

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00545\_47 ~ SR3DMX-XT30LE1-RDD3X-XXK-WDMWGL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00545\_47\_M-30L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 2/14/2017  
 [UPDATE] 4/27/2017  
 [LUMCAT] SR3DMx-XT30L-E1-RDD3x-xxK-WD-MW-GL  
 [LUMINAIRE] Nominal 3" Round Downlight, Deep profile, Wide Beam  
 [OTHER] Matte White Trim, clear glass lens  
 [OTHER] 54.6 Degree Beam Angle  
 [LAMP] N/A  
 [LAMPCAT] N/A, Min. 83 CRI  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] For New Construction Non-IC Housing: SR3DMO-XT-series  
 [OTHER] For Remodel/Retrofit Housing: SR3DMR-XT-Series  
 [OTHER] For RDD3F or RDD3N Downlight Trim  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] This report prepared by Spectrum Lighting, scaled from 20L

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2846               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 82                 |
| Total Luminaire Watts           | 34.6               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.84               |
| Spacing Criterion (90-270)      | 0.84               |
| Spacing Criterion (Diagonal)    | 0.86               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.00 ft            |
| Luminous Width (90-270)         | 0.29 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_47 ~ SR3DMX-XT30LE1-RDD3X-XXK-WDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 15595            | 17999             | 15595             |
| 55                  | 13534            | 14439             | 13534             |
| 65                  | 15815            | 18347             | 15815             |
| 75                  | 7020             | 8335              | 7020              |
| 85                  | 7573             | 8008              | 7573              |

