

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: P597949

Luminaire Tested: **PMM-SA1D-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597949
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-SA1D-827-U-5MQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5430 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 67
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

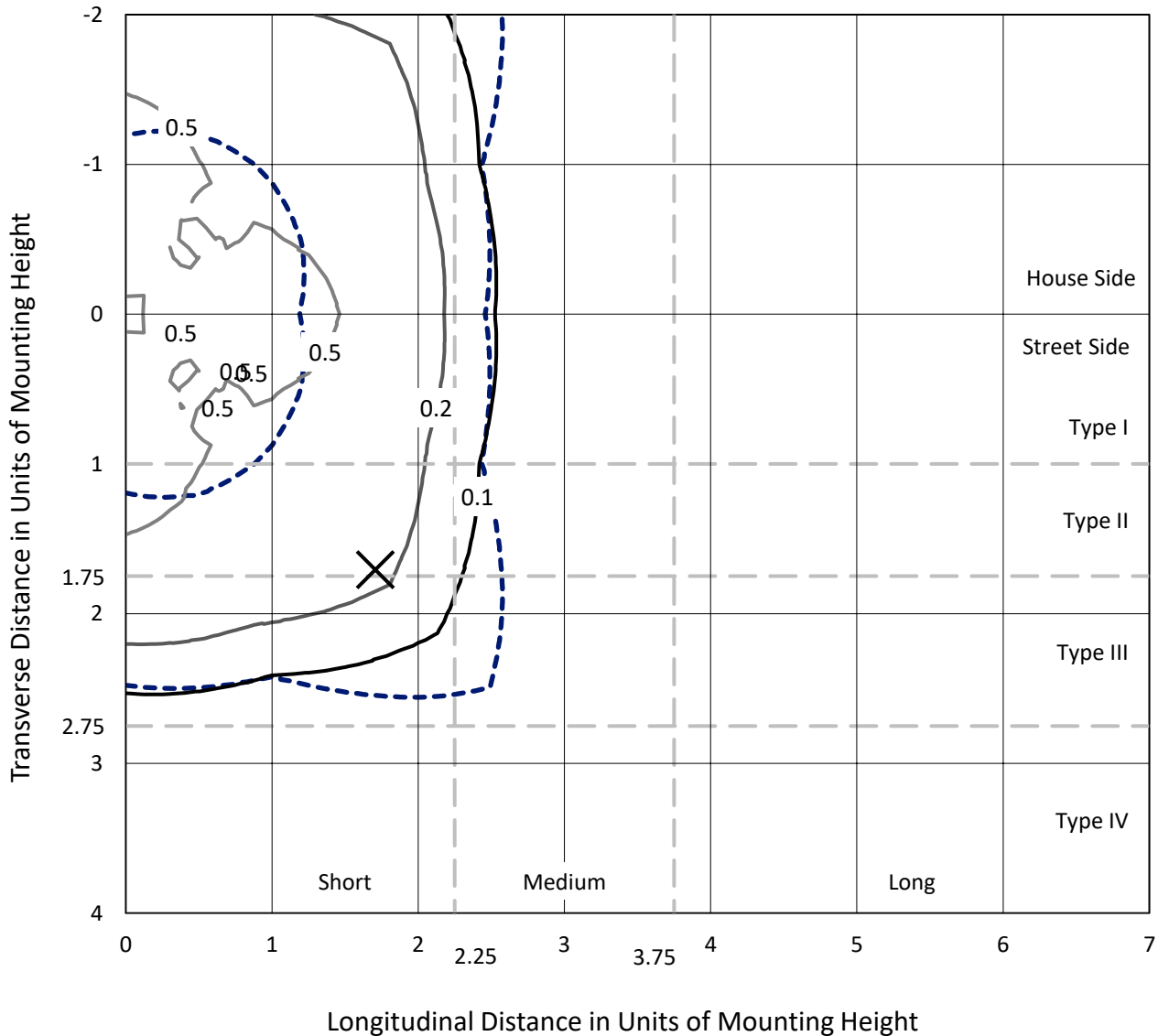


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Iso-Footcandle Lines of Horizontal Illumination

