

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P368689

Luminaire Tested: **PMM-SA4D-830-U-5MQ**

Issue Date: 12/2/2019

Report Generated By 670245982

**Test Information**

Test Method: LM-79-08  
Report Number: P368689  
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-830-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**

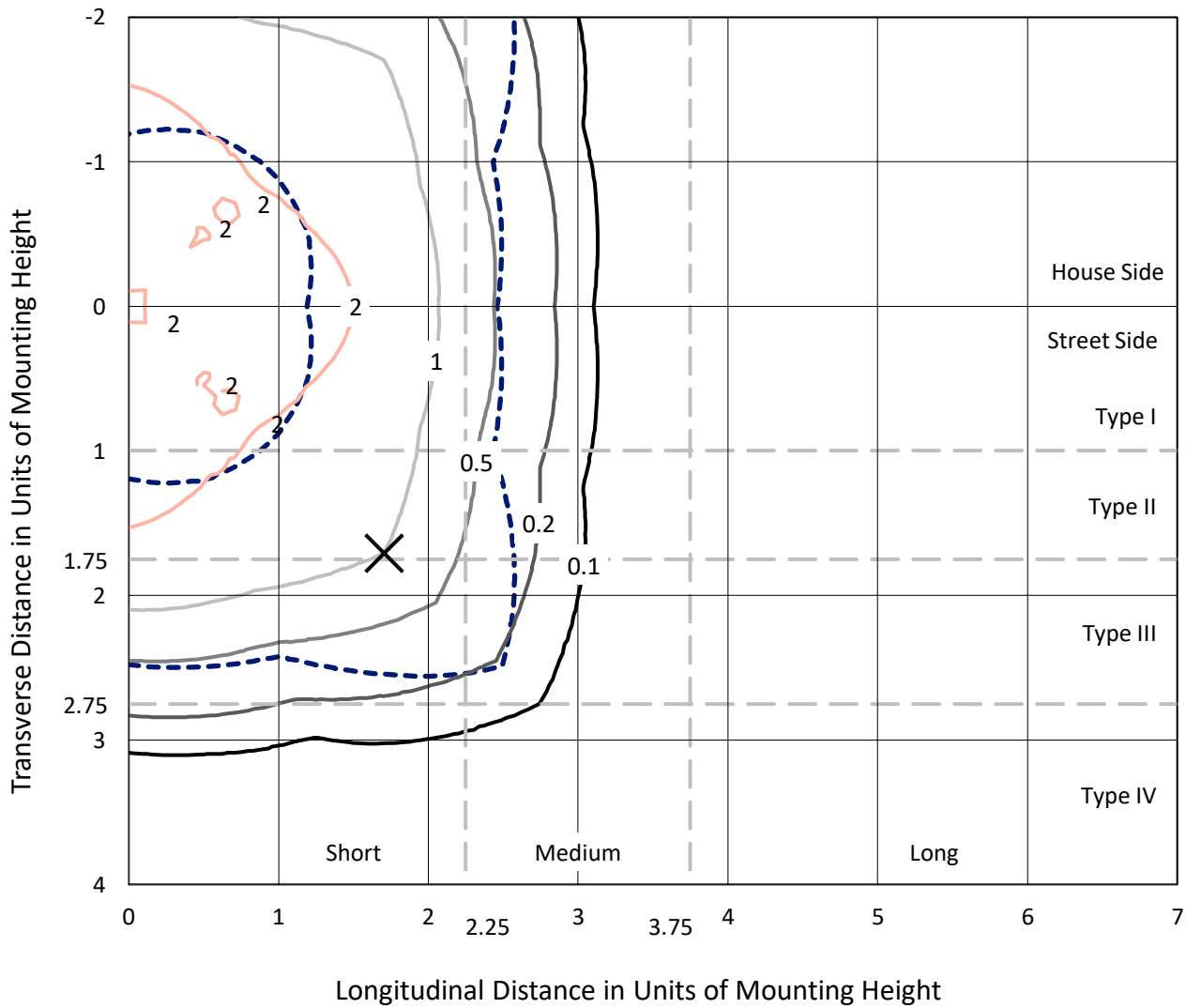
Lumens per Lamp: N/A  
Luminaire Lumens: 22517 lumens  
Efficiency: N/A  
Efficacy: 86.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 259  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

