

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: P598169

Luminaire Tested: **PMM-SA4B-827-U-5MQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598169
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-SA4B-827-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: 15384 lumens
Efficiency: N/A
Efficacy: 90.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

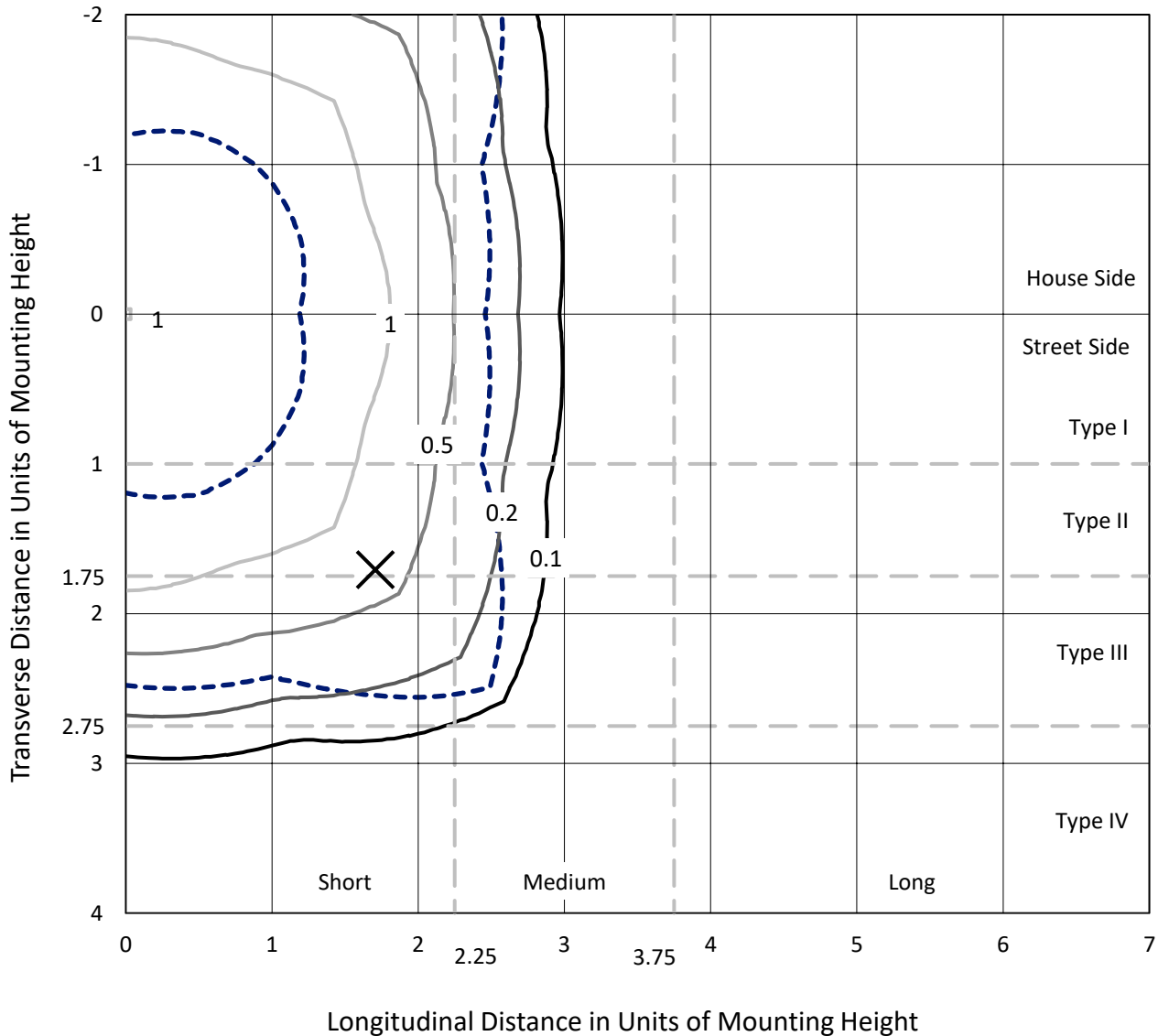
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

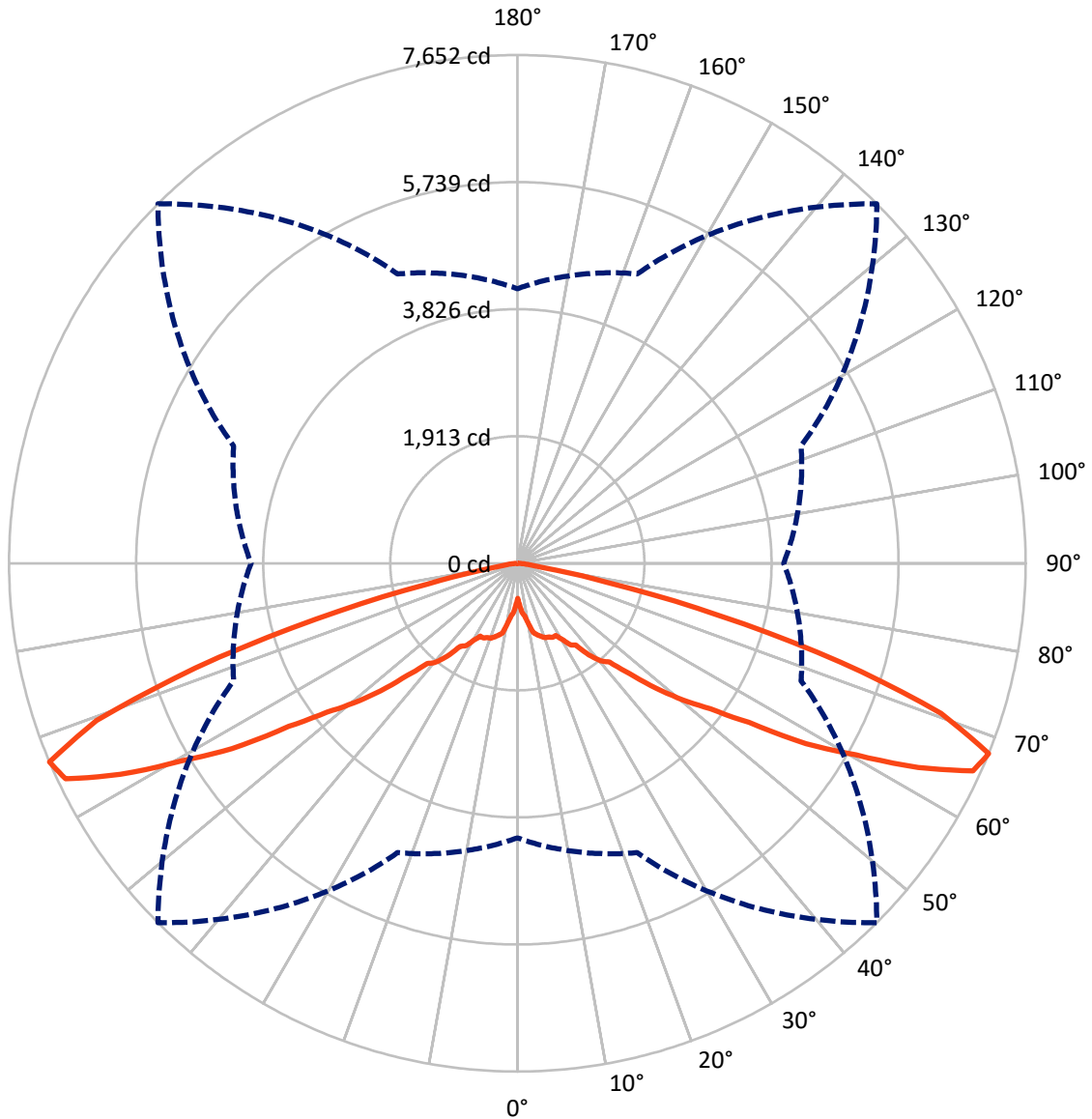
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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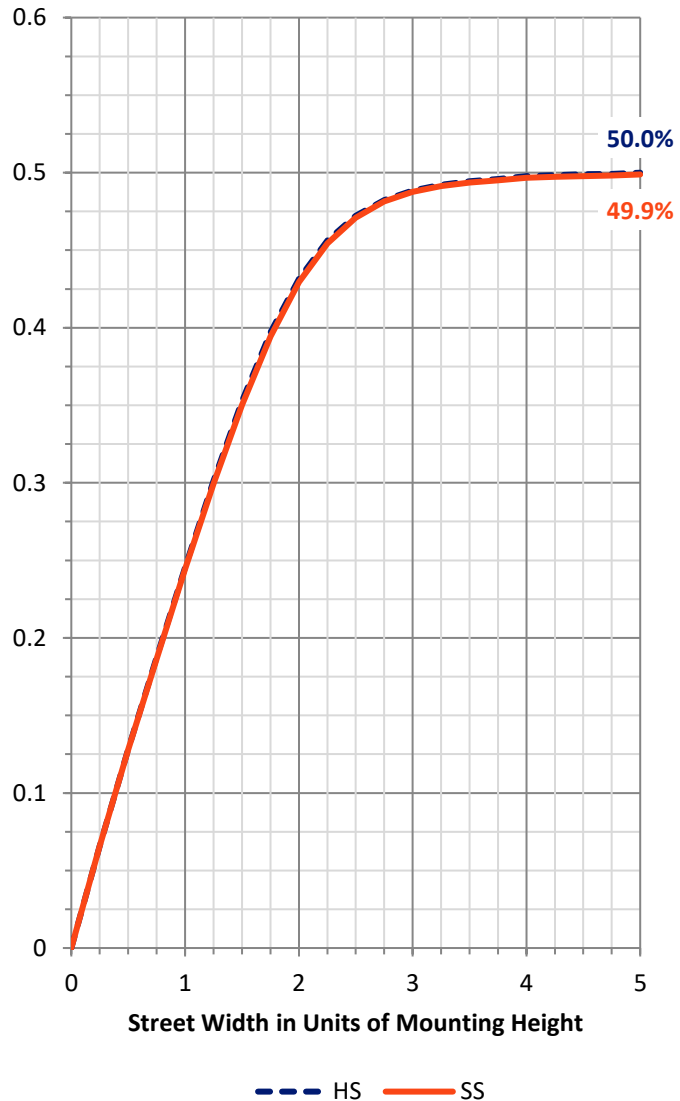
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7692.0 | 0.0 | 7692.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7692.0 | 0.0 | 7692.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15384.0 | 0.0 | 15384.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 78.6 | 0.5 |
