



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC14-LED-75L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]LED-8866
[TESTLAB]LSI INDUSTRIES, INC
[ISSUE DATE]05/02/17
[TEST DATE]05/02/17
[MANUFACTURER]LSI INDUSTRIES, INC
[LUMEN CATEGORY]LPASC14-LED-75L-40
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER]TEST PROCEDURE: IESNA LM-79-08
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 7551 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 124 |
| Total Luminaire Watts | 60.8 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.38 |
| Spacing Criterion (Diagonal) | 1.44 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 ft |
| Luminous Width (90-270) | 1.00 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 5851 | 6574 | 7152 |
| 55 | 5409 | 6548 | 7434 |
| 65 | 5026 | 6635 | 7589 |
| 75 | 4570 | 6617 | 6471 |
| 85 | 4195 | 6077 | 6539 |

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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 | 2377 | 2377 | 2377 | 2377 | 2377 |
| 2.5 | 2431 | 2397 | 2378 | 2360 | 2345 |
| 5.0 | 2431 | 2396 | 2379 | 2361 | 2346 |
| 7.5 | 2422 | 2389 | 2375 | 2359 | 2344 |
| 10.0 | 2409 | 2378 | 2366 | 2354 | 2341 |
| 12.5 | 2389 | 2359 | 2352 | 2347 | 2335 |
| 15.0 | 2362 | 2336 | 2336 | 2336 | 2327 |
| 17.5 | 2327 | 2306 | 2313 | 2321 | 2315 |
| 20.0 | 2284 | 2269 | 2285 | 2301 | 2298 |
| 22.5 | 2238 | 2228 | 2253 | 2277 | 2278 |
| 25.0 | 2183 | 2181 | 2216 | 2249 | 2254 |
| 27.5 | 2119 | 2126 | 2171 | 2216 | 2225 |
| 30.0 | 2051 | 2065 | 2124 | 2179 | 2191 |
| 32.5 | 1977 | 1997 | 2069 | 2136 | 2150 |
| 35.0 | 1897 | 1925 | 2009 | 2089 | 2107 |
| 37.5 | 1811 | 1846 | 1945 | 2036 | 2057 |
| 40.0 | 1723 | 1765 | 1877 | 1978 | 2004 |
| 42.5 | 1633 | 1680 | 1805 | 1918 | 1946 |
| 45.0 | 1539 | 1590 | 1729 | 1850 | 1881 |
| 47.5 | 1440 | 1500 | 1651 | 1780 | 1814 |
| 50.0 | 1340 | 1409 | 1568 | 1705 | 1742 |
| 52.5 | 1246 | 1317 | 1482 | 1623 | 1666 |
| 55.0 | 1154 | 1226 | 1397 | 1542 | 1586 |
| 57.5 | 1060 | 1135 | 1310 | 1455 | 1493 |
| 60.0 | 970 | 1045 | 1219 | 1367 | 1403 |
| 62.5 | 879 | 954 | 1130 | 1272 | 1305 |
| 65.0 | 790 | 865 | 1043 | 1172 | 1193 |
| 67.5 | 697 | 774 | 950 | 1057 | 1063 |
| 70.0 | 607 | 686 | 854 | 928 | 918 |
| 72.5 | 520 | 604 | 748 | 780 | 768 |
| 75.0 | 440 | 525 | 637 | 639 | 623 |
| 77.5 | 359 | 447 | 520 | 501 | 480 |
| 80.0 | 282 | 365 | 401 | 385 | 374 |
| 82.5 | 208 | 275 | 293 | 289 | 290 |
| 85.0 | 136 | 185 | 197 | 208 | 212 |
| 87.5 | 67 | 96 | 102 | 110 | 113 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 887.27 | N.A. | 11.80 |
| 0-30 | 1908.64 | N.A. | 25.30 |
| 0-40 | 3163.44 | N.A. | 41.90 |
| 0-60 | 5727.08 | N.A. | 75.80 |
| 0-80 | 7346.46 | N.A. | 97.30 |
| 0-90 | 7551.07 | N.A. | 100.00 |
| 10-90 | 7324.23 | N.A. | 97.00 |
| 20-40 | 2276.17 | N.A. | 30.10 |
| 20-50 | 3603.07 | N.A. | 47.70 |
| 40-70 | 3566.46 | N.A. | 47.20 |
| 60-80 | 1619.37 | N.A. | 21.40 |
| 70-80 | 616.56 | N.A. | 8.20 |
| 80-90 | 204.61 | N.A. | 2.70 |
| 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 | 7551.07 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 226.84 |
| 10-20 | 660.43 |
| 20-30 | 1021.37 |
| 30-40 | 1254.8 |
| 40-50 | 1326.91 |
| 50-60 | 1236.74 |
| 60-70 | 1002.81 |
| 70-80 | 616.56 |
| 80-90 | 204.61 |
| 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 |

