

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_9 ~ 4XT-30LXXK-XWEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_9
[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-30L-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

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2698 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 83 |
| Total Luminaire Watts | 32.6 |
| 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 Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 13466 | 15302 | 16033 |
| 55 | 6517 | 7293 | 6990 |
| 65 | 5866 | 6103 | 6001 |
| 75 | 8866 | 9261 | 9308 |
| 85 | 14016 | 14701 | 16244 |

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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> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 3364.869 | 3364.869 | 3364.869 | 3364.869 | 3364.869 |
| 5 | 3296.610 | 3311.487 | 3325.394 | 3331.932 | 3336.067 |
| 10 | 3144.893 | 3166.801 | 3169.066 | 3184.418 | 3181.999 |
| 15 | 2934.524 | 2962.182 | 2951.195 | 2975.769 | 2957.677 |
| 20 | 2622.832 | 2663.004 | 2632.486 | 2667.231 | 2633.926 |
| 25 | 2133.509 | 2175.859 | 2135.599 | 2176.392 | 2136.327 |
| 30 | 1375.940 | 1451.210 | 1392.595 | 1459.648 | 1395.872 |
| 35 | 530.507 | 628.191 | 605.337 | 647.255 | 611.364 |
| 40 | 181.186 | 208.208 | 206.668 | 218.323 | 214.930 |
| 45 | 77.113 | 89.411 | 87.629 | 95.994 | 91.815 |
| 50 | 42.415 | 48.014 | 45.047 | 49.375 | 46.874 |
| 55 | 30.271 | 33.542 | 33.876 | 34.773 | 32.472 |
| 60 | 25.684 | 26.275 | 24.015 | 27.053 | 26.653 |
| 65 | 20.076 | 21.910 | 20.888 | 19.377 | 20.540 |
| 70 | 17.906 | 19.541 | 17.230 | 20.940 | 18.308 |
| 75 | 18.583 | 20.942 | 19.411 | 20.056 | 19.510 |
| 80 | 19.185 | 19.975 | 20.218 | 18.290 | 19.561 |
| 85 | 9.893 | 10.019 | 10.377 | 12.253 | 11.466 |
| 90 | 1.132 | 1.093 | 1.525 | 0.833 | 1.622 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1137.85 | N.A. | 42.20 |
| 0-30 | 2094.45 | N.A. | 77.60 |
| 0-40 | 2531.09 | N.A. | 93.80 |
| 0-60 | 2644.76 | N.A. | 98.00 |
| 0-80 | 2686.75 | N.A. | 99.60 |
| 0-90 | 2698.28 | N.A. | 100.00 |
| 10-90 | 2386.1 | N.A. | 88.40 |
| 20-40 | 1393.24 | N.A. | 51.60 |
| 20-50 | 1475.78 | N.A. | 54.70 |
| 40-70 | 134.99 | N.A. | 5.00 |
| 60-80 | 41.99 | N.A. | 1.60 |
| 70-80 | 20.67 | N.A. | 0.80 |
| 80-90 | 11.53 | 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 | 2698.28 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 312.18 |
| 10-20 | 825.67 |
| 20-30 | 956.60 |
| 30-40 | 436.64 |
| 40-50 | 82.54 |
| 50-60 | 31.13 |
| 60-70 | 21.32 |
| 70-80 | 20.67 |
| 80-90 | 11.53 |
| 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 |

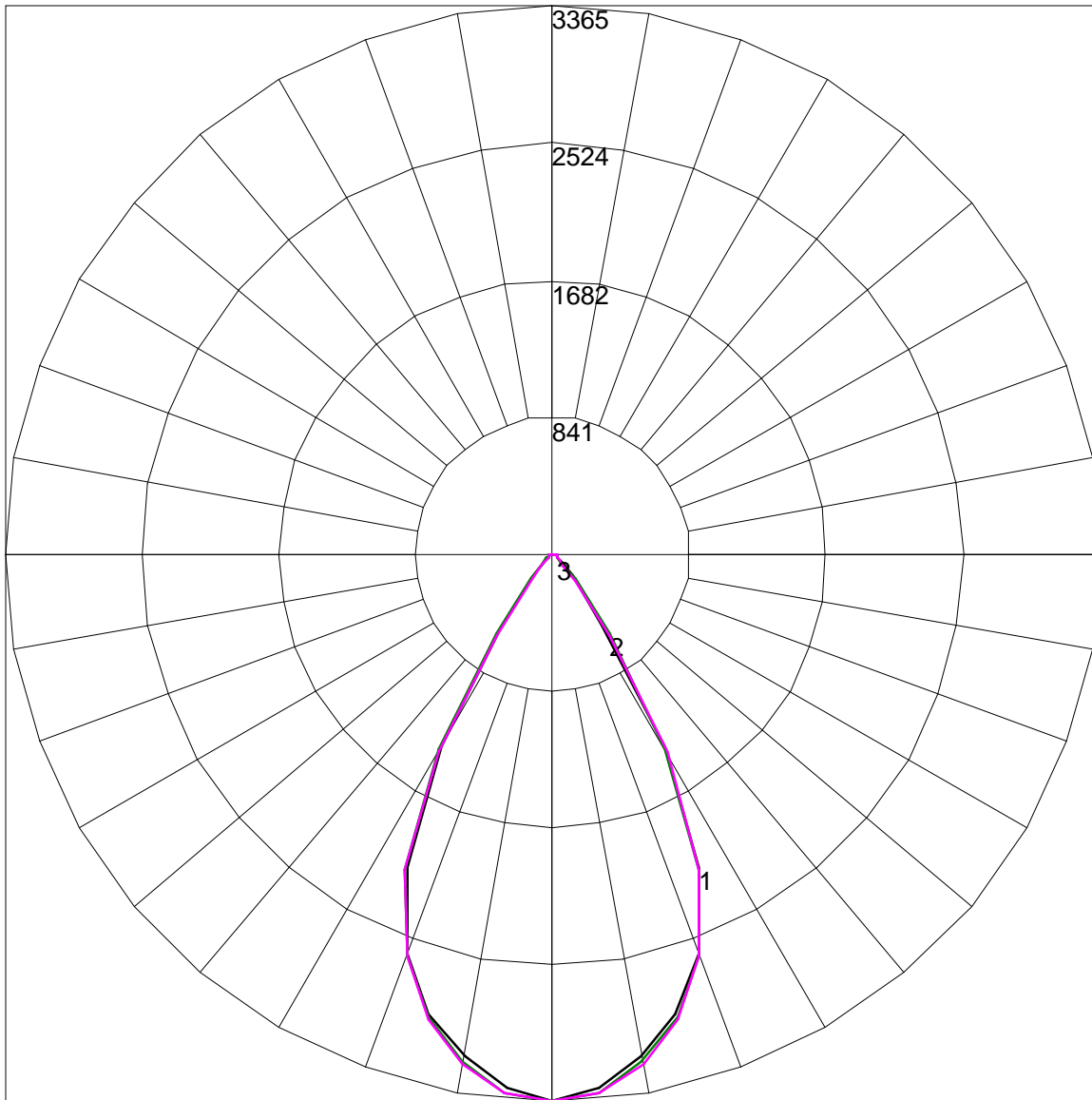
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 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 | 73 | 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 = 3364.869 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)