



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LDI-4-LED-100-PB-VHO-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LDI LED 4 PB VHO NW S UE 0 100
[TESTLAB] Dekko
[TESTDATE] 03-20-2017
[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-100-PB-VHO-40

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 5100 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 71 |
| Total Luminaire Watts | 71.4 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.22 |
| Spacing Criterion (90-270) | 1.04 |
| Spacing Criterion (Diagonal) | 1.20 |
| 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 | 7595 | 5770 | 5223 |
| 55 | 7146 | 4743 | 4025 |
| 65 | 6115 | 3636 | 3093 |
| 75 | 4062 | 2737 | 2575 |
| 85 | 2046 | 2373 | 2261 |

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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 | 2402.125 | 2402.125 | 2402.125 | 2402.125 | 2402.125 | 2402.125 | 2402.125 | 2402.125 | 2402.125 | 2402.125 |
| 10 | 2296.536 | 2290.303 | 2277.085 | 2268.194 | 2257.801 | 2250.833 | 2242.545 | 2241.092 | 2242.203 | 2240.389 |
| 20 | 2140.069 | 2126.944 | 2094.514 | 2054.764 | 2017.969 | 1988.530 | 1969.826 | 1960.848 | 1963.177 | 1967.457 |
| 30 | 1938.969 | 1911.950 | 1850.385 | 1772.129 | 1713.761 | 1660.624 | 1627.093 | 1612.022 | 1613.914 | 1620.074 |
| 40 | 1664.269 | 1625.471 | 1540.724 | 1449.624 | 1361.796 | 1295.112 | 1250.155 | 1229.112 | 1227.570 | 1237.946 |
| 50 | 1332.053 | 1284.492 | 1187.065 | 1080.412 | 985.735 | 910.050 | 857.836 | 826.608 | 822.447 | 822.767 |
| 60 | 954.933 | 909.769 | 810.222 | 701.710 | 613.275 | 526.837 | 476.934 | 463.973 | 463.337 | 465.442 |
| 70 | 487.069 | 463.850 | 414.775 | 350.984 | 295.234 | 279.206 | 271.430 | 264.992 | 263.530 | 263.925 |
| 80 | 99.475 | 102.500 | 105.193 | 107.395 | 107.683 | 108.325 | 108.917 | 109.901 | 108.608 | 107.889 |
| 90 | 0.000 | 0.000 | 0.000 | 2.787 | 6.720 | 8.059 | 6.992 | 5.264 | 3.293 | 2.078 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 829.89 | N.A. | 16.30 |
| 0-30 | 1698.32 | N.A. | 33.30 |
| 0-40 | 2674.55 | N.A. | 52.40 |
| 0-60 | 4331.07 | N.A. | 84.90 |
| 0-80 | 5040.06 | N.A. | 98.80 |
| 0-90 | 5100.45 | N.A. | 100.00 |
| 10-90 | 4877.95 | N.A. | 95.60 |
| 20-40 | 1844.65 | N.A. | 36.20 |
| 20-50 | 2768.08 | N.A. | 54.30 |
| 40-70 | 2133.85 | N.A. | 41.80 |
| 60-80 | 708.99 | N.A. | 13.90 |
| 70-80 | 231.67 | N.A. | 4.50 |
| 80-90 | 60.39 | N.A. | 1.20 |
| 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 | 5100.45 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 222.51 |
| 10-20 | 607.39 |
| 20-30 | 868.43 |
| 30-40 | 976.22 |
| 40-50 | 923.43 |
| 50-60 | 733.10 |
| 60-70 | 477.32 |
| 70-80 | 231.67 |
| 80-90 | 60.39 |
| 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 |