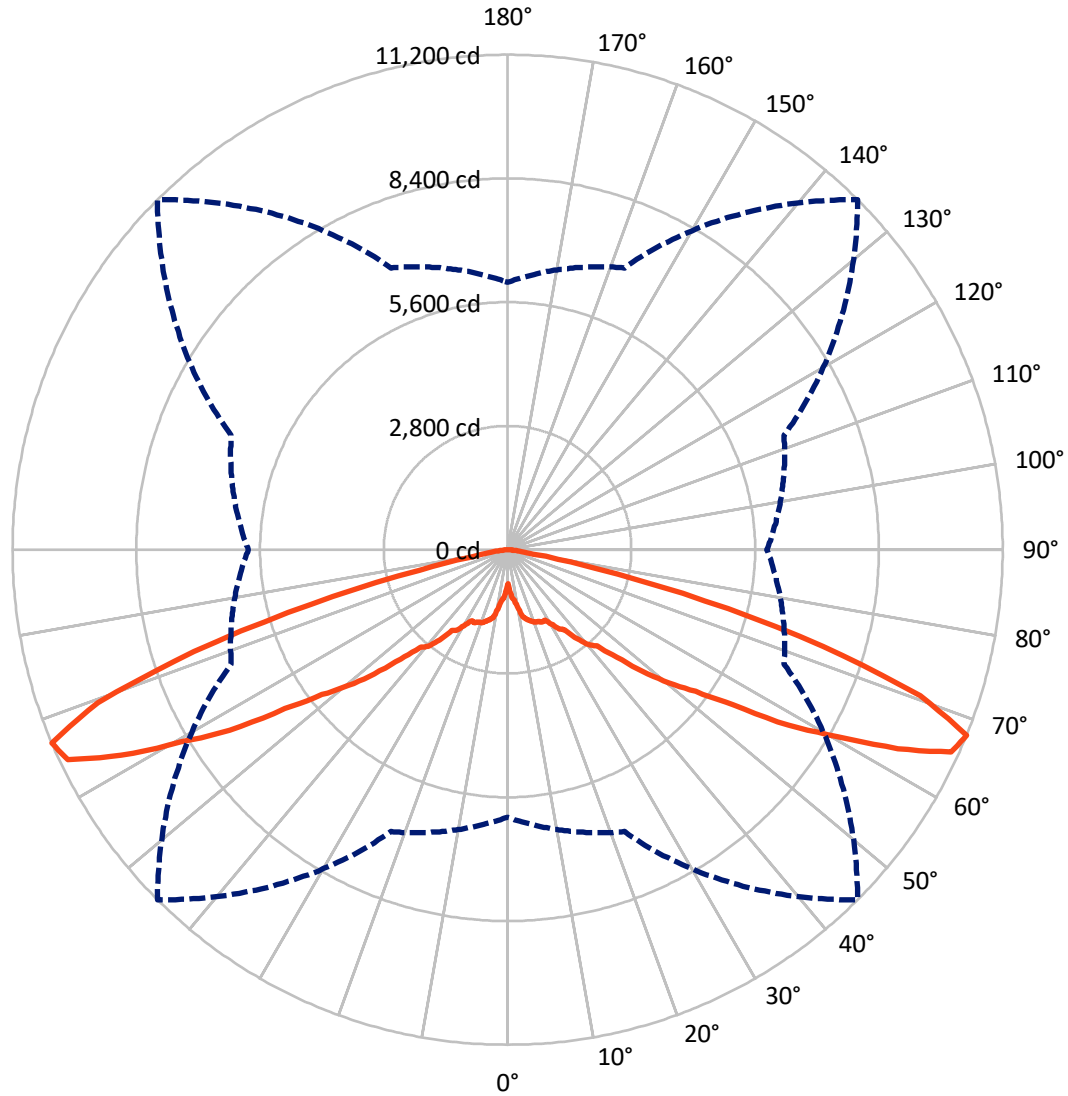
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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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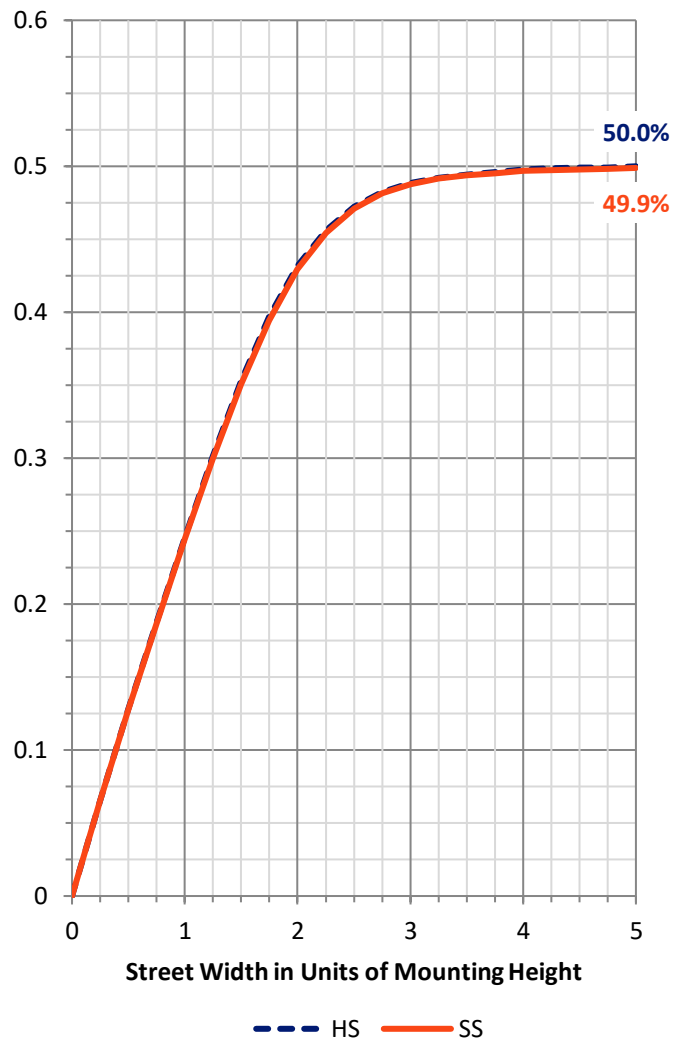
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11258.5  | 0.0    | 11258.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11258.5  | 0.0    | 11258.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22517.0  | 0.0    | 22517.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 115.1   | 0.5       |
| 10°-20°   | 455.0   | 2.0       |
| 20°-30°   | 868.0   | 3.9       |
| 30°-40°   | 1587.1  | 7.0       |
| 40°-50°   | 3077.2  | 13.7      |
| 50°-60°   | 5876.4  | 26.1      |
| 60°-70°   | 7939.6  | 35.3      |
| 70°-80°   | 2465.8  | 11.0      |
| 80°-90°   | 132.9   | 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°    | 22517.0 | 100.0     |
| 0°-180°   | 22517.0 | 100.0     |