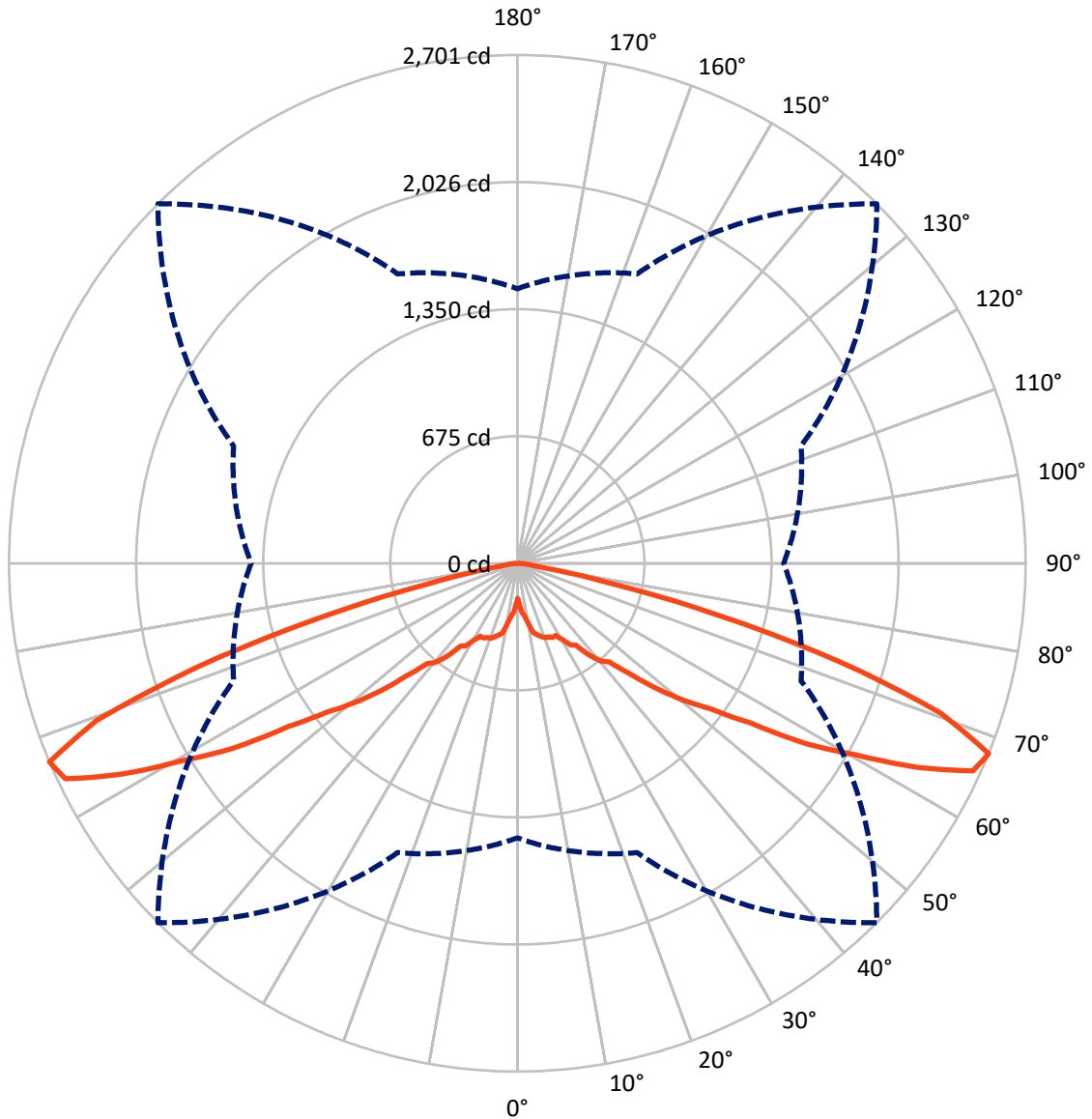
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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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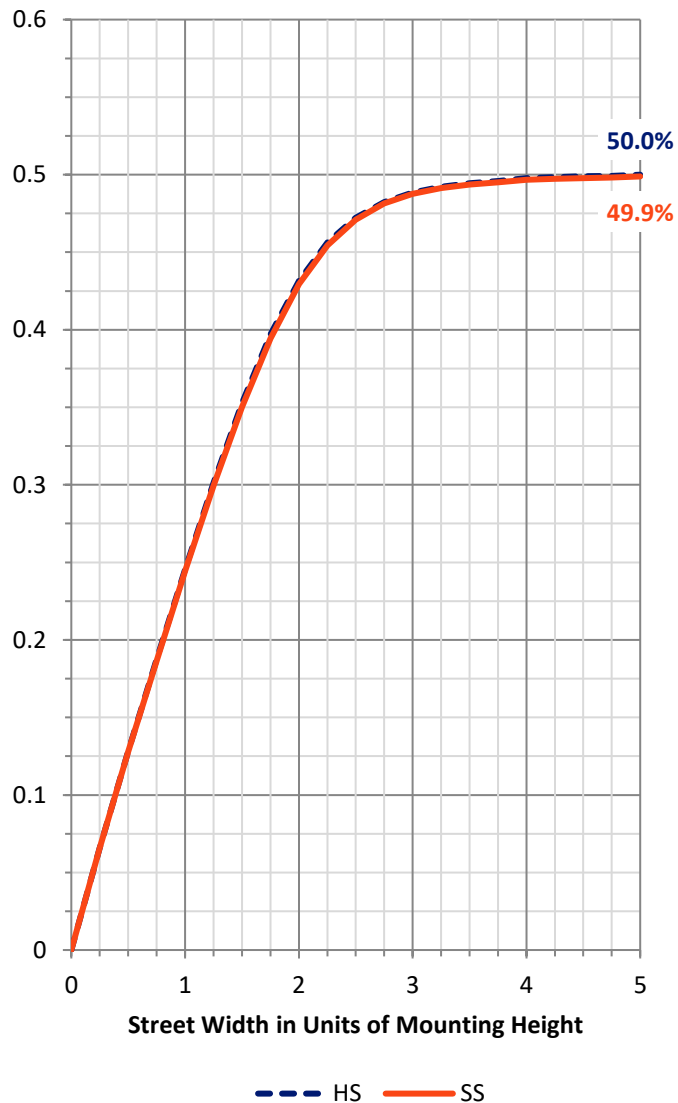
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2715.0 | 0.0 | 2715.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2715.0 | 0.0 | 2715.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5430.0 | 0.0 | 5430.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 27.7 | 0.5 |
| 10°-20° | 109.7 | 2.0 |
| 20°-30° | 209.3 | 3.9 |
| 30°-40° | 382.7 | 7.0 |
| 40°-50° | 742.1 | 13.7 |
| 50°-60° | 1417.1 | 26.1 |
| 60°-70° | 1914.7 | 35.3 |
| 70°-80° | 594.6 | 11.0 |
| 80°-90° | 32.0 | 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° | 5430.0 | 100.0 |
| 0°-180° | 5430.0 | 100.0 |

