

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: P527675

Luminaire Tested: **GALN-SA2D-727-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-727-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7808 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

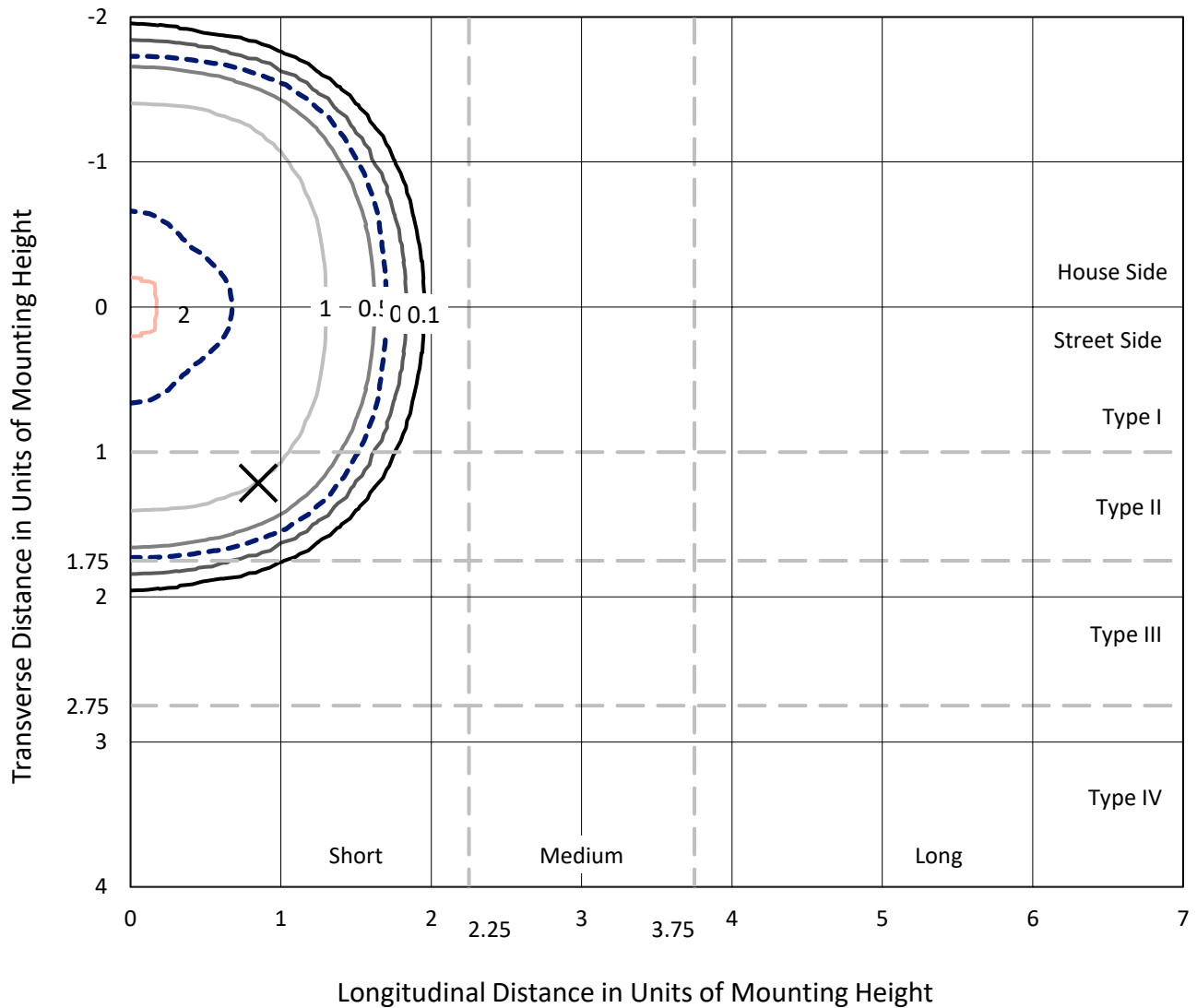
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

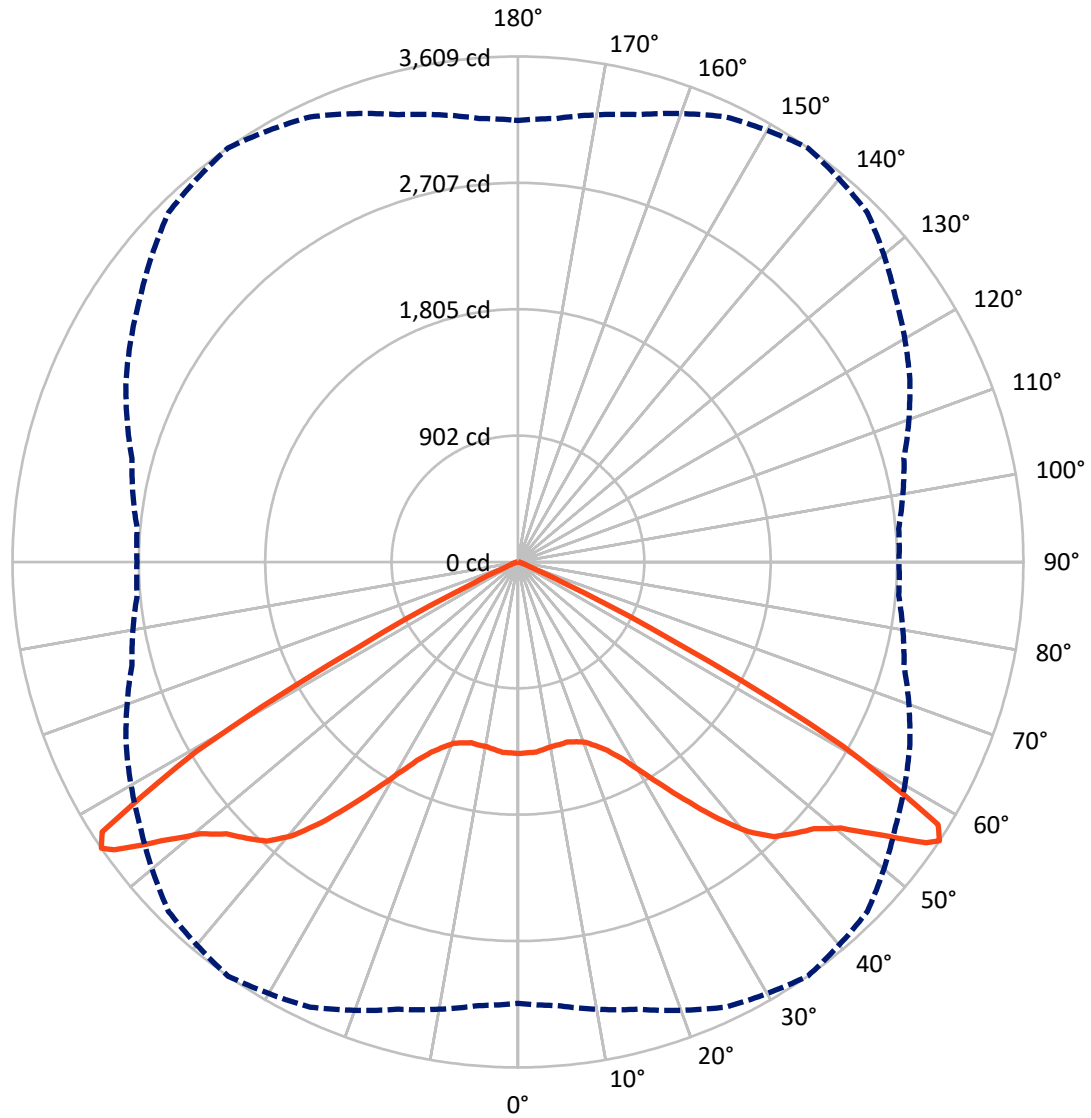
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 3904.0 | 0.0 | 3904.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 3904.0 | 0.0 | 3904.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 7808.0 | 0.0 | 7808.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 128.6 | 1.6 |
| 10°-20° | 375.4 | 4.8 |
| 20°-30° | 679.8 | 8.7 |
| 30°-40° | 1260.6 | 16.1 |
| 40°-50° | 2069.2 | 26.5 |
| 50°-60° | 2665.7 | 34.1 |
| 60°-70° | 587.5 | 7.5 |
| 70°-80° | 34.1 | 0.4 |
| 80°-90° | 7.2 | 0.1 |
| 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° | 7808.0 | 100.0 |
| 0°-180° | 7808.0 | 100.0 |

Coefficient of Utilization