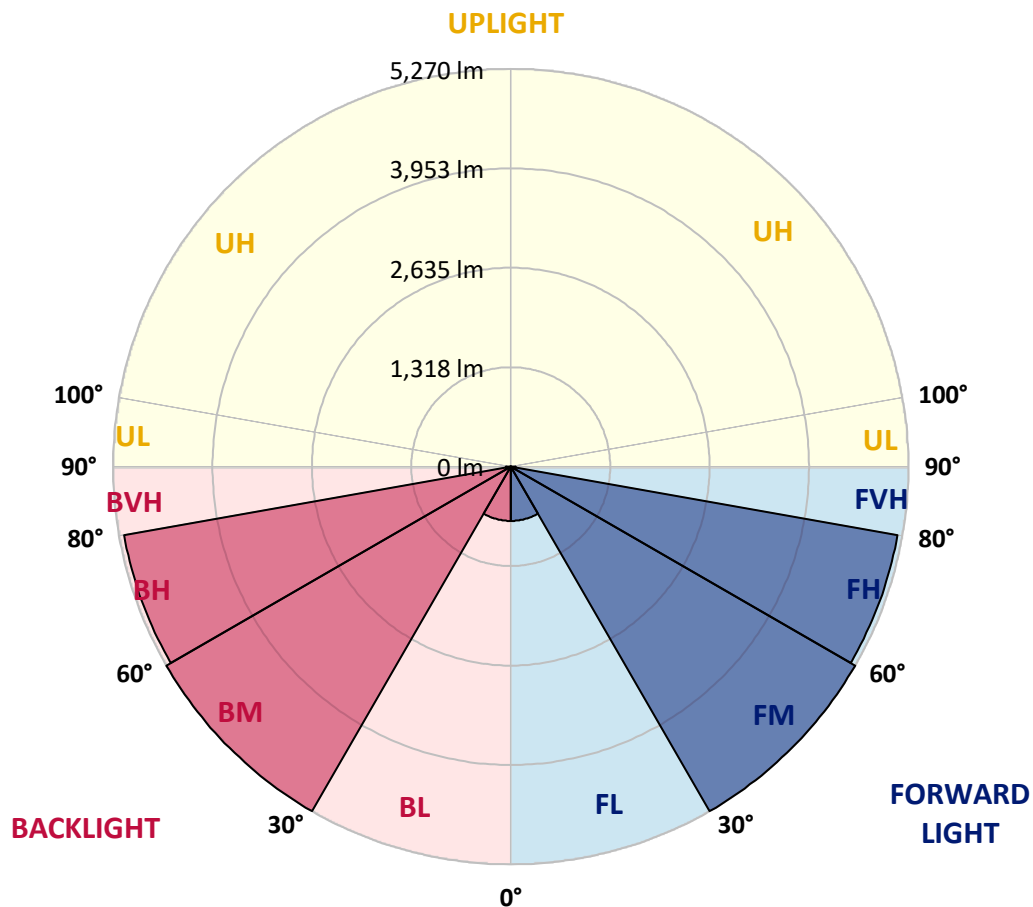


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 719.0  | 3.2       |                         |      |         |
| FM (30°-60°)   | 5270.3 | 23.4      |                         |      |         |
| FH (60°-80°)   | 5202.7 | 23.1      |                         |      | G3/7500 |
| FVH (80°-90°)  | 66.4   | 0.3       |                         |      | G1/100  |
| BL (0°-30°)    | 719.0  | 3.2       | B2/1000                 |      |         |
| BM (30°-60°)   | 5270.3 | 23.4      | B4/8500                 |      |         |
| BH (60°-80°)   | 5202.7 | 23.1      | B5                      |      | G3/7500 |
| BVH (80°-90°)  | 66.4   | 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°    | 771.6  | 771.6  | 771.6   | 771.6  | 771.6  |
| 2.5°  | 949.9  | 889.0  | 916.9   | 889.0  | 949.9  |
| 5°    | 1207.4 | 1143.9 | 1088.2  | 1128.3 | 1210.9 |
| 7.5°  | 1387.5 | 1292.7 | 1175.2  | 1282.2 | 1379.7 |
| 10°   | 1417.9 | 1364.9 | 1359.7  | 1358.8 | 1414.5 |
| 12.5° | 1531.9 | 1496.2 | 1567.6  | 1499.7 | 1535.4 |
| 15°   | 1620.6 | 1600.6 | 1632.8  | 1625.8 | 1624.1 |
| 17.5° | 1758.1 | 1622.4 | 1695.4  | 1614.5 | 1753.7 |
| 20°   | 1819.0 | 1626.7 | 1749.4  | 1617.1 | 1818.1 |
| 22.5° | 1893.8 | 1729.4 | 1765.9  | 1733.7 | 1886.8 |
| 25°   | 1936.4 | 1795.5 | 1808.5  | 1797.2 | 1937.3 |
| 27.5° | 2111.2 | 1941.6 | 1802.4  | 1965.1 | 2143.4 |
