

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: P451178

Luminaire Tested: **GALN-SA2A-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9625 lumens
Efficiency: N/A
Efficacy: 152.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

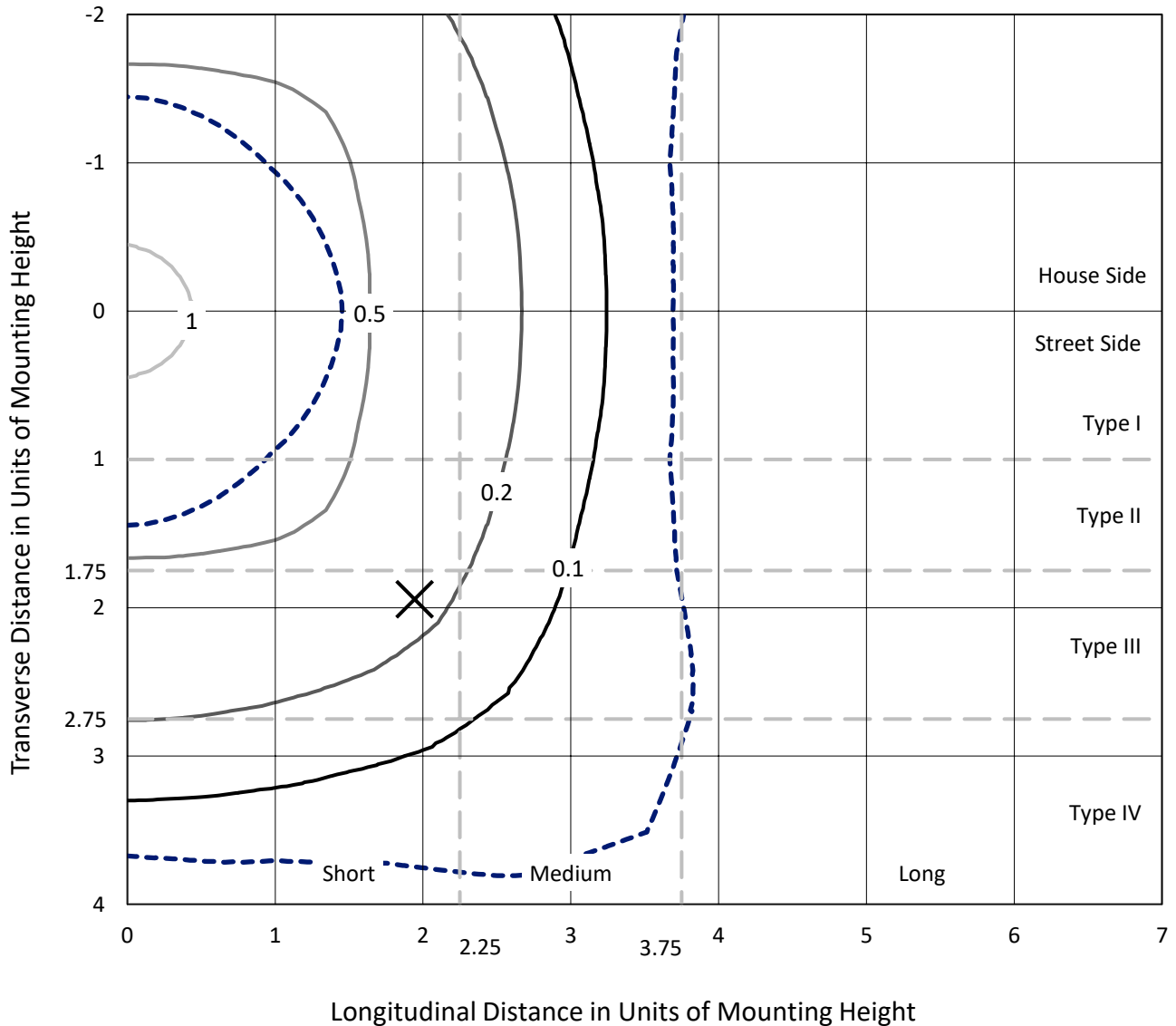
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

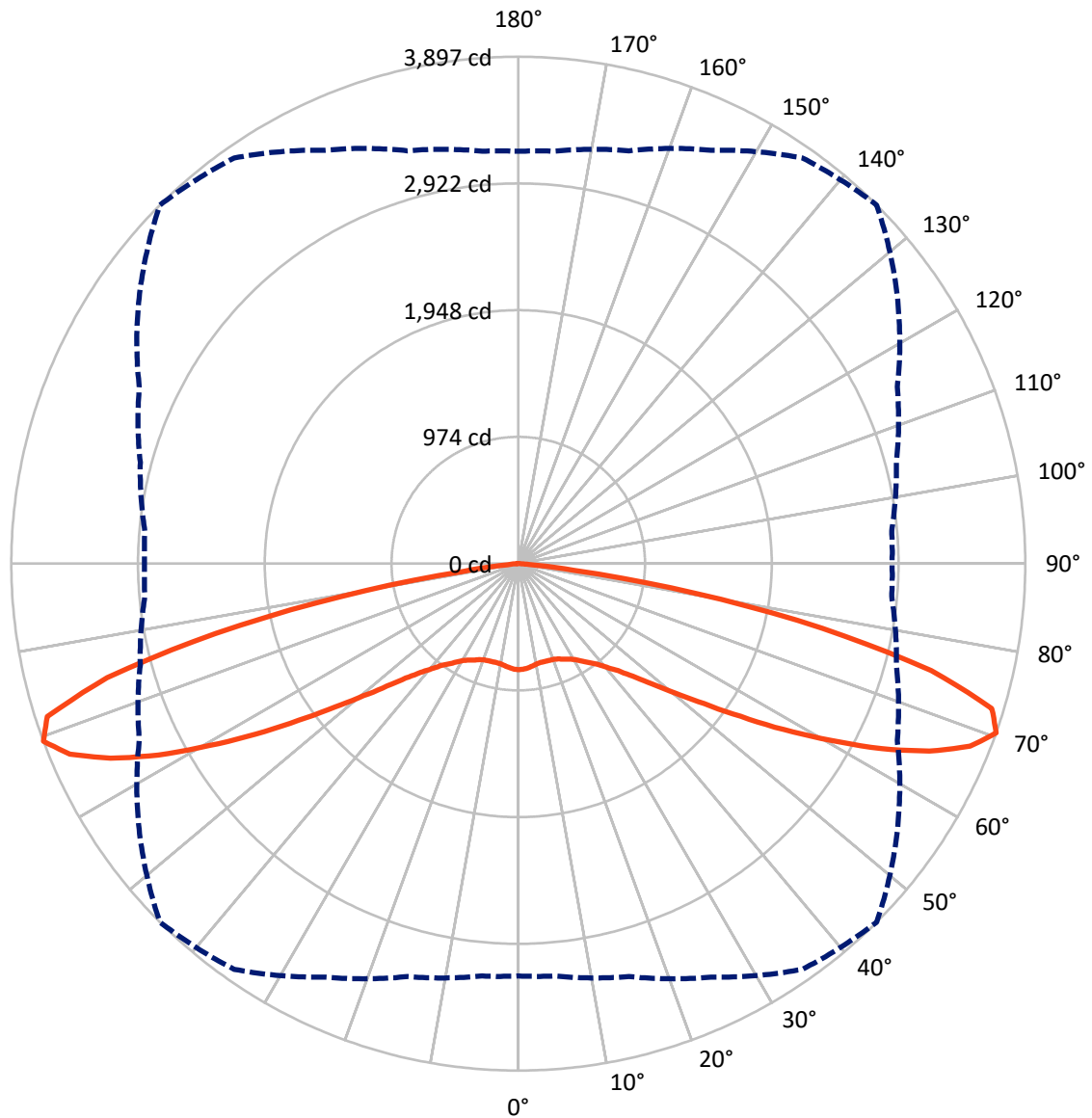
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4812.5 | 0.0 | 4812.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4812.5 | 0.0 | 4812.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 9625.0 | 0.0 | 9625.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 76.2 | 0.8 |
| 10°-20° | 223.1 | 2.3 |
| 20°-30° | 380.1 | 3.9 |
| 30°-40° | 589.2 | 6.1 |
| 40°-50° | 991.6 | 10.3 |
| 50°-60° | 1804.2 | 18.7 |
| 60°-70° | 3054.5 | 31.7 |
| 70°-80° | 2364.3 | 24.6 |
| 80°-90° | 141.7 | 1.5 |
| 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° | 9625.0 | 100.0 |
| 0°-180° | 9625.0 | 100.0 |

Coefficient of Utilization



