



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : EXN-EGLED-05L-T5NU-40-70CRI.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] LED-11038

[TESTLAB] LSI INDUSTRIES, INC

[ISSUE DATE] 06/13/19

[TEST DATE] 05/01/19

[MANUFAC] LSI INDUSTRIES, INC

[LUMCAT] EXN-EGLED-05L-T5NU-40-70CRI

[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.

[OTHER] SCALED FROM ORIGINAL TEST DATA

[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                | 5527               |
| Total Luminaire Efficiency      | N.A.               |
| Luminaire Efficacy Rating (LER) | 142                |
| Total Luminaire Watts           | 39                 |
| Ballast Factor                  | 1.00               |
| CIE Type                        | Direct             |
| Spacing Criterion (0-180)       | 2.18               |
| Spacing Criterion (90-270)      | 2.18               |
| Spacing Criterion (Diagonal)    | 2.14               |
| Basic Luminous Shape            | Circular w/ Sides  |
| Luminous Length (0-180)         | 1.08 ft (Diameter) |
| Luminous Width (90-270)         | 1.08 ft (Diameter) |
| Luminous Height                 | 0.33 ft            |

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

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 14842            | 14748             | 14712             |
| 55                  | 15443            | 15299             | 15208             |
| 65                  | 14342            | 14177             | 14177             |
| 75                  | 10839            | 10784             | 10655             |
| 85                  | 3446             | 3568              | 3519              |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-05L-T5NU-40-70CRI.IES**