Coefficient of Utilization



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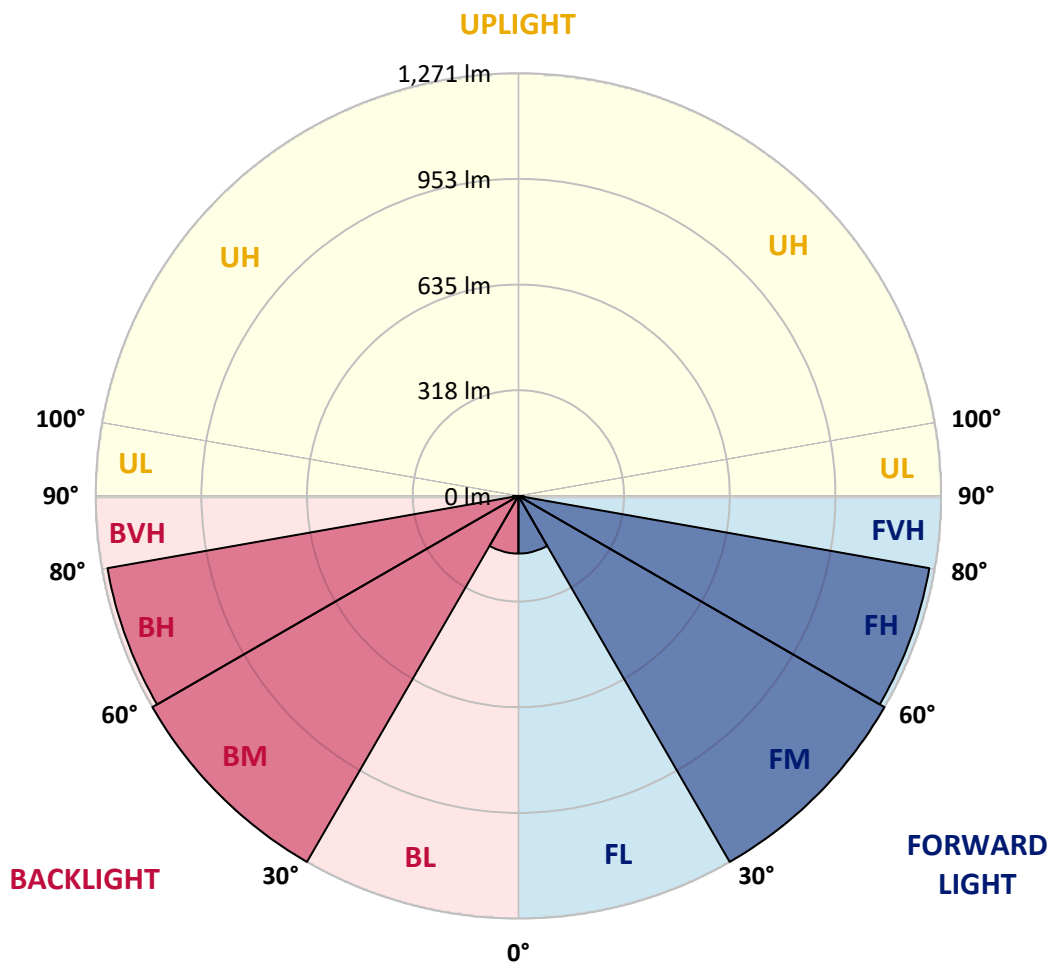
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 173.4 | 3.2 | | | |
| FM (30°-60°) | 1270.9 | 23.4 | | | |
| FH (60°-80°) | 1254.6 | 23.1 | | | G1/1800 |
| FVH (80°-90°) | 16.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 173.4 | 3.2 | B1/500 | | |
| BM (30°-60°) | 1270.9 | 23.4 | B2/2500 | | |
| BH (60°-80°) | 1254.6 | 23.1 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 16.0 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 186.1 | 186.1 | 186.1 | 186.1 | 186.1 |
| 2.5° | 229.1 | 214.4 | 221.1 | 214.4 | 229.1 |
| 5° | 291.2 | 275.9 | 262.4 | 272.1 | 292.0 |
| 7.5° | 334.6 | 311.7 | 283.4 | 309.2 | 332.7 |
| 10° | 341.9 | 329.1 | 327.9 | 327.7 | 341.1 |
| 12.5° | 369.4 | 360.8 | 378.0 | 361.7 | 370.3 |
| 15° | 390.8 | 386.0 | 393.8 | 392.1 | 391.7 |
| 17.5° | 424.0 | 391.2 | 408.9 | 389.3 | 422.9 |
| 20° | 438.6 | 392.3 | 421.9 | 390.0 | 438.4 |
| 22.5° | 456.7 | 417.0 | 425.8 | 418.1 | 455.0 |
| 25° | 467.0 | 433.0 | 436.1 | 433.4 | 467.2 |
| 27.5° | 509.1 | 468.2 | 434.7 | 473.9 | 516.9 |
| 30° | 541.2 | 491.1 | 469.1 | 491.7 | 545.2 |
