

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00657\_3 ~ C0816ADJUDXT-20LXWGL-20LXW-XXK-EX-TSG-SO (UP\_DOWN).IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00657\_3  
 [TESTLAB] Photopia 2015.1.1 see: [www.ltiopics.com/ies](http://www.ltiopics.com/ies)  
 [TESTDATE] Thu Aug 11 2016  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE]  
 [UPDATE] 4/6/2018  
 [LUMCAT] C0816ADJUDXT-20L-XW-GL-20L-XW-xxK-EX-TSG-GL-xxx (Up/Down)  
 [LUMINAIRE] 8" Diam. x 16" H, Direct/Indirect Cylinder, Wall Mounted  
 [OTHER] Uplight: Xtra Wide Beam, Flush Clear Glass lens  
 [OTHER] Uplight: 63 Degree Beam Angle  
 [OTHER] Downlight: Xtra Wide Beam, Flush Clear Glass lens  
 [OTHER] Downlight: 60.1 Degree Beam Angle  
 [OTHER] Trim: Semi-diffuse clear anodized alum.  
 [LAMP] N/A  
 [LAMPCAT] N/A, 19mm LES indirect  
 [OTHER] N/A, 19mm LES direct  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] See Catalog cut sheet for different source lumen multipliers  
 [OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 3411               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 79                 |
| Total Luminaire Watts           | 43.4               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | General Diffuse    |
| Spacing Criterion (0-180)       | N.A.               |
| Spacing Criterion (90-270)      | N.A.               |
| Spacing Criterion (Diagonal)    | N.A.               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.63 ft (Diameter) |
| Luminous Width (90-270)         | 0.63 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00657\_3 ~ C0816ADJUDXT-20LXWGL-20LXW-XXK-EX-TSG-SO (UP\_DOWN).IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 5363             | 5517              | 5515              |
| 55                  | 1475             | 1558              | 1549              |
| 65                  | 811              | 821               | 844               |
| 75                  | 502              | 437               | 448               |
| 85                  | 4                | 20                | 28                |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00657\_3 ~ C0816ADJUDXT-20LXWGL-20LXW-XXK-EX-TSG-SO (UP\_DOWN).IES****CANDELA TABULATION**

