

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: P510704

Luminaire Tested: **CST-CA8-230-722-U-T5R**

Issue Date: 4/6/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P510704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 4/6/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: CST-CA8-230-722-U-T5R  
Description: CELESTEON HIGH MAST LUMINAIRE  
Light Source: (8) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31265 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Circular (Dia: 2.08' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

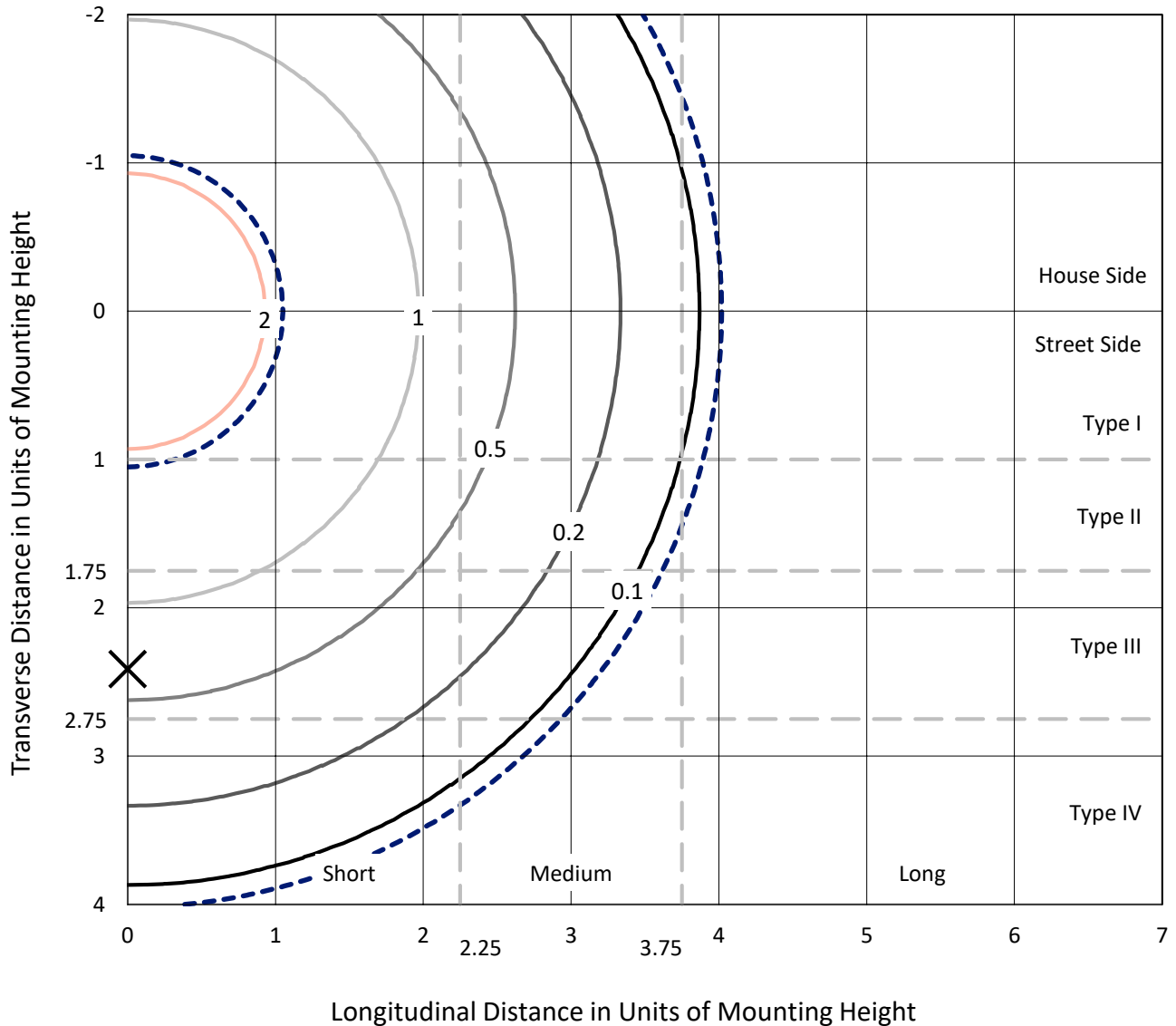
Input Watts (W): 228.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

