



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LDI-4-LED-FB-SS-35.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LDI LED 4 FB SS WW S UE
[TESTLAB] Dekko
[TESTDATE] 03-17-2017
[ISSUE DATE] 06-19-2017
[MANUFACTURER] LSI INDUSTRIES, INC
[_SEARCH_SOURCETYPE] LED
[_SEARCH_APPLICATION] Outdoor
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[_ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED
[LUMCAT] LDI-4-LED-FB-SS-35

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 6376 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 168 |
| Total Luminaire Watts | 38 |
| Ballast Factor | 1.00 |
| CIE Type | Semi-Indirect |
| Spacing Criterion (0-180) | N.A. |
| Spacing Criterion (90-270) | N.A. |
| Spacing Criterion (Diagonal) | N.A. |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 0.75 ft |
| Luminous Height | 0.00 ft |



LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 2045 | 1416 | 1194 |
| 55 | 2012 | 1229 | 984 |
| 65 | 1755 | 1002 | 808 |
| 75 | 1263 | 898 | 764 |
| 85 | 1538 | 1839 | 1196 |

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CANDELA TABULATION

| | <u>0</u> | <u>10</u> | <u>20</u> | <u>30</u> | <u>40</u> | <u>50</u> | <u>60</u> | <u>70</u> | <u>80</u> | <u>90</u> |
|------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | 443.461 | 443.461 | 443.461 | 443.461 | 443.461 | 443.461 | 443.461 | 443.461 | 443.461 | 443.461 |
| 10 | 452.821 | 447.356 | 442.934 | 438.283 | 433.113 | 428.295 | 424.575 | 422.394 | 420.586 | 419.564 |
| 20 | 464.306 | 456.736 | 445.615 | 431.445 | 418.130 | 405.062 | 395.753 | 389.793 | 386.868 | 385.598 |
| 30 | 466.185 | 458.634 | 436.556 | 409.744 | 385.937 | 366.404 | 351.311 | 342.312 | 338.786 | 338.528 |
| 40 | 436.903 | 427.397 | 394.106 | 360.846 | 331.366 | 305.217 | 287.568 | 277.100 | 273.824 | 274.477 |
| 50 | 370.025 | 357.752 | 324.974 | 285.346 | 253.251 | 227.506 | 208.448 | 198.441 | 195.399 | 196.705 |
| 60 | 273.974 | 259.912 | 229.996 | 196.577 | 165.479 | 140.065 | 123.340 | 118.615 | 117.707 | 118.184 |
| 70 | 139.831 | 134.311 | 120.750 | 103.497 | 86.376 | 80.740 | 77.893 | 74.875 | 73.099 | 72.349 |
| 80 | 42.625 | 43.525 | 44.024 | 44.370 | 46.172 | 46.145 | 42.902 | 40.682 | 38.944 | 37.941 |
