       | 115.49      | 150.21      | 115.49       | 54.45        | 37.10        | 40.56        | 37.10        |
| 102.5 | 35.86      | 36.06       | 52.76       | 85.85       | 105.36      | 85.85        | 52.76        | 36.06        | 35.86        | 36.06        |
| 105.0 | 31.24      | 35.34       | 52.58       | 76.70       | 89.21       | 76.70        | 52.58        | 35.34        | 31.24        | 35.34        |
| 107.5 | 27.61      | 34.10       | 51.65       | 75.28       | 86.10       | 75.28        | 51.65        | 34.10        | 27.61        | 34.10        |
| 110.0 | 24.36      | 31.61       | 49.96       | 73.29       | 83.78       | 73.29        | 49.96        | 31.61        | 24.36        | 31.61        |
| 112.5 | 21.25      | 28.87       | 48.23       | 70.51       | 80.66       | 70.51        | 48.23        | 28.87        | 21.25        | 28.87        |
| 115.0 | 18.30      | 26.51       | 46.12       | 67.10       | 77.25       | 67.10        | 46.12        | 26.51        | 18.30        | 26.51        |
| 117.5 | 16.10      | 25.13       | 43.81       | 62.70       | 73.83       | 62.70        | 43.81        | 25.13        | 16.10        | 25.13        |
| 120.0 | 14.48      | 25.92       | 41.57       | 56.67       | 68.34       | 56.67        | 41.57        | 25.92        | 14.48        | 25.92        |
| 122.5 | 13.20      | 24.94       | 39.81       | 50.06       | 60.33       | 50.06        | 39.81        | 24.94        | 13.20        | 24.94        |
| 125.0 | 12.32      | 20.94       | 38.87       | 45.03       | 53.37       | 45.03        | 38.87        | 20.94        | 12.32        | 20.94        |
| 127.5 | 11.62      | 17.42       | 41.60       | 42.92       | 49.03       | 42.92        | 41.60        | 17.42        | 11.62        | 17.42        |
| 130.0 | 10.79      | 14.53       | 45.81       | 43.23       | 47.17       | 43.23        | 45.81        | 14.53        | 10.79        | 14.53        |
| 132.5 | 9.82       | 12.22       | 38.13       | 49.47       | 49.65       | 49.47        | 38.13        | 12.22        | 9.82         | 12.22        |

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**CANDELA TABULATION - (Cont.)**

