

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: McGRAW-EDISON

Report Number: P530588

Luminaire Tested: **GALN-SA5D-750-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-750-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34195 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

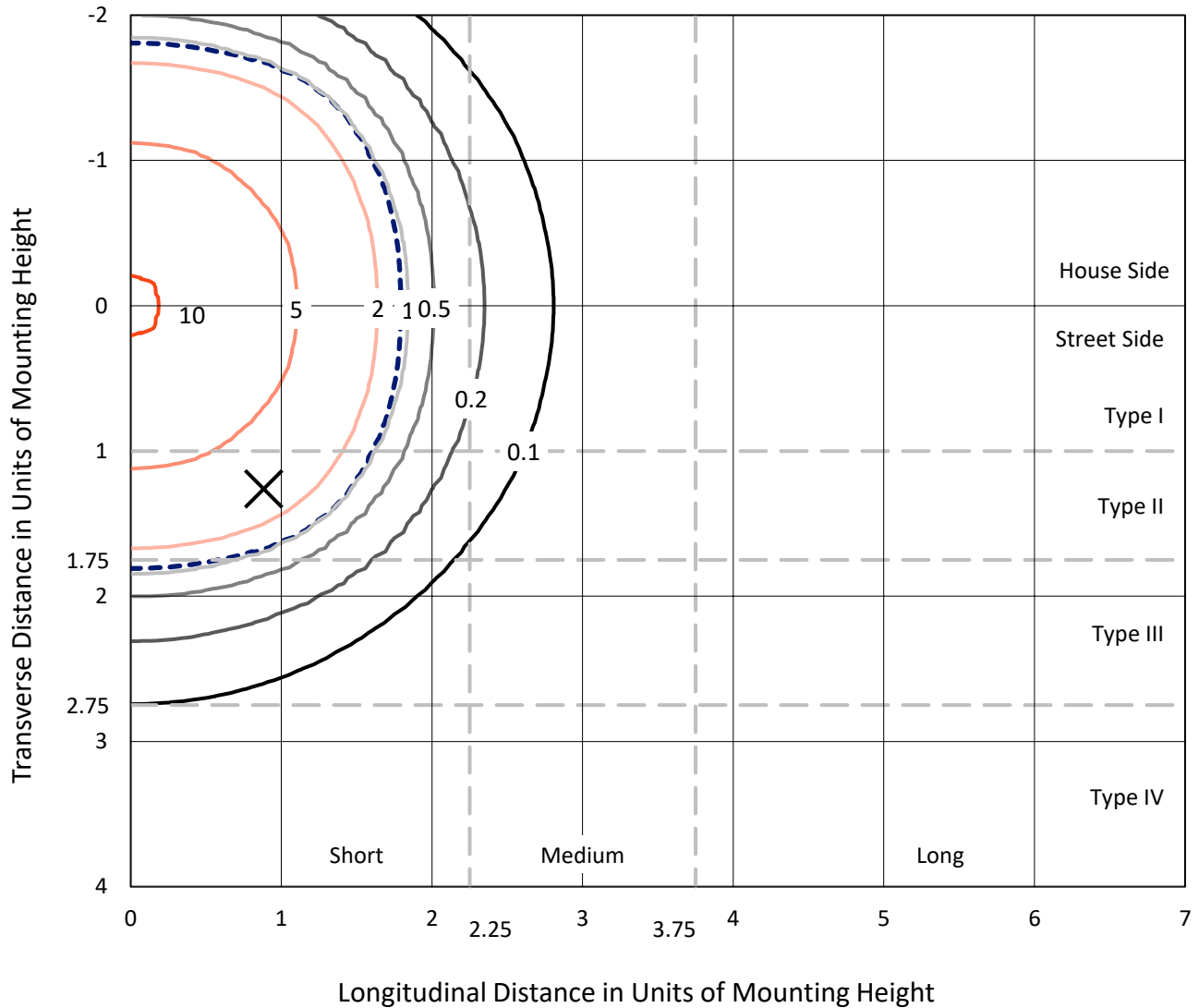
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

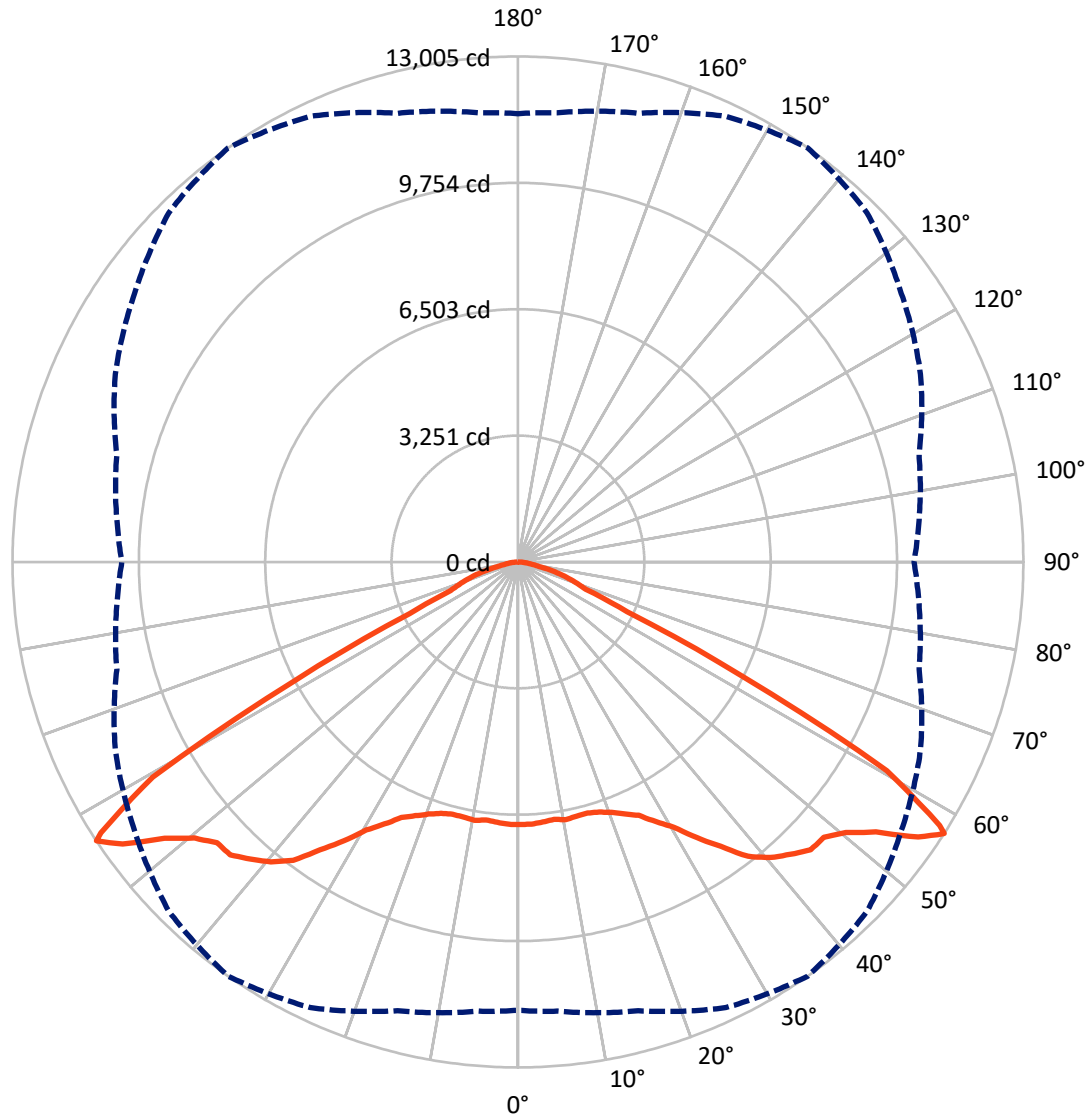
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17097.5 | 0.0 | 17097.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17097.5 | 0.0 | 17097.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34195.0 | 0.0 | 34195.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 640.2 | 1.9 |
| 10°-20° | 1896.2 | 5.5 |
| 20°-30° | 3311.7 | 9.7 |
| 30°-40° | 5426.3 | 15.9 |
| 40°-50° | 7956.2 | 23.3 |
| 50°-60° | 10021.5 | 29.3 |
| 60°-70° | 3769.0 | 11.0 |
| 70°-80° | 1002.2 | 2.9 |
| 80°-90° | 171.8 | 0.5 |
| 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° | 34195.0 | 100.0 |
| 0°-180° | 34195.0 | 100.0 |

Coefficient of Utilization

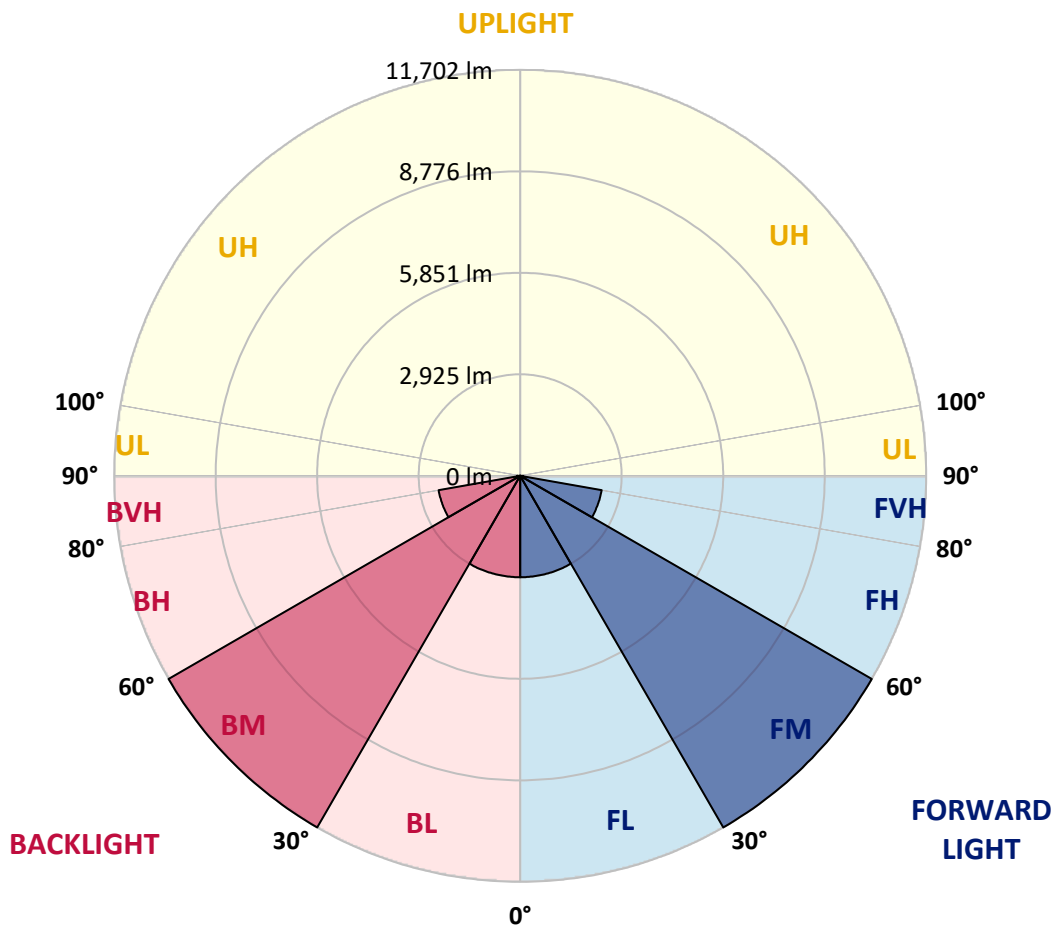