| 90 | 32.145 | 27.954 | 29.511 | 33.105 | 43.026 | 43.486 | 34.178 | 30.408 | 27.029 | 20.230 |
| 100 | 441.629 | 415.849 | 397.681 | 327.750 | 313.733 | 271.087 | 258.972 | 218.701 | 162.832 | 108.844 |
| 110 | 1180.085 | 1149.464 | 1100.480 | 986.310 | 898.564 | 765.520 | 671.809 | 552.903 | 391.815 | 284.788 |
| 120 | 1386.912 | 1364.754 | 1312.449 | 1235.304 | 1132.841 | 1022.240 | 897.382 | 738.699 | 573.188 | 497.026 |
| 130 | 1439.694 | 1413.024 | 1370.356 | 1304.858 | 1217.602 | 1115.509 | 982.152 | 851.333 | 731.634 | 689.185 |
| 140 | 1395.749 | 1367.691 | 1329.774 | 1278.501 | 1202.869 | 1130.562 | 1024.825 | 923.109 | 863.661 | 844.173 |
| 150 | 1286.554 | 1267.835 | 1238.152 | 1208.655 | 1152.099 | 1105.125 | 1030.362 | 982.475 | 959.842 | 951.319 |
| 160 | 1150.274 | 1138.134 | 1124.154 | 1112.817 | 1087.083 | 1073.006 | 1053.078 | 1037.195 | 1030.964 | 1024.295 |
| 170 | 1108.194 | 1098.524 | 1093.719 | 1087.622 | 1082.898 | 1079.332 | 1075.012 | 1072.795 | 1068.397 | 1066.722 |
| 180 | 1099.781 | 1091.412 | 1088.285 | 1087.756 | 1081.608 | 1083.205 | 1081.533 | 1080.323 | 1080.225 | 1080.388 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 162.26 | N.A. | 2.50 |
| 0-30 | 348.60 | N.A. | 5.50 |
| 0-40 | 575.63 | N.A. | 9.00 |
| 0-60 | 999.21 | N.A. | 15.70 |
| 0-80 | 1205.01 | N.A. | 18.90 |
| 0-90 | 1246.34 | N.A. | 19.50 |
| 10-90 | 1204.53 | N.A. | 18.90 |
| 20-40 | 413.37 | N.A. | 6.50 |
| 20-50 | 643.45 | N.A. | 10.10 |
| 40-70 | 556.23 | N.A. | 8.70 |
| 60-80 | 205.80 | N.A. | 3.20 |
| 70-80 | 73.15 | N.A. | 1.10 |
| 80-90 | 41.34 | N.A. | 0.60 |
| 90-110 | 759.34 | N.A. | 11.90 |
| 90-120 | 1667.48 | N.A. | 26.20 |
| 90-130 | 2627.93 | N.A. | 41.20 |
| 90-150 | 4209.6 | N.A. | 66.00 |
| 90-180 | 5129.33 | N.A. | 80.50 |
| 110-180 | 4369.99 | N.A. | 68.50 |
| 0-180 | 6375.67 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 41.81 |
| 10-20 | 120.44 |
| 20-30 | 186.34 |
| 30-40 | 227.03 |
| 40-50 | 230.08 |
| 50-60 | 193.50 |
| 60-70 | 132.65 |
| 70-80 | 73.15 |
| 80-90 | 41.34 |
| 90-100 | 178.01 |
| 100-110 | 581.33 |
| 110-120 | 908.14 |
| 120-130 | 960.45 |
| 130-140 | 873.05 |
| 140-150 | 708.62 |
| 150-160 | 509.34 |
| 160-170 | 306.92 |
| 170-180 | 103.46 |

