

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16CNMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00569\_M-27L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 7/11/2017

[UPDATE] 7/21/2017

[LUMINAIRE] Nominal 16" Diameter x 16.5" H Prismatic Low Bay Luminaire

[LUMCAT] PRDCH16SLEDGV-27L35K-EX-xx-SR16-CN-MW

[OTHER] Acrylic Refractor / Conical Lens

[OTHER] 98.4 Degree Beam Angle

[LAMP] N/A

[LAMPCAT] N/A, Min. 85 CRI

[OTHER] Total Luminaire Watts is approximate

[OTHER] CCT Output Multipliers: 50K x 1.06, 40K x 1.03, 30K x 0.985, 27K x 0.971

[OTHER] This report prepared by Spectrum Lighting, scaled from 60L

**CHARACTERISTICS**

|                                 |                    |
|---------------------------------|--------------------|
| Lumens Per Lamp                 | N.A. (absolute)    |
| Total Lamp Lumens               | N.A. (absolute)    |
| Luminaire Lumens                | 2340               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 130                |
| Total Luminaire Watts           | 18                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 2.38               |
| Spacing Criterion (90-270)      | 2.28               |
| Spacing Criterion (Diagonal)    | 2.16               |
| Basic Luminous Shape            | Circular w/ Sides  |
| Luminous Length (0-180)         | 1.36 ft (Diameter) |
| Luminous Width (90-270)         | 1.36 ft (Diameter) |
| Luminous Height                 | 0.75 ft            |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16CNMW.IES****LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 3457             | 3398              | 3256              |
| 55                  | 2520             | 2529              | 2518              |
| 65                  | 2426             | 2265              | 1726              |
| 75                  | 674              | 605               | 432               |
| 85                  | 145              | 130               | 124               |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16CNMW.IES****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>   | 261.444    | 261.444     | 261.444     | 261.444     | 261.444     |
| <b>5</b>   | 277.203    | 276.926     | 287.949     | 306.101     | 330.447     |
| <b>10</b>  | 379.069    | 372.049     | 395.836     | 450.833     | 466.147     |
| <b>15</b>  | 541.944    | 530.614     | 547.196     | 582.543     | 629.377     |
| <b>20</b>  | 704.269    | 702.210     | 728.509     | 756.976     | 797.055     |
| <b>25</b>  | 851.807    | 847.622     | 878.573     | 893.672     | 892.682     |
| <b>30</b>  | 876.246    | 880.627     | 859.060     | 864.225     | 820.670     |
| <b>35</b>  | 746.447    | 756.508     | 725.652     | 686.478     | 675.592     |
| <b>40</b>  | 622.806    | 624.205     | 599.828     | 590.617     | 584.513     |
| <b>45</b>  | 562.108    | 560.473     | 552.552     | 550.617     | 529.330     |
| <b>50</b>  | 488.145    | 489.821     | 474.588     | 447.312     | 425.472     |
| <b>55</b>  | 391.125    | 397.108     | 392.438     | 389.987     | 390.684     |
| <b>60</b>  | 389.633    | 388.582     | 395.290     | 400.055     | 386.588     |
| <b>65</b>  | 347.034    | 342.252     | 324.047     | 295.415     | 246.976     |
| <b>70</b>  | 171.791    | 176.835     | 150.144     | 135.153     | 117.478     |
| <b>75</b>  | 85.280     | 88.438      | 76.643      | 65.951      | 54.631      |
| <b>80</b>  | 35.135     | 36.104      | 27.272      | 22.562      | 20.032      |
| <b>85</b>  | 15.438     | 15.396      | 13.849      | 13.826      | 13.152      |
| <b>90</b>  | 13.365     | 11.181      | 11.215      | 12.913      | 12.343      |
| <b>95</b>  | 12.873     | 13.983      | 13.324      | 13.418      | 13.525      |
| <b>100</b> | 14.340     | 15.503      | 14.608      | 14.802      | 16.253      |
| <b>105</b> | 16.682     | 17.339      | 18.606      | 20.078      | 22.611      |
| <b>110</b> | 23.084     | 23.815      | 24.426      | 25.560      | 25.931      |
| <b>115</b> | 27.161     | 27.199      | 26.286      | 27.240      | 27.762      |
| <b>120</b> | 27.177     | 27.283      | 27.076      | 26.836      | 26.839      |
| <b>125</b> | 26.153     | 26.436      | 27.407      | 26.616      | 25.986      |
| <b>130</b> | 21.570     | 23.411      | 25.033      | 25.750      | 24.562      |
| <b>135</b> | 16.197     | 18.854      | 21.753      | 23.191      | 23.521      |
| <b>140</b> | 12.207     | 13.656      | 17.473      | 17.747      | 19.403      |
| <b>145</b> | 7.422      | 9.563       | 13.394      | 13.710      | 15.527      |
| <b>150</b> | 4.228      | 6.493       | 11.320      | 13.404      | 17.034      |
| <b>155</b> | 3.370      | 4.904       | 11.698      | 17.157      | 21.007      |
| <b>160</b> | 3.393      | 3.600       | 9.390       | 16.369      | 17.696      |
| <b>165</b> | 3.666      | 3.001       | 4.953       | 6.534       | 7.337       |
| <b>170</b> | 3.974      | 3.913       | 4.080       | 4.405       | 4.526       |
| <b>175</b> | 4.838      | 4.412       | 4.646       | 4.755       | 4.942       |
| <b>180</b> | 4.605      | 4.605       | 4.605       | 4.605       | 4.605       |