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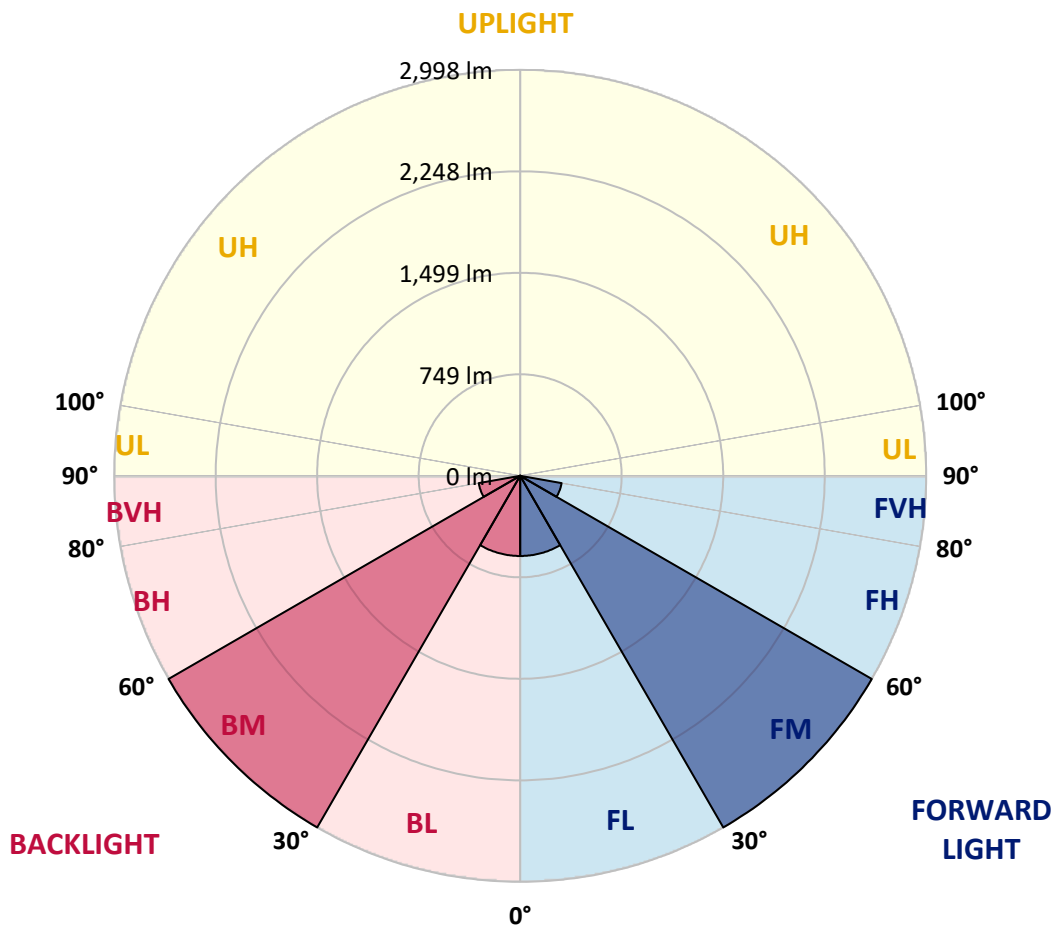
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 591.9 | 7.6 | | | |
| FM (30°-60°) | 2997.7 | 38.4 | | | |
| FH (60°-80°) | 310.8 | 4.0 | | | G0/660 |
| FVH (80°-90°) | 3.6 | 0.0 | | | G0/10 |
| BL (0°-30°) | 591.9 | 7.6 | B2/1000 | | |
| BM (30°-60°) | 2997.7 | 38.4 | B3/5000 | | |
| BH (60°-80°) | 310.8 | 4.0 | B1/500 | | G0/660 |
| BVH (80°-90°) | 3.6 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1368.1 | 1368.1 | 1368.1 | 1368.1 | 1368.1 | 1368.1 | 1368.1 | 1368.1 | 1368.1 | 1368.1 | 1368.1 |
| 2.5° | 1371.0 | 1371.0 | 1372.4 | 1373.8 | 1363.9 | 1359.6 | 1361.1 | 1358.2 | 1356.8 | 1361.1 | 1361.1 |
| 5° | 1366.7 | 1366.7 | 1362.5 | 1363.9 | 1363.9 | 1351.2 | 1351.2 | 1354.0 | 1354.0 | 1345.5 | 1342.7 |
| 7.5° | 1355.4 | 1352.6 | 1346.9 | 1354.0 | 1349.7 | 1349.7 | 1339.8 | 1332.8 | 1329.9 | 1335.6 | 1329.9 |
| 10° | 1331.3 | 1332.8 | 1338.4 | 1341.2 | 1338.4 | 1346.9 | 1329.9 | 1320.0 | 1310.1 | 1305.9 | 1305.9 |
