

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551 ~ 4XT-10LXXK-NDEX-MWNL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] SP-00551\_M-10L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/6/2017  
 [UPDATE] 8/21/2017  
 [LUMINAIRE] Nom.4" Diam Head/Module, Narrow Beam  
 [LUMCAT] 4XT-10L-xxK-ND-EX-MW-NL  
 [OTHER] Matte White finish, no lens  
 [OTHER] 17.7 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, scaled from 30L

### CHARACTERISTICS

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 885                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 97                 |
| Total Luminaire Watts           | 9.1                |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.32               |
| Spacing Criterion (90-270)      | 0.34               |
| Spacing Criterion (Diagonal)    | 0.34               |
| 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                  | 979              | 944               | 1102              |
| 55                  | 1066             | 1004              | 961               |
| 65                  | 2324             | 2095              | 2218              |
| 75                  | 1700             | 1681              | 1902              |
| 85                  | 2734             | 3342              | 3274              |

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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>  | 4922.534   | 4922.534    | 4922.534    | 4922.534    | 4922.534    |
| <b>5</b>  | 3851.807   | 4023.422    | 4065.217    | 4204.104    | 4112.870    |
| <b>10</b> | 2052.355   | 2226.162    | 2176.190    | 2372.874    | 2288.707    |
| <b>15</b> | 910.106    | 990.703     | 943.622     | 1035.299    | 1008.700    |
| <b>20</b> | 488.471    | 513.816     | 491.505     | 522.920     | 516.194     |
| <b>25</b> | 337.184    | 349.302     | 337.140     | 349.919     | 347.981     |
| <b>30</b> | 199.388    | 214.124     | 208.665     | 220.120     | 205.693     |
| <b>35</b> | 62.731     | 73.058      | 64.589      | 75.382      | 65.153      |
| <b>40</b> | 9.155      | 10.870      | 7.398       | 10.187      | 10.727      |
| <b>45</b> | 5.609      | 5.516       | 5.404       | 6.496       | 6.308       |
| <b>50</b> | 4.554      | 4.986       | 4.348       | 5.086       | 4.625       |
| <b>55</b> | 4.952      | 5.109       | 4.665       | 4.451       | 4.464       |
| <b>60</b> | 6.366      | 6.753       | 6.047       | 5.866       | 5.989       |
| <b>65</b> | 7.955      | 7.164       | 7.172       | 7.155       | 7.591       |
| <b>70</b> | 5.709      | 6.260       | 5.699       | 6.453       | 5.911       |
| <b>75</b> | 3.563      | 4.307       | 3.524       | 4.463       | 3.987       |
| <b>80</b> | 4.355      | 4.466       | 3.595       | 4.901       | 3.778       |
| <b>85</b> | 1.930      | 2.258       | 2.359       | 1.830       | 2.311       |
| <b>90</b> | 0.654      | 0.192       | 0.423       | 0.076       | 0.687       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 646.77 | N.A.  | 73.10  |
| 0-30    | 806.54 | N.A.  | 91.20  |
| 0-40    | 861.01 | N.A.  | 97.30  |
| 0-60    | 870.61 | N.A.  | 98.40  |
| 0-80    | 882.13 | N.A.  | 99.70  |
| 0-90    | 884.55 | N.A.  | 100.00 |
| 10-90   | 551.50 | N.A.  | 62.30  |
| 20-40   | 214.25 | N.A.  | 24.20  |
| 20-50   | 219.25 | N.A.  | 24.80  |
| 40-70   | 16.27  | N.A.  | 1.80   |
| 60-80   | 11.52  | N.A.  | 1.30   |
| 70-80   | 4.85   | N.A.  | 0.50   |
| 80-90   | 2.42   | N.A.  | 0.30   |
| 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   | 884.55 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 333.05 |
| 10-20   | 313.72 |
| 20-30   | 159.77 |
| 30-40   | 54.48  |
| 40-50   | 5.00   |
| 50-60   | 4.59   |
| 60-70   | 6.67   |
| 70-80   | 4.85   |
| 80-90   | 2.42   |
| 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   |

