



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : FAL-716-12L-35-CGG6-GWT.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] LED-12003  
[TESTLAB] LSI INDUSTRIES, INC.  
[ISSUE DATE] 7/31/2020  
[TEST DATE] 07/14/20  
[MANUFAC] LSI INDUSTRIES, INC.  
[LUMCAT] FAL-716-12L-35-CGG6-GWT  
[OTHER] TEST PROCEDURE: IESNA LM-79-08  
[ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED  
[OTHER] SCALED FROM ORIGINAL TEST DATA  
[SEARCH\_SOURCETYPE] LED  
[SEARCH\_APPLICATION] Indoor  
[SEARCH\_APPLICATION] Outdoor

**CHARACTERISTICS**

|   |                            |
|---|----------------------------|
| IES Classification                              | Type VS                    |
| Longitudinal Classification                     | Very Short                 |
| Lumens Per Lamp                                 | N.A. (absolute)            |
| Total Lamp Lumens                               | N.A. (absolute)            |
| Luminaire Lumens                                | 1108                       |
| Downward Total Efficiency                       | N.A. (absolute)            |
| Total Luminaire Efficiency                      | N.A. (absolute)            |
| Luminaire Efficacy Rating (LER)                 | 119                        |
| Total Luminaire Watts                           | 9.3                        |
| Ballast Factor                                  | 1.00                       |
| Upward Waste Light Ratio                        | 0.04                       |
| Maximum Candela                                 | 1359                       |
| Maximum Candela Angle                           | 90H 0V                     |
| Maximum Candela (<90 Degrees Vertical)          | 1359                       |
| Maximum Candela Angle (<90 Degrees Vertical)    | 90H 0V                     |
| Maximum Candela At 90 Degrees Vertical          | 16 (1.4% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | 48 (4.3% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)            |



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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 163.7    | N.A.   | 14.8        |
| FM - Front-Medium (30-60)     | 310.7    | N.A.   | 28.1        |
| FH - Front-High (60-80)       | 37.5     | N.A.   | 3.4         |
| FVH - Front-Very High (80-90) | 17.4     | N.A.   | 1.6         |
| BL - Back-Low (0-30)          | 163.7    | N.A.   | 14.8        |
| BM - Back-Medium (30-60)      | 310.7    | N.A.   | 28.1        |
| BH - Back-High (60-80)        | 37.5     | N.A.   | 3.4         |
| BVH - Back-Very High (80-90)  | 17.4     | N.A.   | 1.6         |
| UL - Uplight-Low (90-100)     | 13.8     | N.A.   | 1.2         |
| UH - Uplight-High (100-180)   | 35.2     | N.A.   | 3.2         |
| Total                         | 1107.6   | N.A.   | 100.0       |
| BUG Rating                    | B1-U2-G1 |        |             |

