



**IES ROAD REPORT**  
**PHOTOMETRIC FILENAME : AX-80-40-3-D.IES**

**DESCRIPTIVE INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] 12500748.06  
[TESTLAB] UL Verification Services Inc.  
[ISSUE DATE] 9/18/2018  
[MANUFAC] Express Imaging Systems LLC dba Evluma  
[LUMCAT] AX-80-40-3-D (Scaled from AX-70-50-3-D)  
[LUMINAIRE] Gray metal housing, white plastic reflector and dome glass  
[MORE] lens  
[LAMP] One (1) white LED with optic below  
[BALLAST] Internal  
[OTHER] This test was performed using the calibrated photodetector met  
[MORE] hod of absolute photometry.

**CHARACTERISTICS**

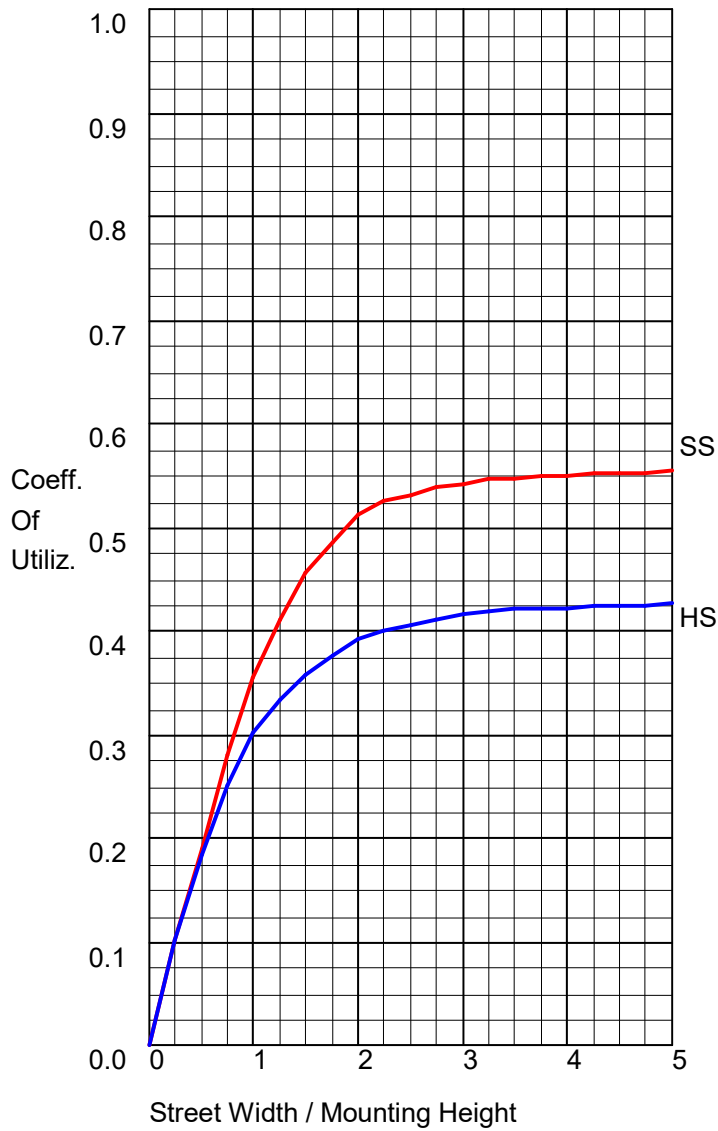
|   |                                   |
|---|-----------------------------------|
| IES Classification                              | Type III                          |
| Longitudinal Classification                     | Short                             |
| Lumens Per Lamp                                 | N.A. (absolute)                   |
| Total Lamp Lumens                               | N.A. (absolute)                   |
| Luminaire Lumens                                | 10536                             |
| Downward Total Efficiency                       | N.A. (absolute)                   |
| Total Luminaire Efficiency                      | N.A. (absolute)                   |
| Luminaire Efficacy Rating (LER)                 | 132                               |
| Total Luminaire Watts                           | 80                                |
| Ballast Factor                                  | 1.00                              |
| Upward Waste Light Ratio                        | 0.01                              |
| Maximum Candela                                 | 3917.554                          |
| Maximum Candela Angle                           | 62.5H 65V                         |
| Maximum Candela (<90 Degrees Vertical)          | 3917.554                          |
| Maximum Candela Angle (<90 Degrees Vertical)    | 62.5H 65V                         |
| Maximum Candela At 90 Degrees Vertical          | 322.702 (3.1% Luminaire Lumens)   |
| Maximum Candela from 80 to <90 Degrees Vertical | 1711.233 (16.2% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)                   |

