



IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-12L-S-840-R16AC.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-12587
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUE DATE] 05/25/21
 [TEST DATE] 03/10/21
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] AUL-12L-S-840-R16AC
 [OTHER] TEST PROCEDURE: IESNA LM-79-08
 [OTHER] SCALED FROM ORIGINAL TEST DATA
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Interior
 [SEARCH_COLORTEMP] 4000

CHARACTERISTICS

| | |
|---------------------------------|--------------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 12001 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 160 |
| Total Luminaire Watts | 75 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.40 |
| Spacing Criterion (90-270) | 1.40 |
| Spacing Criterion (Diagonal) | 1.28 |
| Basic Luminous Shape | Circular w/ Sides |
| Luminous Length (0-180) | 1.30 ft (Diameter) |
| Luminous Width (90-270) | 1.30 ft (Diameter) |
| Luminous Height | 0.70 ft |



AUL R16

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 16198 | 16348 | 16300 |
| 55 | 12354 | 12369 | 12319 |
| 65 | 9491 | 9499 | 9445 |
| 75 | 3897 | 3958 | 4046 |
| 85 | 1178 | 1168 | 1189 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-12L-S-840-R16AC.IES

CANDELA TABULATION

| | <u>0.0</u> | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
|-------|------------|-------------|-------------|-------------|-------------|
| 0.0 | 4240 | 4240 | 4240 | 4240 | 4240 |
| 2.5 | 4254 | 4250 | 4253 | 4249 | 4251 |
| 5.0 | 4333 | 4329 | 4327 | 4334 | 4315 |
| 7.5 | 4522 | 4527 | 4541 | 4546 | 4525 |
| 10.0 | 4754 | 4727 | 4759 | 4736 | 4725 |
| 12.5 | 4900 | 4900 | 4890 | 4908 | 4937 |
| 15.0 | 4974 | 4990 | 5012 | 4976 | 5051 |
| 17.5 | 5028 | 5048 | 5023 | 5035 | 5056 |
| 20.0 | 4993 | 4989 | 4993 | 4985 | 4972 |
| 22.5 | 4818 | 4820 | 4807 | 4814 | 4833 |
| 25.0 | 4615 | 4614 | 4622 | 4624 | 4629 |
| 27.5 | 4496 | 4487 | 4483 | 4460 | 4471 |
| 30.0 | 4354 | 4348 | 4337 | 4328 | 4310 |
| 32.5 | 4157 | 4184 | 4142 | 4122 | 4120 |
| 35.0 | 3830 | 3826 | 3803 | 3802 | 3788 |
| 37.5 | 3296 | 3273 | 3271 | 3275 | 3296 |
| 40.0 | 2823 | 2804 | 2828 | 2829 | 2844 |
| 42.5 | 2563 | 2573 | 2561 | 2575 | 2567 |
| 45.0 | 2383 | 2407 | 2405 | 2394 | 2398 |
| 47.5 | 2253 | 2256 | 2256 | 2239 | 2242 |
| 50.0 | 2079 | 2074 | 2079 | 2066 | 2058 |
| 52.5 | 1876 | 1893 | 1883 | 1868 | 1866 |
| 55.0 | 1731 | 1723 | 1733 | 1740 | 1726 |
| 57.5 | 1621 | 1623 | 1616 | 1614 | 1610 |
| 60.0 | 1483 | 1483 | 1474 | 1475 | 1465 |
| 62.5 | 1338 | 1334 | 1335 | 1338 | 1330 |
| 65.0 | 1223 | 1222 | 1224 | 1222 | 1217 |
| 67.5 | 1093 | 1094 | 1091 | 1089 | 1089 |
| 70.0 | 911 | 907 | 907 | 905 | 897 |
| 72.5 | 653 | 658 | 656 | 656 | 661 |
| 75.0 | 443 | 443 | 450 | 453 | 460 |
| 77.5 | 339 | 339 | 336 | 336 | 337 |
| 80.0 | 247 | 244 | 242 | 241 | 243 |
| 82.5 | 161 | 160 | 162 | 164 | 164 |
| 85.0 | 112 | 110 | 111 | 112 | 113 |
| 87.5 | 88 | 88 | 89 | 90 | 90 |
| 90.0 | 79 | 79 | 79 | 79 | 79 |
| 92.5 | 72 | 72 | 72 | 73 | 74 |
| 95.0 | 77 | 77 | 78 | 79 | 79 |
| 97.5 | 91 | 91 | 90 | 89 | 89 |
| 100.0 | 91 | 90 | 89 | 89 | 90 |
| 102.5 | 82 | 82 | 83 | 84 | 85 |
| 105.0 | 83 | 83 | 84 | 84 | 84 |
| 107.5 | 84 | 84 | 84 | 84 | 85 |
| 110.0 | 82 | 82 | 82 | 83 | 83 |
| 112.5 | 76 | 76 | 77 | 78 | 78 |
| 115.0 | 71 | 72 | 73 | 74 | 74 |
| 117.5 | 68 | 69 | 69 | 70 | 70 |
| 120.0 | 66 | 67 | 67 | 67 | 67 |
| 122.5 | 64 | 64 | 64 | 64 | 64 |
| 125.0 | 62 | 62 | 62 | 62 | 62 |
| 127.5 | 61 | 61 | 61 | 61 | 61 |
| 130.0 | 61 | 61 | 61 | 61 | 61 |
| 132.5 | 61 | 61 | 61 | 60 | 60 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-12L-S-840-R16AC.IES