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**CANDELA TABULATION**

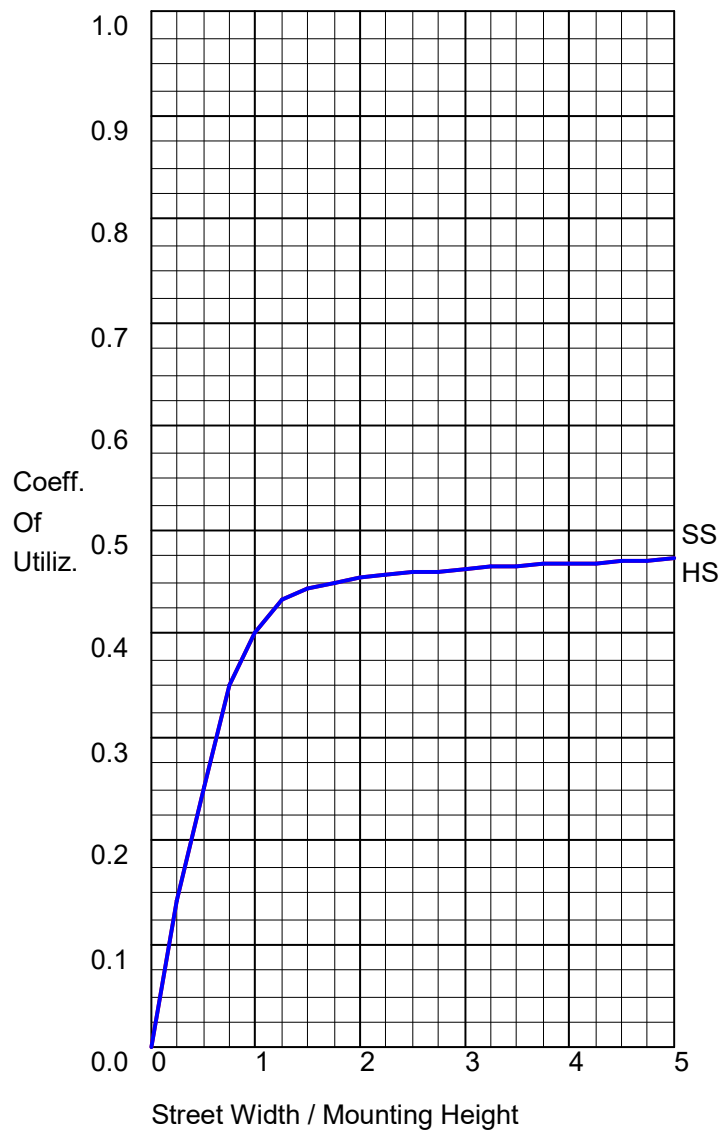
| Vert.<br>Angles | Horizontal Angles |             |             |             |             |
|-----------------|-------------------|-------------|-------------|-------------|-------------|
|                 | <u>0.0</u>        | <u>22.5</u> | <u>45.0</u> | <u>67.5</u> | <u>90.0</u> |
| 0.0             | 1359              | 1359        | 1359        | 1359        | 1359        |
| 2.5             | 1338              | 1325        | 1324        | 1316        | 1292        |
| 5.0             | 1152              | 1075        | 963         | 830         | 820         |
| 7.5             | 785               | 709         | 679         | 709         | 707         |
| 10.0            | 462               | 451         | 430         | 457         | 463         |
| 12.5            | 190               | 203         | 194         | 206         | 204         |
| 15.0            | 162               | 158         | 163         | 187         | 191         |
| 17.5            | 180               | 171         | 175         | 204         | 195         |
| 20.0            | 200               | 187         | 171         | 173         | 175         |
| 22.5            | 258               | 247         | 249         | 266         | 247         |
| 25.0            | 399               | 381         | 420         | 461         | 366         |
| 27.5            | 577               | 553         | 568         | 613         | 445         |
| 30.0            | 613               | 566         | 532         | 574         | 466         |
| 32.5            | 439               | 446         | 416         | 455         | 375         |
| 35.0            | 393               | 391         | 374         | 401         | 327         |
| 37.5            | 377               | 368         | 361         | 377         | 319         |
| 40.0            | 358               | 361         | 356         | 370         | 316         |
| 42.5            | 351               | 353         | 358         | 364         | 314         |
| 45.0            | 339               | 345         | 353         | 357         | 314         |
| 47.5            | 315               | 325         | 327         | 337         | 293         |
| 50.0            | 279               | 282         | 277         | 287         | 251         |
| 52.5            | 195               | 199         | 190         | 194         | 170         |
| 55.0            | 104               | 105         | 96          | 97          | 95          |
| 57.5            | 49                | 47          | 46          | 49          | 50          |
| 60.0            | 39                | 39          | 39          | 41          | 41          |
| 62.5            | 37                | 37          | 37          | 38          | 37          |
| 65.0            | 35                | 36          | 35          | 36          | 36          |
| 67.5            | 35                | 37          | 35          | 34          | 34          |
| 70.0            | 33                | 35          | 36          | 36          | 37          |
| 72.5            | 32                | 33          | 32          | 32          | 34          |
| 75.0            | 34                | 35          | 34          | 34          | 37          |
| 77.5            | 42                | 43          | 39          | 39          | 38          |
| 80.0            | 48                | 48          | 41          | 40          | 40          |
| 82.5            | 43                | 43          | 44          | 40          | 39          |
| 85.0            | 29                | 30          | 38          | 40          | 39          |
| 87.5            | 18                | 18          | 21          | 24          | 30          |
| 90.0            | 13                | 13          | 13          | 13          | 16          |
| 92.5            | 13                | 13          | 13          | 13          | 13          |
| 95.0            | 13                | 13          | 12          | 12          | 13          |
| 97.5            | 12                | 12          | 12          | 12          | 13          |
| 100.0           | 13                | 13          | 12          | 12          | 13          |
| 102.5           | 12                | 12          | 12          | 12          | 12          |
| 105.0           | 11                | 10          | 10          | 10          | 11          |
| 107.5           | 9                 | 9           | 9           | 9           | 9           |
| 110.0           | 7                 | 7           | 7           | 7           | 7           |
| 112.5           | 6                 | 6           | 6           | 7           | 7           |
| 115.0           | 6                 | 6           | 6           | 6           | 7           |
| 117.5           | 6                 | 6           | 6           | 6           | 6           |
| 120.0           | 6                 | 6           | 6           | 6           | 6           |
| 122.5           | 6                 | 6           | 6           | 6           | 6           |
| 125.0           | 6                 | 6           | 6           | 6           | 6           |
| 127.5           | 6                 | 6           | 6           | 6           | 6           |
| 130.0           | 6                 | 6           | 6           | 6           | 6           |

