



IES INDOOR REPORT

PHOTOMETRIC FILENAME : LPASC22-LED-45L-30.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-8808_scaled

[TESTLAB] LSI INDUSTRIES, INC

[ISSUEDATE] 05/07/19

[TESTDATE] 04/21/17

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] LPASC22-LED-45L-30

[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 | 4221 |
| Total Luminaire Efficiency | N.A. |
| Luminaire Efficacy Rating (LER) | 111 |
| 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 | 2993 | 3556 | 4108 |
| 55 | 2781 | 3604 | 4461 |
| 65 | 2585 | 3800 | 5021 |
| 75 | 2355 | 4349 | 6534 |
| 85 | 1921 | 4945 | 5859 |

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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 | 1241 | 1241 | 1241 | 1241 | 1241 |
| 2.5 | 1269 | 1259 | 1243 | 1227 | 1221 |
| 5.0 | 1267 | 1257 | 1243 | 1229 | 1223 |
| 7.5 | 1263 | 1253 | 1241 | 1231 | 1225 |
| 10.0 | 1253 | 1247 | 1239 | 1231 | 1229 |
| 12.5 | 1241 | 1235 | 1233 | 1231 | 1229 |
| 15.0 | 1223 | 1221 | 1225 | 1229 | 1231 |
| 17.5 | 1203 | 1203 | 1215 | 1225 | 1231 |
| 20.0 | 1179 | 1183 | 1203 | 1221 | 1227 |
| 22.5 | 1148 | 1158 | 1187 | 1213 | 1221 |
| 25.0 | 1118 | 1132 | 1169 | 1203 | 1215 |
| 27.5 | 1084 | 1100 | 1146 | 1189 | 1205 |
| 30.0 | 1043 | 1066 | 1122 | 1175 | 1193 |
| 32.5 | 1001 | 1029 | 1094 | 1152 | 1177 |
| 35.0 | 957 | 989 | 1060 | 1130 | 1158 |
| 37.5 | 912 | 949 | 1027 | 1106 | 1136 |
| 40.0 | 864 | 904 | 991 | 1078 | 1112 |
| 42.5 | 817 | 862 | 955 | 1049 | 1086 |
| 45.0 | 771 | 817 | 916 | 1019 | 1058 |
| 47.5 | 723 | 771 | 876 | 985 | 1029 |
| 50.0 | 674 | 725 | 836 | 953 | 999 |
| 52.5 | 626 | 676 | 795 | 918 | 967 |
| 55.0 | 581 | 630 | 753 | 884 | 932 |
| 57.5 | 531 | 583 | 710 | 846 | 896 |
| 60.0 | 486 | 539 | 668 | 805 | 860 |
| 62.5 | 440 | 492 | 626 | 765 | 817 |
| 65.0 | 398 | 448 | 585 | 720 | 773 |
| 67.5 | 353 | 406 | 541 | 678 | 733 |
| 70.0 | 309 | 361 | 496 | 636 | 702 |
| 72.5 | 264 | 317 | 452 | 599 | 674 |
| 75.0 | 222 | 274 | 410 | 551 | 616 |
| 77.5 | 178 | 234 | 369 | 505 | 567 |
| 80.0 | 137 | 192 | 319 | 418 | 436 |
| 82.5 | 99 | 149 | 248 | 297 | 309 |
| 85.0 | 61 | 99 | 157 | 178 | 186 |
| 87.5 | 28 | 40 | 69 | 89 | 103 |
| 90.0 | 0 | 0 | 0 | 0 | 0 |

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ZONAL LUMEN SUMMARY

| Zone | Lumens | %Lamp | %Fixt |
|---------|---------|-------|--------|
| 0-20 | 464.92 | N.A. | 11.00 |
| 0-30 | 1002.99 | N.A. | 23.80 |
| 0-40 | 1666.02 | N.A. | 39.50 |
| 0-60 | 3049.28 | N.A. | 72.20 |
| 0-80 | 4063.1 | N.A. | 96.30 |
| 0-90 | 4221.36 | N.A. | 100.00 |
| 10-90 | 4102.8 | N.A. | 97.20 |
| 20-40 | 1201.1 | N.A. | 28.50 |
| 20-50 | 1908.47 | N.A. | 45.20 |
| 40-70 | 1962.84 | N.A. | 46.50 |
| 60-80 | 1013.82 | N.A. | 24.00 |
| 70-80 | 434.24 | N.A. | 10.30 |
| 80-90 | 158.26 | 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 | 4221.36 | N.A. | 100.00 |

