

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00592_8 ~ C08XXXT-20LXXK-WDEX-TSG-FG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00592_8_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 3/27/2018
[LUMCAT] C08xxXT-20L-xxK-WD-EX-TSG-FG
[LUMINAIRE] Nom.8" Diam. LED Cylinder Downlight
[OTHER] Data applicable to: 12"H and 18" H Cylinders
[OTHER] Upper, Internal Reflector, Wide Beam
[OTHER] Lower Trim, Semi-Diffuse, Clear Anodized Aluminum
[OTHER] Frosted Glass Lens, Regressed in Lower Trim
[OTHER] 54.9 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 | 1401 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 65 |
| Total Luminaire Watts | 21.7 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.84 |
| Spacing Criterion (90-270) | 0.82 |
| Spacing Criterion (Diagonal) | 0.90 |
| 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-00592_8 ~ C08XXXT-20LXXK-WDEX-TSG-FG.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 7813 | 8152 | 7482 |
| 55 | 1683 | 1823 | 1665 |
| 65 | 77 | 74 | 103 |
| 75 | 105 | 71 | 96 |
| 85 | 331 | 349 | 380 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00592_8 ~ C08XXXT-20LXXK-WDEX-TSG-FG.IES****CANDELA TABULATION**

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-----------|------------|-------------|-------------|-------------|-------------|
| 0 | 1520.138 | 1520.138 | 1520.138 | 1520.138 | 1520.138 |
| 5 | 1491.677 | 1494.322 | 1490.368 | 1489.831 | 1477.329 |
| 10 | 1393.903 | 1400.985 | 1396.557 | 1396.428 | 1375.015 |
| 15 | 1241.387 | 1255.053 | 1248.224 | 1251.642 | 1222.602 |
| 20 | 1057.961 | 1078.288 | 1069.844 | 1077.086 | 1042.766 |
| 25 | 857.904 | 884.104 | 880.739 | 888.840 | 853.683 |
| 30 | 659.471 | 686.818 | 689.231 | 697.898 | 663.624 |
| 35 | 479.229 | 506.504 | 508.807 | 517.199 | 487.322 |
| 40 | 322.885 | 346.669 | 343.931 | 353.818 | 325.270 |
| 45 | 183.837 | 195.854 | 191.816 | 198.327 | 176.051 |
| 50 | 81.652 | 86.972 | 85.380 | 88.630 | 78.811 |
| 55 | 32.132 | 36.309 | 34.799 | 36.985 | 31.788 |
| 60 | 8.305 | 10.473 | 9.458 | 10.945 | 8.496 |
| 65 | 1.089 | 1.349 | 1.042 | 1.784 | 1.454 |
| 70 | 0.815 | 0.998 | 0.739 | 0.987 | 0.830 |
