

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00596_2 ~ 3XT-20LXXK-XNEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00596_2
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 7/26/2017
[UPDATE] 8/24/2017
[LUMCAT] 3XT-20L-xxK-XN-EX-MW-SO
[LUMINAIRE] Nom. 3" Diam Head/Module
[OTHER] Xtra Narrow Beam / Solite Lens
[OTHER] 17.4 Degree Beam Angle
[LAMP] N/A
[LAMPCAT] N/A, 9mm LES, Min. 83CRI
[OTHER] XT (Xicato) lumen output is same for all available CCT's at 9mm, 83CRI
[OTHER] Luminaire Watts is approximate, per Head/Module, no thermal sensor or fan
[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: STT3XT, STC3XT, SDT3XT series
[OTHER] MULTIPLES: 6" W Surface/Suspended: RCC66, RCC612, RCC618, RCC624
[OTHER] MULTIPLES: 8" W Recessed Slot: RC896, RC8120, RC8144, RC8168, RC8192
[OTHER] MULTIPLES: 6" W Recessed: RC66**3, RC612**3, RC618**3, RC624**3
[OTHER] ** indicates Trim variants: FT, RT, NF
[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 1434 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 40 |
| Total Luminaire Watts | 35.5 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.30 |
| Spacing Criterion (90-270) | 0.32 |
| Spacing Criterion (Diagonal) | 0.34 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.28 ft (Diameter) |
| Luminous Width (90-270) | 0.28 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 | 7221 | 7569 | 6907 |
| 55 | 1546 | 1466 | 1868 |
| 65 | 1130 | 1317 | 1109 |
| 75 | 1440 | 1149 | 1015 |
| 85 | 3897 | 3193 | 3207 |

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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 | 8778.120 | 8778.120 | 8778.120 | 8778.120 | 8778.120 |
| 5 | 6823.428 | 6619.168 | 6914.690 | 6635.189 | 6969.326 |
| 10 | 3543.025 | 3402.020 | 3593.060 | 3395.980 | 3744.656 |
| 15 | 1522.321 | 1488.691 | 1550.609 | 1451.625 | 1681.047 |
| 20 | 770.675 | 768.711 | 786.311 | 753.835 | 827.093 |
| 25 | 529.358 | 531.686 | 532.334 | 511.320 | 527.177 |
| 30 | 338.736 | 339.587 | 346.599 | 326.200 | 328.682 |
| 35 | 162.696 | 146.092 | 177.108 | 155.347 | 162.554 |
| 40 | 66.486 | 58.287 | 75.540 | 63.824 | 64.573 |
| 45 | 28.201 | 27.584 | 29.559 | 24.042 | 26.976 |
| 50 | 11.015 | 10.209 | 9.557 | 10.445 | 11.689 |
| 55 | 4.898 | 6.325 | 4.643 | 4.446 | 5.917 |
| 60 | 3.283 | 4.900 | 4.645 | 3.411 | 3.608 |
| 65 | 2.637 | 2.901 | 3.075 | 2.672 | 2.588 |
| 70 | 2.058 | 2.025 | 2.258 | 1.903 | 2.097 |
| 75 | 2.058 | 1.105 | 1.643 | 1.790 | 1.451 |
| 80 | 1.551 | 1.325 | 1.401 | 1.576 | 1.777 |
| 85 | 1.876 | 0.998 | 1.537 | 1.303 | 1.544 |
| 90 | 0.000 | 0.000 | 1.257 | 0.000 | 1.042 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1041.45 | N.A. | 72.60 |
| 0-30 | 1287.23 | N.A. | 89.70 |
| 0-40 | 1398.11 | N.A. | 97.50 |
| 0-60 | 1428.47 | N.A. | 99.60 |
| 0-80 | 1433.16 | N.A. | 99.90 |
| 0-90 | 1434.44 | N.A. | 100.00 |
| 10-90 | 881.04 | N.A. | 61.40 |
| 20-40 | 356.67 | N.A. | 24.90 |
| 20-50 | 381.48 | N.A. | 26.60 |
| 40-70 | 33.27 | N.A. | 2.30 |
| 60-80 | 4.69 | N.A. | 0.30 |
| 70-80 | 1.77 | N.A. | 0.10 |
| 80-90 | 1.28 | N.A. | 0.10 |
| 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 | 1434.44 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 553.40 |
| 10-20 | 488.05 |
| 20-30 | 245.78 |
| 30-40 | 110.88 |
| 40-50 | 24.81 |
| 50-60 | 5.54 |
| 60-70 | 2.92 |
| 70-80 | 1.77 |
| 80-90 | 1.28 |
| 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 |

