



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-24L-S-850-R22AW.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12707
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUEDATE] 05/25/21
 [TESTDATE] 04/15/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] AUL-24L-S-850-R22AW
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Interior
 [SEARCH_COLORTEMP] 5000

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 24051 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 123 |
| Total Luminaire Watts | 195 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.32 |
| Spacing Criterion (90-270) | 1.32 |
| Spacing Criterion (Diagonal) | 1.42 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 1.83 ft (Diameter) |
| Luminous Width (90-270) | 1.83 ft (Diameter) |
| Luminous Height | 0.67 ft |



AUL R22

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 26990 | 26994 | 26691 |
| 55 | 14147 | 14087 | 14053 |
| 65 | 5354 | 5369 | 5398 |
| 75 | 4379 | 4362 | 4374 |
| 85 | 2340 | 2347 | 2399 |

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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 | 9651 | 9651 | 9651 | 9651 | 9651 |
| 2.5 | 9667 | 9668 | 9674 | 9678 | 9674 |
| 5.0 | 9708 | 9709 | 9719 | 9719 | 9711 |
| 7.5 | 9736 | 9737 | 9744 | 9741 | 9741 |
| 10.0 | 9740 | 9744 | 9754 | 9752 | 9749 |
| 12.5 | 9693 | 9705 | 9707 | 9718 | 9715 |
| 15.0 | 9594 | 9601 | 9605 | 9605 | 9605 |
| 17.5 | 9470 | 9467 | 9469 | 9479 | 9484 |
| 20.0 | 9323 | 9310 | 9313 | 9338 | 9329 |
| 22.5 | 9136 | 9101 | 9113 | 9136 | 9115 |
| 25.0 | 8935 | 8920 | 8918 | 8930 | 8924 |
| 27.5 | 8760 | 8749 | 8745 | 8752 | 8749 |
| 30.0 | 8574 | 8569 | 8565 | 8565 | 8565 |
| 32.5 | 8361 | 8358 | 8361 | 8356 | 8357 |
| 35.0 | 8135 | 8132 | 8133 | 8127 | 8127 |
| 37.5 | 7898 | 7887 | 7894 | 7890 | 7887 |
| 40.0 | 7650 | 7649 | 7651 | 7653 | 7652 |
| 42.5 | 7383 | 7381 | 7370 | 7389 | 7406 |
| 45.0 | 6854 | 6858 | 6855 | 6833 | 6778 |
| 47.5 | 6021 | 5994 | 5978 | 5964 | 5942 |
| 50.0 | 4991 | 4997 | 4964 | 4929 | 4991 |
| 52.5 | 4069 | 4082 | 4059 | 4030 | 4040 |
| 55.0 | 3309 | 3301 | 3295 | 3315 | 3287 |
| 57.5 | 2474 | 2467 | 2502 | 2509 | 2518 |
| 60.0 | 1595 | 1561 | 1603 | 1628 | 1653 |
| 62.5 | 1179 | 1181 | 1187 | 1191 | 1184 |
| 65.0 | 1107 | 1108 | 1110 | 1113 | 1116 |
| 67.5 | 1030 | 1032 | 1034 | 1037 | 1035 |
| 70.0 | 948 | 949 | 949 | 949 | 952 |
| 72.5 | 857 | 858 | 859 | 855 | 856 |
| 75.0 | 759 | 761 | 756 | 757 | 758 |
| 77.5 | 652 | 654 | 654 | 654 | 655 |
| 80.0 | 546 | 545 | 547 | 548 | 549 |
| 82.5 | 434 | 430 | 433 | 436 | 437 |
| 85.0 | 315 | 316 | 316 | 320 | 323 |
| 87.5 | 198 | 199 | 199 | 200 | 200 |
| 90.0 | 112 | 111 | 110 | 108 | 106 |
| 92.5 | 109 | 109 | 109 | 109 | 109 |
| 95.0 | 114 | 114 | 114 | 114 | 114 |
| 97.5 | 118 | 118 | 118 | 118 | 118 |
| 100.0 | 123 | 123 | 122 | 122 | 122 |
| 102.5 | 127 | 127 | 127 | 126 | 126 |
| 105.0 | 131 | 131 | 131 | 130 | 130 |
| 107.5 | 135 | 134 | 134 | 134 | 134 |
| 110.0 | 138 | 138 | 138 | 138 | 138 |
| 112.5 | 142 | 142 | 142 | 142 | 142 |
| 115.0 | 144 | 144 | 145 | 144 | 145 |
| 117.5 | 147 | 147 | 147 | 147 | 147 |
| 120.0 | 149 | 149 | 149 | 149 | 149 |
| 122.5 | 152 | 152 | 151 | 151 | 151 |
| 125.0 | 153 | 153 | 153 | 153 | 153 |
| 127.5 | 154 | 155 | 154 | 154 | 155 |
| 130.0 | 156 | 156 | 156 | 156 | 156 |
| 132.5 | 157 | 157 | 157 | 157 | 157 |

