



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : LDI-4-LED-3070-PL-SS-35.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST]  
[TESTLAB]Dekko  
[ISSUE DATE]06-19-2017  
[TEST DATE]03/8/17  
[MANUFACTURER]LSI INDUSTRIES, INC  
[LUMCAT] LDI-4-LED-3070-PL-SS-35  
[ABSOLUTE]NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.  
[OTHER]TEST PROCEDURE: IESNA LM-79-08  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2439            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 64              |
| Total Luminaire Watts           | 38.4            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Semi-Direct     |
| Spacing Criterion (0-180)       | 1.26            |
| Spacing Criterion (90-270)      | 1.30            |
| Spacing Criterion (Diagonal)    | 1.34            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 4.00 ft         |
| Luminous Width (90-270)         | 0.75 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                  | 2063             | 2087              | 2399              |
| 55                  | 1661             | 1910              | 2369              |
| 65                  | 514              | 1462              | 2667              |
| 75                  | 188              | 343               | 1625              |
| 85                  | 197              | 263               | 394               |

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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   | 660.744    | 660.744     | 660.744     | 660.744     | 660.744     |
| 2.5   | 675.906    | 665.532     | 660.744     | 655.158     | 651.168     |
| 5.0   | 675.108    | 665.532     | 659.946     | 654.360     | 650.370     |
| 7.5   | 672.714    | 662.340     | 655.956     | 648.774     | 643.986     |
| 10.0  | 667.128    | 656.754     | 647.976     | 641.592     | 636.804     |
| 12.5  | 659.148    | 648.774     | 638.400     | 633.612     | 630.420     |
| 15.0  | 648.774    | 637.602     | 628.824     | 626.430     | 624.036     |
| 17.5  | 636.804    | 623.238     | 616.854     | 617.652     | 616.854     |
| 20.0  | 624.036    | 609.672     | 604.086     | 608.874     | 609.672     |
| 22.5  | 608.874    | 594.510     | 590.520     | 598.500     | 602.490     |
| 25.0  | 592.914    | 577.752     | 574.560     | 587.328     | 592.914     |
| 27.5  | 576.156    | 560.196     | 559.398     | 574.560     | 582.540     |
| 30.0  | 557.004    | 541.044     | 542.640     | 560.994     | 572.166     |
| 32.5  | 536.256    | 520.296     | 523.488     | 545.034     | 558.600     |
| 35.0  | 513.114    | 497.952     | 503.538     | 528.276     | 544.236     |
| 37.5  | 489.174    | 474.012     | 481.992     | 509.124     | 529.074     |
| 40.0  | 463.638    | 449.274     | 459.648     | 489.174     | 512.316     |
| 42.5  | 435.708    | 422.940     | 435.708     | 468.426     | 493.962     |