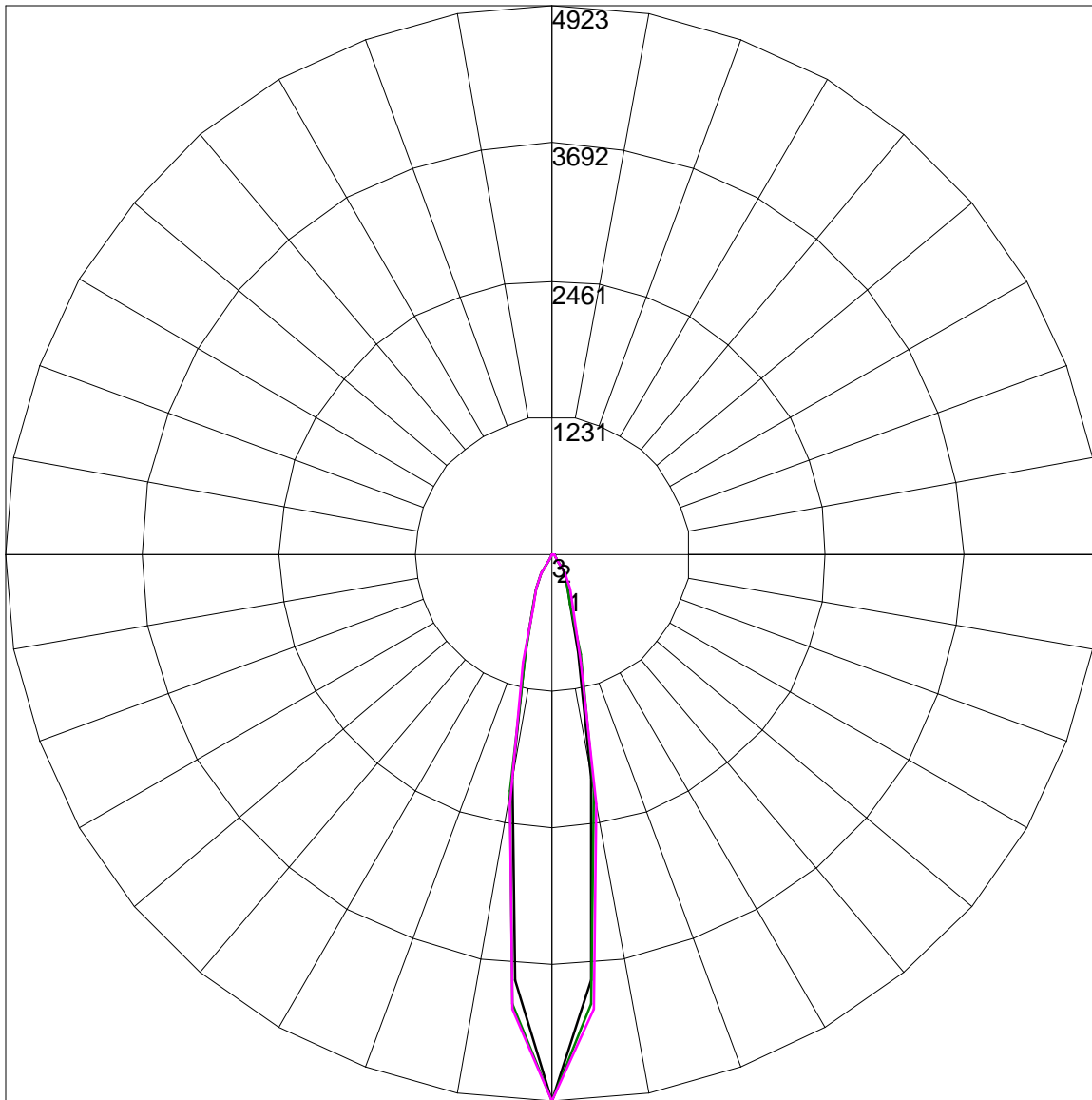
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 101 | 100 | 99  | 98  | 98  | 96  |
| 2  | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 100 | 102 | 100 | 98  | 99  | 97  | 96  | 96  | 95  | 94  | 92  |
| 3  | 107 | 102 | 98  | 95  | 105 | 101 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |
| 4  | 103 | 98  | 94  | 90  | 102 | 97  | 93  | 90  | 95  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 86  |
| 5  | 100 | 94  | 90  | 86  | 99  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 87  | 85  | 89  | 86  | 84  | 83  |
| 6  | 97  | 91  | 86  | 83  | 96  | 90  | 86  | 83  | 89  | 85  | 82  | 87  | 84  | 82  | 86  | 83  | 81  | 80  |
| 7  | 94  | 88  | 83  | 80  | 93  | 87  | 83  | 80  | 86  | 82  | 80  | 85  | 82  | 79  | 84  | 81  | 79  | 78  |
| 8  | 92  | 85  | 81  | 78  | 91  | 84  | 80  | 77  | 83  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 77  | 76  |
| 9  | 89  | 82  | 78  | 75  | 88  | 82  | 78  | 75  | 81  | 77  | 75  | 80  | 77  | 75  | 80  | 77  | 74  | 74  |
| 10 | 87  | 80  | 76  | 73  | 86  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 73  | 78  | 75  | 73  | 72  |

POLAR GRAPH



Maximum Candela = 4922.534 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)