

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00592_4 ~ C08XXXT-30LXXK-NDEX-TSG-FG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00592_4
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 6/29/2017
[UPDATE] 3/26/2018
[LUMCAT] C08xxXT-30L-xxK-ND-EX-TSG-FG
[LUMINAIRE] Nom.8" Diam. LED Cylinder Downlight
[OTHER] Data applicable to: 12"H and 18" H Cylinders
[OTHER] Upper, Internal Reflector, Narrow Beam
[OTHER] Lower Trim, Semi-Diffuse, Clear Anodized Aluminum
[OTHER] Frosted Glass Lens, Regressed in Lower Trim
[OTHER] 38.8 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

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 2413 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 74 |
| Total Luminaire Watts | 32.6 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 0.58 |
| Spacing Criterion (90-270) | 0.58 |
| Spacing Criterion (Diagonal) | 0.68 |
| 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_4 ~ C08XXXT-30LXXK-NDEX-TSG-FG.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 8689 | 9039 | 7985 |
| 55 | 1283 | 1296 | 1096 |
| 65 | 108 | 131 | 133 |
| 75 | 207 | 203 | 144 |
| 85 | 627 | 541 | 505 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00592_4 ~ C08XXXT-30LXXK-NDEX-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 | 4171.320 | 4171.320 | 4171.320 | 4171.320 | 4171.320 |
| 5 | 3894.482 | 3966.501 | 3964.856 | 3973.032 | 3875.664 |
| 10 | 3238.874 | 3343.614 | 3341.964 | 3373.494 | 3237.738 |
| 15 | 2494.470 | 2597.711 | 2587.943 | 2632.517 | 2495.103 |
| 20 | 1855.055 | 1945.100 | 1932.154 | 1974.226 | 1859.708 |
| 25 | 1363.520 | 1432.403 | 1431.119 | 1460.171 | 1374.689 |
| 30 | 984.235 | 1041.289 | 1045.602 | 1067.788 | 998.735 |
| 35 | 684.125 | 730.979 | 733.588 | 752.762 | 694.520 |
| 40 | 426.092 | 465.798 | 453.890 | 472.443 | 418.409 |
| 45 | 204.460 | 217.239 | 212.689 | 216.727 | 187.890 |
| 50 | 74.015 | 76.712 | 75.661 | 76.842 | 65.960 |
| 55 | 24.487 | 25.351 | 24.737 | 25.080 | 20.917 |
| 60 | 6.010 | 6.708 | 6.267 | 5.824 | 5.140 |
| 65 | 1.516 | 2.104 | 1.842 | 2.011 | 1.876 |
| 70 | 1.327 | 1.479 | 1.527 | 1.595 | 1.630 |
| 75 | 1.787 | 1.131 | 1.749 | 1.314 | 1.241 |
| 80 | 1.578 | 1.221 | 1.342 | 1.542 | 1.254 |
| 85 | 1.818 | 1.048 | 1.568 | 1.817 | 1.466 |
| 90 | 1.470 | 0.959 | 1.380 | 1.785 | 1.074 |