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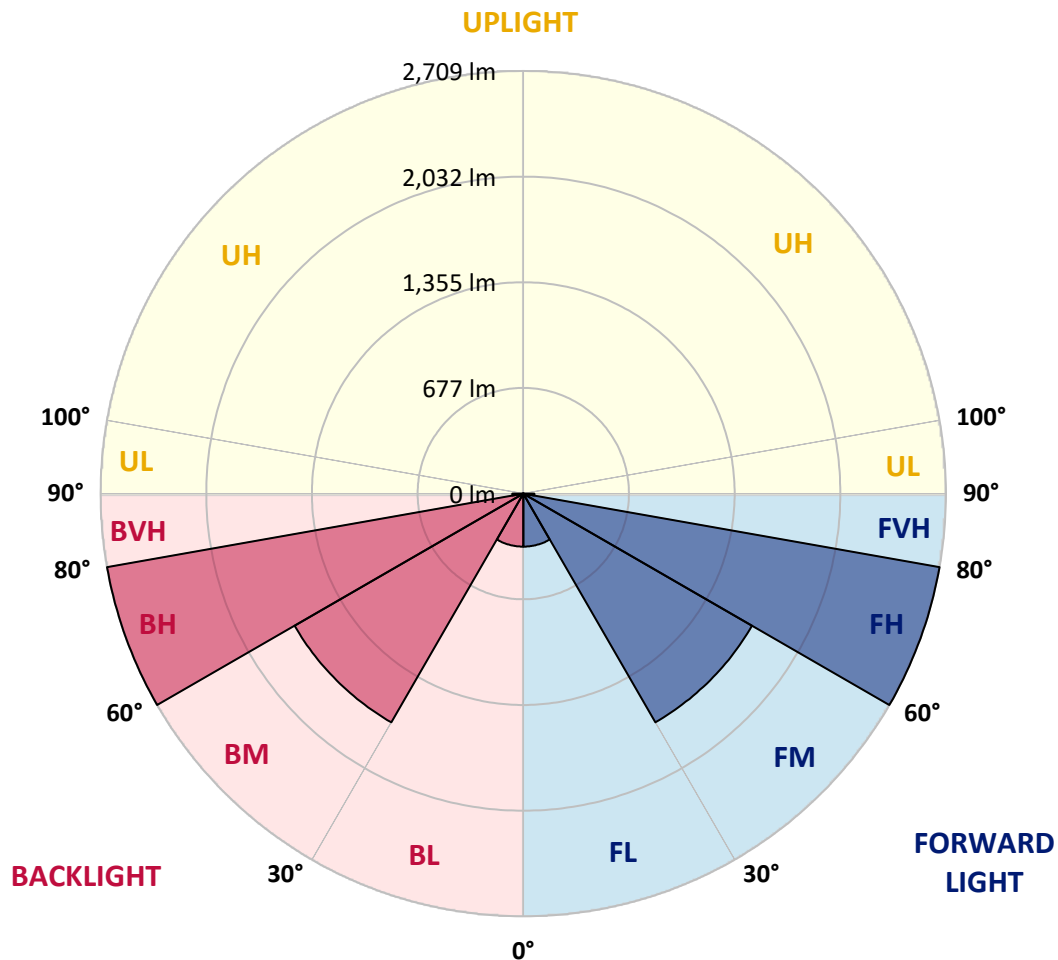
CATALOG NUMBER: GALN-SA2A-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 339.7 | 3.5 | | | |
| FM (30°-60°) | 1692.5 | 17.6 | | | |
| FH (60°-80°) | 2709.4 | 28.1 | | | G2/5000 |
| FVH (80°-90°) | 70.8 | 0.7 | | | G1/100 |
| BL (0°-30°) | 339.7 | 3.5 | B1/500 | | |
| BM (30°-60°) | 1692.5 | 17.6 | B2/2500 | | |
| BH (60°-80°) | 2709.4 | 28.1 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 70.8 | 0.7 | | | 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° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 814.9 | 814.9 | 814.9 | 814.9 | 814.9 | 814.9 | 814.9 | 814.9 | 814.9 | 814.9 | 814.9 |
| 2.5° | 812.8 | 813.3 | 813.3 | 812.3 | 811.8 | 811.8 | 811.3 | 811.3 | 812.8 | 813.3 | 813.9 |
| 5° | 805.7 | 805.7 | 805.7 | 805.2 | 804.2 | 804.2 | 803.2 | 803.2 | 803.7 | 805.2 | 804.2 |
| 7.5° | 796.1 | 797.1 | 797.1 | 795.0 | 793.5 | 793.5 | 793.0 | 793.5 | 794.0 | 795.6 | 795.0 |
| 10° | 793.0 | 793.5 | 791.0 | 787.4 | 784.9 | 783.4 | 783.9 | 784.9 | 787.4 | 788.4 | 788.9 |
