

IES INDOOR REPORT
PHOTOMETRIC FILENAME : SP-00652_9 ~ C0812YKXT-13LXXK-WDEX-TSG-GL.IES
DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00652_9_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUE DATE] 6/29/2017
 [UPDATE] 3/30/2018
 [LUMCAT] C0812YKXT-13L-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 | 1044 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 80 |
| Total Luminaire Watts | 13 |
| 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-13LXXK-WDEX-TSG-GL.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 1048 | 1065 | 955 |
| 55 | 162 | 127 | 110 |
| 65 | 53 | 47 | 42 |
| 75 | 48 | 48 | 58 |
| 85 | 167 | 162 | 300 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_9 ~ C0812YKXT-13LXXK-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 | 1668.774 | 1668.774 | 1668.774 | 1668.774 | 1668.774 |
| 5 | 1610.115 | 1626.781 | 1619.051 | 1613.955 | 1602.763 |
| 10 | 1446.987 | 1480.562 | 1467.552 | 1458.705 | 1438.323 |
| 15 | 1192.163 | 1238.187 | 1220.333 | 1213.232 | 1188.183 |
| 20 | 912.917 | 953.859 | 936.342 | 934.751 | 912.168 |
| 25 | 692.901 | 719.748 | 706.048 | 706.403 | 691.035 |
| 30 | 508.030 | 535.581 | 517.875 | 516.777 | 502.472 |
| 35 | 301.623 | 332.041 | 312.927 | 308.877 | 286.514 |
| 40 | 110.232 | 125.097 | 115.194 | 107.834 | 101.198 |
| 45 | 24.659 | 31.774 | 25.070 | 25.583 | 22.465 |
| 50 | 9.477 | 9.422 | 8.955 | 8.872 | 8.780 |
| 55 | 3.092 | 2.634 | 2.431 | 2.409 | 2.105 |
| 60 | 1.125 | 0.768 | 0.937 | 0.734 | 0.793 |
| 65 | 0.740 | 0.744 | 0.658 | 0.487 | 0.593 |
| 70 | 0.544 | 0.684 | 0.815 | 0.764 | 0.578 |
| 75 | 0.413 | 0.741 | 0.411 | 0.423 | 0.497 |
| 80 | 0.569 | 0.492 | 0.654 | 0.561 | 0.712 |
| 85 | 0.484 | 0.525 | 0.470 | 0.810 | 0.871 |
