

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_9 ~ C0812YKXT-20LXXK-WDEX-TSG-GL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00652_9_M-20L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/30/2018

[LUMCAT] C0812YKXT-20L-xxK-WD-EX-TSG-GL

[LUMINAIRE] Nom.8" Diam. x 12" H Adjustable Yoke LED Cylinder Downlight

[OTHER] Upper, Internal Reflector, Wide Beam

[OTHER] Lower Trim, Semi-Diffuse, Clear Anodized Aluminum

[OTHER] Frosted Glass Lens, Regressed in Lower Trim

[OTHER] 43.6 Degree Beam Angle

[LAMPCAT] N/A, 19mm LES

[LAMP] N/A, 83 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] LEDXT lumen output is the same for all available CCT's

[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 | 1607 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 74 |
| Total Luminaire Watts | 21.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.68 |
| Spacing Criterion (90-270) | 0.68 |
| Spacing Criterion (Diagonal) | 0.76 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.68 ft (Diameter) |
| Luminous Width (90-270) | 0.68 ft (Diameter) |
| Luminous Height | 0.00 ft |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_9 ~ C0812YKXT-20LXXK-WDEX-TSG-GL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1613 | 1639 | 1469 |
| 55 | 249 | 196 | 170 |
| 65 | 81 | 72 | 65 |
| 75 | 74 | 73 | 89 |
| 85 | 257 | 249 | 462 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_9 ~ C0812YKXT-20LXXK-WDEX-TSG-GL.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|-------------------|--------------------|--------------------|--------------------|--------------------|
| 0 | 2567.671 | 2567.671 | 2567.671 | 2567.671 | 2567.671 |
| 5 | 2477.415 | 2503.058 | 2491.163 | 2483.323 | 2466.102 |
| 10 | 2226.416 | 2278.077 | 2258.058 | 2244.447 | 2213.085 |
| 15 | 1834.329 | 1905.145 | 1877.673 | 1866.748 | 1828.206 |
| 20 | 1404.666 | 1467.662 | 1440.709 | 1438.261 | 1403.514 |
| 25 | 1066.137 | 1107.445 | 1086.366 | 1086.912 | 1063.266 |
| 30 | 781.684 | 824.075 | 796.833 | 795.143 | 773.133 |
| 35 | 464.094 | 510.898 | 481.487 | 475.256 | 440.847 |
| 40 | 169.609 | 192.481 | 177.244 | 165.919 | 155.709 |
| 45 | 37.942 | 48.890 | 38.574 | 39.363 | 34.566 |
| 50 | 14.582 | 14.497 | 13.779 | 13.651 | 13.509 |
| 55 | 4.758 | 4.052 | 3.740 | 3.706 | 3.239 |
