

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CZF3044LAJD2XX\_IES.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] 102929574CHI-019  
 [TESTLAB] INTERTEK  
 [ISSUE DATE]  
 [TESTDATE] 10/24/2018  
 [MANUFAC] AFX, INC.  
 [LUMCAT] CZF3044LAJD2SN-WHWH  
 [LUMINAIRE] 30" CORTEZ CEILING  
 [LAMP] LED

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 4010               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 69                 |
| Total Luminaire Watts           | 57.8               |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Semi-Direct        |
| Spacing Criterion (0-180)       | 1.36               |
| Spacing Criterion (90-270)      | 1.34               |
| Spacing Criterion (Diagonal)    | 1.46               |
| Basic Luminous Shape            | Circular           |
| Luminous Length (0-180)         | 2.00 ft (Diameter) |
| Luminous Width (90-270)         | 2.00 ft (Diameter) |
| Luminous Height                 | 0.00 ft            |

**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 3743             | 3685              | 3696              |
| 55                  | 3753             | 3677              | 3694              |
| 65                  | 3740             | 3638              | 3675              |
| 75                  | 3838             | 3669              | 3730              |
| 85                  | 4960             | 4674              | 4772              |

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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> | <u>112.5</u> | <u>135.0</u> | <u>157.5</u> | <u>180.0</u> | <u>202.5</u> |
|--------------|------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|
| <b>0.0</b>   | 1025.9     | 1025.9      | 1025.9      | 1025.9      | 1025.9      | 1025.9       | 1025.9       | 1025.9       | 1025.9       | 1025.9       |
| <b>2.5</b>   | 1024.9     | 1024.9      | 1024.8      | 1024.8      | 1024.8      | 1024.6       | 1024.5       | 1025.1       | 1024.5       | 1025.1       |
| <b>5.0</b>   | 1024.3     | 1024.1      | 1024.0      | 1024.0      | 1023.9      | 1024.1       | 1024.3       | 1024.5       | 1024.6       | 1024.5       |
| <b>7.5</b>   | 1023.6     | 1022.7      | 1022.7      | 1022.9      | 1022.8      | 1022.8       | 1023.2       | 1023.2       | 1022.5       | 1023.2       |
| <b>10.0</b>  | 1021.0     | 1019.3      | 1019.7      | 1019.8      | 1019.9      | 1019.9       | 1020.4       | 1021.1       | 1019.2       | 1021.1       |
| <b>12.5</b>  | 1017.3     | 1014.6      | 1014.5      | 1015.0      | 1014.9      | 1015.4       | 1015.6       | 1016.2       | 1014.0       | 1016.2       |
| <b>15.0</b>  | 1011.5     | 1007.8      | 1007.8      | 1008.0      | 1008.0      | 1008.4       | 1009.4       | 1009.7       | 1006.9       | 1009.7       |
| <b>17.5</b>  | 1003.0     | 998.9       | 999.1       | 999.3       | 999.3       | 999.9        | 1001.1       | 1001.4       | 997.5        | 1001.4       |
