

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: P598037

Luminaire Tested: **PMM-SA2D-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598037
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-6)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2D-827-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10679 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

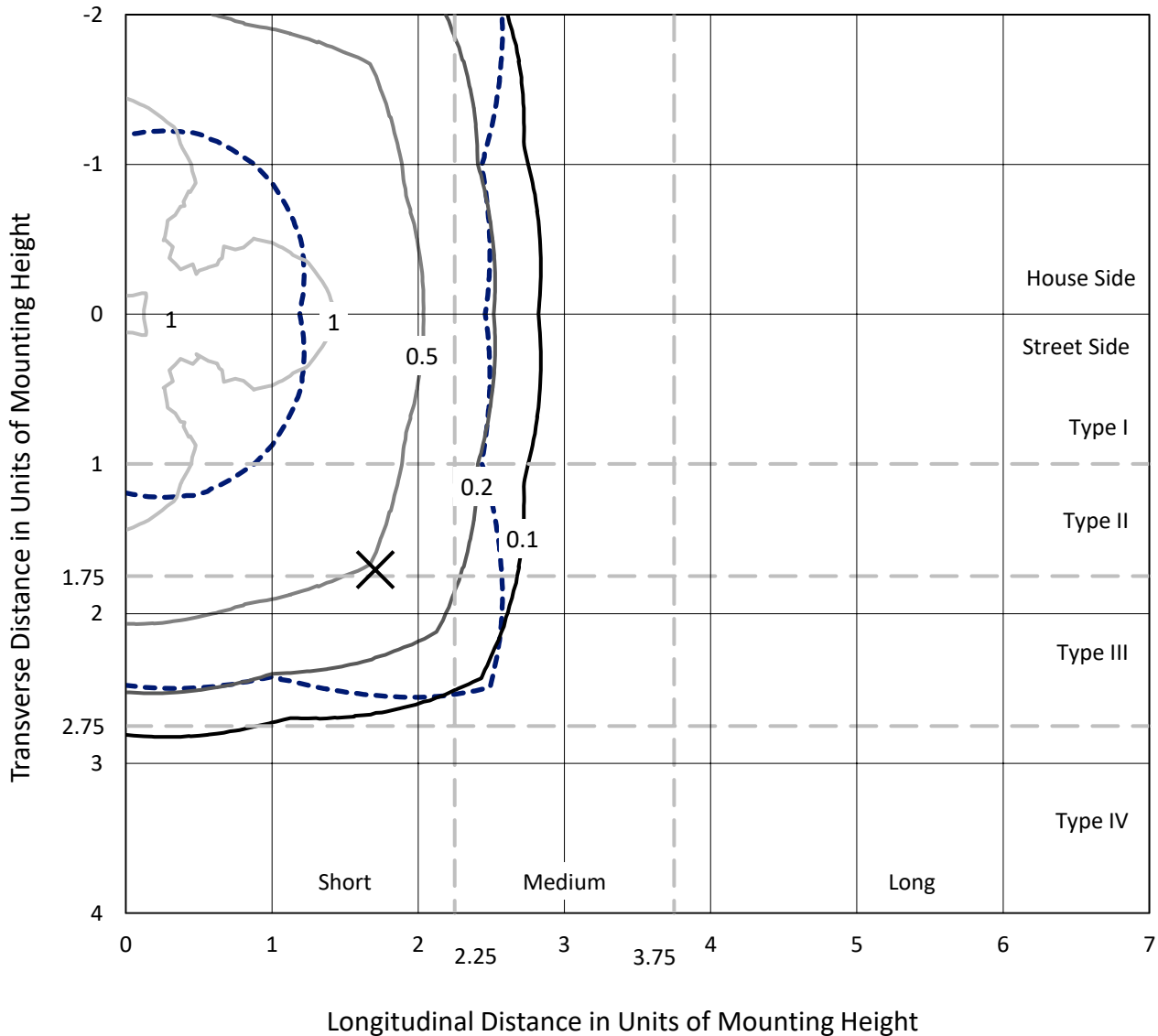
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

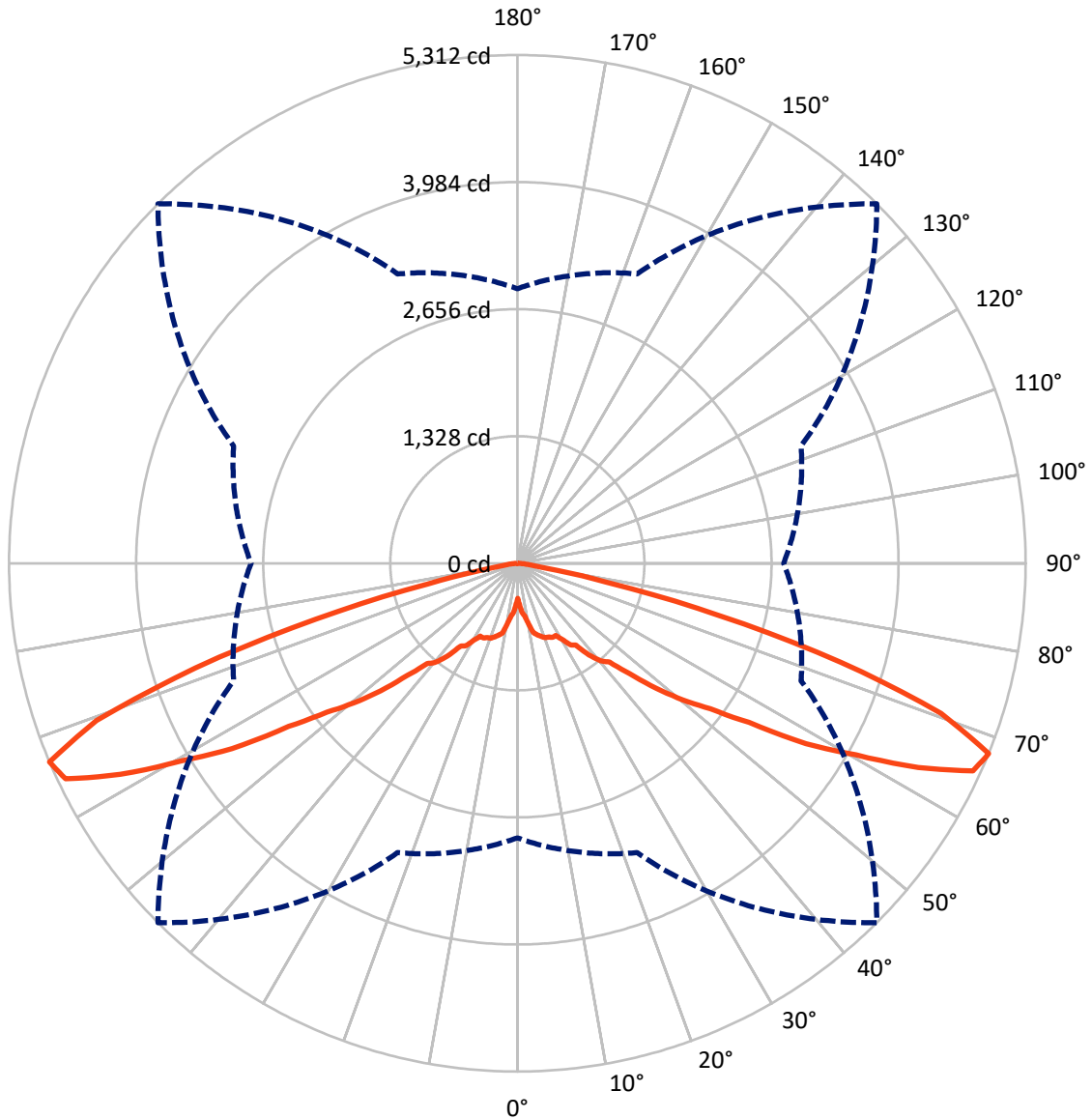
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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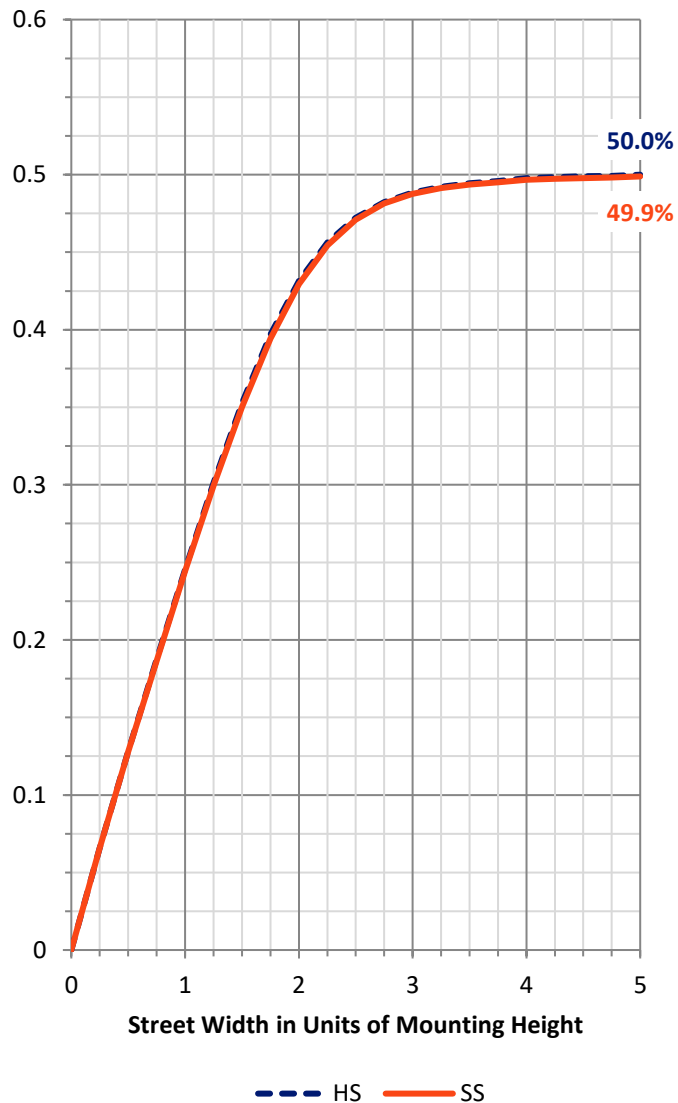
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5339.5 | 0.0 | 5339.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5339.5 | 0.0 | 5339.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10679.0 | 0.0 | 10679.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 54.6 | 0.5 |
