

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP-00551\_1 ~ 4XT-20LXXK-NDEX-MWGL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00551\_1\_M-20L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/4/2017  
 [UPDATE] 8/21/2017  
 [LUMINAIRE] Nom.4" Diam Head/Module, Narrow Beam  
 [LUMCAT] 4XT-20L-xxK-ND-EX-MW-GL  
 [OTHER] Matte White finish, clear glass lens  
 [OTHER] 16 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                | 1810               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 83                 |
| Total Luminaire Watts           | 21.7               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.32               |
| Spacing Criterion (90-270)      | 0.32               |
| 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                  | 3077             | 3329              | 3178              |
| 55                  | 2699             | 3304              | 3499              |
| 65                  | 3691             | 3837              | 4081              |
| 75                  | 2947             | 3542              | 3465              |
| 85                  | 4236             | 4657              | 4356              |

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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>  | 10256.726  | 10256.726   | 10256.726   | 10256.726   | 10256.726   |
| <b>5</b>  | 8138.694   | 8305.637    | 8042.513    | 8311.067    | 7969.623    |
| <b>10</b> | 4364.921   | 4506.639    | 4276.236    | 4518.324    | 4261.873    |
| <b>15</b> | 1951.748   | 2050.258    | 1941.065    | 2027.749    | 1926.770    |
| <b>20</b> | 1048.006   | 1094.477    | 1057.062    | 1083.890    | 1046.573    |
| <b>25</b> | 714.424    | 751.556     | 729.572     | 735.893     | 718.210     |
| <b>30</b> | 422.850    | 444.757     | 422.135     | 454.079     | 423.531     |
| <b>35</b> | 139.832    | 149.301     | 139.650     | 162.979     | 138.997     |
| <b>40</b> | 28.135     | 37.199      | 33.101      | 32.079      | 28.032      |
| <b>45</b> | 17.621     | 22.035      | 19.062      | 19.628      | 18.198      |
| <b>50</b> | 13.700     | 15.034      | 14.601      | 15.914      | 16.071      |
| <b>55</b> | 12.538     | 13.893      | 15.348      | 14.646      | 16.253      |
| <b>60</b> | 13.699     | 13.771      | 16.073      | 15.404      | 16.317      |
| <b>65</b> | 12.634     | 14.011      | 13.133      | 13.040      | 13.968      |
| <b>70</b> | 8.370      | 10.037      | 9.029       | 8.448       | 9.270       |
| <b>75</b> | 6.178      | 8.051       | 7.425       | 6.419       | 7.264       |
| <b>80</b> | 6.596      | 6.991       | 6.243       | 7.318       | 7.636       |
| <b>85</b> | 2.990      | 4.082       | 3.287       | 2.781       | 3.075       |
| <b>90</b> | 0.908      | 0.394       | 0.791       | 0.454       | 0.688       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 1301.93 | N.A.  | 71.90  |
| 0-30    | 1639.13 | N.A.  | 90.60  |
| 0-40    | 1755.21 | N.A.  | 97.00  |
| 0-60    | 1785.22 | N.A.  | 98.60  |
| 0-80    | 1805.83 | N.A.  | 99.80  |
| 0-90    | 1809.67 | N.A.  | 100.00 |
| 10-90   | 1139.19 | N.A.  | 63.00  |
| 20-40   | 453.28  | N.A.  | 25.00  |
| 20-50   | 469.98  | N.A.  | 26.00  |
| 40-70   | 42.61   | N.A.  | 2.40   |
| 60-80   | 20.61   | N.A.  | 1.10   |
| 70-80   | 8.01    | N.A.  | 0.40   |
| 80-90   | 3.84    | 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   | 1809.67 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 670.48 |
| 10-20   | 631.45 |
| 20-30   | 337.19 |
| 30-40   | 116.09 |
| 40-50   | 16.70  |
| 50-60   | 13.30  |
| 60-70   | 12.60  |
| 70-80   | 8.01   |
| 80-90   | 3.84   |
| 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   |