| <b>20.0</b>  | 993.1      | 988.1       | 988.6       | 988.9       | 989.7       | 989.9        | 990.5        | 991.3        | 986.4        | 991.3        |
| <b>22.5</b>  | 982.0      | 975.8       | 976.3       | 976.4       | 977.0       | 977.8        | 978.3        | 979.4        | 974.1        | 979.4        |
| <b>25.0</b>  | 968.1      | 961.6       | 962.1       | 962.7       | 963.5       | 964.4        | 964.9        | 965.9        | 959.5        | 965.9        |
| <b>27.5</b>  | 952.2      | 945.8       | 945.8       | 946.8       | 947.3       | 948.1        | 949.4        | 950.1        | 943.5        | 950.1        |
| <b>30.0</b>  | 934.5      | 925.9       | 926.8       | 927.7       | 928.4       | 929.1        | 931.1        | 931.9        | 923.9        | 931.9        |
| <b>32.5</b>  | 913.1      | 903.7       | 904.7       | 905.6       | 906.4       | 907.4        | 909.3        | 910.3        | 901.3        | 910.3        |
| <b>35.0</b>  | 889.3      | 879.3       | 880.3       | 881.2       | 882.5       | 883.4        | 884.7        | 886.3        | 877.0        | 886.3        |
| <b>37.5</b>  | 863.0      | 852.9       | 853.0       | 854.6       | 856.8       | 857.4        | 858.5        | 860.2        | 850.4        | 860.2        |
| <b>40.0</b>  | 834.6      | 824.1       | 824.5       | 826.2       | 827.7       | 828.7        | 829.9        | 832.1        | 820.7        | 832.1        |
| <b>42.5</b>  | 804.8      | 793.4       | 793.8       | 795.5       | 796.2       | 797.3        | 799.3        | 801.6        | 789.1        | 801.6        |
| <b>45.0</b>  | 773.2      | 760.3       | 761.2       | 762.8       | 763.5       | 765.2        | 766.7        | 768.8        | 757.0        | 768.8        |
| <b>47.5</b>  | 738.5      | 726.3       | 726.9       | 728.2       | 729.9       | 731.0        | 733.2        | 735.0        | 723.4        | 735.0        |
| <b>50.0</b>  | 703.5      | 691.1       | 691.2       | 692.8       | 694.8       | 695.6        | 698.2        | 699.9        | 688.5        | 699.9        |
| <b>52.5</b>  | 666.4      | 653.2       | 654.5       | 655.5       | 657.7       | 658.7        | 661.0        | 662.9        | 649.9        | 662.9        |
| <b>55.0</b>  | 628.9      | 614.8       | 616.1       | 617.9       | 618.9       | 620.6        | 622.6        | 624.4        | 610.9        | 624.4        |
| <b>57.5</b>  | 588.2      | 574.8       | 576.3       | 577.8       | 578.8       | 581.0        | 582.1        | 584.6        | 570.9        | 584.6        |
| <b>60.0</b>  | 548.2      | 534.0       | 534.2       | 536.4       | 538.0       | 539.5        | 541.1        | 543.4        | 529.9        | 543.4        |
| <b>62.5</b>  | 506.2      | 491.2       | 492.1       | 493.9       | 496.0       | 496.5        | 499.2        | 501.3        | 487.6        | 501.3        |
| <b>65.0</b>  | 461.8      | 447.8       | 449.2       | 451.1       | 453.7       | 454.3        | 456.6        | 457.9        | 443.7        | 457.9        |