| 45.0  | 406.980    | 394.212     | 411.768     | 446.082     | 473.214     |
| 47.5  | 377.454    | 364.686     | 385.434     | 421.344     | 451.668     |
| 50.0  | 343.938    | 334.362     | 359.100     | 397.404     | 429.324     |
| 52.5  | 307.230    | 302.442     | 331.968     | 371.070     | 405.384     |
| 55.0  | 265.734    | 267.330     | 305.634     | 345.534     | 379.050     |
| 57.5  | 217.854    | 228.228     | 278.502     | 318.402     | 351.120     |
| 60.0  | 161.994    | 182.742     | 248.178     | 293.664     | 328.776     |
| 62.5  | 105.336    | 131.670     | 213.864     | 272.118     | 323.190     |
| 65.0  | 60.648     | 81.396      | 172.368     | 258.552     | 314.412     |
| 67.5  | 39.900     | 47.880      | 122.094     | 233.016     | 293.664     |
| 70.0  | 26.334     | 31.920      | 73.416      | 190.722     | 273.714     |
| 72.5  | 19.152     | 22.344      | 39.900      | 131.670     | 239.400     |
| 75.0  | 13.566     | 16.758      | 24.738      | 68.628      | 117.306     |
| 77.5  | 10.374     | 12.768      | 16.758      | 30.324      | 63.840      |
| 80.0  | 7.980      | 9.576       | 11.970      | 18.354      | 35.112      |
| 82.5  | 5.586      | 7.182       | 8.778       | 11.970      | 19.152      |
| 85.0  | 4.788      | 7.182       | 6.384       | 7.182       | 9.576       |
| 87.5  | 3.192      | 4.788       | 5.586       | 3.990       | 4.788       |
| 90.0  | 2.394      | 4.788       | 6.384       | 3.990       | 3.192       |
| 92.5  | 12.768     | 31.122      | 34.314      | 15.162      | 15.162      |
| 95.0  | 19.950     | 43.890      | 55.860      | 59.052      | 59.850      |
| 97.5  | 27.132     | 50.274      | 67.032      | 56.658      | 43.092      |
| 100.0 | 36.708     | 60.648      | 76.608      | 67.830      | 62.244      |
| 102.5 | 47.082     | 71.022      | 85.386      | 90.972      | 82.992      |
| 105.0 | 56.658     | 81.396      | 96.558      | 106.932     | 101.346     |
| 107.5 | 65.436     | 90.972      | 110.124     | 120.498     | 122.094     |
| 110.0 | 75.012     | 98.952      | 120.498     | 134.064     | 130.872     |
| 112.5 | 82.992     | 106.932     | 130.872     | 147.630     | 142.044     |
| 115.0 | 91.770     | 113.316     | 138.852     | 154.014     | 150.822     |
| 117.5 | 100.548    | 119.700     | 142.842     | 156.408     | 158.802     |
| 120.0 | 107.730    | 127.680     | 146.034     | 159.600     | 163.590     |
| 122.5 | 114.912    | 130.872     | 151.620     | 163.590     | 167.580     |
| 125.0 | 121.296    | 134.862     | 157.206     | 167.580     | 169.974     |
| 127.5 | 126.882    | 137.256     | 161.196     | 169.176     | 172.368     |
| 130.0 | 132.468    | 141.246     | 163.590     | 171.570     | 173.964     |
| 132.5 | 136.458    | 144.438     | 164.388     | 173.166     | 175.560     |