| 10°-20° | 310.8 | 2.0 |
| 20°-30° | 593.1 | 3.9 |
| 30°-40° | 1084.3 | 7.0 |
| 40°-50° | 2102.4 | 13.7 |
| 50°-60° | 4014.9 | 26.1 |
| 60°-70° | 5424.5 | 35.3 |
| 70°-80° | 1684.7 | 11.0 |
| 80°-90° | 90.8 | 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° | 15384.0 | 100.0 |
| 0°-180° | 15384.0 | 100.0 |

Coefficient of Utilization



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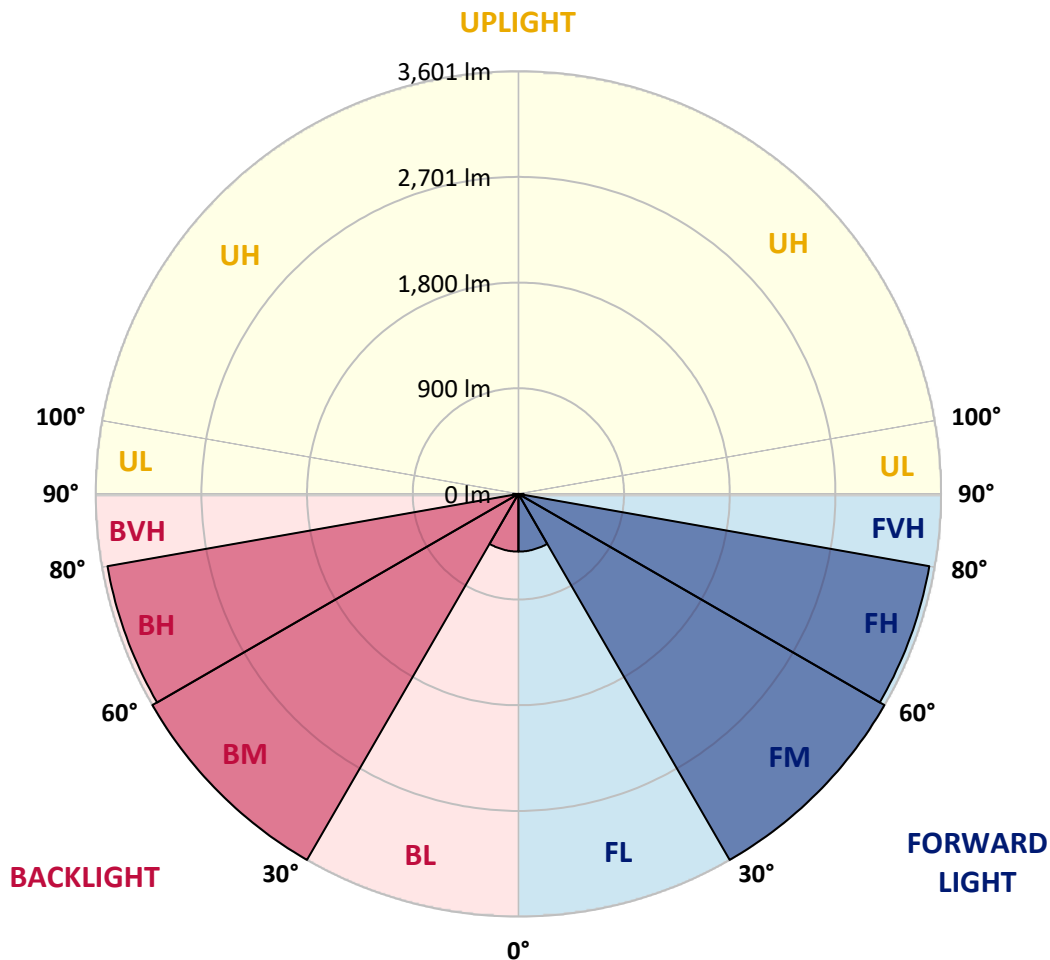
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 491.3 | 3.2 | | | |
| FM | (30°-60°) | 3600.8 | 23.4 | | | |
| FH | (60°-80°) | 3554.6 | 23.1 | | | G2/5000 |
| FVH | (80°-90°) | 45.4 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 491.3 | 3.2 | B1/500 | | |
| BM | (30°-60°) | 3600.8 | 23.4 | B3/5000 | | |
| BH | (60°-80°) | 3554.6 | 23.1 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 45.4 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 527.2 | 527.2 | 527.2 | 527.2 | 527.2 |
