

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: P946343

Luminaire Tested: **GALN-SB2A-740-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946343
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-740-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9945 lumens
Efficiency: N/A
Efficacy: 173.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

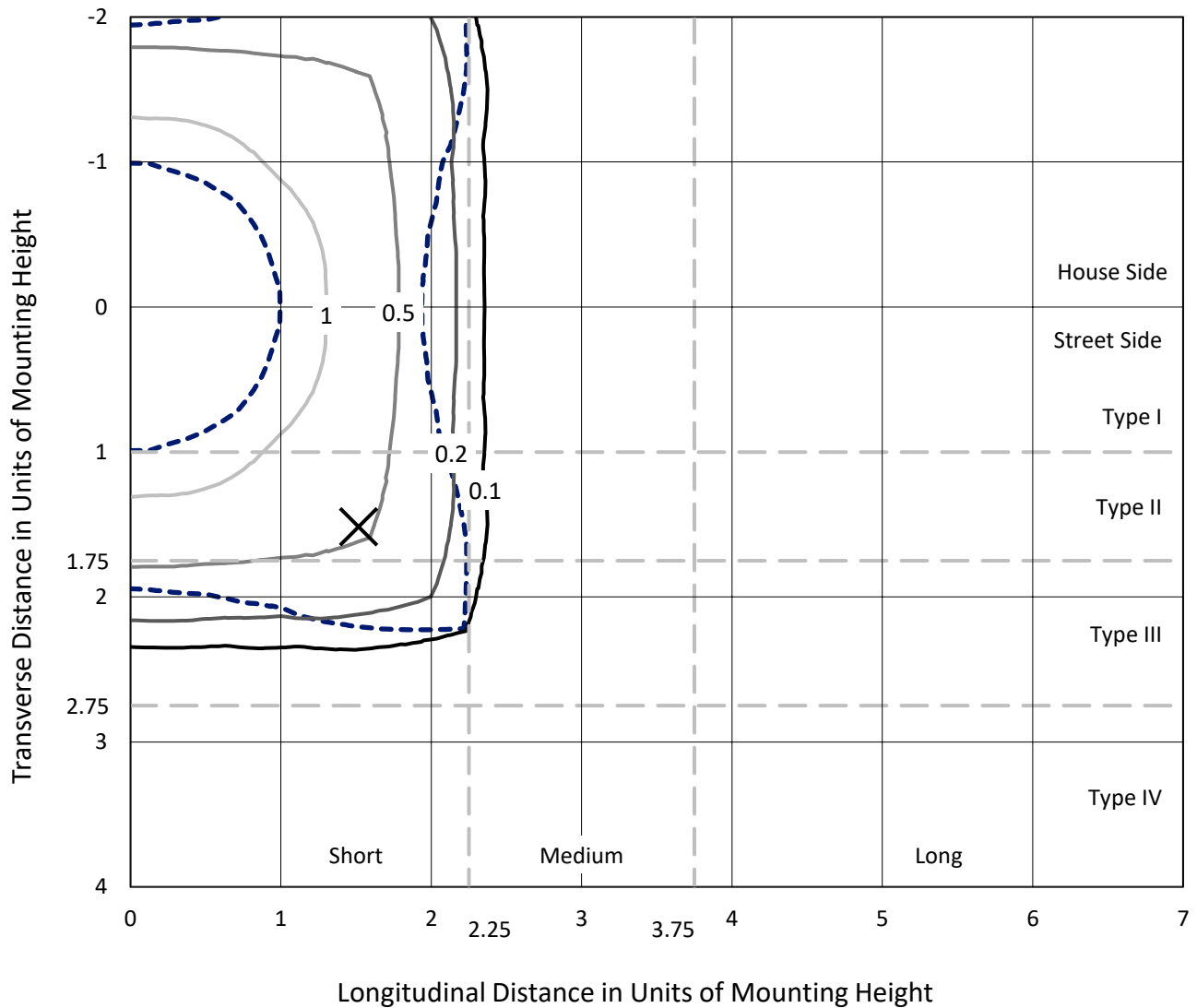
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

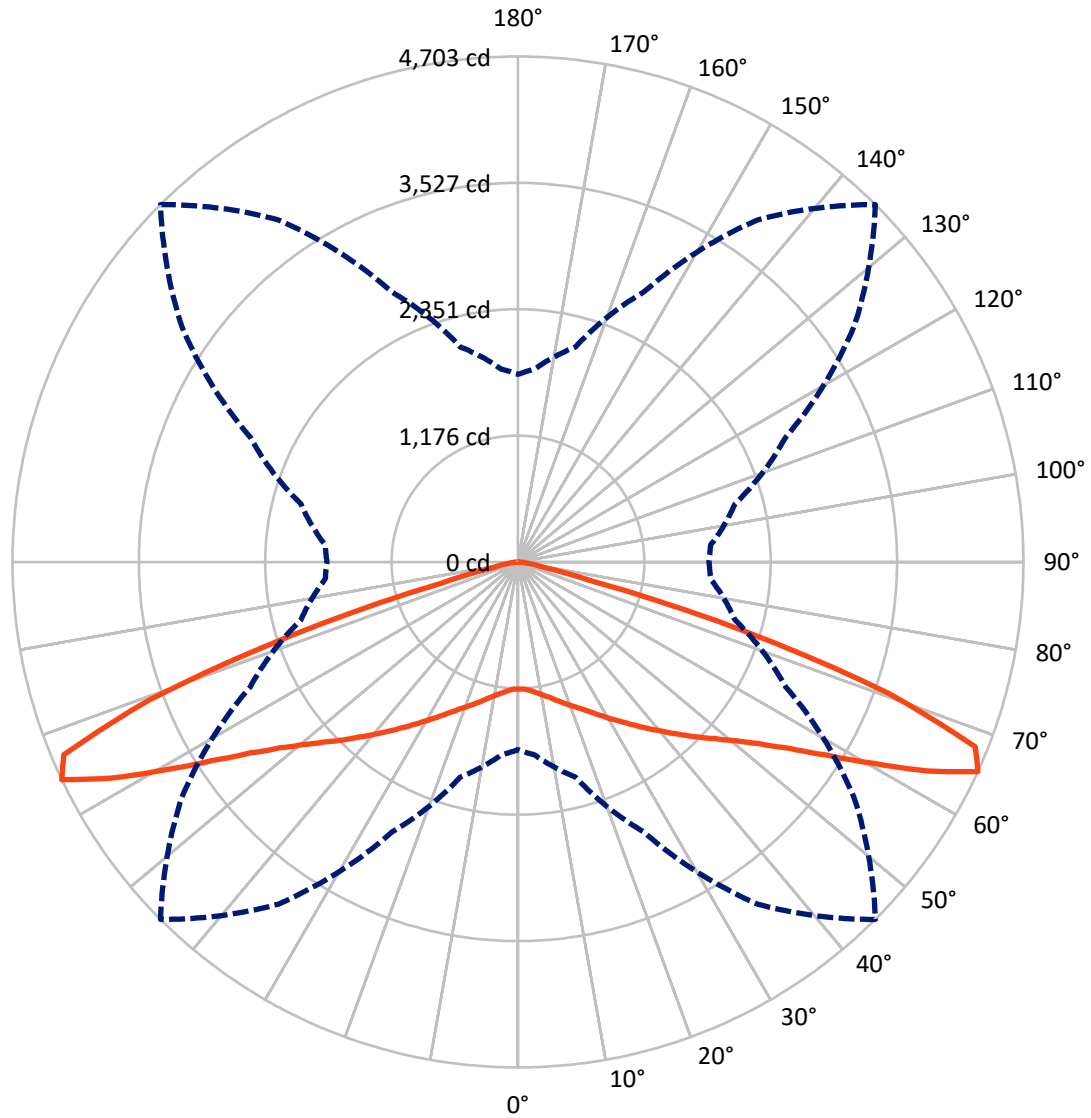
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4972.5	0.0	4972.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4972.5	0.0	4972.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9945.0	0.0	9945.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	1.2
10°-20°	381.1	3.8
20°-30°	719.6	7.2
30°-40°	1178.4	11.8
40°-50°	1827.1	18.4
50°-60°	2699.0	27.1
60°-70°	2569.2	25.8
70°-80°	414.6	4.2
80°-90°	39.1	0.4
