



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : QUAD-40-LED35-SO-D1.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] Quad-40-LED35-SO-D1  
 [TESTLAB] Intertek  
 [ISSUE DATE] March 14, 2017  
 [MANUFAC] Prudential Lighting

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 21763           |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 91              |
| Total Luminaire Watts           | 240             |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.26            |
| Spacing Criterion (90-270)      | 1.26            |
| Spacing Criterion (Diagonal)    | 1.38            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 3.90 ft         |
| Luminous Width (90-270)         | 3.90 ft         |
| Luminous Height                 | 0.00 ft         |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 4991             | 5021              | 5048              |
| 55                  | 4826             | 4849              | 4879              |
| 65                  | 4561             | 4594              | 4637              |
| 75                  | 4182             | 4212              | 4289              |
| 85                  | 3534             | 3601              | 3742              |

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**CANDELA TABULATION**

|              | <b>0.0</b> | <b>22.5</b> | <b>45.0</b> | <b>67.5</b> | <b>90.0</b> | <b>112.5</b> | <b>135.0</b> | <b>157.5</b> | <b>180.0</b> | <b>202.5</b> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| <b>0.0</b>   | 7509.016   | 7509.016    | 7509.016    | 7509.016    | 7509.016    | 7509.016     | 7509.016     | 7509.016     | 7509.016     | 7509.016     |
| <b>2.5</b>   | 7497.272   | 7497.877    | 7496.143    | 7495.837    | 7508.220    | 7495.837     | 7496.143     | 7497.877     | 7497.272     | 7497.877     |
| <b>5.0</b>   | 7495.157   | 7471.330    | 7473.254    | 7476.974    | 7485.005    | 7476.974     | 7473.254     | 7471.330     | 7495.157     | 7471.330     |
| <b>7.5</b>   | 7435.732   | 7435.637    | 7422.764    | 7423.540    | 7431.346    | 7423.540     | 7422.764     | 7435.637     | 7435.732     | 7435.637     |
| <b>10.0</b>  | 7374.301   | 7369.956    | 7377.028    | 7366.773    | 7380.754    | 7366.773     | 7377.028     | 7369.956     | 7374.301     | 7369.956     |
| <b>12.5</b>  | 7295.054   | 7295.904    | 7296.121    | 7298.719    | 7298.467    | 7298.719     | 7296.121     | 7295.904     | 7295.054     | 7295.904     |
| <b>15.0</b>  | 7209.652   | 7208.170    | 7205.124    | 7210.754    | 7220.077    | 7210.754     | 7205.124     | 7208.170     | 7209.652     | 7208.170     |
| <b>17.5</b>  | 7099.098   | 7095.678    | 7106.823    | 7104.565    | 7116.873    | 7104.565     | 7106.823     | 7095.678     | 7099.098     | 7095.678     |
| <b>20.0</b>  | 6975.494   | 6977.596    | 6969.408    | 6983.199    | 6991.740    | 6983.199     | 6969.408     | 6977.596     | 6975.494     | 6977.596     |
| <b>22.5</b>  | 6842.146   | 6834.639    | 6838.318    | 6841.514    | 6845.356    | 6841.514     | 6838.318     | 6834.639     | 6842.146     | 6834.639     |
| <b>25.0</b>  | 6683.740   | 6682.918    | 6686.828    | 6695.266    | 6706.044    | 6695.266     | 6686.828     | 6682.918     | 6683.740     | 6682.918     |
| <b>27.5</b>  | 6522.478   | 6518.269    | 6516.127    | 6533.909    | 6531.067    | 6533.909     | 6516.127     | 6518.269     | 6522.478     | 6518.269     |
| <b>30.0</b>  | 6328.930   | 6332.684    | 6343.774    | 6350.228    | 6360.870    | 6350.228     | 6343.774     | 6332.684     | 6328.930     | 6332.684     |
| <b>32.5</b>  | 6126.521   | 6139.550    | 6141.060    | 6150.892    | 6176.800    | 6150.892     | 6141.060     | 6139.550     | 6126.521     | 6139.550     |
| <b>35.0</b>  | 5925.296   | 5928.906    | 5938.270    | 5954.638    | 5963.022    | 5954.638     | 5938.270     | 5928.906     | 5925.296     | 5928.906     |
| <b>37.5</b>  | 5717.957   | 5712.966    | 5722.975    | 5742.253    | 5751.488    | 5742.253     | 5722.975     | 5712.966     | 5717.957     | 5712.966     |
| <b>40.0</b>  | 5472.701   | 5487.607    | 5500.268    | 5513.426    | 5515.113    | 5513.426     | 5500.268     | 5487.607     | 5472.701     | 5487.607     |
