

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : PRX16LEDGV-37L35KE1-PR16-CFG.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Mon Jul 25 2016

[UPDATE] Fri Aug 4 2017

[TEST] SP-00392\_36\_M-37L-Gen3

[MANUFAC] Spectrum Lighting

[LUMCAT] PRX16LEDGV-37L-35K-E1-PR16-CFG

[LUMINAIRE] LED Prismatic Tech Pendant with Center Frosted Glass Disc

[OTHER] 16" Diam. clear acrylic refractor

[OTHER] 22" Diam. Sodalime Glass disc, with 16" Diam. Frosted Center Pattern

[LAMP] N/A, Gen3

[LAMPCAT] N/A

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 5000K x 1.06, 4000K X 1.03, 3000K X 0.985, 2700K X 0.971

[OTHER] This report prepared by Spectrum Lighting, scaled from 55L Gen2

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2677               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 103                |
| Total Luminaire Watts           | 26                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 0.96               |
| Spacing Criterion (90-270)      | 0.96               |
| Spacing Criterion (Diagonal)    | 1.00               |
| Basic Luminous Shape            | Circular w/ Sides  |
| Luminous Length (0-180)         | 1.33 ft (Diameter) |
| Luminous Width (90-270)         | 1.33 ft (Diameter) |
| Luminous Height                 | 1.03 ft            |

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**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 2580             | 2619              | 2588              |
| 55                  | 1467             | 1464              | 1447              |
| 65                  | 849              | 857               | 833               |
| 75                  | 449              | 464               | 457               |
| 85                  | 296              | 300               | 307               |