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**CANDELA TABULATION - (Cont.)**

|              |         |         |         |         |         |
|--------------|---------|---------|---------|---------|---------|
| <b>135.0</b> | 141.246 | 147.630 | 164.388 | 174.762 | 175.560 |
| <b>137.5</b> | 145.236 | 150.024 | 164.388 | 175.560 | 174.762 |
| <b>140.0</b> | 148.428 | 152.418 | 165.186 | 175.560 | 173.964 |
| <b>142.5</b> | 152.418 | 154.014 | 165.984 | 174.762 | 173.964 |
| <b>145.0</b> | 154.812 | 154.812 | 165.186 | 173.964 | 172.368 |
| <b>147.5</b> | 156.408 | 157.206 | 165.186 | 172.368 | 170.772 |
| <b>150.0</b> | 158.802 | 160.398 | 163.590 | 169.974 | 168.378 |
| <b>152.5</b> | 161.994 | 161.994 | 162.792 | 167.580 | 165.984 |
| <b>155.0</b> | 163.590 | 162.792 | 161.994 | 165.186 | 162.792 |
| <b>157.5</b> | 164.388 | 162.792 | 161.994 | 162.792 | 160.398 |
| <b>160.0</b> | 165.186 | 163.590 | 162.792 | 161.994 | 159.600 |
| <b>162.5</b> | 165.984 | 164.388 | 163.590 | 161.196 | 158.802 |
| <b>165.0</b> | 166.782 | 165.186 | 163.590 | 160.398 | 158.004 |
| <b>167.5</b> | 165.984 | 164.388 | 162.792 | 160.398 | 158.004 |
| <b>170.0</b> | 165.186 | 162.792 | 161.196 | 159.600 | 158.004 |
| <b>172.5</b> | 163.590 | 161.196 | 160.398 | 158.802 | 158.004 |
| <b>175.0</b> | 162.792 | 160.398 | 159.600 | 158.004 | 157.206 |
| <b>177.5</b> | 161.196 | 159.600 | 158.802 | 158.004 | 156.408 |
| <b>180.0</b> | 158.004 | 158.004 | 158.004 | 158.004 | 158.004 |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 241.02  | N.A.  | 9.90   |
| 0-30    | 509.84  | N.A.  | 20.90  |
| 0-40    | 831.46  | N.A.  | 34.10  |
| 0-60    | 1432.88 | N.A.  | 58.80  |
| 0-80    | 1662.11 | N.A.  | 68.20  |
| 0-90    | 1670.71 | N.A.  | 68.50  |
| 10-90   | 1608.03 | N.A.  | 65.90  |
| 20-40   | 590.44  | N.A.  | 24.20  |
| 20-50   | 916.17  | N.A.  | 37.60  |
| 40-70   | 774.89  | N.A.  | 31.80  |
| 60-80   | 229.24  | N.A.  | 9.40   |
| 70-80   | 55.76   | N.A.  | 2.30   |
| 80-90   | 8.60    | N.A.  | 0.40   |
| 90-110  | 138.97  | N.A.  | 5.70   |
| 90-120  | 268.26  | N.A.  | 11.00  |
| 90-130  | 403.21  | N.A.  | 16.50  |
| 90-150  | 631.04  | N.A.  | 25.90  |
| 90-180  | 768.05  | N.A.  | 31.50  |
| 110-180 | 629.09  | N.A.  | 25.80  |
| 0-180   | 2438.77 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 62.69  |
| 10-20   | 178.33 |
| 20-30   | 268.83 |
| 30-40   | 321.61 |
| 40-50   | 325.73 |
| 50-60   | 275.69 |
| 60-70   | 173.47 |
| 70-80   | 55.76  |
| 80-90   | 8.60   |
| 90-100  | 43.48  |
| 100-110 | 95.49  |
| 110-120 | 129.29 |
| 120-130 | 134.96 |
| 130-140 | 124.58 |
| 140-150 | 103.25 |
| 150-160 | 75.64  |
| 160-170 | 46.09  |
| 170-180 | 15.28  |