| <b>42.5</b>  | 5231.233   | 5247.614    | 5255.319    | 5270.700    | 5293.616    | 5270.700     | 5255.319     | 5247.614     | 5231.233     | 5247.614     |
| <b>45.0</b>  | 4981.367   | 4994.158    | 5010.696    | 5024.459    | 5037.957    | 5024.459     | 5010.696     | 4994.158     | 4981.367     | 4994.158     |
| <b>47.5</b>  | 4735.588   | 4740.613    | 4750.752    | 4765.120    | 4767.630    | 4765.120     | 4750.752     | 4740.613     | 4735.588     | 4740.613     |
| <b>50.0</b>  | 4457.373   | 4468.491    | 4486.137    | 4500.308    | 4501.654    | 4500.308     | 4486.137     | 4468.491     | 4457.373     | 4468.491     |
| <b>52.5</b>  | 4182.469   | 4185.441    | 4207.650    | 4219.638    | 4235.142    | 4219.638     | 4207.650     | 4185.441     | 4182.469     | 4185.441     |
| <b>55.0</b>  | 3906.389   | 3905.396    | 3925.082    | 3938.492    | 3949.950    | 3938.492     | 3925.082     | 3905.396     | 3906.389     | 3905.396     |
| <b>57.5</b>  | 3610.161   | 3619.558    | 3635.586    | 3644.045    | 3660.372    | 3644.045     | 3635.586     | 3619.558     | 3610.161     | 3619.558     |
| <b>60.0</b>  | 3313.014   | 3318.849    | 3339.290    | 3353.903    | 3365.157    | 3353.903     | 3339.290     | 3318.849     | 3313.014     | 3318.849     |
| <b>62.5</b>  | 3013.189   | 3025.198    | 3046.509    | 3059.538    | 3065.426    | 3059.538     | 3046.509     | 3025.198     | 3013.189     | 3025.198     |
| <b>65.0</b>  | 2720.728   | 2717.566    | 2740.121    | 2760.229    | 2766.077    | 2760.229     | 2740.121     | 2717.566     | 2720.728     | 2717.566     |
| <b>67.5</b>  | 2418.991   | 2420.365    | 2432.360    | 2455.072    | 2459.322    | 2455.072     | 2432.360     | 2420.365     | 2418.991     | 2420.365     |
| <b>70.0</b>  | 2113.168   | 2116.514    | 2132.358    | 2149.636    | 2169.472    | 2149.636     | 2132.358     | 2116.514     | 2113.168     | 2116.514     |
| <b>72.5</b>  | 1815.899   | 1822.706    | 1838.720    | 1848.566    | 1862.330    | 1848.566     | 1838.720     | 1822.706     | 1815.899     | 1822.706     |
| <b>75.0</b>  | 1527.511   | 1531.442    | 1538.520    | 1555.010    | 1566.618    | 1555.010     | 1538.520     | 1531.442     | 1527.511     | 1531.442     |
| <b>77.5</b>  | 1243.020   | 1243.686    | 1247.922    | 1268.248    | 1276.047    | 1268.248     | 1247.922     | 1243.686     | 1243.020     | 1243.686     |
| <b>80.0</b>  | 969.918    | 970.652     | 973.801     | 985.170     | 999.117     | 985.170      | 973.801      | 970.652      | 969.918      | 970.652      |
| <b>82.5</b>  | 697.272    | 700.359     | 706.126     | 712.511     | 720.868     | 712.511      | 706.126      | 700.359      | 697.272      | 700.359      |
| <b>85.0</b>  | 434.724    | 444.196     | 442.952     | 455.328     | 460.278     | 455.328      | 442.952      | 444.196      | 434.724      | 444.196      |
| <b>87.5</b>  | 206.924    | 211.732     | 209.569     | 214.676     | 216.920     | 214.676      | 209.569      | 211.732      | 206.924      | 211.732      |
| <b>90.0</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>92.5</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>95.0</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>97.5</b>  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>100.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>102.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>105.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>107.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>110.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>112.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>115.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>117.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>120.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>122.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>125.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>127.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>130.0</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |
| <b>132.5</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       | 0.000        | 0.000        | 0.000        | 0.000        | 0.000        |