CANDELA TABULATION - (Cont.)

| | | | | | |
|--------------|----|----|----|----|----|
| 135.0 | 60 | 60 | 59 | 59 | 58 |
| 137.5 | 57 | 57 | 57 | 56 | 56 |
| 140.0 | 55 | 55 | 54 | 54 | 54 |
| 142.5 | 52 | 53 | 52 | 52 | 52 |
| 145.0 | 51 | 51 | 50 | 50 | 50 |
| 147.5 | 49 | 49 | 49 | 48 | 48 |
| 150.0 | 47 | 47 | 47 | 46 | 46 |
| 152.5 | 45 | 45 | 45 | 44 | 44 |
| 155.0 | 43 | 43 | 43 | 43 | 42 |
| 157.5 | 41 | 41 | 41 | 41 | 41 |
| 160.0 | 39 | 39 | 40 | 40 | 40 |
| 162.5 | 38 | 38 | 39 | 39 | 39 |
| 165.0 | 36 | 37 | 38 | 39 | 38 |
| 167.5 | 35 | 36 | 37 | 38 | 38 |
| 170.0 | 35 | 35 | 36 | 37 | 37 |
| 172.5 | 33 | 34 | 35 | 36 | 36 |
| 175.0 | 31 | 31 | 33 | 34 | 35 |
| 177.5 | 29 | 29 | 30 | 31 | 32 |
| 180.0 | 28 | 28 | 28 | 28 | 28 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-12L-S-840-R16AC.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 1834.97 | N.A. | 15.30 |
| 0-30 | 3975.71 | N.A. | 33.10 |
| 0-40 | 6282.88 | N.A. | 52.40 |
| 0-60 | 9712.09 | N.A. | 80.90 |
| 0-80 | 11440.77 | N.A. | 95.30 |
| 0-90 | 11583.35 | N.A. | 96.50 |
| 10-90 | 11155.41 | N.A. | 93.00 |
| 20-40 | 4447.9 | N.A. | 37.10 |
| 20-50 | 6311.69 | N.A. | 52.60 |
| 40-70 | 4626.8 | N.A. | 38.60 |
| 60-80 | 1728.68 | N.A. | 14.40 |
| 70-80 | 531.09 | N.A. | 4.40 |
| 80-90 | 142.58 | N.A. | 1.20 |
| 90-110 | 177.68 | N.A. | 1.50 |
| 90-120 | 250.67 | N.A. | 2.10 |
| 90-130 | 307.00 | N.A. | 2.60 |
| 90-150 | 384.20 | N.A. | 3.20 |
| 90-180 | 418.14 | N.A. | 3.50 |
| 110-180 | 240.46 | N.A. | 2.00 |
| 0-180 | 12001.49 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 427.94 |
| 10-20 | 1407.03 |
| 20-30 | 2140.74 |
| 30-40 | 2307.17 |
| 40-50 | 1863.78 |
| 50-60 | 1565.43 |
| 60-70 | 1197.59 |
| 70-80 | 531.09 |
| 80-90 | 142.58 |
| 90-100 | 88.57 |
| 100-110 | 89.11 |
| 110-120 | 72.99 |
| 120-130 | 56.33 |
| 130-140 | 45.42 |
| 140-150 | 31.78 |
| 150-160 | 19.96 |
| 160-170 | 10.76 |
| 170-180 | 3.22 |