| <b>67.5</b>  | 417.3      | 404.6       | 407.0       | 408.4       | 410.3       | 411.9        | 412.9        | 414.3        | 399.6        | 414.3        |
| <b>70.0</b>  | 374.3      | 362.2       | 364.1       | 366.1       | 367.9       | 369.1        | 369.2        | 370.7        | 356.6        | 370.7        |
| <b>72.5</b>  | 333.1      | 319.5       | 320.8       | 323.4       | 325.3       | 326.5        | 326.7        | 328.4        | 314.6        | 328.4        |
| <b>75.0</b>  | 290.2      | 276.9       | 277.4       | 280.3       | 282.0       | 283.3        | 284.8        | 286.2        | 273.0        | 286.2        |
| <b>77.5</b>  | 246.9      | 234.6       | 235.0       | 236.8       | 238.7       | 240.4        | 242.3        | 243.7        | 230.1        | 243.7        |
| <b>80.0</b>  | 203.4      | 193.0       | 193.3       | 194.2       | 196.2       | 197.9        | 199.8        | 201.5        | 189.1        | 201.5        |
| <b>82.5</b>  | 162.9      | 153.2       | 153.9       | 154.7       | 156.3       | 157.7        | 159.2        | 161.3        | 150.7        | 161.3        |
| <b>85.0</b>  | 126.3      | 118.2       | 119.0       | 120.0       | 121.5       | 122.1        | 123.3        | 125.4        | 116.6        | 125.4        |
| <b>87.5</b>  | 100.9      | 98.3        | 98.5        | 99.6        | 100.6       | 100.8        | 101.1        | 101.9        | 98.3         | 101.9        |
| <b>90.0</b>  | 93.5       | 91.8        | 91.8        | 91.8        | 92.0        | 92.0         | 91.9         | 91.8         | 89.5         | 91.8         |
| <b>92.5</b>  | 92.0       | 91.1        | 90.4        | 89.6        | 89.2        | 89.2         | 89.3         | 89.5         | 90.4         | 89.5         |
| <b>95.0</b>  | 94.6       | 93.0        | 92.0        | 91.0        | 90.4        | 90.6         | 90.9         | 91.3         | 91.1         | 91.3         |
| <b>97.5</b>  | 95.5       | 93.4        | 92.6        | 91.4        | 90.9        | 90.9         | 91.3         | 91.8         | 91.0         | 91.8         |
| <b>100.0</b> | 95.0       | 93.1        | 92.4        | 91.7        | 91.2        | 91.2         | 91.5         | 92.0         | 91.1         | 92.0         |
| <b>102.5</b> | 94.8       | 93.1        | 92.4        | 91.6        | 91.3        | 91.3         | 91.5         | 92.1         | 91.6         | 92.1         |
| <b>105.0</b> | 95.1       | 93.5        | 92.5        | 91.8        | 91.6        | 91.3         | 91.5         | 92.4         | 91.8         | 92.4         |
| <b>107.5</b> | 95.5       | 93.8        | 92.9        | 92.2        | 92.0        | 91.7         | 92.1         | 93.1         | 92.6         | 93.1         |
| <b>110.0</b> | 95.9       | 94.5        | 93.4        | 92.7        | 92.7        | 92.5         | 93.3         | 94.3         | 93.9         | 94.3         |
| <b>112.5</b> | 96.8       | 95.4        | 94.1        | 93.5        | 93.7        | 93.7         | 94.4         | 95.8         | 95.7         | 95.8         |