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**CANDELA TABULATION - (Cont.)**

|       |       |       |       |       |       |       |       |       |       |       |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 135.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 137.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 140.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 142.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 145.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 147.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 150.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 152.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 155.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 157.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 160.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 162.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 165.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 167.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 170.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 172.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 175.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 177.5 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| 180.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

**Vert. Horizontal Angles**

|      | <b>225.0</b> | <b>247.5</b> | <b>270.0</b> | <b>292.5</b> | <b>315.0</b> | <b>337.5</b> | <b>360.0</b> |
|------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| 0.0  | 7509.016     | 7509.016     | 7509.016     | 7509.016     | 7509.016     | 7509.016     | 7509.016     |
| 2.5  | 7496.143     | 7495.837     | 7508.220     | 7495.837     | 7496.143     | 7497.877     | 7497.272     |
| 5.0  | 7473.254     | 7476.974     | 7485.005     | 7476.974     | 7473.254     | 7471.330     | 7495.157     |
| 7.5  | 7422.764     | 7423.540     | 7431.346     | 7423.540     | 7422.764     | 7435.637     | 7435.732     |
| 10.0 | 7377.028     | 7366.773     | 7380.754     | 7366.773     | 7377.028     | 7369.956     | 7374.301     |
| 12.5 | 7296.121     | 7298.719     | 7298.467     | 7298.719     | 7296.121     | 7295.904     | 7295.054     |
| 15.0 | 7205.124     | 7210.754     | 7220.077     | 7210.754     | 7205.124     | 7208.170     | 7209.652     |
| 17.5 | 7106.823     | 7104.565     | 7116.873     | 7104.565     | 7106.823     | 7095.678     | 7099.098     |
| 20.0 | 6969.408     | 6983.199     | 6991.740     | 6983.199     | 6969.408     | 6977.596     | 6975.494     |
| 22.5 | 6838.318     | 6841.514     | 6845.356     | 6841.514     | 6838.318     | 6834.639     | 6842.146     |
| 25.0 | 6686.828     | 6695.266     | 6706.044     | 6695.266     | 6686.828     | 6682.918     | 6683.740     |
| 27.5 | 6516.127     | 6533.909     | 6531.067     | 6533.909     | 6516.127     | 6518.269     | 6522.478     |
| 30.0 | 6343.774     | 6350.228     | 6360.870     | 6350.228     | 6343.774     | 6332.684     | 6328.930     |
| 32.5 | 6141.060     | 6150.892     | 6176.800     | 6150.892     | 6141.060     | 6139.550     | 6126.521     |
| 35.0 | 5938.270     | 5954.638     | 5963.022     | 5954.638     | 5938.270     | 5928.906     | 5925.296     |
| 37.5 | 5722.975     | 5742.253     | 5751.488     | 5742.253     | 5722.975     | 5712.966     | 5717.957     |
| 40.0 | 5500.268     | 5513.426     | 5515.113     | 5513.426     | 5500.268     | 5487.607     | 5472.701     |
| 42.5 | 5255.319     | 5270.700     | 5293.616     | 5270.700     | 5255.319     | 5247.614     | 5231.233     |
| 45.0 | 5010.696     | 5024.459     | 5037.957     | 5024.459     | 5010.696     | 4994.158     | 4981.367     |
| 47.5 | 4750.752     | 4765.120     | 4767.630     | 4765.120     | 4750.752     | 4740.613     | 4735.588     |
| 50.0 | 4486.137     | 4500.308     | 4501.654     | 4500.308     | 4486.137     | 4468.491     | 4457.373     |
| 52.5 | 4207.650     | 4219.638     | 4235.142     | 4219.638     | 4207.650     | 4185.441     | 4182.469     |
| 55.0 | 3925.082     | 3938.492     | 3949.950     | 3938.492     | 3925.082     | 3905.396     | 3906.389     |
| 57.5 | 3635.586     | 3644.045     | 3660.372     | 3644.045     | 3635.586     | 3619.558     | 3610.161     |
| 60.0 | 3339.290     | 3353.903     | 3365.157     | 3353.903     | 3339.290     | 3318.849     | 3313.014     |
| 62.5 | 3046.509     | 3059.538     | 3065.426     | 3059.538     | 3046.509     | 3025.198     | 3013.189     |
| 65.0 | 2740.121     | 2760.229     | 2766.077     | 2760.229     | 2740.121     | 2717.566     | 2720.728     |
| 67.5 | 2432.360     | 2455.072     | 2459.322     | 2455.072     | 2432.360     | 2420.365     | 2418.991     |
| 70.0 | 2132.358     | 2149.636     | 2169.472     | 2149.636     | 2132.358     | 2116.514     | 2113.168     |
| 72.5 | 1838.720     | 1848.566     | 1862.330     | 1848.566     | 1838.720     | 1822.706     | 1815.899     |
| 75.0 | 1538.520     | 1555.010     | 1566.618     | 1555.010     | 1538.520     | 1531.442     | 1527.511     |
| 77.5 | 1247.922     | 1268.248     | 1276.047     | 1268.248     | 1247.922     | 1243.686     | 1243.020     |
| 80.0 | 973.801      | 985.170      | 999.117      | 985.170      | 973.801      | 970.652      | 969.918      |