**CANDELA TABULATION**

|              | <u>0</u> | <u>5</u> | <u>15</u> | <u>25</u> | <u>35</u> | <u>45</u> | <u>55</u> | <u>65</u> | <u>75</u> | <u>85</u> |
|--------------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>0.0</b>   | 775      | 775      | 775       | 775       | 775       | 775       | 775       | 775       | 775       | 775       |
| <b>2.5</b>   | 777      | 777      | 777       | 777       | 777       | 777       | 777       | 777       | 777       | 778       |
| <b>5.0</b>   | 783      | 785      | 785       | 785       | 785       | 785       | 785       | 785       | 785       | 786       |
| <b>7.5</b>   | 799      | 798      | 798       | 799       | 799       | 799       | 798       | 799       | 799       | 799       |
| <b>10.0</b>  | 820      | 819      | 819       | 819       | 819       | 819       | 819       | 819       | 819       | 819       |
| <b>12.5</b>  | 844      | 844      | 843       | 844       | 843       | 844       | 844       | 844       | 844       | 844       |
| <b>15.0</b>  | 878      | 877      | 877       | 877       | 875       | 877       | 877       | 878       | 877       | 877       |
| <b>17.5</b>  | 912      | 912      | 911       | 911       | 911       | 911       | 912       | 912       | 911       | 911       |
| <b>20.0</b>  | 951      | 953      | 953       | 951       | 951       | 953       | 951       | 951       | 950       | 950       |
| <b>22.5</b>  | 995      | 995      | 995       | 993       | 995       | 993       | 993       | 993       | 993       | 993       |
| <b>25.0</b>  | 1039     | 1039     | 1039      | 1035      | 1037      | 1037      | 1037      | 1037      | 1037      | 1035      |
| <b>27.5</b>  | 1081     | 1082     | 1082      | 1081      | 1081      | 1079      | 1077      | 1077      | 1079      | 1079      |
| <b>30.0</b>  | 1121     | 1121     | 1121      | 1121      | 1120      | 1118      | 1118      | 1118      | 1118      | 1116      |
| <b>32.5</b>  | 1158     | 1158     | 1158      | 1158      | 1157      | 1155      | 1153      | 1153      | 1152      | 1153      |
| <b>35.0</b>  | 1191     | 1189     | 1189      | 1189      | 1187      | 1186      | 1184      | 1184      | 1184      | 1184      |
| <b>37.5</b>  | 1217     | 1215     | 1215      | 1213      | 1212      | 1210      | 1208      | 1208      | 1207      | 1207      |
| <b>40.0</b>  | 1234     | 1234     | 1234      | 1233      | 1231      | 1230      | 1226      | 1226      | 1226      | 1226      |
| <b>42.5</b>  | 1247     | 1247     | 1246      | 1244      | 1242      | 1241      | 1239      | 1238      | 1238      | 1236      |
| <b>45.0</b>  | 1252     | 1252     | 1251      | 1249      | 1246      | 1244      | 1242      | 1241      | 1242      | 1241      |
| <b>47.5</b>  | 1249     | 1249     | 1247      | 1244      | 1241      | 1239      | 1239      | 1238      | 1238      | 1236      |
| <b>50.0</b>  | 1236     | 1236     | 1234      | 1231      | 1228      | 1226      | 1225      | 1223      | 1223      | 1223      |
| <b>52.5</b>  | 1215     | 1213     | 1212      | 1208      | 1205      | 1204      | 1204      | 1202      | 1200      | 1200      |
| <b>55.0</b>  | 1184     | 1183     | 1179      | 1176      | 1173      | 1173      | 1171      | 1171      | 1170      | 1168      |
| <b>57.5</b>  | 1144     | 1142     | 1137      | 1131      | 1129      | 1129      | 1131      | 1129      | 1129      | 1124      |
| <b>60.0</b>  | 1094     | 1090     | 1086      | 1081      | 1077      | 1077      | 1079      | 1079      | 1077      | 1074      |
| <b>62.5</b>  | 1026     | 1026     | 1024      | 1019      | 1016      | 1016      | 1014      | 1014      | 1014      | 1013      |
| <b>65.0</b>  | 956      | 956      | 953       | 950       | 946       | 945       | 943       | 943       | 943       | 943       |
| <b>67.5</b>  | 878      | 877      | 874       | 870       | 867       | 866       | 864       | 862       | 866       | 866       |
| <b>70.0</b>  | 789      | 788      | 786       | 781       | 780       | 777       | 778       | 777       | 777       | 778       |
| <b>72.5</b>  | 694      | 696      | 694       | 689       | 683       | 686       | 686       | 686       | 683       | 681       |
| <b>75.0</b>  | 592      | 595      | 594       | 584       | 581       | 589       | 587       | 587       | 586       | 579       |
| <b>77.5</b>  | 480      | 485      | 484       | 474       | 472       | 479       | 482       | 480       | 480       | 471       |
| <b>80.0</b>  | 364      | 370      | 369       | 364       | 362       | 367       | 369       | 370       | 367       | 361       |
| <b>82.5</b>  | 248      | 256      | 254       | 252       | 251       | 254       | 251       | 256       | 252       | 249       |
| <b>85.0</b>  | 141      | 147      | 146       | 144       | 144       | 146       | 142       | 142       | 144       | 144       |
| <b>87.5</b>  | 50       | 52       | 53        | 53        | 53        | 53        | 52        | 52        | 53        | 55        |
| <b>90.0</b>  | 6        | 6        | 6         | 8         | 8         | 8         | 8         | 10        | 10        | 10        |
| <b>92.5</b>  | 6        | 6        | 6         | 6         | 6         | 6         | 6         | 6         | 6         | 6         |
| <b>95.0</b>  | 8        | 8        | 8         | 8         | 8         | 8         | 8         | 8         | 8         | 10        |
| <b>97.5</b>  | 10       | 11       | 10        | 11        | 10        | 10        | 10        | 10        | 11        | 11        |
| <b>100.0</b> | 13       | 13       | 13        | 13        | 13        | 13        | 13        | 13        | 13        | 13        |
| <b>102.5</b> | 15       | 15       | 15        | 15        | 15        | 15        | 15        | 15        | 15        | 15        |
| <b>105.0</b> | 18       | 18       | 18        | 18        | 18        | 18        | 18        | 18        | 18        | 18        |
| <b>107.5</b> | 19       | 21       | 21        | 19        | 19        | 19        | 19        | 19        | 21        | 21        |
| <b>110.0</b> | 23       | 23       | 23        | 23        | 23        | 23        | 23        | 23        | 23        | 23        |
| <b>112.5</b> | 26       | 26       | 26        | 26        | 26        | 26        | 26        | 26        | 26        | 26        |
| <b>115.0</b> | 29       | 29       | 29        | 29        | 31        | 31        | 31        | 29        | 29        | 29        |
| <b>117.5</b> | 32       | 32       | 32        | 34        | 34        | 34        | 34        | 34        | 32        | 34        |
| <b>120.0</b> | 37       | 37       | 36        | 37        | 37        | 37        | 37        | 37        | 37        | 37        |
| <b>122.5</b> | 42       | 40       | 40        | 40        | 40        | 42        | 40        | 40        | 40        | 40        |
| <b>125.0</b> | 47       | 45       | 44        | 45        | 45        | 45        | 45        | 45        | 45        | 45        |
| <b>127.5</b> | 50       | 50       | 49        | 50        | 49        | 50        | 50        | 50        | 49        | 50        |
| <b>130.0</b> | 55       | 55       | 53        | 53        | 53        | 55        | 53        | 55        | 53        | 53        |
| <b>132.5</b> | 60       | 58       | 57        | 58        | 57        | 58        | 57        | 58        | 57        | 58        |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-05L-T5NU-40-70CRI.IES**