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CANDELA TABULATION - (Cont.)

| | | | | | |
|-------|-----|-----|-----|-----|-----|
| 135.0 | 158 | 158 | 158 | 157 | 157 |
| 137.5 | 159 | 159 | 158 | 158 | 158 |
| 140.0 | 159 | 159 | 159 | 159 | 159 |
| 142.5 | 158 | 159 | 159 | 159 | 159 |
| 145.0 | 158 | 159 | 159 | 158 | 159 |
| 147.5 | 157 | 158 | 159 | 158 | 158 |
| 150.0 | 157 | 157 | 158 | 157 | 157 |
| 152.5 | 155 | 156 | 156 | 156 | 156 |
| 155.0 | 154 | 154 | 154 | 153 | 154 |
| 157.5 | 153 | 152 | 152 | 152 | 152 |
| 160.0 | 151 | 150 | 149 | 149 | 149 |
| 162.5 | 149 | 149 | 148 | 147 | 147 |
| 165.0 | 146 | 145 | 145 | 143 | 143 |
| 167.5 | 142 | 141 | 141 | 139 | 139 |
| 170.0 | 138 | 138 | 137 | 137 | 136 |
| 172.5 | 134 | 134 | 134 | 134 | 134 |
| 175.0 | 129 | 130 | 131 | 131 | 131 |
| 177.5 | 124 | 125 | 126 | 127 | 127 |
| 180.0 | 120 | 120 | 120 | 120 | 120 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 3637.38 | N.A. | 15.10 |
| 0-30 | 7762.7 | N.A. | 32.30 |
| 0-40 | 12853.81 | N.A. | 53.40 |
| 0-60 | 20877.47 | N.A. | 86.80 |
| 0-80 | 22813.66 | N.A. | 94.90 |
| 0-90 | 23161.89 | N.A. | 96.30 |
| 10-90 | 22233.66 | N.A. | 92.40 |
| 20-40 | 9216.43 | N.A. | 38.30 |
| 20-50 | 14321.1 | N.A. | 59.50 |
| 40-70 | 9163.43 | N.A. | 38.10 |
| 60-80 | 1936.2 | N.A. | 8.10 |
| 70-80 | 796.42 | N.A. | 3.30 |
| 80-90 | 348.23 | N.A. | 1.40 |
| 90-110 | 262.50 | N.A. | 1.10 |
| 90-120 | 405.59 | N.A. | 1.70 |
| 90-130 | 542.63 | N.A. | 2.30 |
| 90-150 | 764.22 | N.A. | 3.20 |
| 90-180 | 889.16 | N.A. | 3.70 |
| 110-180 | 626.66 | N.A. | 2.60 |
| 0-180 | 24051.05 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 928.23 |
| 10-20 | 2709.15 |
| 20-30 | 4125.32 |
| 30-40 | 5091.11 |
| 40-50 | 5104.67 |
| 50-60 | 2918.98 |
| 60-70 | 1139.78 |
| 70-80 | 796.42 |
| 80-90 | 348.23 |
| 90-100 | 124.62 |
| 100-110 | 137.88 |
| 110-120 | 143.09 |
| 120-130 | 137.04 |
| 130-140 | 122.04 |
| 140-150 | 99.55 |
| 150-160 | 71.28 |
| 160-170 | 41.02 |
| 170-180 | 12.64 |