| <b>115.0</b> | 97.9       | 96.5        | 94.9        | 94.6        | 94.9        | 95.1         | 95.8         | 97.4         | 97.5         | 97.4         |
| <b>117.5</b> | 99.2       | 97.6        | 95.9        | 95.8        | 96.1        | 96.5         | 97.4         | 99.1         | 99.7         | 99.1         |
| <b>120.0</b> | 100.7      | 99.0        | 97.1        | 97.1        | 97.4        | 98.0         | 99.2         | 100.8        | 101.8        | 100.8        |
| <b>122.5</b> | 101.8      | 100.4       | 98.7        | 98.5        | 98.8        | 99.4         | 100.9        | 102.4        | 103.5        | 102.4        |
| <b>125.0</b> | 103.2      | 101.7       | 100.0       | 99.8        | 100.1       | 100.8        | 102.3        | 104.1        | 105.4        | 104.1        |
| <b>127.5</b> | 104.5      | 102.7       | 101.4       | 101.0       | 101.3       | 102.1        | 103.7        | 105.8        | 107.1        | 105.8        |
| <b>130.0</b> | 104.8      | 103.1       | 102.0       | 101.6       | 102.0       | 103.0        | 104.4        | 106.6        | 107.9        | 106.6        |
| <b>132.5</b> | 105.1      | 103.6       | 102.4       | 101.7       | 102.2       | 103.0        | 104.4        | 106.8        | 108.0        | 106.8        |

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**CANDELA TABULATION - (Cont.)**

|              |       |       |       |       |       |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>135.0</b> | 104.2 | 103.3 | 102.6 | 101.8 | 102.4 | 103.1 | 104.1 | 106.3 | 107.1 | 106.3 |
| <b>137.5</b> | 104.3 | 103.5 | 102.9 | 101.4 | 102.6 | 103.2 | 104.5 | 106.2 | 106.8 | 106.2 |
| <b>140.0</b> | 104.7 | 104.0 | 103.4 | 101.6 | 102.9 | 103.7 | 104.9 | 106.5 | 106.6 | 106.5 |
| <b>142.5</b> | 105.2 | 104.4 | 104.1 | 102.6 | 103.1 | 103.7 | 105.0 | 105.7 | 106.6 | 105.7 |
| <b>145.0</b> | 105.6 | 104.6 | 104.4 | 102.2 | 101.7 | 102.7 | 103.9 | 104.9 | 105.1 | 104.9 |
| <b>147.5</b> | 106.0 | 104.6 | 103.7 | 101.2 | 100.1 | 101.3 | 102.3 | 102.9 | 101.7 | 102.9 |
| <b>150.0</b> | 105.8 | 103.8 | 102.7 | 100.0 | 98.8  | 99.6  | 100.2 | 100.7 | 99.2  | 100.7 |
| <b>152.5</b> | 103.5 | 100.9 | 100.6 | 97.6  | 96.2  | 96.6  | 97.1  | 97.3  | 96.1  | 97.3  |
| <b>155.0</b> | 99.9  | 97.0  | 96.9  | 93.9  | 93.0  | 92.7  | 93.6  | 93.3  | 91.8  | 93.3  |
| <b>157.5</b> | 94.7  | 92.3  | 91.9  | 89.9  | 89.4  | 88.6  | 89.5  | 89.0  | 86.5  | 89.0  |
| <b>160.0</b> | 89.3  | 87.3  | 86.6  | 85.3  | 85.0  | 84.2  | 84.9  | 84.1  | 81.4  | 84.1  |
| <b>162.5</b> | 82.8  | 81.4  | 81.4  | 79.8  | 79.2  | 79.9  | 80.0  | 79.9  | 76.1  | 79.9  |
| <b>165.0</b> | 77.9  | 76.9  | 76.0  | 74.7  | 74.5  | 75.1  | 75.2  | 75.4  | 73.5  | 75.4  |
| <b>167.5</b> | 72.9  | 71.5  | 70.8  | 70.2  | 69.4  | 70.3  | 71.1  | 71.4  | 69.7  | 71.4  |
| <b>170.0</b> | 68.1  | 66.3  | 65.6  | 65.1  | 64.9  | 65.4  | 66.7  | 66.2  | 65.3  | 66.2  |