| 75 | 0.903 | 1.021 | 0.613 | 0.822 | 0.829 |
| 80 | 0.995 | 1.191 | 1.229 | 1.173 | 0.931 |
| 85 | 0.959 | 1.214 | 1.012 | 1.249 | 1.102 |
| 90 | 0.962 | 0.949 | 0.679 | 0.772 | 0.887 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00592_8 ~ C08XXXT-20LXXK-WDEX-TSG-FG.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 486.69 | N.A. | 34.70 |
| 0-30 | 888.39 | N.A. | 63.40 |
| 0-40 | 1204.47 | N.A. | 86.00 |
| 0-60 | 1395.72 | N.A. | 99.60 |
| 0-80 | 1399.98 | N.A. | 99.90 |
| 0-90 | 1401.14 | N.A. | 100.00 |
| 10-90 | 1261.97 | N.A. | 90.10 |
| 20-40 | 717.78 | N.A. | 51.20 |
| 20-50 | 872.51 | N.A. | 62.30 |
| 40-70 | 194.54 | N.A. | 13.90 |
| 60-80 | 4.26 | N.A. | 0.30 |
| 70-80 | 0.98 | N.A. | 0.10 |
| 80-90 | 1.15 | 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 | 1401.14 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 139.17 |
| 10-20 | 347.52 |
| 20-30 | 401.70 |
| 30-40 | 316.08 |
| 40-50 | 154.73 |
| 50-60 | 36.52 |
| 60-70 | 3.29 |
| 70-80 | 0.98 |
| 80-90 | 1.15 |
| 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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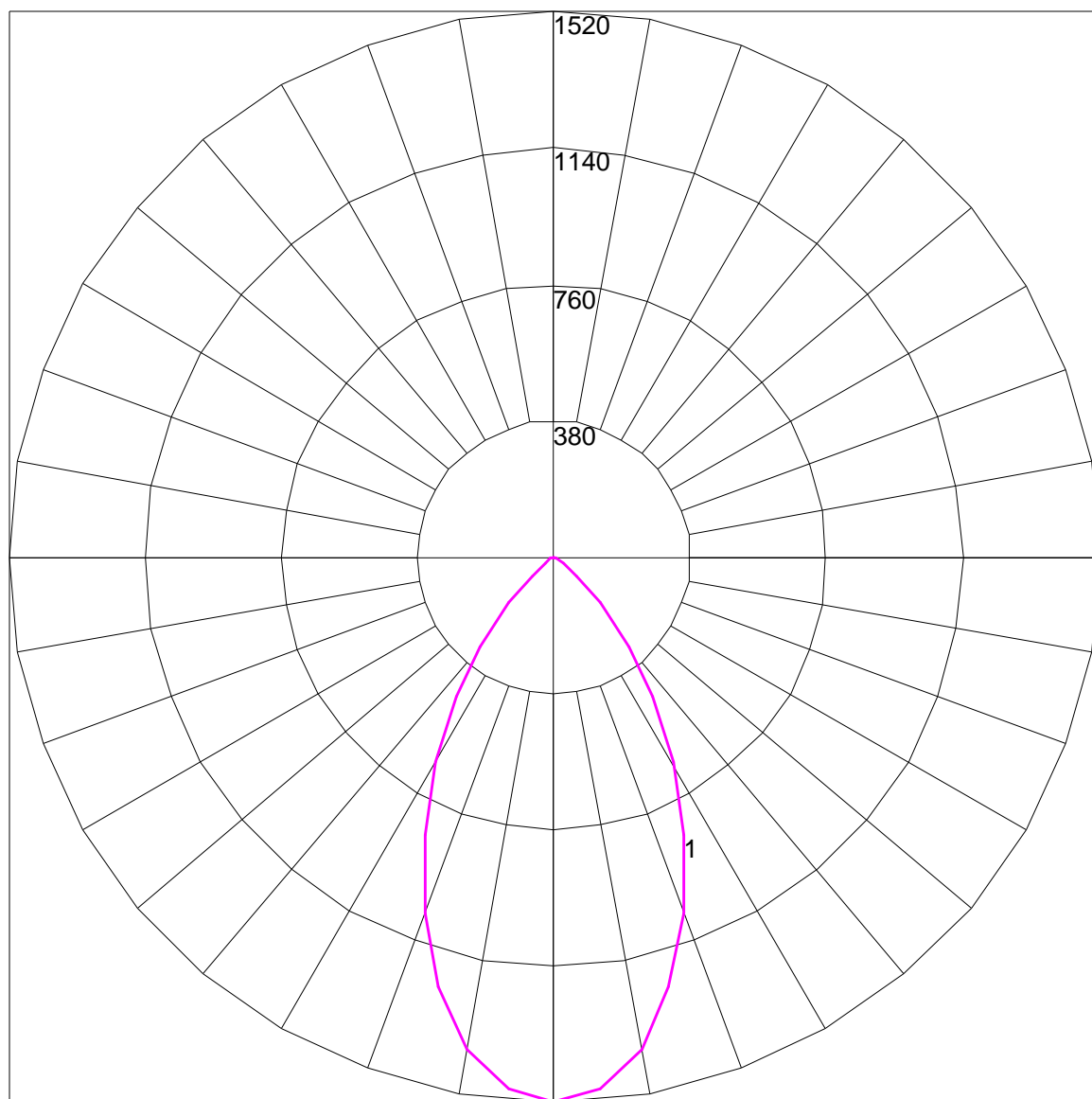
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 97 | 93 | 97 | 94 | 91 | 94 | 92 | 89 | 91 | 89 | 87 | 86 |
| 3 | 101 | 95 | 89 | 85 | 99 | 93 | 88 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 81 | 77 | 85 | 80 | 76 | 83 | 79 | 75 | 81 | 77 | 74 | 73 |
| 5 | 91 | 82 | 76 | 71 | 89 | 81 | 75 | 71 | 79 | 74 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 67 |
| 6 | 86 | 76 | 70 | 66 | 84 | 76 | 70 | 65 | 74 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 64 | 63 |
| 7 | 81 | 71 | 65 | 61 | 80 | 71 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 |
| 8 | 77 | 67 | 61 | 56 | 76 | 66 | 60 | 56 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 54 |
| 9 | 73 | 63 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 51 |
| 10 | 70 | 59 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 57 | 52 | 49 | 47 |

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POLAR GRAPH



Maximum Candela = 1520.138 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)