

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P256602

Luminaire Tested: **CST-10-3-D-U-T5R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P256602  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1808-894-1)  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-10-3-D-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
(10) 70 CRI, 4000K LEDS AND TYPE V ROUND OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34074 lumens  
Efficiency: N/A  
Efficacy: 160.7 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B5 - U0 - G4

Input Watts (W): 212  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

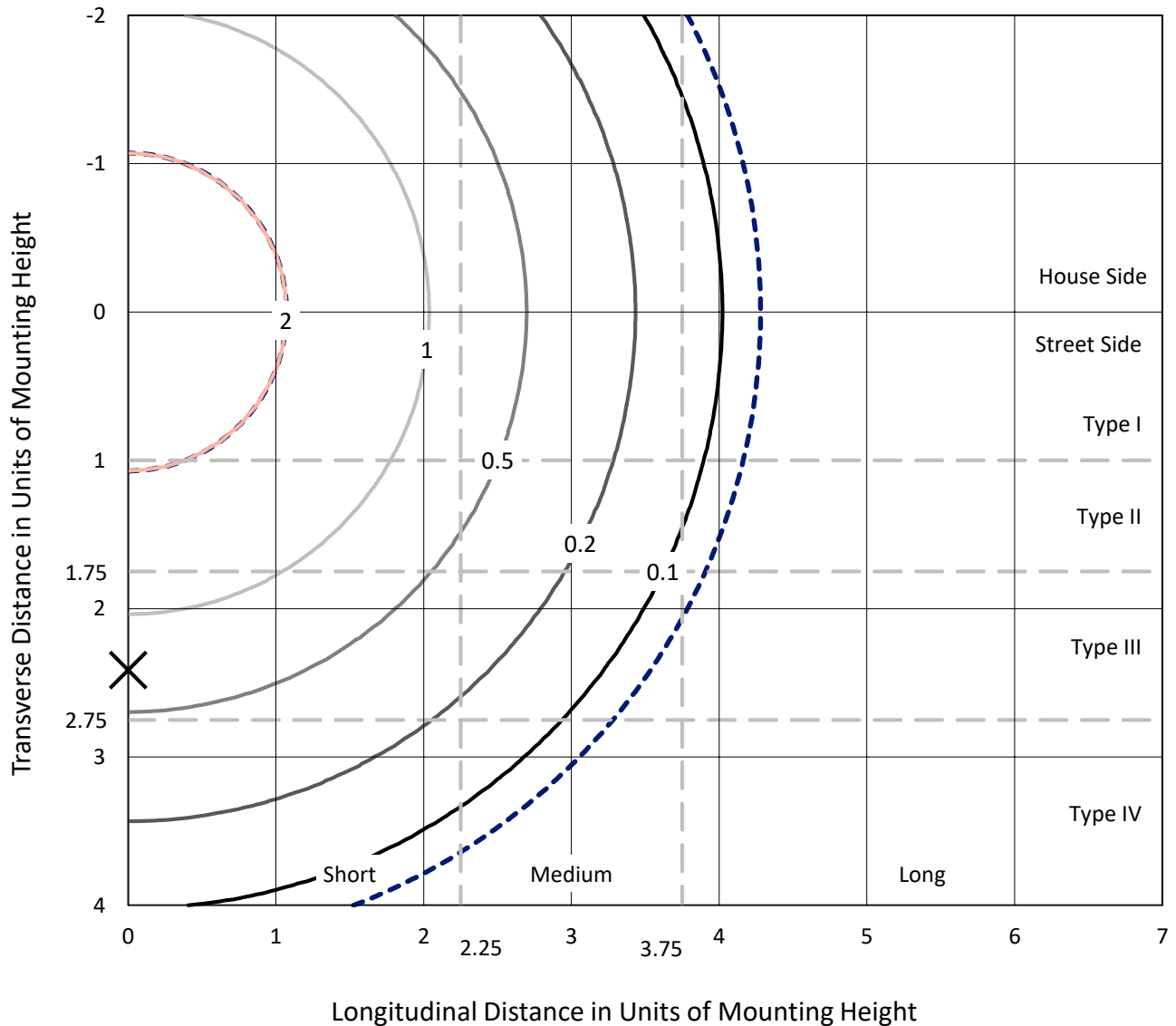


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

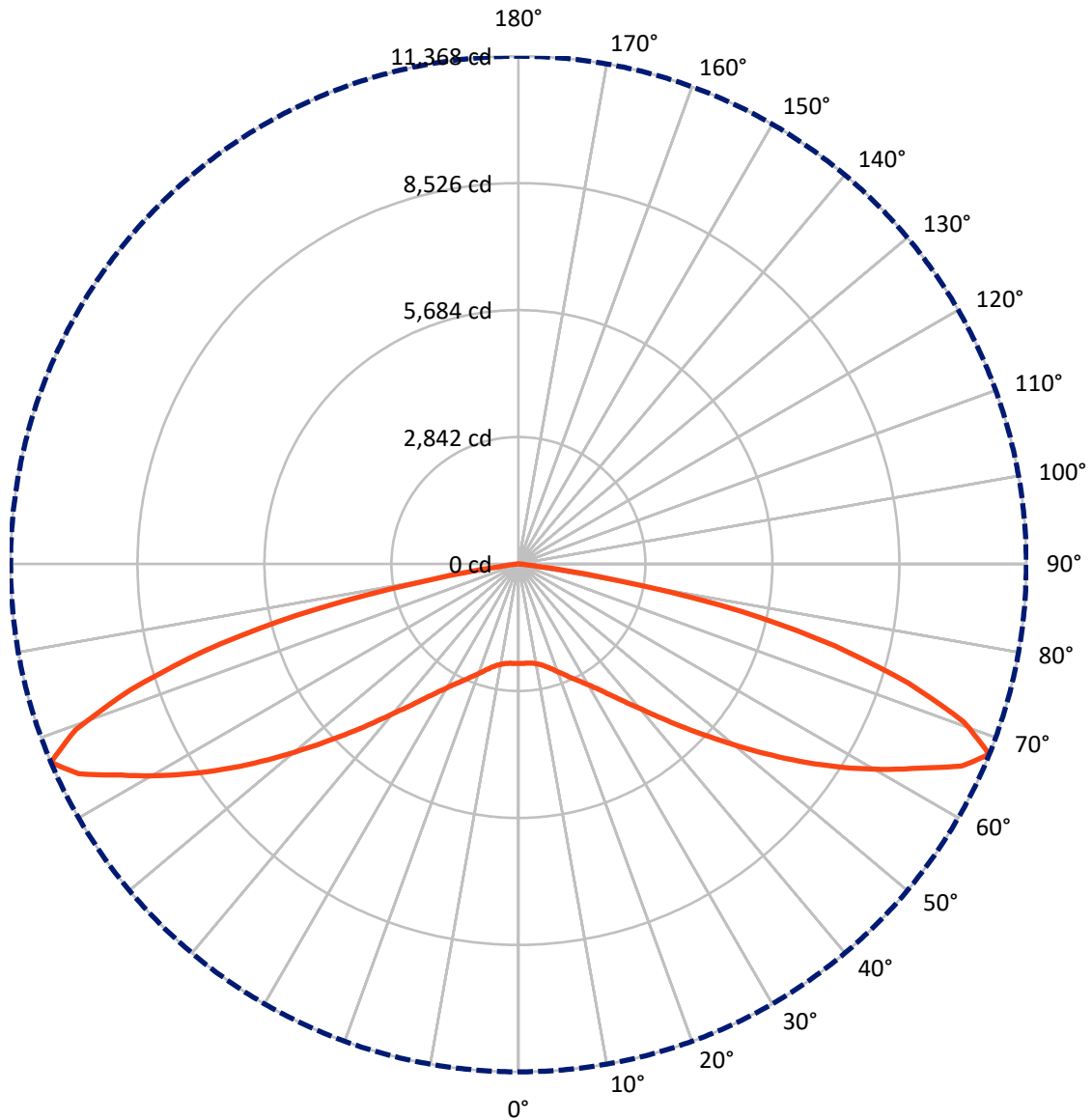


Based on 30 foot mounting height. Maximum calculated value = 2.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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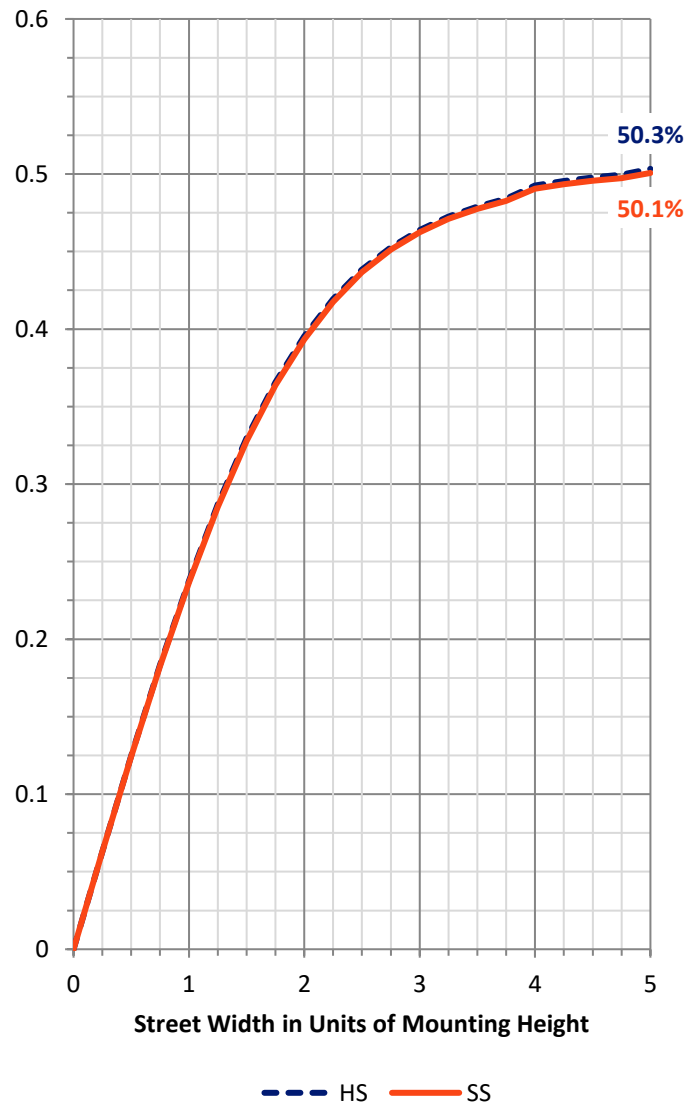
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 17037.0  | 0.0    | 17037.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 17037.0  | 0.0    | 17037.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 34074.0  | 0.0    | 34074.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 213.9   | 0.6       |
| 10°-20°   | 685.6   | 2.0       |
| 20°-30°   | 1326.4  | 3.9       |
| 30°-40°   | 2313.8  | 6.8       |
| 40°-50°   | 4107.1  | 12.1      |
| 50°-60°   | 7073.8  | 20.8      |
| 60°-70°   | 10505.5 | 30.8      |
| 70°-80°   | 7372.3  | 21.6      |
| 80°-90°   | 475.6   | 1.4       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 34074.0 | 100.0     |
| 0°-180°   | 34074.0 | 100.0     |