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2924.0 | 8.6 | | | |
| FM (30°-60°) | 11702.0 | 34.2 | | | |
| FH (60°-80°) | 2385.6 | 7.0 | | | G2/5000 |
| FVH (80°-90°) | 85.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 2924.0 | 8.6 | B4/5000 | | |
| BM (30°-60°) | 11702.0 | 34.2 | B5 | | |
| BH (60°-80°) | 2385.6 | 7.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 85.9 | 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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6753.3 | 6753.3 | 6753.3 | 6753.3 | 6753.3 | 6753.3 | 6753.3 | 6753.3 | 6753.3 | 6753.3 | 6753.3 |
| 2.5° | 6719.6 | 6787.0 | 6757.5 | 6740.6 | 6753.3 | 6732.2 | 6698.5 | 6736.4 | 6728.0 | 6694.3 | 6681.6 |
| 5° | 6702.7 | 6753.3 | 6719.6 | 6753.3 | 6719.6 | 6778.5 | 6761.7 | 6698.5 | 6774.3 | 6702.7 | 6728.0 |
| 7.5° | 6690.1 | 6706.9 | 6715.3 | 6698.5 | 6685.9 | 6757.5 | 6719.6 | 6690.1 | 6647.9 | 6635.3 | 6656.4 |
| 10° | 6660.6 | 6702.7 | 6639.5 | 6723.8 | 6740.6 | 6690.1 | 6690.1 | 6635.3 | 6601.6 | 6580.5 | 6652.2 |
| 12.5° | 6736.4 | 6664.8 | 6656.4 | 6698.5 | 6711.1 | 6732.2 | 6673.2 | 6643.7 | 6580.5 | 6589.0 | 6576.3 |
