

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W6CRDI-XX-L30-950U-L30-950D-XXX-DIM-UNV-W-XX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W6CR\_Angela-XW\_(V18)\_measured  
[TESTLAB] LEDIL Inc  
[TESTDATE] 21 Aug 2024  
[ISSUEDATE] 2025-08-06  
[MANUFAC] H.E. WILLIAMS, INC.  
[LUMCAT] W6CRDI-xx-L30-950U-L30-950D-xxx-DIM-UNV-W-xx  
[LUMINAIRE] 6 INCH ROUND DIRECT INDIRECT WET LOCATION LED  
[MORE] CYLINDER WITH WIDE DIST  
[LAMPCAT] BL VERO 18  
[LAMP] LED  
[OTHER] Absolute Photometry

### CHARACTERISTICS

|                                                 |                                |
|-------------------------------------------------|--------------------------------|
| IES Classification                              | Type VS                        |
| Longitudinal Classification                     | Very Short                     |
| Lumens Per Lamp                                 | N.A. (absolute)                |
| Total Lamp Lumens                               | N.A. (absolute)                |
| Luminaire Lumens                                | 5784                           |
| Downward Total Efficiency                       | N.A. (absolute)                |
| Total Luminaire Efficiency                      | N.A. (absolute)                |
| Luminaire Efficacy Rating (LER)                 | 107                            |
| Total Luminaire Watts                           | 54                             |
| Ballast Factor                                  | 1.00                           |
| Upward Waste Light Ratio                        | 0.50                           |
| Maximum Candela                                 | 2409.606                       |
| Maximum Candela Angle                           | 360H 0V                        |
| Maximum Candela (<90 Degrees Vertical)          | 2409.606                       |
| Maximum Candela Angle (<90 Degrees Vertical)    | 360H 0V                        |
| Maximum Candela At 90 Degrees Vertical          | 1.602 (0.0% Luminaire Lumens)  |
| Maximum Candela from 80 to <90 Degrees Vertical | 14.937 (0.3% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)                |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W6CRDI-XX-L30-950U-L30-950D-XXX-DIM-UNV-W-XX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 767.8    | N.A.   | 13.3        |
| FM - Front-Medium (30-60)     | 580.4    | N.A.   | 10.0        |
| FH - Front-High (60-80)       | 94.4     | N.A.   | 1.6         |
| FVH - Front-Very High (80-90) | 3.5      | N.A.   | 0.1         |
| BL - Back-Low (0-30)          | 767.8    | N.A.   | 13.3        |
| BM - Back-Medium (30-60)      | 580.4    | N.A.   | 10.0        |
| BH - Back-High (60-80)        | 94.4     | N.A.   | 1.6         |
| BVH - Back-Very High (80-90)  | 3.5      | N.A.   | 0.1         |
| UL - Uplight-Low (90-100)     | 7.0      | N.A.   | 0.1         |
| UH - Uplight-High (100-180)   | 2885.1   | N.A.   | 49.9        |
| Total                         | 5784.3   | N.A.   | 100.0       |
| BUG Rating                    | B2-U5-G0 |        |             |