| 12.5° | 1320.0 | 1328.5 | 1320.0 | 1327.1 | 1337.0 | 1329.9 | 1320.0 | 1313.0 | 1298.8 | 1293.1 | 1293.1 |
| 15° | 1318.6 | 1324.3 | 1327.1 | 1337.0 | 1332.8 | 1335.6 | 1315.8 | 1307.3 | 1286.1 | 1276.2 | 1271.9 |
| 17.5° | 1317.2 | 1324.3 | 1328.5 | 1346.9 | 1349.7 | 1351.2 | 1335.6 | 1310.1 | 1291.7 | 1281.8 | 1271.9 |
| 20° | 1332.8 | 1335.6 | 1344.1 | 1362.5 | 1373.8 | 1393.6 | 1365.3 | 1338.4 | 1298.8 | 1287.5 | 1283.2 |
| 22.5° | 1352.6 | 1366.7 | 1375.2 | 1395.0 | 1424.7 | 1441.7 | 1404.9 | 1371.0 | 1329.9 | 1315.8 | 1298.8 |
| 25° | 1416.2 | 1413.4 | 1427.6 | 1468.6 | 1492.6 | 1505.4 | 1475.7 | 1426.1 | 1372.4 | 1355.4 | 1358.2 |
| 27.5° | 1495.5 | 1498.3 | 1511.0 | 1556.3 | 1591.7 | 1611.5 | 1576.1 | 1511.0 | 1458.7 | 1430.4 | 1427.6 |
| 30° | 1598.7 | 1595.9 | 1610.1 | 1670.9 | 1734.6 | 1764.3 | 1702.0 | 1625.6 | 1574.7 | 1537.9 | 1546.4 |
| 32.5° | 1707.7 | 1709.1 | 1748.7 | 1803.9 | 1907.2 | 1965.2 | 1864.7 | 1771.4 | 1695.0 | 1669.5 | 1656.8 |
| 35° | 1869.0 | 1876.0 | 1907.2 | 1992.1 | 2106.7 | 2181.7 | 2071.3 | 1959.5 | 1871.8 | 1825.1 | 1830.8 |
