

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: P368579

Luminaire Tested: **PMM-SA4D-727-U-5MQ**

Issue Date: 12/2/2019

**Test Information**

Test Method: LM-79-08  
Report Number: P368579  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 12/2/2019  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: PMM-SA4D-727-U-5MQ  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23697 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

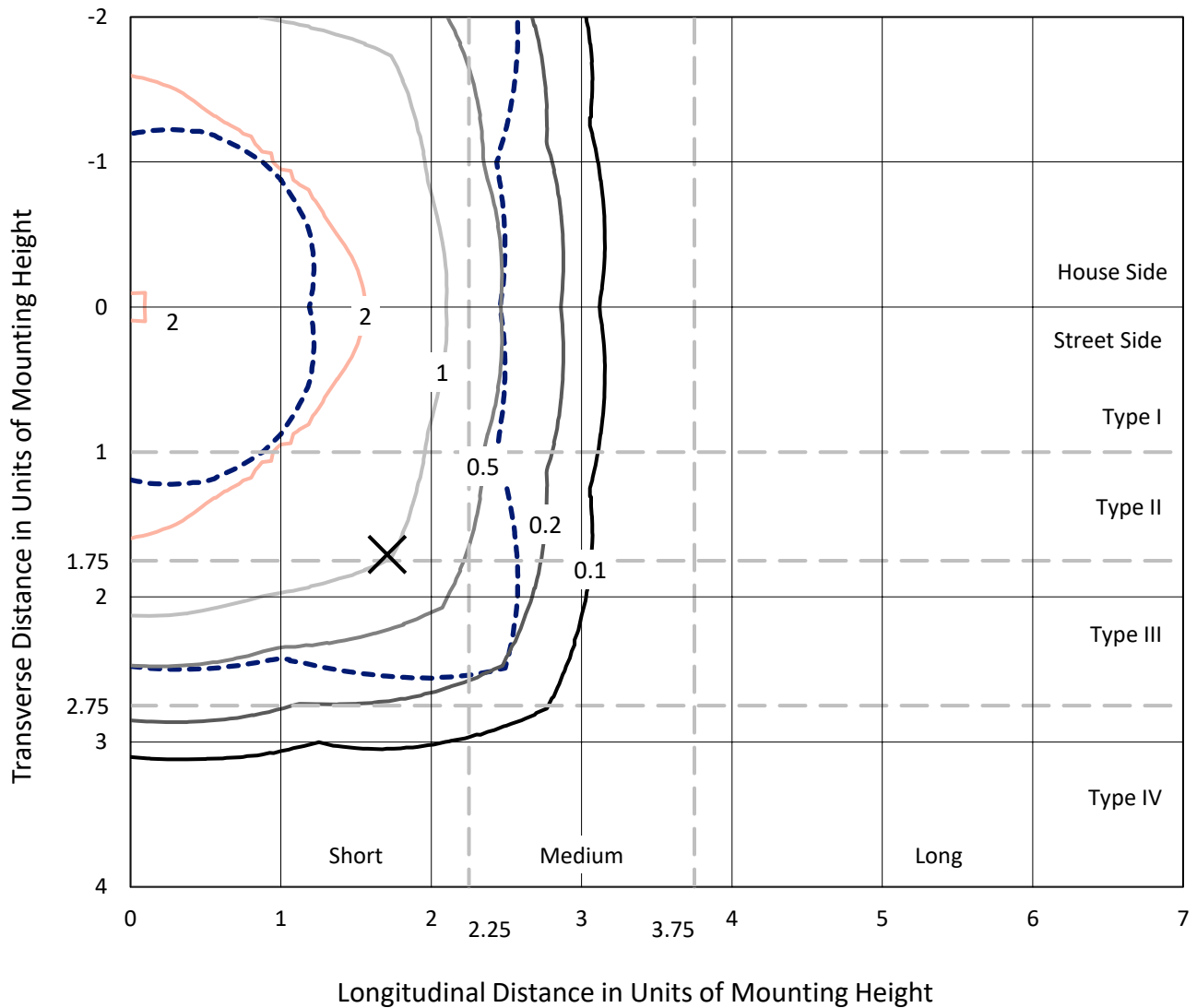
Input Watts (W): 259  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