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## CANDELA TABULATION

| Vert.<br>Angles | Horizontal Angles |           |           |            |            |            |            |            |            |
|-----------------|-------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
|                 | <u>0</u>          | <u>45</u> | <u>90</u> | <u>135</u> | <u>180</u> | <u>225</u> | <u>270</u> | <u>315</u> | <u>360</u> |
| 0               | 2409.606          | 2409.606  | 2409.606  | 2409.606   | 2409.606   | 2409.606   | 2409.606   | 2409.606   | 2409.606   |
| 5               | 2384.778          | 2383.466  | 2379.230  | 2383.466   | 2384.778   | 2383.466   | 2379.230   | 2383.466   | 2384.778   |
| 10              | 2236.102          | 2232.773  | 2230.630  | 2232.773   | 2236.102   | 2232.773   | 2230.630   | 2232.773   | 2236.102   |
| 15              | 2002.222          | 2007.828  | 2005.821  | 2007.828   | 2002.222   | 2007.828   | 2005.821   | 2007.828   | 2002.222   |
| 20              | 1796.421          | 1800.175  | 1800.783  | 1800.175   | 1796.421   | 1800.175   | 1800.783   | 1800.175   | 1796.421   |
| 25              | 1651.961          | 1647.629  | 1648.488  | 1647.629   | 1651.961   | 1647.629   | 1648.488   | 1647.629   | 1651.961   |
| 30              | 1417.136          | 1399.169  | 1402.874  | 1399.169   | 1417.136   | 1399.169   | 1402.874   | 1399.169   | 1417.136   |
| 35              | 851.648           | 852.169   | 859.995   | 852.169    | 851.648    | 852.169    | 859.995    | 852.169    | 851.648    |
| 40              | 518.303           | 524.334   | 527.856   | 524.334    | 518.303    | 524.334    | 527.856    | 524.334    | 518.303    |
| 45              | 438.522           | 438.947   | 437.712   | 438.947    | 438.522    | 438.947    | 437.712    | 438.947    | 438.522    |
| 50              | 365.825           | 365.940   | 365.111   | 365.940    | 365.825    | 365.940    | 365.111    | 365.940    | 365.825    |
| 55              | 289.769           | 289.402   | 288.041   | 289.402    | 289.769    | 289.402    | 288.041    | 289.402    | 289.769    |
| 60              | 210.123           | 209.593   | 208.329   | 209.593    | 210.123    | 209.593    | 208.329    | 209.593    | 210.123    |
| 65              | 140.156           | 139.770   | 139.230   | 139.770    | 140.156    | 139.770    | 139.230    | 139.770    | 140.156    |
| 70              | 83.119            | 83.119    | 83.109    | 83.119     | 83.119     | 83.119     | 83.109     | 83.119     | 83.119     |
| 75              | 41.135            | 41.222    | 41.251    | 41.222     | 41.135     | 41.222     | 41.251     | 41.222     | 41.135     |
| 80              | 14.744            | 14.889    | 14.937    | 14.889     | 14.744     | 14.889     | 14.937     | 14.889     | 14.744     |
| 85              | 4.757             | 4.767     | 4.728     | 4.767      | 4.757      | 4.767      | 4.728      | 4.767      | 4.757      |
| 90              | 1.254             | 1.409     | 1.602     | 1.409      | 1.254      | 1.409      | 1.602      | 1.409      | 1.254      |
| 95              | 4.757             | 4.767     | 4.728     | 4.767      | 4.757      | 4.767      | 4.728      | 4.767      | 4.757      |
| 100             | 14.744            | 14.889    | 14.937    | 14.889     | 14.744     | 14.889     | 14.937     | 14.889     | 14.744     |
| 105             | 41.135            | 41.222    | 41.251    | 41.222     | 41.135     | 41.222     | 41.251     | 41.222     | 41.135     |
| 110             | 83.119            | 83.119    | 83.109    | 83.119     | 83.119     | 83.119     | 83.109     | 83.119     | 83.119     |
| 115             | 140.156           | 139.770   | 139.230   | 139.770    | 140.156    | 139.770    | 139.230    | 139.770    | 140.156    |
| 120             | 210.123           | 209.593   | 208.329   | 209.593    | 210.123    | 209.593    | 208.329    | 209.593    | 210.123    |
| 125             | 289.769           | 289.402   | 288.041   | 289.402    | 289.769    | 289.402    | 288.041    | 289.402    | 289.769    |
| 130             | 365.825           | 365.940   | 365.111   | 365.940    | 365.825    | 365.940    | 365.111    | 365.940    | 365.825    |
| 135             | 438.522           | 438.947   | 437.712   | 438.947    | 438.522    | 438.947    | 437.712    | 438.947    | 438.522    |
| 140             | 518.303           | 524.334   | 527.856   | 524.334    | 518.303    | 524.334    | 527.856    | 524.334    | 518.303    |
| 145             | 851.648           | 852.169   | 859.995   | 852.169    | 851.648    | 852.169    | 859.995    | 852.169    | 851.648    |
| 150             | 1417.136          | 1399.169  | 1402.874  | 1399.169   | 1417.136   | 1399.169   | 1402.874   | 1399.169   | 1417.136   |
| 155             | 1651.961          | 1647.629  | 1648.488  | 1647.629   | 1651.961   | 1647.629   | 1648.488   | 1647.629   | 1651.961   |
| 160             | 1796.421          | 1800.175  | 1800.783  | 1800.175   | 1796.421   | 1800.175   | 1800.783   | 1800.175   | 1796.421   |
| 165             | 2002.222          | 2007.828  | 2005.821  | 2007.828   | 2002.222   | 2007.828   | 2005.821   | 2007.828   | 2002.222   |
| 170             | 2236.102          | 2232.773  | 2230.630  | 2232.773   | 2236.102   | 2232.773   | 2230.630   | 2232.773   | 2236.102   |
| 175             | 2384.778          | 2383.466  | 2379.230  | 2383.466   | 2384.778   | 2383.466   | 2379.230   | 2383.466   | 2384.778   |
| 180             | 2409.432          | 2409.432  | 2409.432  | 2409.432   | 2409.432   | 2409.432   | 2409.432   | 2409.432   | 2409.432   |

