



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPASC24-LED-90L-40.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-8787_scaled

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 05/07/19

[TEST DATE] 04/18/17

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] LPASC24-LED-90L-40

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] TEST PROCEDURE: IESNA LM-79-08

[OTHER] SCALED FROM ORIGINAL TEST DATA

[SEARCH_SOURCETYPE] LED

[SEARCH_APPLICATION] Indoor

CHARACTERISTICS

| | |
|---------------------------------|-----------------|
| Lumens Per Lamp | N.A. (absolute) |
| Total Lamp Lumens | N.A. (absolute) |
| Luminaire Lumens | 9012 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 120 |
| Total Luminaire Watts | 75 |
| Ballast Factor | 1.00 |
| CIE Type | Direct |
| Spacing Criterion (0-180) | 1.28 |
| Spacing Criterion (90-270) | 1.40 |
| Spacing Criterion (Diagonal) | 1.44 |
| Basic Luminous Shape | Rectangular |
| Luminous Length (0-180) | 4.00 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 | 3331 | 3819 | 4215 |
| 55 | 3074 | 3829 | 4426 |
| 65 | 2845 | 3953 | 4799 |
| 75 | 2587 | 4514 | 5883 |
| 85 | 2307 | 5923 | 5923 |

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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 | 2712 | 2712 | 2712 | 2712 | 2712 |
| 2.5 | 2782 | 2740 | 2716 | 2694 | 2672 |
| 5.0 | 2776 | 2736 | 2714 | 2694 | 2674 |
| 7.5 | 2767 | 2732 | 2712 | 2694 | 2676 |
| 10.0 | 2751 | 2716 | 2703 | 2690 | 2676 |
| 12.5 | 2727 | 2696 | 2690 | 2685 | 2672 |
| 15.0 | 2692 | 2665 | 2670 | 2674 | 2665 |
| 17.5 | 2652 | 2630 | 2645 | 2659 | 2652 |
| 20.0 | 2603 | 2590 | 2614 | 2639 | 2636 |
| 22.5 | 2548 | 2541 | 2579 | 2614 | 2619 |
| 25.0 | 2484 | 2488 | 2535 | 2586 | 2594 |
| 27.5 | 2413 | 2426 | 2490 | 2550 | 2563 |
| 30.0 | 2329 | 2353 | 2433 | 2508 | 2528 |
| 32.5 | 2247 | 2278 | 2373 | 2464 | 2484 |
| 35.0 | 2152 | 2194 | 2307 | 2411 | 2437 |
| 37.5 | 2055 | 2103 | 2234 | 2351 | 2387 |
| 40.0 | 1955 | 2011 | 2156 | 2291 | 2327 |
| 42.5 | 1842 | 1911 | 2075 | 2223 | 2265 |
| 45.0 | 1734 | 1807 | 1988 | 2148 | 2194 |
| 47.5 | 1621 | 1705 | 1900 | 2072 | 2119 |
| 50.0 | 1513 | 1601 | 1805 | 1991 | 2041 |
| 52.5 | 1402 | 1495 | 1710 | 1898 | 1953 |
| 55.0 | 1298 | 1393 | 1617 | 1809 | 1869 |
| 57.5 | 1192 | 1289 | 1517 | 1719 | 1774 |
| 60.0 | 1086 | 1186 | 1422 | 1621 | 1679 |
| 62.5 | 984 | 1084 | 1325 | 1528 | 1584 |
| 65.0 | 885 | 980 | 1230 | 1435 | 1493 |
| 67.5 | 781 | 880 | 1132 | 1340 | 1393 |
| 70.0 | 677 | 783 | 1035 | 1241 | 1296 |
| 72.5 | 586 | 694 | 947 | 1155 | 1205 |
| 75.0 | 493 | 608 | 860 | 1059 | 1121 |
| 77.5 | 403 | 524 | 774 | 978 | 1033 |
| 80.0 | 318 | 445 | 690 | 838 | 847 |
| 82.5 | 234 | 363 | 566 | 639 | 628 |
| 85.0 | 148 | 272 | 380 | 387 | 380 |
| 87.5 | 73 | 148 | 173 | 195 | 208 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 1014.01 | N.A. | 11.30 |
| 0-30 | 2183.5 | N.A. | 24.20 |
| 0-40 | 3623.2 | N.A. | 40.20 |
| 0-60 | 6580.32 | N.A. | 73.00 |
| 0-80 | 8655.9 | N.A. | 96.00 |
| 0-90 | 9012.12 | N.A. | 100.00 |
| 10-90 | 8753.06 | N.A. | 97.10 |
| 20-40 | 2609.19 | N.A. | 29.00 |
| 20-50 | 4135.09 | N.A. | 45.90 |
| 40-70 | 4153.39 | N.A. | 46.10 |
| 60-80 | 2075.58 | N.A. | 23.00 |
| 70-80 | 879.31 | N.A. | 9.80 |
| 80-90 | 356.22 | N.A. | 4.00 |
| 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 | 9012.12 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|---------|
| 0-10 | 259.06 |
| 10-20 | 754.95 |
| 20-30 | 1169.49 |
| 30-40 | 1439.7 |
| 40-50 | 1525.91 |
| 50-60 | 1431.21 |
| 60-70 | 1196.27 |
| 70-80 | 879.31 |
| 80-90 | 356.22 |
| 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 |

