



IES INDOOR REPORT

PHOTOMETRIC FILENAME : P9018-TU-LO-FWA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST]359807
 [TESTLAB]
 [ISSUE DATE]
 [MANUFAC]Prudential Lighting Group
 [LUMCAT]P9018-TU-LO-VWA-D1
 [LUMINAIRE]N/A
 [LAMP]N/A
 [OTHER]120.0V 0.3326A 20W PF=0.991

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 971 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 51 |
| Total Luminaire Watts | 19 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.24 |
| Spacing Criterion (90-270) | 1.24 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Circular |
| Luminous Length (0-180) | 0.00 ft |
| Luminous Width (90-270) | 1.42 ft (Diameter) |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2155 | 2155 | 2155 |
| 55 | 2052 | 2052 | 2052 |
| 65 | 1909 | 1909 | 1909 |
| 75 | 1675 | 1675 | 1675 |
| 85 | 1380 | 1380 | 1380 |

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CANDELA TABULATION

| | |
|------|----------|
| | <u>0</u> |
| 0.0 | 349.305 |
| 2.5 | 349.085 |
| 5.0 | 347.985 |
| 7.5 | 345.950 |
| 10.0 | 342.815 |
| 12.5 | 338.855 |
| 15.0 | 334.125 |
| 17.5 | 328.570 |
| 20.0 | 322.190 |
| 22.5 | 315.040 |
| 25.0 | 307.285 |
| 27.5 | 298.705 |
| 30.0 | 289.630 |
| 32.5 | 279.950 |
| 35.0 | 269.775 |
| 37.5 | 259.105 |
| 40.0 | 247.940 |
| 42.5 | 236.335 |
| 45.0 | 224.400 |
| 47.5 | 212.135 |
| 50.0 | 199.485 |
| 52.5 | 186.560 |
| 55.0 | 173.360 |
| 57.5 | 159.995 |
| 60.0 | 146.520 |
| 62.5 | 132.770 |
| 65.0 | 118.800 |
| 67.5 | 104.775 |
| 70.0 | 90.915 |
| 72.5 | 77.275 |
| 75.0 | 63.855 |
| 77.5 | 50.985 |
| 80.0 | 38.830 |
| 82.5 | 27.720 |
| 85.0 | 17.710 |
| 87.5 | 8.580 |
| 90.0 | 1.045 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|--------|-------|--------|
| 0-20 | 127.30 | N.A. | 13.10 |
| 0-30 | 268.83 | N.A. | 27.70 |
| 0-40 | 437.56 | N.A. | 45.10 |
| 0-60 | 765.60 | N.A. | 78.80 |
| 0-80 | 950.90 | N.A. | 97.90 |
| 0-90 | 971.02 | N.A. | 100.00 |
| 10-90 | 937.97 | N.A. | 96.60 |
| 20-40 | 310.26 | N.A. | 32.00 |
| 20-50 | 483.34 | N.A. | 49.80 |
| 40-70 | 445.57 | N.A. | 45.90 |
| 60-80 | 185.30 | N.A. | 19.10 |
| 70-80 | 67.77 | N.A. | 7.00 |
| 80-90 | 20.12 | N.A. | 2.10 |
| 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 | 971.02 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 33.05 |
| 10-20 | 94.24 |
| 20-30 | 141.54 |
| 30-40 | 168.73 |
| 40-50 | 173.08 |
| 50-60 | 154.96 |
| 60-70 | 117.54 |
| 70-80 | 67.77 |
| 80-90 | 20.12 |
| 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 |