| 15° | 6647.9 | 6677.4 | 6681.6 | 6690.1 | 6702.7 | 6753.3 | 6698.5 | 6635.3 | 6610.0 | 6521.6 | 6530.0 |
| 17.5° | 6681.6 | 6652.2 | 6681.6 | 6778.5 | 6761.7 | 6799.6 | 6740.6 | 6643.7 | 6584.7 | 6534.2 | 6601.6 |
| 20° | 6740.6 | 6728.0 | 6740.6 | 6858.6 | 6879.6 | 6913.4 | 6862.8 | 6774.3 | 6660.6 | 6601.6 | 6635.3 |
| 22.5° | 6803.8 | 6795.4 | 6803.8 | 6917.6 | 7039.7 | 7081.9 | 7031.3 | 6824.9 | 6765.9 | 6656.4 | 6618.4 |
| 25° | 6917.6 | 6926.0 | 7014.5 | 7140.8 | 7220.9 | 7300.9 | 7208.3 | 7060.8 | 6871.2 | 6803.8 | 6723.8 |
| 27.5° | 7170.3 | 7191.4 | 7242.0 | 7427.3 | 7566.3 | 7638.0 | 7507.4 | 7305.1 | 7187.2 | 7048.2 | 7027.1 |
| 30° | 7482.1 | 7482.1 | 7570.6 | 7730.7 | 7920.2 | 8029.8 | 7869.7 | 7629.5 | 7486.3 | 7410.5 | 7364.1 |
| 32.5° | 7895.0 | 7848.6 | 7882.3 | 8164.6 | 8459.5 | 8552.2 | 8337.3 | 8042.4 | 7814.9 | 7713.8 | 7680.1 |
| 35° | 8248.8 | 8278.3 | 8354.2 | 8657.5 | 8986.1 | 9200.9 | 8863.9 | 8480.5 | 8248.8 | 8156.2 | 8139.3 |
| 37.5° | 8708.0 | 8758.6 | 8796.5 | 9213.6 | 9609.6 | 9689.6 | 9365.3 | 9057.7 | 8775.4 | 8699.6 | 8657.5 |
