

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX6XT-50LXXKMDE1-SD6XMWSOX.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2014.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Wed Sep 30 2015

[UPDATE] Thu Jan 21 2016

[TEST] SP-00488\_1

[MANUFAC] Spectrum Lighting

[LUMCAT] SDxx6XT-50L-xxK-MD-E1-SD6x-MW-SOX

[LUMINAIRE] 6" Square, Downlight, Medium Beam

[TRIM] Matte White, regressed Solite Lens

[LAMP] N/A, Min. 83 CRI

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] For Housings: SDFO6, and SDZO6 series

[OTHER] For Trims: SD6F and SD6N series

[OTHER] LEDXT lumen output is the same for all available color temperatures

[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 3643                |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 67                  |
| Total Luminaire Watts           | 54                  |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 0.58                |
| Spacing Criterion (90-270)      | 0.58                |
| Spacing Criterion (Diagonal)    | 0.76                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 0.79 ft             |
| Luminous Width (90-270)         | 0.93 ft             |
| Luminous Height                 | 0.82 ft             |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SDXX6XT-50LXXKMDE1-SD6XMWSOX.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 1991             | 2291              | 2201              |
| 55                  | 1693             | 1559              | 1865              |
| 65                  | 1375             | 1201              | 1557              |
| 75                  | 921              | 807               | 1091              |
| 85                  | 363              | 287               | 411               |

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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> |
|-----------|------------|-------------|-------------|-------------|-------------|
| <b>0</b>  | 5532.98    | 5532.98     | 5532.98     | 5532.98     | 5532.98     |
| <b>5</b>  | 5025.14    | 5031.55     | 5097.81     | 5052.96     | 5187.80     |
| <b>10</b> | 4157.27    | 4125.56     | 4144.52     | 4120.11     | 4109.45     |
| <b>15</b> | 3180.86    | 3196.37     | 3172.99     | 3163.47     | 3168.24     |
| <b>20</b> | 2728.68    | 2726.94     | 2767.66     | 2739.01     | 2700.52     |
| <b>25</b> | 2197.99    | 2249.67     | 2261.31     | 2269.35     | 2192.38     |
| <b>30</b> | 1582.49    | 1706.22     | 1794.61     | 1720.83     | 1579.60     |
| <b>35</b> | 570.94     | 987.29      | 1510.82     | 989.09      | 573.16      |
| <b>40</b> | 221.24     | 289.83      | 846.00      | 288.20      | 217.33      |
| <b>45</b> | 195.20     | 213.50      | 259.90      | 207.90      | 199.69      |
| <b>50</b> | 191.98     | 192.97      | 199.22      | 195.62      | 177.59      |
| <b>55</b> | 163.86     | 172.63      | 178.82      | 176.59      | 164.74      |
| <b>60</b> | 148.44     | 155.60      | 161.01      | 153.16      | 149.44      |
| <b>65</b> | 127.37     | 135.75      | 134.98      | 137.86      | 129.58      |
| <b>70</b> | 109.52     | 114.62      | 114.71      | 113.08      | 108.74      |
| <b>75</b> | 78.85      | 82.52       | 86.11       | 83.61       | 82.51       |
| <b>80</b> | 53.10      | 53.01       | 52.56       | 53.32       | 52.91       |
| <b>85</b> | 27.61      | 25.39       | 28.07       | 26.91       | 27.01       |
| <b>90</b> | 8.72       | 7.52        | 6.15        | 7.05        | 5.00        |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1376.88 | N.A.  | 37.80  |
| 0-30    | 2398.48 | N.A.  | 65.80  |
| 0-40    | 3036.21 | N.A.  | 83.30  |
| 0-60    | 3391.77 | N.A.  | 93.10  |
| 0-80    | 3612.3  | N.A.  | 99.20  |
| 0-90    | 3643.26 | N.A.  | 100.00 |
| 10-90   | 3187.26 | N.A.  | 87.50  |
| 20-40   | 1659.33 | N.A.  | 45.50  |
| 20-50   | 1859.49 | N.A.  | 51.00  |
| 40-70   | 488.38  | N.A.  | 13.40  |
| 60-80   | 220.53  | N.A.  | 6.10   |
| 70-80   | 87.71   | N.A.  | 2.40   |
| 80-90   | 30.97   | N.A.  | 0.90   |
| 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   | 3643.26 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 456.01  |
| 10-20   | 920.88  |
| 20-30   | 1021.59 |
| 30-40   | 637.73  |
| 40-50   | 200.16  |
| 50-60   | 155.39  |
| 60-70   | 132.82  |
| 70-80   | 87.71   |
| 80-90   | 30.97   |
| 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    |