| 10°-20° | 215.8 | 2.0 |
| 20°-30° | 411.7 | 3.9 |
| 30°-40° | 752.7 | 7.0 |
| 40°-50° | 1459.4 | 13.7 |
| 50°-60° | 2787.0 | 26.1 |
| 60°-70° | 3765.5 | 35.3 |
| 70°-80° | 1169.4 | 11.0 |
| 80°-90° | 63.0 | 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° | 10679.0 | 100.0 |
| 0°-180° | 10679.0 | 100.0 |

Coefficient of Utilization



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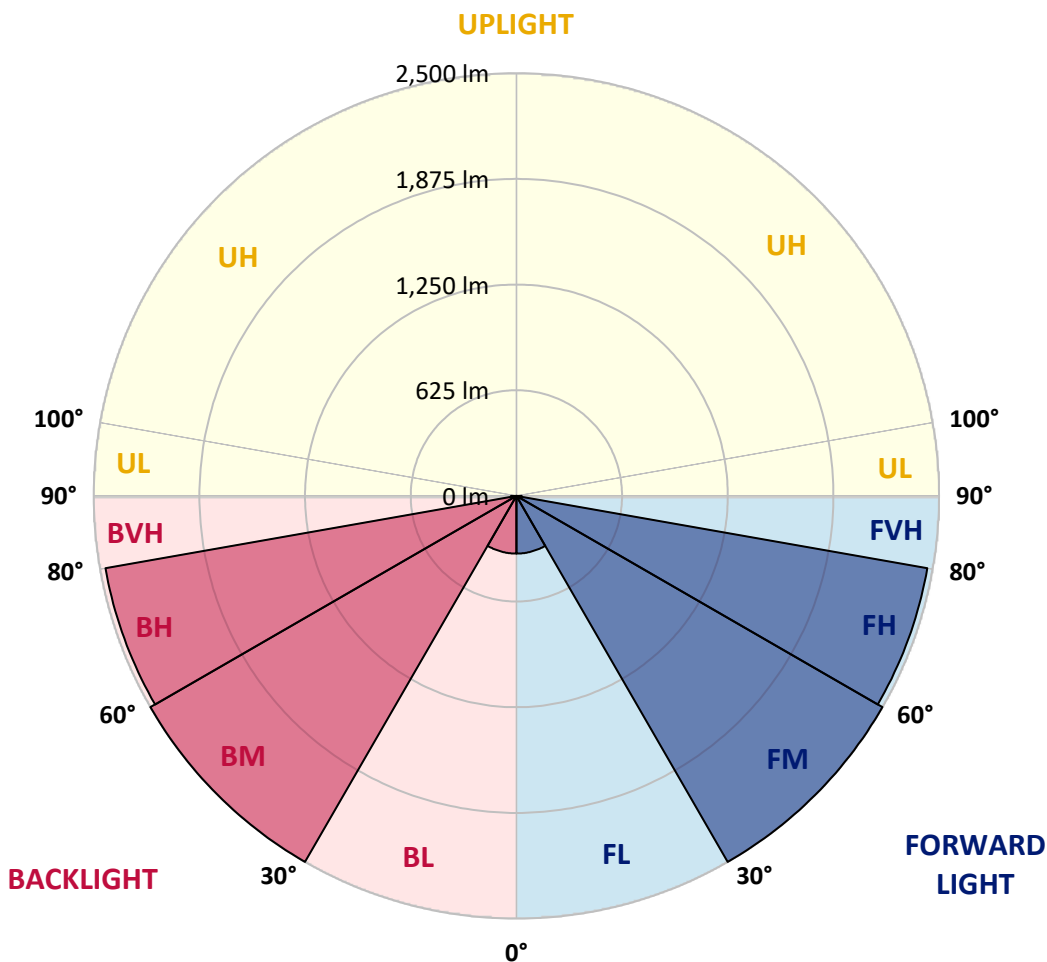
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 341.0 | 3.2 | | | |
| FM (30°-60°) | 2499.5 | 23.4 | | | |
| FH (60°-80°) | 2467.5 | 23.1 | | | G2/5000 |
| FVH (80°-90°) | 31.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 341.0 | 3.2 | B1/500 | | |
| BM (30°-60°) | 2499.5 | 23.4 | B2/2500 | | |
| BH (60°-80°) | 2467.5 | 23.1 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 31.5 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 365.9 | 365.9 | 365.9 | 365.9 | 365.9 |
