

# Photometrics Pro

## Luminaire Photometric Report

- [Evaluation Version]

Filename: U-Tron Lucas III 114

Manufacturer: U-Tron

Luminaire: Lucas III 114

Lamp: Lucas III 114

Lamp Cat: Street Lights

Lamp Output: 1 lamp(s), rated Lumens/lamp: 9918

Max Candela: 2,279.9 at Horizontal: 90°, Vertical: 5°

Input Wattage: 135

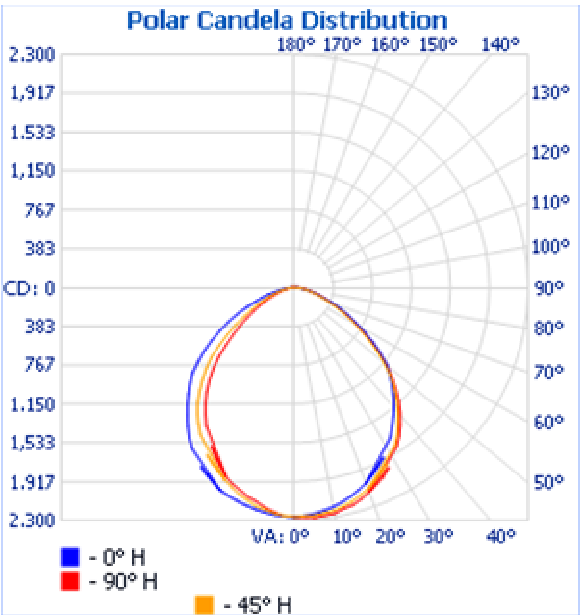
Luminous Opening: Ellipse (L: -0.66m, W: -0.33m)

Test Date: 2009-09-28

Test Lab: U-Tron (Beijing) Electronics Co., Ltd.

Photometry : Type B

CIE Class: Direct



### Flood Summary

|              | Efficiency | Lumens  | Horizontal Spread | Vertical Spread |
|--------------|------------|---------|-------------------|-----------------|
| Field (10%): | 52.3%      | 5,191.8 | 142.4             | 149.8           |
| Beam (50%):  | 38.8%      | 3,853.1 | 95.6              | 105.1           |
| Total:       | 54%        | 5,357.6 |                   |                 |

### Lumens Per Zone

| Zone  | Lumens  | % Total | Zone    | Lumens | % Total |
|-------|---------|---------|---------|--------|---------|
| 0-10  | 213.3   | 4.0%    | 90-100  | 0      | 0%      |
| 10-20 | 605.9   | 11.3%   | 100-110 | 0      | 0%      |
| 20-30 | 904.8   | 16.9%   | 110-120 | 0      | 0%      |
| 30-40 | 1,061.2 | 19.8%   | 120-130 | 0      | 0%      |
| 40-50 | 1,037.9 | 19.4%   | 130-140 | 0      | 0%      |
| 50-60 | 802.3   | 15.0%   | 140-150 | 0      | 0%      |
| 60-70 | 469.8   | 8.8%    | 150-160 | 0      | 0%      |
| 70-80 | 205.5   | 3.8%    | 160-170 | 0      | 0%      |
| 80-90 | 50.4    | 0.9%    | 170-180 | 0      | 0%      |

