



IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS100-LR-4-PS-3C-M-90-45W-35K.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] S2311165-R1

[TESTLAB] Spectra Lux

[TESTDATE] 16 November 2023

[ISSUEDATE] 21 November 2023

[MANUFAC] BeLuce Canada Inc.

[LUMCAT] BS100-LR-4-PS-3C-M-90-45W-35K

[LUMINAIRE] BS100-LR-4-PS-3C-M-90-45W-35K

[LAMP] 6249 LUMENS

[REFLECTOR] White Painted Metal Plate

[LENS] Frosted Polycarbonate Diffuser

[HOUSING] Polymeric Molded Material

[DRIVE CURRENT] 96,186 mA / LED

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Vapor Proof

[SEARCH_CERTIFICATION] CSA

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6249 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 139 |
| Total Luminaire Watts | 45 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.30 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.40 |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 4.19 ft |
| Luminous Width (90-270) | 0.54 ft |
| Luminous Height | 0.38 ft |

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LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 8628 | 6035 | 5413 |
| 55 | 7943 | 5077 | 4484 |
| 65 | 6848 | 3951 | 3438 |
| 75 | 5314 | 2638 | 2269 |
| 85 | 2700 | 1394 | 1183 |

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CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 2047.610 | 2047.610 | 2047.610 | 2047.610 | 2047.610 |
| 2.5 | 2045.502 | 2043.395 | 2041.288 | 2039.883 | 2039.883 |
| 5.0 | 2038.478 | 2034.263 | 2032.156 | 2032.859 | 2031.453 |
| 7.5 | 2028.644 | 2025.132 | 2019.512 | 2016.702 | 2017.405 |
| 10.0 | 2014.595 | 2010.380 | 2004.058 | 2000.546 | 1998.439 |
| 12.5 | 1998.439 | 1991.415 | 1983.688 | 1977.366 | 1975.961 |
| 15.0 | 1976.664 | 1970.342 | 1959.103 | 1952.078 | 1950.673 |
| 17.5 | 1954.185 | 1946.459 | 1930.302 | 1925.386 | 1921.873 |
| 20.0 | 1926.790 | 1916.956 | 1900.800 | 1894.478 | 1890.966 |
| 22.5 | 1895.180 | 1883.942 | 1864.976 | 1861.463 | 1856.546 |
| 25.0 | 1858.654 | 1848.118 | 1828.449 | 1823.532 | 1820.020 |
| 27.5 | 1814.400 | 1806.674 | 1787.707 | 1781.385 | 1775.766 |
| 30.0 | 1769.444 | 1756.800 | 1744.157 | 1736.429 | 1730.810 |
| 32.5 | 1720.273 | 1705.522 | 1696.390 | 1687.258 | 1678.829 |