| 37.5° | 2068.5 | 2061.4 | 2113.7 | 2205.7 | 2326.0 | 2381.1 | 2287.8 | 2160.4 | 2071.3 | 2040.2 | 2060.0 |
| 40° | 2280.7 | 2287.8 | 2314.6 | 2398.1 | 2532.5 | 2569.3 | 2430.7 | 2361.3 | 2283.5 | 2268.0 | 2292.0 |
| 42.5° | 2492.9 | 2488.7 | 2508.5 | 2583.5 | 2681.1 | 2655.6 | 2573.6 | 2532.5 | 2477.3 | 2446.2 | 2478.8 |
| 45° | 2648.5 | 2641.5 | 2678.3 | 2729.2 | 2764.6 | 2716.5 | 2679.7 | 2665.5 | 2637.2 | 2603.3 | 2633.0 |
| 47.5° | 2799.9 | 2794.3 | 2829.6 | 2843.8 | 2846.6 | 2782.9 | 2790.0 | 2815.5 | 2744.7 | 2674.0 | 2708.0 |
| 50° | 2928.7 | 2918.8 | 2962.6 | 2993.8 | 2986.7 | 2884.8 | 2910.3 | 2884.8 | 2774.5 | 2691.0 | 2678.3 |
| 52.5° | 3143.7 | 3148.0 | 3194.7 | 3251.3 | 3234.3 | 3149.4 | 3112.6 | 2996.6 | 2855.1 | 2780.1 | 2736.3 |
| 55° | 3279.5 | 3258.3 | 3339.0 | 3518.7 | 3538.5 | 3450.7 | 3288.0 | 3116.8 | 2904.6 | 2812.7 | 2801.3 |
| 56° | 3152.2 | 3179.1 | 3306.4 | 3507.3 | 3609.2 | 3528.6 | 3292.3 | 3087.1 | 2853.7 | 2729.2 | 2720.7 |
| 57.5° | 2828.2 | 2814.1 | 2986.7 | 3261.2 | 3538.5 | 3504.5 | 3176.3 | 2874.9 | 2603.3 | 2463.2 | 2446.2 |
