



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : R2L22LFA35.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST]1411031240-004P  
[TESTLAB]Intertek  
[ISSUEDATE]11/10/2014  
[LUMCAT]1411031240-004 MOD: R2L22LFA35/S2L22LFA35  
[LUMINAIRE]LED RECESSED/SURFACE 2X2  
[LAMP]LED  
[LAMPCAT]NA. LUMINAIRE OUTPUT = 2679 LMS  
[OTHER]120.02 VAC, 223.20 mA, 26.691 W, 0.9963 PF  
[MANUFAC] LAMAR LIGHTING CO., INC.  
[ \_SEARCH\_SOURCE] LED  
[ \_SEARCH\_APPLICATION] Indoor  
[ \_SEARCH\_MOUNTING] Recessed

### CHARACTERISTICS

|                                 |                 |
|---------------------------------|-----------------|
| Lumens Per Lamp                 | N.A. (absolute) |
| Total Lamp Lumens               | N.A. (absolute) |
| Luminaire Lumens                | 2679            |
| Total Luminaire Efficiency      | N.A.            |
| Luminaire Efficacy Rating (LER) | 100             |
| Total Luminaire Watts           | 26.7            |
| Ballast Factor                  | 1.00            |
| CIE Type                        | Direct          |
| Spacing Criterion (0-180)       | 1.18            |
| Spacing Criterion (90-270)      | 1.26            |
| Spacing Criterion (Diagonal)    | 1.32            |
| Basic Luminous Shape            | Rectangular     |
| Luminous Length (0-180)         | 1.92 ft         |
| Luminous Width (90-270)         | 1.83 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                  | 2298             | 2664              | 2937              |
| 55                  | 1883             | 2479              | 2896              |
| 65                  | 1540             | 2406              | 2859              |
| 75                  | 1213             | 2318              | 2284              |
| 85                  | 764              | 1258              | 735               |

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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   | 1027.534   | 1027.534    | 1027.534    | 1027.534    | 1027.534    |
| 2.5   | 1026.309   | 1030.802    | 1028.555    | 1024.880    | 1023.553    |
| 5.0   | 1024.471   | 1029.066    | 1026.513    | 1021.511    | 1020.285    |
| 7.5   | 1018.754   | 1022.940    | 1022.429    | 1016.916    | 1015.385    |
| 10.0  | 1003.337   | 1009.871    | 1012.219    | 1009.565    | 1007.523    |
| 12.5  | 987.715    | 993.637     | 1000.070    | 999.865     | 997.517     |
| 15.0  | 969.848    | 976.587     | 983.019     | 988.022     | 985.367     |
| 17.5  | 949.734    | 957.085     | 965.662     | 973.319     | 972.196     |
| 20.0  | 925.741    | 934.726     | 945.957     | 956.575     | 956.677     |
| 22.5  | 897.663    | 908.282     | 923.597     | 935.747     | 937.482     |
| 25.0  | 866.829    | 878.366     | 897.255     | 911.753     | 916.143     |
| 27.5  | 832.830    | 845.490     | 868.361     | 886.841     | 893.375     |
| 30.0  | 795.870    | 810.470     | 837.526     | 859.580     | 867.646     |
| 32.5  | 756.969    | 773.101     | 805.263     | 831.809     | 841.100     |
| 35.0  | 715.415    | 733.180     | 770.242     | 800.668     | 811.389     |
| 37.5  | 671.308    | 691.217     | 733.384     | 767.486     | 779.227     |
| 40.0  | 625.669    | 648.131     | 694.791     | 732.568     | 746.045     |
| 42.5  | 578.703    | 604.228     | 654.972     | 696.833     | 712.352     |
| 45.0  | 531.022    | 561.142     | 615.459     | 660.995     | 678.557     |
| 47.5  | 483.954    | 518.566     | 576.048     | 625.363     | 644.557     |
| 50.0  | 438.315    | 476.807     | 537.659     | 589.730     | 609.945     |
| 52.5  | 394.412    | 436.069     | 500.392     | 554.709     | 575.742     |
| 55.0  | 352.858    | 396.863     | 464.657     | 520.812     | 542.764     |
| 57.5  | 314.060    | 359.392     | 430.862     | 487.630     | 510.092     |
| 60.0  | 278.120    | 323.657     | 397.577     | 454.958     | 474.152     |
| 62.5  | 243.917    | 288.943     | 364.905     | 419.018     | 434.436     |
| 65.0  | 212.674    | 254.842     | 332.233     | 380.220     | 394.719     |
| 67.5  | 182.351    | 221.557     | 298.949     | 342.239     | 354.185     |
| 70.0  | 153.865    | 190.314     | 264.337     | 304.156     | 309.976     |
| 72.5  | 127.012    | 160.603     | 230.440     | 261.887     | 256.679     |
| 75.0  | 102.611    | 132.526     | 196.032     | 211.551     | 193.173     |
| 77.5  | 80.251     | 105.469     | 159.174     | 153.661     | 130.994     |
| 80.0  | 59.218     | 79.434      | 118.844     | 98.322      | 80.557      |
| 82.5  | 39.206     | 54.215      | 75.554      | 54.828      | 45.128      |
| 85.0  | 21.747     | 29.711      | 35.837      | 24.504      | 20.931      |
| 87.5  | 7.147      | 7.453       | 7.351       | 5.820       | 5.207       |
| 90.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 92.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 95.0  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 97.5  | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 100.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 102.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 105.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 107.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 110.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 112.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 115.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 117.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 120.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 122.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 125.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 127.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 130.0 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |
| 132.5 | 0.000      | 0.000       | 0.000       | 0.000       | 0.000       |