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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>   | 1842.715   | 1842.715    | 1842.715    | 1842.715    | 1842.715    |
| <b>5</b>   | 1840.745   | 1829.222    | 1798.138    | 1804.212    | 1780.128    |
| <b>10</b>  | 1744.911   | 1760.304    | 1739.818    | 1728.203    | 1734.598    |
| <b>15</b>  | 1614.295   | 1612.652    | 1608.107    | 1604.593    | 1608.626    |
| <b>20</b>  | 1447.190   | 1452.660    | 1456.195    | 1452.624    | 1449.715    |
| <b>25</b>  | 1271.250   | 1284.352    | 1279.721    | 1284.857    | 1277.225    |
| <b>30</b>  | 1066.957   | 1064.717    | 1077.854    | 1080.635    | 1069.717    |
| <b>35</b>  | 840.394    | 856.284     | 854.115     | 853.375     | 858.859     |
| <b>40</b>  | 640.874    | 636.229     | 639.331     | 637.645     | 634.110     |
| <b>45</b>  | 468.839    | 471.179     | 475.774     | 473.548     | 470.176     |
| <b>50</b>  | 347.392    | 351.140     | 347.136     | 349.810     | 348.651     |
| <b>55</b>  | 262.178    | 263.238     | 261.780     | 258.465     | 258.728     |
| <b>60</b>  | 198.915    | 197.834     | 195.373     | 196.632     | 195.792     |
| <b>65</b>  | 144.707    | 144.259     | 146.101     | 143.363     | 141.947     |
| <b>70</b>  | 104.561    | 103.544     | 105.664     | 103.309     | 103.018     |
| <b>75</b>  | 70.383     | 72.126      | 72.745      | 73.748      | 71.628      |
| <b>80</b>  | 48.504     | 50.026      | 49.421      | 50.196      | 47.437      |
| <b>85</b>  | 40.971     | 40.779      | 41.611      | 40.345      | 42.564      |
| <b>90</b>  | 13.572     | 14.368      | 13.188      | 13.707      | 13.088      |
| <b>95</b>  | 22.776     | 22.377      | 23.231      | 22.349      | 20.969      |
| <b>100</b> | 19.191     | 18.785      | 19.106      | 18.778      | 18.800      |
| <b>105</b> | 14.767     | 14.788      | 14.759      | 14.575      | 14.724      |
| <b>110</b> | 11.025     | 11.423      | 11.843      | 11.431      | 11.367      |
| <b>115</b> | 9.553      | 9.901       | 9.489       | 9.133       | 8.841       |
| <b>120</b> | 7.291      | 7.326       | 7.853       | 7.462       | 7.732       |
| <b>125</b> | 6.622      | 6.160       | 6.082       | 6.437       | 6.110       |
| <b>130</b> | 5.484      | 5.577       | 5.818       | 5.242       | 5.413       |
| <b>135</b> | 5.313      | 5.150       | 4.751       | 4.823       | 5.022       |
| <b>140</b> | 5.157      | 5.669       | 5.178       | 5.456       | 5.242       |
| <b>145</b> | 5.776      | 6.153       | 6.608       | 6.167       | 7.312       |
| <b>150</b> | 7.568      | 6.793       | 6.466       | 7.262       | 5.399       |
| <b>155</b> | 5.719      | 6.096       | 5.641       | 4.972       | 5.754       |
| <b>160</b> | 4.787      | 4.872       | 5.584       | 4.894       | 5.228       |
| <b>165</b> | 3.002      | 3.535       | 3.891       | 3.599       | 2.795       |
| <b>170</b> | 2.746      | 2.255       | 2.305       | 1.913       | 1.871       |
| <b>175</b> | 0.875      | 0.654       | 0.875       | 0.541       | 1.095       |
| <b>180</b> | 0.213      | 0.213       | 0.213       | 0.213       | 0.213       |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 621.88  | N.A.  | 23.20  |
| 0-30    | 1206.41 | N.A.  | 45.10  |
| 0-40    | 1738.82 | N.A.  | 65.00  |
| 0-60    | 2348.84 | N.A.  | 87.70  |
| 0-80    | 2573.35 | N.A.  | 96.10  |
| 0-90    | 2612.95 | N.A.  | 97.60  |
| 10-90   | 2442.19 | N.A.  | 91.20  |
| 20-40   | 1116.95 | N.A.  | 41.70  |
| 20-50   | 1488.51 | N.A.  | 55.60  |
| 40-70   | 755.81  | N.A.  | 28.20  |
| 60-80   | 224.52  | N.A.  | 8.40   |
| 70-80   | 78.72   | N.A.  | 2.90   |
| 80-90   | 39.60   | N.A.  | 1.50   |
| 90-110  | 36.97   | N.A.  | 1.40   |
| 90-120  | 46.39   | N.A.  | 1.70   |
| 90-130  | 52.14   | N.A.  | 1.90   |
| 90-150  | 60.07   | N.A.  | 2.20   |
| 90-180  | 63.92   | N.A.  | 2.40   |
| 110-180 | 26.94   | N.A.  | 1.00   |
| 0-180   | 2676.87 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 170.76 |
| 10-20   | 451.12 |
| 20-30   | 584.53 |
| 30-40   | 532.42 |
| 40-50   | 371.56 |
| 50-60   | 238.45 |
| 60-70   | 145.79 |
| 70-80   | 78.72  |
| 80-90   | 39.60  |
| 90-100  | 21.13  |
| 100-110 | 15.84  |
| 110-120 | 9.42   |
| 120-130 | 5.75   |
| 130-140 | 4.04   |
| 140-150 | 3.89   |
| 150-160 | 2.69   |
| 160-170 | 1.04   |
| 170-180 | 0.12   |