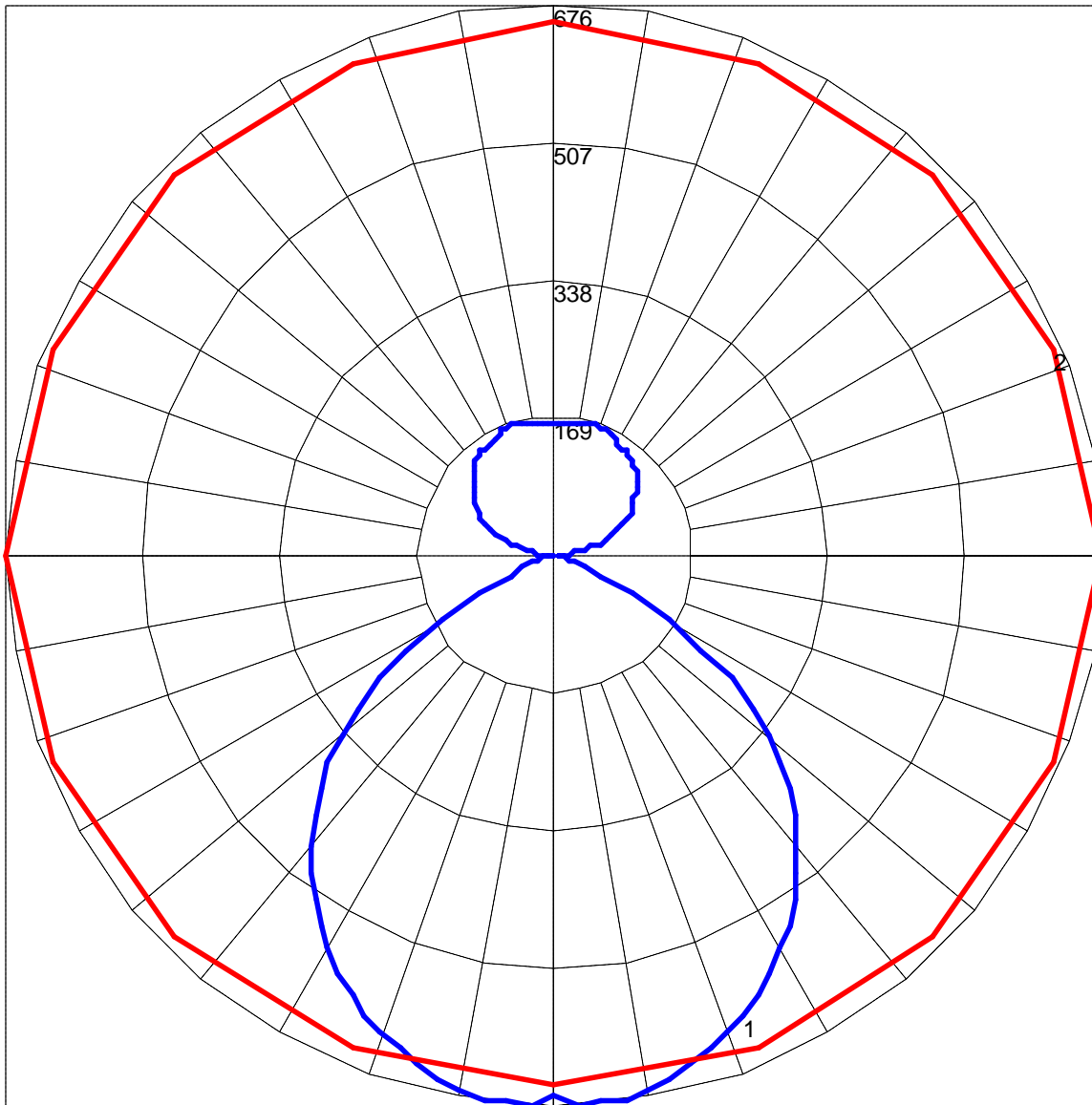
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 112 | 112 | 112 | 112 | 105 | 105 | 105 | 105 | 94 | 94 | 94 | 83 | 83 | 83 | 73 | 73 | 73 | 68 |
| 1  | 103 | 99  | 95  | 91  | 97  | 93  | 90  | 87  | 83 | 81 | 79 | 74 | 72 | 71 | 66 | 65 | 63 | 59 |
| 2  | 94  | 87  | 81  | 76  | 88  | 82  | 77  | 72  | 74 | 69 | 66 | 66 | 63 | 60 | 59 | 56 | 54 | 50 |
| 3  | 86  | 76  | 69  | 63  | 81  | 73  | 66  | 61  | 65 | 60 | 56 | 58 | 54 | 51 | 52 | 49 | 46 | 43 |
| 4  | 79  | 68  | 60  | 54  | 74  | 65  | 57  | 52  | 58 | 52 | 48 | 52 | 48 | 44 | 47 | 43 | 40 | 37 |
| 5  | 72  | 61  | 52  | 46  | 68  | 58  | 50  | 45  | 52 | 46 | 41 | 47 | 42 | 38 | 42 | 38 | 35 | 32 |
| 6  | 67  | 55  | 46  | 40  | 63  | 52  | 44  | 39  | 47 | 41 | 36 | 42 | 37 | 34 | 38 | 34 | 31 | 28 |
| 7  | 62  | 49  | 41  | 36  | 58  | 47  | 40  | 34  | 43 | 37 | 32 | 39 | 34 | 30 | 35 | 31 | 27 | 25 |
| 8  | 57  | 45  | 37  | 32  | 54  | 43  | 36  | 31  | 39 | 33 | 29 | 35 | 30 | 27 | 32 | 28 | 25 | 22 |
| 9  | 54  | 41  | 33  | 28  | 51  | 39  | 32  | 27  | 36 | 30 | 26 | 33 | 28 | 24 | 30 | 25 | 22 | 20 |
| 10 | 50  | 38  | 30  | 25  | 47  | 36  | 29  | 25  | 33 | 27 | 23 | 30 | 25 | 22 | 27 | 23 | 20 | 18 |

POLAR GRAPH



Maximum Candela = 675.906 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.)

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