### Roadway Summary

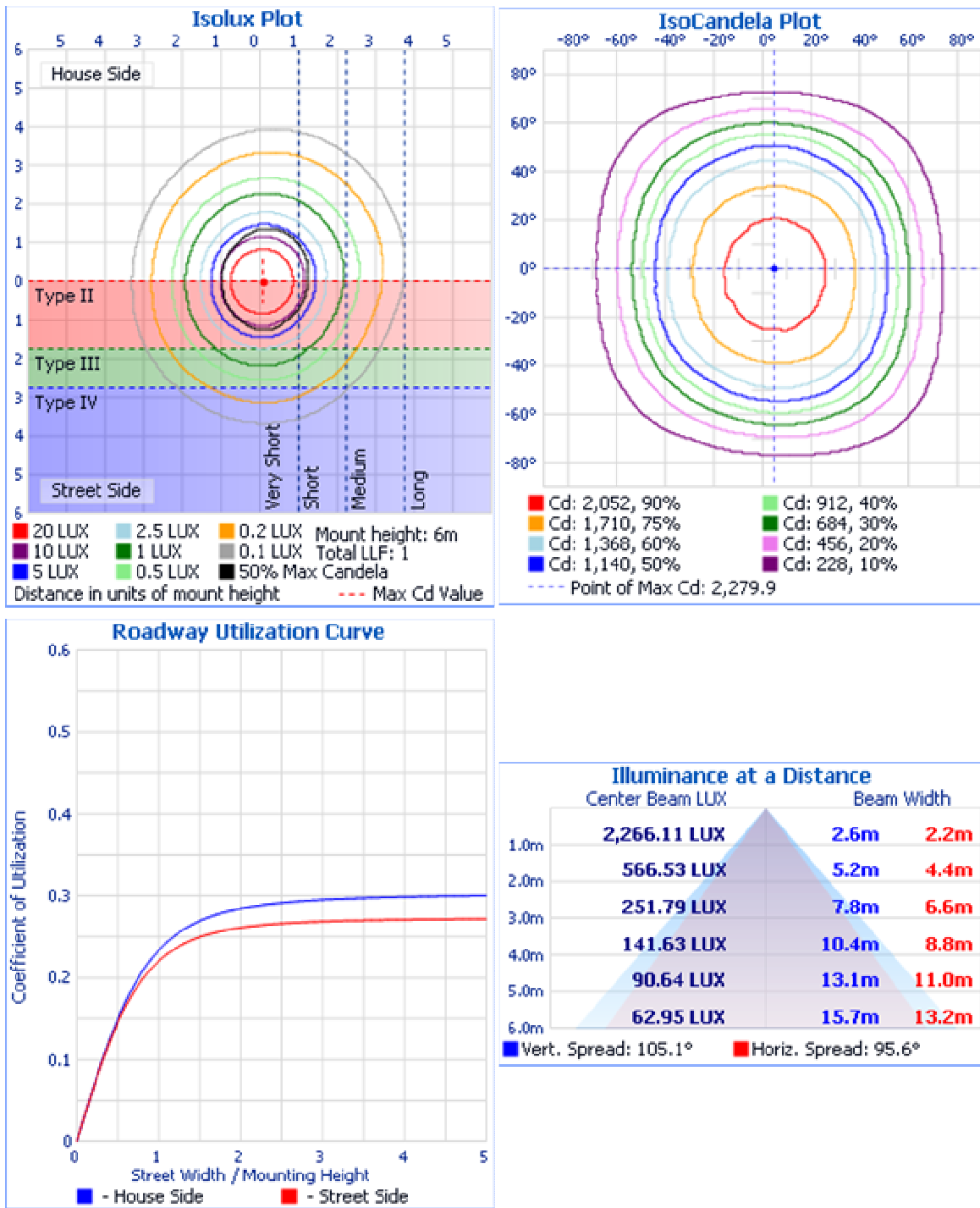
|                        |                     |
|------------------------|---------------------|
| Cutoff Classification: | CUTOFF              |
| Distribution:          | TYPE II, VERY SHORT |
| Max Cd, 90 Deg Vert:   | 30.4                |
| Max Cd, 80 to <90 Deg: | 156.9               |

|                       | Lumens  | % Lamp |
|-----------------------|---------|--------|
| Downward Street Side: | 2,577.6 | 26%    |
| Downward House Side:  | 2,783.1 | 28.1%  |
| Downward Total:       | 5,360.6 | 54%    |
| Upward Street Side:   | 0       | 0%     |
| Upward House Side:    | 0       | 0%     |
| Upward Total:         | 0       | 0%     |
| Total Lumens:         | 5,360.6 | 54%    |

### Zonal Lumen Summary

| Zone   | Lumens  | % Lamp | % Luminaire |
|--------|---------|--------|-------------|
| 0-30   | 1,724.1 | 17.4%  | 32.2%       |
| 0-40   | 2,785.3 | 28.1%  | 52.1%       |
| 0-60   | 4,625.5 | 46.6%  | 86.4%       |
| 60-90  | 725.7   | 7.3%   | 13.6%       |
| 0-90   | 5,351.1 | 54%    | 100%        |
| 90-180 | 0       | 0%     | 0%          |
| 0-180  | 5,351.1 | 54%    | 100%        |

Efficiency Total: 54%



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IESNA:LM-63-2002  
[TEST]  
[TESTLAB] U-Tron (Beijing) Electronics Co., Ltd.  
[TESTDATE] 2009-09-28  
[ISSUEDATE] 2009-09-30 11:16:58  
[LAMPPROPOSITION] 0,0  
[OTHER] EVERFINE G01900\_V2 SYSTEM  
[MANUFAC] U-Tron  
[LUMINAIRE] Lucas III 114  
[LAMPCAT] Street Lights  
[LAMP] Lucas III 114  
FILE: CANDELA MULTIPLIER: 1  
FILE: VERTICAL ANGLES: 91, HORIZONTAL ANGLES: 181  
FILE: COORDINATE SYSTEM: TYPE B  
FILE: UNIT OF MEASURE: METRIC

FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.