| 35.0 | 1666.185 | 1652.136 | 1644.410 | 1633.171 | 1624.039 |
| 37.5 | 1607.180 | 1593.132 | 1588.917 | 1576.273 | 1564.332 |
| 40.0 | 1545.366 | 1531.317 | 1529.912 | 1513.054 | 1501.815 |
| 42.5 | 1476.527 | 1465.991 | 1465.991 | 1447.727 | 1434.381 |
| 45.0 | 1402.068 | 1398.556 | 1397.854 | 1378.185 | 1366.244 |
| 47.5 | 1328.312 | 1326.205 | 1325.502 | 1307.239 | 1296.703 |
| 50.0 | 1250.342 | 1255.259 | 1252.449 | 1236.293 | 1225.757 |
| 52.5 | 1168.156 | 1176.585 | 1176.585 | 1162.536 | 1153.405 |
| 55.0 | 1083.864 | 1095.805 | 1099.317 | 1088.078 | 1078.946 |
| 57.5 | 996.059 | 1010.810 | 1019.941 | 1009.405 | 1001.678 |
| 60.0 | 907.551 | 925.814 | 938.459 | 930.732 | 923.708 |
| 62.5 | 818.341 | 840.820 | 856.273 | 849.951 | 843.630 |
| 65.0 | 727.727 | 754.420 | 769.873 | 767.766 | 761.444 |
| 67.5 | 639.922 | 668.722 | 685.580 | 684.878 | 678.556 |
| 70.0 | 554.224 | 583.025 | 600.586 | 604.098 | 597.776 |
| 72.5 | 469.932 | 499.435 | 516.995 | 523.317 | 519.805 |
| 75.0 | 387.044 | 416.547 | 441.132 | 447.454 | 443.942 |
| 77.5 | 306.263 | 337.171 | 363.161 | 376.507 | 372.995 |
| 80.0 | 229.698 | 264.819 | 297.132 | 309.776 | 306.966 |
| 82.5 | 158.049 | 200.898 | 237.424 | 250.068 | 246.556 |
| 85.0 | 100.449 | 151.024 | 187.551 | 198.088 | 193.873 |
| 87.5 | 66.732 | 113.795 | 147.512 | 155.239 | 150.322 |
| 90.0 | 57.600 | 88.507 | 115.902 | 121.522 | 117.308 |
| 92.5 | 52.683 | 71.649 | 93.425 | 97.639 | 94.127 |
| 95.0 | 47.064 | 59.707 | 76.566 | 80.780 | 77.970 |
| 97.5 | 42.146 | 49.873 | 66.029 | 68.839 | 67.434 |
| 100.0 | 37.230 | 42.146 | 57.600 | 61.815 | 60.409 |
| 102.5 | 32.312 | 35.824 | 50.576 | 56.195 | 56.195 |
| 105.0 | 27.395 | 29.502 | 44.254 | 51.981 | 52.683 |
| 107.5 | 23.181 | 24.585 | 37.932 | 48.468 | 49.171 |
| 110.0 | 19.669 | 20.371 | 33.015 | 44.254 | 46.361 |
| 112.5 | 16.859 | 16.859 | 28.097 | 39.336 | 42.146 |
| 115.0 | 14.049 | 14.049 | 23.883 | 35.122 | 38.634 |
| 117.5 | 11.941 | 11.941 | 19.669 | 30.205 | 34.420 |
| 120.0 | 10.537 | 10.537 | 16.859 | 26.693 | 29.502 |
| 122.5 | 9.132 | 9.132 | 14.049 | 22.478 | 25.990 |
| 125.0 | 8.429 | 8.429 | 11.941 | 19.669 | 22.478 |
| 127.5 | 7.727 | 7.727 | 10.537 | 16.859 | 19.669 |
