



IES INDOOR REPORT
PHOTOMETRIC FILENAME : P92222UT8WAJW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-1995
 [TEST] ITL 31195-2x2
 [MANUFAC]PRUDENTIAL LIGHTING
 [LUMCAT]P9222-2UT8-WA-JW
 [LUMINAIRE] 2 X2 FLAT LENSED TROFFER W/FLAT WHT. ACRYLIC LENS
 [LAMP] FBO31T8
 [LAMPCAT]LUMEN RATING = 2850 LMS.
 [BALLAST] STANDARD GE BALLASTS

CHARACTERISTICS

| | |
|-----------------------------|----------------|
| Total Rated Lamp Lumens | 5700 (2 lamps) |
| Total Luminaire Efficiency | 68.9 % |
| CIE Type | Direct |
| Spacing Criteria (0-180) | 1.26 |
| Spacing Criteria (90-270) | 1.40 |
| Spacing Criteria (Diagonal) | 1.40 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 2.00 ft |
| Luminous Width (90-270) | 2.00 ft |
| Luminous Height | 0.00 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3499 | 3968 | 4143 |
| 55 | 2664 | 3117 | 3068 |
| 65 | 2088 | 2010 | 2009 |
| 75 | 1774 | 1413 | 1727 |
| 85 | 1334 | 879 | 577 |

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CANDELA TABULATION

| | <u>0</u> | <u>22.5</u> | <u>45</u> | <u>67.5</u> | <u>90</u> |
|-------------|----------|-------------|-----------|-------------|-----------|
| 0 | 1526.27 | 1526.27 | 1526.27 | 1526.27 | 1526.27 |
| 2.5 | 1529.92 | 1527.3 | 1523.97 | 1523.71 | 1521.09 |
| 5 | 1524.67 | 1521.34 | 1522.05 | 1522.05 | 1521.09 |
| 7.5 | 1519.42 | 1516.8 | 1516.8 | 1521.09 | 1521.09 |
| 10 | 1507.26 | 1507.26 | 1511.55 | 1520.13 | 1522.05 |
| 12.5 | 1493.18 | 1493.89 | 1506.3 | 1516.8 | 1522.05 |
| 15 | 1474.82 | 1481.02 | 1493.89 | 1513.47 | 1517.5 |
| 17.5 | 1453.82 | 1461.7 | 1484.35 | 1506.3 | 1515.84 |
| 20 | 1431.17 | 1441.66 | 1467.71 | 1499.39 | 1507.97 |
| 22.5 | 1404.22 | 1419.01 | 1452.93 | 1490.56 | 1501.06 |
| 25 | 1371.84 | 1390.21 | 1434.56 | 1476.74 | 1490.56 |
| 27.5 | 1335.1 | 1358.72 | 1410.43 | 1457.22 | 1470.53 |
| 30 | 1296.7 | 1326.53 | 1385.66 | 1433.6 | 1445.95 |
| 32.5 | 1251.39 | 1287.87 | 1350.85 | 1399.04 | 1409.47 |
| 35 | 1199.68 | 1240 | 1312.45 | 1351.81 | 1365.63 |
| 37.5 | 1137.66 | 1185.86 | 1257.34 | 1300.99 | 1307.9 |
| 40 | 1073.98 | 1121.22 | 1203.26 | 1235.46 | 1251.2 |
| 42.5 | 997.95 | 1048.77 | 1126.21 | 1159.62 | 1175.36 |
| 45 | 920.19 | 962.88 | 1043.52 | 1073.98 | 1089.73 |
| 47.5 | 832.7 | 867.78 | 945.73 | 976 | 990.78 |
| 50 | 729.92 | 775.94 | 844.16 | 868.74 | 878.27 |
| 52.5 | 651.26 | 694.21 | 757.82 | 769.02 | 774.53 |
| 55 | 568.26 | 617.15 | 665.09 | 676.54 | 654.59 |
| 57.5 | 500.8 | 543.74 | 581.38 | 581.38 | 556.86 |
| 60 | 438.08 | 469.57 | 486.98 | 483.39 | 457.41 |
| 62.5 | 385.66 | 396.35 | 403.97 | 400.45 | 379.65 |
| 65 | 328.19 | 329.86 | 316.03 | 327.94 | 315.78 |
| 67.5 | 280.26 | 273.09 | 246.85 | 270.46 | 264.26 |
| 70 | 238.27 | 230.21 | 194.43 | 224.96 | 227.58 |
| 72.5 | 196.1 | 192.51 | 156.99 | 187.52 | 192.51 |
| 75 | 170.82 | 158.66 | 136 | 152.45 | 166.27 |
| 77.5 | 143.62 | 130.75 | 116.93 | 120.26 | 131.71 |
| 80 | 116.67 | 99.26 | 91.39 | 87.1 | 92.1 |
| 82.5 | 77.31 | 69.44 | 59.01 | 53.76 | 48.51 |
| 85 | 43.26 | 35.58 | 28.48 | 21.31 | 18.69 |
| 87.5 | 6.53 | 10.11 | 6.78 | 7.49 | 4.86 |
| 90 | 0.32 | 0.32 | 0.32 | 0.32 | 0.32 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|--------|---------|-------|-------|
| 0-30 | 1228.56 | 21.6 | 31.3 |
| 0-40 | 2036.58 | 35.7 | 51.9 |
| 0-60 | 3393.88 | 59.5 | 86.4 |
| 0-90 | 3926.22 | 68.9 | 100 |
| 90-120 | 0 | 0 | 0 |
| 90-130 | 0 | 0 | 0 |
| 90-150 | 0 | 0 | 0 |
| 90-180 | 0 | 0 | 0 |
| 0-180 | 3926.22 | 68.9 | 100 |

