



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AU-LED-SS-NW-UE-AC16SA.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-5555
[TESTLAB]LSI INDUSTRIES
[ISSUE DATE]05/15/14
[TEST DATE]05/15/14
[MANUFACTURER]LSI INDUSTRIES
[LUMEN CATEGORY]AU-LED-SS-NW-UE-AC16SA
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[ABSOLUTE LUMENS]5751

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 5751 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 98 |
| Total Luminaire Watts | 58.7 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Direct |
| Spacing Criterion (0-180) | 1.54 |
| Spacing Criterion (90-270) | 1.54 |
| Spacing Criterion (Diagonal) | 1.50 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 1.38 ft (Diameter) |
| Luminous Width (90-270) | 1.38 ft (Diameter) |
| Luminous Height | 1.08 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|------------------|---------------|----------------|----------------|
| 45 | 4126 | 4055 | 4085 |
| 55 | 3208 | 3176 | 3176 |
| 65 | 2822 | 2833 | 2784 |
| 75 | 2819 | 2943 | 2814 |
| 85 | 3146 | 3319 | 3113 |

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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 | 946 | 946 | 946 | 946 | 946 |
| 2.5 | 947 | 947 | 945 | 945 | 945 |
| 5.0 | 941 | 941 | 939 | 939 | 943 |
| 7.5 | 948 | 942 | 937 | 936 | 938 |
| 10.0 | 962 | 965 | 954 | 957 | 963 |
| 12.5 | 999 | 992 | 989 | 984 | 987 |
| 15.0 | 1029 | 1031 | 1026 | 1018 | 1021 |
| 17.5 | 1060 | 1056 | 1058 | 1051 | 1054 |
| 20.0 | 1076 | 1063 | 1067 | 1060 | 1073 |
| 22.5 | 1091 | 1072 | 1074 | 1065 | 1070 |
| 25.0 | 1064 | 1040 | 1036 | 1015 | 1018 |
| 27.5 | 1061 | 1057 | 1063 | 1041 | 1052 |
| 30.0 | 1038 | 1012 | 1014 | 1002 | 1019 |
| 32.5 | 1029 | 1002 | 1004 | 980 | 1006 |
| 35.0 | 969 | 940 | 931 | 925 | 944 |
| 37.5 | 946 | 923 | 917 | 915 | 938 |
| 40.0 | 877 | 830 | 845 | 829 | 848 |
| 42.5 | 818 | 807 | 795 | 789 | 810 |
| 45.0 | 807 | 782 | 793 | 775 | 799 |
| 47.5 | 711 | 688 | 687 | 676 | 695 |
| 50.0 | 719 | 706 | 711 | 693 | 708 |
| 52.5 | 655 | 633 | 635 | 629 | 647 |
| 55.0 | 618 | 605 | 612 | 593 | 612 |
| 57.5 | 599 | 586 | 596 | 586 | 595 |
| 60.0 | 558 | 542 | 554 | 535 | 552 |
| 62.5 | 544 | 534 | 547 | 531 | 533 |
| 65.0 | 519 | 506 | 521 | 510 | 512 |
| 67.5 | 508 | 499 | 516 | 496 | 504 |
| 70.0 | 493 | 491 | 508 | 490 | 490 |
| 72.5 | 488 | 485 | 497 | 479 | 485 |
| 75.0 | 478 | 477 | 499 | 480 | 477 |
| 77.5 | 461 | 465 | 483 | 464 | 460 |
| 80.0 | 471 | 480 | 492 | 473 | 467 |
| 82.5 | 455 | 467 | 476 | 462 | 454 |
| 85.0 | 472 | 489 | 498 | 482 | 467 |