| 30°   | 2244.3 | 2036.4 | 1945.1  | 2039.0 | 2260.9 |
| 32.5° | 2436.6 | 2178.2 | 2142.6  | 2213.0 | 2467.0 |
| 35°   | 2674.9 | 2416.6 | 2216.5  | 2417.5 | 2725.4 |
| 37.5° | 3142.1 | 2633.2 | 2562.7  | 2709.7 | 3176.9 |
| 40°   | 3471.8 | 2975.1 | 2824.6  | 3029.9 | 3528.3 |
| 42.5° | 3978.1 | 3358.7 | 2976.8  | 3386.5 | 4065.0 |
| 45°   | 4449.5 | 3824.1 | 3462.2  | 3856.3 | 4513.0 |
| 47.5° | 4948.0 | 4251.2 | 4115.5  | 4291.2 | 4995.0 |
| 50°   | 5536.9 | 4829.7 | 4734.9  | 4874.9 | 5556.9 |
| 52.5° | 6232.0 | 5603.9 | 5323.8  | 5630.0 | 6238.9 |
| 55°   | 7057.5 | 6253.7 | 6191.1  | 6325.0 | 7067.9 |
| 57.5° | 7864.8 | 7095.8 | 7497.7  | 7103.6 | 7724.7 |
| 60°   | 8440.6 | 7871.7 | 8572.0  | 7671.7 | 8130.1 |
| 62.5° | 8477.2 | 8446.7 | 9909.9  | 8107.5 | 8043.1 |
| 65°   | 7687.3 | 8214.5 | 11030.3 | 7949.2 | 7301.1 |
| 67.5° | 6051.0 | 6900.9 | 11200.0 | 6767.0 | 5865.7 |
| 70°   | 3802.3 | 4778.4 | 9901.2  | 4961.9 | 3910.2 |
| 72.5° | 1753.7 | 2574.9 | 7455.9  | 2898.5 | 1853.8 |
| 75°   | 628.1  | 985.6  | 4600.0  | 1058.7 | 656.8  |
| 77.5° | 356.7  | 399.3  | 2033.0  | 401.0  | 368.8  |
| 80°   | 229.7  | 248.8  | 587.2   | 262.7  | 223.6  |
| 82.5° | 130.5  | 174.0  | 257.5   | 184.4  | 120.0  |
| 85°   | 70.5   | 110.5  | 114.0   | 113.1  | 70.5   |
| 87.5° | 25.2   | 43.5   | 25.2    | 49.6   | 23.5   |
| 90°   | 0.0    | 0.0    | 0.0     | 0.0    | 0.0    |

(END OF REPORT)