| 130.0 | 7.024 | 7.024 | 9.132 | 14.751 | 16.859 |
| 132.5 | 6.322 | 7.024 | 7.727 | 12.644 | 14.049 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|-------|-------|-------|--------|--------|
| 135.0 | 6.322 | 7.024 | 7.727 | 10.537 | 12.644 |
| 137.5 | 6.322 | 7.024 | 7.727 | 9.132 | 10.537 |
| 140.0 | 6.322 | 7.024 | 7.024 | 8.429 | 9.132 |
| 142.5 | 6.322 | 7.024 | 7.024 | 7.727 | 8.429 |
| 145.0 | 6.322 | 7.024 | 7.024 | 7.727 | 7.727 |
| 147.5 | 6.322 | 7.024 | 7.024 | 7.024 | 7.727 |
| 150.0 | 6.322 | 7.024 | 7.024 | 7.024 | 7.024 |
| 152.5 | 6.322 | 6.322 | 7.024 | 7.024 | 7.024 |
| 155.0 | 6.322 | 6.322 | 6.322 | 7.024 | 7.024 |
| 157.5 | 6.322 | 6.322 | 6.322 | 6.322 | 7.024 |
| 160.0 | 6.322 | 6.322 | 6.322 | 6.322 | 7.024 |
| 162.5 | 5.620 | 6.322 | 6.322 | 6.322 | 6.322 |
| 165.0 | 5.620 | 5.620 | 6.322 | 6.322 | 6.322 |
| 167.5 | 5.620 | 5.620 | 5.620 | 6.322 | 6.322 |
| 170.0 | 5.620 | 5.620 | 5.620 | 6.322 | 6.322 |
| 172.5 | 5.620 | 5.620 | 5.620 | 5.620 | 5.620 |
| 175.0 | 5.620 | 5.620 | 5.620 | 5.620 | 5.620 |
| 177.5 | 5.620 | 5.620 | 5.620 | 5.620 | 5.620 |
| 180.0 | 5.000 | 5.000 | 5.000 | 5.000 | 5.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 747.13 | N.A. | 12.00 |
| 0-30 | 1592.64 | N.A. | 25.50 |
| 0-40 | 2620.57 | N.A. | 41.90 |
| 0-60 | 4666.83 | N.A. | 74.70 |
| 0-80 | 5875.08 | N.A. | 94.00 |
| 0-90 | 6070.97 | N.A. | 97.10 |
| 10-90 | 5877.75 | N.A. | 94.10 |
| 20-40 | 1873.44 | N.A. | 30.00 |
| 20-50 | 2945.28 | N.A. | 47.10 |
| 40-70 | 2797.91 | N.A. | 44.80 |
| 60-80 | 1208.25 | N.A. | 19.30 |
| 70-80 | 456.59 | N.A. | 7.30 |
| 80-90 | 195.90 | N.A. | 3.10 |
| 90-110 | 124.05 | N.A. | 2.00 |
| 90-120 | 148.99 | N.A. | 2.40 |
| 90-130 | 161.72 | N.A. | 2.60 |
| 90-150 | 173.11 | N.A. | 2.80 |
| 90-180 | 178.45 | N.A. | 2.90 |
| 110-180 | 54.41 | N.A. | 0.90 |
| 0-180 | 6249.42 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 193.22 |
| 10-20 | 553.91 |
| 20-30 | 845.51 |
| 30-40 | 1027.93 |
| 40-50 | 1071.84 |
| 50-60 | 974.42 |
| 60-70 | 751.65 |
| 70-80 | 456.59 |
| 80-90 | 195.90 |
| 90-100 | 79.65 |
| 100-110 | 44.40 |
| 110-120 | 24.94 |
| 120-130 | 12.74 |
| 130-140 | 6.87 |
| 140-150 | 4.52 |
| 150-160 | 3.07 |
| 160-170 | 1.73 |
| 170-180 | 0.54 |

