

## IES ROAD REPORT

PHOTOMETRIC FILENAME : W4CRDI-XX-L10-940U-L10-940D-XXX-DIM-UNV-M-XX\_.IES

### DESCRIPTIVE INFORMATION (From Photometric File)

IESNA:LM-63-2002  
[TEST] GEN FROM W4CR\_BARBARA-MEDIUM DIST  
[TESTLAB] LEDIL Inc  
[TESTDATE] 07/03/2025  
[ISSUEDATE] 2025-08-07  
[MANUFAC] H.E. WILLIAMS, INC. - CARTHAGE, MO  
[LUMCAT] W4CRDI-xx-L10-940U-L10-940D-xxx-DIM-UNV-M-xx  
[LUMINAIRE] 4 INCH ROUND DIRECT-INDIRECT OUTDOOR LED CYLINDER  
[MORE] MEDIUM DISTRIBUTION WITH MICROPRISM LENS  
[MORE] 0-10V LED DRIVER

### CHARACTERISTICS

|   |                              |
|---|------------------------------|
| IES Classification                              | Type VS                      |
| Longitudinal Classification                     | Very Short                   |
| Lumens Per Lamp                                 | N.A. (absolute)              |
| Total Lamp Lumens                               | N.A. (absolute)              |
| Luminaire Lumens                                | 2023                         |
| Downward Total Efficiency                       | N.A. (absolute)              |
| Total Luminaire Efficiency                      | N.A. (absolute)              |
| Luminaire Efficacy Rating (LER)                 | 103                          |
| Total Luminaire Watts                           | 19.6                         |
| Ballast Factor                                  | 1.00                         |
| Upward Waste Light Ratio                        | 0.50                         |
| Maximum Candela                                 | 1900.248                     |
| Maximum Candela Angle                           | 360H 0V                      |
| Maximum Candela (<90 Degrees Vertical)          | 1900.248                     |
| Maximum Candela Angle (<90 Degrees Vertical)    | 360H 0V                      |
| Maximum Candela At 90 Degrees Vertical          | .283 (0.0% Luminaire Lumens) |
| Maximum Candela from 80 to <90 Degrees Vertical | .806 (0.0% Luminaire Lumens) |
| Cutoff Classification (deprecated)              | N.A. (absolute)              |

**IES ROAD REPORT****PHOTOMETRIC FILENAME : W4CRDI-XX-L10-940U-L10-940D-XXX-DIM-UNV-M-XX\_.IES****LUMINAIRE CLASSIFICATION SYSTEM (LCS)**

|                               | Lumens   | % Lamp | % Luminaire |
|-------------------------------|----------|--------|-------------|
| FL - Front-Low (0-30)         | 417.8    | N.A.   | 20.7        |
| FM - Front-Medium (30-60)     | 83.1     | N.A.   | 4.1         |
| FH - Front-High (60-80)       | 4.6      | N.A.   | 0.2         |
| FVH - Front-Very High (80-90) | 0.3      | N.A.   | 0.0         |
| BL - Back-Low (0-30)          | 417.8    | N.A.   | 20.7        |
| BM - Back-Medium (30-60)      | 83.1     | N.A.   | 4.1         |
| BH - Back-High (60-80)        | 4.6      | N.A.   | 0.2         |
| BVH - Back-Very High (80-90)  | 0.3      | N.A.   | 0.0         |
| UL - Uplight-Low (90-100)     | 0.6      | N.A.   | 0.0         |
| UH - Uplight-High (100-180)   | 1011.1   | N.A.   | 50.0        |
| Total                         | 2023.3   | N.A.   | 100.0       |
| BUG Rating                    | B1-U5-G0 |        |             |