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**CANDELA TABULATION - (Cont.)**

|              |   |   |   |   |   |
|--------------|---|---|---|---|---|
| <b>132.5</b> | 6 | 6 | 6 | 6 | 6 |
| <b>135.0</b> | 6 | 6 | 6 | 6 | 6 |
| <b>137.5</b> | 6 | 6 | 6 | 6 | 6 |
| <b>140.0</b> | 6 | 6 | 6 | 6 | 6 |
| <b>142.5</b> | 6 | 6 | 6 | 6 | 6 |
| <b>145.0</b> | 6 | 6 | 6 | 6 | 6 |
| <b>147.5</b> | 6 | 6 | 6 | 6 | 6 |
| <b>150.0</b> | 6 | 6 | 6 | 6 | 6 |
| <b>152.5</b> | 6 | 6 | 6 | 6 | 6 |
| <b>155.0</b> | 5 | 6 | 6 | 6 | 5 |
| <b>157.5</b> | 5 | 5 | 5 | 5 | 5 |
| <b>160.0</b> | 5 | 5 | 5 | 5 | 5 |
| <b>162.5</b> | 5 | 5 | 5 | 5 | 5 |
| <b>165.0</b> | 5 | 5 | 5 | 5 | 5 |
| <b>167.5</b> | 4 | 5 | 5 | 5 | 5 |
| <b>170.0</b> | 4 | 4 | 4 | 4 | 4 |
| <b>172.5</b> | 4 | 4 | 4 | 4 | 4 |
| <b>175.0</b> | 3 | 3 | 3 | 4 | 4 |
| <b>177.5</b> | 3 | 3 | 3 | 4 | 4 |
| <b>180.0</b> | 3 | 3 | 3 | 3 | 3 |

