



IES INDOOR REPORT

PHOTOMETRIC FILENAME : ZES-44-LED4MO-SAL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST]31978

[TESTLAB]LIGHTING SCIENCES, INC.

[ISSUE DATE] 8/ 8/2013

[MANUFACTURER]PRUDENTIAL LIGHTING - LED PENDANT LUMINAIRE

[LUMEN CATEGORY]ZES

[LUMINAIRE]WITH WHITE INTERIOR AND FROSTED WRAPPED PLASTIC LENSES

[LAMP]

[OTHER]FO

CHARACTERISTICS

| | |
|---------------------------------|---------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 9981 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 113 |
| Total Luminaire Watts | 88 |
| Ballast Factor | 1.00 |
| CIE Type | General Diffuse |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular w/Sides |
| Luminous Length (0-180) | 2.23 ft |
| Luminous Width (90-270) | 2.23 ft |
| Luminous Height | 0.14 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2238 | 2338 | 2230 |
| 55 | 2704 | 2791 | 2712 |
| 65 | 3608 | 3568 | 3621 |
| 75 | 5546 | 5168 | 5529 |
| 85 | 11618 | 9764 | 11493 |

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CANDELA TABULATION

| | 0.0 | 22.5 | 45.0 | 67.5 | 90.0 |
|--------------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 570.78 | 570.78 | 570.78 | 570.78 | 570.78 |
| 2.5 | 574.38 | 574.92 | 570.24 | 570.24 | 573.84 |
| 5.0 | 583.02 | 583.20 | 578.34 | 577.62 | 581.22 |
| 7.5 | 595.26 | 595.08 | 591.30 | 589.50 | 592.56 |
| 10.0 | 610.20 | 610.56 | 607.86 | 604.80 | 606.60 |
| 12.5 | 627.12 | 628.56 | 626.58 | 622.26 | 622.26 |
| 15.0 | 645.30 | 648.36 | 647.28 | 641.70 | 639.90 |
| 17.5 | 664.56 | 669.24 | 669.06 | 662.04 | 658.44 |
| 20.0 | 683.64 | 689.94 | 691.20 | 682.38 | 676.62 |
| 22.5 | 702.18 | 710.46 | 713.16 | 702.72 | 694.08 |
| 25.0 | 719.46 | 729.72 | 734.40 | 722.16 | 710.64 |
| 27.5 | 734.94 | 747.72 | 754.56 | 740.52 | 725.76 |
| 30.0 | 748.26 | 763.74 | 773.10 | 756.90 | 739.08 |
| 32.5 | 758.52 | 777.24 | 789.30 | 770.94 | 749.88 |
| 35.0 | 766.44 | 788.22 | 803.16 | 782.82 | 758.34 |
| 37.5 | 771.84 | 796.86 | 814.50 | 792.36 | 765.00 |
| 40.0 | 775.08 | 803.16 | 822.96 | 799.56 | 769.50 |
| 42.5 | 776.88 | 807.30 | 828.90 | 804.96 | 772.74 |
| 45.0 | 777.60 | 809.64 | 832.50 | 808.74 | 775.08 |
| 47.5 | 777.96 | 811.08 | 834.84 | 811.44 | 776.88 |
| 50.0 | 778.86 | 812.16 | 835.56 | 813.60 | 779.22 |
| 52.5 | 779.94 | 812.70 | 835.20 | 815.04 | 781.56 |
| 55.0 | 781.56 | 813.60 | 834.12 | 816.48 | 783.90 |
| 57.5 | 784.44 | 815.04 | 832.86 | 818.10 | 787.68 |
| 60.0 | 788.40 | 817.56 | 831.60 | 820.98 | 792.00 |
| 62.5 | 793.80 | 820.98 | 830.88 | 823.86 | 797.40 |
| 65.0 | 800.10 | 825.30 | 830.16 | 827.28 | 802.98 |
| 67.5 | 806.58 | 829.62 | 829.08 | 830.34 | 808.38 |
| 70.0 | 813.06 | 833.40 | 828.18 | 832.86 | 813.42 |
| 72.5 | 817.20 | 836.10 | 826.38 | 833.76 | 816.12 |
| 75.0 | 819.36 | 837.00 | 823.50 | 832.68 | 816.84 |
| 77.5 | 819.00 | 835.74 | 818.64 | 829.62 | 815.04 |
| 80.0 | 816.84 | 832.68 | 812.16 | 824.40 | 810.90 |
| 82.5 | 811.62 | 826.74 | 803.52 | 816.84 | 804.42 |
| 85.0 | 804.24 | 818.46 | 792.90 | 807.30 | 795.60 |
| 87.5 | 795.60 | 808.20 | 781.38 | 796.50 | 785.52 |
| 90.0 | 783.72 | 795.78 | 774.54 | 795.06 | 783.90 |