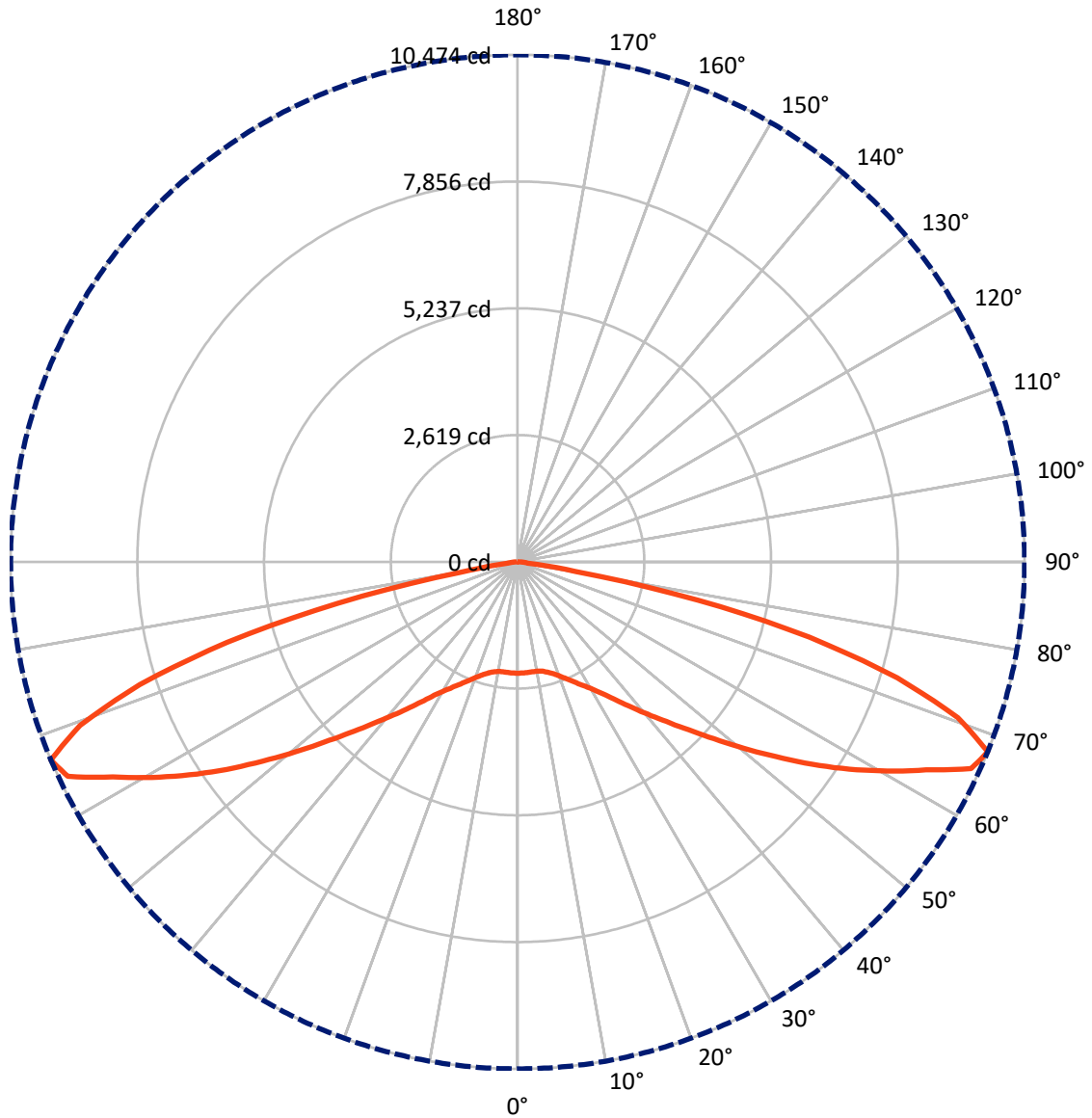
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.6 fc  
 Type V - Short - N/A

