

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_7 ~ C0812YKXT-10LXXK-NDEX-TSG-SO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00652_7_M-10L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/29/2017

[UPDATE] 3/30/2018

[LUMCAT] C0812YKXT-10L-xxK-ND-EX-TSG-SO

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

[OTHER] Upper, Internal Reflector, Narrow Beam

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

[OTHER] Solite Lens, Regressed in Lower Trim

[OTHER] 23.1 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 | 869 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 96 |
| Total Luminaire Watts | 9.1 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.40 |
| Spacing Criterion (90-270) | 0.38 |
| Spacing Criterion (Diagonal) | 0.44 |
| 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_7 ~ C0812YKXT-10LXXK-NDEX-TSG-SO.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 615 | 710 | 507 |
| 55 | 35 | 40 | 45 |
| 65 | 23 | 20 | 47 |
| 75 | 44 | 60 | 54 |
| 85 | 136 | 259 | 165 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_7 ~ C0812YKXT-10LXXK-NDEX-TSG-SO.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 3015.166 | 3015.166 | 3015.166 | 3015.166 | 3015.166 |
| 5 | 2593.023 | 2672.423 | 2653.155 | 2657.363 | 2527.976 |
| 10 | 1733.348 | 1838.460 | 1809.890 | 1835.680 | 1675.789 |
| 15 | 1009.050 | 1081.200 | 1053.249 | 1076.657 | 969.669 |
| 20 | 602.949 | 638.314 | 617.727 | 631.881 | 578.043 |
| 25 | 406.238 | 426.586 | 413.685 | 422.277 | 392.055 |
| 30 | 285.560 | 301.714 | 293.393 | 300.692 | 278.421 |
| 35 | 176.929 | 190.728 | 184.029 | 190.593 | 171.752 |
| 40 | 73.474 | 82.906 | 78.695 | 84.430 | 69.739 |
| 45 | 14.479 | 17.599 | 16.701 | 17.729 | 11.920 |
| 50 | 1.336 | 1.661 | 1.951 | 2.160 | 1.509 |
| 55 | 0.661 | 0.803 | 0.768 | 0.847 | 0.850 |
| 60 | 0.508 | 0.431 | 0.518 | 0.316 | 0.548 |
| 65 | 0.327 | 0.376 | 0.285 | 0.580 | 0.661 |
| 70 | 0.415 | 0.431 | 0.439 | 0.657 | 0.227 |
| 75 | 0.375 | 0.279 | 0.515 | 0.534 | 0.469 |
| 80 | 0.550 | 0.529 | 0.366 | 0.558 | 0.381 |
| 85 | 0.395 | 0.475 | 0.751 | 0.775 | 0.479 |