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

| Zone | Lumens |
|---------|--------|
| 0-10 | 118.56 |
| 10-20 | 346.36 |
| 20-30 | 538.07 |
| 30-40 | 663.03 |
| 40-50 | 707.37 |
| 50-60 | 675.89 |
| 60-70 | 579.58 |
| 70-80 | 434.24 |
| 80-90 | 158.26 |
| 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 |

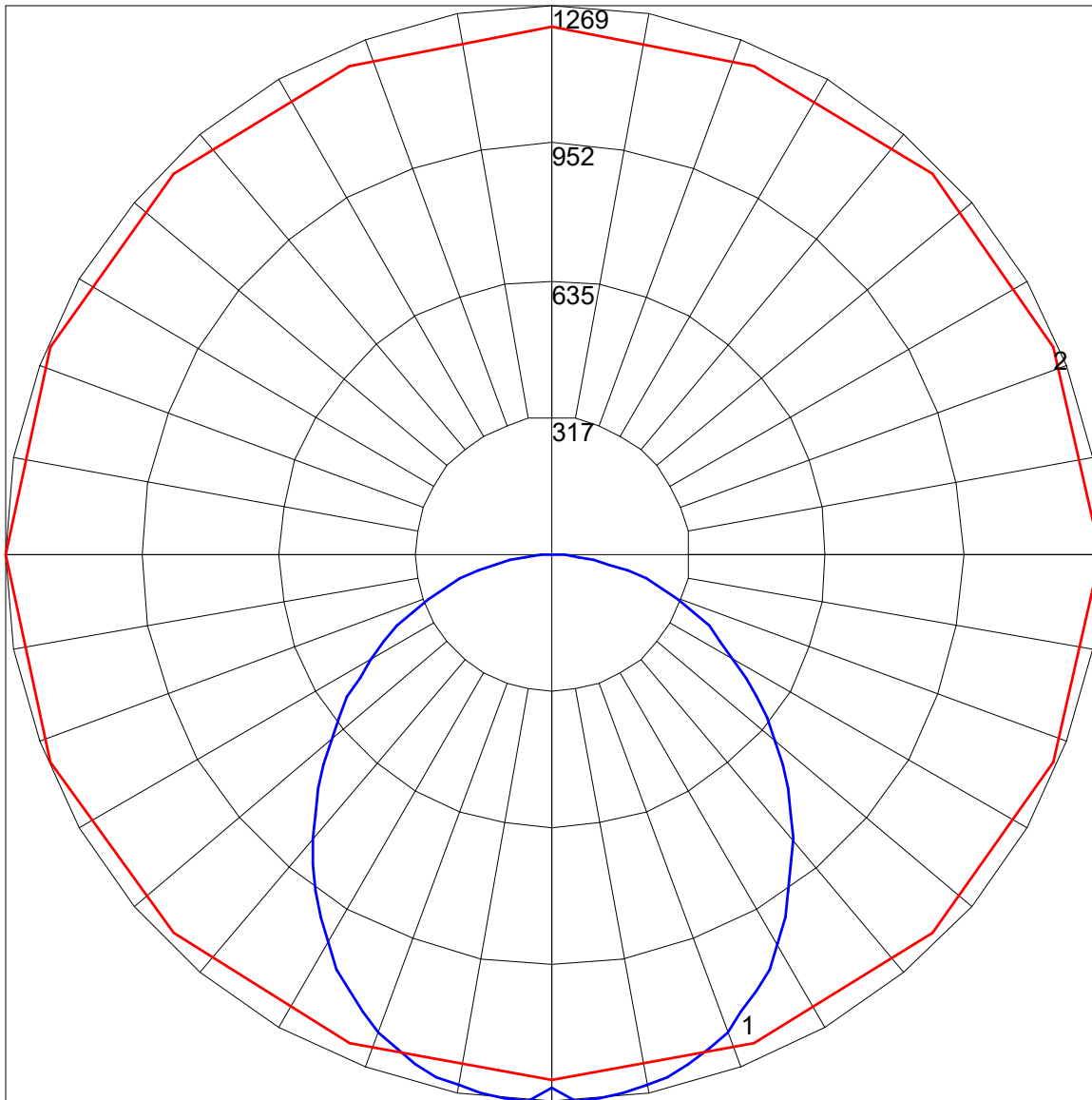
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 1269 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.)