| <b>172.5</b> | 62.5  | 61.0  | 61.0  | 60.3  | 60.4  | 61.2  | 61.0  | 61.0  | 58.7  | 61.0  |
| <b>175.0</b> | 57.5  | 57.0  | 57.3  | 57.2  | 56.6  | 56.4  | 56.5  | 56.2  | 54.1  | 56.2  |
| <b>177.5</b> | 54.4  | 54.3  | 54.4  | 54.8  | 54.7  | 54.5  | 54.2  | 54.3  | 53.5  | 54.3  |
| <b>180.0</b> | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  |

**Vert. Angles**      **Horizontal Angles**

|             | <u><b>225.0</b></u> | <u><b>247.5</b></u> | <u><b>270.0</b></u> | <u><b>292.5</b></u> | <u><b>315.0</b></u> | <u><b>337.5</b></u> | <u><b>360.0</b></u> |
|-------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| <b>0.0</b>  | 1025.9              | 1025.9              | 1025.9              | 1025.9              | 1025.9              | 1025.9              | 1025.9              |
| <b>2.5</b>  | 1024.5              | 1024.6              | 1024.8              | 1024.8              | 1024.8              | 1024.9              | 1024.9              |
| <b>5.0</b>  | 1024.3              | 1024.1              | 1023.9              | 1024.0              | 1024.0              | 1024.1              | 1024.3              |
| <b>7.5</b>  | 1023.2              | 1022.8              | 1022.8              | 1022.9              | 1022.7              | 1022.7              | 1023.6              |
| <b>10.0</b> | 1020.4              | 1019.9              | 1019.9              | 1019.8              | 1019.7              | 1019.3              | 1021.0              |
| <b>12.5</b> | 1015.6              | 1015.4              | 1014.9              | 1015.0              | 1014.5              | 1014.6              | 1017.3              |
| <b>15.0</b> | 1009.4              | 1008.4              | 1008.0              | 1008.0              | 1007.8              | 1007.8              | 1011.5              |
| <b>17.5</b> | 1001.1              | 999.9               | 999.3               | 999.3               | 999.1               | 998.9               | 1003.0              |
| <b>20.0</b> | 990.5               | 989.9               | 989.7               | 988.9               | 988.6               | 988.1               | 993.1               |
| <b>22.5</b> | 978.3               | 977.8               | 977.0               | 976.4               | 976.3               | 975.8               | 982.0               |
| <b>25.0</b> | 964.9               | 964.4               | 963.5               | 962.7               | 962.1               | 961.6               | 968.1               |
| <b>27.5</b> | 949.4               | 948.1               | 947.3               | 946.8               | 945.8               | 945.8               | 952.2               |
| <b>30.0</b> | 931.1               | 929.1               | 928.4               | 927.7               | 926.8               | 925.9               | 934.5               |
| <b>32.5</b> | 909.3               | 907.4               | 906.4               | 905.6               | 904.7               | 903.7               | 913.1               |