COEFFICIENTS OF UTILIZATION



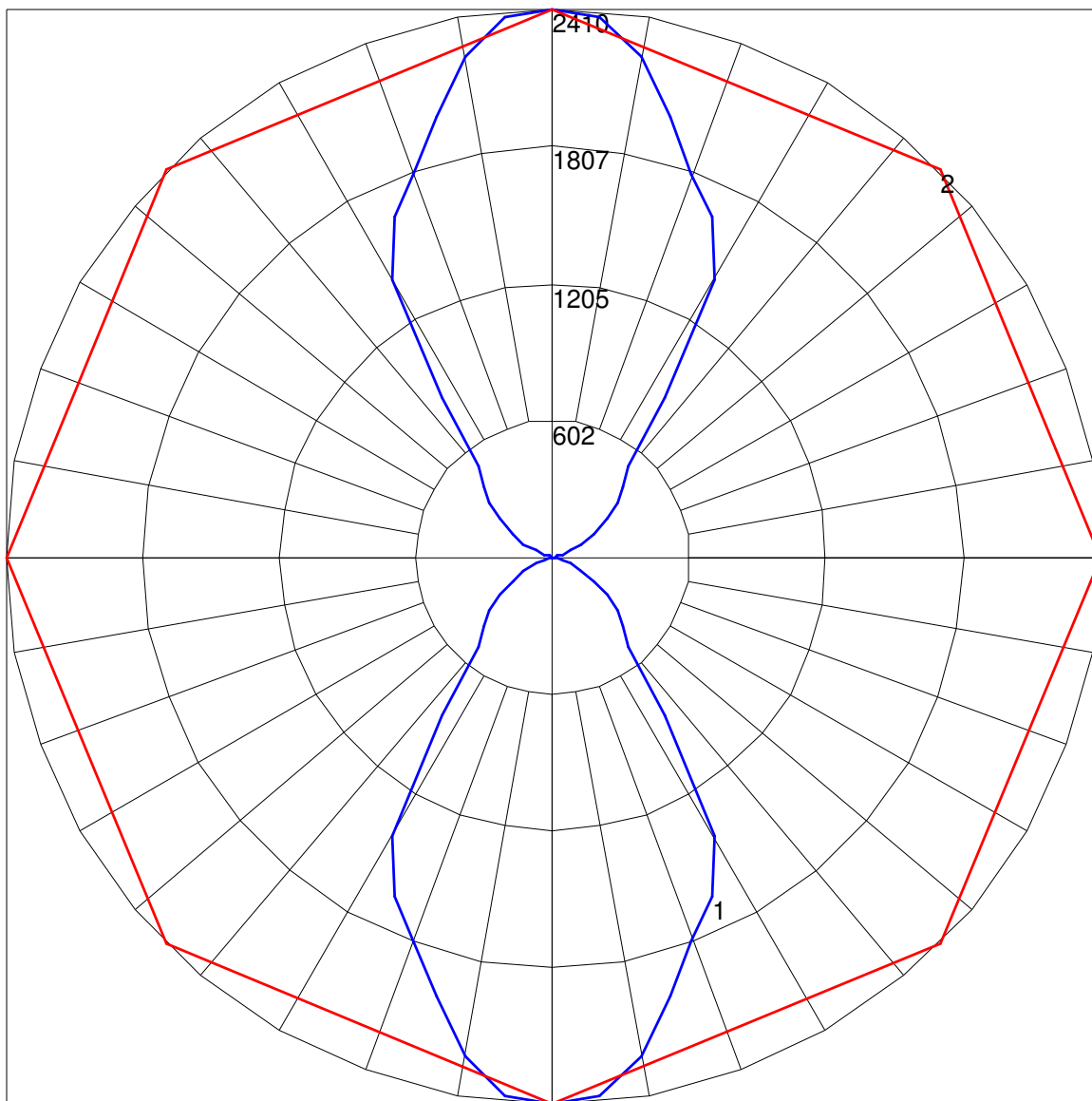
FLUX DISTRIBUTION

|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 1446.1 | 25.0                    |
| Downward House Side  | 1446.1 | 25.0                    |
| Downward Total       | 2892.2 | 50.0                    |
| Upward Street Side   | 1446.1 | 25.0                    |
| Upward House Side    | 1446.1 | 25.0                    |
| Upward Total         | 2892.2 | 50.0                    |
| Total Flux           | 5784.4 | 100.0                   |