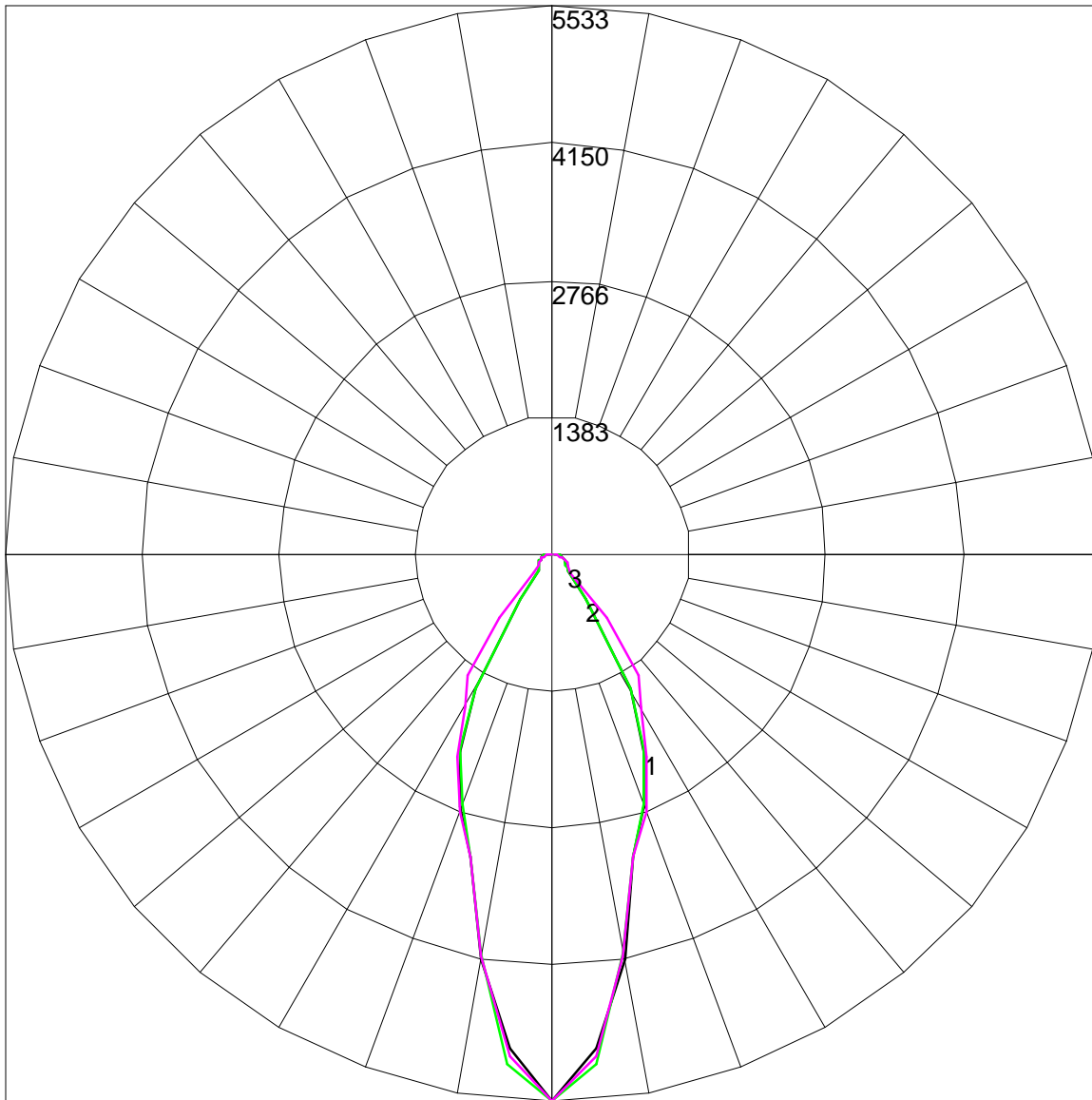
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 112 | 109 | 106 | 104 | 110 | 107 | 104 | 102 | 103 | 101 | 99  | 99  | 97  | 96  | 96  | 94  | 93  | 91  |
| 2  | 106 | 100 | 96  | 92  | 104 | 99  | 94  | 91  | 95  | 92  | 89  | 92  | 89  | 87  | 89  | 87  | 85  | 83  |
| 3  | 100 | 93  | 87  | 83  | 98  | 91  | 86  | 82  | 89  | 84  | 81  | 86  | 82  | 79  | 84  | 81  | 78  | 76  |
| 4  | 95  | 86  | 80  | 75  | 93  | 85  | 79  | 75  | 83  | 78  | 74  | 81  | 77  | 73  | 79  | 75  | 72  | 71  |
| 5  | 90  | 80  | 74  | 69  | 88  | 80  | 74  | 69  | 78  | 72  | 68  | 76  | 71  | 68  | 74  | 70  | 67  | 66  |
| 6  | 85  | 75  | 69  | 64  | 83  | 75  | 69  | 64  | 73  | 68  | 64  | 72  | 67  | 63  | 70  | 66  | 63  | 61  |
| 7  | 81  | 71  | 64  | 60  | 79  | 70  | 64  | 60  | 69  | 63  | 60  | 68  | 63  | 59  | 66  | 62  | 59  | 57  |
| 8  | 77  | 67  | 61  | 56  | 76  | 66  | 60  | 56  | 65  | 60  | 56  | 64  | 59  | 56  | 63  | 59  | 55  | 54  |
| 9  | 73  | 63  | 57  | 53  | 72  | 63  | 57  | 53  | 62  | 56  | 53  | 61  | 56  | 52  | 60  | 55  | 52  | 51  |
| 10 | 70  | 60  | 54  | 50  | 69  | 59  | 54  | 50  | 59  | 53  | 50  | 58  | 53  | 49  | 57  | 53  | 49  | 48  |

POLAR GRAPH



Maximum Candela = 5532.98 Located At Horizontal Angle = 0, Vertical Angle = 0

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

# 2 - Vertical Plane Through Horizontal Angles (90 - 270)

# 3 - Vertical Plane Through Horizontal Angles (45 - 225)