



IES INDOOR REPORT
PHOTOMETRIC FILENAME : LPASC22-LED-45L-50.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] LED-8808_scaled
[TESTLAB] LSI INDUSTRIES, INC
[ISSUE DATE] 05/07/19
[TEST DATE] 04/21/17
[MANUFACTURER] LSI INDUSTRIES, INC
[LUMEN CATEGORY] LPASC22-LED-45L-50
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
[OTHER] TEST PROCEDURE: IESNA LM-79-08
[OTHER] SCALED FROM ORIGINAL TEST DATA
[SEARCH_SOURCE TYPE] LED
[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 4693 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 124 |
| Total Luminaire Watts | 38 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.26 |
| Spacing Criterion (90-270) | 1.44 |
| Spacing Criterion (Diagonal) | 1.46 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 1.98 ft |
| Luminous Width (90-270) | 1.98 ft |
| Luminous Height | 0.00 ft |

LUMINANCE DATA (cd/sq.m)

| Angle In Degrees | Average 0-Deg | Average 45-Deg | Average 90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45 | 3327 | 3956 | 4566 |
| 55 | 3092 | 4006 | 4963 |
| 65 | 2871 | 4229 | 5580 |
| 75 | 2620 | 4826 | 7255 |
| 85 | 2110 | 5512 | 6489 |

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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 | 1380 | 1380 | 1380 | 1380 | 1380 |
| 2.5 | 1411 | 1400 | 1382 | 1364 | 1357 |
| 5.0 | 1409 | 1398 | 1382 | 1366 | 1360 |
| 7.5 | 1405 | 1393 | 1380 | 1369 | 1362 |
| 10.0 | 1393 | 1387 | 1378 | 1369 | 1366 |
| 12.5 | 1380 | 1373 | 1371 | 1369 | 1366 |
| 15.0 | 1360 | 1357 | 1362 | 1366 | 1369 |
| 17.5 | 1337 | 1337 | 1351 | 1362 | 1369 |
| 20.0 | 1310 | 1315 | 1337 | 1357 | 1364 |
| 22.5 | 1277 | 1288 | 1319 | 1349 | 1357 |
| 25.0 | 1243 | 1259 | 1299 | 1337 | 1351 |
| 27.5 | 1205 | 1223 | 1274 | 1322 | 1340 |
| 30.0 | 1160 | 1185 | 1248 | 1306 | 1326 |
| 32.5 | 1113 | 1144 | 1216 | 1281 | 1308 |
| 35.0 | 1064 | 1099 | 1178 | 1257 | 1288 |
| 37.5 | 1014 | 1055 | 1142 | 1230 | 1263 |
| 40.0 | 960 | 1005 | 1102 | 1198 | 1236 |
| 42.5 | 909 | 958 | 1061 | 1167 | 1207 |
| 45.0 | 857 | 909 | 1019 | 1133 | 1176 |
| 47.5 | 803 | 857 | 974 | 1095 | 1144 |
| 50.0 | 749 | 806 | 929 | 1059 | 1111 |
| 52.5 | 696 | 752 | 884 | 1021 | 1075 |
| 55.0 | 646 | 700 | 837 | 983 | 1037 |
| 57.5 | 590 | 648 | 790 | 940 | 996 |
| 60.0 | 541 | 599 | 743 | 895 | 956 |
| 62.5 | 489 | 547 | 696 | 850 | 909 |
| 65.0 | 442 | 498 | 651 | 801 | 859 |
| 67.5 | 393 | 451 | 601 | 754 | 814 |
| 70.0 | 343 | 402 | 552 | 707 | 781 |
| 72.5 | 294 | 352 | 503 | 666 | 749 |
| 75.0 | 247 | 305 | 455 | 613 | 684 |
| 77.5 | 197 | 260 | 411 | 561 | 631 |
| 80.0 | 153 | 213 | 355 | 464 | 485 |
| 82.5 | 110 | 166 | 276 | 330 | 343 |
| 85.0 | 67 | 110 | 175 | 197 | 206 |
| 87.5 | 31 | 45 | 76 | 99 | 114 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 516.90 | N.A. | 11.00 |
| 0-30 | 1115.09 | N.A. | 23.80 |
| 0-40 | 1852.23 | N.A. | 39.50 |
| 0-60 | 3390.09 | N.A. | 72.20 |
| 0-80 | 4517.27 | N.A. | 96.30 |
| 0-90 | 4693.09 | N.A. | 100.00 |
| 10-90 | 4561.25 | N.A. | 97.20 |
| 20-40 | 1335.33 | N.A. | 28.50 |
| 20-50 | 2121.74 | N.A. | 45.20 |
| 40-70 | 2182.25 | N.A. | 46.50 |
| 60-80 | 1127.17 | N.A. | 24.00 |
| 70-80 | 482.79 | N.A. | 10.30 |
| 80-90 | 175.82 | N.A. | 3.70 |
| 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 | 4693.09 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 131.84 |
| 10-20 | 385.06 |
| 20-30 | 598.19 |
| 30-40 | 737.14 |
| 40-50 | 786.41 |
| 50-60 | 751.45 |
| 60-70 | 644.38 |
| 70-80 | 482.79 |
| 80-90 | 175.82 |
| 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 |