| 92.5 | 782.64 | 796.14 | 783.36 | 809.82 | 798.84 |
| 95.0 | 791.64 | 805.68 | 794.16 | 820.44 | 808.20 |
| 97.5 | 798.84 | 813.96 | 804.60 | 829.44 | 816.30 |
| 100.0 | 805.50 | 821.34 | 813.96 | 836.64 | 822.96 |
| 102.5 | 810.90 | 828.00 | 822.42 | 842.58 | 828.18 |
| 105.0 | 813.78 | 831.78 | 828.18 | 845.82 | 830.34 |
| 107.5 | 813.60 | 833.04 | 831.96 | 846.18 | 829.44 |
| 110.0 | 810.90 | 832.14 | 834.12 | 844.38 | 825.48 |
| 112.5 | 806.58 | 829.80 | 835.02 | 840.96 | 819.90 |
| 115.0 | 801.18 | 826.56 | 834.84 | 836.46 | 812.88 |
| 117.5 | 795.42 | 822.96 | 834.84 | 831.42 | 805.68 |
| 120.0 | 789.48 | 819.00 | 834.84 | 826.56 | 798.48 |
| 122.5 | 784.26 | 815.76 | 835.02 | 822.42 | 792.00 |
| 125.0 | 780.30 | 813.42 | 835.38 | 819.00 | 786.78 |
| 127.5 | 777.24 | 810.90 | 835.02 | 816.12 | 782.64 |
| 130.0 | 775.08 | 808.74 | 833.94 | 813.96 | 779.76 |
| 132.5 | 774.00 | 806.76 | 832.50 | 812.16 | 778.32 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|--------|--------|--------|--------|--------|
| 135.0 | 772.56 | 804.60 | 829.80 | 809.64 | 776.70 |
| 137.5 | 770.58 | 801.00 | 825.48 | 806.04 | 774.72 |
| 140.0 | 767.70 | 795.96 | 819.18 | 801.00 | 771.66 |
| 142.5 | 763.56 | 789.30 | 810.54 | 794.16 | 767.52 |
| 145.0 | 757.44 | 780.30 | 799.38 | 784.98 | 761.40 |
| 147.5 | 748.44 | 768.78 | 786.06 | 773.10 | 752.22 |
| 150.0 | 736.92 | 753.48 | 769.50 | 759.24 | 740.52 |
| 152.5 | 724.14 | 736.38 | 748.98 | 742.86 | 727.56 |
| 155.0 | 710.10 | 719.28 | 727.56 | 723.24 | 712.62 |
| 157.5 | 693.36 | 702.36 | 709.02 | 703.80 | 695.70 |
| 160.0 | 676.62 | 683.64 | 690.30 | 686.70 | 678.60 |
| 162.5 | 659.70 | 663.12 | 668.16 | 666.90 | 661.32 |
| 165.0 | 641.70 | 643.32 | 646.92 | 646.56 | 642.60 |
| 167.5 | 624.42 | 624.60 | 626.76 | 627.48 | 624.96 |
| 170.0 | 608.40 | 607.50 | 608.40 | 609.84 | 608.76 |
| 172.5 | 594.90 | 593.10 | 592.74 | 594.90 | 594.90 |
| 175.0 | 583.56 | 581.94 | 580.50 | 583.38 | 583.56 |
| 177.5 | 576.00 | 574.56 | 573.48 | 576.18 | 576.36 |
| 180.0 | 573.30 | 573.30 | 573.30 | 573.30 | 573.30 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 240.46 | N.A. | 2.40 |
| 0-30 | 576.73 | N.A. | 5.80 |
| 0-40 | 1068.71 | N.A. | 10.70 |
| 0-60 | 2421.67 | N.A. | 24.30 |
| 0-80 | 4110.81 | N.A. | 41.20 |
| 0-90 | 4988.15 | N.A. | 50.00 |
| 10-90 | 4931.87 | N.A. | 49.40 |
| 20-40 | 828.26 | N.A. | 8.30 |
| 20-50 | 1452.62 | N.A. | 14.60 |
| 40-70 | 2167.98 | N.A. | 21.70 |
| 60-80 | 1689.14 | N.A. | 16.90 |
| 70-80 | 874.12 | N.A. | 8.80 |
| 80-90 | 877.34 | N.A. | 8.80 |
| 90-110 | 1755.88 | N.A. | 17.60 |
| 90-120 | 2575.83 | N.A. | 25.80 |
| 90-130 | 3305.36 | N.A. | 33.10 |
| 90-150 | 4417.93 | N.A. | 44.30 |
| 90-180 | 4992.8 | N.A. | 50.00 |
| 110-180 | 3236.92 | N.A. | 32.40 |
| 0-180 | 9980.95 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 56.28 |
| 10-20 | 184.18 |
| 20-30 | 336.27 |
| 30-40 | 491.98 |
| 40-50 | 624.37 |
| 50-60 | 728.59 |
| 60-70 | 815.02 |
| 70-80 | 874.12 |
| 80-90 | 877.34 |
| 90-100 | 877.82 |
| 100-110 | 878.07 |
| 110-120 | 819.95 |
| 120-130 | 729.53 |
| 130-140 | 622.65 |
| 140-150 | 489.92 |
| 150-160 | 334.37 |
| 160-170 | 184.07 |
| 170-180 | 56.44 |

