

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00581 ~ PR2405LEDLX-100L-35KEX-XXMW.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00581\_M-100L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 6/27/2017  
 [UPDATE] 11/22/2017  
 [LUMCAT] PR2405LEDLX-100L-35K-EX-xx-MW  
 [LUMINAIRE] Nom. 24" Disco Series LED Shallow Power Bay  
 [OTHER] Cast UV Stabilized acrylic refractor  
 [OTHER] Matte White outer finish  
 [OTHER] 105.4 Degree Beam Angle  
 [OTHER] 82% of Lumens Delivered within 20-70 Deg. Zone  
 [OTHER] 3.8% Uplight component  
 [LAMP] N/A  
 [LAMPCAT] N/A, Luxtech Gen2  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] CCT tested: 3500K  
 [OTHER] CCT Output Multipliers: 40K x 1.03, 30K x 0.979, 27K x 0.959  
 [OTHER] This report prepared by Spectrum Lighting, scaled from 130L

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 7911               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 98                 |
| Total Luminaire Watts           | 81                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 2.04               |
| Spacing Criterion (90-270)      | 2.04               |
| Spacing Criterion (Diagonal)    | 1.80               |
| Basic Luminous Shape            | Circular w/ Sides  |
| Luminous Length (0-180)         | 1.83 ft (Diameter) |
| Luminous Width (90-270)         | 1.83 ft (Diameter) |
| Luminous Height                 | 0.25 ft            |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00581 ~ PR2405LEDLX-100L-35KEX-XXMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 12124            | 12030             | 11935             |
| 55                  | 7419             | 7413              | 7406              |
| 65                  | 3117             | 3157              | 3196              |
| 75                  | 1813             | 1889              | 1965              |
| 85                  | 1561             | 1699              | 1836              |