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°	9945.0	100.0
0°-180°	9945.0	100.0

Coefficient of Utilization



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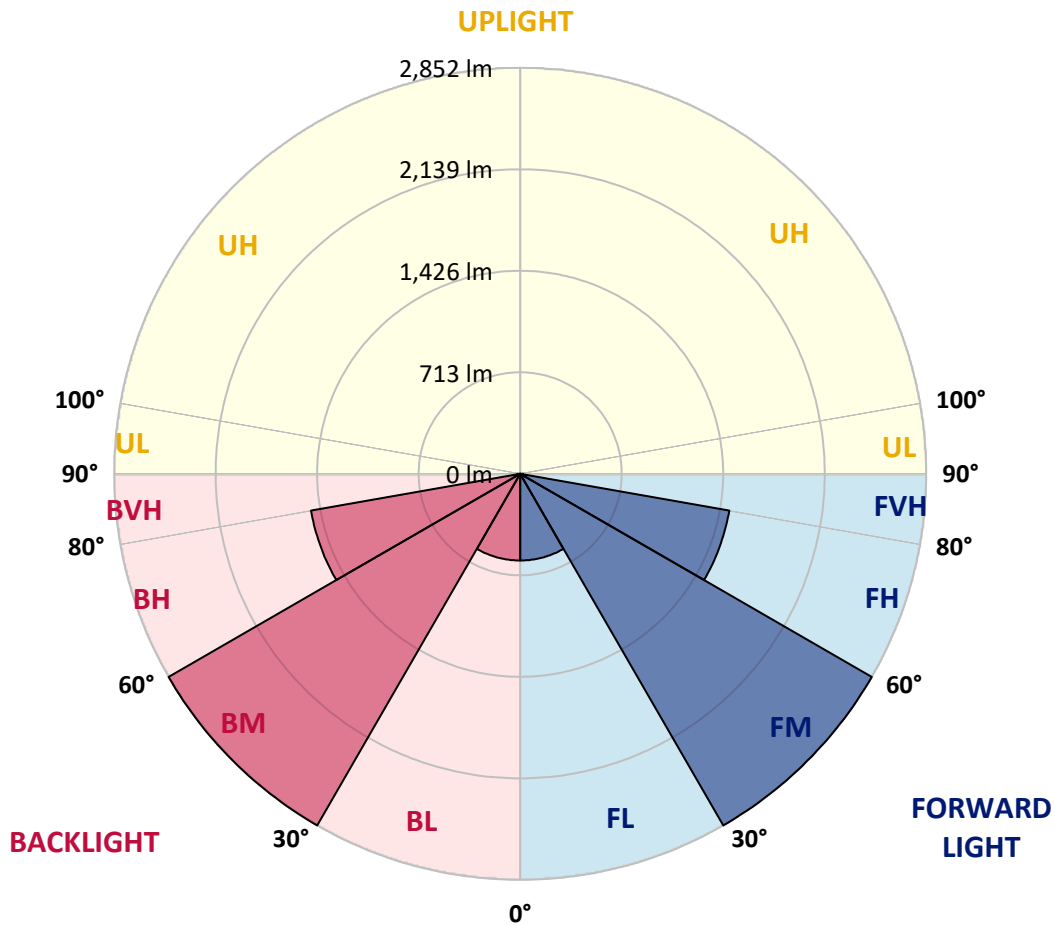
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	608.8	6.1			
FM (30°-60°)	2852.3	28.7			
FH (60°-80°)	1491.9	15.0			G1/1800
FVH (80°-90°)	19.5	0.2			G1/100
BL (0°-30°)	608.8	6.1	B2/1000		
BM (30°-60°)	2852.3	28.7	B3/5000		
BH (60°-80°)	1491.9	15.0	B3/2500		G1/1800
BVH (80°-90°)	19.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1183.6	1183.6	1183.6	1183.6	1183.6	1183.6	1183.6	1183.6	1183.6	1183.6
2.5°	1191.5	1187.5	1190.5	1188.0	1186.0	1184.1	1185.1	1188.5	1190.0	1190.5
5°	1207.5	1204.0	1205.5	1205.5	1202.0	1201.0	1201.5	1204.0	1207.0	1207.0
7.5°	1233.5	1230.0	1233.5	1231.5	1228.5	1227.5	1227.0	1229.0	1233.5	1233.5
10°	1264.9	1260.9	1262.9	1261.9	1258.4	1256.9	1256.4	1259.4	1263.4	1262.9
12.5°	1299.3	1294.8	1297.3	1294.3	1293.3	1291.8	1291.8	1291.3	1293.8	1291.8