|       |      |      |       |       |       |       |       |      |      |      |
|-------|------|------|-------|-------|-------|-------|-------|------|------|------|
| 135.0 | 8.73 | 9.89 | 27.18 | 65.46 | 66.74 | 65.46 | 27.18 | 9.89 | 8.73 | 9.89 |
| 137.5 | 7.62 | 8.28 | 21.15 | 53.51 | 63.34 | 53.51 | 21.15 | 8.28 | 7.62 | 8.28 |
| 140.0 | 6.57 | 6.88 | 16.54 | 34.83 | 57.96 | 34.83 | 16.54 | 6.88 | 6.57 | 6.88 |
| 142.5 | 5.67 | 5.74 | 12.77 | 26.62 | 35.06 | 26.62 | 12.77 | 5.74 | 5.67 | 5.74 |
| 145.0 | 4.88 | 4.76 | 9.66  | 20.97 | 26.20 | 20.97 | 9.66  | 4.76 | 4.88 | 4.76 |
| 147.5 | 4.19 | 3.99 | 7.14  | 17.07 | 20.72 | 17.07 | 7.14  | 3.99 | 4.19 | 3.99 |
| 150.0 | 3.64 | 3.46 | 4.98  | 13.55 | 16.75 | 13.55 | 4.98  | 3.46 | 3.64 | 3.46 |
| 152.5 | 3.22 | 2.99 | 3.75  | 10.17 | 12.95 | 10.17 | 3.75  | 2.99 | 3.22 | 2.99 |
| 155.0 | 2.88 | 2.89 | 3.63  | 7.10  | 9.44  | 7.10  | 3.63  | 2.89 | 2.88 | 2.89 |
| 157.5 | 2.84 | 2.90 | 3.49  | 4.49  | 6.28  | 4.49  | 3.49  | 2.90 | 2.84 | 2.90 |
| 160.0 | 2.91 | 2.93 | 3.33  | 4.09  | 4.46  | 4.09  | 3.33  | 2.93 | 2.91 | 2.93 |
| 162.5 | 3.00 | 2.98 | 3.26  | 3.69  | 3.93  | 3.69  | 3.26  | 2.98 | 3.00 | 2.98 |
| 165.0 | 3.09 | 2.98 | 3.11  | 3.37  | 3.51  | 3.37  | 3.11  | 2.98 | 3.09 | 2.98 |
| 167.5 | 3.03 | 2.91 | 2.96  | 3.14  | 3.19  | 3.14  | 2.96  | 2.91 | 3.03 | 2.91 |
| 170.0 | 3.04 | 2.88 | 2.86  | 3.03  | 2.98  | 3.03  | 2.86  | 2.88 | 3.04 | 2.88 |
| 172.5 | 3.20 | 3.03 | 2.93  | 2.92  | 2.92  | 2.92  | 2.93  | 3.03 | 3.20 | 3.03 |
| 175.0 | 3.31 | 3.15 | 2.98  | 2.92  | 2.89  | 2.92  | 2.98  | 3.15 | 3.31 | 3.15 |
| 177.5 | 3.43 | 3.24 | 2.96  | 2.91  | 2.91  | 2.91  | 2.96  | 3.24 | 3.43 | 3.24 |
| 180.0 | 3.06 | 3.06 | 3.06  | 3.06  | 3.06  | 3.06  | 3.06  | 3.06 | 3.06 | 3.06 |