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00569 ~ PRDCH16SLEDGV-27L35K-EXXX-SR16CNMW.IES****ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 196.29  | N.A.  | 8.40   |
| 0-30    | 584.60  | N.A.  | 25.00  |
| 0-40    | 1038.69 | N.A.  | 44.40  |
| 0-60    | 1827.44 | N.A.  | 78.10  |
| 0-80    | 2204.61 | N.A.  | 94.20  |
| 0-90    | 2223.44 | N.A.  | 95.00  |
| 10-90   | 2191.62 | N.A.  | 93.70  |
| 20-40   | 842.41  | N.A.  | 36.00  |
| 20-50   | 1262.62 | N.A.  | 54.00  |
| 40-70   | 1078.87 | N.A.  | 46.10  |
| 60-80   | 377.17  | N.A.  | 16.10  |
| 70-80   | 87.05   | N.A.  | 3.70   |
| 80-90   | 18.83   | N.A.  | 0.80   |
| 90-110  | 35.20   | N.A.  | 1.50   |
| 90-120  | 61.42   | N.A.  | 2.60   |
| 90-130  | 84.91   | N.A.  | 3.60   |
| 90-150  | 108.93  | N.A.  | 4.70   |
| 90-180  | 116.17  | N.A.  | 5.00   |
| 110-180 | 80.97   | N.A.  | 3.50   |
| 0-180   | 2339.61 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens |
|---------|--------|
| 0-10    | 31.82  |
| 10-20   | 164.46 |
| 20-30   | 388.32 |
| 30-40   | 454.09 |
| 40-50   | 420.21 |
| 50-60   | 368.53 |
| 60-70   | 290.13 |
| 70-80   | 87.05  |
| 80-90   | 18.83  |
| 90-100  | 14.74  |
| 100-110 | 20.46  |
| 110-120 | 26.22  |
| 120-130 | 23.49  |
| 130-140 | 16.01  |
| 140-150 | 8.02   |
| 150-160 | 5.03   |
| 160-170 | 1.78   |
| 170-180 | 0.43   |