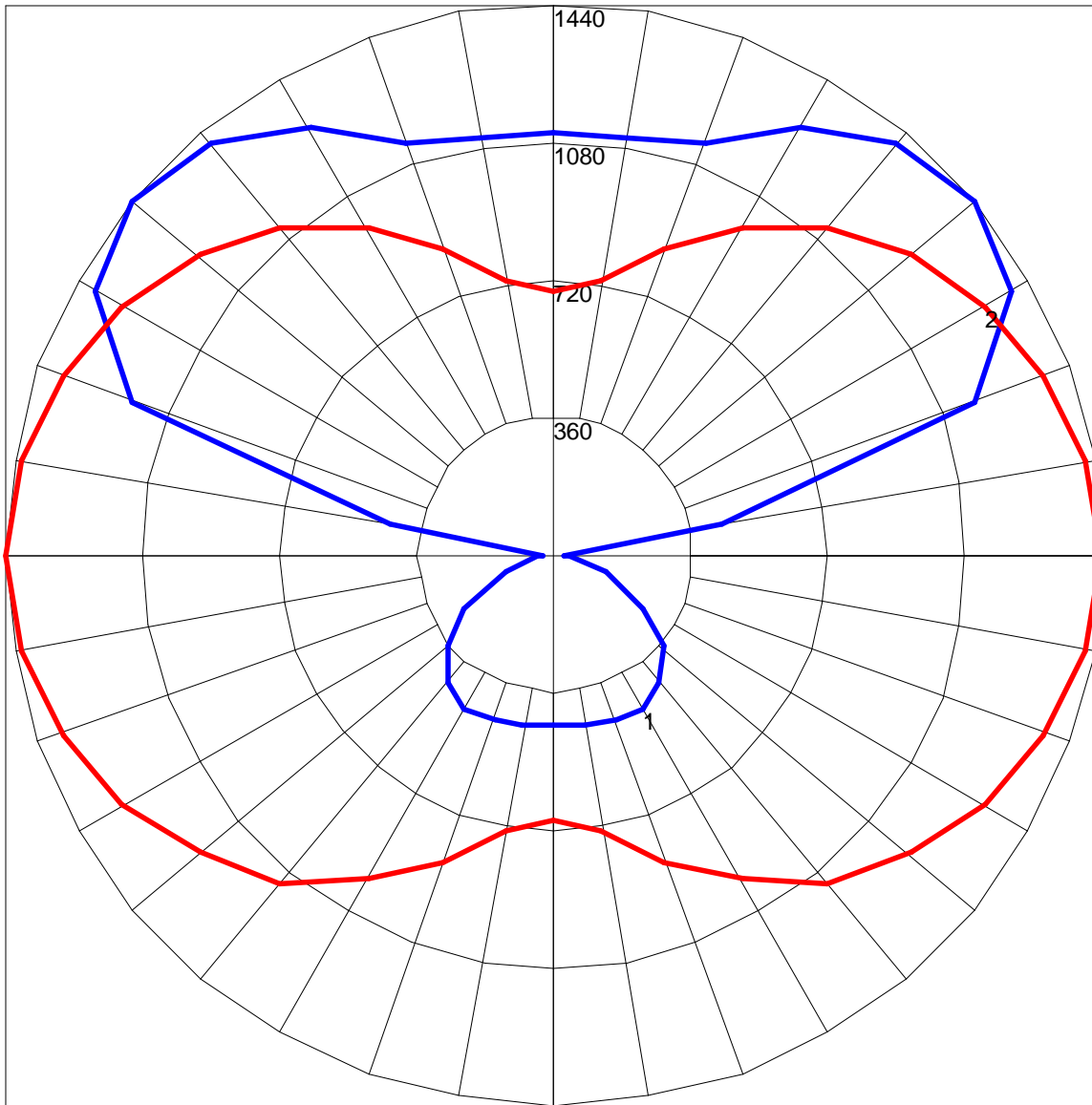
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC RW | 80 | | | | 70 | | | | 50 | | | 30 | | | 10 | | | 0 |
|----------|-----|-----|-----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 |
| 0 | 100 | 100 | 100 | 100 | 88 | 88 | 88 | 88 | 66 | 66 | 66 | 46 | 46 | 46 | 28 | 28 | 28 | 20 |
| 1 | 91 | 87 | 83 | 80 | 80 | 77 | 74 | 71 | 58 | 56 | 54 | 41 | 39 | 38 | 25 | 24 | 24 | 16 |
| 2 | 83 | 76 | 70 | 65 | 73 | 67 | 62 | 58 | 51 | 47 | 45 | 36 | 34 | 32 | 22 | 21 | 20 | 14 |
| 3 | 75 | 66 | 59 | 54 | 66 | 59 | 53 | 48 | 45 | 41 | 37 | 31 | 29 | 27 | 19 | 18 | 17 | 12 |
| 4 | 69 | 59 | 51 | 45 | 60 | 52 | 46 | 41 | 40 | 35 | 32 | 28 | 25 | 23 | 17 | 16 | 14 | 10 |
| 5 | 63 | 52 | 44 | 39 | 55 | 46 | 40 | 35 | 35 | 31 | 27 | 25 | 22 | 20 | 15 | 14 | 13 | 9 |
| 6 | 58 | 46 | 39 | 33 | 51 | 41 | 35 | 30 | 32 | 27 | 24 | 22 | 19 | 17 | 14 | 12 | 11 | 8 |
| 7 | 53 | 42 | 34 | 29 | 47 | 37 | 31 | 26 | 28 | 24 | 21 | 20 | 17 | 15 | 13 | 11 | 10 | 7 |
| 8 | 49 | 38 | 30 | 25 | 43 | 34 | 27 | 23 | 26 | 21 | 18 | 18 | 15 | 13 | 12 | 10 | 9 | 6 |
| 9 | 46 | 34 | 27 | 22 | 40 | 30 | 24 | 20 | 23 | 19 | 16 | 17 | 14 | 12 | 11 | 9 | 8 | 5 |
| 10 | 43 | 31 | 24 | 20 | 38 | 28 | 22 | 18 | 21 | 17 | 14 | 15 | 13 | 11 | 10 | 8 | 7 | 5 |

POLAR GRAPH



Maximum Candela = 1439.694 Located At Horizontal Angle = 0, Vertical Angle = 130
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (130) (Through Max. Cd.)