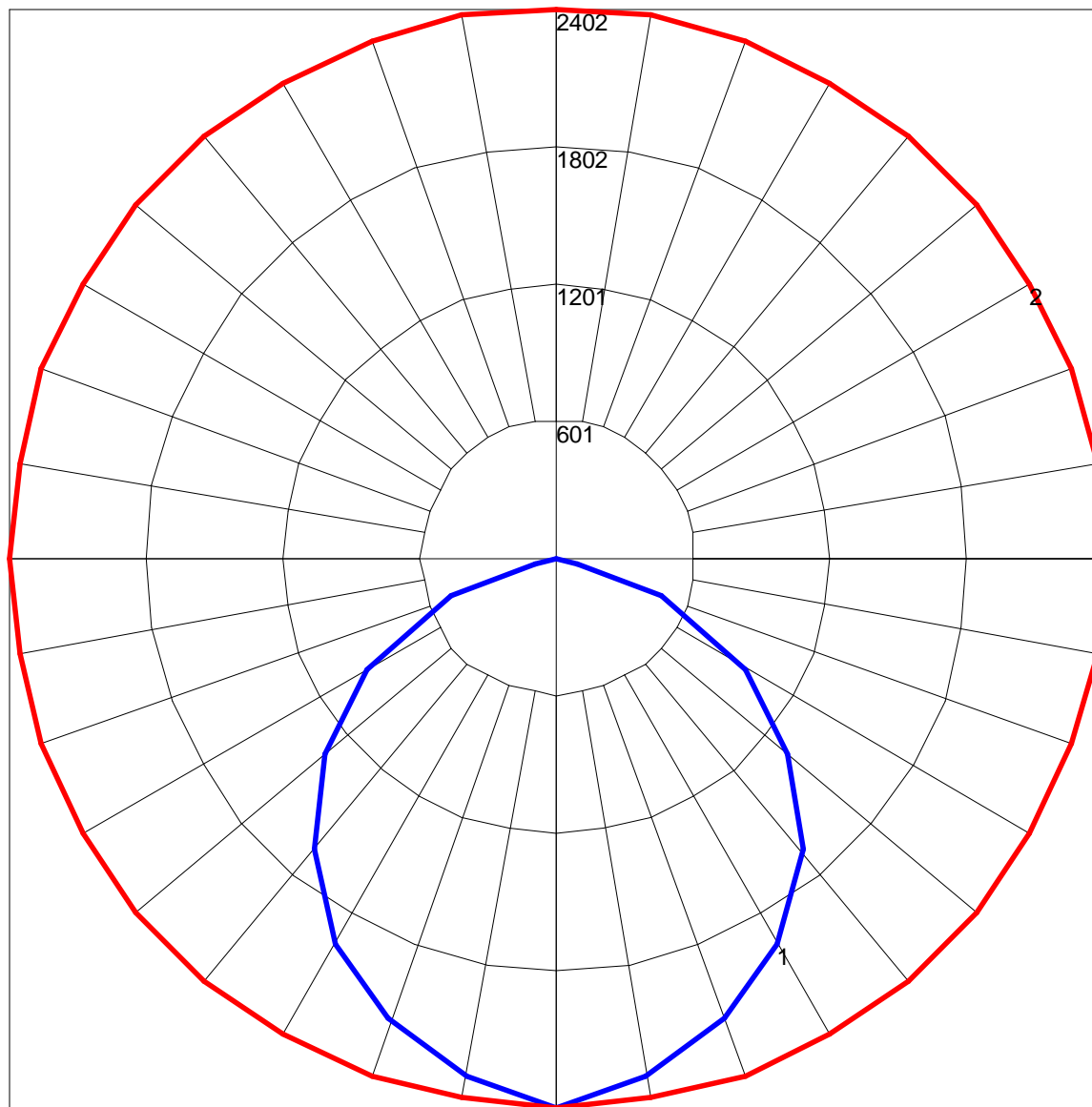
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 75 | 73 |
| 3 | 93 | 83 | 75 | 69 | 90 | 81 | 74 | 69 | 78 | 72 | 67 | 76 | 71 | 66 | 73 | 69 | 65 | 63 |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 65 | 59 | 70 | 64 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 |
| 5 | 79 | 67 | 58 | 52 | 77 | 66 | 58 | 52 | 64 | 57 | 51 | 62 | 55 | 51 | 60 | 54 | 50 | 48 |
| 6 | 73 | 60 | 52 | 46 | 71 | 60 | 52 | 46 | 58 | 51 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 43 |
| 7 | 68 | 55 | 47 | 41 | 66 | 54 | 46 | 41 | 53 | 46 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 |
| 8 | 63 | 51 | 42 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 47 | 41 | 36 | 46 | 40 | 36 | 34 |
| 9 | 59 | 47 | 39 | 33 | 58 | 46 | 38 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 43 | 36 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |

POLAR GRAPH



Maximum Candela = 2402.125 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)