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## POLAR GRAPH



Maximum Candela = 2409.606 Located At Horizontal Angle = 360, Vertical Angle = 0

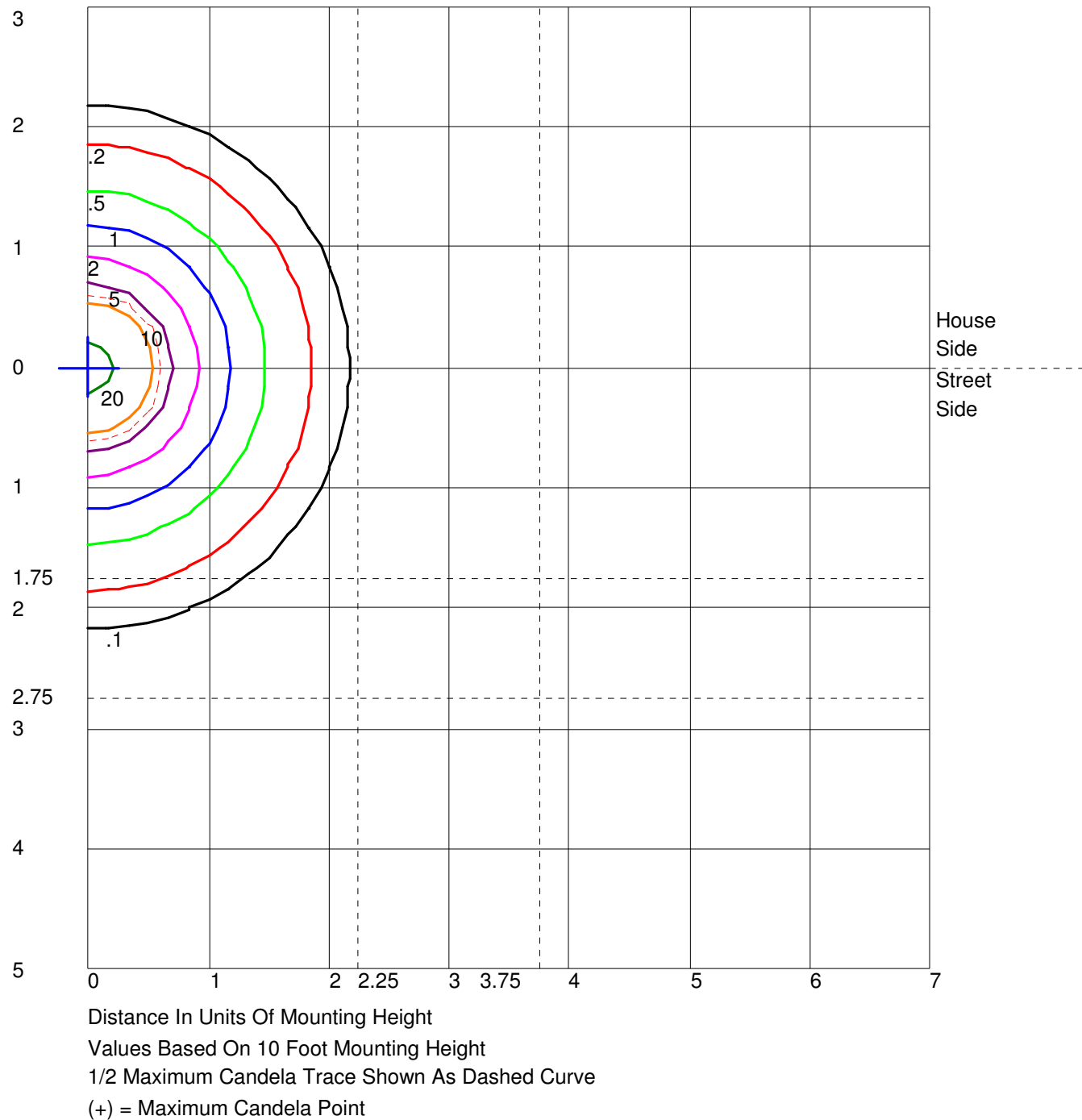
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)