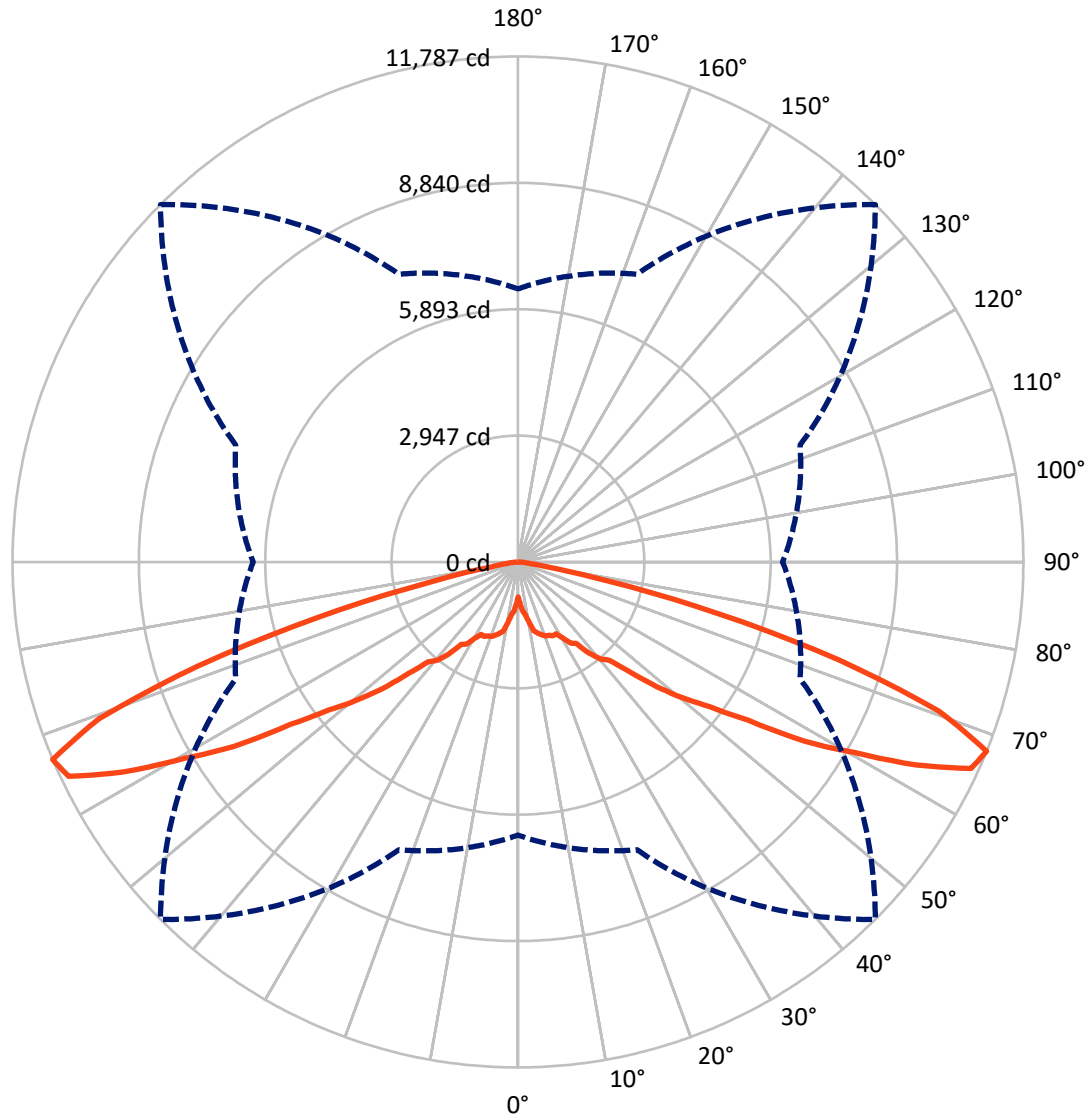
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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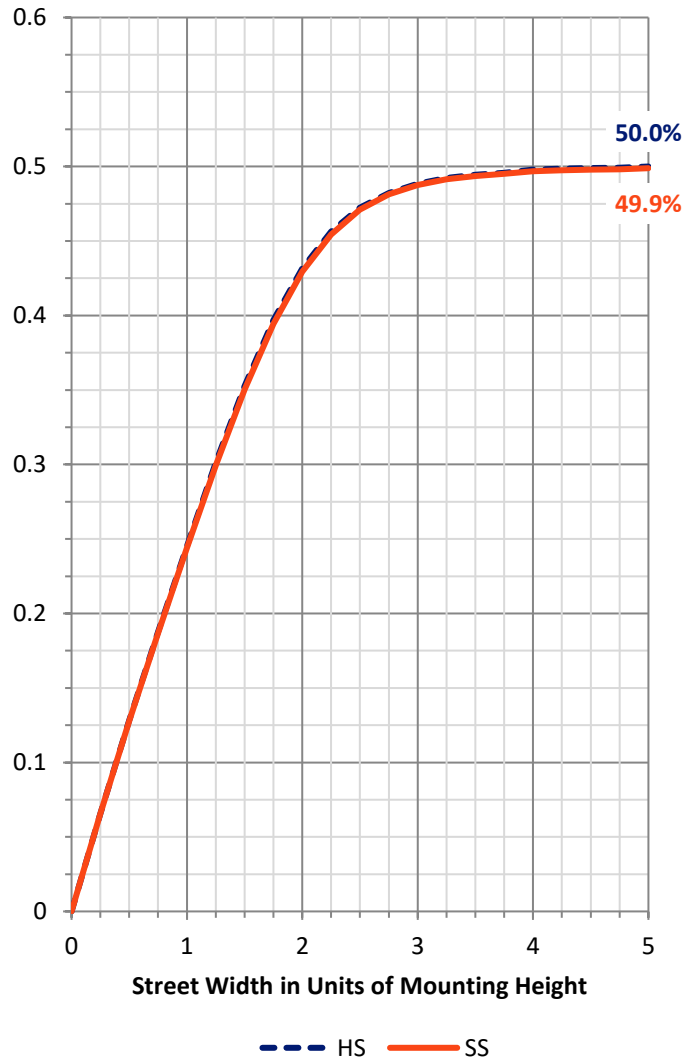
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11848.5  | 0.0    | 11848.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11848.5  | 0.0    | 11848.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 23697.0  | 0.0    | 23697.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 121.1   | 0.5       |
| 10°-20°   | 478.8   | 2.0       |
| 20°-30°   | 913.5   | 3.9       |
| 30°-40°   | 1670.2  | 7.0       |
| 40°-50°   | 3238.5  | 13.7      |
| 50°-60°   | 6184.4  | 26.1      |
| 60°-70°   | 8355.7  | 35.3      |
| 70°-80°   | 2595.0  | 11.0      |
| 80°-90°   | 139.8   | 0.6       |
| 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°    | 23697.0 | 100.0     |
| 0°-180°   | 23697.0 | 100.0     |