**CANDELA TABULATION - (Cont.)**

|       |    |    |    |    |    |    |    |    |    |    |
|-------|----|----|----|----|----|----|----|----|----|----|
| 135.0 | 65 | 63 | 63 | 63 | 61 | 65 | 61 | 63 | 61 | 61 |
| 137.5 | 70 | 68 | 66 | 68 | 65 | 68 | 66 | 66 | 65 | 65 |
| 140.0 | 73 | 71 | 70 | 71 | 66 | 73 | 71 | 73 | 70 | 68 |
| 142.5 | 76 | 76 | 74 | 76 | 71 | 76 | 74 | 74 | 70 | 70 |
| 145.0 | 78 | 78 | 78 | 79 | 74 | 79 | 76 | 74 | 73 | 71 |
| 147.5 | 84 | 81 | 81 | 83 | 76 | 79 | 76 | 74 | 73 | 73 |
| 150.0 | 87 | 86 | 84 | 81 | 78 | 78 | 76 | 74 | 73 | 73 |
| 152.5 | 89 | 87 | 84 | 79 | 76 | 76 | 76 | 74 | 74 | 71 |
| 155.0 | 81 | 81 | 78 | 73 | 73 | 76 | 73 | 74 | 73 | 71 |
| 157.5 | 73 | 73 | 71 | 71 | 71 | 74 | 74 | 74 | 76 | 71 |
| 160.0 | 68 | 68 | 66 | 66 | 71 | 71 | 73 | 73 | 76 | 73 |
| 162.5 | 66 | 66 | 66 | 65 | 65 | 68 | 70 | 70 | 73 | 74 |
| 165.0 | 63 | 63 | 60 | 60 | 61 | 63 | 66 | 66 | 71 | 76 |
| 167.5 | 60 | 60 | 58 | 60 | 57 | 60 | 58 | 61 | 71 | 76 |
| 170.0 | 53 | 55 | 55 | 55 | 55 | 50 | 52 | 53 | 61 | 63 |
| 172.5 | 49 | 49 | 50 | 49 | 49 | 45 | 49 | 52 | 55 | 57 |
| 175.0 | 42 | 40 | 42 | 44 | 44 | 40 | 45 | 42 | 45 | 44 |
| 177.5 | 29 | 28 | 28 | 29 | 24 | 28 | 29 | 31 | 29 | 28 |
| 180.0 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |

**Vert. Horizontal Angles**

|      |           |
|------|-----------|
|      | <u>90</u> |
| 0.0  | 775       |
| 2.5  | 777       |
| 5.0  | 786       |
| 7.5  | 799       |
| 10.0 | 819       |
| 12.5 | 844       |
| 15.0 | 875       |
| 17.5 | 911       |
| 20.0 | 948       |
| 22.5 | 993       |
| 25.0 | 1035      |
| 27.5 | 1079      |
| 30.0 | 1118      |
| 32.5 | 1153      |
| 35.0 | 1184      |
| 37.5 | 1208      |
| 40.0 | 1226      |
| 42.5 | 1236      |
| 45.0 | 1241      |
| 47.5 | 1236      |
| 50.0 | 1223      |
| 52.5 | 1200      |
| 55.0 | 1166      |
| 57.5 | 1126      |
| 60.0 | 1074      |
| 62.5 | 1014      |
| 65.0 | 945       |
| 67.5 | 866       |
| 70.0 | 780       |
| 72.5 | 684       |
| 75.0 | 582       |
| 77.5 | 477       |
| 80.0 | 366       |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-05L-T5NU-40-70CRI.IES**