| 60 | 1.731 | 1.182 | 1.442 | 1.129 | 1.219 |
| 65 | 1.138 | 1.145 | 1.012 | 0.750 | 0.913 |
| 70 | 0.837 | 1.053 | 1.254 | 1.176 | 0.889 |
| 75 | 0.636 | 1.141 | 0.632 | 0.651 | 0.764 |
| 80 | 0.876 | 0.757 | 1.007 | 0.863 | 1.095 |
| 85 | 0.745 | 0.807 | 0.723 | 1.247 | 1.341 |
| 90 | 1.023 | 0.897 | 0.930 | 0.945 | 1.263 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_9 ~ C0812YKXT-20LXXK-WDEX-TSG-GL.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 746.93 | N.A. | 46.50 |
| 0-30 | 1250.17 | N.A. | 77.80 |
| 0-40 | 1547.64 | N.A. | 96.30 |
| 0-60 | 1603.66 | N.A. | 99.80 |
| 0-80 | 1605.68 | N.A. | 99.90 |
| 0-90 | 1606.71 | N.A. | 100.00 |
| 10-90 | 1376.81 | N.A. | 85.70 |
| 20-40 | 800.71 | N.A. | 49.80 |
| 20-50 | 851.64 | N.A. | 53.00 |
| 40-70 | 57.10 | N.A. | 3.60 |
| 60-80 | 2.02 | N.A. | 0.10 |
| 70-80 | 0.94 | N.A. | 0.10 |
| 80-90 | 1.03 | 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 | 1606.71 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 229.90 |
| 10-20 | 517.03 |
| 20-30 | 503.24 |
| 30-40 | 297.47 |
| 40-50 | 50.94 |
| 50-60 | 5.08 |
| 60-70 | 1.08 |
| 70-80 | 0.94 |
| 80-90 | 1.03 |
| 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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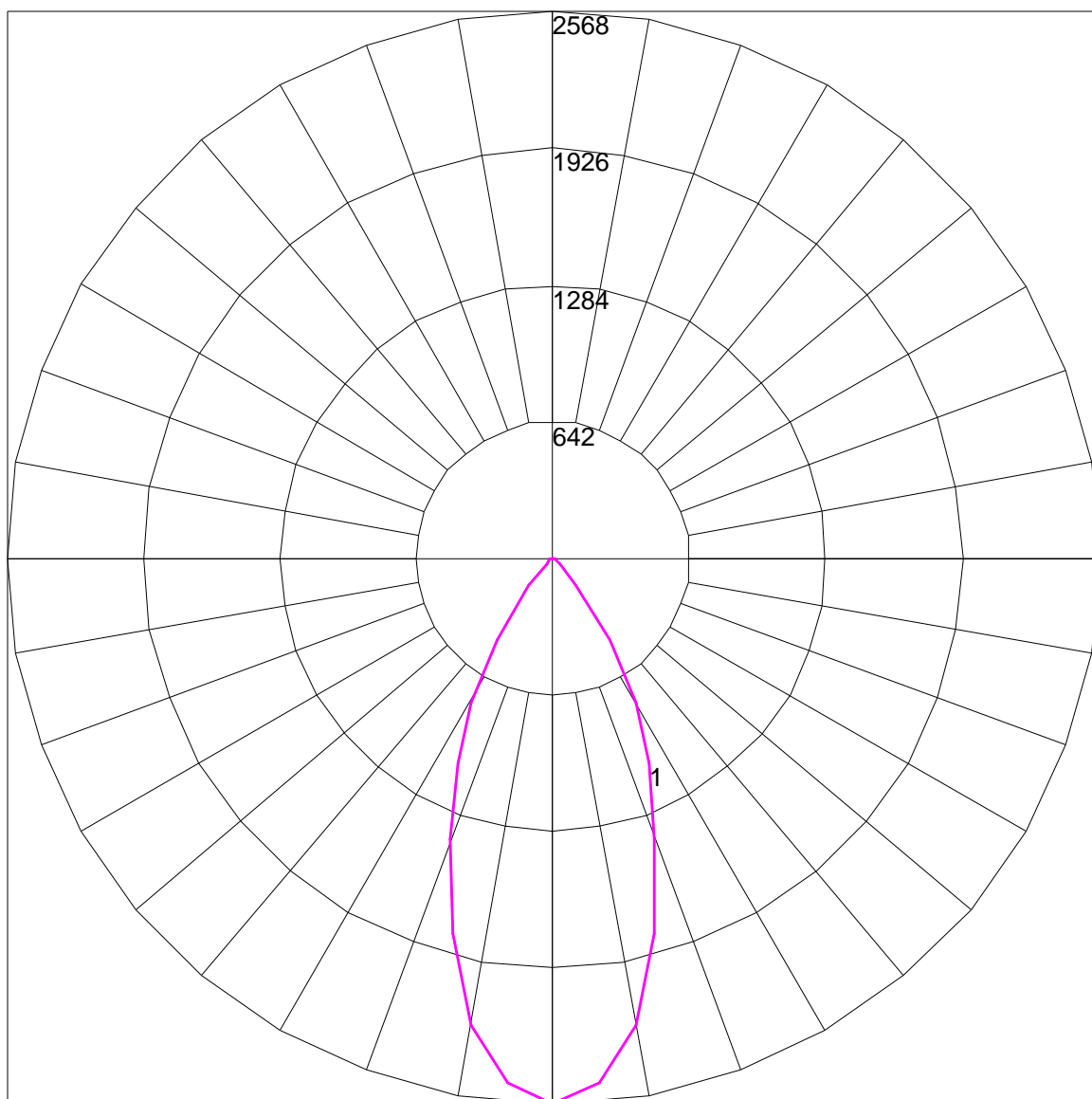
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 |
| 2 | 109 | 104 | 100 | 97 | 107 | 102 | 99 | 96 | 99 | 96 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 89 | 94 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 81 | 87 | 83 | 81 | 85 | 82 | 80 | 78 |
| 5 | 94 | 87 | 81 | 77 | 93 | 86 | 81 | 77 | 84 | 80 | 76 | 82 | 79 | 76 | 81 | 78 | 75 | 74 |
| 6 | 90 | 82 | 76 | 72 | 89 | 81 | 76 | 72 | 80 | 75 | 72 | 78 | 74 | 71 | 77 | 74 | 71 | 69 |
| 7 | 86 | 78 | 72 | 68 | 85 | 77 | 72 | 68 | 76 | 71 | 68 | 75 | 70 | 67 | 73 | 70 | 67 | 66 |
| 8 | 82 | 74 | 68 | 64 | 81 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 |
| 9 | 79 | 70 | 64 | 61 | 78 | 69 | 64 | 61 | 68 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 59 |
| 10 | 76 | 66 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 56 |

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POLAR GRAPH



Maximum Candela = 2567.671 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)