

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_9 ~ 4XT-10LXXK-XWEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_9\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/5/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom. 4" Diam Head/Module, Xtra Wide Beam  
[LUMCAT] 4XT-10L-xxK-XW-EX-MW-NL  
[OTHER] Matte White finish, no lens  
[OTHER] 56 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                | 868                |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 95                 |
| Total Luminaire Watts           | 9.1                |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.90               |
| Spacing Criterion (90-270)      | 0.90               |
| Spacing Criterion (Diagonal)    | 0.84               |
| 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                  | 4332             | 4923              | 5158              |
| 55                  | 2096             | 2346              | 2249              |
| 65                  | 1887             | 1963              | 1931              |
| 75                  | 2852             | 2979              | 2994              |
| 85                  | 4509             | 4729              | 5226              |

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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>  | 1082.478   | 1082.478    | 1082.478    | 1082.478    | 1082.478    |
| <b>5</b>  | 1060.519   | 1065.305    | 1069.779    | 1071.883    | 1073.213    |
| <b>10</b> | 1011.712   | 1018.760    | 1019.489    | 1024.427    | 1023.649    |
| <b>15</b> | 944.036    | 952.934     | 949.399     | 957.305     | 951.485     |
| <b>20</b> | 843.765    | 856.688     | 846.871     | 858.048     | 847.334     |
| <b>25</b> | 686.350    | 699.974     | 687.022     | 700.145     | 687.256     |
| <b>30</b> | 442.640    | 466.854     | 447.998     | 469.569     | 449.052     |
| <b>35</b> | 170.664    | 202.089     | 194.737     | 208.222     | 196.676     |
| <b>40</b> | 58.288     | 66.981      | 66.485      | 70.235      | 69.143      |
| <b>45</b> | 24.807     | 28.764      | 28.190      | 30.881      | 29.537      |
| <b>50</b> | 13.645     | 15.446      | 14.492      | 15.884      | 15.079      |
| <b>55</b> | 9.738      | 10.790      | 10.898      | 11.186      | 10.446      |
| <b>60</b> | 8.263      | 8.453       | 7.726       | 8.703       | 8.574       |
| <b>65</b> | 6.458      | 7.048       | 6.720       | 6.234       | 6.608       |
| <b>70</b> | 5.760      | 6.286       | 5.543       | 6.736       | 5.890       |