**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  | 4622.55      | 4622.55      | 4622.55      | 4622.55      | 4622.55      | 4622.55      | 4622.55      |
| 2.5  | 4633.55      | 4669.58      | 4701.26      | 4669.58      | 4633.55      | 4600.62      | 4594.64      |
| 5.0  | 4678.44      | 4757.31      | 4804.21      | 4757.31      | 4678.44      | 4602.42      | 4581.25      |
| 7.5  | 4749.57      | 4895.98      | 4969.77      | 4895.98      | 4749.57      | 4605.20      | 4555.60      |
| 10.0 | 4848.73      | 5084.63      | 5170.32      | 5084.63      | 4848.73      | 4608.06      | 4514.43      |
| 12.5 | 4972.18      | 5303.27      | 5416.77      | 5303.27      | 4972.18      | 4611.70      | 4462.80      |
| 15.0 | 5107.78      | 5558.65      | 5703.20      | 5558.65      | 5107.78      | 4613.26      | 4399.67      |
| 17.5 | 5261.58      | 5841.42      | 6036.93      | 5841.42      | 5261.58      | 4607.02      | 4319.65      |
| 20.0 | 5429.24      | 6137.35      | 6392.73      | 6137.35      | 5429.24      | 4591.81      | 4225.99      |
| 22.5 | 5596.07      | 6464.10      | 6725.64      | 6464.10      | 5596.07      | 4573.45      | 4107.61      |
| 25.0 | 5770.65      | 6767.96      | 7058.98      | 6767.96      | 5770.65      | 4549.08      | 3977.79      |
| 27.5 | 5947.41      | 7100.08      | 7429.48      | 7100.08      | 5947.41      | 4508.49      | 3822.57      |
| 30.0 | 6106.13      | 7439.46      | 7795.54      | 7439.46      | 6106.13      | 4441.98      | 3642.86      |
| 32.5 | 6280.35      | 7778.76      | 8197.85      | 7778.76      | 6280.35      | 4360.94      | 3437.97      |
| 35.0 | 6433.58      | 8106.64      | 8541.35      | 8106.64      | 6433.58      | 4255.77      | 3204.70      |
| 37.5 | 6566.77      | 8398.12      | 8842.97      | 8398.12      | 6566.77      | 4117.39      | 2948.67      |
| 40.0 | 6674.85      | 8643.89      | 9069.00      | 8643.89      | 6674.85      | 3950.23      | 2685.18      |
| 42.5 | 6745.33      | 8820.26      | 9345.27      | 8820.26      | 6745.33      | 3776.77      | 2405.98      |
| 45.0 | 6761.45      | 9118.49      | 9799.19      | 9118.49      | 6761.45      | 3593.80      | 2112.07      |
| 47.5 | 6706.53      | 9342.03      | 9683.72      | 9342.03      | 6706.53      | 3394.89      | 1809.99      |
| 50.0 | 6604.72      | 9047.74      | 9411.26      | 9047.74      | 6604.72      | 3160.93      | 1452.06      |
| 52.5 | 6576.18      | 8440.83      | 7965.23      | 8440.83      | 6576.18      | 2748.63      | 1061.26      |
| 55.0 | 6275.57      | 6315.20      | 6231.10      | 6315.20      | 6275.57      | 2004.77      | 764.99       |
| 57.5 | 5603.03      | 5059.67      | 5007.30      | 5059.67      | 5603.03      | 1199.35      | 654.99       |
| 60.0 | 4364.89      | 3415.27      | 4843.77      | 3415.27      | 4364.89      | 804.21       | 605.32       |
| 62.5 | 2344.36      | 3901.45      | 5956.61      | 3901.45      | 2344.36      | 666.66       | 558.96       |
| 65.0 | 1076.97      | 3864.25      | 5218.96      | 3864.25      | 1076.97      | 566.36       | 509.88       |
| 67.5 | 730.02       | 3553.10      | 4296.40      | 3553.10      | 730.02       | 481.21       | 455.16       |
| 70.0 | 836.88       | 2328.24      | 3214.43      | 2328.24      | 836.88       | 396.41       | 390.93       |
| 72.5 | 566.49       | 1577.55      | 2210.45      | 1577.55      | 566.49       | 321.25       | 316.18       |
| 75.0 | 440.60       | 1056.38      | 1431.27      | 1056.38      | 440.60       | 254.94       | 248.30       |
| 77.5 | 366.21       | 592.51       | 797.50       | 592.51       | 366.21       | 205.14       | 195.74       |
| 80.0 | 263.45       | 439.54       | 561.49       | 439.54       | 263.45       | 178.00       | 157.65       |

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**CANDELA TABULATION - (Cont.)**

