



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD14-LED-36L-SDFL-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8608R_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]05/02/17
[TEST DATE]02/23/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LHBXD_LHB14-LED-36L-SDFL-50
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Outdoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 35785 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 129 |
| Total Luminaire Watts | 278 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.26 |
| Spacing Criterion (Diagonal) | 1.36 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.92 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 35119 | 34877 | 33693 |
| 55 | 32498 | 32106 | 30756 |
| 65 | 29454 | 28922 | 27282 |
| 75 | 26360 | 25212 | 23404 |
| 85 | 25921 | 19518 | 16007 |

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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 | 12956.769 | 12956.769 | 12956.769 | 12956.769 | 12956.769 |
| 2.5 | 12944.494 | 13064.180 | 13015.078 | 12953.701 | 12935.287 |
| 5.0 | 12944.494 | 13061.111 | 13005.871 | 12938.356 | 12913.805 |
| 7.5 | 12919.943 | 13033.491 | 12975.183 | 12895.392 | 12870.841 |
| 10.0 | 12864.703 | 12972.114 | 12907.668 | 12821.739 | 12787.982 |
| 12.5 | 12763.431 | 12870.841 | 12806.395 | 12705.122 | 12674.433 |
| 15.0 | 12631.469 | 12735.811 | 12668.296 | 12560.885 | 12517.921 |
| 17.5 | 12484.163 | 12576.230 | 12496.439 | 12389.028 | 12336.858 |
| 20.0 | 12290.825 | 12382.891 | 12287.756 | 12168.070 | 12118.968 |
| 22.5 | 12066.797 | 12149.657 | 12045.315 | 11916.422 | 11858.114 |
| 25.0 | 11802.874 | 11873.458 | 11769.117 | 11631.018 | 11569.640 |
| 27.5 | 11508.263 | 11566.571 | 11465.299 | 11308.786 | 11247.409 |
| 30.0 | 11149.205 | 11198.307 | 11121.585 | 10955.866 | 10891.420 |
| 32.5 | 10777.872 | 10814.698 | 10731.839 | 10572.257 | 10501.673 |
| 35.0 | 10354.368 | 10406.538 | 10311.403 | 10154.891 | 10087.376 |
| 37.5 | 9921.657 | 9967.690 | 9869.486 | 9697.629 | 9639.321 |
| 40.0 | 9461.326 | 9507.359 | 9396.880 | 9218.886 | 9148.302 |
| 42.5 | 8970.307 | 9016.340 | 8911.999 | 8718.660 | 8660.351 |
| 45.0 | 8467.013 | 8503.839 | 8408.704 | 8215.365 | 8123.299 |
| 47.5 | 7960.649 | 7985.200 | 7880.858 | 7699.795 | 7607.729 |
| 50.0 | 7445.079 | 7466.561 | 7362.219 | 7168.880 | 7082.952 |
| 52.5 | 6886.544 | 6914.164 | 6809.823 | 6637.966 | 6542.831 |
| 55.0 | 6355.630 | 6355.630 | 6278.908 | 6113.189 | 6014.985 |
| 57.5 | 5790.958 | 5821.647 | 5738.787 | 5588.412 | 5484.071 |
| 60.0 | 5278.457 | 5287.663 | 5198.666 | 5051.360 | 4934.743 |
| 62.5 | 4762.886 | 4775.162 | 4683.096 | 4544.997 | 4431.448 |
| 65.0 | 4244.247 | 4265.729 | 4167.526 | 4020.220 | 3931.223 |
| 67.5 | 3771.641 | 3774.710 | 3673.437 | 3529.201 | 3421.790 |
| 70.0 | 3277.553 | 3283.691 | 3157.867 | 3038.181 | 2955.322 |
| 72.5 | 2777.327 | 2795.741 | 2685.261 | 2583.989 | 2507.267 |
| 75.0 | 2326.204 | 2301.653 | 2224.931 | 2129.796 | 2065.350 |
| 77.5 | 1875.080 | 1868.942 | 1786.082 | 1678.672 | 1626.501 |
| 80.0 | 1479.195 | 1445.438 | 1362.578 | 1258.237 | 1206.066 |
| 82.5 | 1095.587 | 1049.554 | 960.556 | 853.146 | 794.837 |
| 85.0 | 770.286 | 702.771 | 580.016 | 481.813 | 475.675 |
| 87.5 | 466.468 | 362.127 | 257.785 | 230.165 | 217.890 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 4802.35 | N.A. | 13.40 |
| 0-30 | 10208.28 | N.A. | 28.50 |
| 0-40 | 16627.45 | N.A. | 46.50 |
| 0-60 | 28646.23 | N.A. | 80.10 |
| 0-80 | 35098.85 | N.A. | 98.10 |
| 0-90 | 35785.33 | N.A. | 100.00 |
| 10-90 | 34549.26 | N.A. | 96.50 |
| 20-40 | 11825.1 | N.A. | 33.00 |
| 20-50 | 18269.13 | N.A. | 51.10 |
| 40-70 | 16121.46 | N.A. | 45.10 |
| 60-80 | 6452.62 | N.A. | 18.00 |
| 70-80 | 2349.95 | N.A. | 6.60 |
| 80-90 | 686.48 | N.A. | 1.90 |
| 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 | 35785.33 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 1236.07 |
| 10-20 | 3566.28 |
| 20-30 | 5405.93 |
| 30-40 | 6419.17 |
| 40-50 | 6444.04 |
| 50-60 | 5574.75 |
| 60-70 | 4102.67 |
| 70-80 | 2349.95 |
| 80-90 | 686.48 |
| 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 |