| <b>35.0</b> | 884.7               | 883.4               | 882.5               | 881.2               | 880.3               | 879.3               | 889.3               |
| <b>37.5</b> | 858.5               | 857.4               | 856.8               | 854.6               | 853.0               | 852.9               | 863.0               |
| <b>40.0</b> | 829.9               | 828.7               | 827.7               | 826.2               | 824.5               | 824.1               | 834.6               |
| <b>42.5</b> | 799.3               | 797.3               | 796.2               | 795.5               | 793.8               | 793.4               | 804.8               |
| <b>45.0</b> | 766.7               | 765.2               | 763.5               | 762.8               | 761.2               | 760.3               | 773.2               |
| <b>47.5</b> | 733.2               | 731.0               | 729.9               | 728.2               | 726.9               | 726.3               | 738.5               |
| <b>50.0</b> | 698.2               | 695.6               | 694.8               | 692.8               | 691.2               | 691.1               | 703.5               |
| <b>52.5</b> | 661.0               | 658.7               | 657.7               | 655.5               | 654.5               | 653.2               | 666.4               |
| <b>55.0</b> | 622.6               | 620.6               | 618.9               | 617.9               | 616.1               | 614.8               | 628.9               |
| <b>57.5</b> | 582.1               | 581.0               | 578.8               | 577.8               | 576.3               | 574.8               | 588.2               |
| <b>60.0</b> | 541.1               | 539.5               | 538.0               | 536.4               | 534.2               | 534.0               | 548.2               |
| <b>62.5</b> | 499.2               | 496.5               | 496.0               | 493.9               | 492.1               | 491.2               | 506.2               |
| <b>65.0</b> | 456.6               | 454.3               | 453.7               | 451.1               | 449.2               | 447.8               | 461.8               |
| <b>67.5</b> | 412.9               | 411.9               | 410.3               | 408.4               | 407.0               | 404.6               | 417.3               |
| <b>70.0</b> | 369.2               | 369.1               | 367.9               | 366.1               | 364.1               | 362.2               | 374.3               |
| <b>72.5</b> | 326.7               | 326.5               | 325.3               | 323.4               | 320.8               | 319.5               | 333.1               |
| <b>75.0</b> | 284.8               | 283.3               | 282.0               | 280.3               | 277.4               | 276.9               | 290.2               |
| <b>77.5</b> | 242.3               | 240.4               | 238.7               | 236.8               | 235.0               | 234.6               | 246.9               |