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CANDELA TABULATION - (Cont.)

|       |         |         |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|---------|---------|
| 82.5  | 706.126 | 712.511 | 720.868 | 712.511 | 706.126 | 700.359 | 697.272 |
| 85.0  | 442.952 | 455.328 | 460.278 | 455.328 | 442.952 | 444.196 | 434.724 |
| 87.5  | 209.569 | 214.676 | 216.920 | 214.676 | 209.569 | 211.732 | 206.924 |
| 90.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 92.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 95.0  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 97.5  | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 100.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 102.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 105.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 107.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 110.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 112.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 115.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 117.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 120.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 122.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 125.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 127.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 130.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 132.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 135.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 137.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 140.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 142.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 145.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 147.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 150.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 152.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 155.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 157.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 160.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 162.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 165.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 167.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 170.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 172.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 175.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 177.5 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |
| 180.0 | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   | 0.000   |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-40-LED35-SO-D1.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 2744.53  | N.A.  | 12.60  |
| 0-30    | 5827.18  | N.A.  | 26.80  |
| 0-40    | 9544.69  | N.A.  | 43.90  |
| 0-60    | 16914.23 | N.A.  | 77.70  |
| 0-80    | 21258.55 | N.A.  | 97.70  |
| 0-90    | 21763.43 | N.A.  | 100.00 |
| 10-90   | 21053.24 | N.A.  | 96.70  |
| 20-40   | 6800.16  | N.A.  | 31.20  |
| 20-50   | 10663.99 | N.A.  | 49.00  |
| 40-70   | 10080.72 | N.A.  | 46.30  |
| 60-80   | 4344.31  | N.A.  | 20.00  |
| 70-80   | 1633.13  | N.A.  | 7.50   |
| 80-90   | 504.89   | N.A.  | 2.30   |
| 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   | 21763.43 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 710.20  |
| 10-20   | 2034.33 |
| 20-30   | 3082.66 |
| 30-40   | 3717.51 |
| 40-50   | 3863.83 |
| 50-60   | 3505.71 |
| 60-70   | 2711.18 |
| 70-80   | 1633.13 |
| 80-90   | 504.89  |
| 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    |

