

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_7 ~ 4XT-10LXXK-WDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_7\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/5/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom. 4" Diam Head/Module, Wide Beam  
[LUMCAT] 4XT-10L-xxK-WD-EX-MW-GL  
[OTHER] Matte White finish, clear glass lens  
[OTHER] 36.3 Degree Beam Angle  
[LAMP] N/A  
[LAMPCAT] N/A, 19mm LES, Min. 83CRI  
[OTHER] XT (Xicato) lumen output is same for all available CCT's at 19mm, 83CRI  
[OTHER] Luminaire Watts is approximate, per Head/Module, no thermal sensor  
[OTHER] Luminaire Watts for Surface/Suspended MULTIPLES = Module Watts x Qty  
[OTHER] Luminaire Watts for Recessed MULTIPLES = Module Watts x Qty + 2W Thermal sensor +  
[OTHER] Specific recessed units require active cooling approx. 1W per module, see Spec Sheets  
[OTHER] Photometric Data for Head/Module applicable to the following:  
[OTHER] SPECTRAC: Track Heads: STT4XT, STH4XT, STV4XT series  
[OTHER] MULTIPLES: 8" W Surface/Suspended: RCC816, RCC824, RCC848, RCC896  
[OTHER] MULTIPLES: 6" W Recessed: RC66\*\*4, RC612\*\*4, RC618\*\*4, RC624\*\*4  
[OTHER] \*\* indicates Trim variants: FT, RT, NF  
[OTHER] MULTIPLES: 12" x 12" Recessed: RC1212FT4  
[OTHER] MULTIPLES: 2' x 2' Recessed Grid Ceiling: GC24241X, GC24242X, GC24244X  
[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 812                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 89                 |
| Total Luminaire Watts           | 9.1                |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.60               |
| Spacing Criterion (90-270)      | 0.60               |
| Spacing Criterion (Diagonal)    | 0.62               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 0.33 ft (Diameter) |
| Luminous Width (90-270)         | 0.33 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 3359             | 3324              | 3099              |
| 55                  | 3158             | 3174              | 3250              |
| 65                  | 2463             | 2237              | 2259              |
| 75                  | 3001             | 2531              | 2336              |
| 85                  | 4614             | 4301              | 2977              |

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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>  | 1759.541   | 1759.541    | 1759.541    | 1759.541    | 1759.541    |
| <b>5</b>  | 1672.506   | 1679.182    | 1676.224    | 1683.088    | 1674.878    |
| <b>10</b> | 1458.480   | 1472.976    | 1468.230    | 1480.488    | 1463.130    |
| <b>15</b> | 1111.633   | 1141.069    | 1118.032    | 1148.111    | 1122.767    |
| <b>20</b> | 745.588    | 773.501     | 749.832     | 778.957     | 758.760     |
| <b>25</b> | 481.684    | 502.401     | 487.039     | 505.310     | 491.872     |
| <b>30</b> | 263.151    | 281.049     | 264.274     | 286.574     | 271.087     |
| <b>35</b> | 80.820     | 94.577      | 78.876      | 94.708      | 85.531      |
| <b>40</b> | 22.671     | 25.617      | 21.452      | 22.951      | 21.155      |
| <b>45</b> | 19.238     | 19.737      | 19.036      | 18.750      | 17.749      |
| <b>50</b> | 17.237     | 17.618      | 17.834      | 17.625      | 17.720      |
| <b>55</b> | 14.670     | 15.111      | 14.742      | 14.943      | 15.096      |
| <b>60</b> | 11.578     | 11.578      | 11.133      | 11.189      | 10.825      |
| <b>65</b> | 8.430      | 9.095       | 7.655       | 8.647       | 7.733       |
| <b>70</b> | 7.381      | 7.414       | 6.266       | 6.176       | 5.710       |
| <b>75</b> | 6.290      | 6.756       | 5.306       | 5.565       | 4.897       |
| <b>80</b> | 6.074      | 5.621       | 4.912       | 4.726       | 3.843       |
| <b>85</b> | 3.257      | 3.255       | 3.036       | 3.148       | 2.101       |
| <b>90</b> | 0.529      | 0.240       | 0.571       | 0.151       | 0.282       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 464.22 | N.A.  | 57.20  |
| 0-30    | 693.72 | N.A.  | 85.50  |
| 0-40    | 765.61 | N.A.  | 94.30  |
| 0-60    | 793.92 | N.A.  | 97.80  |
| 0-80    | 808.63 | N.A.  | 99.60  |
| 0-90    | 811.75 | N.A.  | 100.00 |
| 10-90   | 658.02 | N.A.  | 81.10  |
| 20-40   | 301.39 | N.A.  | 37.10  |
| 20-50   | 316.57 | N.A.  | 39.00  |
| 40-70   | 36.88  | N.A.  | 4.50   |
| 60-80   | 14.71  | N.A.  | 1.80   |
| 70-80   | 6.15   | N.A.  | 0.80   |
| 80-90   | 3.12   | N.A.  | 0.40   |
| 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   | 811.75 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 153.73 |
| 10-20   | 310.48 |
| 20-30   | 229.51 |
| 30-40   | 71.88  |
| 40-50   | 15.18  |
| 50-60   | 13.13  |
| 60-70   | 8.57   |
| 70-80   | 6.15   |
| 80-90   | 3.12   |
| 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   |