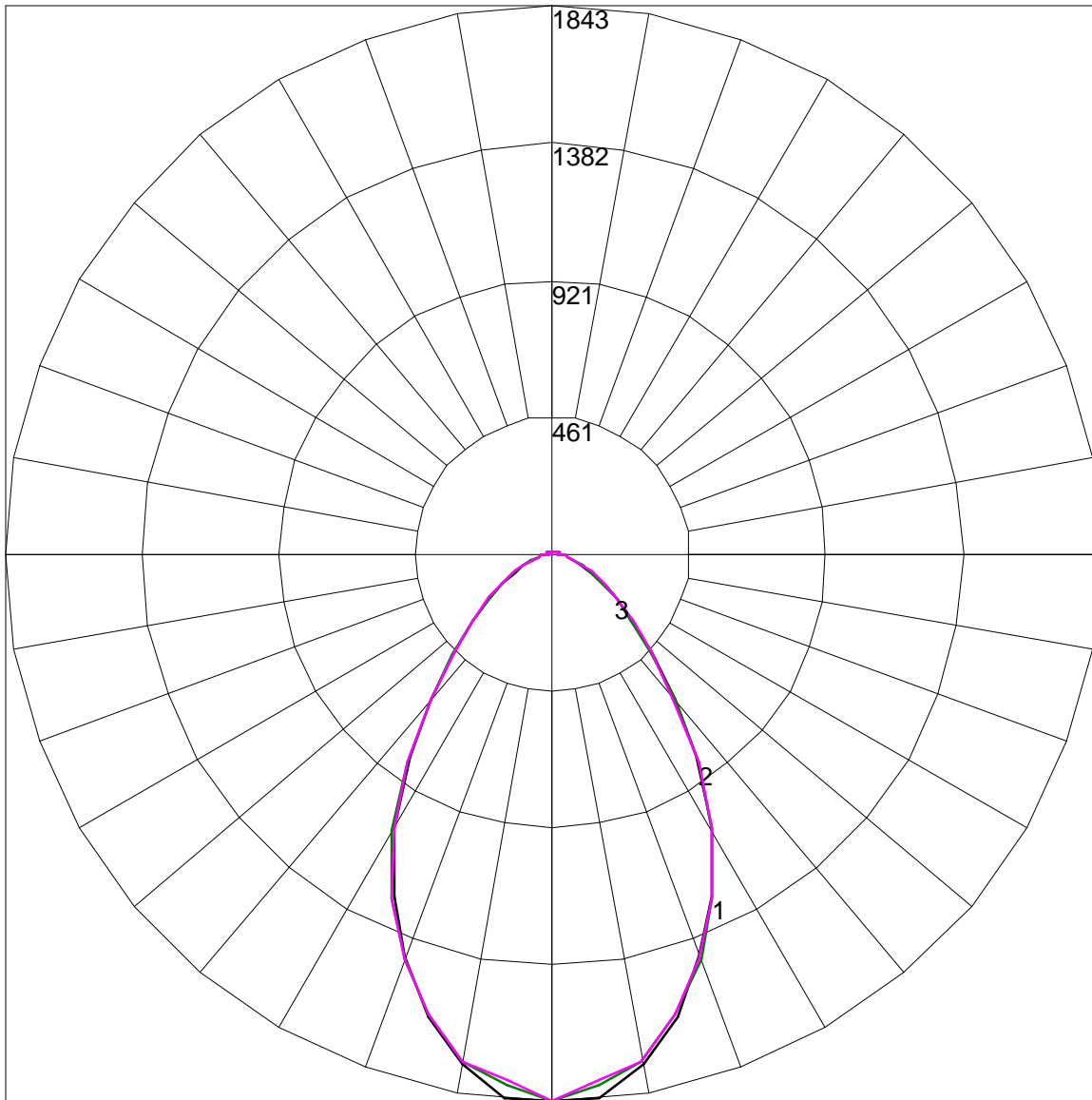
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1  | 110 | 106 | 103 | 100 | 107 | 104 | 101 | 98  | 99  | 97  | 95  | 95  | 93  | 91  | 91  | 90  | 88  | 86 |
| 2  | 103 | 96  | 90  | 86  | 100 | 94  | 89  | 85  | 90  | 86  | 82  | 87  | 83  | 80  | 83  | 81  | 78  | 76 |
| 3  | 95  | 87  | 80  | 75  | 93  | 85  | 79  | 74  | 82  | 77  | 72  | 79  | 75  | 71  | 76  | 73  | 69  | 67 |
| 4  | 89  | 79  | 72  | 66  | 87  | 78  | 71  | 66  | 75  | 69  | 64  | 72  | 67  | 63  | 70  | 66  | 62  | 60 |
| 5  | 83  | 72  | 65  | 59  | 81  | 71  | 64  | 59  | 69  | 63  | 58  | 67  | 61  | 57  | 65  | 60  | 56  | 54 |
| 6  | 78  | 66  | 59  | 53  | 76  | 65  | 58  | 53  | 63  | 57  | 52  | 62  | 56  | 52  | 60  | 55  | 51  | 49 |
| 7  | 73  | 61  | 54  | 48  | 71  | 60  | 53  | 48  | 59  | 52  | 48  | 57  | 52  | 47  | 56  | 51  | 47  | 45 |
| 8  | 68  | 57  | 49  | 44  | 67  | 56  | 49  | 44  | 55  | 48  | 44  | 53  | 48  | 43  | 52  | 47  | 43  | 41 |
| 9  | 65  | 53  | 46  | 41  | 63  | 52  | 45  | 41  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 40  | 38 |
| 10 | 61  | 49  | 42  | 38  | 60  | 49  | 42  | 38  | 48  | 42  | 37  | 47  | 41  | 37  | 46  | 41  | 37  | 35 |

POLAR GRAPH



Maximum Candela = 1842.715 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)