Total Luminaire Efficiency = 68.9%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 145.04 |
| 10-20 | 423.01 |
| 20-30 | 660.51 |
| 30-40 | 808.01 |
| 40-50 | 781.1 |
| 50-60 | 576.21 |
| 60-70 | 328.86 |
| 70-80 | 163.84 |
| 80-90 | 39.64 |
| 90-100 | 0 |
| 100-110 | 0 |
| 110-120 | 0 |
| 120-130 | 0 |
| 130-140 | 0 |
| 140-150 | 0 |
| 150-160 | 0 |
| 160-170 | 0 |
| 170-180 | 0 |

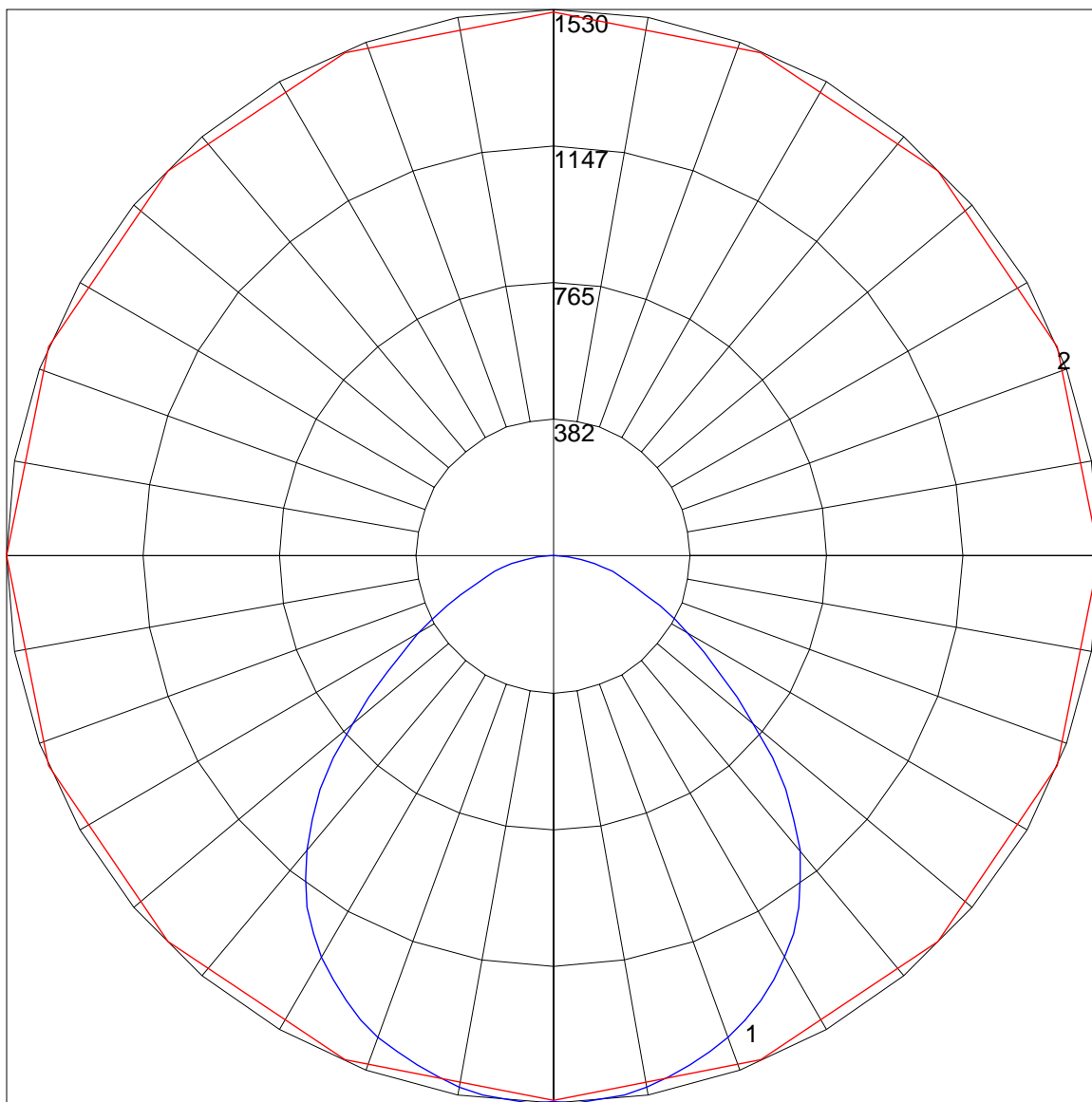
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 82 | 82 | 82 | 82 | 80 | 80 | 80 | 80 | 77 | 77 | 77 | 73 | 73 | 73 | 70 | 70 | 70 | 69 |
| 1 | 76 | 73 | 70 | 68 | 74 | 71 | 69 | 67 | 68 | 66 | 65 | 66 | 64 | 63 | 63 | 62 | 61 | 59 |
| 2 | 70 | 64 | 60 | 57 | 68 | 63 | 59 | 56 | 61 | 57 | 55 | 58 | 56 | 53 | 56 | 54 | 52 | 51 |
| 3 | 64 | 57 | 52 | 48 | 62 | 56 | 51 | 47 | 54 | 50 | 47 | 52 | 49 | 46 | 50 | 48 | 45 | 44 |