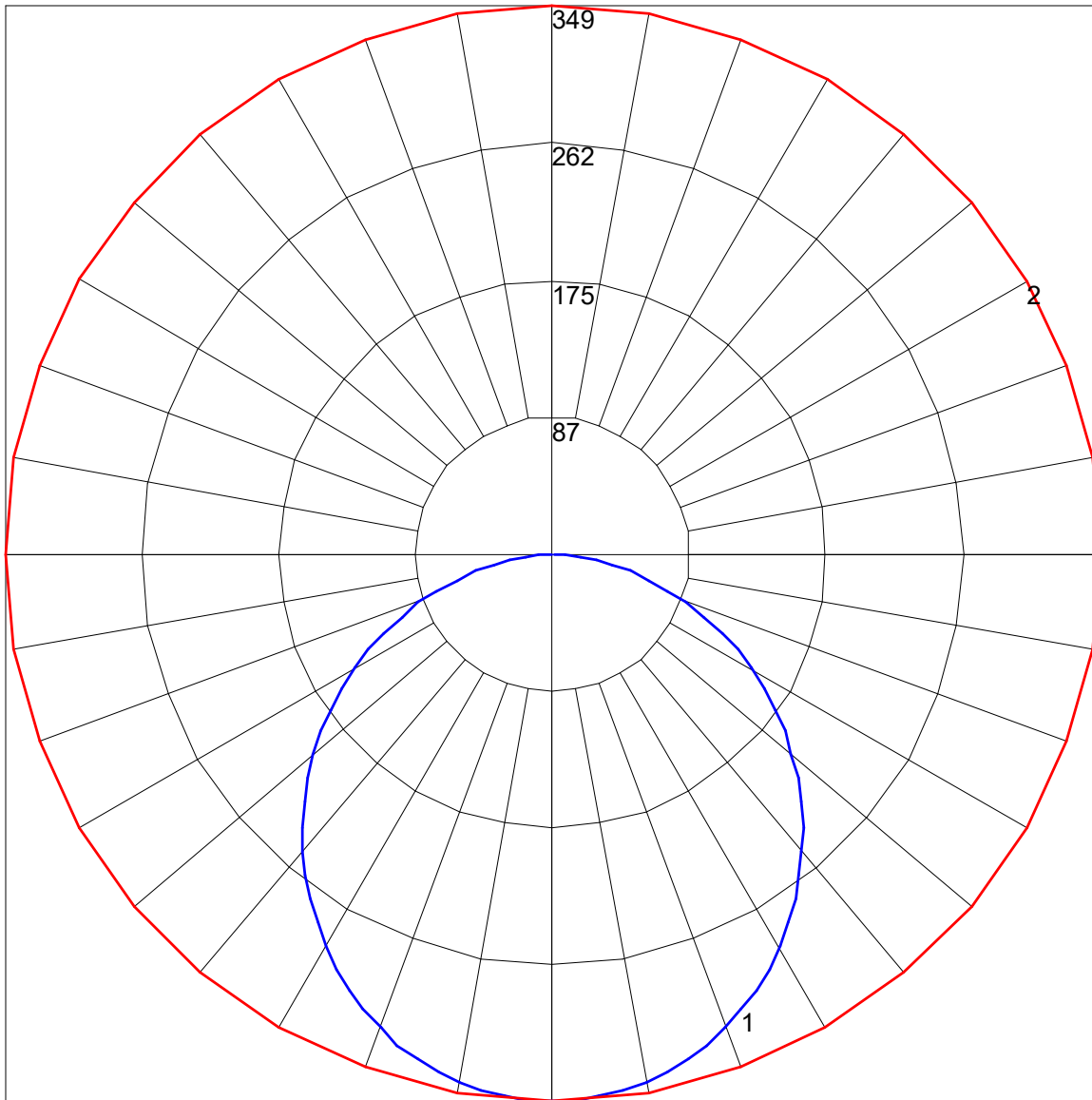
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 88 | 86 | 84 |
| 2 | 99 | 90 | 84 | 78 | 96 | 89 | 82 | 77 | 85 | 80 | 75 | 82 | 77 | 73 | 79 | 75 | 72 | 70 |
| 3 | 90 | 79 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | 64 | 58 | 53 | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | 58 | 51 | 46 | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 43 | 36 | 63 | 51 | 42 | 36 | 49 | 41 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | 44 | 37 | 32 | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 27 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

POLAR GRAPH



Maximum Candela = 349.305 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.)