| <b>80.0</b> | 199.8               | 197.9               | 196.2               | 194.2               | 193.3               | 193.0               | 203.4               |

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**CANDELA TABULATION - (Cont.)**

|              |       |       |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| <b>82.5</b>  | 159.2 | 157.7 | 156.3 | 154.7 | 153.9 | 153.2 | 162.9 |
| <b>85.0</b>  | 123.3 | 122.1 | 121.5 | 120.0 | 119.0 | 118.2 | 126.3 |
| <b>87.5</b>  | 101.1 | 100.8 | 100.6 | 99.6  | 98.5  | 98.3  | 100.9 |
| <b>90.0</b>  | 91.9  | 92.0  | 92.0  | 91.8  | 91.8  | 91.8  | 93.5  |
| <b>92.5</b>  | 89.3  | 89.2  | 89.2  | 89.6  | 90.4  | 91.1  | 92.0  |
| <b>95.0</b>  | 90.9  | 90.6  | 90.4  | 91.0  | 92.0  | 93.0  | 94.6  |
| <b>97.5</b>  | 91.3  | 90.9  | 90.9  | 91.4  | 92.6  | 93.4  | 95.5  |
| <b>100.0</b> | 91.5  | 91.2  | 91.2  | 91.7  | 92.4  | 93.1  | 95.0  |
| <b>102.5</b> | 91.5  | 91.3  | 91.3  | 91.6  | 92.4  | 93.1  | 94.8  |
| <b>105.0</b> | 91.5  | 91.3  | 91.6  | 91.8  | 92.5  | 93.5  | 95.1  |
| <b>107.5</b> | 92.1  | 91.7  | 92.0  | 92.2  | 92.9  | 93.8  | 95.5  |
| <b>110.0</b> | 93.3  | 92.5  | 92.7  | 92.7  | 93.4  | 94.5  | 95.9  |
| <b>112.5</b> | 94.4  | 93.7  | 93.7  | 93.5  | 94.1  | 95.4  | 96.8  |
| <b>115.0</b> | 95.8  | 95.1  | 94.9  | 94.6  | 94.9  | 96.5  | 97.9  |
| <b>117.5</b> | 97.4  | 96.5  | 96.1  | 95.8  | 95.9  | 97.6  | 99.2  |
| <b>120.0</b> | 99.2  | 98.0  | 97.4  | 97.1  | 97.1  | 99.0  | 100.7 |
| <b>122.5</b> | 100.9 | 99.4  | 98.8  | 98.5  | 98.7  | 100.4 | 101.8 |
| <b>125.0</b> | 102.3 | 100.8 | 100.1 | 99.8  | 100.0 | 101.7 | 103.2 |
| <b>127.5</b> | 103.7 | 102.1 | 101.3 | 101.0 | 101.4 | 102.7 | 104.5 |
| <b>130.0</b> | 104.4 | 103.0 | 102.0 | 101.6 | 102.0 | 103.1 | 104.8 |
| <b>132.5</b> | 104.4 | 103.0 | 102.2 | 101.7 | 102.4 | 103.6 | 105.1 |
| <b>135.0</b> | 104.1 | 103.1 | 102.4 | 101.8 | 102.6 | 103.3 | 104.2 |
| <b>137.5</b> | 104.5 | 103.2 | 102.6 | 101.4 | 102.9 | 103.5 | 104.3 |
| <b>140.0</b> | 104.9 | 103.7 | 102.9 | 101.6 | 103.4 | 104.0 | 104.7 |
| <b>142.5</b> | 105.0 | 103.7 | 103.1 | 102.6 | 104.1 | 104.4 | 105.2 |
| <b>145.0</b> | 103.9 | 102.7 | 101.7 | 102.2 | 104.4 | 104.6 | 105.6 |
| <b>147.5</b> | 102.3 | 101.3 | 100.1 | 101.2 | 103.7 | 104.6 | 106.0 |
| <b>150.0</b> | 100.2 | 99.6  | 98.8  | 100.0 | 102.7 | 103.8 | 105.8 |
| <b>152.5</b> | 97.1  | 96.6  | 96.2  | 97.6  | 100.6 | 100.9 | 103.5 |
| <b>155.0</b> | 93.6  | 92.7  | 93.0  | 93.9  | 96.9  | 97.0  | 99.9  |
| <b>157.5</b> | 89.5  | 88.6  | 89.4  | 89.9  | 91.9  | 92.3  | 94.7  |
| <b>160.0</b> | 84.9  | 84.2  | 85.0  | 85.3  | 86.6  | 87.3  | 89.3  |
| <b>162.5</b> | 80.0  | 79.9  | 79.2  | 79.8  | 81.4  | 81.4  | 82.8  |
| <b>165.0</b> | 75.2  | 75.1  | 74.5  | 74.7  | 76.0  | 76.9  | 77.9  |
| <b>167.5</b> | 71.1  | 70.3  | 69.4  | 70.2  | 70.8  | 71.5  | 72.9  |
| <b>170.0</b> | 66.7  | 65.4  | 64.9  | 65.1  | 65.6  | 66.3  | 68.1  |
| <b>172.5</b> | 61.0  | 61.2  | 60.4  | 60.3  | 61.0  | 61.0  | 62.5  |
