



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LPASC22-LED-20L-40.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]LED-8808  
[TESTLAB]LSI INDUSTRIES, INC  
[ISSUE DATE]04/21/17  
[TEST DATE]04/21/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMEN CATEGORY]LPASC22-LED-20L-40  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2092            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 115             |
| Total Luminaire Watts           | 18.2            |
| 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<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 1483             | 1763              | 2034              |
| 55                  | 1378             | 1785              | 2211              |
| 65                  | 1280             | 1884              | 2488              |
| 75                  | 1167             | 2153              | 3235              |
| 85                  | 945              | 2457              | 2898              |

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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> |
|-------------|------------|-------------|-------------|-------------|-------------|
| <b>0.0</b>  | 615        | 615         | 615         | 615         | 615         |
| <b>2.5</b>  | 629        | 624         | 616         | 608         | 605         |
| <b>5.0</b>  | 628        | 623         | 616         | 609         | 606         |
| <b>7.5</b>  | 626        | 621         | 615         | 610         | 607         |
| <b>10.0</b> | 621        | 618         | 614         | 610         | 609         |
| <b>12.5</b> | 615        | 612         | 611         | 610         | 609         |
| <b>15.0</b> | 606        | 605         | 607         | 609         | 610         |
| <b>17.5</b> | 596        | 596         | 602         | 607         | 610         |
| <b>20.0</b> | 584        | 586         | 596         | 605         | 608         |
| <b>22.5</b> | 569        | 574         | 588         | 601         | 605         |
| <b>25.0</b> | 554        | 561         | 579         | 596         | 602         |
| <b>27.5</b> | 537        | 545         | 568         | 589         | 597         |
| <b>30.0</b> | 517        | 528         | 556         | 582         | 591         |
| <b>32.5</b> | 496        | 510         | 542         | 571         | 583         |
| <b>35.0</b> | 474        | 490         | 525         | 560         | 574         |
| <b>37.5</b> | 452        | 470         | 509         | 548         | 563         |
| <b>40.0</b> | 428        | 448         | 491         | 534         | 551         |
| <b>42.5</b> | 405        | 427         | 473         | 520         | 538         |
| <b>45.0</b> | 382        | 405         | 454         | 505         | 524         |
| <b>47.5</b> | 358        | 382         | 434         | 488         | 510         |
| <b>50.0</b> | 334        | 359         | 414         | 472         | 495         |
| <b>52.5</b> | 310        | 335         | 394         | 455         | 479         |
| <b>55.0</b> | 288        | 312         | 373         | 438         | 462         |
| <b>57.5</b> | 263        | 289         | 352         | 419         | 444         |
| <b>60.0</b> | 241        | 267         | 331         | 399         | 426         |
| <b>62.5</b> | 218        | 244         | 310         | 379         | 405         |
| <b>65.0</b> | 197        | 222         | 290         | 357         | 383         |
| <b>67.5</b> | 175        | 201         | 268         | 336         | 363         |
| <b>70.0</b> | 153        | 179         | 246         | 315         | 348         |
| <b>72.5</b> | 131        | 157         | 224         | 297         | 334         |
| <b>75.0</b> | 110        | 136         | 203         | 273         | 305         |
| <b>77.5</b> | 88         | 116         | 183         | 250         | 281         |
| <b>80.0</b> | 68         | 95          | 158         | 207         | 216         |
| <b>82.5</b> | 49         | 74          | 123         | 147         | 153         |
| <b>85.0</b> | 30         | 49          | 78          | 88          | 92          |
| <b>87.5</b> | 14         | 20          | 34          | 44          | 51          |
| <b>90.0</b> | 0          | 0           | 0           | 0           | 0           |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 230.38  | N.A.  | 11.00  |
| 0-30    | 496.97  | N.A.  | 23.80  |
| 0-40    | 825.49  | N.A.  | 39.50  |
| 0-60    | 1510.86 | N.A.  | 72.20  |
| 0-80    | 2013.23 | N.A.  | 96.30  |
| 0-90    | 2091.62 | N.A.  | 100.00 |
| 10-90   | 2032.86 | N.A.  | 97.20  |
| 20-40   | 595.11  | N.A.  | 28.50  |
| 20-50   | 945.59  | N.A.  | 45.20  |
| 40-70   | 972.57  | N.A.  | 46.50  |
| 60-80   | 502.37  | N.A.  | 24.00  |
| 70-80   | 215.17  | N.A.  | 10.30  |
| 80-90   | 78.39   | 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   | 2091.62 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 58.76  |
| 10-20   | 171.62 |
| 20-30   | 266.60 |
| 30-40   | 328.52 |
| 40-50   | 350.48 |
| 50-60   | 334.89 |
| 60-70   | 287.20 |
| 70-80   | 215.17 |
| 80-90   | 78.39  |
| 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   |