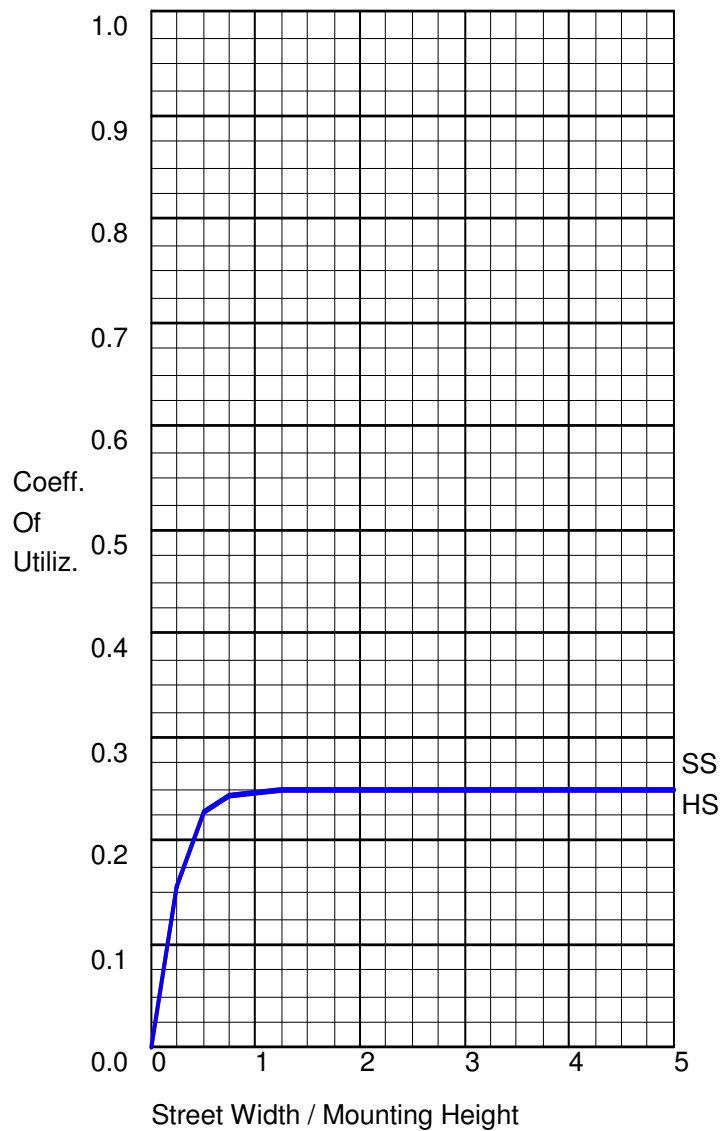
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## CANDELA TABULATION

