

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: P450944

Luminaire Tested: **GALN-SA1D-740-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8210 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

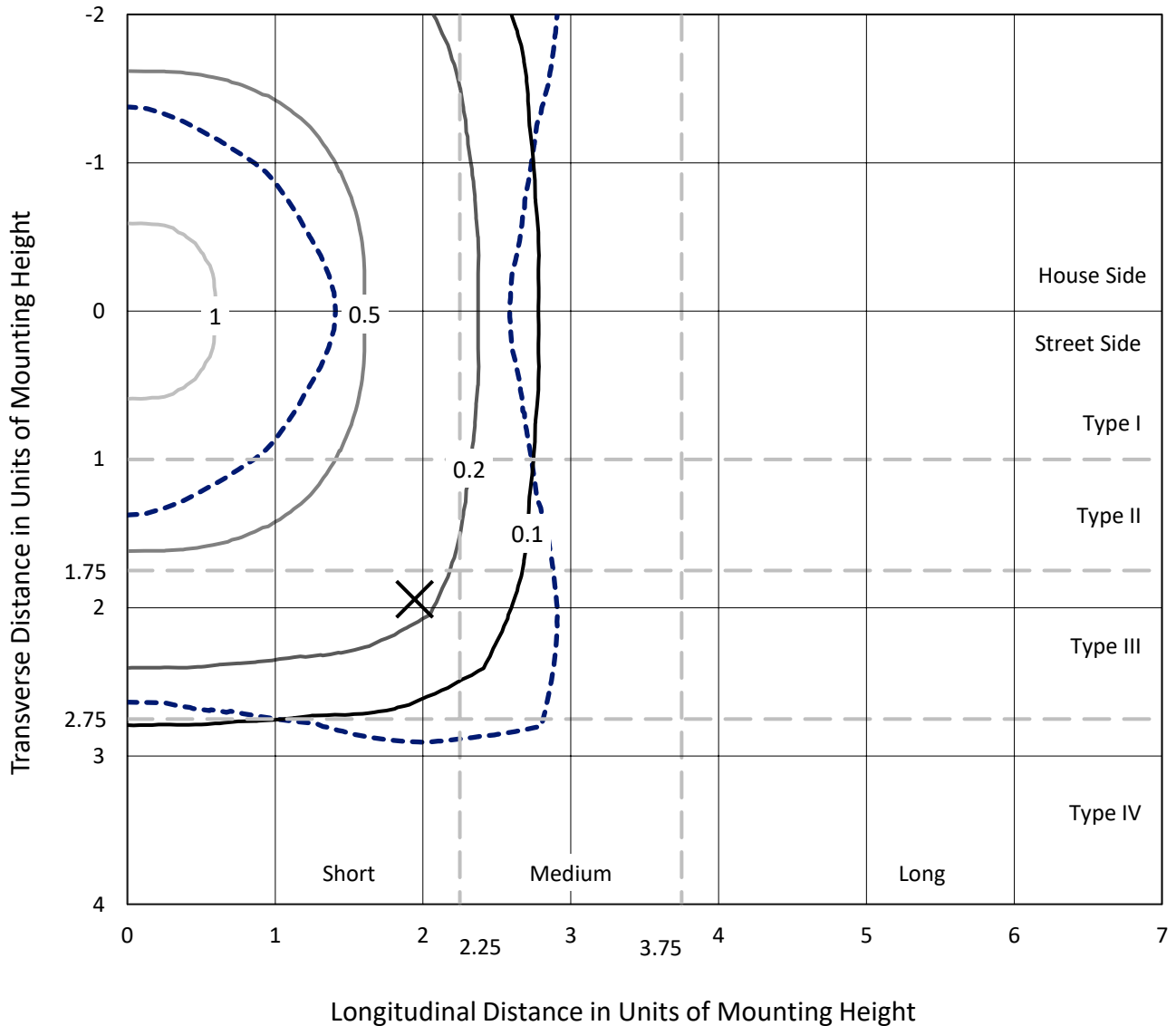
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

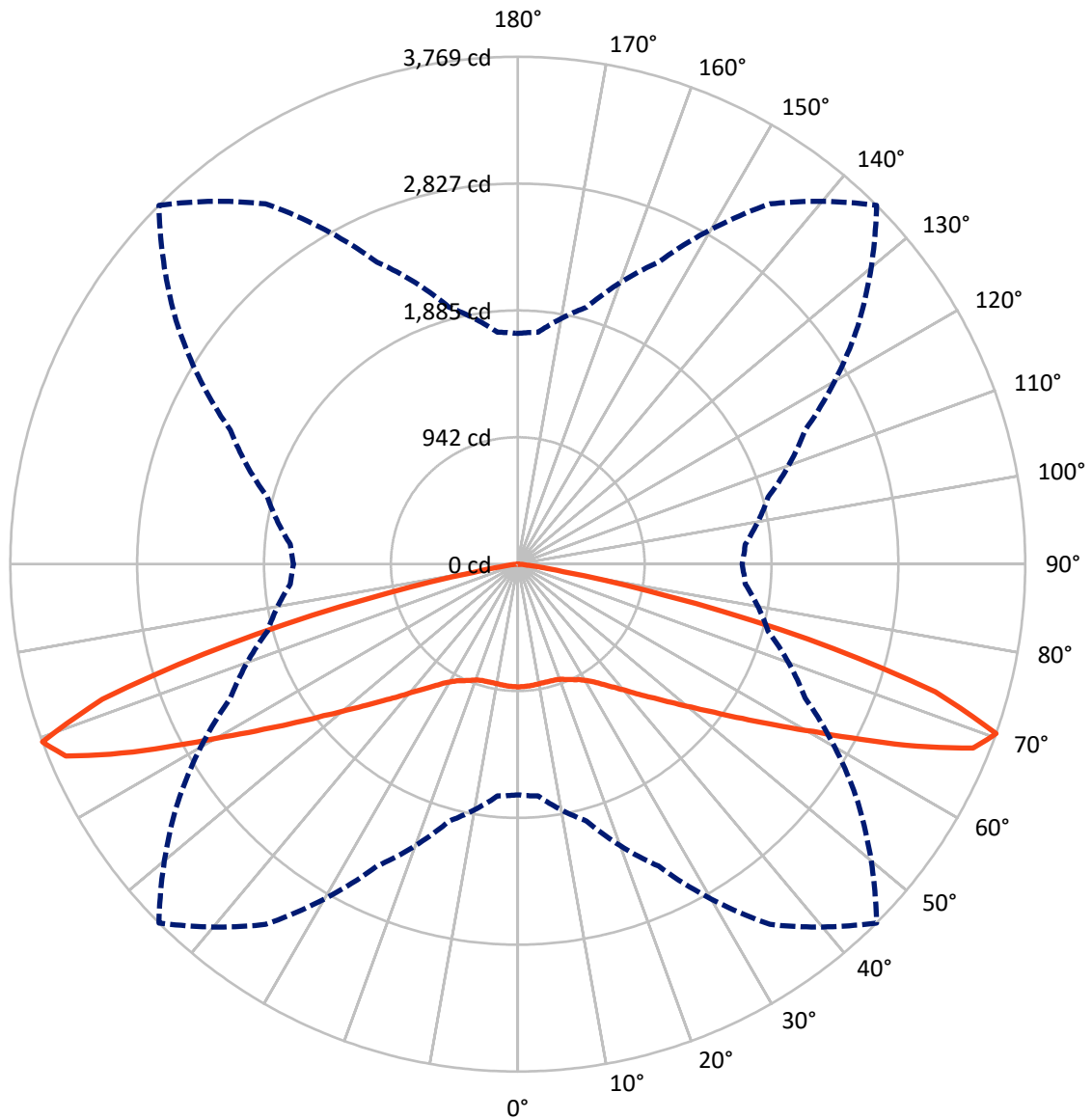
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 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 | 4105.0 | 0.0 | 4105.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4105.0 | 0.0 | 4105.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8210.0 | 0.0 | 8210.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 86.5 | 1.1 |
| 10°-20° | 253.7 | 3.1 |
| 20°-30° | 433.9 | 5.3 |
| 30°-40° | 688.7 | 8.4 |
| 40°-50° | 1111.0 | 13.5 |
| 50°-60° | 1807.6 | 22.0 |
| 60°-70° | 2620.4 | 31.9 |
| 70°-80° | 1162.3 | 14.2 |
| 80°-90° | 45.8 | 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° | 8210.0 | 100.0 |
| 0°-180° | 8210.0 | 100.0 |