| 40° | 9356.8 | 9323.1 | 9335.8 | 9643.3 | 10001.4 | 10052.0 | 9731.8 | 9512.7 | 9281.0 | 9234.7 | 9234.7 |
| 42.5° | 9891.9 | 9853.9 | 9896.1 | 10009.8 | 10283.7 | 10245.7 | 10068.8 | 9908.7 | 9811.8 | 9761.3 | 9811.8 |
| 45° | 10216.3 | 10207.8 | 10283.7 | 10367.9 | 10561.7 | 10435.3 | 10296.3 | 10321.6 | 10228.9 | 10144.6 | 10140.4 |
| 47.5° | 10570.1 | 10515.4 | 10608.1 | 10734.4 | 10587.0 | 10528.0 | 10519.6 | 10574.4 | 10544.9 | 10397.4 | 10351.1 |
| 50° | 10742.9 | 10721.8 | 10869.3 | 11016.7 | 10936.7 | 10801.8 | 10831.3 | 10919.8 | 10540.6 | 10342.6 | 10228.9 |
| 52.5° | 11206.3 | 11210.5 | 11492.8 | 11572.8 | 11539.1 | 11341.1 | 11404.3 | 11164.2 | 10717.6 | 10439.5 | 10452.2 |
| 55° | 11935.1 | 11905.6 | 12221.6 | 12457.5 | 12495.4 | 12242.7 | 11939.3 | 11602.3 | 11042.0 | 10759.7 | 10675.5 |
| 57° | 11534.9 | 11602.3 | 11952.0 | 12651.3 | 13005.2 | 12706.1 | 12044.6 | 11429.6 | 10683.9 | 10342.6 | 10191.0 |
| 57.5° | 10999.9 | 11109.4 | 11716.0 | 12419.6 | 12790.3 | 12765.1 | 11914.0 | 11109.4 | 10443.8 | 9912.9 | 9925.6 |
| 60° | 8059.3 | 8080.3 | 8628.0 | 9744.4 | 10903.0 | 10928.2 | 9891.9 | 8826.0 | 8084.5 | 7507.4 | 7587.4 |