# 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

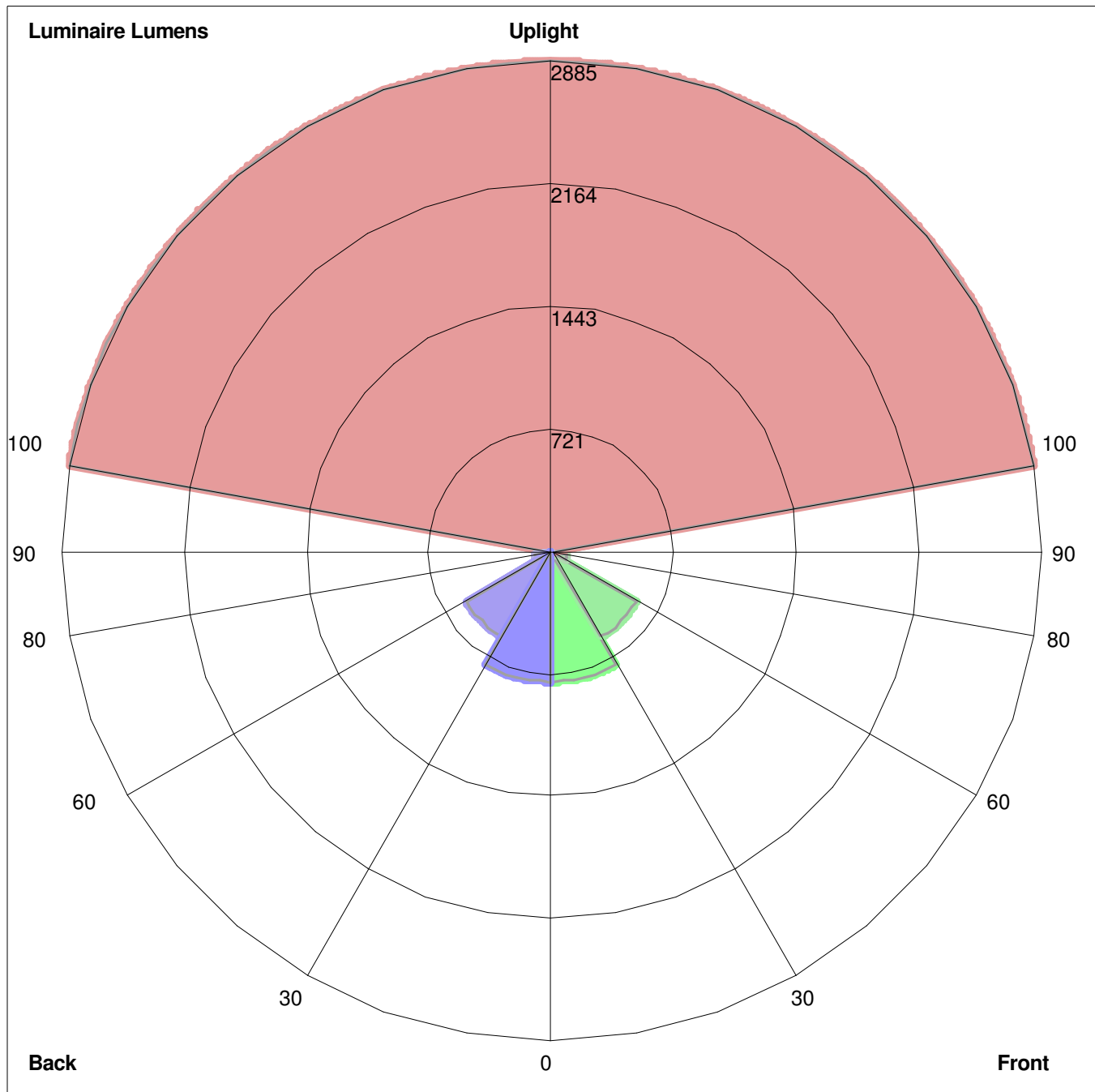
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## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=767.8, Medium=580.4, High=94.4, Very High=3.5  
Back: Low=767.8, Medium=580.4, High=94.4, Very High=3.5  
Uplight: Low=7.0, High=2885.1

BUG Rating : B2-U5-G0