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**LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 868.2    | N.A.   | 8.2         |
| FM - Front-Medium (30-60)     | 2724.3   | N.A.   | 25.9        |
| FH - Front-High (60-80)       | 2098.3   | N.A.   | 19.9        |
| FVH - Front-Very High (80-90) | 222.7    | N.A.   | 2.1         |
| BL - Back-Low (0-30)          | 934.1    | N.A.   | 8.9         |
| BM - Back-Medium (30-60)      | 2174.9   | N.A.   | 20.6        |
| BH - Back-High (60-80)        | 1300.9   | N.A.   | 12.3        |
| BVH - Back-Very High (80-90)  | 150.8    | N.A.   | 1.4         |
| UL - Uplight-Low (90-100)     | 57.2     | N.A.   | 0.5         |
| UH - Uplight-High (100-180)   | 4.4      | N.A.   | 0.0         |
| Total                         | 10535.7  | N.A.   | 100.0       |
| BUG Rating                    | B3-U3-G3 |        |             |

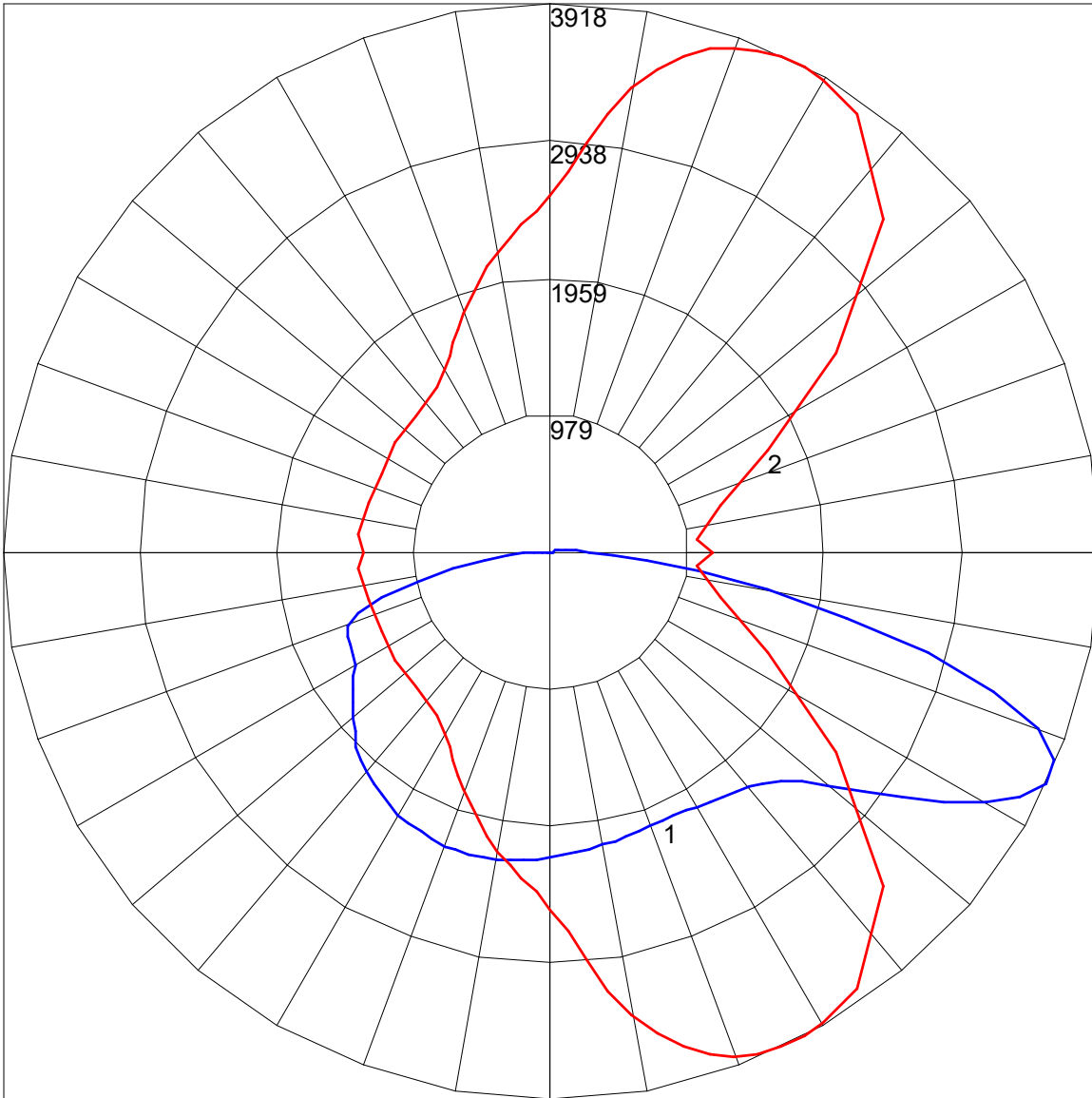
**COEFFICIENTS OF UTILIZATION**



**FLUX DISTRIBUTION**

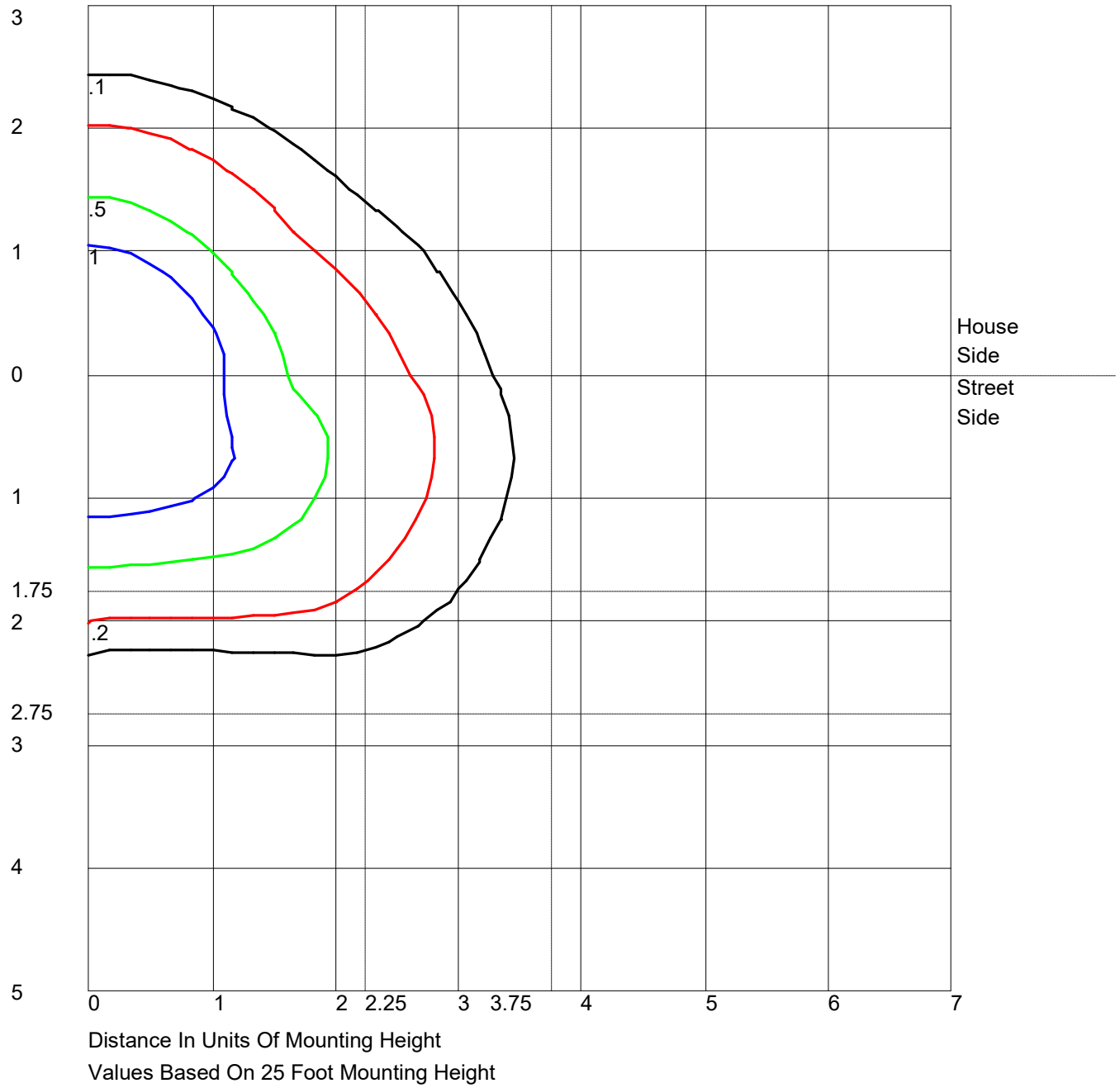
|                      | Lumens         | Percent Of Luminaire |
|----------------------|----------------|----------------------|
| Downward Street Side | 5913.5         | 56.1                 |
| Downward House Side  | 4560.6         | 43.3                 |
| Downward Total       | 10474.1        | 99.4                 |
| Upward Street Side   | 39.1           | 0.4                  |
| Upward House Side    | 22.5           | 0.2                  |
| Upward Total         | 61.6           | 0.6                  |
| <b>Total Flux</b>    | <b>10535.7</b> | <b>100.0</b>         |