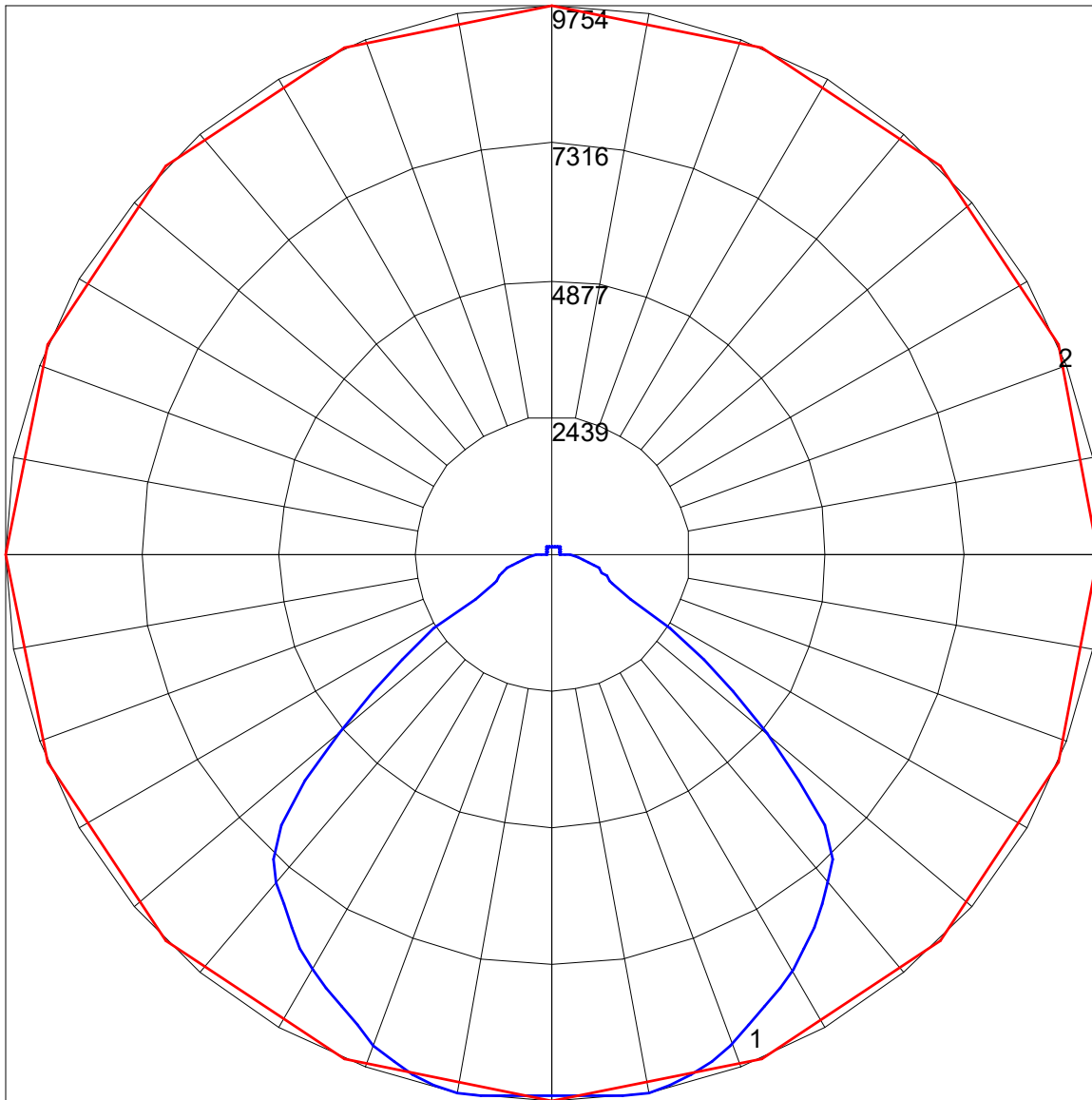
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 96 |
| 1 | 109 | 105 | 102 | 98 | 106 | 103 | 99 | 96 | 98 | 95 | 93 | 93 | 91 | 89 | 89 | 88 | 86 | 84 |
| 2 | 101 | 94 | 88 | 83 | 98 | 92 | 86 | 82 | 88 | 83 | 79 | 84 | 80 | 77 | 80 | 77 | 75 | 73 |
| 3 | 93 | 84 | 77 | 71 | 90 | 82 | 75 | 70 | 79 | 73 | 68 | 75 | 71 | 67 | 73 | 69 | 65 | 63 |
| 4 | 86 | 75 | 67 | 61 | 83 | 74 | 66 | 61 | 71 | 65 | 60 | 68 | 63 | 58 | 66 | 61 | 57 | 55 |
| 5 | 79 | 68 | 60 | 54 | 77 | 67 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 51 | 60 | 55 | 51 | 49 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 53 | 47 | 58 | 51 | 46 | 56 | 50 | 46 | 54 | 49 | 45 | 43 |
| 7 | 69 | 56 | 48 | 42 | 67 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 45 | 41 | 50 | 45 | 40 | 38 |
| 8 | 64 | 51 | 43 | 38 | 62 | 50 | 43 | 38 | 49 | 42 | 37 | 47 | 41 | 37 | 46 | 40 | 36 | 35 |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 44 | 36 | 31 | 55 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | 39 | 34 | 30 | 28 |

POLAR GRAPH



Maximum Candela = 9754 Located At Horizontal Angle = 45, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (45 - 225) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (10) (Through Max. Cd.)