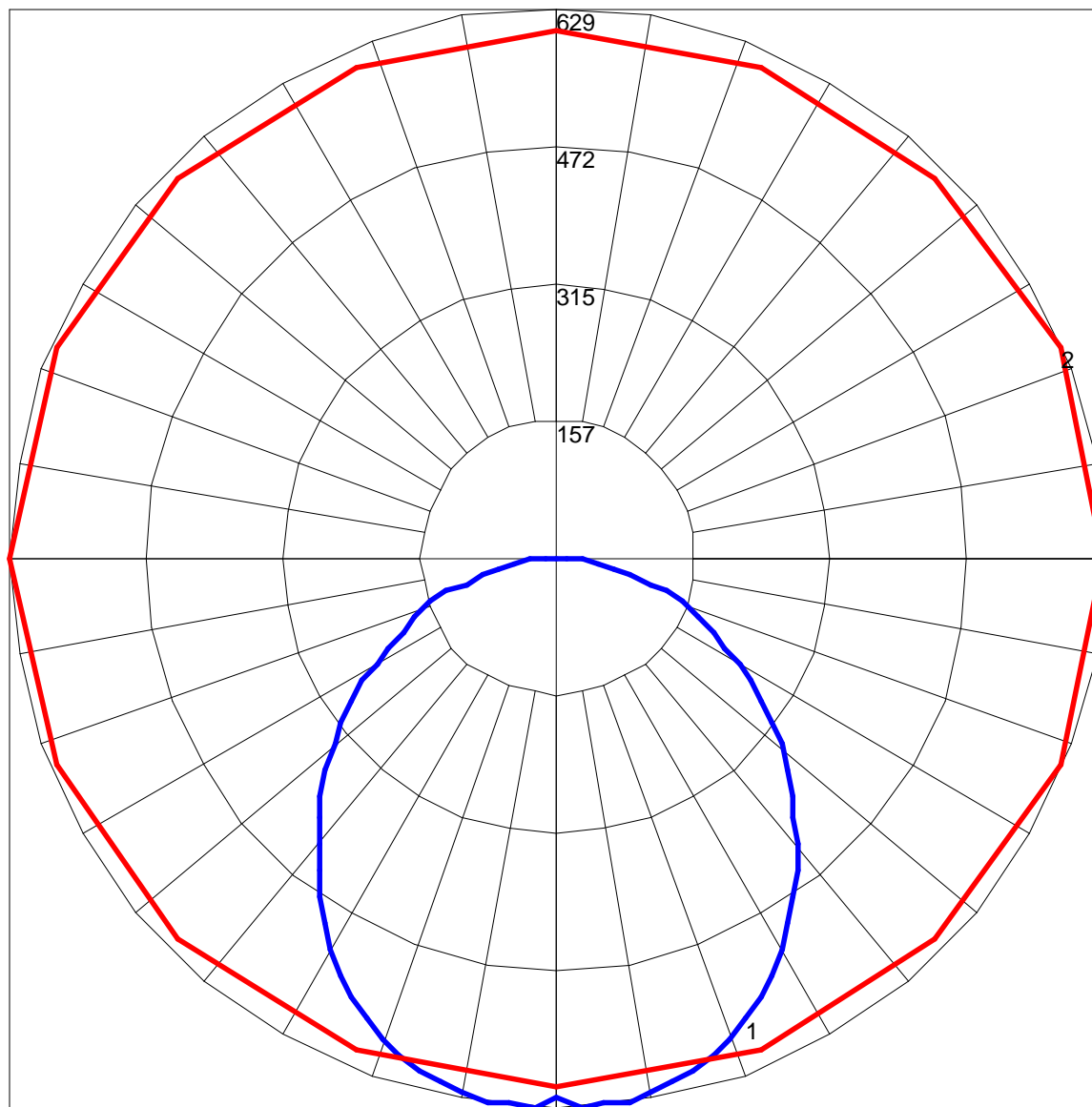
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 107 | 102 | 97  | 92  | 104 | 99  | 95  | 91  | 95  | 91  | 88  | 91  | 88  | 85  | 87  | 85  | 83  | 81  |
| 2  | 97  | 87  | 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 = 629 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.)