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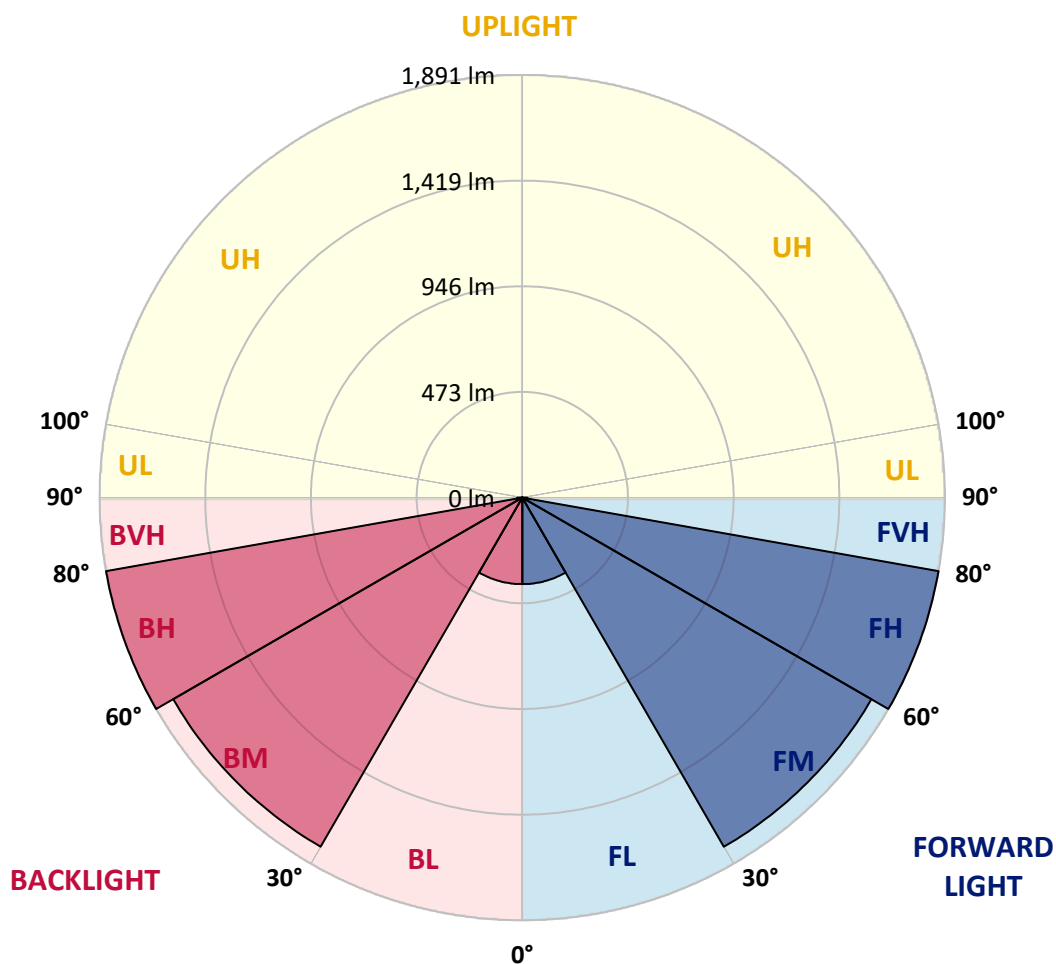
CATALOG NUMBER: GALN-SA1D-740-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 387.0 | 4.7 | | | |
| FM (30°-60°) | 1803.7 | 22.0 | | | |
| FH (60°-80°) | 1891.4 | 23.0 | | | G2/5000 |
| FVH (80°-90°) | 22.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 387.0 | 4.7 | B1/500 | | |
| BM (30°-60°) | 1803.7 | 22.0 | B2/2500 | | |
| BH (60°-80°) | 1891.4 | 23.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 22.9 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 911.7 | 911.7 | 911.7 | 911.7 | 911.7 | 911.7 | 911.7 | 911.7 | 911.7 | 911.7 | 911.7 |
| 2.5° | 911.7 | 912.5 | 911.2 | 910.4 | 910.0 | 910.0 | 909.5 | 910.0 | 912.5 | 913.0 | 911.7 |
| 5° | 909.1 | 910.0 | 909.5 | 908.7 | 908.2 | 908.2 | 907.8 | 907.4 | 909.5 | 910.4 | 910.0 |
| 7.5° | 905.6 | 906.1 | 905.6 | 905.2 | 905.6 | 905.2 | 903.9 | 903.0 | 904.8 | 904.8 | 904.3 |
| 10° | 899.6 | 900.4 | 900.0 | 900.4 | 901.3 | 901.3 | 899.6 | 897.8 | 898.3 | 897.4 | 897.4 |