| 12.5° | 795.0 | 795.0 | 790.5 | 785.4 | 780.8 | 778.8 | 778.3 | 781.8 | 786.4 | 789.5 | 790.5 |
| 15° | 797.6 | 796.6 | 791.0 | 784.4 | 779.8 | 779.3 | 778.8 | 781.3 | 787.9 | 794.0 | 794.5 |
| 17.5° | 799.1 | 798.6 | 791.5 | 783.4 | 780.8 | 780.8 | 780.3 | 782.3 | 789.5 | 797.1 | 797.6 |
| 20° | 804.2 | 802.7 | 794.5 | 785.9 | 783.9 | 784.9 | 783.4 | 785.9 | 793.5 | 802.7 | 804.7 |
| 22.5° | 814.4 | 812.8 | 804.7 | 796.1 | 795.0 | 795.0 | 794.5 | 797.1 | 805.2 | 814.9 | 816.4 |
| 25° | 826.6 | 825.0 | 817.4 | 811.3 | 812.3 | 814.4 | 813.3 | 813.9 | 820.5 | 828.6 | 831.1 |
| 27.5° | 842.8 | 840.3 | 833.7 | 828.6 | 831.6 | 831.6 | 831.6 | 831.1 | 835.2 | 842.8 | 845.4 |
| 30° | 862.7 | 861.6 | 854.5 | 854.0 | 856.6 | 854.0 | 854.0 | 854.5 | 855.0 | 862.2 | 864.7 |
| 32.5° | 888.6 | 886.6 | 883.0 | 882.0 | 889.1 | 891.1 | 884.0 | 877.4 | 881.0 | 888.1 | 889.6 |
| 35° | 931.3 | 928.2 | 923.2 | 917.6 | 923.2 | 932.8 | 917.6 | 912.5 | 921.6 | 931.3 | 932.3 |
| 37.5° | 989.2 | 987.7 | 979.6 | 969.4 | 968.9 | 979.1 | 963.3 | 962.8 | 980.1 | 991.8 | 993.3 |