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**CANDELA TABULATION - (Cont.)**

|              |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|
| <b>135.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>137.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>140.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>142.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>145.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>147.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>150.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>152.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>155.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>157.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>160.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>162.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>165.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>167.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>170.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>172.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>175.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>177.5</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| <b>180.0</b> | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 374.16  | N.A.  | 14.00  |
| 0-30    | 785.97  | N.A.  | 29.30  |
| 0-40    | 1264.94 | N.A.  | 47.20  |
| 0-60    | 2146.46 | N.A.  | 80.10  |
| 0-80    | 2641.33 | N.A.  | 98.60  |
| 0-90    | 2678.58 | N.A.  | 100.00 |
| 10-90   | 2581.22 | N.A.  | 96.40  |
| 20-40   | 890.78  | N.A.  | 33.30  |
| 20-50   | 1362.15 | N.A.  | 50.90  |
| 40-70   | 1196.14 | N.A.  | 44.70  |
| 60-80   | 494.86  | N.A.  | 18.50  |
| 70-80   | 180.25  | N.A.  | 6.70   |
| 80-90   | 37.25   | N.A.  | 1.40   |
| 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   | 2678.58 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 97.36  |
| 10-20   | 276.80 |
| 20-30   | 411.81 |
| 30-40   | 478.97 |
| 40-50   | 471.37 |
| 50-60   | 410.15 |
| 60-70   | 314.61 |
| 70-80   | 180.25 |
| 80-90   | 37.25  |
| 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   |