|       |        |        |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|--------|--------|
| 82.5  | 229.46 | 431.24 | 477.90 | 431.24 | 229.46 | 169.01 | 125.29 |
| 85.0  | 228.25 | 402.87 | 438.93 | 402.87 | 228.25 | 133.54 | 93.78  |
| 87.5  | 240.31 | 349.93 | 369.44 | 349.93 | 240.31 | 116.68 | 64.40  |
| 90.0  | 186.75 | 257.73 | 286.73 | 257.73 | 186.75 | 91.96  | 31.41  |
| 92.5  | 111.86 | 160.87 | 199.70 | 160.87 | 111.86 | 79.55  | 27.50  |
| 95.0  | 63.33  | 143.68 | 182.41 | 143.68 | 63.33  | 52.37  | 37.54  |
| 97.5  | 56.03  | 139.85 | 178.34 | 139.85 | 56.03  | 38.26  | 45.25  |
| 100.0 | 54.45  | 115.49 | 150.21 | 115.49 | 54.45  | 37.10  | 40.56  |
| 102.5 | 52.76  | 85.85  | 105.36 | 85.85  | 52.76  | 36.06  | 35.86  |
| 105.0 | 52.58  | 76.70  | 89.21  | 76.70  | 52.58  | 35.34  | 31.24  |
| 107.5 | 51.65  | 75.28  | 86.10  | 75.28  | 51.65  | 34.10  | 27.61  |
| 110.0 | 49.96  | 73.29  | 83.78  | 73.29  | 49.96  | 31.61  | 24.36  |
| 112.5 | 48.23  | 70.51  | 80.66  | 70.51  | 48.23  | 28.87  | 21.25  |
| 115.0 | 46.12  | 67.10  | 77.25  | 67.10  | 46.12  | 26.51  | 18.30  |
| 117.5 | 43.81  | 62.70  | 73.83  | 62.70  | 43.81  | 25.13  | 16.10  |
| 120.0 | 41.57  | 56.67  | 68.34  | 56.67  | 41.57  | 25.92  | 14.48  |
| 122.5 | 39.81  | 50.06  | 60.33  | 50.06  | 39.81  | 24.94  | 13.20  |
| 125.0 | 38.87  | 45.03  | 53.37  | 45.03  | 38.87  | 20.94  | 12.32  |
| 127.5 | 41.60  | 42.92  | 49.03  | 42.92  | 41.60  | 17.42  | 11.62  |
| 130.0 | 45.81  | 43.23  | 47.17  | 43.23  | 45.81  | 14.53  | 10.79  |
| 132.5 | 38.13  | 49.47  | 49.65  | 49.47  | 38.13  | 12.22  | 9.82   |
| 135.0 | 27.18  | 65.46  | 66.74  | 65.46  | 27.18  | 9.89   | 8.73   |
| 137.5 | 21.15  | 53.51  | 63.34  | 53.51  | 21.15  | 8.28   | 7.62   |
| 140.0 | 16.54  | 34.83  | 57.96  | 34.83  | 16.54  | 6.88   | 6.57   |
| 142.5 | 12.77  | 26.62  | 35.06  | 26.62  | 12.77  | 5.74   | 5.67   |
| 145.0 | 9.66   | 20.97  | 26.20  | 20.97  | 9.66   | 4.76   | 4.88   |
| 147.5 | 7.14   | 17.07  | 20.72  | 17.07  | 7.14   | 3.99   | 4.19   |
| 150.0 | 4.98   | 13.55  | 16.75  | 13.55  | 4.98   | 3.46   | 3.64   |
| 152.5 | 3.75   | 10.17  | 12.95  | 10.17  | 3.75   | 2.99   | 3.22   |
| 155.0 | 3.63   | 7.10   | 9.44   | 7.10   | 3.63   | 2.89   | 2.88   |
| 157.5 | 3.49   | 4.49   | 6.28   | 4.49   | 3.49   | 2.90   | 2.84   |
| 160.0 | 3.33   | 4.09   | 4.46   | 4.09   | 3.33   | 2.93   | 2.91   |
| 162.5 | 3.26   | 3.69   | 3.93   | 3.69   | 3.26   | 2.98   | 3.00   |
| 165.0 | 3.11   | 3.37   | 3.51   | 3.37   | 3.11   | 2.98   | 3.09   |
| 167.5 | 2.96   | 3.14   | 3.19   | 3.14   | 2.96   | 2.91   | 3.03   |
| 170.0 | 2.86   | 3.03   | 2.98   | 3.03   | 2.86   | 2.88   | 3.04   |
| 172.5 | 2.93   | 2.92   | 2.92   | 2.92   | 2.93   | 3.03   | 3.20   |
| 175.0 | 2.98   | 2.92   | 2.89   | 2.92   | 2.98   | 3.15   | 3.31   |
| 177.5 | 2.96   | 2.91   | 2.91   | 2.91   | 2.96   | 3.24   | 3.43   |
| 180.0 | 3.06   | 3.06   | 3.06   | 3.06   | 3.06   | 3.06   | 3.06   |