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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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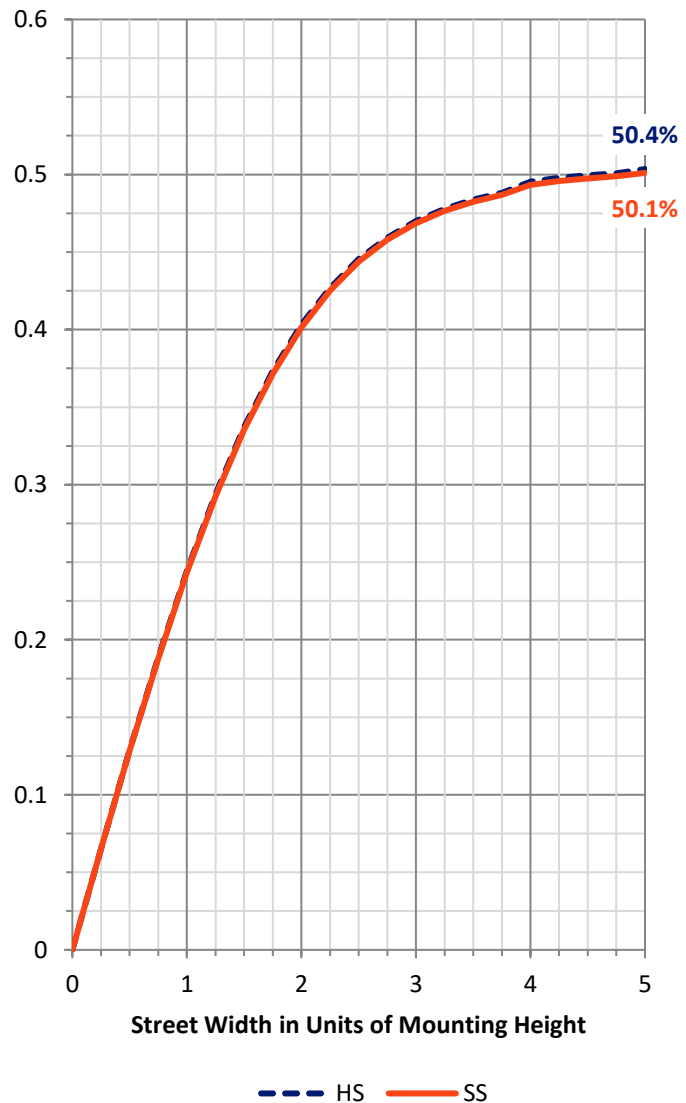
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15632.5  | 0.0    | 15632.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15632.5  | 0.0    | 15632.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31265.0  | 0.0    | 31265.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 219.1   | 0.7       |
| 10°-20°   | 678.9   | 2.2       |
| 20°-30°   | 1288.4  | 4.1       |
| 30°-40°   | 2237.8  | 7.2       |
| 40°-50°   | 3895.0  | 12.5      |
| 50°-60°   | 6654.1  | 21.3      |
| 60°-70°   | 9799.6  | 31.3      |
| 70°-80°   | 6229.4  | 19.9      |
| 80°-90°   | 262.8   | 0.8       |
| 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°    | 31265.0 | 100.0     |
| 0°-180°   | 31265.0 | 100.0     |