|              | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|--------------|------------|-------------|-------------|-------------|-------------|
| <b>0.0</b>   | 1937.43    | 1937.43     | 1937.43     | 1937.43     | 1937.43     |
| <b>2.5</b>   | 1924.81    | 1928.04     | 1927.48     | 1929.04     | 1933.41     |
| <b>5.0</b>   | 1912.19    | 1918.65     | 1917.52     | 1920.65     | 1929.39     |
| <b>7.5</b>   | 1882.18    | 1888.86     | 1884.65     | 1887.59     | 1892.37     |
| <b>10.0</b>  | 1852.16    | 1859.06     | 1851.77     | 1854.52     | 1855.34     |
| <b>12.5</b>  | 1754.40    | 1759.01     | 1755.45     | 1761.30     | 1758.71     |
| <b>15.0</b>  | 1656.64    | 1658.95     | 1659.12     | 1668.07     | 1662.08     |
| <b>17.5</b>  | 1513.89    | 1514.40     | 1514.57     | 1523.55     | 1512.70     |
| <b>20.0</b>  | 1371.13    | 1369.85     | 1370.01     | 1379.02     | 1363.32     |
| <b>22.5</b>  | 1223.20    | 1224.52     | 1228.04     | 1227.47     | 1220.66     |
| <b>25.0</b>  | 1075.26    | 1079.18     | 1086.07     | 1075.91     | 1078.00     |
| <b>27.5</b>  | 943.91     | 947.13      | 951.24      | 947.79      | 949.71      |
| <b>30.0</b>  | 812.55     | 815.08      | 816.41      | 819.66      | 821.42      |
| <b>32.5</b>  | 688.43     | 686.34      | 691.03      | 692.28      | 693.54      |
| <b>35.0</b>  | 564.30     | 557.60      | 565.64      | 564.89      | 565.66      |
| <b>37.5</b>  | 430.26     | 426.49      | 429.92      | 429.81      | 430.03      |
| <b>40.0</b>  | 296.21     | 295.37      | 294.20      | 294.73      | 294.40      |
| <b>42.5</b>  | 202.20     | 203.86      | 202.75      | 202.50      | 202.83      |
| <b>45.0</b>  | 108.19     | 112.34      | 111.30      | 110.27      | 111.26      |
| <b>47.5</b>  | 77.55      | 79.28       | 79.20       | 78.30       | 79.16       |
| <b>50.0</b>  | 46.91      | 46.21       | 47.09       | 46.32       | 47.06       |
| <b>52.5</b>  | 35.53      | 36.09       | 36.30       | 35.72       | 36.20       |
| <b>55.0</b>  | 24.14      | 25.96       | 25.50       | 25.11       | 25.34       |
| <b>57.5</b>  | 19.73      | 20.91       | 20.80       | 20.40       | 20.71       |
| <b>60.0</b>  | 15.31      | 15.85       | 16.10       | 15.69       | 16.07       |
| <b>62.5</b>  | 12.55      | 12.61       | 13.00       | 12.58       | 13.12       |
| <b>65.0</b>  | 9.78       | 9.36        | 9.90        | 9.47        | 10.17       |
| <b>67.5</b>  | 7.79       | 7.59        | 7.97        | 7.55        | 7.99        |
| <b>70.0</b>  | 5.80       | 5.82        | 6.03        | 5.63        | 5.81        |
| <b>72.5</b>  | 4.76       | 4.66        | 4.63        | 4.39        | 4.56        |
| <b>75.0</b>  | 3.71       | 3.50        | 3.23        | 3.14        | 3.31        |
| <b>77.5</b>  | 1.92       | 1.80        | 1.69        | 1.62        | 1.71        |
| <b>80.0</b>  | 0.12       | 0.10        | 0.14        | 0.10        | 0.11        |
| <b>82.5</b>  | 0.07       | 0.07        | 0.10        | 0.07        | 0.09        |
| <b>85.0</b>  | 0.01       | 0.03        | 0.05        | 0.04        | 0.07        |
| <b>87.5</b>  | 0.02       | 0.02        | 0.03        | 0.02        | 0.04        |
| <b>90.0</b>  | 0.02       | 0.01        | 0.00        | 0.00        | 0.00        |
| <b>92.5</b>  | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>95.0</b>  | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>97.5</b>  | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>100.0</b> | 0.00       | 0.00        | 0.00        | 0.00        | 0.00        |
| <b>102.5</b> | 0.02       | 0.02        | 0.01        | 0.01        | 0.04        |
| <b>105.0</b> | 0.04       | 0.03        | 0.01        | 0.02        | 0.07        |
| <b>107.5</b> | 0.88       | 0.96        | 0.88        | 0.95        | 1.04        |
| <b>110.0</b> | 1.71       | 1.89        | 1.74        | 1.88        | 2.00        |
| <b>112.5</b> | 2.30       | 2.45        | 2.33        | 2.23        | 2.34        |
| <b>115.0</b> | 2.88       | 3.00        | 2.92        | 2.57        | 2.68        |
| <b>117.5</b> | 4.42       | 4.45        | 4.41        | 4.37        | 4.17        |
| <b>120.0</b> | 5.96       | 5.90        | 5.89        | 6.16        | 5.66        |
| <b>122.5</b> | 7.50       | 7.58        | 7.40        | 7.72        | 7.52        |
| <b>125.0</b> | 9.03       | 9.26        | 8.90        | 9.28        | 9.38        |

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|       |         |         |         |         |         |
|-------|---------|---------|---------|---------|---------|
| 127.5 | 33.07   | 33.87   | 33.63   | 33.16   | 33.84   |
| 130.0 | 57.11   | 58.47   | 58.35   | 57.03   | 58.30   |
| 132.5 | 158.64  | 159.13  | 159.02  | 156.56  | 159.98  |
| 135.0 | 260.17  | 259.79  | 259.68  | 256.09  | 261.65  |
| 137.5 | 368.93  | 367.20  | 368.91  | 364.90  | 367.52  |
| 140.0 | 477.69  | 474.60  | 478.13  | 473.70  | 473.39  |
| 142.5 | 582.97  | 583.04  | 585.94  | 581.06  | 580.85  |
| 145.0 | 688.24  | 691.47  | 693.74  | 688.42  | 688.31  |
| 147.5 | 776.02  | 780.55  | 780.10  | 777.13  | 778.81  |
| 150.0 | 863.80  | 869.62  | 866.45  | 865.83  | 869.30  |
| 152.5 | 968.10  | 969.08  | 966.31  | 967.63  | 973.17  |
| 155.0 | 1072.39 | 1068.53 | 1066.16 | 1069.43 | 1077.03 |
| 157.5 | 1193.63 | 1193.58 | 1194.00 | 1200.72 | 1193.67 |
| 160.0 | 1314.86 | 1318.63 | 1321.83 | 1332.01 | 1310.31 |
| 162.5 | 1500.37 | 1498.74 | 1503.27 | 1505.67 | 1496.58 |
| 165.0 | 1685.88 | 1678.84 | 1684.71 | 1679.33 | 1682.84 |
| 167.5 | 1800.76 | 1814.73 | 1812.50 | 1809.09 | 1794.45 |
| 170.0 | 1915.64 | 1950.62 | 1940.29 | 1938.85 | 1906.06 |
| 172.5 | 1961.01 | 1975.76 | 1972.36 | 1972.43 | 1945.05 |
| 175.0 | 2006.37 | 2000.90 | 2004.43 | 2006.01 | 1984.04 |
| 177.5 | 1979.12 | 1976.38 | 1978.15 | 1978.94 | 1967.95 |
| 180.0 | 1951.00 | 1951.00 | 1951.00 | 1951.00 | 1951.00 |