15°	1337.7	1334.7	1335.7	1333.7	1335.2	1334.2	1330.3	1328.3	1329.3	1326.3
17.5°	1383.1	1376.2	1379.6	1378.7	1378.7	1380.6	1374.2	1371.7	1373.7	1370.7
20°	1435.5	1428.5	1430.0	1428.0	1425.6	1427.6	1419.6	1421.6	1423.1	1421.1
22.5°	1492.9	1483.9	1483.4	1484.4	1478.9	1479.4	1474.0	1478.9	1481.9	1476.4
25°	1551.8	1542.3	1548.8	1546.3	1539.3	1540.8	1536.8	1541.8	1544.3	1537.3
27.5°	1614.2	1607.7	1613.7	1615.2	1606.7	1612.7	1606.7	1611.2	1613.7	1603.2
30°	1687.0	1680.5	1686.0	1690.0	1680.0	1689.5	1684.5	1687.5	1688.0	1675.5
32.5°	1766.4	1756.4	1770.3	1772.3	1761.4	1772.8	1766.4	1770.3	1772.8	1755.9
35°	1863.2	1850.7	1866.6	1864.1	1854.7	1864.1	1858.2	1864.1	1870.1	1849.7
37.5°	1967.4	1954.5	1971.4	1966.9	1958.0	1964.4	1960.9	1964.9	1974.4	1952.5
40°	2082.2	2066.2	2089.2	2081.2	2072.7	2071.7	2073.7	2076.2	2088.7	2064.2
42.5°	2204.9	2188.0	2222.4	2209.9	2198.0	2190.0	2196.5	2201.5	2213.4	2186.0