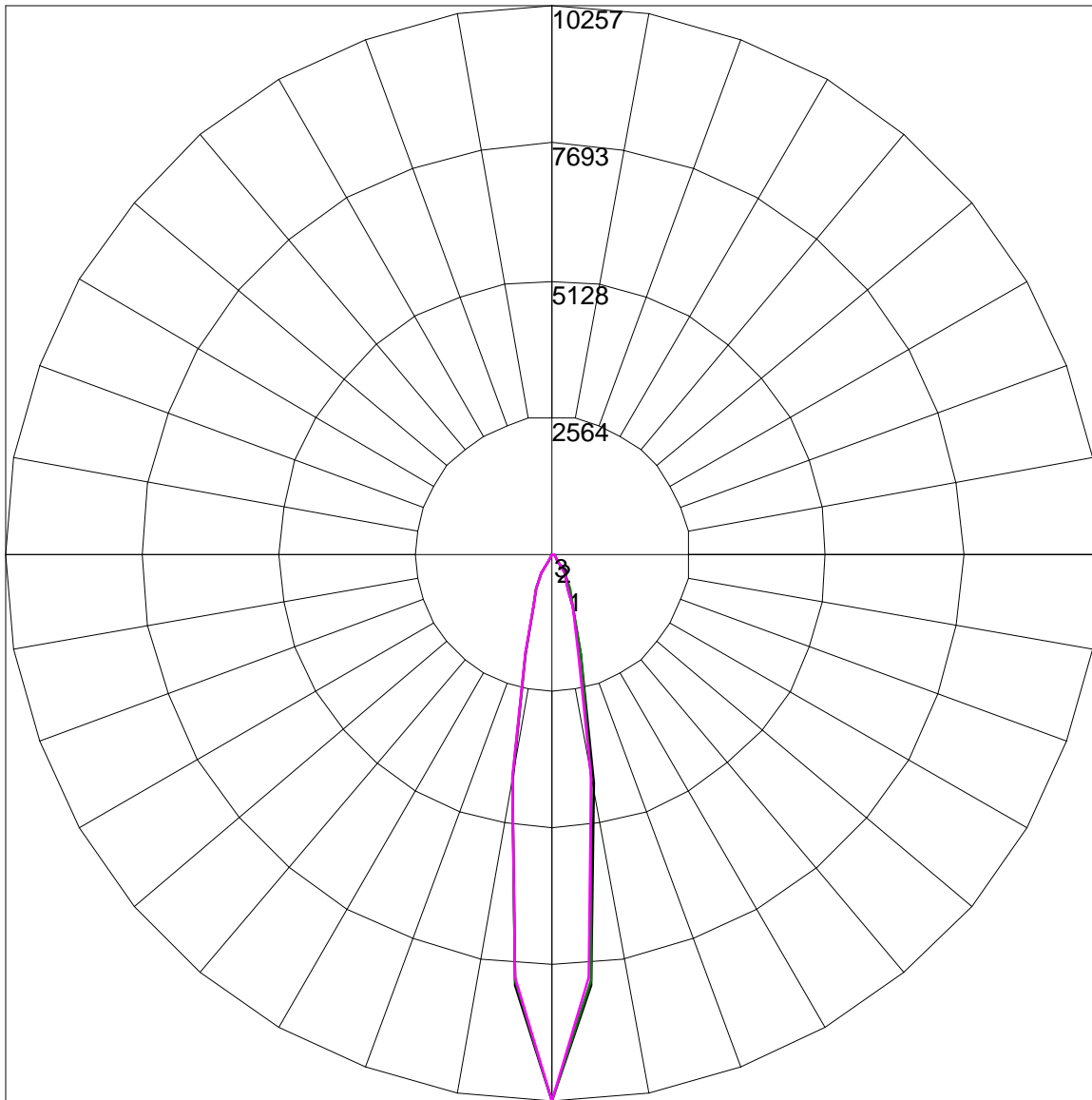
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 109 | 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 | 100 | 97  | 94  | 98  | 95  | 93  | 96  | 93  | 91  | 94  | 92  | 90  | 89  |
| 4  | 103 | 98  | 93  | 90  | 102 | 96  | 93  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 91  | 89  | 87  | 85  |
| 5  | 100 | 94  | 89  | 86  | 99  | 93  | 89  | 86  | 91  | 88  | 85  | 90  | 87  | 84  | 88  | 86  | 84  | 83  |
| 6  | 97  | 90  | 86  | 83  | 96  | 90  | 85  | 82  | 88  | 85  | 82  | 87  | 84  | 81  | 86  | 83  | 81  | 80  |
| 7  | 94  | 87  | 83  | 80  | 93  | 87  | 83  | 80  | 86  | 82  | 79  | 84  | 81  | 79  | 83  | 81  | 78  | 77  |
| 8  | 91  | 84  | 80  | 77  | 90  | 84  | 80  | 77  | 83  | 79  | 77  | 82  | 79  | 76  | 81  | 78  | 76  | 75  |
| 9  | 89  | 82  | 78  | 75  | 88  | 81  | 77  | 75  | 81  | 77  | 74  | 80  | 77  | 74  | 79  | 76  | 74  | 73  |
| 10 | 86  | 79  | 75  | 73  | 86  | 79  | 75  | 72  | 78  | 75  | 72  | 78  | 74  | 72  | 77  | 74  | 72  | 71  |

POLAR GRAPH



Maximum Candela = 10256.726 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)