| 12.5° | 892.2 | 893.5 | 893.9 | 895.7 | 897.8 | 900.4 | 896.5 | 892.6 | 891.8 | 891.3 | 890.9 |
| 15° | 887.5 | 888.7 | 890.5 | 892.2 | 896.1 | 901.7 | 896.1 | 890.0 | 888.3 | 886.6 | 885.7 |
| 17.5° | 886.2 | 887.9 | 890.5 | 893.1 | 898.3 | 903.9 | 899.1 | 893.1 | 888.7 | 886.2 | 885.3 |
| 20° | 889.6 | 890.9 | 894.8 | 899.6 | 906.9 | 912.5 | 907.8 | 901.3 | 894.8 | 890.9 | 889.6 |
| 22.5° | 896.5 | 898.7 | 903.5 | 912.1 | 922.5 | 930.7 | 924.2 | 913.4 | 903.0 | 897.8 | 896.1 |
| 25° | 911.7 | 913.4 | 919.0 | 930.7 | 942.8 | 950.6 | 943.7 | 931.2 | 916.9 | 910.0 | 907.8 |
| 27.5° | 934.6 | 937.2 | 943.3 | 957.1 | 967.1 | 971.4 | 966.6 | 958.0 | 947.6 | 940.2 | 938.5 |
| 30° | 967.1 | 970.1 | 979.2 | 993.9 | 1000.4 | 1003.0 | 1000.8 | 995.2 | 987.8 | 980.0 | 978.3 |
| 32.5° | 1010.8 | 1012.5 | 1022.9 | 1036.7 | 1042.8 | 1043.7 | 1041.1 | 1038.5 | 1026.3 | 1013.4 | 1012.5 |
| 35° | 1059.7 | 1062.7 | 1075.2 | 1091.7 | 1097.3 | 1097.7 | 1092.5 | 1088.7 | 1074.4 | 1064.0 | 1064.0 |
| 37.5° | 1124.6 | 1125.9 | 1138.0 | 1156.6 | 1162.6 | 1160.9 | 1158.3 | 1154.9 | 1139.7 | 1126.3 | 1126.7 |