**Coefficient of Utilization**



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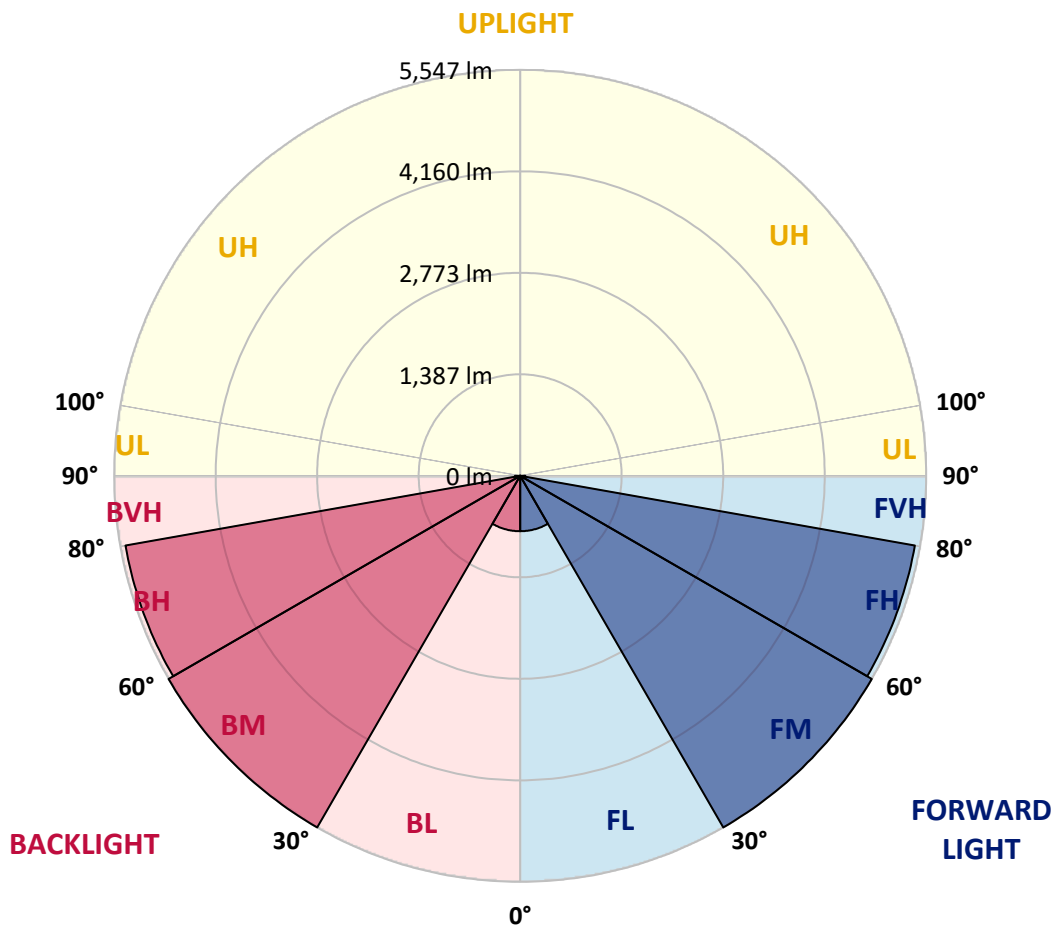
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 756.7  | 3.2       |                         |      |         |
| FM (30°-60°)   | 5546.5 | 23.4      |                         |      |         |
| FH (60°-80°)   | 5475.4 | 23.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 69.9   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 756.7  | 3.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 5546.5 | 23.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 5475.4 | 23.1      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 69.9   | 0.3       |                         |      | G1/100  |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 22.5°  | 45°     | 67.5°  | 90°    |
|-------|--------|--------|---------|--------|--------|
| 0°    | 812.0  | 812.0  | 812.0   | 812.0  | 812.0  |
| 2.5°  | 999.7  | 935.6  | 964.9   | 935.6  | 999.7  |
| 5°    | 1270.7 | 1203.9 | 1145.3  | 1187.4 | 1274.4 |
| 7.5°  | 1460.2 | 1360.4 | 1236.8  | 1349.4 | 1452.0 |
| 10°   | 1492.2 | 1436.4 | 1430.9  | 1430.0 | 1488.6 |
| 12.5° | 1612.2 | 1574.6 | 1649.7  | 1578.3 | 1615.8 |
| 15°   | 1705.6 | 1684.5 | 1718.4  | 1711.0 | 1709.2 |
| 17.5° | 1850.2 | 1707.4 | 1784.3  | 1699.1 | 1845.6 |
| 20°   | 1914.3 | 1712.0 | 1841.0  | 1701.9 | 1913.4 |
| 22.5° | 1993.0 | 1820.0 | 1858.4  | 1824.6 | 1985.7 |
| 25°   | 2037.9 | 1889.6 | 1903.3  | 1891.4 | 2038.8 |