| 2.5° | 649.0 | 607.4 | 626.4 | 607.4 | 649.0 |
| 5° | 824.9 | 781.5 | 743.5 | 770.8 | 827.3 |
| 7.5° | 948.0 | 883.2 | 802.9 | 876.0 | 942.6 |
| 10° | 968.8 | 932.5 | 928.9 | 928.3 | 966.4 |
| 12.5° | 1046.6 | 1022.2 | 1071.0 | 1024.6 | 1049.0 |
| 15° | 1107.2 | 1093.6 | 1115.6 | 1110.8 | 1109.6 |
| 17.5° | 1201.1 | 1108.4 | 1158.4 | 1103.1 | 1198.2 |
| 20° | 1242.7 | 1111.4 | 1195.2 | 1104.9 | 1242.2 |
| 22.5° | 1293.9 | 1181.5 | 1206.5 | 1184.5 | 1289.1 |
| 25° | 1323.0 | 1226.7 | 1235.6 | 1227.9 | 1323.6 |
| 27.5° | 1442.4 | 1326.5 | 1231.5 | 1342.6 | 1464.4 |
| 30° | 1533.4 | 1391.3 | 1328.9 | 1393.1 | 1544.7 |
| 32.5° | 1664.7 | 1488.2 | 1463.8 | 1512.0 | 1685.5 |
| 35° | 1827.6 | 1651.1 | 1514.4 | 1651.6 | 1862.0 |
| 37.5° | 2146.7 | 1799.0 | 1750.9 | 1851.3 | 2170.5 |
| 40° | 2372.0 | 2032.6 | 1929.8 | 2070.1 | 2410.6 |
| 42.5° | 2717.9 | 2294.7 | 2033.8 | 2313.7 | 2777.3 |
| 45° | 3040.0 | 2612.7 | 2365.4 | 2634.7 | 3083.4 |