| 40° | 1200.7 | 1203.3 | 1213.7 | 1235.3 | 1235.3 | 1233.2 | 1234.9 | 1232.3 | 1217.2 | 1204.2 | 1204.6 |
| 42.5° | 1291.2 | 1292.5 | 1305.0 | 1327.9 | 1326.2 | 1321.9 | 1323.6 | 1320.1 | 1310.6 | 1295.9 | 1290.7 |
| 45° | 1387.6 | 1392.8 | 1414.5 | 1436.5 | 1433.1 | 1419.2 | 1426.2 | 1425.3 | 1416.6 | 1394.6 | 1395.9 |
| 47.5° | 1504.0 | 1512.7 | 1533.5 | 1559.9 | 1556.0 | 1534.3 | 1542.1 | 1547.3 | 1535.2 | 1511.0 | 1506.6 |
| 50° | 1635.1 | 1640.8 | 1671.5 | 1696.2 | 1692.7 | 1669.8 | 1687.5 | 1688.4 | 1658.1 | 1623.9 | 1623.9 |
| 52.5° | 1774.9 | 1780.5 | 1822.1 | 1860.6 | 1862.7 | 1829.4 | 1843.7 | 1842.8 | 1793.5 | 1748.5 | 1739.9 |
| 55° | 1931.5 | 1934.1 | 1987.8 | 2044.5 | 2056.6 | 2024.1 | 2025.9 | 2008.6 | 1944.5 | 1892.2 | 1887.4 |
| 57.5° | 2093.4 | 2102.9 | 2162.2 | 2235.7 | 2271.6 | 2251.7 | 2242.6 | 2196.3 | 2134.5 | 2074.3 | 2071.3 |
| 60° | 2272.5 | 2272.9 | 2349.9 | 2436.9 | 2509.6 | 2523.0 | 2485.8 | 2423.9 | 2343.9 | 2264.3 | 2260.8 |
| 62.5° | 2396.7 | 2415.3 | 2512.6 | 2659.8 | 2790.0 | 2865.3 | 2767.1 | 2637.3 | 2479.8 | 2351.2 | 2338.3 |