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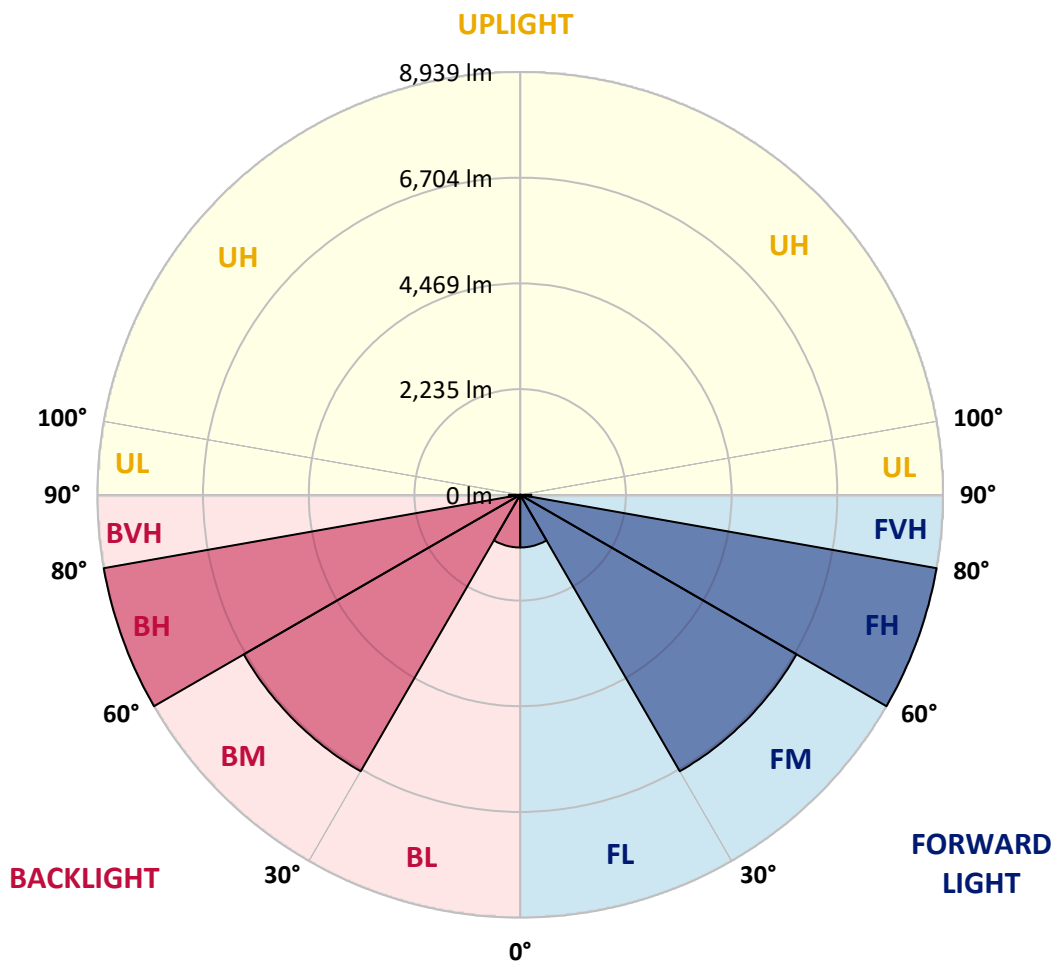
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1113.0 | 3.3       |                         |      |          |
| FM   | (30°-60°)   | 6747.4 | 19.8      |                         |      |          |
| FH   | (60°-80°)   | 8938.9 | 26.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 237.8  | 0.7       |                         |      | G3/500   |
| BL   | (0°-30°)    | 1113.0 | 3.3       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 6747.4 | 19.8      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 8938.9 | 26.2      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 237.8  | 0.7       |                         |      | G3/500   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 2222.6  |
| 2.5°  | 2225.6  |
| 5°    | 2227.7  |
| 7.5°  | 2239.8  |
| 10°   | 2270.3  |
| 12.5° | 2318.0  |
| 15°   | 2386.9  |
| 17.5° | 2478.2  |
| 20°   | 2584.7  |
| 22.5° | 2704.5  |
| 25°   | 2837.3  |
| 27.5° | 2984.4  |
| 30°   | 3154.9  |
| 32.5° | 3363.8  |
| 35°   | 3623.5  |
| 37.5° | 3934.9  |
| 40°   | 4289.0  |
| 42.5° | 4723.2  |
| 45°   | 5229.4  |
| 47.5° | 5790.3  |
| 50°   | 6419.3  |
| 52.5° | 7114.1  |
| 55°   | 7844.5  |
| 57.5° | 8591.1  |
| 60°   | 9334.7  |
| 62.5° | 10063.1 |
| 65°   | 10903.0 |
| 67.5° | 11367.6 |
| 70°   | 10574.3 |
| 72.5° | 9131.8  |
| 75°   | 7312.0  |
| 77.5° | 5112.7  |
| 80°   | 2299.7  |
| 82.5° | 419.0   |
| 85°   | 127.8   |
| 87.5° | 55.8    |
| 90°   | 0.0     |

(END OF REPORT)