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00592_4 ~ C08XXXT-30LXXK-NDEX-TSG-FG.IES****ZONAL LUMEN SUMMARY**

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1078.64 | N.A. | 44.70 |
| 0-30 | 1741.32 | N.A. | 72.20 |
| 0-40 | 2197.88 | N.A. | 91.10 |
| 0-60 | 2407.22 | N.A. | 99.80 |
| 0-80 | 2411.56 | N.A. | 99.90 |
| 0-90 | 2413.13 | N.A. | 100.00 |
| 10-90 | 2055.94 | N.A. | 85.20 |
| 20-40 | 1119.24 | N.A. | 46.40 |
| 20-50 | 1299.93 | N.A. | 53.90 |
| 40-70 | 212.16 | N.A. | 8.80 |
| 60-80 | 4.34 | N.A. | 0.20 |
| 70-80 | 1.52 | N.A. | 0.10 |
| 80-90 | 1.57 | 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 | 2413.13 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 357.19 |
| 10-20 | 721.45 |
| 20-30 | 662.68 |
| 30-40 | 456.56 |
| 40-50 | 180.69 |
| 50-60 | 28.65 |
| 60-70 | 2.82 |
| 70-80 | 1.52 |
| 80-90 | 1.57 |
| 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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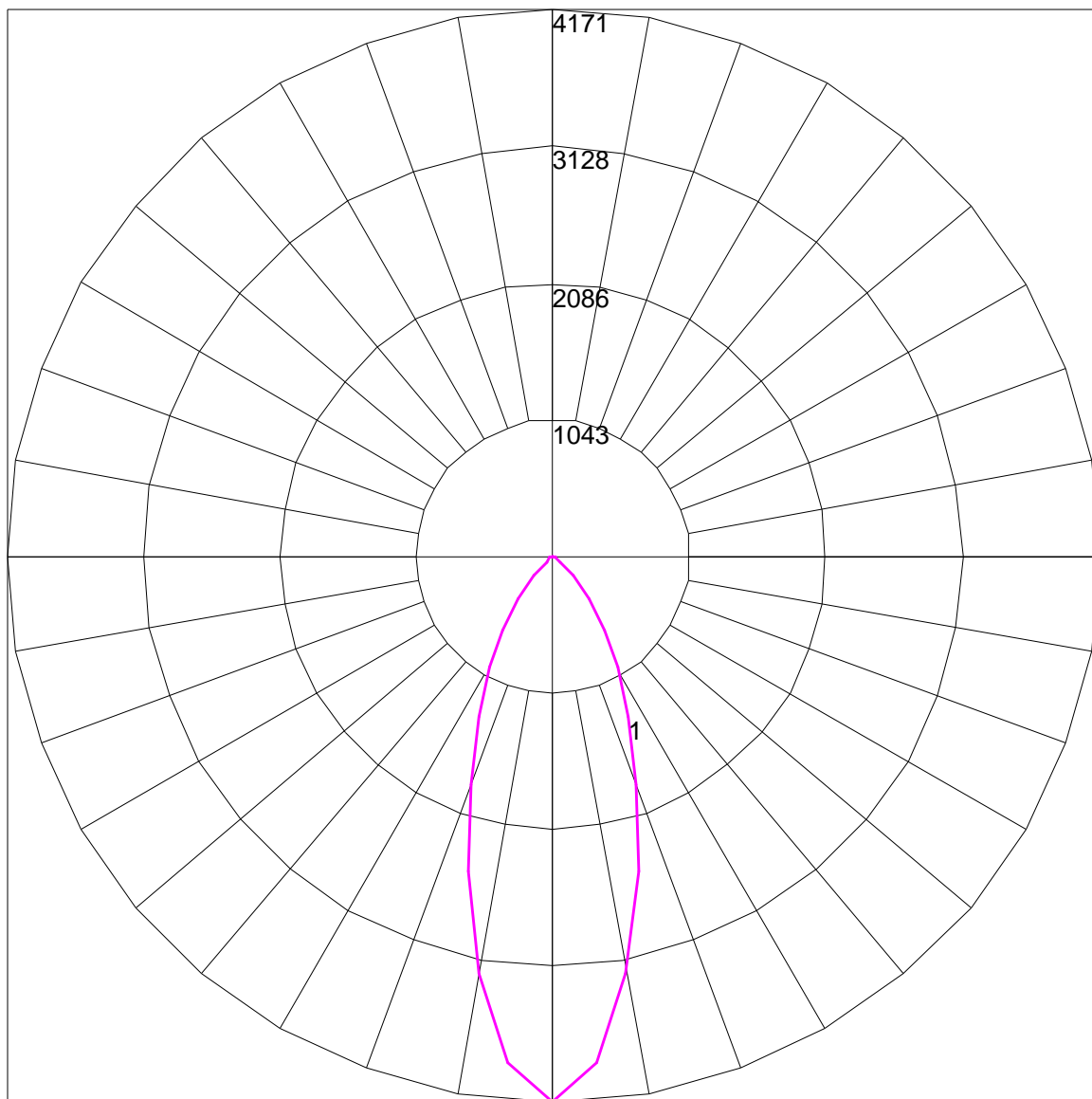
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 98 | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 100 | 96 | 106 | 102 | 98 | 95 | 99 | 96 | 93 | 96 | 93 | 91 | 93 | 91 | 89 | 88 |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 88 | 93 | 89 | 86 | 90 | 87 | 85 | 88 | 86 | 83 | 82 |
| 4 | 98 | 91 | 85 | 81 | 96 | 90 | 85 | 81 | 88 | 83 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 77 |
| 5 | 93 | 85 | 80 | 76 | 92 | 84 | 79 | 75 | 83 | 78 | 75 | 81 | 77 | 74 | 79 | 76 | 73 | 72 |
| 6 | 89 | 80 | 75 | 71 | 88 | 80 | 74 | 70 | 78 | 73 | 70 | 77 | 73 | 69 | 75 | 72 | 69 | 67 |
| 7 | 85 | 76 | 70 | 66 | 84 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 68 | 65 | 72 | 68 | 65 | 63 |
| 8 | 81 | 72 | 66 | 62 | 80 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 61 | 68 | 64 | 61 | 60 |
| 9 | 77 | 68 | 62 | 59 | 76 | 68 | 62 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 57 |
| 10 | 74 | 65 | 59 | 55 | 73 | 64 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 55 | 54 |

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POLAR GRAPH



Maximum Candela = 4171.32 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)