



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-8L-T5-740.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-14137

[TESTLAB] LSI INDUSTRIES, INC.

[TESTDATE] 07/06/23

[ISSUE DATE] 07/06/23

[MANUFAC] LSI INDUSTRIES, INC.

[LUMCAT] APC-8L-T5-740

[TEST PROCEDURE] IESNA LM-79-19

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[FACTORED] SCALED FROM ORIGINAL TEST DATA

[SEARCH\_SOURCETYPE] LED

[SEARCH\_APPLICATION] Outdoor

[SEARCH\_COLORTEMP] 4000

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 8556               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 126                |
| Total Luminaire Watts           | 68                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 1.72               |
| Spacing Criterion (90-270)      | 1.66               |
| Spacing Criterion (Diagonal)    | 1.88               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 1.50 ft (Diameter) |
| Luminous Width (90-270)         | 1.50 ft (Diameter) |
| 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                  | 15543            | 14880             | 14450             |
| 55                  | 19755            | 18588             | 18450             |
| 65                  | 22881            | 23399             | 23197             |
| 75                  | 24406            | 26545             | 25558             |
| 85                  | 23251            | 24857             | 24787             |

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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> |
|------|------------|-------------|-------------|-------------|-------------|
| 0.0  | 1524       | 1524        | 1524        | 1524        | 1524        |
| 2.5  | 1528       | 1528        | 1528        | 1528        | 1527        |
| 5.0  | 1541       | 1540        | 1538        | 1535        | 1533        |
| 7.5  | 1561       | 1560        | 1554        | 1546        | 1542        |
| 10.0 | 1584       | 1583        | 1574        | 1561        | 1555        |
| 12.5 | 1610       | 1607        | 1597        | 1581        | 1572        |
| 15.0 | 1634       | 1632        | 1623        | 1605        | 1593        |
| 17.5 | 1658       | 1656        | 1649        | 1631        | 1615        |
| 20.0 | 1681       | 1680        | 1676        | 1657        | 1636        |
| 22.5 | 1704       | 1700        | 1699        | 1683        | 1653        |
| 25.0 | 1722       | 1717        | 1720        | 1704        | 1665        |
| 27.5 | 1731       | 1725        | 1737        | 1722        | 1673        |
| 30.0 | 1730       | 1724        | 1751        | 1737        | 1672        |
| 32.5 | 1723       | 1713        | 1759        | 1750        | 1668        |
| 35.0 | 1715       | 1693        | 1760        | 1762        | 1665        |
| 37.5 | 1717       | 1672        | 1756        | 1775        | 1665        |
| 40.0 | 1735       | 1662        | 1747        | 1789        | 1667        |
| 42.5 | 1767       | 1668        | 1737        | 1803        | 1670        |
| 45.0 | 1806       | 1690        | 1729        | 1818        | 1679        |
| 47.5 | 1840       | 1722        | 1729        | 1831        | 1693        |
| 50.0 | 1863       | 1757        | 1737        | 1838        | 1711        |
| 52.5 | 1871       | 1787        | 1747        | 1836        | 1727        |
| 55.0 | 1862       | 1805        | 1752        | 1821        | 1739        |
| 57.5 | 1831       | 1806        | 1747        | 1791        | 1740        |
| 60.0 | 1779       | 1783        | 1730        | 1747        | 1723        |
| 62.5 | 1695       | 1734        | 1691        | 1683        | 1681        |
| 65.0 | 1589       | 1653        | 1625        | 1600        | 1611        |
| 67.5 | 1468       | 1546        | 1534        | 1495        | 1516        |
| 70.0 | 1333       | 1417        | 1420        | 1371        | 1389        |
| 72.5 | 1190       | 1270        | 1285        | 1230        | 1250        |
| 75.0 | 1038       | 1107        | 1129        | 1071        | 1087        |
| 77.5 | 880        | 934         | 948         | 904         | 919         |
| 80.0 | 712        | 740         | 760         | 726         | 739         |
| 82.5 | 526        | 547         | 561         | 540         | 549         |
| 85.0 | 333        | 343         | 356         | 345         | 355         |
| 87.5 | 161        | 163         | 165         | 167         | 172         |
| 90.0 | 0          | 0           | 0           | 0           | 0           |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 608.16  | N.A.  | 7.10   |
| 0-30    | 1397.98 | N.A.  | 16.30  |
| 0-40    | 2482.43 | N.A.  | 29.00  |
| 0-60    | 5436.77 | N.A.  | 63.50  |
| 0-80    | 8167.27 | N.A.  | 95.50  |
| 0-90    | 8555.72 | N.A.  | 100.00 |
| 10-90   | 8407.85 | N.A.  | 98.30  |
| 20-40   | 1874.26 | N.A.  | 21.90  |
| 20-50   | 3228.38 | N.A.  | 37.70  |
| 40-70   | 4542.18 | N.A.  | 53.10  |
| 60-80   | 2730.51 | N.A.  | 31.90  |
| 70-80   | 1142.67 | N.A.  | 13.40  |
| 80-90   | 388.45  | N.A.  | 4.50   |
| 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   | 8555.72 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 147.87  |
| 10-20   | 460.29  |
| 20-30   | 789.82  |
| 30-40   | 1084.44 |
| 40-50   | 1354.12 |
| 50-60   | 1600.22 |
| 60-70   | 1587.83 |
| 70-80   | 1142.67 |
| 80-90   | 388.45  |
| 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    |