**CANDELA TABULATION - (Cont.)**

|              |     |
|--------------|-----|
| <b>82.5</b>  | 252 |
| <b>85.0</b>  | 144 |
| <b>87.5</b>  | 55  |
| <b>90.0</b>  | 11  |
| <b>92.5</b>  | 6   |
| <b>95.0</b>  | 8   |
| <b>97.5</b>  | 10  |
| <b>100.0</b> | 13  |
| <b>102.5</b> | 15  |
| <b>105.0</b> | 18  |
| <b>107.5</b> | 21  |
| <b>110.0</b> | 23  |
| <b>112.5</b> | 26  |
| <b>115.0</b> | 29  |
| <b>117.5</b> | 32  |
| <b>120.0</b> | 37  |
| <b>122.5</b> | 42  |
| <b>125.0</b> | 45  |
| <b>127.5</b> | 50  |
| <b>130.0</b> | 55  |
| <b>132.5</b> | 58  |
| <b>135.0</b> | 63  |
| <b>137.5</b> | 65  |
| <b>140.0</b> | 71  |
| <b>142.5</b> | 71  |
| <b>145.0</b> | 71  |
| <b>147.5</b> | 71  |
| <b>150.0</b> | 71  |
| <b>152.5</b> | 71  |
| <b>155.0</b> | 70  |
| <b>157.5</b> | 71  |
| <b>160.0</b> | 73  |
| <b>162.5</b> | 71  |
| <b>165.0</b> | 78  |
| <b>167.5</b> | 73  |
| <b>170.0</b> | 68  |
| <b>172.5</b> | 53  |
| <b>175.0</b> | 44  |
| <b>177.5</b> | 32  |
| <b>180.0</b> | 23  |

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-05L-T5NU-40-70CRI.IES**

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  | %Lamp | %Fixt  |
|---------|---------|-------|--------|
| 0-20    | 327.18  | N.A.  | 5.90   |
| 0-30    | 809.18  | N.A.  | 14.60  |
| 0-40    | 1552.82 | N.A.  | 28.10  |
| 0-60    | 3557.33 | N.A.  | 64.40  |
| 0-80    | 5102.72 | N.A.  | 92.30  |
| 0-90    | 5275.98 | N.A.  | 95.50  |
| 10-90   | 5199.97 | N.A.  | 94.10  |
| 20-40   | 1225.64 | N.A.  | 22.20  |
| 20-50   | 2185.24 | N.A.  | 39.50  |
| 40-70   | 2936.32 | N.A.  | 53.10  |
| 60-80   | 1545.39 | N.A.  | 28.00  |
| 70-80   | 613.58  | N.A.  | 11.10  |
| 80-90   | 173.26  | N.A.  | 3.10   |
| 90-110  | 28.28   | N.A.  | 0.50   |
| 90-120  | 57.70   | N.A.  | 1.00   |
| 90-130  | 97.97   | N.A.  | 1.80   |
| 90-150  | 193.07  | N.A.  | 3.50   |
| 90-180  | 250.78  | N.A.  | 4.50   |
| 110-180 | 222.50  | N.A.  | 4.00   |
| 0-180   | 5526.76 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 76.01   |
| 10-20   | 251.17  |
| 20-30   | 482.00  |
| 30-40   | 743.64  |
| 40-50   | 959.60  |
| 50-60   | 1044.91 |
| 60-70   | 931.80  |
| 70-80   | 613.58  |
| 80-90   | 173.26  |
| 90-100  | 9.59    |
| 100-110 | 18.70   |
| 110-120 | 29.41   |
| 120-130 | 40.28   |
| 130-140 | 47.94   |
| 140-150 | 47.16   |
| 150-160 | 34.75   |
| 160-170 | 18.56   |
| 170-180 | 4.40    |