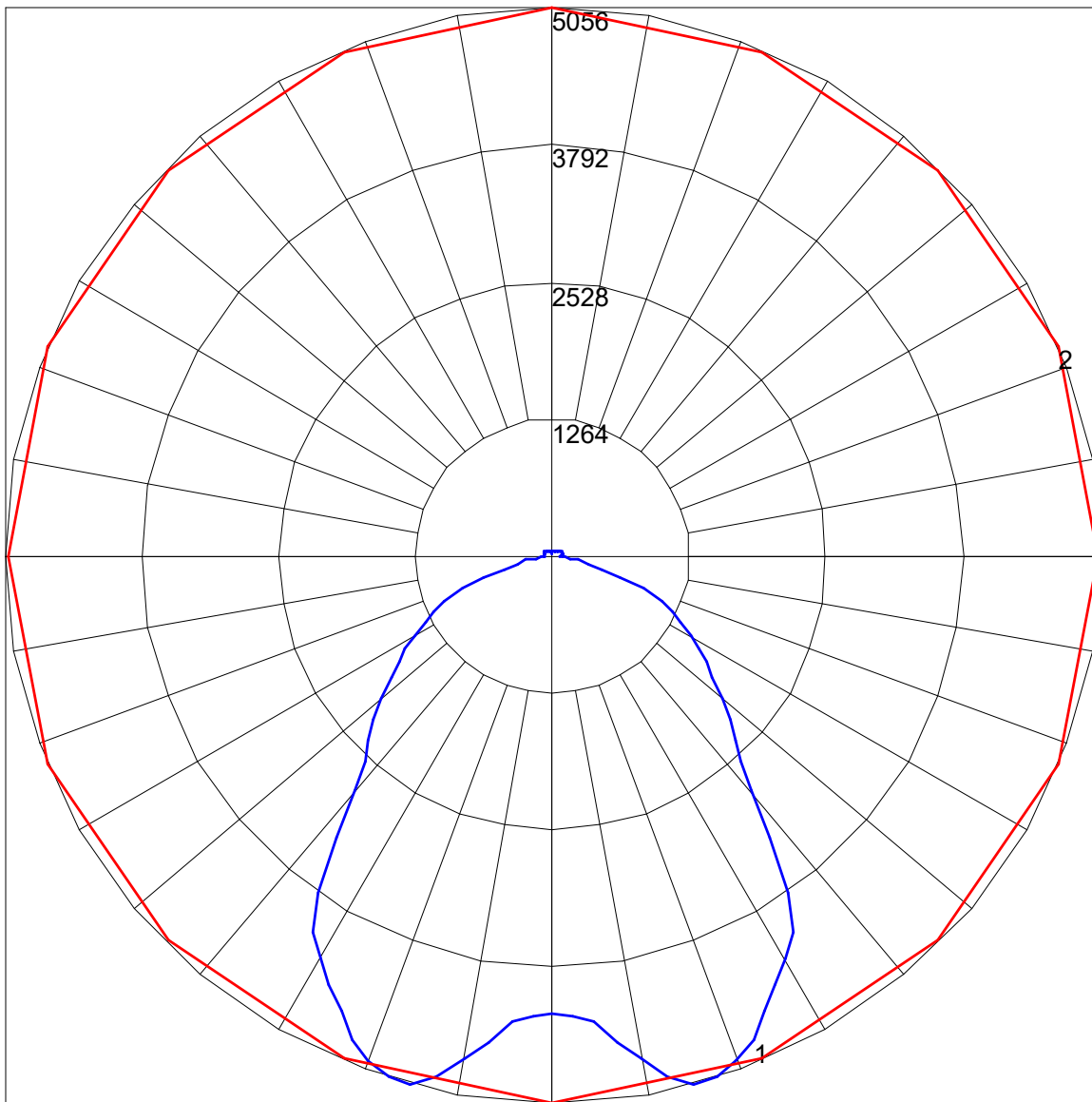
IES INDOOR REPORT
PHOTOMETRIC FILENAME : AUL-12L-S-840-R16AC.IES

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 | 97 |
| 1 | 109 | 105 | 101 | 97 | 106 | 102 | 99 | 95 | 97 | 94 | 92 | 93 | 91 | 88 | 89 | 87 | 85 | 83 |
| 2 | 100 | 92 | 86 | 81 | 97 | 90 | 85 | 80 | 86 | 81 | 77 | 83 | 79 | 75 | 79 | 76 | 73 | 71 |
| 3 | 92 | 82 | 75 | 69 | 89 | 80 | 73 | 68 | 77 | 71 | 66 | 74 | 69 | 65 | 71 | 67 | 63 | 61 |
| 4 | 85 | 73 | 65 | 59 | 82 | 72 | 64 | 58 | 69 | 62 | 57 | 66 | 61 | 56 | 64 | 59 | 55 | 53 |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 46 |
| 6 | 72 | 60 | 51 | 45 | 70 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 53 | 47 | 43 | 41 |
| 7 | 67 | 55 | 46 | 41 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 49 | 43 | 39 | 37 |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 42 | 36 | 48 | 41 | 36 | 46 | 40 | 35 | 45 | 39 | 35 | 33 |
| 9 | 59 | 46 | 38 | 33 | 57 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 42 | 36 | 32 | 30 |
| 10 | 55 | 43 | 35 | 30 | 54 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |

POLAR GRAPH



Maximum Candela = 5056 Located At Horizontal Angle = 90, Vertical Angle = 17.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (17.5) (Through Max. Cd.)