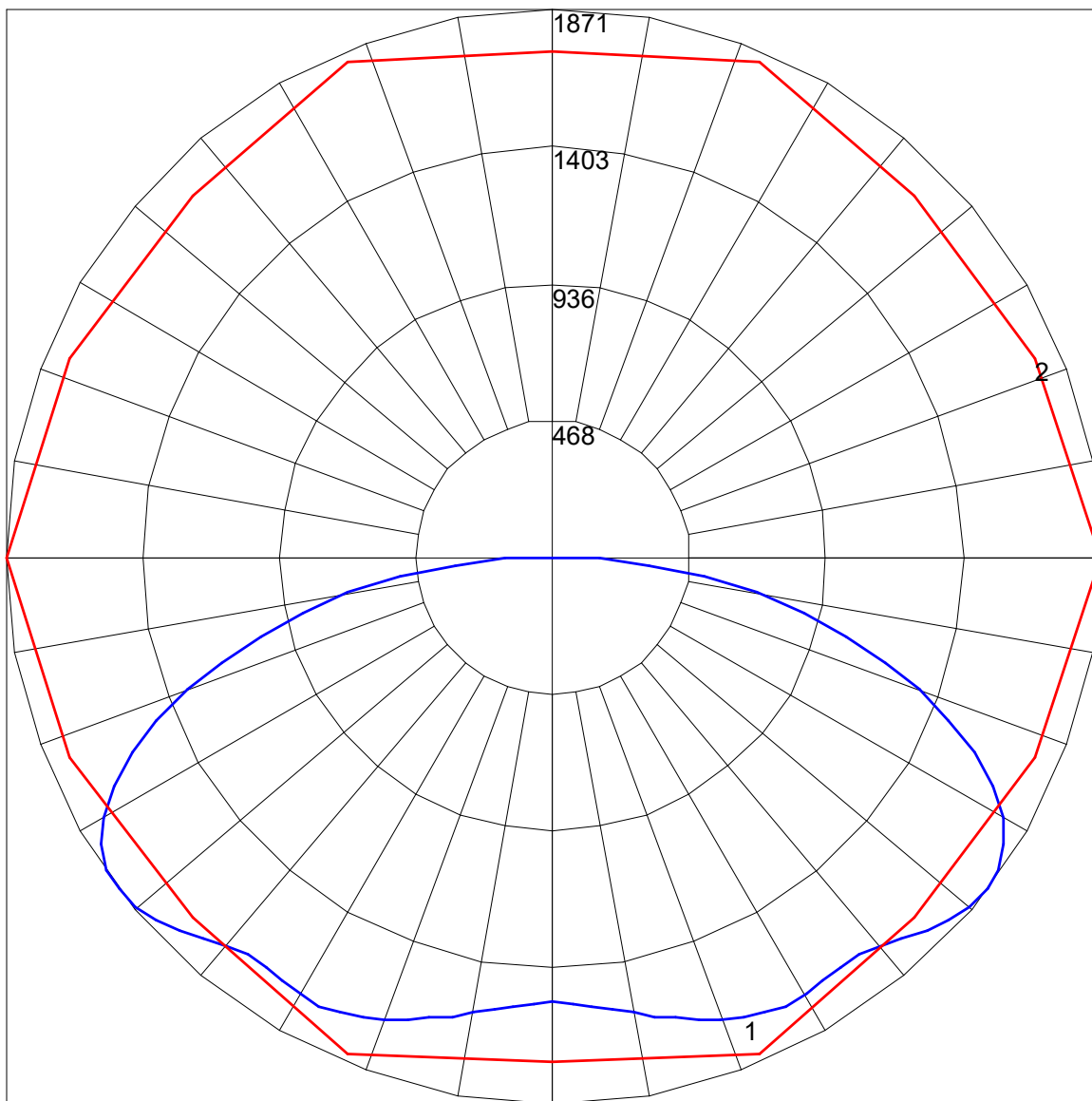
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1  | 106 | 100 | 94  | 89  | 103 | 97  | 92  | 88  | 93  | 89  | 85  | 89  | 85  | 82  | 85  | 82  | 80  | 77  |
| 2  | 94  | 84  | 75  | 68  | 91  | 82  | 74  | 67  | 78  | 71  | 66  | 75  | 69  | 64  | 71  | 67  | 63  | 60  |
| 3  | 84  | 71  | 62  | 54  | 81  | 70  | 61  | 53  | 67  | 59  | 52  | 64  | 57  | 51  | 61  | 55  | 50  | 48  |
| 4  | 76  | 62  | 52  | 44  | 73  | 60  | 51  | 43  | 58  | 49  | 43  | 55  | 48  | 42  | 53  | 47  | 41  | 39  |
| 5  | 69  | 54  | 44  | 36  | 67  | 53  | 43  | 36  | 51  | 42  | 36  | 49  | 41  | 35  | 47  | 40  | 35  | 32  |
| 6  | 63  | 48  | 38  | 31  | 61  | 47  | 38  | 31  | 45  | 37  | 30  | 43  | 36  | 30  | 42  | 35  | 30  | 27  |
| 7  | 58  | 43  | 33  | 26  | 56  | 42  | 33  | 26  | 41  | 32  | 26  | 39  | 32  | 26  | 38  | 31  | 26  | 23  |
| 8  | 54  | 39  | 30  | 23  | 52  | 38  | 29  | 23  | 37  | 29  | 23  | 36  | 28  | 23  | 34  | 27  | 22  | 20  |
| 9  | 50  | 35  | 26  | 20  | 49  | 35  | 26  | 20  | 34  | 26  | 20  | 32  | 25  | 20  | 31  | 25  | 20  | 18  |
| 10 | 47  | 33  | 24  | 18  | 46  | 32  | 24  | 18  | 31  | 23  | 18  | 30  | 23  | 18  | 29  | 22  | 18  | 16  |

POLAR GRAPH



Maximum Candela = 1871 Located At Horizontal Angle = 0, Vertical Angle = 52.5

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (52.5) (Through Max. Cd.)