| <b>175.0</b> | 56.5  | 56.4  | 56.6  | 57.2  | 57.3  | 57.0  | 57.5  |
| <b>177.5</b> | 54.2  | 54.5  | 54.7  | 54.8  | 54.4  | 54.3  | 54.4  |
| <b>180.0</b> | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  | 53.7  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CZF3044LAJD2XX\_IES.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 382.69  | N.A.  | 9.50   |
| 0-30    | 827.13  | N.A.  | 20.60  |
| 0-40    | 1379.31 | N.A.  | 34.40  |
| 0-60    | 2522.23 | N.A.  | 62.90  |
| 0-80    | 3267.79 | N.A.  | 81.50  |
| 0-90    | 3410.09 | N.A.  | 85.00  |
| 10-90   | 3312.45 | N.A.  | 82.60  |
| 20-40   | 996.63  | N.A.  | 24.90  |
| 20-50   | 1586.2  | N.A.  | 39.60  |
| 40-70   | 1591.26 | N.A.  | 39.70  |
| 60-80   | 745.56  | N.A.  | 18.60  |
| 70-80   | 297.22  | N.A.  | 7.40   |
| 80-90   | 142.30  | N.A.  | 3.50   |
| 90-110  | 197.45  | N.A.  | 4.90   |
| 90-120  | 292.66  | N.A.  | 7.30   |
| 90-130  | 383.69  | N.A.  | 9.60   |
| 90-150  | 528.96  | N.A.  | 13.20  |
| 90-180  | 600.09  | N.A.  | 15.00  |
| 110-180 | 402.64  | N.A.  | 10.00  |
| 0-180   | 4010.18 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 97.64  |
| 10-20   | 285.05 |
| 20-30   | 444.44 |
| 30-40   | 552.19 |
| 40-50   | 589.58 |
| 50-60   | 553.34 |
| 60-70   | 448.34 |
| 70-80   | 297.22 |
| 80-90   | 142.30 |
| 90-100  | 99.64  |
| 100-110 | 97.81  |
| 110-120 | 95.22  |
| 120-130 | 91.02  |
| 130-140 | 80.36  |
| 140-150 | 64.92  |
| 150-160 | 43.74  |
| 160-170 | 21.67  |
| 170-180 | 5.71   |

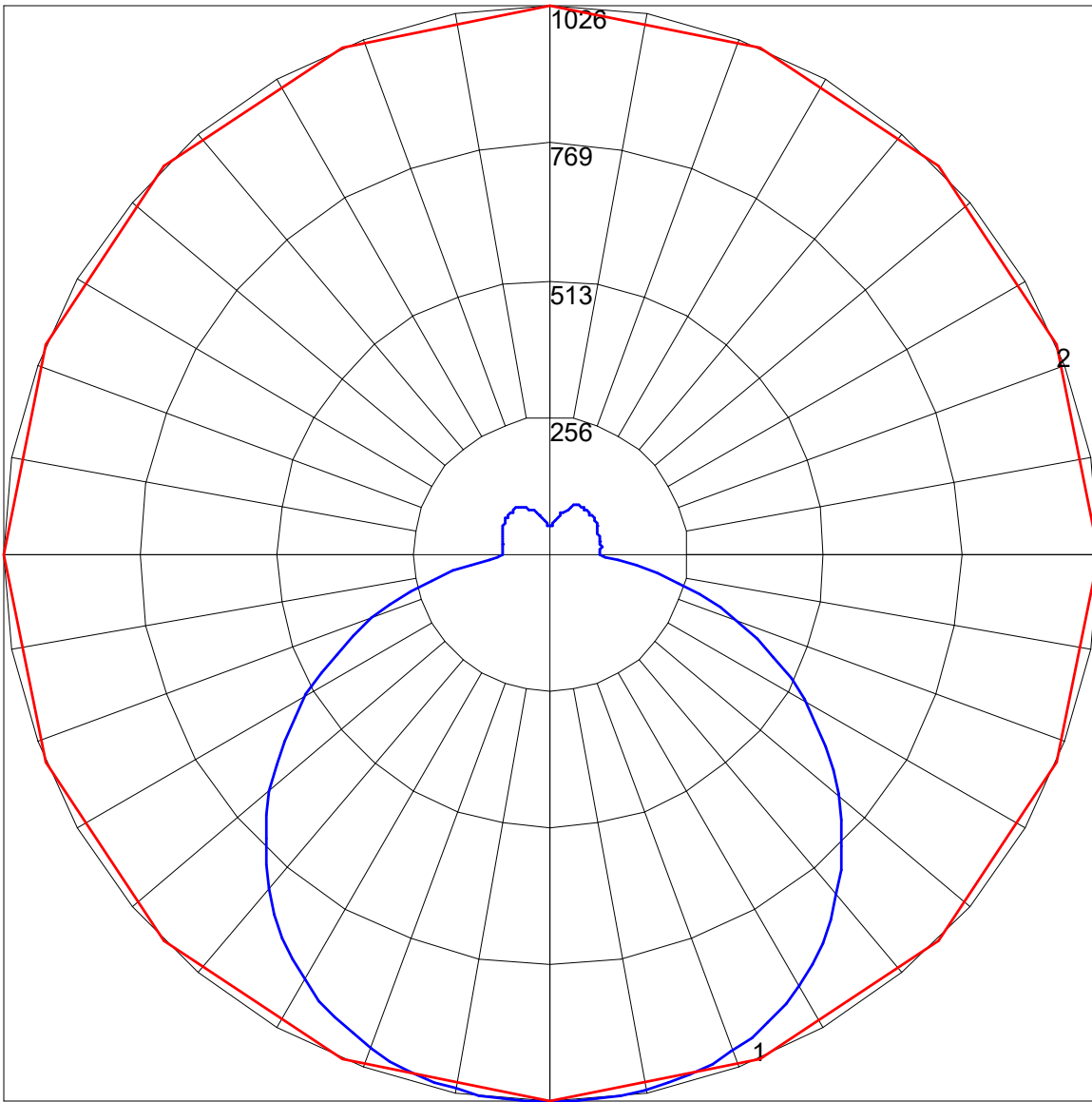
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : CZF3044LAJD2XX\_IES.IES**

**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 |    |
| 0  | 115 | 115 | 115 | 115 | 111 | 111 | 111 | 111 | 103 | 103 | 103 | 95 | 95 | 95 | 88 | 88 | 88 | 85 |
| 1  | 104 | 99  | 94  | 90  | 100 | 95  | 91  | 87  | 88  | 85  | 82  | 82 | 79 | 77 | 76 | 74 | 72 | 69 |
| 2  | 94  | 86  | 79  | 73  | 90  | 82  | 76  | 70  | 76  | 71  | 67  | 71 | 67 | 63 | 66 | 62 | 59 | 56 |
| 3  | 86  | 75  | 66  | 60  | 82  | 72  | 64  | 58  | 67  | 60  | 55  | 62 | 57 | 52 | 58 | 53 | 50 | 47 |
| 4  | 78  | 66  | 57  | 50  | 75  | 64  | 55  | 49  | 59  | 52  | 47  | 55 | 49 | 44 | 51 | 46 | 42 | 40 |
| 5  | 72  | 59  | 49  | 43  | 68  | 57  | 48  | 42  | 53  | 46  | 40  | 49 | 43 | 38 | 46 | 41 | 36 | 34 |
| 6  | 66  | 53  | 43  | 37  | 63  | 51  | 42  | 36  | 47  | 40  | 35  | 44 | 38 | 33 | 41 | 36 | 32 | 29 |
| 7  | 61  | 47  | 39  | 32  | 58  | 46  | 38  | 32  | 43  | 36  | 31  | 40 | 34 | 29 | 38 | 32 | 28 | 26 |
| 8  | 57  | 43  | 35  | 29  | 54  | 42  | 34  | 28  | 39  | 32  | 27  | 37 | 31 | 26 | 35 | 29 | 25 | 23 |
| 9  | 53  | 39  | 31  | 26  | 51  | 38  | 31  | 25  | 36  | 29  | 24  | 34 | 28 | 23 | 32 | 26 | 23 | 21 |
| 10 | 49  | 36  | 28  | 23  | 47  | 35  | 28  | 23  | 33  | 27  | 22  | 31 | 25 | 21 | 30 | 24 | 20 | 19 |

POLAR GRAPH



Maximum Candela = 1025.9 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.)