| 40° | 1061.9 | 1063.5 | 1053.3 | 1043.6 | 1038.5 | 1046.7 | 1034.5 | 1039.1 | 1055.8 | 1069.0 | 1068.0 |
| 42.5° | 1164.1 | 1158.5 | 1142.8 | 1133.6 | 1128.0 | 1125.0 | 1121.9 | 1129.0 | 1147.8 | 1162.1 | 1173.3 |
| 45° | 1283.6 | 1281.5 | 1261.7 | 1250.5 | 1238.3 | 1233.7 | 1232.7 | 1245.4 | 1268.3 | 1285.6 | 1287.1 |
| 47.5° | 1418.8 | 1414.2 | 1401.5 | 1389.8 | 1385.2 | 1379.6 | 1374.6 | 1384.2 | 1407.1 | 1419.3 | 1422.9 |
| 50° | 1558.1 | 1559.1 | 1559.1 | 1557.1 | 1561.6 | 1562.6 | 1548.9 | 1552.5 | 1565.2 | 1564.2 | 1563.2 |
| 52.5° | 1717.2 | 1722.8 | 1749.2 | 1751.8 | 1773.6 | 1788.4 | 1763.4 | 1748.7 | 1744.1 | 1716.7 | 1718.7 |
| 55° | 1904.3 | 1909.3 | 1949.0 | 1988.6 | 2047.6 | 2072.5 | 2020.2 | 1974.4 | 1941.9 | 1900.2 | 1902.2 |
| 57.5° | 2137.6 | 2140.1 | 2177.7 | 2254.0 | 2347.5 | 2406.0 | 2314.0 | 2223.5 | 2157.4 | 2117.8 | 2102.0 |
| 60° | 2388.7 | 2391.2 | 2446.1 | 2539.2 | 2684.6 | 2755.7 | 2641.9 | 2493.9 | 2410.6 | 2350.1 | 2354.1 |
| 62.5° | 2690.2 | 2700.3 | 2749.6 | 2877.7 | 3054.1 | 3133.9 | 2983.0 | 2785.2 | 2672.4 | 2597.1 | 2600.2 |