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|           | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| <b>0</b>  | 3563.726   | 3563.726    | 3563.726    | 3563.726    | 3563.726    |
| <b>5</b>  | 3456.718   | 3504.494    | 3545.514    | 3504.494    | 3456.718    |
| <b>10</b> | 3245.561   | 3319.194    | 3372.767    | 3319.194    | 3245.561    |
| <b>15</b> | 2944.776   | 3051.293    | 3128.295    | 3051.293    | 2944.776    |
| <b>20</b> | 2538.084   | 2674.021    | 2770.311    | 2674.021    | 2538.084    |
| <b>25</b> | 1979.022   | 2161.797    | 2294.110    | 2161.797    | 1979.022    |
| <b>30</b> | 1270.372   | 1476.053    | 1618.678    | 1476.053    | 1270.372    |
| <b>35</b> | 615.528    | 768.173     | 886.560     | 768.173     | 615.528     |
| <b>40</b> | 205.965    | 303.899     | 378.146     | 303.899     | 205.965     |
| <b>45</b> | 68.671     | 74.948      | 79.254      | 74.948      | 68.671      |
| <b>50</b> | 56.897     | 59.760      | 62.233      | 59.760      | 56.897      |
| <b>55</b> | 48.342     | 51.909      | 51.572      | 51.909      | 48.342      |
| <b>60</b> | 48.694     | 48.225      | 47.337      | 48.225      | 48.694      |
| <b>65</b> | 41.620     | 46.633      | 48.285      | 46.633      | 41.620      |
| <b>70</b> | 22.084     | 28.080      | 33.800      | 28.080      | 22.084      |
| <b>75</b> | 11.315     | 11.966      | 13.434      | 11.966      | 11.315      |
| <b>80</b> | 5.361      | 8.931       | 8.642       | 8.931       | 5.361       |
| <b>85</b> | 4.110      | 3.526       | 4.346       | 3.526       | 4.110       |
| <b>90</b> | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_47 ~ SR3DMX-XT30LE1-RDD3X-XXK-WDMWGL.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1175.92 | N.A.  | 41.30  |
| 0-30    | 2137.53 | N.A.  | 75.10  |
| 0-40    | 2640.87 | N.A.  | 92.80  |
| 0-60    | 2783.88 | N.A.  | 97.80  |
| 0-80    | 2841.29 | N.A.  | 99.80  |
| 0-90    | 2845.57 | N.A.  | 100.00 |
| 10-90   | 2517.22 | N.A.  | 88.50  |
| 20-40   | 1464.95 | N.A.  | 51.50  |
| 20-50   | 1561.01 | N.A.  | 54.90  |
| 40-70   | 184.52  | N.A.  | 6.50   |
| 60-80   | 57.41   | N.A.  | 2.00   |
| 70-80   | 15.89   | N.A.  | 0.60   |
| 80-90   | 4.28    | N.A.  | 0.20   |
| 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   | 2845.57 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 328.34 |
| 10-20   | 847.58 |
| 20-30   | 961.61 |
| 30-40   | 503.35 |
| 40-50   | 96.06  |
| 50-60   | 46.94  |
| 60-70   | 41.52  |
| 70-80   | 15.89  |
| 80-90   | 4.28   |
| 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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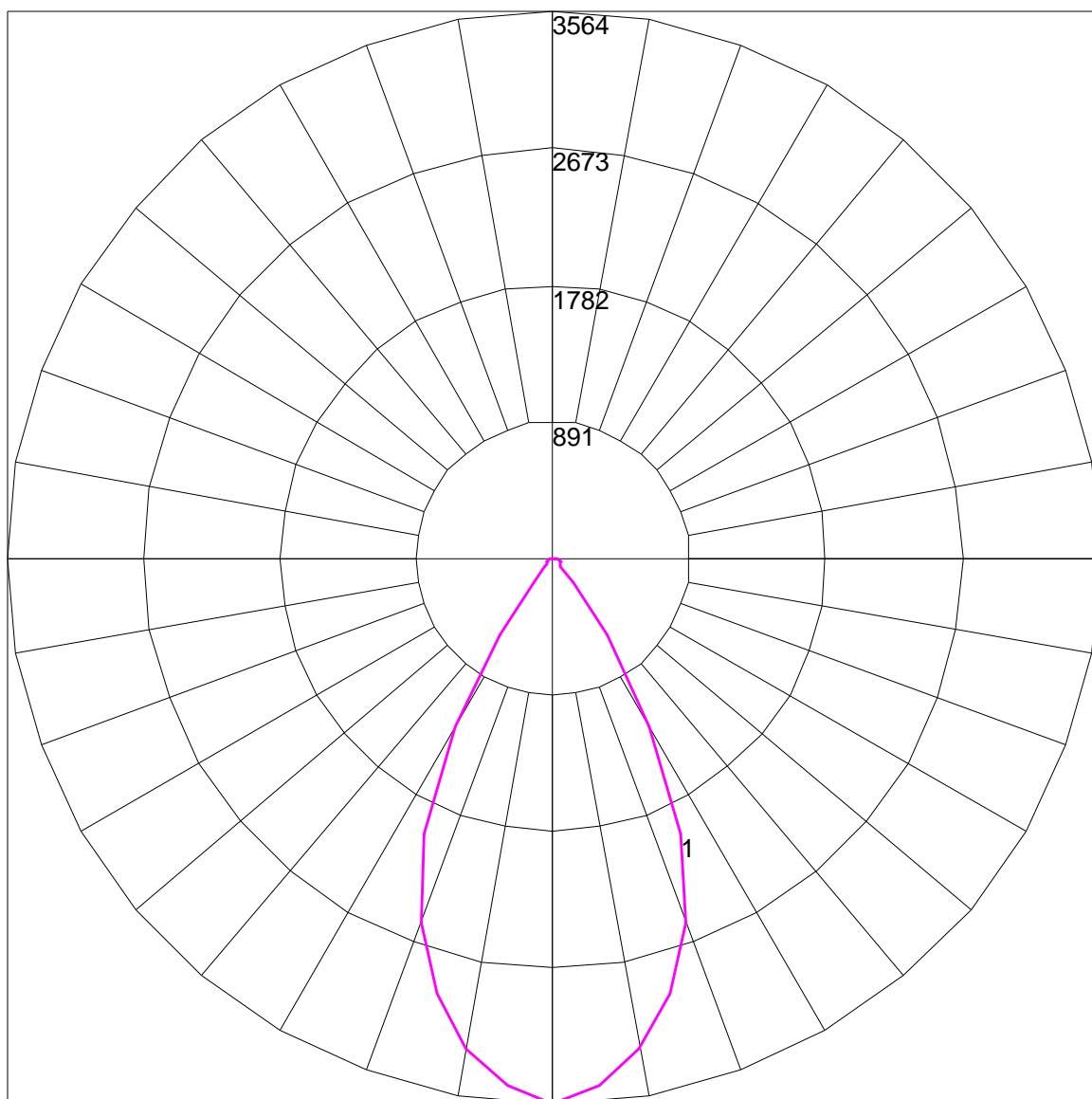
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99  | 98  | 97  | 96  | 95  | 93  |
| 2  | 108 | 103 | 99  | 95  | 106 | 101 | 98  | 94  | 98  | 95  | 92  | 95  | 93  | 90  | 92  | 90  | 88  | 87  |
| 3  | 102 | 96  | 91  | 87  | 100 | 95  | 90  | 86  | 92  | 88  | 85  | 90  | 86  | 84  | 87  | 85  | 82  | 81  |
| 4  | 97  | 90  | 84  | 80  | 96  | 89  | 84  | 80  | 87  | 82  | 79  | 85  | 81  | 78  | 83  | 80  | 77  | 76  |
| 5  | 93  | 84  | 79  | 74  | 91  | 83  | 78  | 74  | 82  | 77  | 73  | 80  | 76  | 73  | 78  | 75  | 72  | 71  |
| 6  | 88  | 79  | 74  | 69  | 87  | 79  | 73  | 69  | 77  | 72  | 69  | 76  | 71  | 68  | 74  | 71  | 68  | 66  |
| 7  | 84  | 75  | 69  | 65  | 83  | 74  | 69  | 65  | 73  | 68  | 64  | 72  | 67  | 64  | 71  | 67  | 64  | 62  |
| 8  | 80  | 71  | 65  | 61  | 79  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 60  | 67  | 63  | 60  | 59  |
| 9  | 76  | 67  | 61  | 57  | 75  | 67  | 61  | 57  | 66  | 61  | 57  | 65  | 60  | 57  | 64  | 60  | 57  | 55  |
| 10 | 73  | 64  | 58  | 54  | 72  | 63  | 58  | 54  | 62  | 57  | 54  | 62  | 57  | 54  | 61  | 57  | 54  | 52  |

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POLAR GRAPH



Maximum Candela = 3563.726 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)