| 2.5° | 450.5 | 421.6 | 434.8 | 421.6 | 450.5 |
| 5° | 572.6 | 542.5 | 516.1 | 535.1 | 574.3 |
| 7.5° | 658.0 | 613.1 | 557.4 | 608.1 | 654.3 |
| 10° | 672.5 | 647.3 | 644.8 | 644.4 | 670.8 |
| 12.5° | 726.5 | 709.6 | 743.4 | 711.3 | 728.2 |
| 15° | 768.6 | 759.1 | 774.4 | 771.1 | 770.3 |
| 17.5° | 833.8 | 769.4 | 804.1 | 765.7 | 831.7 |
| 20° | 862.7 | 771.5 | 829.7 | 767.0 | 862.3 |
| 22.5° | 898.1 | 820.2 | 837.5 | 822.2 | 894.8 |
| 25° | 918.4 | 851.5 | 857.7 | 852.4 | 918.8 |
| 27.5° | 1001.3 | 920.8 | 854.8 | 932.0 | 1016.6 |
| 30° | 1064.4 | 965.8 | 922.5 | 967.0 | 1072.3 |
| 32.5° | 1155.6 | 1033.1 | 1016.1 | 1049.6 | 1170.0 |
| 35° | 1268.6 | 1146.1 | 1051.2 | 1146.5 | 1292.6 |
| 37.5° | 1490.2 | 1248.8 | 1215.4 | 1285.1 | 1506.7 |
| 40° | 1646.5 | 1411.0 | 1339.6 | 1437.0 | 1673.4 |
| 42.5° | 1886.6 | 1592.9 | 1411.8 | 1606.1 | 1927.9 |
| 45° | 2110.3 | 1813.6 | 1642.0 | 1828.9 | 2140.4 |