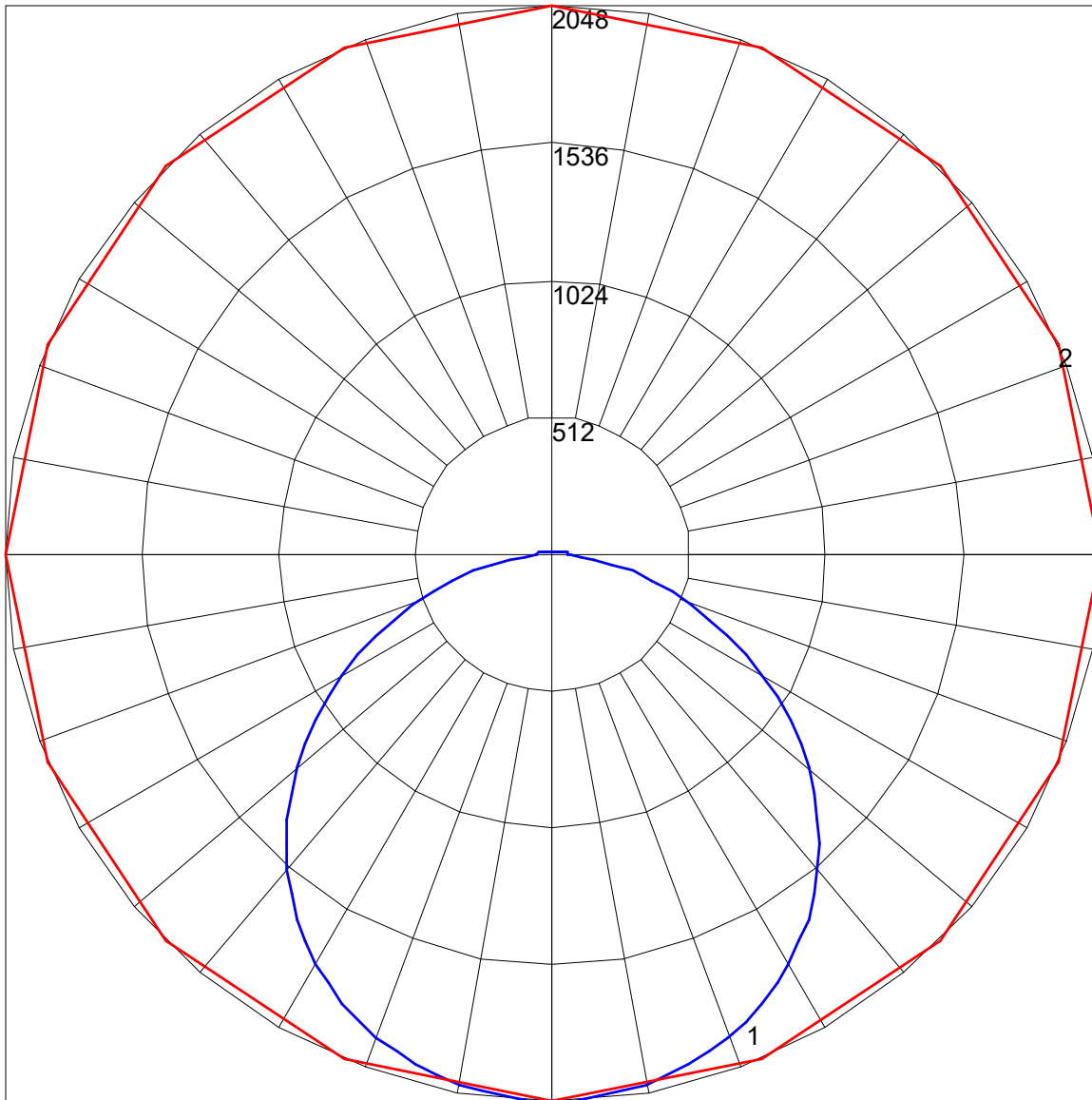
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 104 | 104 | 104 | 99 | 99 | 99 | 97 |
| 1 | 107 | 102 | 98 | 94 | 104 | 100 | 96 | 92 | 95 | 92 | 89 | 91 | 88 | 85 | 87 | 84 | 82 | 80 |
| 2 | 97 | 89 | 82 | 76 | 95 | 87 | 80 | 75 | 83 | 77 | 73 | 79 | 74 | 71 | 76 | 72 | 69 | 66 |
| 3 | 89 | 78 | 70 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 64 | 59 | 67 | 62 | 58 | 55 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 53 | 64 | 57 | 51 | 62 | 56 | 50 | 59 | 54 | 49 | 47 |
| 5 | 75 | 61 | 52 | 46 | 72 | 60 | 52 | 45 | 58 | 50 | 44 | 55 | 49 | 44 | 53 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 40 | 67 | 54 | 46 | 39 | 52 | 44 | 39 | 50 | 43 | 38 | 48 | 42 | 38 | 35 |
| 7 | 64 | 50 | 41 | 35 | 62 | 49 | 41 | 35 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 59 | 46 | 37 | 31 | 58 | 45 | 37 | 31 | 43 | 36 | 31 | 42 | 35 | 30 | 40 | 34 | 30 | 28 |
| 9 | 55 | 42 | 34 | 28 | 54 | 41 | 33 | 28 | 40 | 33 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 |
| 10 | 52 | 39 | 31 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 23 |

POLAR GRAPH



Maximum Candela = 2047.61 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)