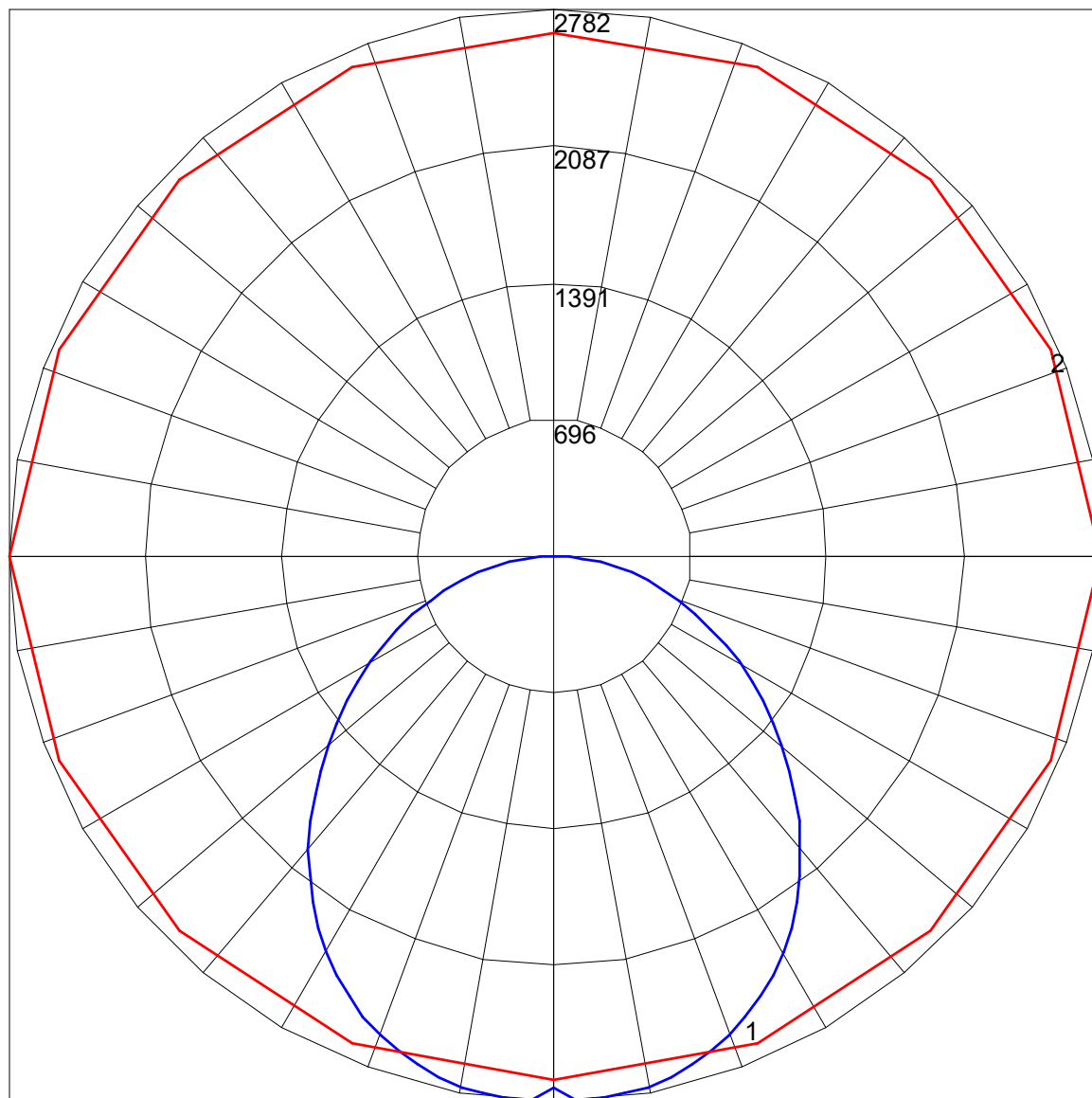
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 93 | 104 | 100 | 95 | 91 | 95 | 92 | 88 | 91 | 88 | 85 | 88 | 85 | 83 | 81 |
| 2 | 97 | 88 | 80 | 74 | 94 | 86 | 79 | 73 | 82 | 76 | 71 | 79 | 74 | 70 | 76 | 72 | 68 | 66 |
| 3 | 88 | 76 | 68 | 61 | 85 | 75 | 67 | 60 | 72 | 65 | 59 | 69 | 63 | 58 | 66 | 61 | 57 | 55 |
| 4 | 80 | 67 | 58 | 51 | 78 | 66 | 57 | 51 | 63 | 56 | 50 | 61 | 54 | 49 | 59 | 53 | 48 | 46 |
| 5 | 74 | 60 | 50 | 44 | 71 | 59 | 50 | 43 | 57 | 49 | 43 | 55 | 48 | 42 | 53 | 47 | 42 | 40 |
| 6 | 68 | 54 | 44 | 38 | 66 | 53 | 44 | 38 | 51 | 43 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 34 |
| 7 | 63 | 49 | 40 | 33 | 61 | 48 | 39 | 33 | 46 | 38 | 33 | 45 | 38 | 33 | 43 | 37 | 32 | 30 |
| 8 | 58 | 44 | 36 | 29 | 57 | 44 | 35 | 29 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 |
| 9 | 55 | 41 | 32 | 26 | 53 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 24 |
| 10 | 51 | 37 | 29 | 24 | 50 | 37 | 29 | 24 | 36 | 29 | 24 | 35 | 28 | 24 | 34 | 28 | 23 | 22 |

POLAR GRAPH



Maximum Candela = 2782 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.)