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

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 1903.2   | N.A.  | 9.20   |
| 0-30    | 4526.74  | N.A.  | 21.80  |
| 0-40    | 8391.15  | N.A.  | 40.50  |
| 0-60    | 17310.65 | N.A.  | 83.50  |
| 0-80    | 20153.69 | N.A.  | 97.30  |
| 0-90    | 20429.98 | N.A.  | 98.60  |
| 10-90   | 19977.78 | N.A.  | 96.40  |
| 20-40   | 6487.95  | N.A.  | 31.30  |
| 20-50   | 11352.59 | N.A.  | 54.80  |
| 40-70   | 11020.53 | N.A.  | 53.20  |
| 60-80   | 2843.03  | N.A.  | 13.70  |
| 70-80   | 742.00   | N.A.  | 3.60   |
| 80-90   | 276.31   | N.A.  | 1.30   |
| 90-110  | 177.14   | N.A.  | 0.90   |
| 90-120  | 223.73   | N.A.  | 1.10   |
| 90-130  | 255.80   | N.A.  | 1.20   |
| 90-150  | 288.83   | N.A.  | 1.40   |
| 90-180  | 292.50   | N.A.  | 1.40   |
| 110-180 | 115.36   | N.A.  | 0.60   |
| 0-180   | 20722.49 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 452.21  |
| 10-20   | 1450.99 |
| 20-30   | 2623.54 |
| 30-40   | 3864.41 |
| 40-50   | 4864.64 |
| 50-60   | 4054.86 |
| 60-70   | 2101.03 |
| 70-80   | 742.00  |
| 80-90   | 276.31  |
| 90-100  | 114.67  |
| 100-110 | 62.47   |
| 110-120 | 46.59   |
| 120-130 | 32.07   |
| 130-140 | 24.28   |
| 140-150 | 8.74    |
| 150-160 | 2.47    |
| 160-170 | 0.92    |
| 170-180 | 0.29    |