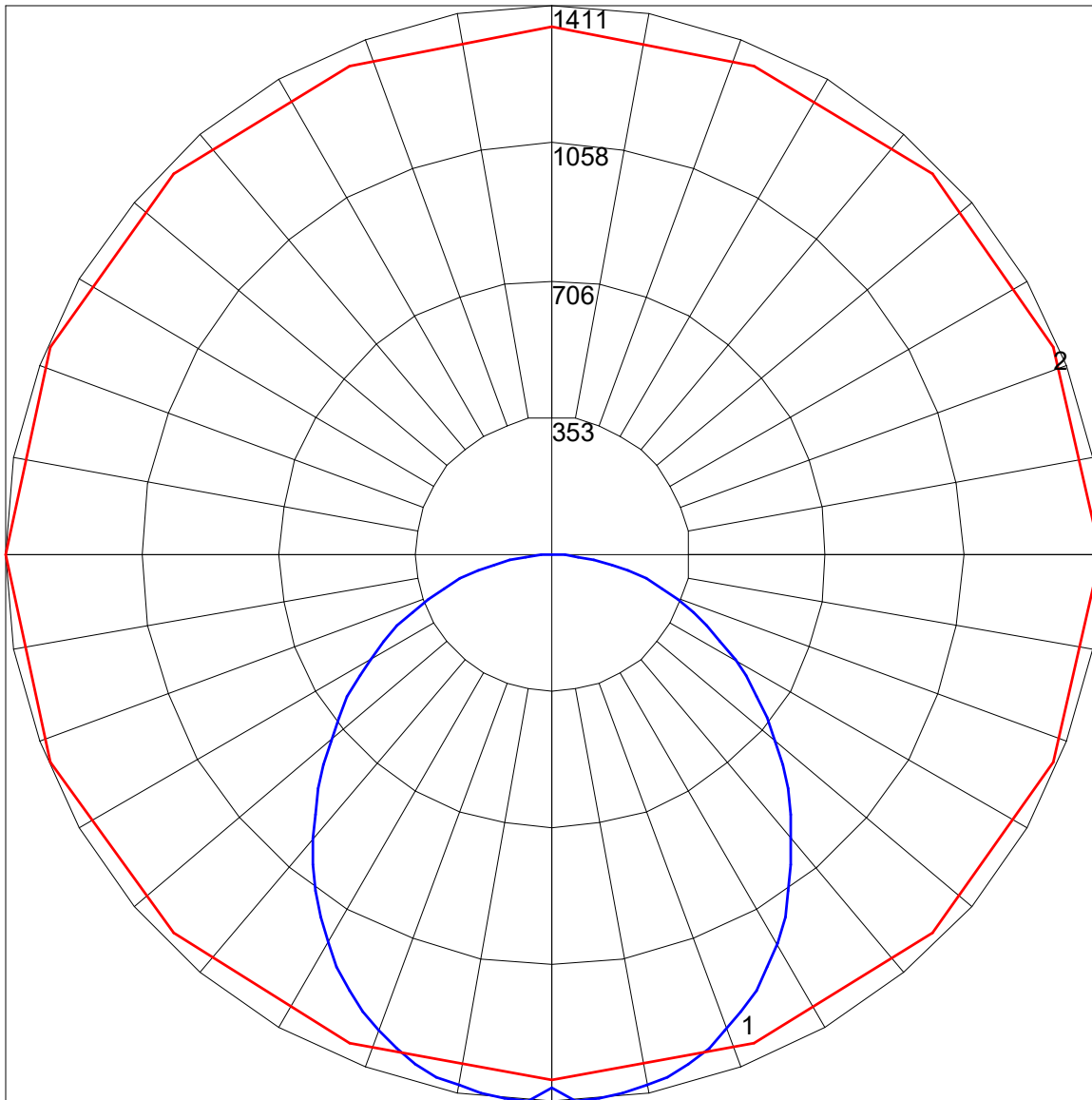
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 107 | 102 | 97 | 92 | 104 | 99 | 95 | 91 | 95 | 91 | 88 | 91 | 88 | 85 | 87 | 85 | 83 | 81 |
| 2 | 97 | 88 | 80 | 74 | 94 | 86 | 79 | 73 | 82 | 76 | 71 | 79 | 74 | 69 | 75 | 71 | 68 | 65 |
| 3 | 88 | 76 | 67 | 60 | 85 | 74 | 66 | 60 | 71 | 64 | 59 | 69 | 63 | 57 | 66 | 61 | 56 | 54 |
| 4 | 80 | 67 | 58 | 50 | 77 | 66 | 57 | 50 | 63 | 55 | 49 | 61 | 54 | 49 | 58 | 53 | 48 | 46 |
| 5 | 73 | 60 | 50 | 43 | 71 | 58 | 49 | 43 | 56 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 41 | 39 |
| 6 | 67 | 53 | 44 | 37 | 65 | 52 | 44 | 37 | 51 | 43 | 37 | 49 | 42 | 36 | 47 | 41 | 36 | 34 |
| 7 | 62 | 48 | 39 | 33 | 61 | 47 | 39 | 33 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 35 | 29 | 56 | 43 | 35 | 29 | 42 | 34 | 29 | 41 | 34 | 29 | 39 | 33 | 28 | 26 |
| 9 | 54 | 40 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 37 | 31 | 26 | 36 | 30 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 49 | 37 | 29 | 23 | 36 | 28 | 23 | 35 | 28 | 23 | 34 | 28 | 23 | 21 |

POLAR GRAPH



Maximum Candela = 1411 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.)