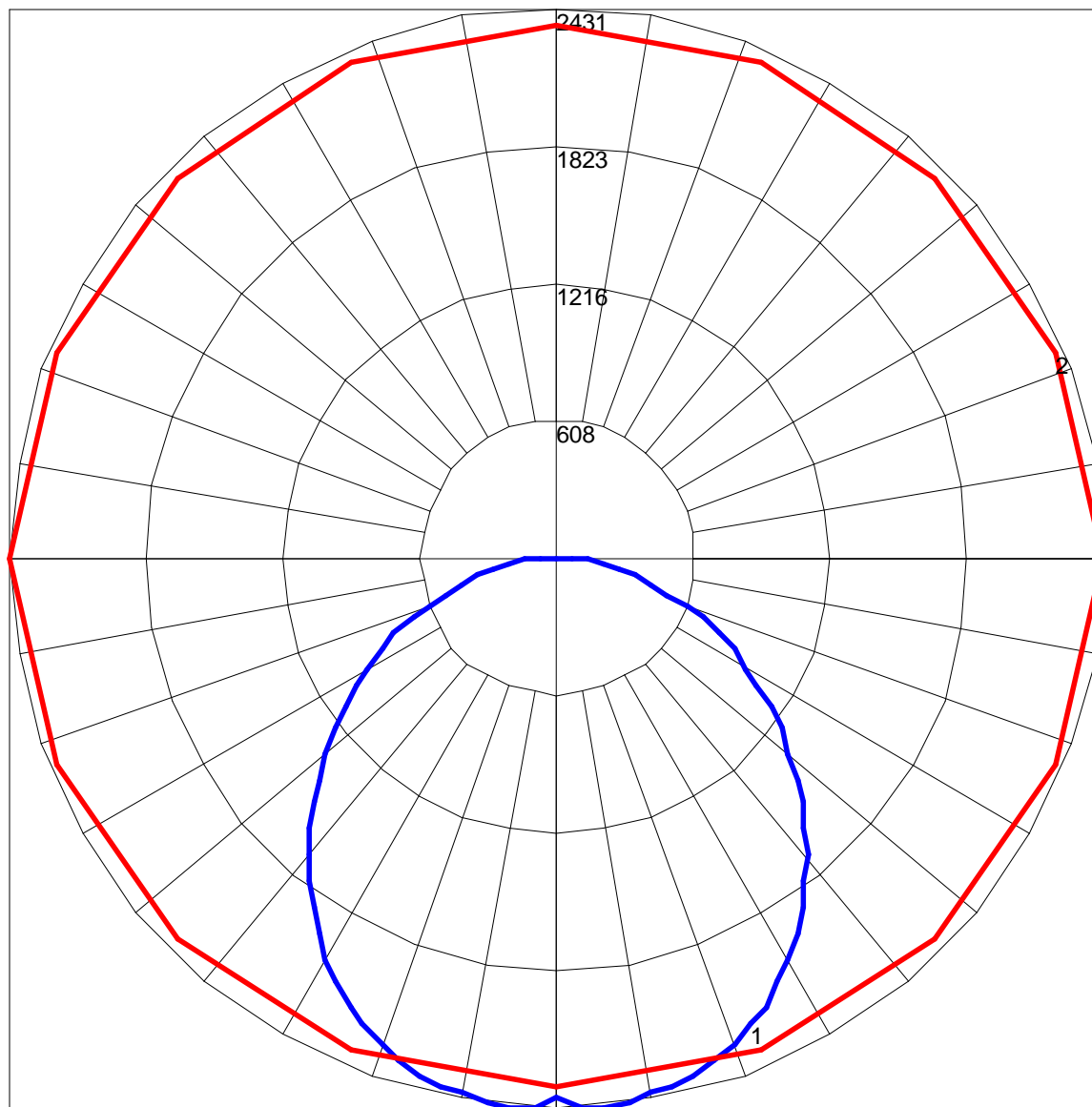
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 108 | 103 | 98 | 94 | 105 | 101 | 96 | 93 | 96 | 93 | 90 | 92 | 90 | 87 | 89 | 87 | 84 | 82 |
| 2 | 98 | 89 | 82 | 76 | 95 | 87 | 81 | 75 | 84 | 78 | 73 | 80 | 76 | 72 | 77 | 73 | 70 | 68 |
| 3 | 89 | 78 | 69 | 63 | 86 | 76 | 68 | 62 | 73 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 56 |
| 4 | 81 | 69 | 60 | 53 | 79 | 67 | 59 | 52 | 65 | 57 | 51 | 62 | 56 | 51 | 60 | 55 | 50 | 48 |
| 5 | 74 | 61 | 52 | 45 | 72 | 60 | 51 | 45 | 58 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 43 | 41 |
| 6 | 69 | 55 | 46 | 39 | 67 | 54 | 45 | 39 | 52 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 36 |
| 7 | 64 | 50 | 41 | 34 | 62 | 49 | 40 | 34 | 47 | 40 | 34 | 46 | 39 | 34 | 44 | 38 | 33 | 31 |
| 8 | 59 | 45 | 37 | 31 | 58 | 45 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 28 |
| 9 | 55 | 41 | 33 | 27 | 54 | 41 | 33 | 27 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 25 |
| 10 | 52 | 38 | 30 | 25 | 50 | 38 | 30 | 25 | 37 | 30 | 25 | 36 | 29 | 25 | 35 | 29 | 24 | 23 |

POLAR GRAPH



Maximum Candela = 2431 Located At Horizontal Angle = 0, Vertical Angle = 2.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)