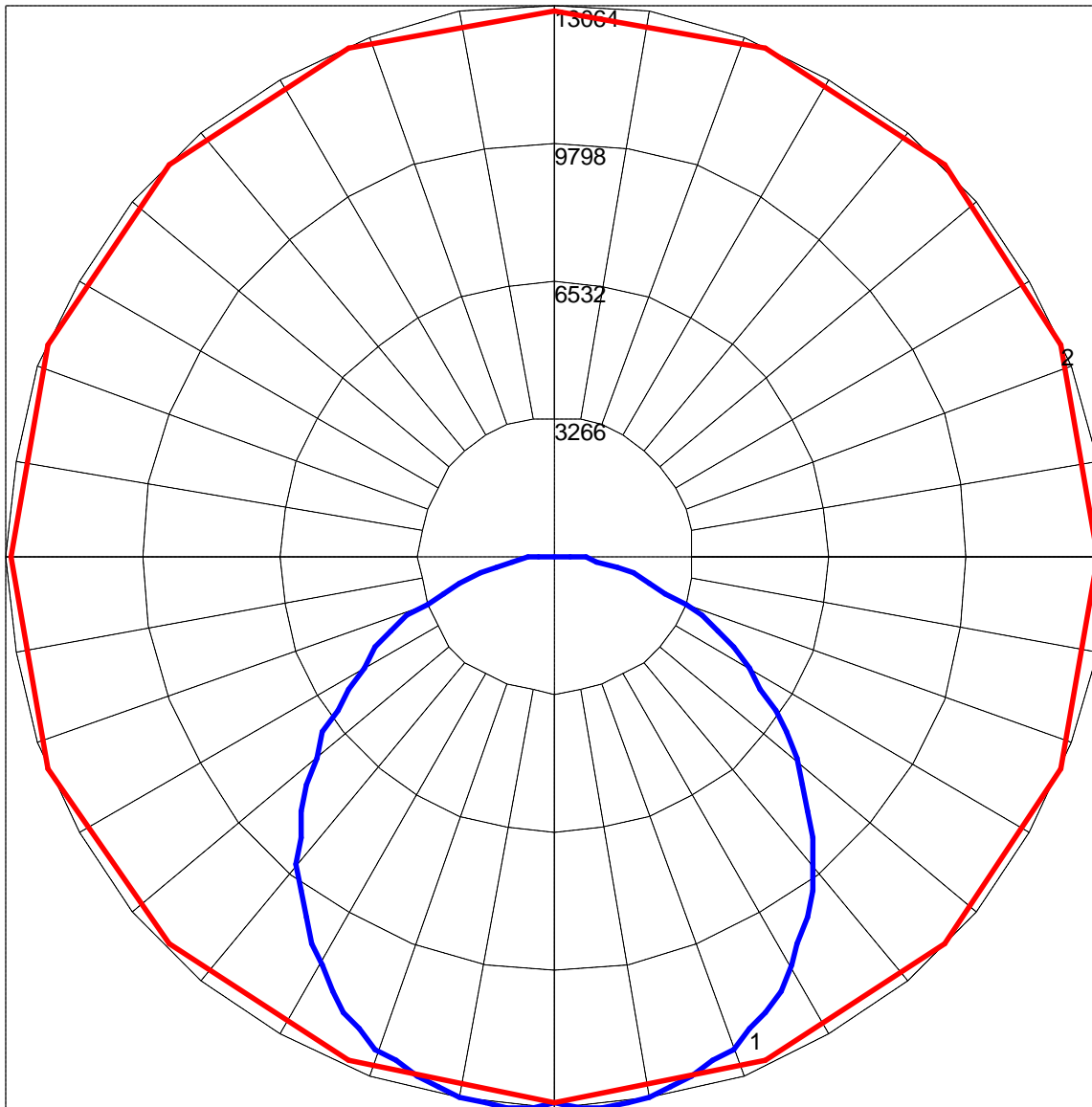
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 95 | 98 | 94 | 92 | 94 | 91 | 89 | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 79 | 97 | 89 | 83 | 78 | 86 | 80 | 76 | 82 | 78 | 74 | 79 | 76 | 72 | 70 |
| 3 | 91 | 80 | 72 | 66 | 88 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 67 | 63 | 70 | 66 | 62 | 59 |
| 4 | 83 | 71 | 62 | 56 | 81 | 70 | 62 | 55 | 67 | 60 | 55 | 65 | 59 | 54 | 63 | 57 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 71 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 39 |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 36 | 47 | 41 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 31 |
| 9 | 57 | 44 | 35 | 30 | 56 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 29 | 28 |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 |

POLAR GRAPH



Maximum Candela = 13064.18 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)