| 4 | 59 | 51 | 45 | 41 | 57 | 50 | 45 | 41 | 48 | 44 | 40 | 47 | 43 | 40 | 45 | 42 | 39 | 38 |
| 5 | 54 | 46 | 40 | 36 | 53 | 45 | 40 | 35 | 44 | 39 | 35 | 42 | 38 | 35 | 41 | 37 | 34 | 33 |
| 6 | 50 | 41 | 36 | 31 | 49 | 41 | 35 | 31 | 40 | 35 | 31 | 38 | 34 | 31 | 37 | 33 | 30 | 29 |
| 7 | 47 | 38 | 32 | 28 | 45 | 37 | 32 | 28 | 36 | 31 | 28 | 35 | 31 | 27 | 34 | 30 | 27 | 26 |
| 8 | 43 | 34 | 29 | 25 | 42 | 34 | 29 | 25 | 33 | 28 | 25 | 32 | 28 | 25 | 31 | 27 | 24 | 23 |
| 9 | 41 | 32 | 26 | 22 | 40 | 31 | 26 | 22 | 30 | 26 | 22 | 30 | 25 | 22 | 29 | 25 | 22 | 21 |
| 10 | 38 | 29 | 24 | 20 | 37 | 29 | 24 | 20 | 28 | 23 | 20 | 28 | 23 | 20 | 27 | 23 | 20 | 19 |

POLAR GRAPH



Maximum Candela = 1529.92 Located At Horizontal Angle = 0, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)