| 47.5° | 3380.6 | 2904.5 | 2811.8 | 2931.8 | 3412.6 |
| 50° | 3782.9 | 3299.7 | 3234.9 | 3330.6 | 3796.6 |
| 52.5° | 4257.8 | 3828.7 | 3637.3 | 3846.5 | 4262.5 |
| 55° | 4821.8 | 4272.6 | 4229.9 | 4321.4 | 4828.9 |
| 57.5° | 5373.3 | 4848.0 | 5122.5 | 4853.3 | 5277.7 |
| 60° | 5766.8 | 5378.1 | 5856.5 | 5241.4 | 5554.6 |
| 62.5° | 5791.8 | 5771.0 | 6770.6 | 5539.2 | 5495.2 |
| 65° | 5252.1 | 5612.3 | 7536.1 | 5431.0 | 4988.2 |
| 67.5° | 4134.2 | 4714.8 | 7652.0 | 4623.3 | 4007.6 |
| 70° | 2597.8 | 3264.7 | 6764.7 | 3390.1 | 2671.5 |
| 72.5° | 1198.2 | 1759.2 | 5094.0 | 1980.3 | 1266.5 |
| 75° | 429.1 | 673.4 | 3142.8 | 723.3 | 448.7 |
| 77.5° | 243.7 | 272.8 | 1389.0 | 274.0 | 252.0 |
| 80° | 156.9 | 170.0 | 401.2 | 179.5 | 152.7 |
| 82.5° | 89.1 | 118.9 | 175.9 | 126.0 | 82.0 |
| 85° | 48.1 | 75.5 | 77.9 | 77.3 | 48.1 |
| 87.5° | 17.2 | 29.7 | 17.2 | 33.9 | 16.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)