| 90 | 0.665 | 0.583 | 0.604 | 0.614 | 0.821 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_9 ~ C0812YKXT-13LXXK-WDEX-TSG-GL.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 485.44 | N.A. | 46.50 |
| 0-30 | 812.51 | N.A. | 77.80 |
| 0-40 | 1005.84 | N.A. | 96.30 |
| 0-60 | 1042.25 | N.A. | 99.80 |
| 0-80 | 1043.56 | N.A. | 99.90 |
| 0-90 | 1044.23 | N.A. | 100.00 |
| 10-90 | 894.81 | N.A. | 85.70 |
| 20-40 | 520.39 | N.A. | 49.80 |
| 20-50 | 553.50 | N.A. | 53.00 |
| 40-70 | 37.11 | N.A. | 3.60 |
| 60-80 | 1.31 | N.A. | 0.10 |
| 70-80 | 0.61 | N.A. | 0.10 |
| 80-90 | 0.67 | 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 | 1044.23 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 149.42 |
| 10-20 | 336.03 |
| 20-30 | 327.06 |
| 30-40 | 193.33 |
| 40-50 | 33.11 |
| 50-60 | 3.30 |
| 60-70 | 0.70 |
| 70-80 | 0.61 |
| 80-90 | 0.67 |
| 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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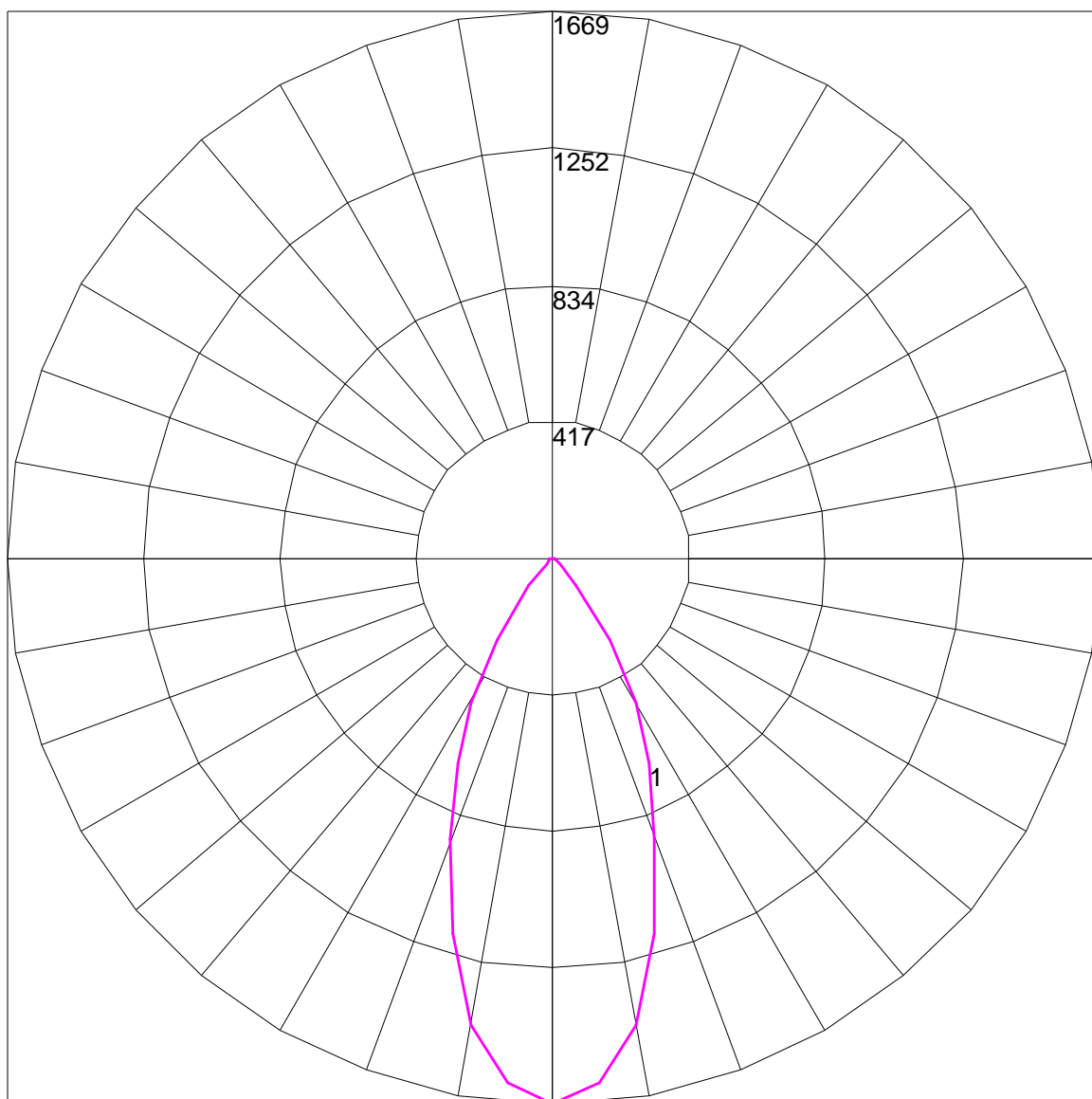
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 103 | 99 | 96 | 99 | 97 | 94 | 96 | 94 | 92 | 94 | 92 | 90 | 89 |
| 3 | 104 | 98 | 93 | 90 | 102 | 96 | 92 | 89 | 94 | 90 | 87 | 91 | 89 | 86 | 89 | 87 | 85 | 83 |
| 4 | 99 | 92 | 87 | 83 | 97 | 91 | 86 | 82 | 89 | 85 | 82 | 87 | 83 | 81 | 85 | 82 | 80 | 78 |
| 5 | 95 | 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 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 59 |
| 10 | 76 | 67 | 61 | 58 | 75 | 66 | 61 | 57 | 65 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 57 | 56 |

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POLAR GRAPH



Maximum Candela = 1668.774 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)