| 27.5° | 2221.9 | 2043.4 | 1896.9  | 2068.1 | 2255.8 |
| 30°   | 2362.0 | 2143.2 | 2047.0  | 2145.9 | 2379.4 |
| 32.5° | 2564.3 | 2292.4 | 2254.8  | 2329.0 | 2596.3 |
| 35°   | 2815.1 | 2543.2 | 2332.7  | 2544.1 | 2868.2 |
| 37.5° | 3306.7 | 2771.2 | 2697.0  | 2851.7 | 3343.4 |
| 40°   | 3653.7 | 3131.0 | 2972.6  | 3188.6 | 3713.2 |
| 42.5° | 4186.5 | 3534.7 | 3132.8  | 3564.0 | 4278.1 |
| 45°   | 4682.7 | 4024.5 | 3643.6  | 4058.4 | 4749.6 |
| 47.5° | 5207.3 | 4474.0 | 4331.2  | 4516.1 | 5256.7 |
| 50°   | 5827.1 | 5082.8 | 4983.0  | 5130.4 | 5848.1 |
| 52.5° | 6558.6 | 5897.6 | 5602.8  | 5925.0 | 6565.9 |
| 55°   | 7427.4 | 6581.4 | 6515.5  | 6656.5 | 7438.3 |
| 57.5° | 8276.9 | 7467.6 | 7890.6  | 7475.9 | 8129.5 |
| 60°   | 8883.0 | 8284.2 | 9021.2  | 8073.7 | 8556.1 |
| 62.5° | 8921.4 | 8889.4 | 10429.2 | 8532.3 | 8464.6 |
| 65°   | 8090.2 | 8645.0 | 11608.4 | 8365.7 | 7683.7 |
| 67.5° | 6368.1 | 7262.6 | 11786.9 | 7121.6 | 6173.1 |
| 70°   | 4001.6 | 5028.8 | 10420.1 | 5221.9 | 4115.1 |
| 72.5° | 1845.6 | 2709.8 | 7846.6  | 3050.4 | 1950.9 |
| 75°   | 661.0  | 1037.2 | 4841.1  | 1114.1 | 691.2  |
| 77.5° | 375.3  | 420.2  | 2139.5  | 422.0  | 388.2  |
| 80°   | 241.7  | 261.8  | 618.0   | 276.5  | 235.3  |
| 82.5° | 137.3  | 183.1  | 271.0   | 194.1  | 126.3  |
| 85°   | 74.2   | 116.3  | 119.9   | 119.0  | 74.2   |
| 87.5° | 26.5   | 45.8   | 26.5    | 52.2   | 24.7   |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0    | 0.0    |

(END OF REPORT)