POLAR GRAPH

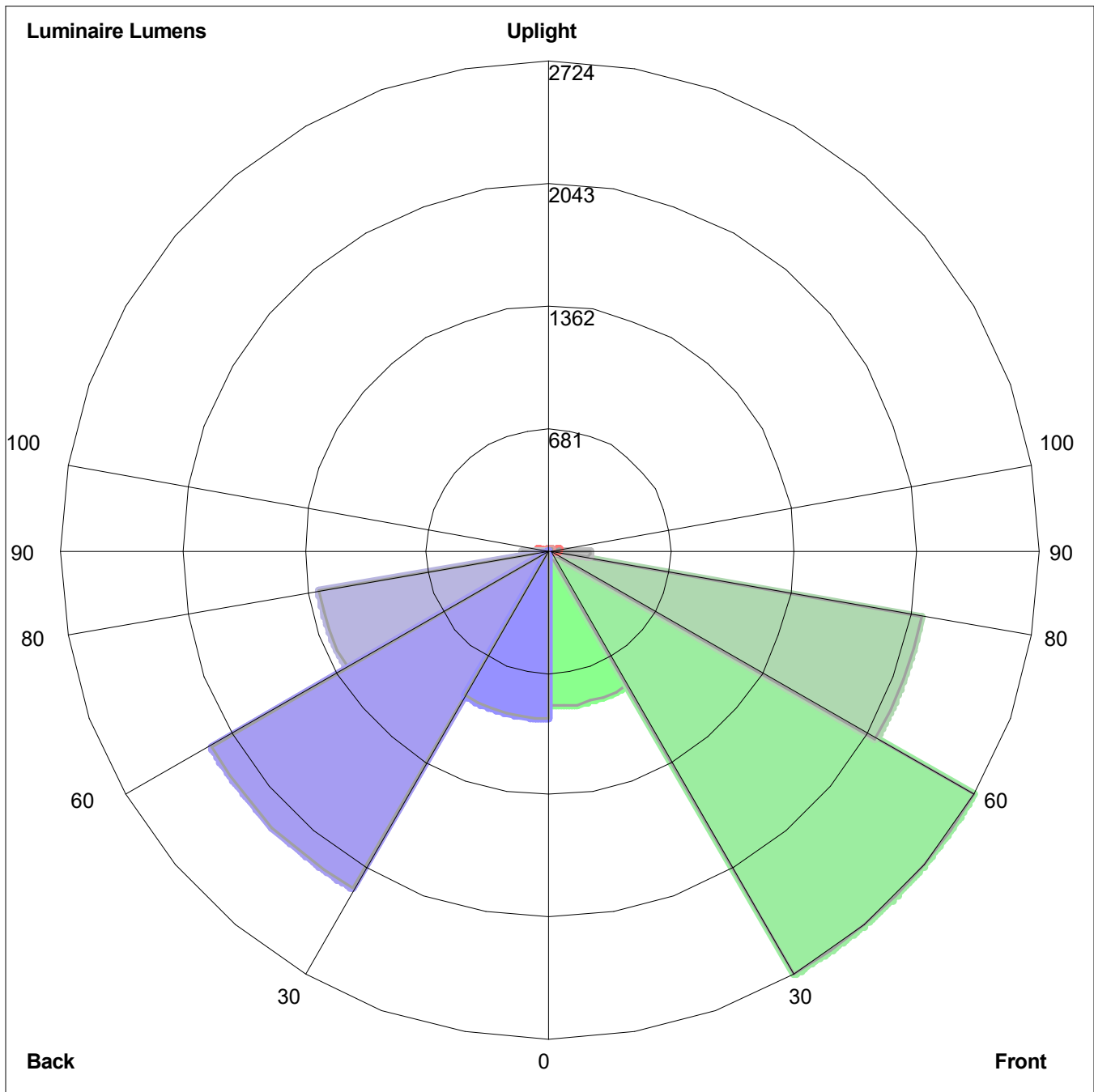


Maximum Candela = 3917.554 Located At Horizontal Angle = 62.5, Vertical Angle = 65  
# 1 - Vertical Plane Through Horizontal Angles (62.5 - 242.5) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (65) (Through Max. Cd.)

ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=868.2, Medium=2724.3, High=2098.3, Very High=222.7  
Back: Low=934.1, Medium=2174.9, High=1300.9, Very High=150.8  
Uplight: Low=57.2, High=4.4

BUG Rating : B3-U3-G3