| 60° | 1760.0 | 1801.1 | 1952.4 | 2292.0 | 2662.7 | 2679.7 | 2354.3 | 2095.3 | 1778.4 | 1653.9 | 1683.6 |
| 62.5° | 689.0 | 653.6 | 748.4 | 1001.7 | 1256.4 | 1313.0 | 1189.9 | 989.0 | 812.1 | 689.0 | 680.5 |
| 65° | 159.9 | 155.6 | 175.4 | 241.9 | 338.1 | 391.9 | 372.1 | 267.4 | 196.7 | 186.8 | 172.6 |
| 67.5° | 90.5 | 90.5 | 86.3 | 86.3 | 94.8 | 100.5 | 96.2 | 94.8 | 99.0 | 103.3 | 101.9 |
| 70° | 63.7 | 62.3 | 59.4 | 60.8 | 58.0 | 58.0 | 62.3 | 69.3 | 75.0 | 75.0 | 76.4 |
| 72.5° | 38.2 | 38.2 | 38.2 | 42.4 | 42.4 | 42.4 | 46.7 | 52.3 | 53.8 | 52.3 | 50.9 |
| 75° | 17.0 | 17.0 | 19.8 | 24.1 | 26.9 | 28.3 | 32.5 | 35.4 | 38.2 | 35.4 | 32.5 |
| 77.5° | 4.2 | 4.2 | 7.1 | 9.9 | 12.7 | 15.6 | 21.2 | 25.5 | 26.9 | 25.5 | 21.2 |
| 80° | 1.4 | 1.4 | 2.8 | 7.1 | 12.7 | 15.6 | 21.2 | 22.6 | 24.1 | 21.2 | 17.0 |
| 82.5° | 1.4 | 1.4 | 2.8 | 7.1 | 9.9 | 12.7 | 17.0 | 19.8 | 21.2 | 18.4 | 17.0 |
| 85° | 0.0 | 1.4 | 2.8 | 5.7 | 8.5 | 11.3 | 11.3 | 8.5 | 7.1 | 4.2 | 5.7 |
| 87.5° | 0.0 | 0.0 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)