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| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 638.01  | N.A.  | 18.70  |
| 0-30    | 1133.58 | N.A.  | 33.20  |
| 0-40    | 1478.74 | N.A.  | 43.40  |
| 0-60    | 1610.3  | N.A.  | 47.20  |
| 0-80    | 1623.73 | N.A.  | 47.60  |
| 0-90    | 1623.78 | N.A.  | 47.60  |
| 10-90   | 1442.91 | N.A.  | 42.30  |
| 20-40   | 840.73  | N.A.  | 24.70  |
| 20-50   | 947.17  | N.A.  | 27.80  |
| 40-70   | 141.67  | N.A.  | 4.20   |
| 60-80   | 13.43   | N.A.  | 0.40   |
| 70-80   | 3.32    | N.A.  | 0.10   |
| 80-90   | 0.06    | N.A.  | 0.00   |
| 90-110  | 0.50    | N.A.  | 0.00   |
| 90-120  | 3.80    | N.A.  | 0.10   |
| 90-130  | 21.78   | N.A.  | 0.60   |
| 90-150  | 643.92  | N.A.  | 18.90  |
| 90-180  | 1786.89 | N.A.  | 52.40  |
| 110-180 | 1786.39 | N.A.  | 52.40  |
| 0-180   | 3410.67 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 180.88 |
| 10-20   | 457.14 |
| 20-30   | 495.56 |
| 30-40   | 345.17 |
| 40-50   | 106.44 |
| 50-60   | 25.11  |
| 60-70   | 10.11  |
| 70-80   | 3.32   |
| 80-90   | 0.06   |
| 90-100  | 0.00   |
| 100-110 | 0.50   |
| 110-120 | 3.30   |
| 120-130 | 17.98  |
| 130-140 | 199.19 |
| 140-150 | 422.94 |
| 150-160 | 494.64 |
| 160-170 | 460.28 |
| 170-180 | 188.04 |