| 65° | 3013.0 | 3030.2 | 3084.1 | 3224.9 | 3387.6 | 3473.5 | 3288.5 | 3060.2 | 2919.9 | 2827.9 | 2837.6 |
| 67.5° | 3222.4 | 3237.6 | 3315.4 | 3471.0 | 3673.8 | 3745.0 | 3506.0 | 3240.2 | 3064.8 | 2955.0 | 2934.7 |
| 70° | 3169.0 | 3181.7 | 3285.4 | 3506.0 | 3806.5 | 3896.5 | 3557.9 | 3213.7 | 3007.4 | 2880.8 | 2872.6 |
| 72.5° | 2797.4 | 2771.0 | 2922.5 | 3239.2 | 3655.0 | 3806.0 | 3394.7 | 2935.2 | 2675.4 | 2545.3 | 2530.0 |
| 75° | 1853.9 | 1911.4 | 2135.0 | 2508.2 | 3092.3 | 3279.3 | 2897.6 | 2356.7 | 2029.8 | 1921.5 | 1904.8 |
| 77.5° | 619.7 | 663.9 | 862.7 | 1421.8 | 2108.1 | 2389.2 | 2111.1 | 1541.3 | 1090.4 | 878.4 | 882.5 |
| 80° | 164.2 | 162.2 | 209.9 | 390.9 | 911.0 | 1383.7 | 1060.4 | 522.1 | 285.7 | 206.9 | 196.2 |
| 82.5° | 59.0 | 66.1 | 84.9 | 108.3 | 241.5 | 430.1 | 303.5 | 146.4 | 107.3 | 79.3 | 76.8 |
| 85° | 25.9 | 25.4 | 36.6 | 43.2 | 60.5 | 80.3 | 71.2 | 62.0 | 54.4 | 36.1 | 33.6 |
| 87.5° | 5.6 | 5.6 | 8.6 | 6.6 | 10.7 | 10.7 | 13.2 | 15.8 | 16.3 | 10.7 | 8.6 |
| 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)