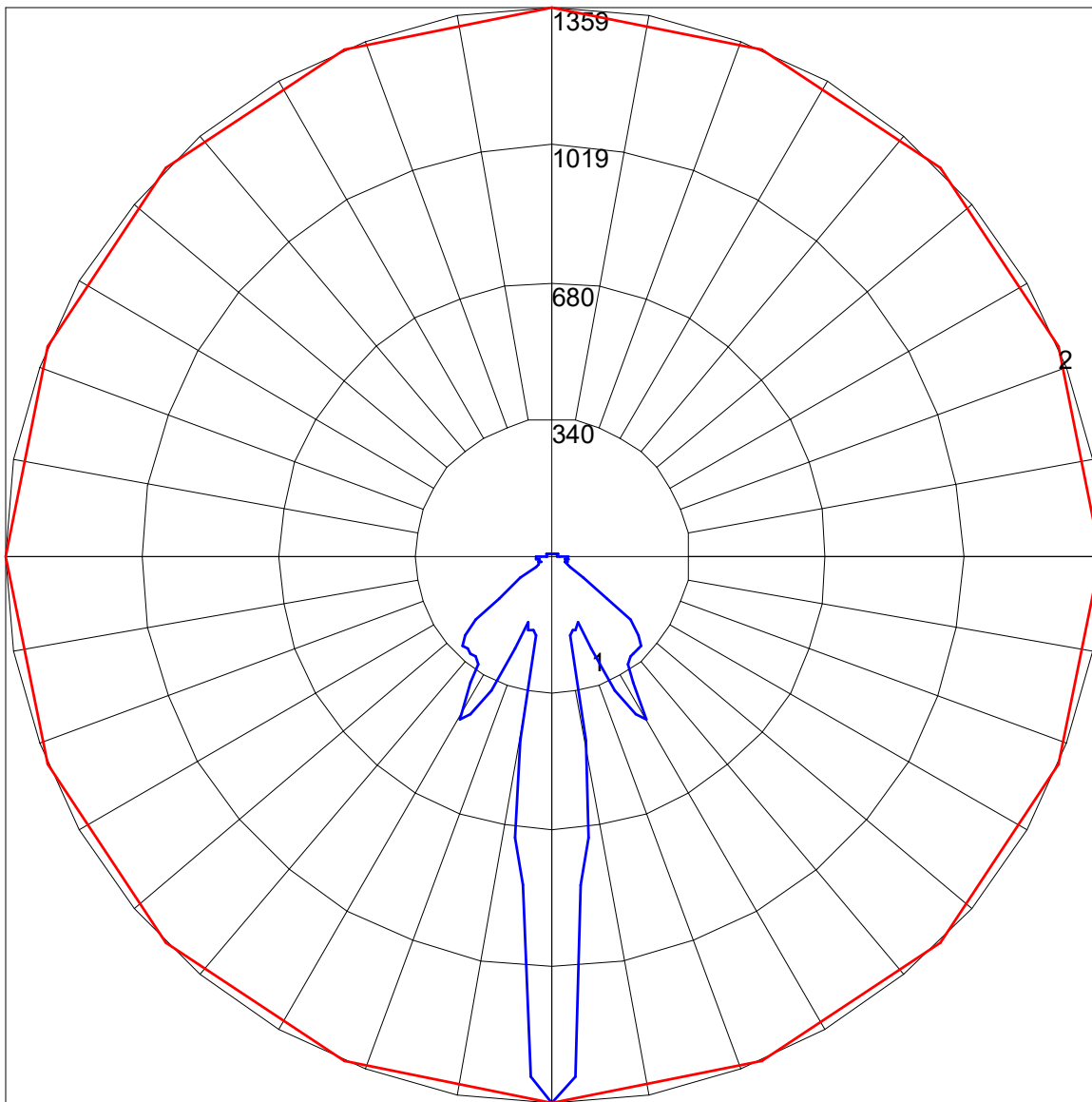
### COEFFICIENTS OF UTILIZATION



### FLUX DISTRIBUTION

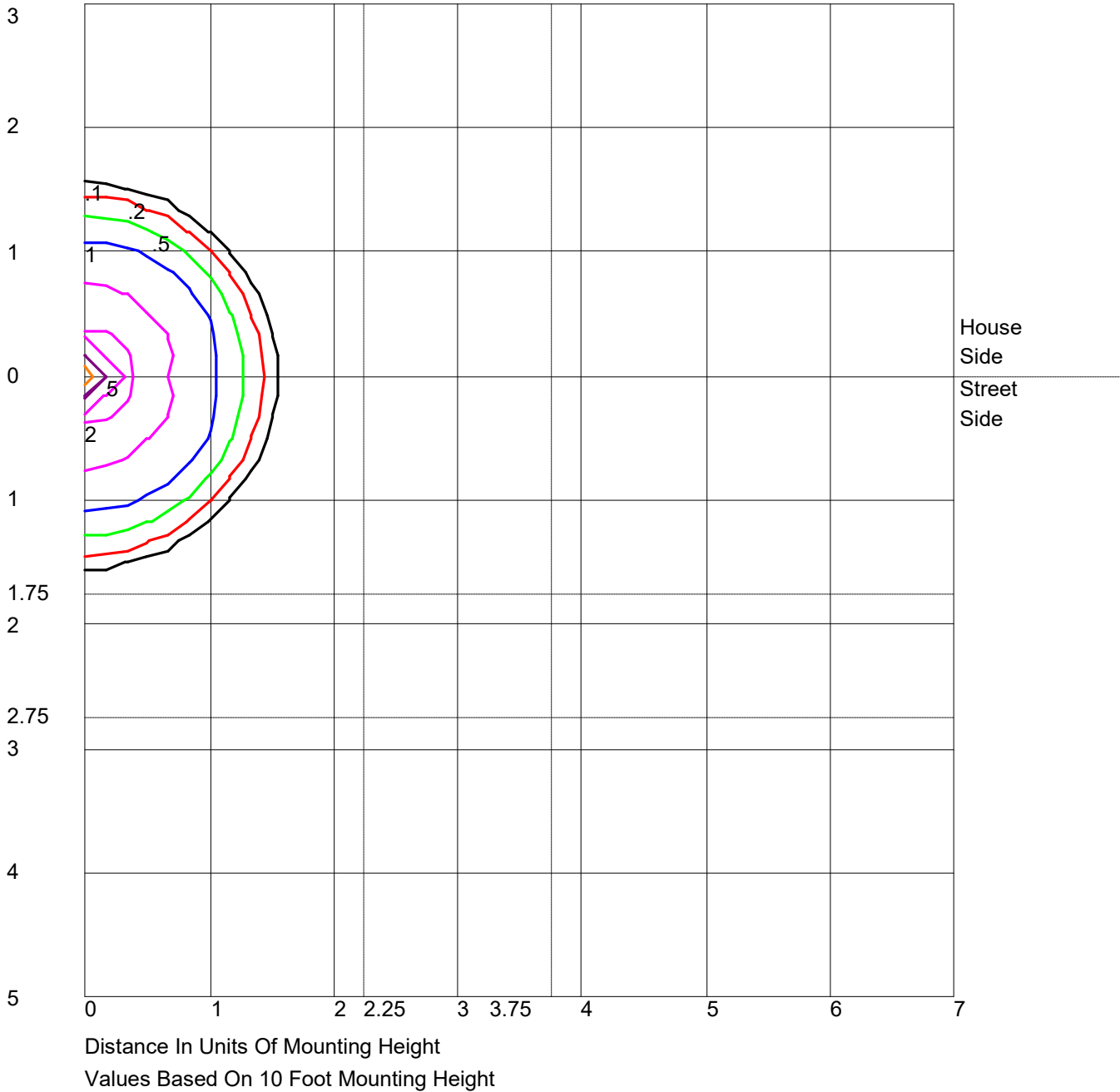
|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 529.3  | 47.8                    |
| Downward House Side  | 529.3  | 47.8                    |
| Downward Total       | 1058.6 | 95.6                    |
| Upward Street Side   | 24.5   | 2.2                     |
| Upward House Side    | 24.5   | 2.2                     |
| Upward Total         | 49.0   | 4.4                     |
| Total Flux           | 1107.6 | 100.0                   |

POLAR GRAPH



Maximum Candela = 1359 Located At Horizontal Angle = 90, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



# PHOTO IES R