| <b>75</b> | 5.978      | 6.737       | 6.245       | 6.452       | 6.276       |
| <b>80</b> | 6.172      | 6.426       | 6.504       | 5.884       | 6.293       |
| <b>85</b> | 3.183      | 3.223       | 3.338       | 3.942       | 3.689       |
| <b>90</b> | 0.364      | 0.352       | 0.491       | 0.268       | 0.522       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens | %Lamp | %Fixt  |
|---------|--------|-------|--------|
| 0-20    | 366.05 | N.A.  | 42.20  |
| 0-30    | 673.78 | N.A.  | 77.60  |
| 0-40    | 814.25 | N.A.  | 93.80  |
| 0-60    | 850.82 | N.A.  | 98.00  |
| 0-80    | 864.33 | N.A.  | 99.60  |
| 0-90    | 868.04 | N.A.  | 100.00 |
| 10-90   | 767.61 | N.A.  | 88.40  |
| 20-40   | 448.21 | N.A.  | 51.60  |
| 20-50   | 474.76 | N.A.  | 54.70  |
| 40-70   | 43.43  | N.A.  | 5.00   |
| 60-80   | 13.51  | N.A.  | 1.60   |
| 70-80   | 6.65   | N.A.  | 0.80   |
| 80-90   | 3.71   | 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   | 868.04 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 100.43 |
| 10-20   | 265.62 |
| 20-30   | 307.74 |
| 30-40   | 140.47 |
| 40-50   | 26.55  |
| 50-60   | 10.01  |
| 60-70   | 6.86   |
| 70-80   | 6.65   |
| 80-90   | 3.71   |
| 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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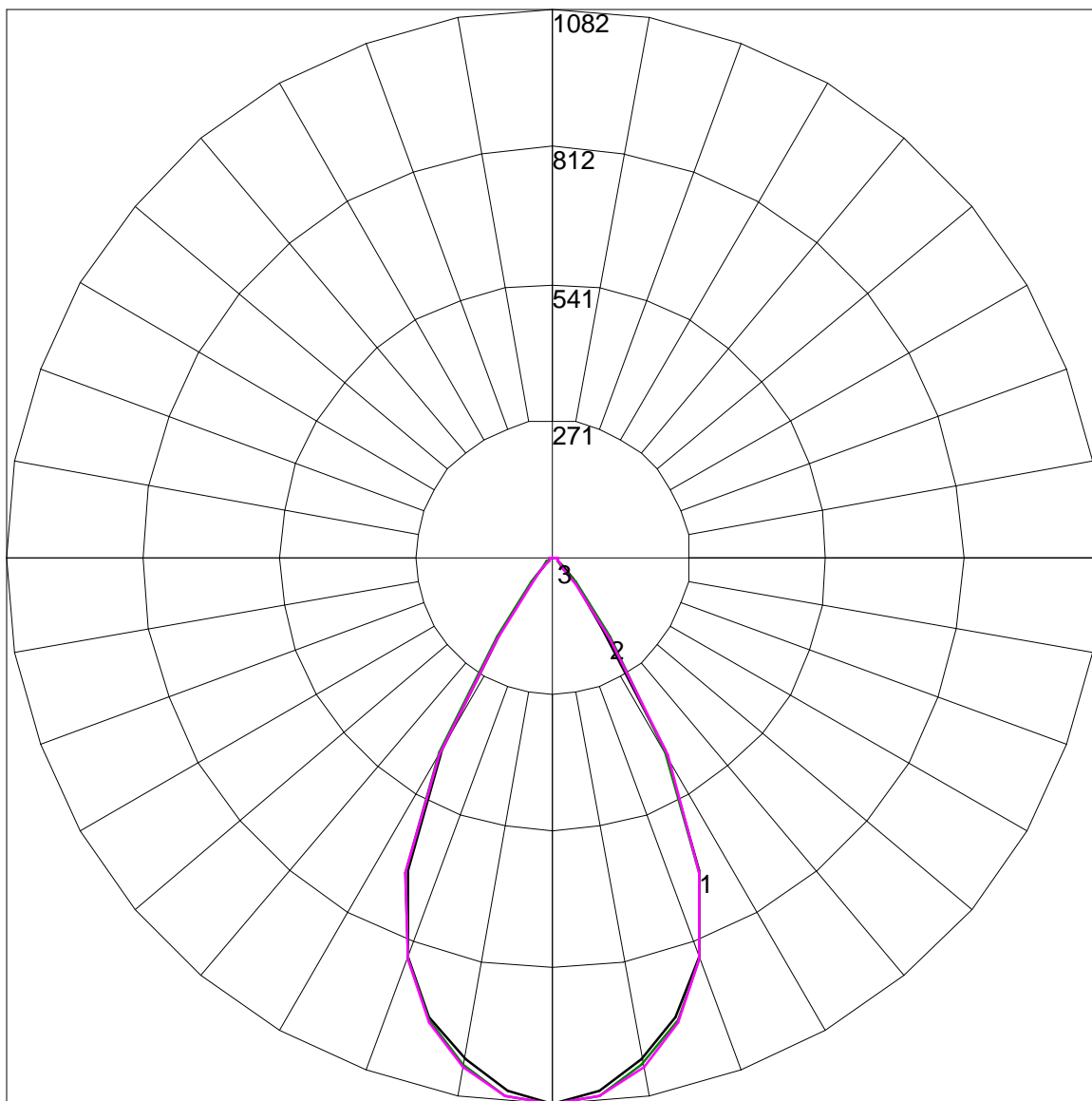
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 96  | 106 | 101 | 98  | 95  | 98  | 95  | 93  | 95  | 93  | 91  | 92  | 90  | 89  | 87  |
| 3  | 103 | 96  | 91  | 88  | 101 | 95  | 91  | 87  | 92  | 89  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 81  |
| 4  | 98  | 90  | 85  | 81  | 96  | 89  | 84  | 80  | 87  | 83  | 79  | 85  | 81  | 79  | 83  | 80  | 78  | 76  |
| 5  | 93  | 85  | 79  | 75  | 92  | 84  | 79  | 75  | 82  | 78  | 74  | 81  | 77  | 73  | 79  | 76  | 73  | 71  |
| 6  | 89  | 80  | 74  | 70  | 87  | 79  | 74  | 70  | 78  | 73  | 69  | 76  | 72  | 69  | 75  | 71  | 68  | 67  |
| 7  | 85  | 76  | 70  | 66  | 83  | 75  | 69  | 66  | 74  | 69  | 65  | 72  | 68  | 65  | 71  | 67  | 64  | 63  |
| 8  | 81  | 72  | 66  | 62  | 80  | 71  | 65  | 62  | 70  | 65  | 61  | 69  | 64  | 61  | 68  | 64  | 61  | 60  |
| 9  | 77  | 68  | 62  | 58  | 76  | 67  | 62  | 58  | 66  | 61  | 58  | 65  | 61  | 58  | 65  | 61  | 58  | 56  |
| 10 | 74  | 64  | 59  | 55  | 73  | 64  | 59  | 55  | 63  | 58  | 55  | 62  | 58  | 55  | 62  | 57  | 54  | 53  |

POLAR GRAPH



Maximum Candela = 1082.478 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)