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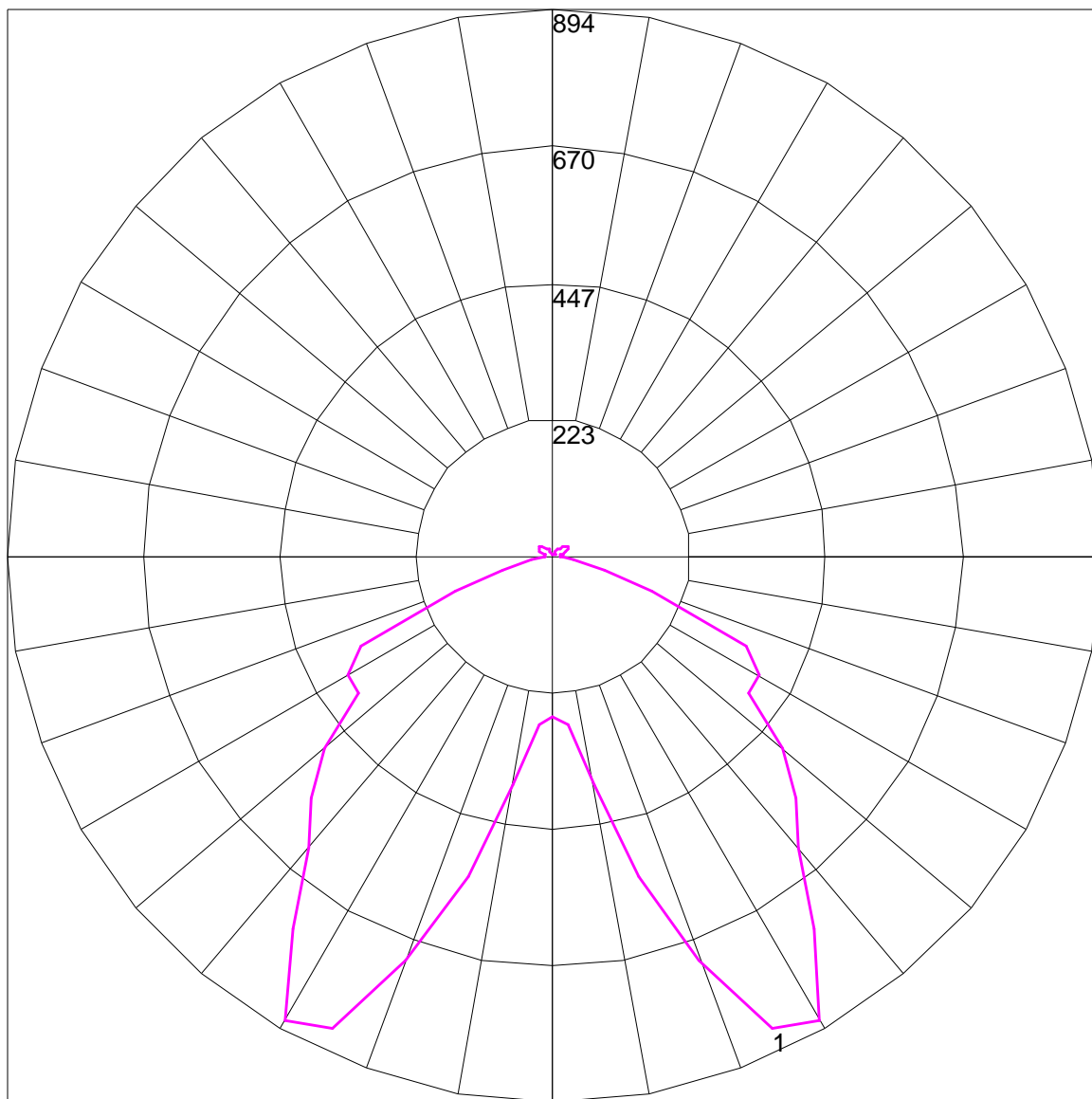
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 | 108 | 108 | 108 | 103 | 103 | 103 | 97 | 97 | 97 | 95 |
| 1  | 108 | 104 | 100 | 96  | 105 | 101 | 97  | 94  | 96  | 93  | 90  | 91  | 89  | 87  | 87 | 85 | 83 | 81 |
| 2  | 99  | 91  | 84  | 79  | 96  | 88  | 82  | 77  | 84  | 79  | 75  | 80  | 76  | 72  | 76 | 73 | 70 | 68 |
| 3  | 90  | 80  | 72  | 65  | 87  | 78  | 70  | 64  | 74  | 68  | 63  | 71  | 65  | 61  | 67 | 63 | 59 | 57 |
| 4  | 82  | 70  | 62  | 55  | 79  | 69  | 61  | 54  | 66  | 59  | 53  | 63  | 57  | 52  | 60 | 55 | 51 | 48 |
| 5  | 75  | 63  | 54  | 47  | 73  | 61  | 53  | 47  | 58  | 51  | 46  | 56  | 50  | 45  | 54 | 48 | 44 | 42 |
| 6  | 69  | 56  | 47  | 41  | 67  | 55  | 46  | 40  | 52  | 45  | 40  | 50  | 44  | 39  | 48 | 43 | 38 | 36 |
| 7  | 64  | 50  | 42  | 36  | 62  | 49  | 41  | 35  | 47  | 40  | 35  | 46  | 39  | 34  | 44 | 38 | 33 | 31 |
| 8  | 59  | 46  | 37  | 31  | 57  | 45  | 37  | 31  | 43  | 36  | 31  | 41  | 35  | 30  | 40 | 34 | 30 | 28 |
| 9  | 55  | 42  | 33  | 28  | 53  | 41  | 33  | 28  | 39  | 32  | 27  | 38  | 31  | 27  | 37 | 31 | 26 | 25 |
| 10 | 51  | 38  | 30  | 25  | 50  | 37  | 30  | 25  | 36  | 29  | 24  | 35  | 29  | 24  | 34 | 28 | 24 | 22 |

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POLAR GRAPH



Maximum Candela = 893.672 Located At Horizontal Angle = 67.5, Vertical Angle = 25  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)