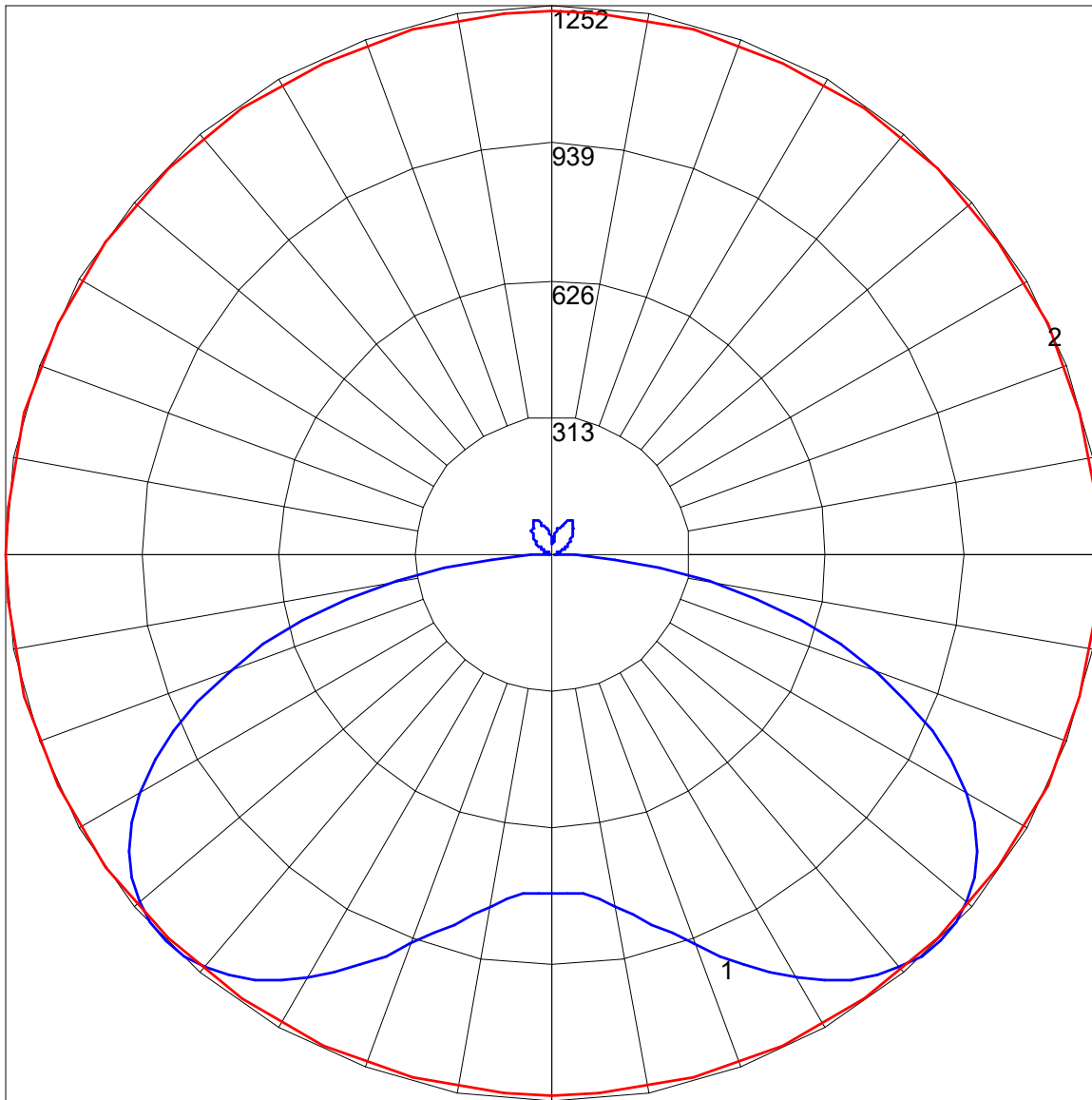
**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : EXN-EGLED-05L-T5NU-40-70CRI.IES**

**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 | 103 | 103 | 103 | 98 | 98 | 98 | 95 |
| 1  | 106 | 100 | 95  | 90  | 102 | 97  | 92  | 88  | 92  | 88  | 85  | 87  | 84  | 81  | 83 | 80 | 78 | 75 |
| 2  | 94  | 84  | 77  | 70  | 91  | 82  | 75  | 69  | 78  | 72  | 66  | 74  | 69  | 64  | 70 | 66 | 62 | 59 |
| 3  | 84  | 72  | 63  | 55  | 81  | 70  | 62  | 55  | 67  | 59  | 53  | 63  | 57  | 51  | 60 | 54 | 50 | 47 |
| 4  | 76  | 63  | 53  | 45  | 73  | 61  | 52  | 44  | 58  | 50  | 43  | 55  | 48  | 42  | 52 | 46 | 41 | 38 |
| 5  | 69  | 55  | 45  | 37  | 67  | 53  | 44  | 37  | 51  | 42  | 36  | 48  | 41  | 35  | 46 | 39 | 34 | 32 |
| 6  | 63  | 49  | 39  | 32  | 61  | 47  | 38  | 31  | 45  | 37  | 30  | 43  | 35  | 30  | 41 | 34 | 29 | 27 |
| 7  | 58  | 43  | 34  | 27  | 56  | 42  | 33  | 27  | 40  | 32  | 26  | 38  | 31  | 26  | 37 | 30 | 25 | 23 |
| 8  | 54  | 39  | 30  | 23  | 52  | 38  | 29  | 23  | 36  | 28  | 23  | 35  | 28  | 22  | 33 | 27 | 22 | 20 |
| 9  | 50  | 35  | 27  | 21  | 48  | 35  | 26  | 20  | 33  | 25  | 20  | 32  | 25  | 20  | 30 | 24 | 19 | 17 |
| 10 | 47  | 32  | 24  | 18  | 45  | 32  | 24  | 18  | 30  | 23  | 18  | 29  | 22  | 17  | 28 | 22 | 17 | 15 |

POLAR GRAPH



Maximum Candela = 1252 Located At Horizontal Angle = 0, Vertical Angle = 45  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)