| 47.5° | 2346.7 | 2016.2 | 1951.8 | 2035.2 | 2368.9 |
| 50° | 2626.0 | 2290.5 | 2245.6 | 2312.0 | 2635.4 |
| 52.5° | 2955.6 | 2657.7 | 2524.9 | 2670.1 | 2958.9 |
| 55° | 3347.1 | 2965.9 | 2936.2 | 2999.7 | 3352.1 |
| 57.5° | 3730.0 | 3365.3 | 3555.9 | 3369.0 | 3663.6 |
| 60° | 4003.1 | 3733.3 | 4065.4 | 3638.4 | 3855.8 |
| 62.5° | 4020.4 | 4006.0 | 4699.9 | 3845.1 | 3814.6 |
| 65° | 3645.8 | 3895.8 | 5231.3 | 3770.0 | 3462.6 |
| 67.5° | 2869.8 | 3272.9 | 5311.7 | 3209.3 | 2781.9 |
| 70° | 1803.3 | 2266.2 | 4695.8 | 2353.3 | 1854.5 |
| 72.5° | 831.7 | 1221.2 | 3536.1 | 1374.7 | 879.2 |
| 75° | 297.9 | 467.4 | 2181.6 | 502.1 | 311.5 |
| 77.5° | 169.2 | 189.4 | 964.2 | 190.2 | 174.9 |
| 80° | 108.9 | 118.0 | 278.5 | 124.6 | 106.0 |
| 82.5° | 61.9 | 82.5 | 122.1 | 87.5 | 56.9 |
| 85° | 33.4 | 52.4 | 54.0 | 53.6 | 33.4 |
| 87.5° | 12.0 | 20.6 | 12.0 | 23.5 | 11.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)