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

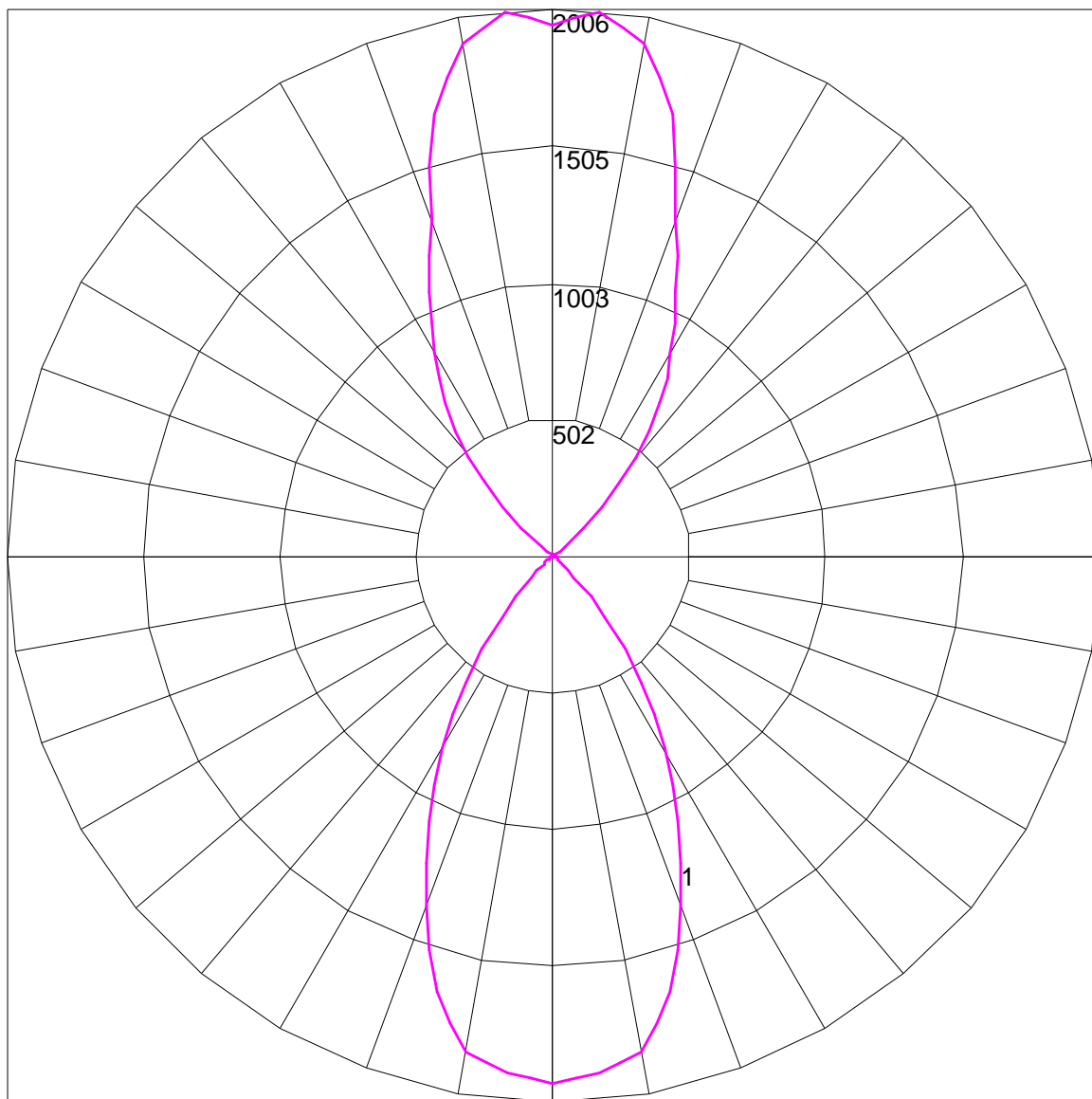
Effective Floor Cavity Reflectance 0.20

| 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  | 107 | 107 | 107 | 107 | 98 | 98 | 98 | 98 | 82 | 82 | 82 | 67 | 67 | 67 | 54 | 54 | 54 | 48 |
| 1  | 99  | 96  | 93  | 90  | 92 | 89 | 86 | 84 | 75 | 73 | 72 | 63 | 61 | 60 | 51 | 50 | 50 | 44 |
| 2  | 93  | 87  | 82  | 78  | 85 | 80 | 76 | 73 | 69 | 66 | 63 | 58 | 56 | 54 | 48 | 47 | 46 | 41 |
| 3  | 86  | 79  | 73  | 68  | 80 | 73 | 68 | 64 | 63 | 60 | 57 | 54 | 51 | 49 | 45 | 44 | 42 | 38 |
| 4  | 80  | 72  | 65  | 60  | 74 | 67 | 62 | 57 | 58 | 54 | 51 | 50 | 47 | 45 | 42 | 41 | 39 | 36 |
| 5  | 75  | 66  | 59  | 54  | 70 | 62 | 56 | 51 | 54 | 50 | 46 | 47 | 44 | 41 | 40 | 38 | 36 | 33 |
| 6  | 70  | 60  | 54  | 49  | 65 | 57 | 51 | 47 | 50 | 46 | 42 | 44 | 40 | 38 | 38 | 35 | 34 | 31 |
| 7  | 66  | 56  | 49  | 44  | 61 | 53 | 47 | 42 | 46 | 42 | 39 | 41 | 38 | 35 | 35 | 33 | 31 | 29 |
| 8  | 62  | 52  | 45  | 41  | 58 | 49 | 43 | 39 | 43 | 39 | 36 | 38 | 35 | 33 | 33 | 31 | 29 | 27 |
| 9  | 58  | 48  | 42  | 37  | 55 | 45 | 40 | 36 | 41 | 36 | 33 | 36 | 33 | 30 | 32 | 29 | 28 | 26 |
| 10 | 55  | 45  | 39  | 34  | 52 | 43 | 37 | 33 | 38 | 34 | 31 | 34 | 31 | 28 | 30 | 28 | 26 | 24 |

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## POLAR GRAPH



Maximum Candela = 2006.37 Located At Horizontal Angle = 0, Vertical Angle = 175  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)