| 32.5° | 587.6 | 525.3 | 516.7 | 533.7 | 594.9 |
| 35° | 645.1 | 582.8 | 534.5 | 583.0 | 657.2 |
| 37.5° | 757.7 | 635.0 | 618.0 | 653.5 | 766.1 |
| 40° | 837.2 | 717.4 | 681.1 | 730.7 | 850.9 |
| 42.5° | 959.3 | 810.0 | 717.9 | 816.7 | 980.3 |
| 45° | 1073.0 | 922.2 | 834.9 | 929.9 | 1088.3 |
| 47.5° | 1193.2 | 1025.2 | 992.5 | 1034.8 | 1204.5 |
| 50° | 1335.2 | 1164.7 | 1141.8 | 1175.6 | 1340.1 |
| 52.5° | 1502.8 | 1351.4 | 1283.8 | 1357.7 | 1504.5 |
| 55° | 1701.9 | 1508.1 | 1493.0 | 1525.3 | 1704.4 |
| 57.5° | 1896.6 | 1711.2 | 1808.1 | 1713.0 | 1862.8 |
| 60° | 2035.5 | 1898.3 | 2067.1 | 1850.0 | 1960.6 |
| 62.5° | 2044.3 | 2036.9 | 2389.8 | 1955.1 | 1939.6 |
| 65° | 1853.8 | 1980.9 | 2660.0 | 1916.9 | 1760.7 |
| 67.5° | 1459.2 | 1664.2 | 2700.9 | 1631.9 | 1414.5 |
| 70° | 916.9 | 1152.3 | 2387.7 | 1196.6 | 943.0 |
| 72.5° | 422.9 | 620.9 | 1798.0 | 699.0 | 447.0 |
| 75° | 151.5 | 237.7 | 1109.3 | 255.3 | 158.4 |
| 77.5° | 86.0 | 96.3 | 490.3 | 96.7 | 88.9 |
| 80° | 55.4 | 60.0 | 141.6 | 63.4 | 53.9 |
| 82.5° | 31.5 | 42.0 | 62.1 | 44.5 | 28.9 |
| 85° | 17.0 | 26.6 | 27.5 | 27.3 | 17.0 |
| 87.5° | 6.1 | 10.5 | 6.1 | 12.0 | 5.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)