| 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               | 1900.248          | 1900.248  | 1900.248  | 1900.248   | 1900.248   | 1900.248   | 1900.248   | 1900.248   | 1900.248   |
| 5               | 1836.631          | 1832.142  | 1830.346  | 1832.142   | 1836.631   | 1832.142   | 1830.346   | 1832.142   | 1836.631   |
| 10              | 1627.612          | 1627.137  | 1623.475  | 1627.137   | 1627.612   | 1627.137   | 1623.475   | 1627.137   | 1627.612   |
| 15              | 1289.956          | 1291.512  | 1297.979  | 1291.512   | 1289.956   | 1291.512   | 1297.979   | 1291.512   | 1289.956   |
| 20              | 940.876           | 946.958   | 957.637   | 946.958    | 940.876    | 946.958    | 957.637    | 946.958    | 940.876    |
| 25              | 666.313           | 671.303   | 678.804   | 671.303    | 666.313    | 671.303    | 678.804    | 671.303    | 666.313    |
| 30              | 424.595           | 432.433   | 434.466   | 432.433    | 424.595    | 432.433    | 434.466    | 432.433    | 424.595    |
| 35              | 185.457           | 188.734   | 191.593   | 188.734    | 185.457    | 188.734    | 191.593    | 188.734    | 185.457    |
| 40              | 52.237            | 53.797    | 56.678    | 53.797     | 52.237     | 53.797     | 56.678     | 53.797     | 52.237     |
| 45              | 21.962            | 23.232    | 25.093    | 23.232     | 21.962     | 23.232     | 25.093     | 23.232     | 21.962     |
| 50              | 16.631            | 17.182    | 17.879    | 17.182     | 16.631     | 17.182     | 17.879     | 17.182     | 16.631     |
| 55              | 13.271            | 13.525    | 13.771    | 13.525     | 13.271     | 13.525     | 13.771     | 13.525     | 13.271     |
| 60              | 9.370             | 9.464     | 9.620     | 9.464      | 9.370      | 9.464      | 9.620      | 9.464      | 9.370      |
| 65              | 6.256             | 6.263     | 6.361     | 6.263      | 6.256      | 6.263      | 6.361      | 6.263      | 6.256      |
| 70              | 4.257             | 4.220     | 4.264     | 4.220      | 4.257      | 4.220      | 4.264      | 4.220      | 4.257      |
| 75              | 2.533             | 2.468     | 2.489     | 2.468      | 2.533      | 2.468      | 2.489      | 2.468      | 2.533      |
| 80              | 0.806             | 0.795     | 0.784     | 0.795      | 0.806      | 0.795      | 0.784      | 0.795      | 0.806      |
| 85              | 0.584             | 0.584     | 0.577     | 0.584      | 0.584      | 0.584      | 0.577      | 0.584      | 0.584      |
| 90              | 0.283             | 0.276     | 0.240     | 0.276      | 0.283      | 0.276      | 0.240      | 0.276      | 0.283      |
| 95              | 0.584             | 0.584     | 0.577     | 0.584      | 0.584      | 0.584      | 0.577      | 0.584      | 0.584      |
| 100             | 0.806             | 0.795     | 0.784     | 0.795      | 0.806      | 0.795      | 0.784      | 0.795      | 0.806      |
| 105             | 2.533             | 2.468     | 2.489     | 2.468      | 2.533      | 2.468      | 2.489      | 2.468      | 2.533      |
| 110             | 4.257             | 4.220     | 4.264     | 4.220      | 4.257      | 4.220      | 4.264      | 4.220      | 4.257      |
| 115             | 6.256             | 6.263     | 6.361     | 6.263      | 6.256      | 6.263      | 6.361      | 6.263      | 6.256      |
| 120             | 9.370             | 9.464     | 9.620     | 9.464      | 9.370      | 9.464      | 9.620      | 9.464      | 9.370      |
| 125             | 13.271            | 13.525    | 13.771    | 13.525     | 13.271     | 13.525     | 13.771     | 13.525     | 13.271     |
| 130             | 16.631            | 17.182    | 17.879    | 17.182     | 16.631     | 17.182     | 17.879     | 17.182     | 16.631     |
| 135             | 21.962            | 23.232    | 25.093    | 23.232     | 21.962     | 23.232     | 25.093     | 23.232     | 21.962     |
| 140             | 52.237            | 53.797    | 56.678    | 53.797     | 52.237     | 53.797     | 56.678     | 53.797     | 52.237     |
| 145             | 185.457           | 188.734   | 191.593   | 188.734    | 185.457    | 188.734    | 191.593    | 188.734    | 185.457    |
| 150             | 424.595           | 432.433   | 434.466   | 432.433    | 424.595    | 432.433    | 434.466    | 432.433    | 424.595    |
| 155             | 666.313           | 671.303   | 678.804   | 671.303    | 666.313    | 671.303    | 678.804    | 671.303    | 666.313    |
| 160             | 940.876           | 946.958   | 957.637   | 946.958    | 940.876    | 946.958    | 957.637    | 946.958    | 940.876    |
| 165             | 1289.956          | 1291.512  | 1297.979  | 1291.512   | 1289.956   | 1291.512   | 1297.979   | 1291.512   | 1289.956   |
| 170             | 1627.612          | 1627.137  | 1623.475  | 1627.137   | 1627.612   | 1627.137   | 1623.475   | 1627.137   | 1627.612   |
| 175             | 1836.631          | 1832.142  | 1830.346  | 1832.142   | 1836.631   | 1832.142   | 1830.346   | 1832.142   | 1836.631   |
| 180             | 1900.041          | 1900.041  | 1900.041  | 1900.041   | 1900.041   | 1900.041   | 1900.041   | 1900.041   | 1900.041   |

