



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-30L-S-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8707R_Scaled
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]05/02/17
[TEST DATE]03/17/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LHBXD_LHB11-LED-30L-S-35
[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 | 27394 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 129 |
| Total Luminaire Watts | 213 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.38 |
| Spacing Criterion (90-270) | 1.36 |
| Spacing Criterion (Diagonal) | 1.48 |
| 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 | 28712 | 28712 | 28375 |
| 55 | 27883 | 27952 | 27479 |
| 65 | 25406 | 24748 | 19172 |
| 75 | 18389 | 12328 | 7494 |
| 85 | 9494 | 5620 | 5089 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-30L-S-35.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 | 9077.896 | 9077.896 | 9077.896 | 9077.896 | 9077.896 |
| 2.5 | 9048.554 | 9150.121 | 9118.523 | 9082.410 | 9068.867 |
| 5.0 | 9064.353 | 9154.636 | 9114.008 | 9073.381 | 9057.582 |
| 7.5 | 9062.096 | 9145.607 | 9100.466 | 9050.811 | 9039.526 |
| 10.0 | 9050.811 | 9125.294 | 9082.410 | 9032.754 | 9028.240 |
| 12.5 | 9025.983 | 9091.438 | 9053.068 | 9010.184 | 8998.898 |
| 15.0 | 8980.842 | 9044.040 | 9007.927 | 8965.043 | 8949.243 |
| 17.5 | 8924.415 | 8980.842 | 8958.271 | 8897.331 | 8888.302 |
| 20.0 | 8843.161 | 8899.588 | 8886.045 | 8813.819 | 8791.249 |
| 22.5 | 8748.365 | 8802.534 | 8786.735 | 8712.252 | 8696.452 |
| 25.0 | 8642.283 | 8689.681 | 8667.111 | 8590.371 | 8576.828 |
| 27.5 | 8504.602 | 8558.772 | 8520.402 | 8452.690 | 8439.148 |
| 30.0 | 8355.636 | 8407.549 | 8369.179 | 8296.953 | 8269.868 |
| 32.5 | 8175.072 | 8231.498 | 8195.385 | 8111.874 | 8087.046 |
| 35.0 | 7974.193 | 8028.363 | 7994.507 | 7901.967 | 7883.911 |
| 37.5 | 7741.716 | 7798.142 | 7768.801 | 7678.518 | 7658.205 |
| 40.0 | 7491.182 | 7540.838 | 7506.982 | 7430.242 | 7425.728 |
| 42.5 | 7220.335 | 7267.733 | 7222.592 | 7168.423 | 7154.880 |
| 45.0 | 6922.403 | 6965.287 | 6922.403 | 6868.234 | 6841.149 |
| 47.5 | 6586.101 | 6633.499 | 6606.415 | 6531.932 | 6518.389 |
| 50.0 | 6236.257 | 6283.655 | 6254.313 | 6177.573 | 6175.316 |
| 52.5 | 5845.786 | 5908.983 | 5872.870 | 5800.644 | 5796.130 |
| 55.0 | 5453.057 | 5513.998 | 5466.599 | 5394.374 | 5374.060 |
| 57.5 | 5026.473 | 5091.927 | 5040.015 | 4945.219 | 4900.077 |
| 60.0 | 4593.117 | 4645.030 | 4588.603 | 4421.581 | 4290.671 |
| 62.5 | 4125.906 | 4189.103 | 4107.849 | 3812.174 | 3545.841 |
| 65.0 | 3660.951 | 3699.321 | 3566.155 | 3049.288 | 2762.642 |
| 67.5 | 3137.313 | 3164.398 | 2963.520 | 2313.487 | 2002.012 |
| 70.0 | 2631.732 | 2627.218 | 2286.402 | 1622.826 | 1372.293 |
| 72.5 | 2101.323 | 2110.351 | 1629.597 | 1101.445 | 950.222 |
| 75.0 | 1622.826 | 1611.541 | 1087.903 | 751.601 | 661.319 |
| 77.5 | 1178.185 | 1146.587 | 715.488 | 521.381 | 480.754 |
| 80.0 | 801.256 | 735.802 | 458.183 | 361.130 | 345.330 |
| 82.5 | 496.553 | 424.327 | 286.647 | 241.505 | 232.477 |
| 85.0 | 282.133 | 227.963 | 167.022 | 153.480 | 151.223 |
| 87.5 | 137.681 | 101.568 | 85.768 | 81.254 | 83.511 |
| 90.0 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-30L-S-35.IES

ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|----------|-------|--------|
| 0-20 | 3411.04 | N.A. | 12.50 |
| 0-30 | 7395.96 | N.A. | 27.00 |
| 0-40 | 12376.87 | N.A. | 45.20 |
| 0-60 | 22548.69 | N.A. | 82.30 |
| 0-80 | 27154.68 | N.A. | 99.10 |
| 0-90 | 27394.42 | N.A. | 100.00 |
| 10-90 | 26526.88 | N.A. | 96.80 |
| 20-40 | 8965.83 | N.A. | 32.70 |
| 20-50 | 14288.35 | N.A. | 52.20 |
| 40-70 | 13494.25 | N.A. | 49.30 |
| 60-80 | 4605.99 | N.A. | 16.80 |
| 70-80 | 1283.57 | N.A. | 4.70 |
| 80-90 | 239.73 | N.A. | 0.90 |
| 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 | 27394.42 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 867.53 |
| 10-20 | 2543.51 |
| 20-30 | 3984.92 |
| 30-40 | 4980.91 |
| 40-50 | 5322.52 |
| 50-60 | 4849.3 |
| 60-70 | 3322.43 |
| 70-80 | 1283.57 |
| 80-90 | 239.73 |
| 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 |