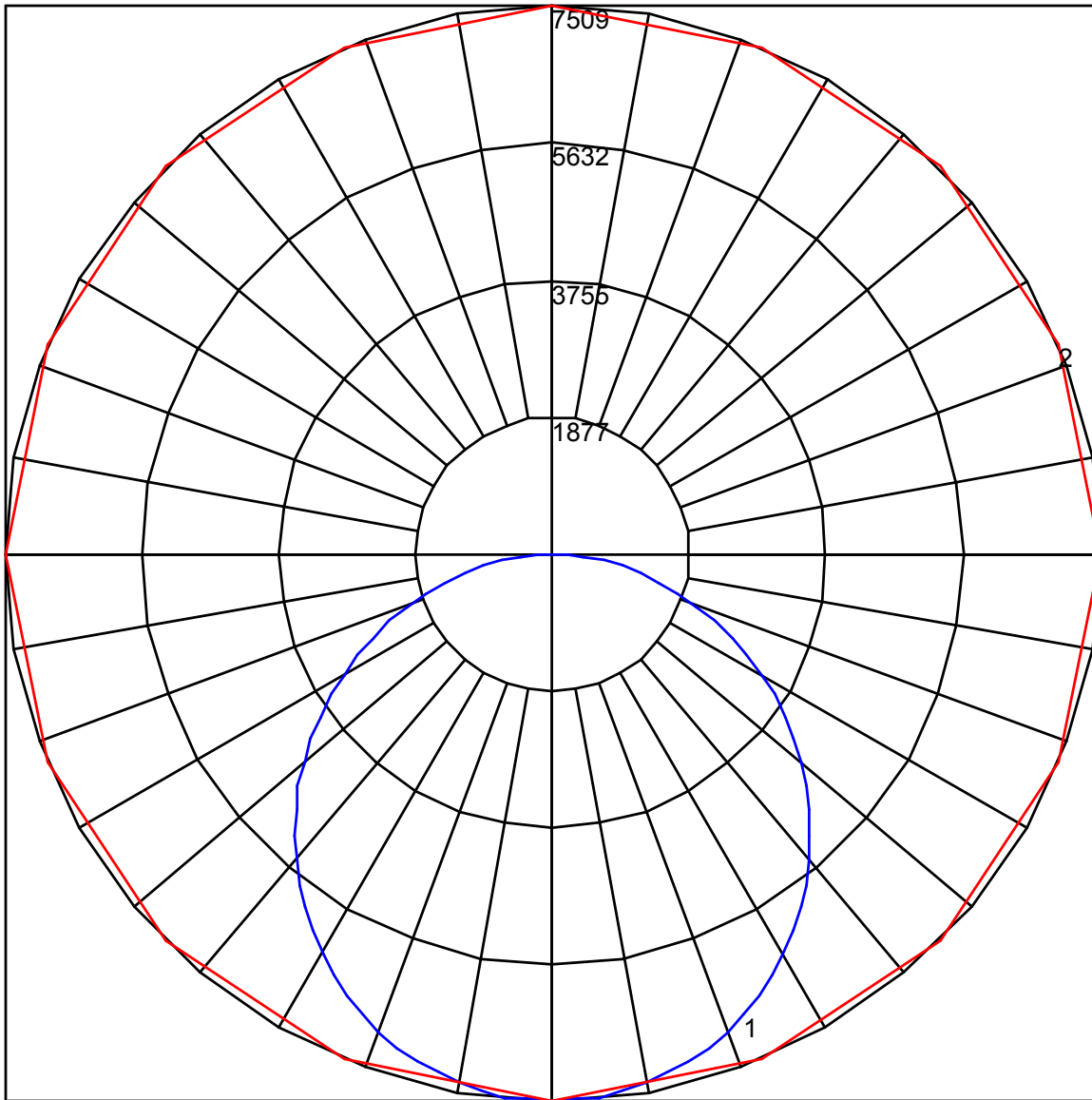
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : QUAD-40-LED35-SO-D1.IES**

**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  | 108 | 103 | 99  | 95  | 106 | 101 | 97  | 94  | 97  | 94  | 91  | 93  | 90  | 88  | 89  | 87  | 85  | 83  |
| 2  | 98  | 90  | 83  | 77  | 96  | 88  | 82  | 76  | 84  | 79  | 74  | 81  | 77  | 73  | 78  | 74  | 71  | 69  |
| 3  | 90  | 79  | 71  | 64  | 87  | 77  | 70  | 63  | 74  | 68  | 62  | 71  | 66  | 61  | 69  | 64  | 60  | 58  |
| 4  | 82  | 70  | 61  | 54  | 80  | 68  | 60  | 54  | 66  | 59  | 53  | 64  | 57  | 52  | 61  | 56  | 51  | 49  |
| 5  | 75  | 62  | 53  | 46  | 73  | 61  | 53  | 46  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 42  |
| 6  | 70  | 56  | 47  | 40  | 68  | 55  | 46  | 40  | 53  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 37  |
| 7  | 64  | 51  | 42  | 36  | 63  | 50  | 42  | 36  | 48  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 35  | 33  |
| 8  | 60  | 46  | 38  | 32  | 58  | 46  | 37  | 32  | 44  | 37  | 31  | 43  | 36  | 31  | 42  | 36  | 31  | 29  |
| 9  | 56  | 42  | 34  | 29  | 55  | 42  | 34  | 28  | 41  | 33  | 28  | 40  | 33  | 28  | 39  | 32  | 28  | 26  |
| 10 | 53  | 39  | 31  | 26  | 51  | 39  | 31  | 26  | 38  | 31  | 26  | 37  | 30  | 26  | 36  | 30  | 25  | 24  |

POLAR GRAPH



Maximum Candela = 7509.016 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)