| 62.5° | 4250.8 | 4347.7 | 4566.8 | 5464.1 | 6466.8 | 6711.1 | 6083.4 | 5535.7 | 4895.4 | 4457.2 | 4499.4 |
| 65° | 2249.7 | 2237.0 | 2342.4 | 2595.1 | 3088.0 | 3214.4 | 3130.2 | 2696.2 | 2473.0 | 2401.3 | 2405.6 |
| 67.5° | 1828.4 | 1849.5 | 1836.8 | 1849.5 | 1883.2 | 1937.9 | 1925.3 | 1942.1 | 1954.8 | 1975.8 | 1971.6 |
| 70° | 1550.3 | 1550.3 | 1558.8 | 1563.0 | 1563.0 | 1588.3 | 1617.7 | 1672.5 | 1676.7 | 1697.8 | 1706.2 |
| 72.5° | 1221.7 | 1213.3 | 1226.0 | 1255.4 | 1259.7 | 1280.7 | 1322.8 | 1356.6 | 1369.2 | 1369.2 | 1343.9 |
| 75° | 829.9 | 838.4 | 855.2 | 880.5 | 905.8 | 943.7 | 977.4 | 998.5 | 1006.9 | 994.2 | 981.6 |
| 77.5° | 467.6 | 476.1 | 488.7 | 526.6 | 556.1 | 589.8 | 627.7 | 648.8 | 669.8 | 674.1 | 648.8 |
| 80° | 278.1 | 278.1 | 299.1 | 328.6 | 362.3 | 396.0 | 429.7 | 455.0 | 463.4 | 463.4 | 450.8 |
| 82.5° | 168.5 | 172.7 | 189.6 | 219.1 | 248.6 | 269.6 | 299.1 | 320.2 | 337.0 | 332.8 | 324.4 |
| 85° | 88.5 | 88.5 | 105.3 | 130.6 | 151.7 | 172.7 | 172.7 | 160.1 | 151.7 | 130.6 | 122.2 |
| 87.5° | 29.5 | 25.3 | 33.7 | 33.7 | 29.5 | 33.7 | 33.7 | 37.9 | 37.9 | 37.9 | 37.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)