COEFFICIENTS OF UTILIZATION



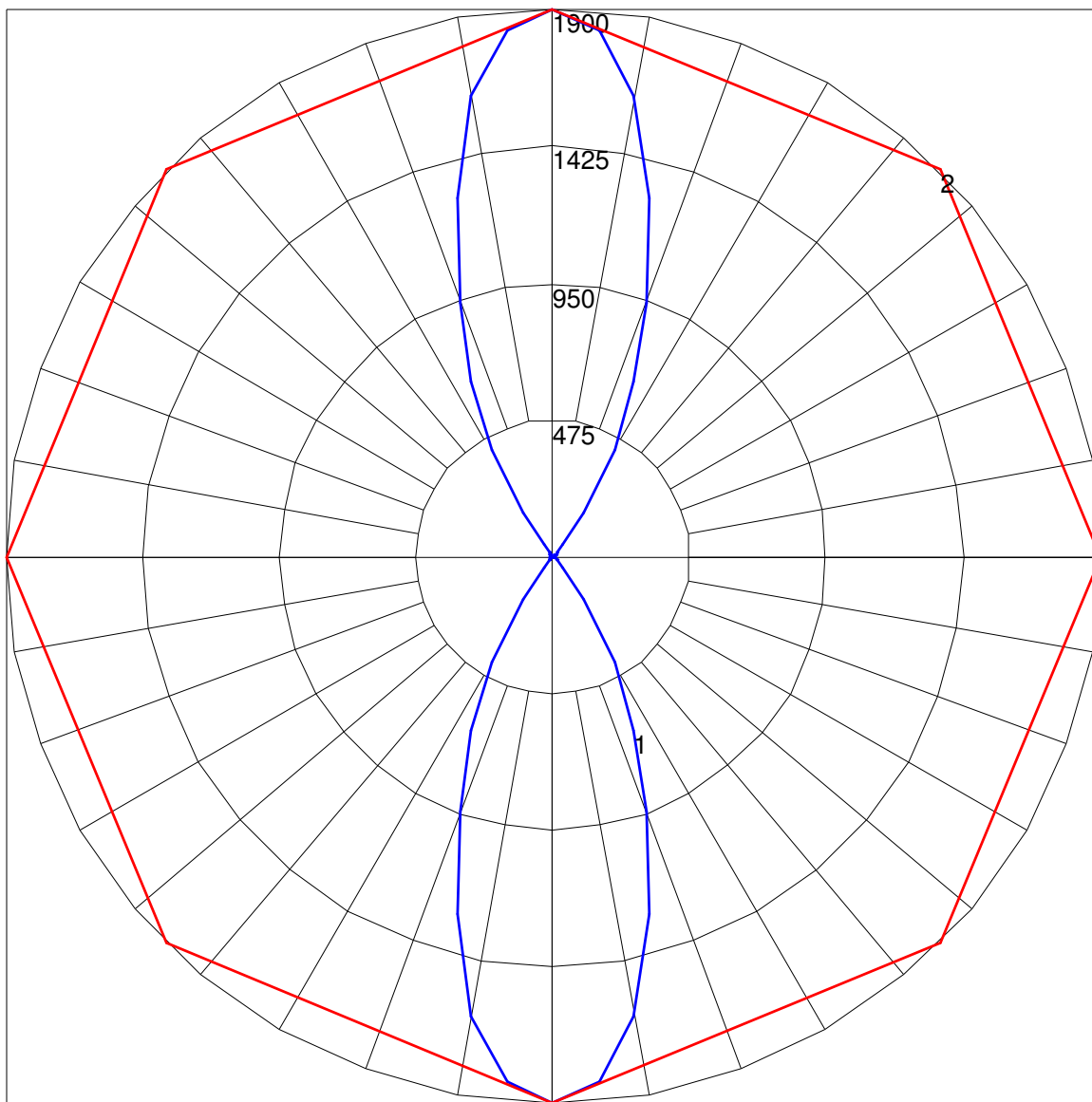
FLUX DISTRIBUTION

|                      | Lumens | Percent<br>Of Luminaire |
|----------------------|--------|-------------------------|
| Downward Street Side | 505.9  | 25.0                    |
| Downward House Side  | 505.9  | 25.0                    |
| Downward Total       | 1011.8 | 50.0                    |
| Upward Street Side   | 505.9  | 25.0                    |
| Upward House Side    | 505.9  | 25.0                    |
| Upward Total         | 1011.8 | 50.0                    |
| Total Flux           | 2023.6 | 100.0                   |