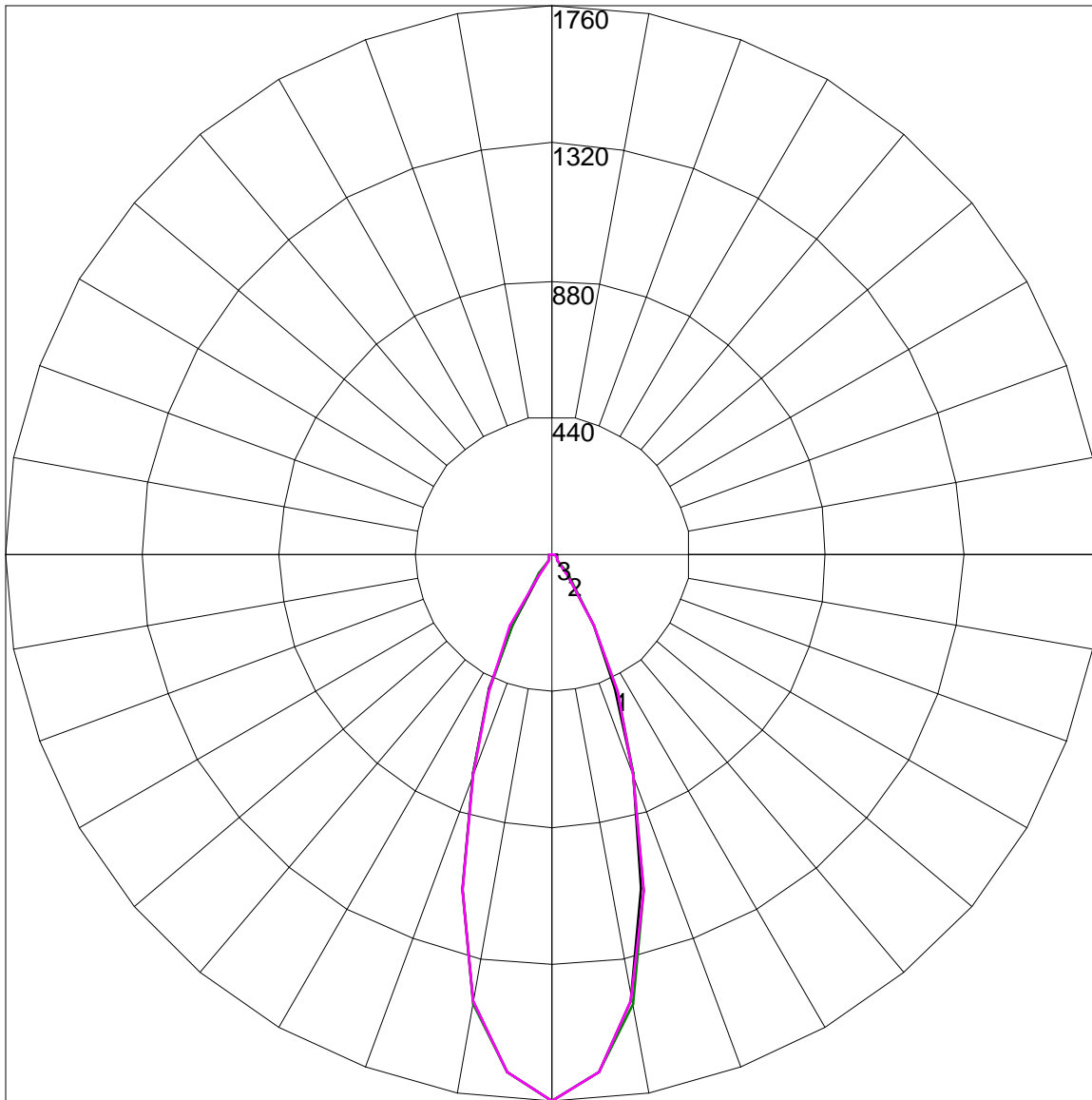
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 96  | 94  |
| 2  | 109 | 104 | 101 | 98  | 107 | 103 | 99  | 96  | 99  | 97  | 94  | 97  | 94  | 92  | 94  | 92  | 90  | 89  |
| 3  | 104 | 98  | 94  | 90  | 102 | 97  | 93  | 90  | 94  | 91  | 88  | 92  | 89  | 87  | 90  | 88  | 86  | 84  |
| 4  | 100 | 93  | 88  | 84  | 98  | 92  | 87  | 84  | 90  | 86  | 83  | 88  | 85  | 82  | 86  | 83  | 81  | 80  |
| 5  | 96  | 88  | 83  | 79  | 94  | 87  | 83  | 79  | 86  | 82  | 78  | 84  | 81  | 78  | 83  | 80  | 77  | 76  |
| 6  | 92  | 84  | 79  | 75  | 91  | 83  | 78  | 75  | 82  | 78  | 74  | 81  | 77  | 74  | 79  | 76  | 73  | 72  |
| 7  | 88  | 80  | 75  | 71  | 87  | 80  | 75  | 71  | 78  | 74  | 71  | 77  | 73  | 70  | 76  | 73  | 70  | 69  |
| 8  | 85  | 77  | 71  | 68  | 84  | 76  | 71  | 68  | 75  | 71  | 67  | 74  | 70  | 67  | 73  | 70  | 67  | 66  |
| 9  | 82  | 73  | 68  | 65  | 81  | 73  | 68  | 65  | 72  | 68  | 65  | 71  | 67  | 64  | 70  | 67  | 64  | 63  |
| 10 | 79  | 70  | 65  | 62  | 78  | 70  | 65  | 62  | 69  | 65  | 62  | 69  | 64  | 62  | 68  | 64  | 61  | 60  |

POLAR GRAPH



Maximum Candela = 1759.541 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)