| 87.5 | 478 | 494 | 508 | 493 | 474 |
| 90.0 | 444 | 461 | 477 | 456 | 446 |
| 92.5 | 456 | 472 | 495 | 476 | 470 |
| 95.0 | 438 | 454 | 471 | 458 | 441 |
| 97.5 | 425 | 444 | 456 | 443 | 433 |
| 100.0 | 411 | 430 | 442 | 434 | 411 |
| 102.5 | 387 | 406 | 420 | 406 | 385 |
| 105.0 | 384 | 408 | 421 | 412 | 395 |
| 107.5 | 359 | 384 | 402 | 391 | 370 |
| 110.0 | 340 | 361 | 374 | 361 | 340 |
| 112.5 | 330 | 344 | 355 | 345 | 326 |
| 115.0 | 307 | 322 | 337 | 325 | 307 |
| 117.5 | 281 | 293 | 309 | 298 | 282 |
| 120.0 | 262 | 274 | 287 | 277 | 271 |
| 122.5 | 243 | 254 | 272 | 260 | 245 |
| 125.0 | 219 | 228 | 245 | 230 | 219 |
| 127.5 | 195 | 205 | 219 | 206 | 198 |
| 130.0 | 174 | 182 | 196 | 183 | 174 |
| 132.5 | 151 | 161 | 171 | 159 | 153 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-----|-----|-----|-----|-----|
| 135.0 | 132 | 139 | 150 | 138 | 130 |
| 137.5 | 114 | 118 | 128 | 118 | 111 |
| 140.0 | 94 | 98 | 104 | 97 | 93 |
| 142.5 | 78 | 79 | 82 | 80 | 74 |
| 145.0 | 62 | 63 | 64 | 62 | 60 |
| 147.5 | 46 | 46 | 46 | 45 | 44 |
| 150.0 | 32 | 32 | 31 | 30 | 31 |
| 152.5 | 24 | 23 | 23 | 23 | 22 |
| 155.0 | 18 | 18 | 17 | 17 | 17 |
| 157.5 | 14 | 13 | 13 | 13 | 13 |
| 160.0 | 12 | 12 | 11 | 12 | 12 |
| 162.5 | 12 | 11 | 11 | 11 | 11 |
| 165.0 | 11 | 11 | 10 | 11 | 11 |
| 167.5 | 10 | 10 | 10 | 10 | 11 |
| 170.0 | 9 | 9 | 9 | 9 | 10 |
| 172.5 | 8 | 8 | 7 | 8 | 8 |
| 175.0 | 6 | 6 | 6 | 6 | 6 |
| 177.5 | 4 | 4 | 4 | 4 | 4 |
| 180.0 | 2 | 2 | 2 | 2 | 2 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 381.24 | N.A. | 6.60 |
| 0-30 | 866.66 | N.A. | 15.10 |
| 0-40 | 1460.04 | N.A. | 25.40 |
| 0-60 | 2599.86 | N.A. | 45.20 |
| 0-80 | 3623.69 | N.A. | 63.00 |
| 0-90 | 4145.06 | N.A. | 72.10 |
| 10-90 | 4054.85 | N.A. | 70.50 |
| 20-40 | 1078.81 | N.A. | 18.80 |
| 20-50 | 1667.85 | N.A. | 29.00 |
| 40-70 | 1654.57 | N.A. | 28.80 |
| 60-80 | 1023.83 | N.A. | 17.80 |
| 70-80 | 509.07 | N.A. | 8.90 |
| 80-90 | 521.38 | N.A. | 9.10 |
| 90-110 | 917.57 | N.A. | 16.00 |
| 90-120 | 1235.44 | N.A. | 21.50 |
| 90-130 | 1443.63 | N.A. | 25.10 |
| 90-150 | 1593.39 | N.A. | 27.70 |
| 90-180 | 1606.03 | N.A. | 27.90 |
| 110-180 | 688.46 | N.A. | 12.00 |
| 0-180 | 5751.09 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 90.21 |
| 10-20 | 291.02 |
| 20-30 | 485.43 |
| 30-40 | 593.38 |
| 40-50 | 589.04 |
| 50-60 | 550.77 |
| 60-70 | 514.76 |
| 70-80 | 509.07 |
| 80-90 | 521.38 |
| 90-100 | 496.39 |
| 100-110 | 421.18 |
| 110-120 | 317.87 |
| 120-130 | 208.19 |
| 130-140 | 109.38 |
| 140-150 | 40.38 |
| 150-160 | 8.94 |
| 160-170 | 3.04 |
| 170-180 | 0.66 |