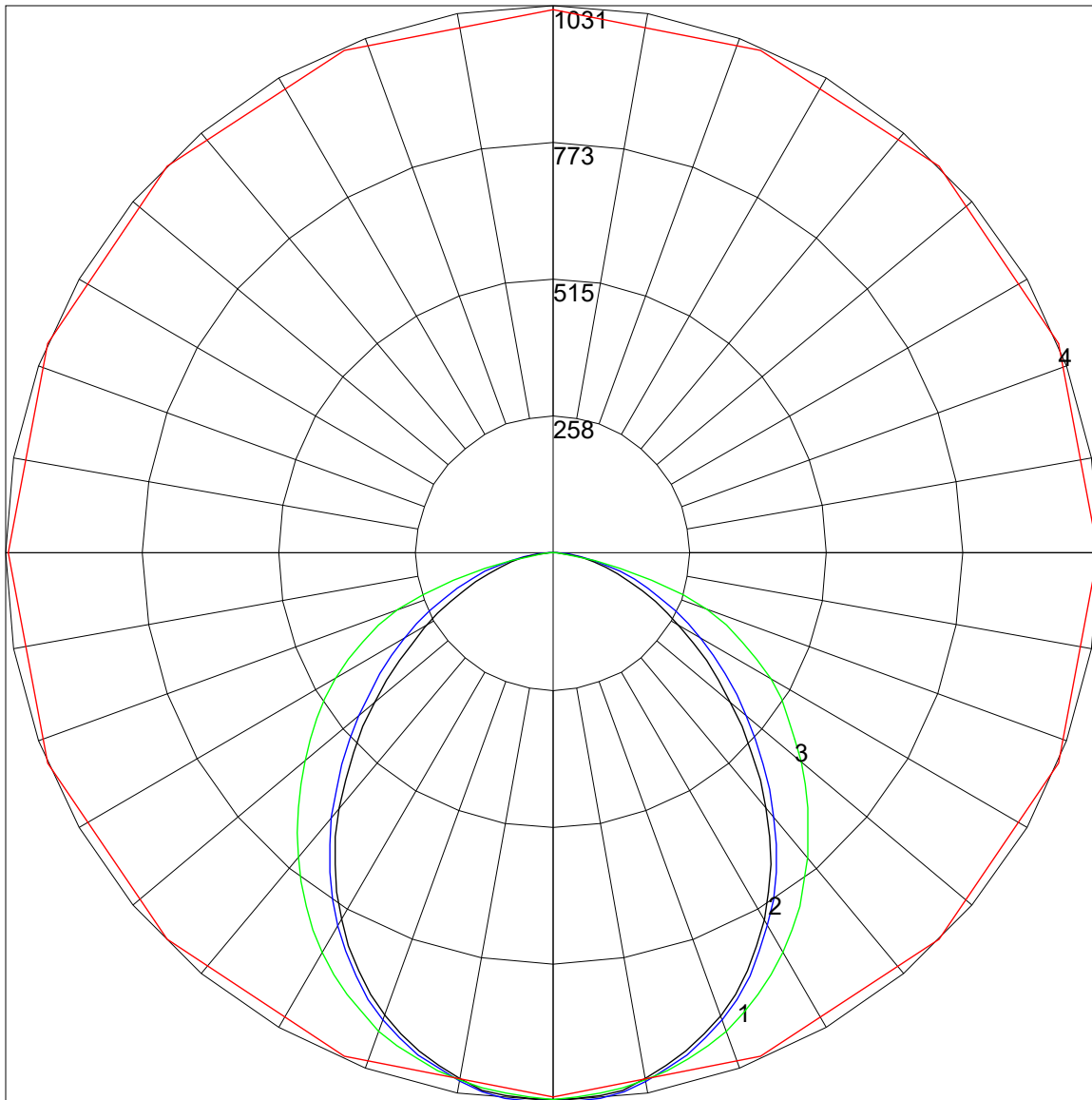
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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  | 109 | 104 | 100 | 96  | 106 | 102 | 98  | 95  | 98  | 95  | 92  | 94  | 91  | 89  | 90  | 88  | 86  | 84  |
| 2  | 99  | 91  | 85  | 79  | 97  | 89  | 83  | 78  | 86  | 81  | 76  | 83  | 78  | 74  | 80  | 76  | 73  | 71  |
| 3  | 91  | 80  | 72  | 66  | 88  | 79  | 71  | 65  | 76  | 69  | 64  | 73  | 68  | 63  | 70  | 66  | 62  | 60  |
| 4  | 83  | 71  | 63  | 56  | 81  | 70  | 62  | 56  | 68  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 53  | 51  |
| 5  | 77  | 64  | 55  | 48  | 74  | 63  | 54  | 48  | 61  | 53  | 48  | 59  | 52  | 47  | 57  | 51  | 47  | 45  |
| 6  | 71  | 58  | 49  | 42  | 69  | 57  | 48  | 42  | 55  | 47  | 42  | 53  | 47  | 42  | 52  | 46  | 41  | 39  |
| 7  | 66  | 52  | 44  | 38  | 64  | 52  | 43  | 37  | 50  | 43  | 37  | 49  | 42  | 37  | 47  | 41  | 37  | 35  |
| 8  | 61  | 48  | 39  | 34  | 60  | 47  | 39  | 34  | 46  | 39  | 33  | 45  | 38  | 33  | 43  | 37  | 33  | 31  |
| 9  | 57  | 44  | 36  | 30  | 56  | 43  | 36  | 30  | 42  | 35  | 30  | 41  | 35  | 30  | 40  | 34  | 30  | 28  |
| 10 | 54  | 41  | 33  | 28  | 52  | 40  | 33  | 28  | 39  | 32  | 27  | 38  | 32  | 27  | 37  | 31  | 27  | 25  |

POLAR GRAPH



Maximum Candela = 1030.802 Located At Horizontal Angle = 22.5, Vertical Angle = 2.5  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (0 - 180)  
# 3 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 4 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)