| 90 | 0.301 | 0.130 | 0.674 | 0.162 | 0.560 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00652_7 ~ C0812YKXT-10LXXK-NDEX-TSG-SO.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 532.65 | N.A. | 61.30 |
| 0-30 | 731.04 | N.A. | 84.10 |
| 0-40 | 845.73 | N.A. | 97.30 |
| 0-60 | 867.96 | N.A. | 99.80 |
| 0-80 | 868.88 | N.A. | 99.90 |
| 0-90 | 869.44 | N.A. | 100.00 |
| 10-90 | 643.30 | N.A. | 74.00 |
| 20-40 | 313.08 | N.A. | 36.00 |
| 20-50 | 334.46 | N.A. | 38.50 |
| 40-70 | 22.67 | N.A. | 2.60 |
| 60-80 | 0.92 | N.A. | 0.10 |
| 70-80 | 0.48 | N.A. | 0.10 |
| 80-90 | 0.56 | 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 | 869.44 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 226.14 |
| 10-20 | 306.51 |
| 20-30 | 198.39 |
| 30-40 | 114.69 |
| 40-50 | 21.38 |
| 50-60 | 0.85 |
| 60-70 | 0.44 |
| 70-80 | 0.48 |
| 80-90 | 0.56 |
| 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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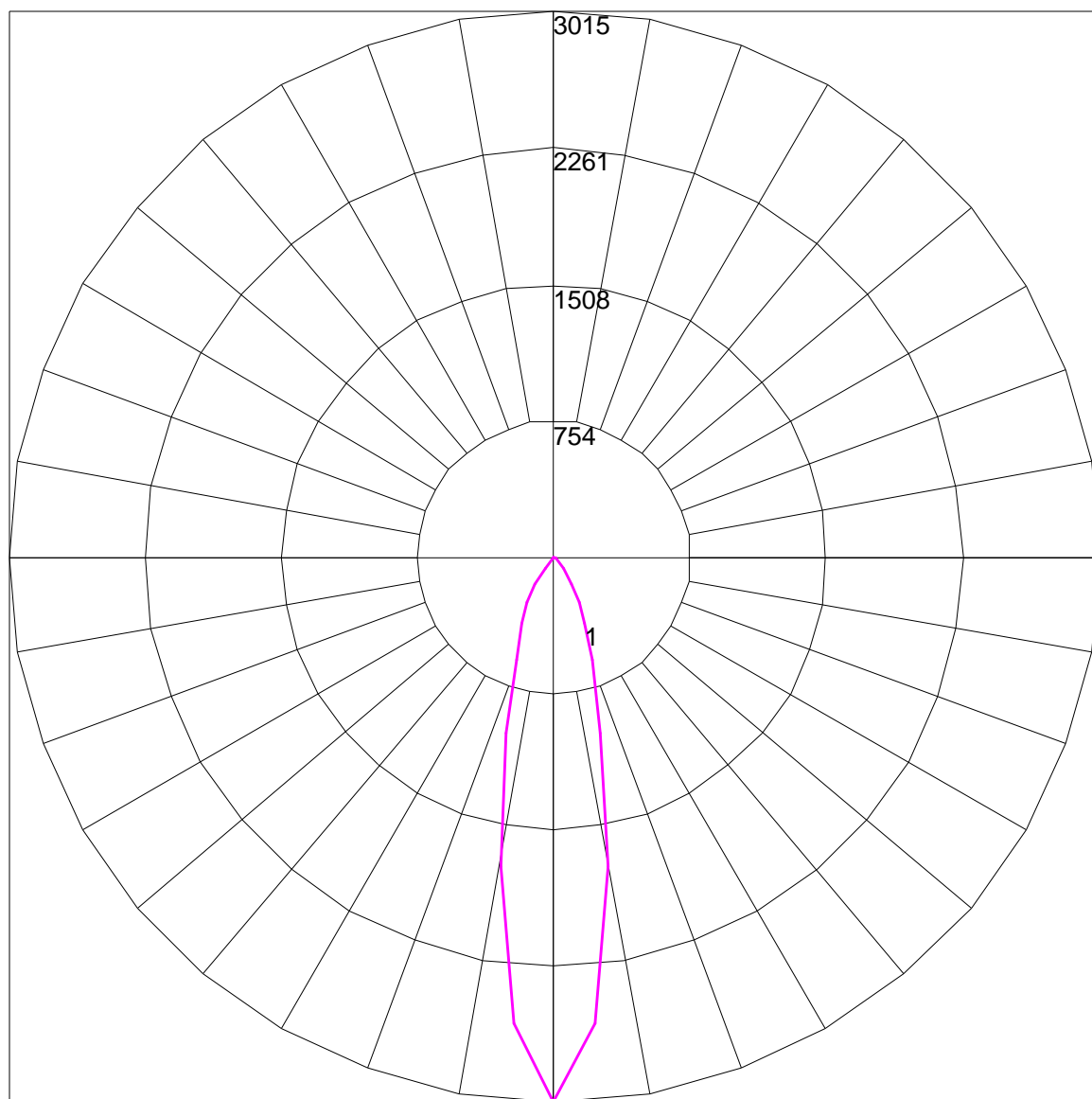
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 |
| 2 | 110 | 106 | 102 | 100 | 108 | 104 | 101 | 98 | 101 | 99 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 91 |
| 3 | 106 | 100 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 93 | 91 | 94 | 91 | 89 | 92 | 90 | 88 | 87 |
| 4 | 102 | 95 | 91 | 87 | 100 | 94 | 90 | 87 | 92 | 89 | 86 | 90 | 87 | 85 | 89 | 86 | 84 | 83 |
| 5 | 98 | 91 | 86 | 82 | 96 | 90 | 85 | 82 | 88 | 84 | 81 | 87 | 83 | 81 | 85 | 82 | 80 | 79 |
| 6 | 94 | 87 | 82 | 78 | 93 | 86 | 81 | 78 | 85 | 81 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 75 |
| 7 | 91 | 83 | 78 | 75 | 89 | 82 | 78 | 74 | 81 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 |
| 8 | 87 | 80 | 75 | 71 | 86 | 79 | 74 | 71 | 78 | 74 | 71 | 77 | 73 | 71 | 76 | 73 | 70 | 69 |
| 9 | 84 | 77 | 72 | 68 | 83 | 76 | 71 | 68 | 75 | 71 | 68 | 74 | 71 | 68 | 74 | 70 | 68 | 67 |
| 10 | 82 | 74 | 69 | 66 | 81 | 73 | 69 | 66 | 73 | 68 | 66 | 72 | 68 | 65 | 71 | 68 | 65 | 64 |

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POLAR GRAPH



Maximum Candela = 3015.166 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)