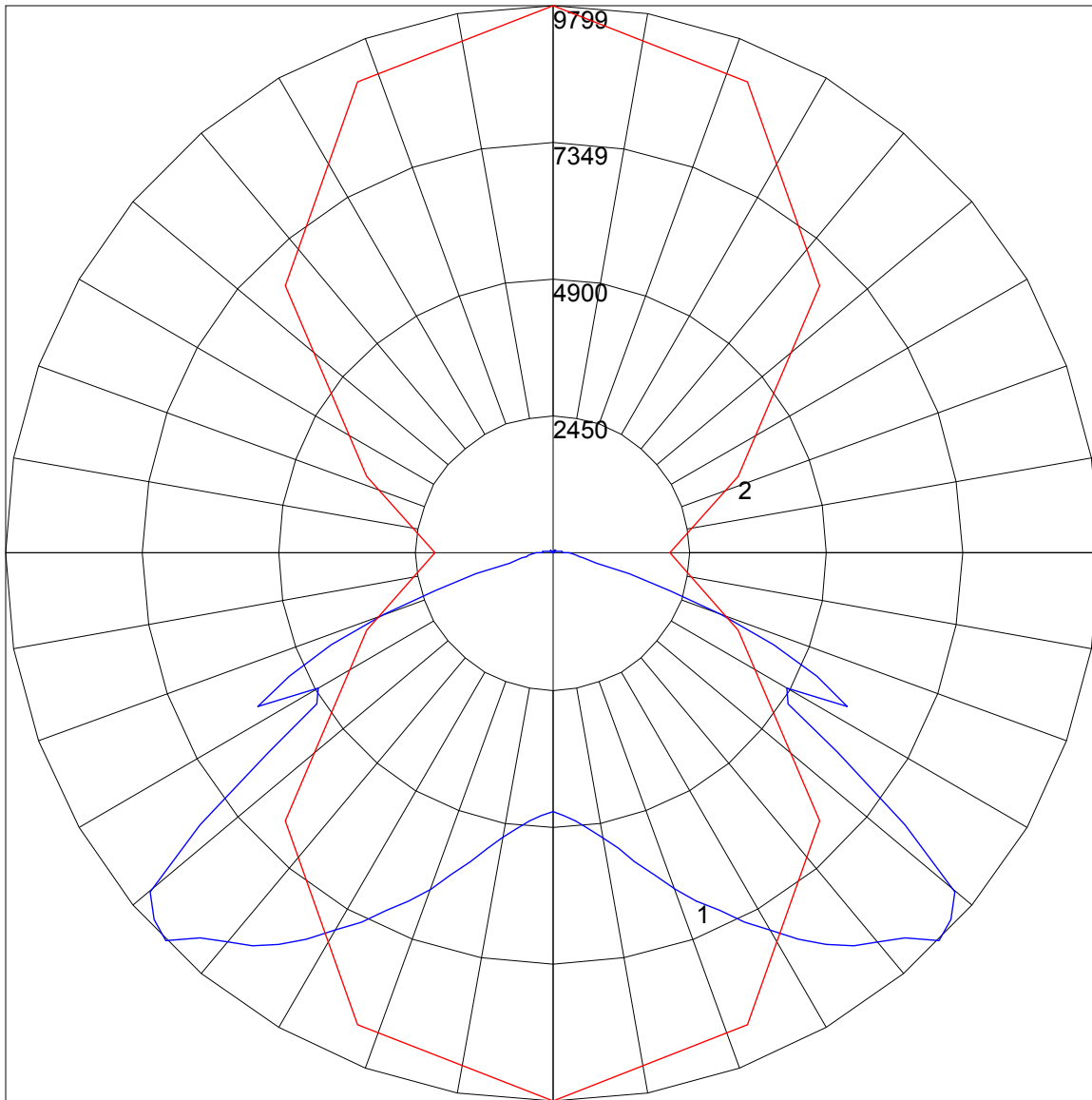
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APX20LL40-UNV-A.IES**

**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 | 99 |
| 1  | 109 | 104 | 100 | 97  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 93  | 91  | 89  | 90  | 88  | 86  | 84 |
| 2  | 99  | 91  | 85  | 79  | 97  | 89  | 83  | 78  | 85  | 80  | 76  | 82  | 78  | 74  | 79  | 75  | 72  | 70 |
| 3  | 90  | 80  | 72  | 65  | 88  | 78  | 71  | 65  | 75  | 69  | 63  | 72  | 67  | 62  | 69  | 65  | 61  | 59 |
| 4  | 82  | 70  | 62  | 55  | 80  | 69  | 61  | 54  | 66  | 59  | 54  | 64  | 58  | 53  | 61  | 56  | 52  | 50 |
| 5  | 75  | 62  | 53  | 47  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 44  | 42 |
| 6  | 69  | 56  | 47  | 40  | 67  | 55  | 46  | 40  | 53  | 45  | 39  | 51  | 44  | 39  | 49  | 43  | 38  | 36 |
| 7  | 64  | 50  | 41  | 35  | 62  | 49  | 41  | 35  | 47  | 40  | 34  | 46  | 39  | 34  | 44  | 38  | 34  | 32 |
| 8  | 59  | 45  | 37  | 31  | 57  | 44  | 36  | 30  | 43  | 35  | 30  | 42  | 35  | 30  | 40  | 34  | 30  | 28 |
| 9  | 55  | 41  | 33  | 27  | 53  | 40  | 32  | 27  | 39  | 32  | 27  | 38  | 31  | 26  | 37  | 31  | 26  | 24 |
| 10 | 51  | 38  | 30  | 24  | 50  | 37  | 29  | 24  | 36  | 29  | 24  | 35  | 28  | 24  | 34  | 28  | 23  | 22 |

POLAR GRAPH



Maximum Candela = 9799.19 Located At Horizontal Angle = 90, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)