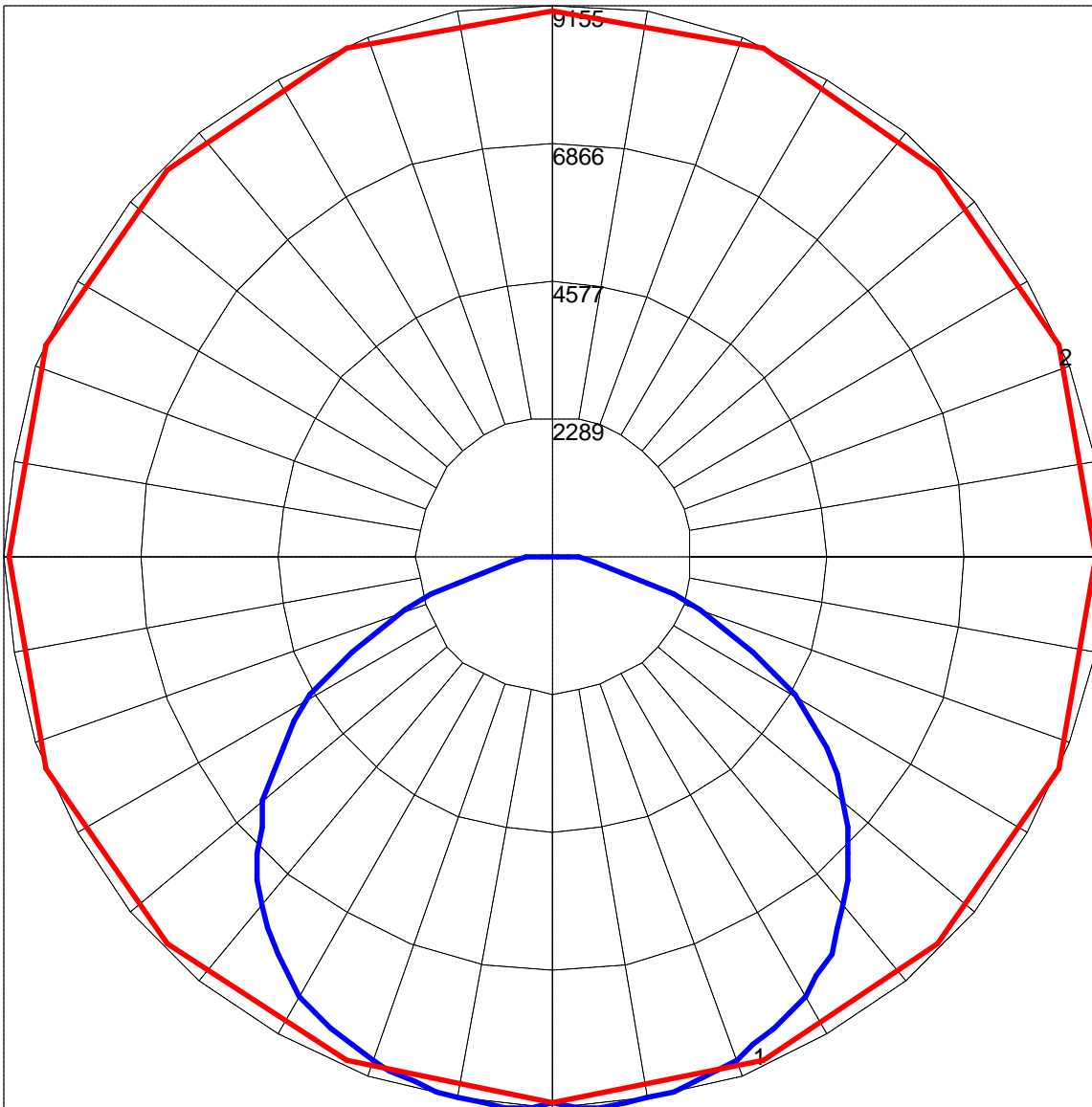
IES INDOOR REPORT
PHOTOMETRIC FILENAME : LHBXD11-LED-30L-S-35.IES

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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 73 | 71 |
| 3 | 91 | 81 | 73 | 66 | 88 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 63 | 71 | 66 | 62 | 60 |
| 4 | 83 | 71 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 53 | 51 |
| 5 | 76 | 64 | 55 | 48 | 74 | 62 | 54 | 48 | 60 | 53 | 47 | 58 | 52 | 47 | 57 | 51 | 46 | 44 |
| 6 | 70 | 57 | 48 | 42 | 69 | 56 | 48 | 42 | 54 | 47 | 41 | 53 | 46 | 41 | 51 | 45 | 41 | 38 |
| 7 | 65 | 52 | 43 | 37 | 63 | 51 | 43 | 37 | 49 | 42 | 36 | 48 | 41 | 36 | 47 | 40 | 36 | 34 |
| 8 | 61 | 47 | 39 | 33 | 59 | 46 | 38 | 33 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 9 | 57 | 43 | 35 | 29 | 55 | 43 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 32 | 26 | 38 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |

POLAR GRAPH



Maximum Candela = 9154.636 Located At Horizontal Angle = 22.5, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (5) (Through Max. Cd.)