**Coefficient of Utilization**

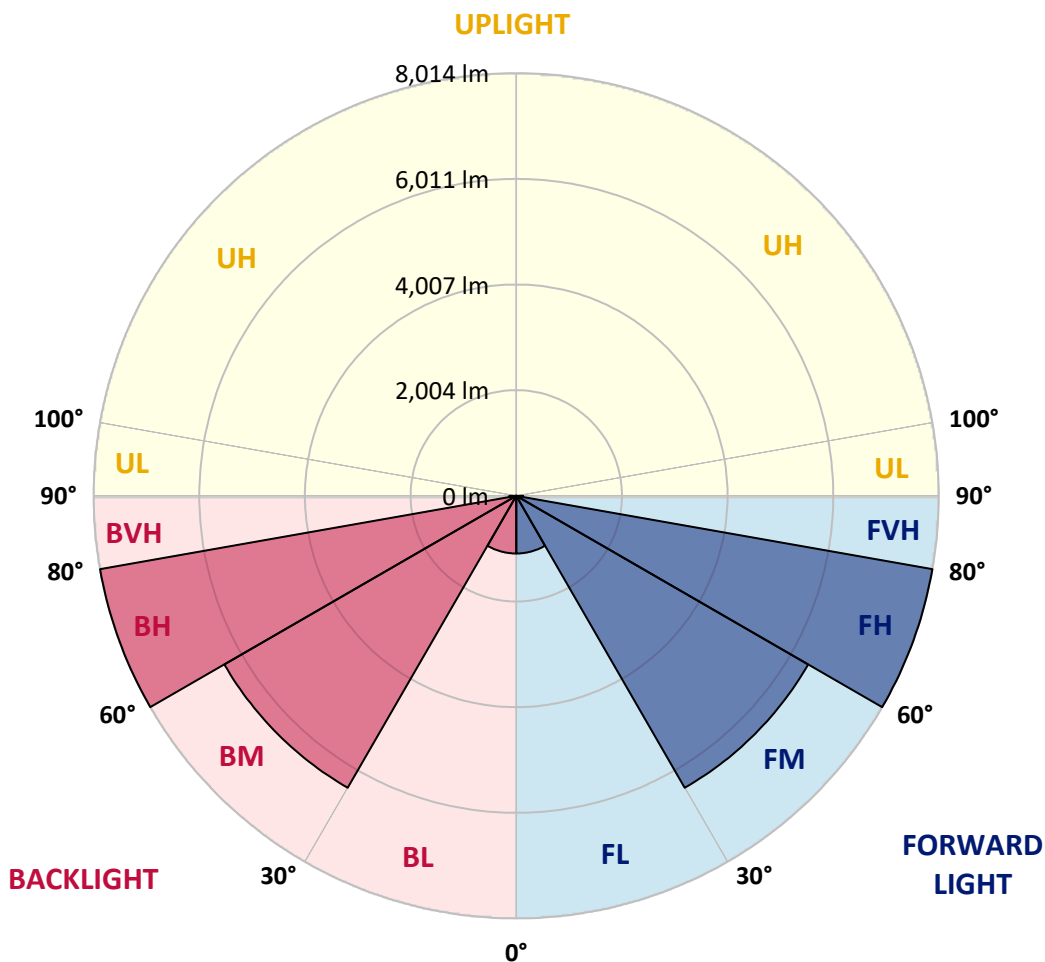


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1093.2 | 3.5       |                         |      |          |
| FM (30°-60°)   | 6393.4 | 20.4      |                         |      |          |
| FH (60°-80°)   | 8014.5 | 25.6      |                         |      | G4/12000 |
| FVH (80°-90°)  | 131.4  | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 1093.2 | 3.5       | B3/2500                 |      |          |
| BM (30°-60°)   | 6393.4 | 20.4      | B4/8500                 |      |          |
| BH (60°-80°)   | 8014.5 | 25.6      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 131.4  | 0.4       |                         |      | G2/225   |
| 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°    | 2299.7  |
| 2.5°  | 2300.3  |
| 5°    | 2295.8  |
| 7.5°  | 2292.0  |
| 10°   | 2295.8  |
| 12.5° | 2320.5  |
| 15°   | 2368.1  |
| 17.5° | 2434.6  |
| 20°   | 2525.0  |
| 22.5° | 2631.7  |
| 25°   | 2757.4  |
| 27.5° | 2893.7  |
| 30°   | 3054.0  |
| 32.5° | 3250.9  |
| 35°   | 3509.5  |
| 37.5° | 3807.1  |
| 40°   | 4137.9  |
| 42.5° | 4509.7  |
| 45°   | 4950.8  |
| 47.5° | 5459.7  |
| 50°   | 6049.0  |
| 52.5° | 6685.5  |
| 55°   | 7383.8  |
| 57.5° | 8081.2  |
| 60°   | 8774.7  |
| 62.5° | 9470.3  |
| 65°   | 10298.3 |
| 67.5° | 10474.2 |
| 70°   | 9649.8  |
| 72.5° | 8207.6  |
| 75°   | 6231.5  |
| 77.5° | 3809.7  |
| 80°   | 1209.2  |
| 82.5° | 205.3   |
| 85°   | 116.0   |
| 87.5° | 42.0    |
| 90°   | 0.0     |

(END OF REPORT)