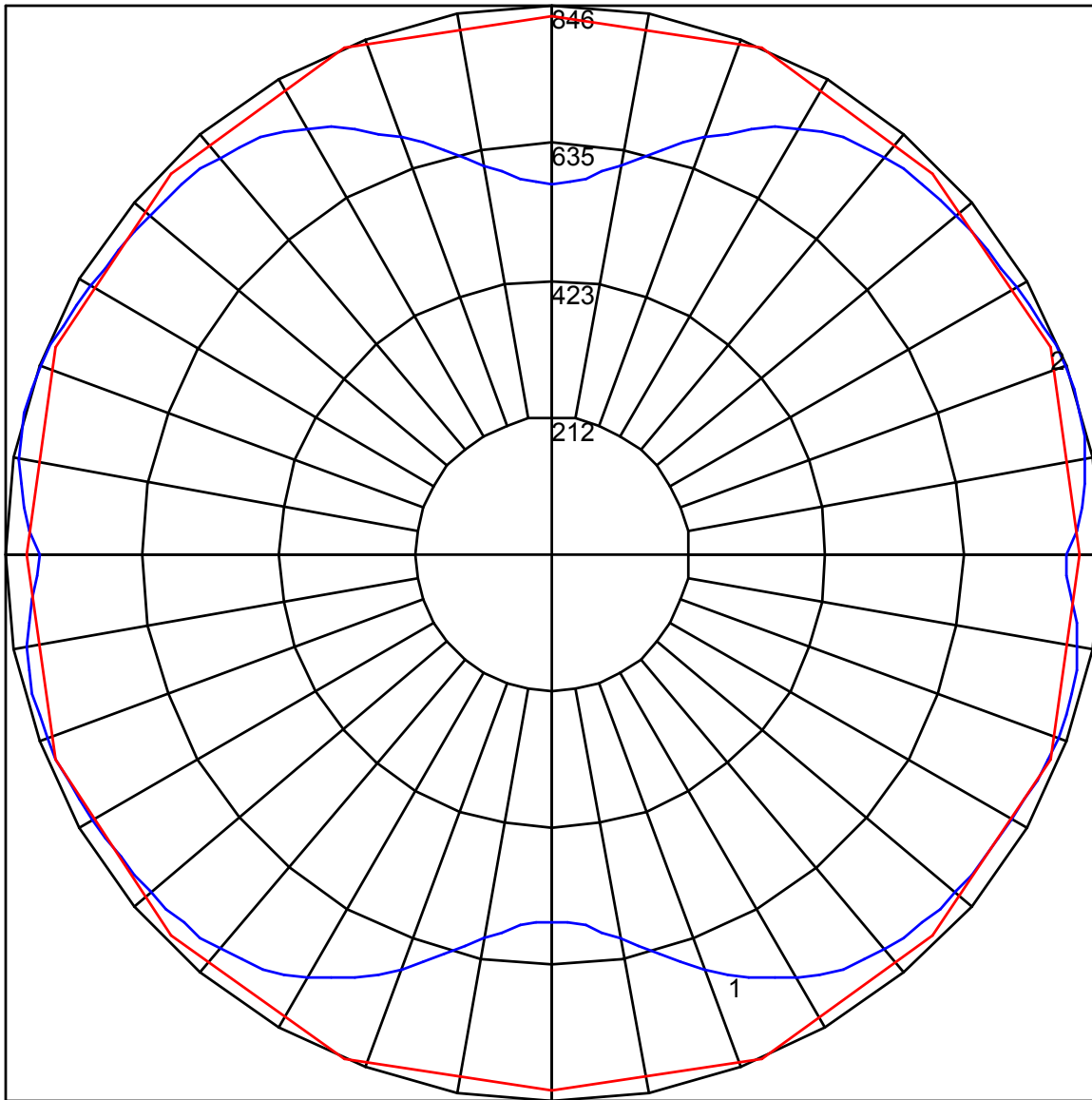
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 |
| 1 | 93 | 87 | 82 | 77 | 85 | 80 | 75 | 71 | 67 | 63 | 59 | 54 | 51 | 49 | 43 | 41 | 39 | 33 |
| 2 | 83 | 74 | 66 | 59 | 76 | 68 | 61 | 55 | 56 | 50 | 46 | 45 | 41 | 37 | 35 | 32 | 29 | 24 |
| 3 | 75 | 63 | 55 | 47 | 68 | 58 | 50 | 44 | 48 | 42 | 37 | 39 | 34 | 30 | 30 | 26 | 23 | 19 |
| 4 | 68 | 55 | 46 | 39 | 62 | 51 | 42 | 36 | 42 | 35 | 30 | 34 | 29 | 24 | 26 | 22 | 19 | 15 |
| 5 | 62 | 49 | 39 | 33 | 56 | 45 | 36 | 30 | 37 | 30 | 25 | 30 | 24 | 20 | 23 | 19 | 16 | 12 |
| 6 | 57 | 43 | 34 | 28 | 52 | 40 | 31 | 26 | 33 | 26 | 21 | 26 | 21 | 17 | 20 | 16 | 13 | 10 |
| 7 | 52 | 39 | 30 | 24 | 48 | 36 | 28 | 22 | 30 | 23 | 18 | 24 | 19 | 15 | 18 | 15 | 12 | 9 |
| 8 | 48 | 35 | 26 | 21 | 44 | 32 | 24 | 19 | 27 | 20 | 16 | 22 | 17 | 13 | 17 | 13 | 10 | 8 |
| 9 | 45 | 32 | 24 | 18 | 41 | 29 | 22 | 17 | 24 | 18 | 14 | 20 | 15 | 11 | 15 | 12 | 9 | 7 |
| 10 | 42 | 29 | 21 | 16 | 38 | 27 | 20 | 15 | 22 | 17 | 13 | 18 | 13 | 10 | 14 | 11 | 8 | 6 |

POLAR GRAPH



Maximum Candela = 846.18 Located At Horizontal Angle = 67.5, Vertical Angle = 107.5
1 - Vertical Plane Through Horizontal Angles (67.5 - 247.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (107.5) (Through Max. Cd.)