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## POLAR GRAPH



Maximum Candela = 1900.248 Located At Horizontal Angle = 360, Vertical Angle = 0

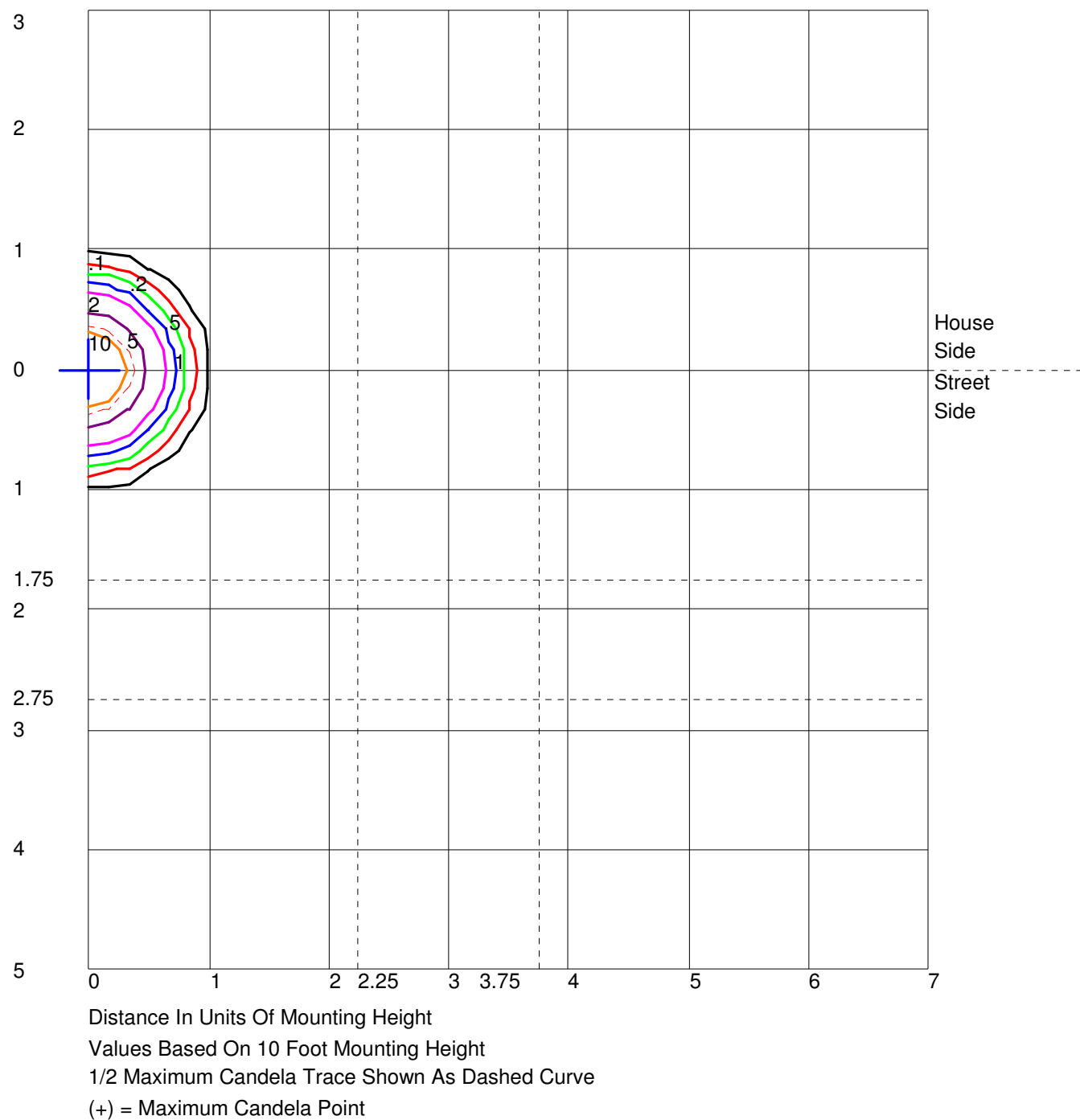
# 1 - Vertical Plane Through Horizontal Angles (360 - 180) (Through Max. Cd.)