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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</b>   | 1653.807   | 1653.807    | 1653.807    | 1653.807    | 1653.807    |
| <b>5</b>   | 1699.291   | 1700.873    | 1702.456    | 1704.038    | 1705.620    |
| <b>10</b>  | 1866.747   | 1869.859    | 1872.971    | 1876.082    | 1879.194    |
| <b>15</b>  | 2106.449   | 2110.163    | 2113.878    | 2117.593    | 2121.308    |
| <b>20</b>  | 2355.526   | 2359.549    | 2363.572    | 2367.594    | 2371.617    |
| <b>25</b>  | 2583.545   | 2588.615    | 2593.685    | 2598.754    | 2603.823    |
| <b>30</b>  | 2800.679   | 2802.142    | 2803.604    | 2805.067    | 2806.530    |
| <b>35</b>  | 2906.178   | 2903.693    | 2901.207    | 2898.721    | 2896.236    |
| <b>40</b>  | 2814.988   | 2807.047    | 2799.107    | 2791.166    | 2783.226    |
| <b>45</b>  | 2461.563   | 2451.973    | 2442.383    | 2432.792    | 2423.202    |
| <b>50</b>  | 1912.328   | 1907.965    | 1903.601    | 1899.238    | 1894.875    |
| <b>55</b>  | 1299.302   | 1298.757    | 1298.212    | 1297.667    | 1297.123    |
| <b>60</b>  | 775.889    | 776.737     | 777.584     | 778.431     | 779.279     |
| <b>65</b>  | 442.404    | 445.217     | 448.030     | 450.843     | 453.656     |
| <b>70</b>  | 276.291    | 279.528     | 282.767     | 286.005     | 289.244     |
| <b>75</b>  | 189.235    | 193.221     | 197.206     | 201.190     | 205.175     |
| <b>80</b>  | 138.800    | 143.053     | 147.306     | 151.558     | 155.811     |
| <b>85</b>  | 99.454     | 103.828     | 108.202     | 112.576     | 116.951     |
| <b>90</b>  | 71.342     | 75.674      | 80.005      | 84.337      | 88.669      |
| <b>95</b>  | 53.504     | 58.217      | 62.929      | 67.642      | 72.355      |
| <b>100</b> | 38.298     | 42.892      | 47.487      | 52.081      | 56.675      |
| <b>105</b> | 30.300     | 34.489      | 38.679      | 42.867      | 47.056      |
| <b>110</b> | 28.941     | 33.218      | 37.496      | 41.774      | 46.051      |
| <b>115</b> | 44.017     | 47.314      | 50.611      | 53.909      | 57.206      |
| <b>120</b> | 75.813     | 78.228      | 80.643      | 83.059      | 85.474      |
| <b>125</b> | 90.574     | 94.123      | 97.671      | 101.219     | 104.767     |
| <b>130</b> | 43.147     | 49.308      | 55.470      | 61.631      | 67.793      |
| <b>135</b> | 15.638     | 19.737      | 23.836      | 27.935      | 32.035      |
| <b>140</b> | 11.704     | 15.761      | 19.818      | 23.874      | 27.931      |
| <b>145</b> | 13.182     | 16.927      | 20.672      | 24.417      | 28.162      |
| <b>150</b> | 12.746     | 16.289      | 19.832      | 23.375      | 26.918      |
| <b>155</b> | 16.327     | 19.169      | 22.012      | 24.854      | 27.697      |
| <b>160</b> | 17.448     | 20.048      | 22.648      | 25.249      | 27.849      |
| <b>165</b> | 19.804     | 21.937      | 24.070      | 26.202      | 28.334      |
| <b>170</b> | 21.070     | 22.638      | 24.206      | 25.774      | 27.342      |
| <b>175</b> | 24.591     | 25.327      | 26.063      | 26.799      | 27.535      |
| <b>180</b> | 27.295     | 27.295      | 27.295      | 27.295      | 27.295      |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 773.53  | N.A.  | 9.80   |
| 0-30    | 1976.49 | N.A.  | 25.00  |
| 0-40    | 3767.61 | N.A.  | 47.60  |
| 0-60    | 6792.28 | N.A.  | 85.90  |
| 0-80    | 7492.91 | N.A.  | 94.70  |
| 0-90    | 7613.87 | N.A.  | 96.20  |
| 10-90   | 7445.84 | N.A.  | 94.10  |
| 20-40   | 2994.08 | N.A.  | 37.80  |
| 20-50   | 4842.76 | N.A.  | 61.20  |
| 40-70   | 3507.66 | N.A.  | 44.30  |
| 60-80   | 700.63  | N.A.  | 8.90   |
| 70-80   | 217.64  | N.A.  | 2.80   |
| 80-90   | 120.96  | N.A.  | 1.50   |
| 90-110  | 112.11  | N.A.  | 1.40   |
| 90-120  | 166.32  | N.A.  | 2.10   |
| 90-130  | 240.84  | N.A.  | 3.00   |
| 90-150  | 277.67  | N.A.  | 3.50   |
| 90-180  | 296.79  | N.A.  | 3.80   |
| 110-180 | 184.69  | N.A.  | 2.30   |
| 0-180   | 7910.67 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 168.03  |
| 10-20   | 605.50  |
| 20-30   | 1202.96 |
| 30-40   | 1791.13 |
| 40-50   | 1848.67 |
| 50-60   | 1176.00 |
| 60-70   | 482.99  |
| 70-80   | 217.64  |
| 80-90   | 120.96  |
| 90-100  | 69.14   |
| 100-110 | 42.97   |
| 110-120 | 54.22   |
| 120-130 | 74.51   |
| 130-140 | 24.11   |
| 140-150 | 12.72   |
| 150-160 | 9.98    |
| 160-170 | 6.71    |
| 170-180 | 2.44    |