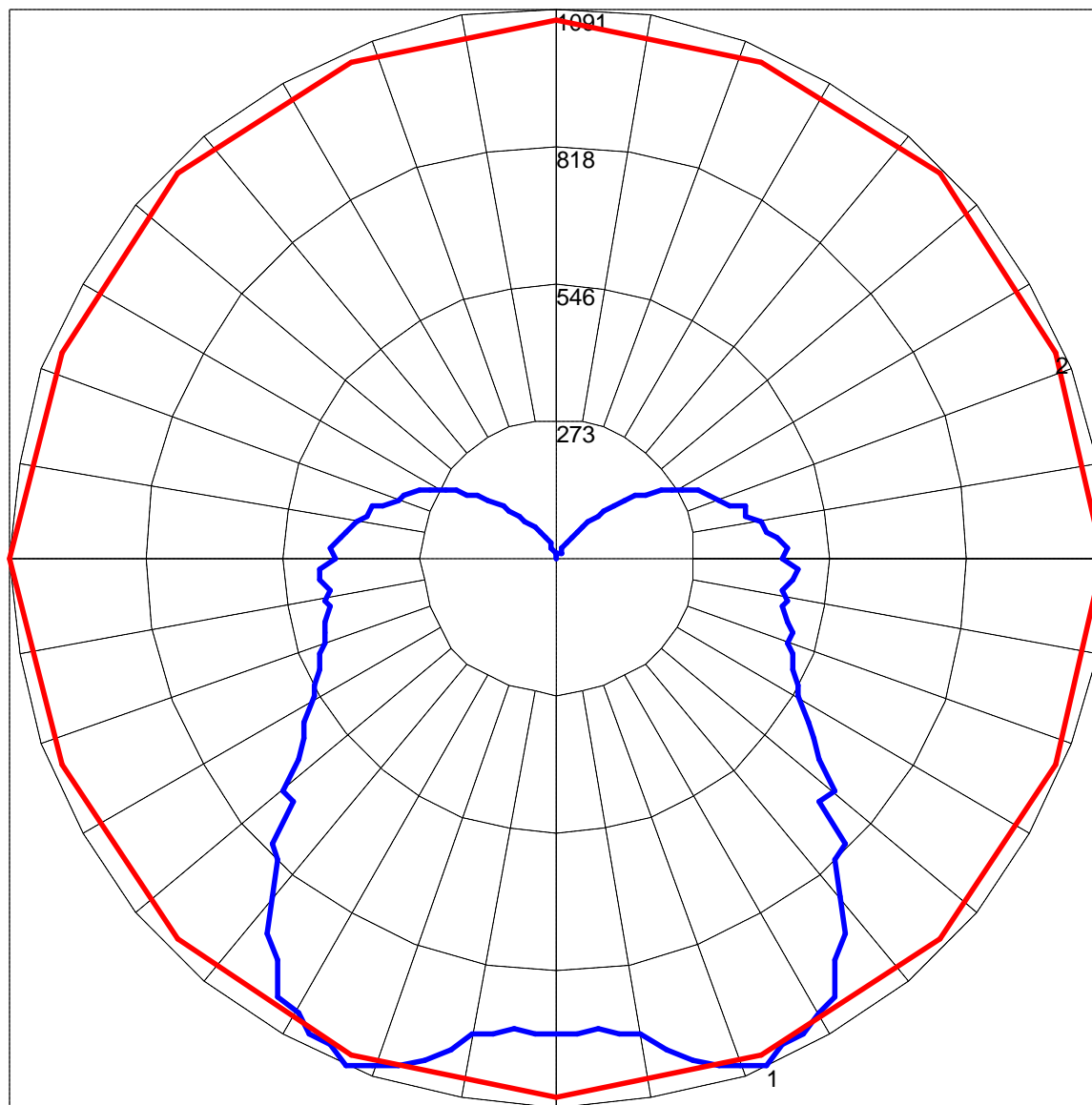
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 112 | 112 | 112 | 112 | 107 | 107 | 107 | 107 | 96 | 96 | 96 | 86 | 86 | 86 | 76 | 76 | 76 | 72 |
| 1 | 99 | 93 | 87 | 82 | 93 | 88 | 83 | 78 | 78 | 74 | 71 | 70 | 66 | 64 | 62 | 59 | 57 | 53 |
| 2 | 89 | 79 | 72 | 65 | 83 | 75 | 68 | 62 | 67 | 61 | 56 | 59 | 55 | 51 | 52 | 49 | 46 | 42 |
| 3 | 81 | 69 | 60 | 53 | 76 | 65 | 57 | 51 | 58 | 52 | 46 | 52 | 46 | 42 | 46 | 41 | 38 | 34 |
| 4 | 73 | 61 | 51 | 44 | 69 | 57 | 49 | 42 | 51 | 44 | 39 | 46 | 40 | 35 | 40 | 36 | 32 | 29 |
| 5 | 67 | 54 | 45 | 38 | 63 | 51 | 43 | 36 | 46 | 39 | 33 | 41 | 35 | 30 | 36 | 31 | 28 | 25 |
| 6 | 62 | 48 | 39 | 33 | 58 | 46 | 37 | 31 | 41 | 34 | 29 | 37 | 31 | 26 | 33 | 28 | 24 | 21 |
| 7 | 57 | 44 | 35 | 28 | 54 | 41 | 33 | 27 | 37 | 30 | 25 | 34 | 28 | 23 | 30 | 25 | 21 | 19 |
| 8 | 53 | 40 | 31 | 25 | 50 | 38 | 30 | 24 | 34 | 27 | 22 | 31 | 25 | 21 | 27 | 23 | 19 | 17 |
| 9 | 50 | 36 | 28 | 22 | 47 | 34 | 27 | 22 | 31 | 25 | 20 | 28 | 23 | 18 | 25 | 21 | 17 | 15 |
| 10 | 46 | 33 | 25 | 20 | 44 | 32 | 24 | 19 | 29 | 22 | 18 | 26 | 21 | 17 | 23 | 19 | 15 | 13 |

POLAR GRAPH



Maximum Candela = 1091 Located At Horizontal Angle = 0, Vertical Angle = 22.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (22.5) (Through Max. Cd.)