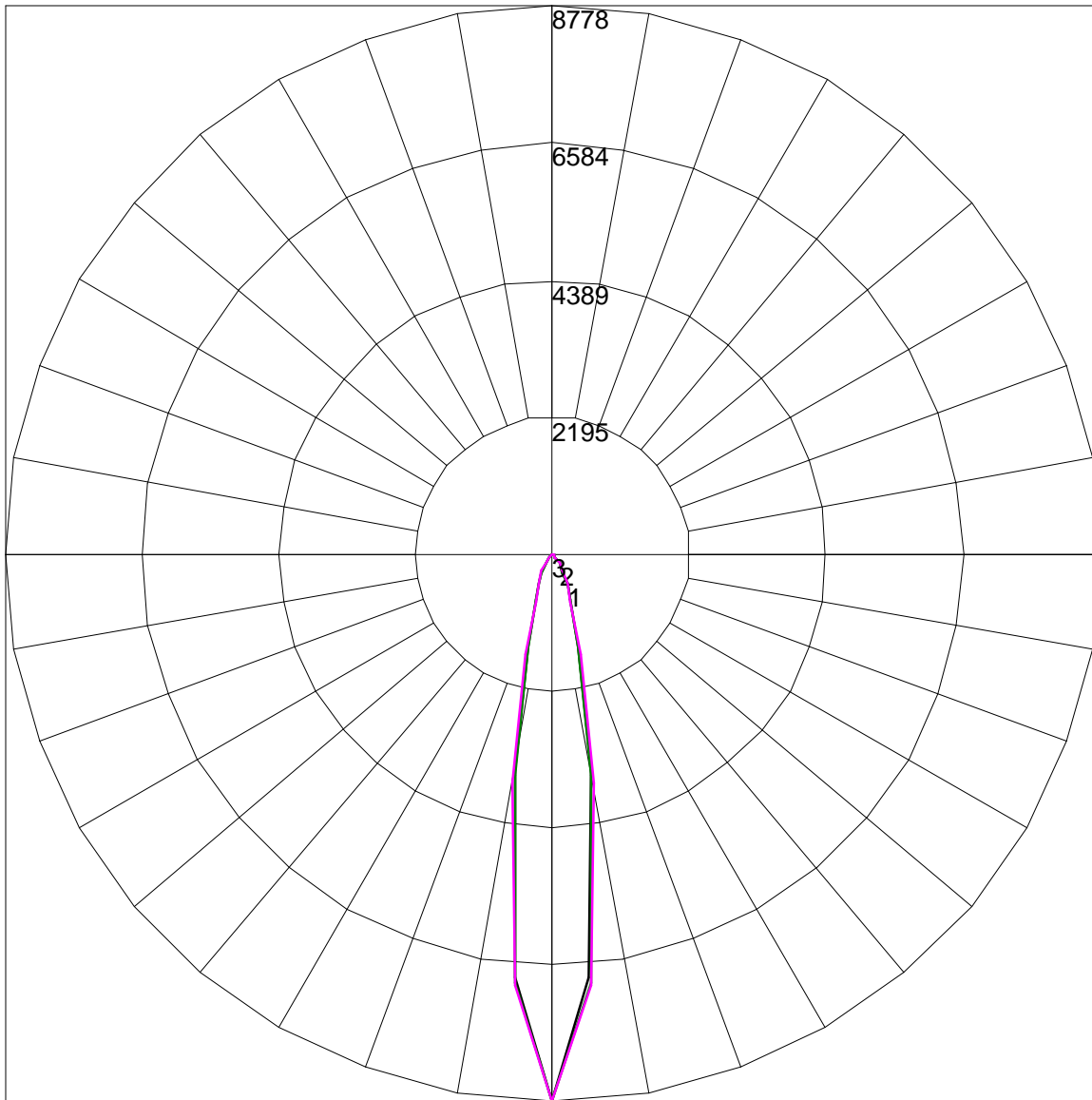
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 113 | 111 | 109 | 113 | 111 | 109 | 107 | 107 | 105 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 96 |
| 2 | 111 | 107 | 104 | 101 | 109 | 106 | 103 | 100 | 102 | 100 | 98 | 100 | 98 | 96 | 97 | 95 | 94 | 93 |
| 3 | 107 | 102 | 99 | 96 | 105 | 101 | 98 | 95 | 99 | 96 | 93 | 96 | 94 | 92 | 94 | 92 | 91 | 89 |
| 4 | 104 | 98 | 94 | 91 | 102 | 97 | 93 | 90 | 95 | 92 | 89 | 93 | 91 | 88 | 91 | 89 | 87 | 86 |
| 5 | 100 | 94 | 90 | 87 | 99 | 93 | 90 | 87 | 92 | 88 | 86 | 90 | 87 | 85 | 89 | 86 | 84 | 83 |
| 6 | 97 | 91 | 87 | 84 | 96 | 90 | 86 | 83 | 89 | 85 | 83 | 88 | 85 | 82 | 86 | 84 | 82 | 81 |
| 7 | 95 | 88 | 84 | 81 | 93 | 87 | 83 | 80 | 86 | 83 | 80 | 85 | 82 | 80 | 84 | 81 | 79 | 78 |
| 8 | 92 | 85 | 81 | 78 | 91 | 85 | 81 | 78 | 84 | 80 | 77 | 83 | 79 | 77 | 82 | 79 | 77 | 76 |
| 9 | 89 | 82 | 78 | 75 | 88 | 82 | 78 | 75 | 81 | 78 | 75 | 81 | 77 | 75 | 80 | 77 | 75 | 74 |
| 10 | 87 | 80 | 76 | 73 | 86 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 73 | 78 | 75 | 73 | 72 |

POLAR GRAPH



Maximum Candela = 8778.12 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)