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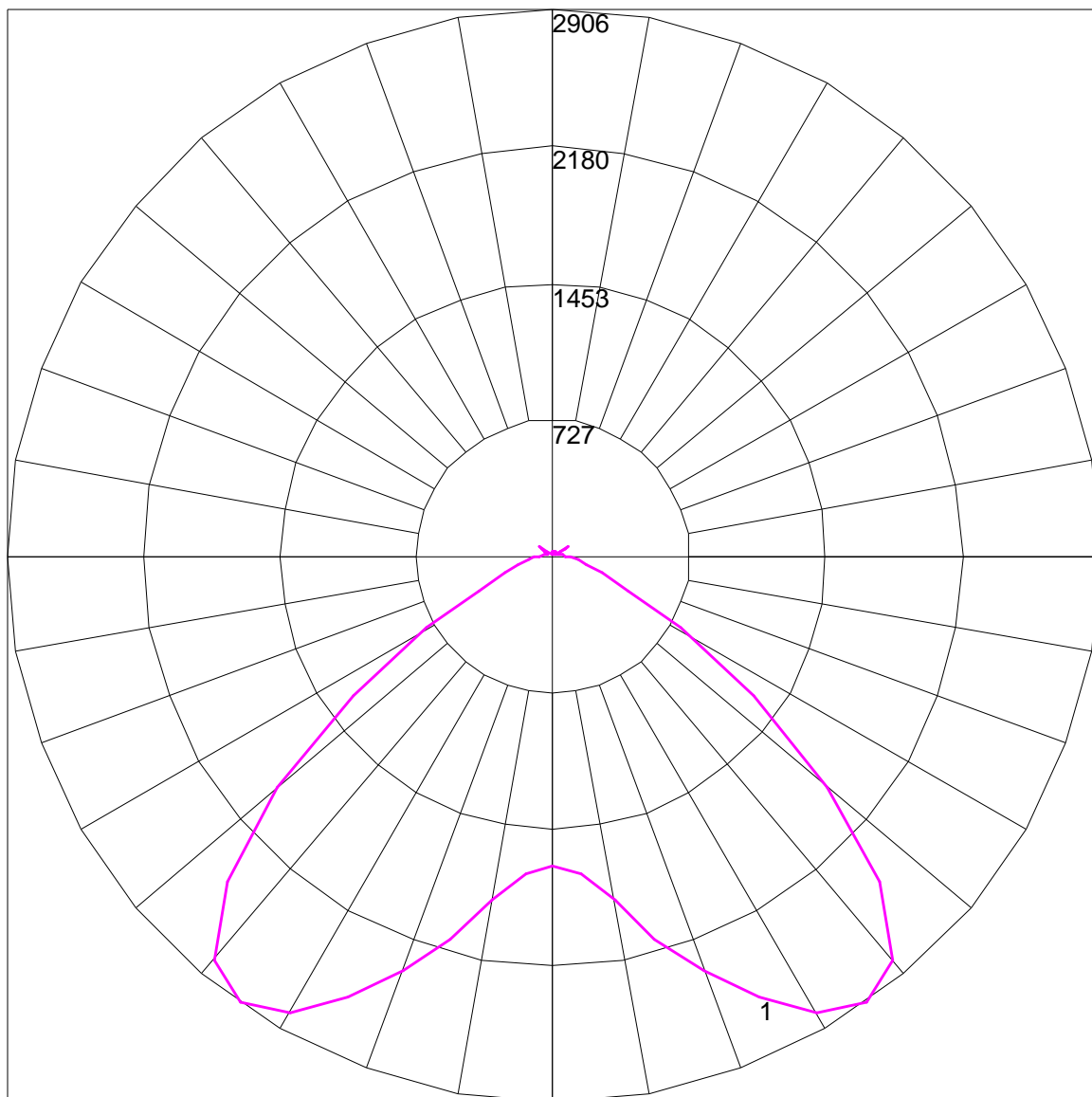
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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  | 118 | 118 | 118 | 118 | 115 | 115 | 115 | 115 | 109 | 109 | 109 | 104 | 104 | 104 | 99 | 99 | 99 | 96 |
| 1  | 109 | 105 | 101 | 98  | 106 | 102 | 99  | 96  | 97  | 94  | 92  | 93  | 91  | 88  | 89 | 87 | 85 | 83 |
| 2  | 100 | 93  | 86  | 81  | 97  | 90  | 85  | 80  | 86  | 82  | 78  | 83  | 79  | 75  | 79 | 76 | 73 | 71 |
| 3  | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 68  | 77  | 71  | 66  | 73  | 68  | 64  | 71 | 66 | 63 | 61 |
| 4  | 84  | 73  | 65  | 58  | 82  | 71  | 64  | 58  | 68  | 62  | 57  | 66  | 60  | 55  | 63 | 58 | 54 | 52 |
| 5  | 77  | 65  | 56  | 50  | 75  | 64  | 56  | 50  | 61  | 54  | 49  | 59  | 53  | 48  | 57 | 51 | 47 | 45 |
| 6  | 71  | 58  | 50  | 44  | 69  | 57  | 49  | 43  | 55  | 48  | 43  | 53  | 47  | 42  | 51 | 46 | 41 | 39 |
| 7  | 66  | 53  | 44  | 38  | 64  | 52  | 44  | 38  | 50  | 43  | 37  | 48  | 42  | 37  | 46 | 41 | 36 | 34 |
| 8  | 61  | 48  | 39  | 34  | 59  | 47  | 39  | 34  | 45  | 38  | 33  | 44  | 37  | 33  | 42 | 37 | 32 | 30 |
| 9  | 57  | 44  | 35  | 30  | 55  | 43  | 35  | 30  | 41  | 34  | 29  | 40  | 34  | 29  | 39 | 33 | 29 | 27 |
| 10 | 53  | 40  | 32  | 27  | 52  | 39  | 32  | 27  | 38  | 31  | 26  | 37  | 31  | 26  | 36 | 30 | 26 | 24 |

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POLAR GRAPH



Maximum Candela = 2906.178 Located At Horizontal Angle = 0, Vertical Angle = 35  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)