| 65° | 2422.2 | 2434.8 | 2583.2 | 2832.4 | 3098.5 | 3260.8 | 3033.6 | 2757.5 | 2488.8 | 2317.5 | 2308.8 |
| 67.5° | 2215.8 | 2229.2 | 2429.1 | 2811.6 | 3314.9 | 3647.6 | 3206.7 | 2699.6 | 2334.8 | 2122.8 | 2105.9 |
| 70° | 1713.9 | 1729.0 | 1976.1 | 2475.0 | 3266.8 | 3769.2 | 3083.4 | 2354.7 | 1925.5 | 1696.6 | 1665.9 |
| 72.5° | 911.2 | 967.1 | 1178.2 | 1698.7 | 2651.5 | 3245.2 | 2528.2 | 1718.2 | 1241.8 | 1015.1 | 974.4 |
| 75° | 332.7 | 339.7 | 457.4 | 753.3 | 1542.5 | 2225.3 | 1601.8 | 819.5 | 471.2 | 363.9 | 345.3 |
| 77.5° | 137.6 | 137.2 | 150.6 | 227.6 | 560.3 | 1139.7 | 625.2 | 240.6 | 150.1 | 138.9 | 137.2 |
| 80° | 81.3 | 81.3 | 89.6 | 94.8 | 147.5 | 344.0 | 164.9 | 107.3 | 90.0 | 82.2 | 83.5 |
| 82.5° | 36.3 | 38.5 | 56.7 | 59.7 | 71.4 | 94.3 | 79.6 | 68.4 | 58.8 | 40.7 | 36.8 |
| 85° | 19.9 | 17.3 | 29.9 | 31.2 | 34.2 | 35.0 | 37.6 | 37.2 | 34.2 | 19.9 | 20.3 |
| 87.5° | 3.9 | 4.8 | 8.7 | 6.5 | 7.4 | 6.5 | 8.7 | 12.1 | 12.5 | 6.9 | 5.6 |
| 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)