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

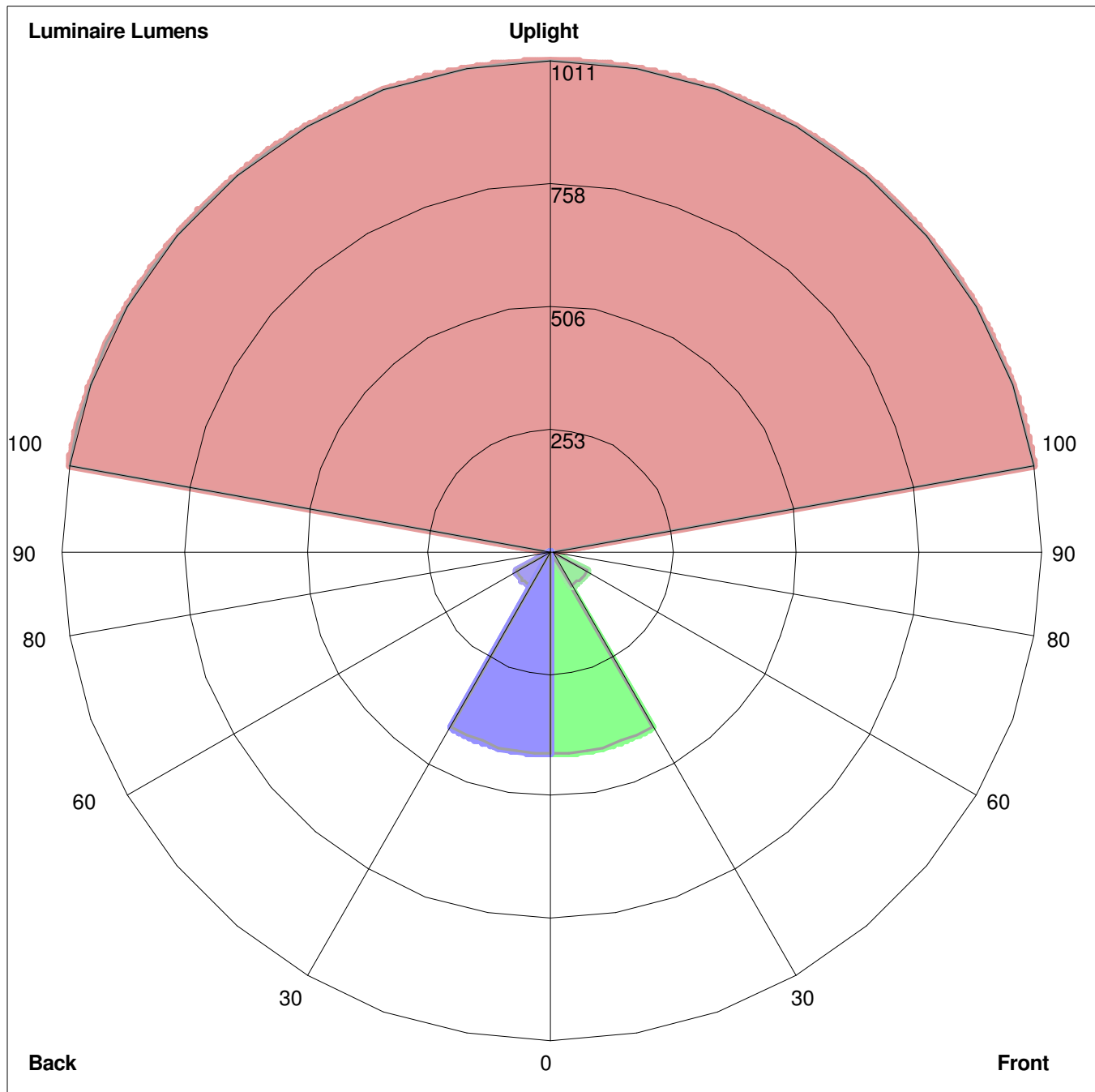
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## ISOFOOTCANDLE LINES OF HORIZONTAL ILLUMINANCE



LUMINAIRE CLASSIFICATION SYSTEM (LCS) GRAPH



Luminaire Lumens:  
Front: Low=417.8, Medium=83.1, High=4.6, Very High=0.3  
Back: Low=417.8, Medium=83.1, High=4.6, Very High=0.3  
Uplight: Low=0.6, High=1011.1

BUG Rating : B1-U5-G0