45°	2345.2	2325.7	2370.6	2355.6	2336.7	2320.2	2330.7	2338.2	2355.6	2322.7
47.5°	2499.8	2477.9	2525.8	2521.3	2490.4	2454.4	2478.4	2499.8	2512.8	2472.9
50°	2651.0	2634.1	2696.9	2702.4	2664.5	2614.1	2647.5	2680.0	2683.5	2631.1
52.5°	2792.7	2775.8	2867.1	2901.5	2867.6	2807.7	2843.1	2876.1	2849.6	2781.8
55°	2906.0	2892.0	3008.3	3097.1	3108.6	3059.2	3080.1	3079.1	2992.3	2888.0
57.5°	2933.4	2931.4	3078.1	3266.3	3386.0	3392.0	3350.6	3244.8	3057.7	2917.5
60°	2808.7	2821.2	3022.8	3354.6	3673.9	3806.6	3627.5	3325.6	2983.3	2788.7
62.5°	2435.5	2468.4	2711.4	3246.8	3906.4	4283.6	3849.5	3202.9	2678.0	2424.0
65°	1745.4	1802.8	2071.2	2770.8	3885.5	4702.8	3817.6	2748.3	2091.2	1798.3
67.5°	791.9	850.2	1078.3	1897.1	3377.5	4589.0	3369.5	1917.0	1132.2	853.2
70°	286.9	296.9	370.2	759.4	2158.5	3656.4	2250.8	764.9	393.7	316.3
72.5°	173.6	175.1	190.6	271.9	750.0	2219.9	781.9	280.9	194.6	172.6
75°	110.3	109.3	135.7	166.2	266.0	749.0	278.9	166.2	135.2	123.2
77.5°	79.3	81.8	97.3	124.2	167.7	254.0	164.7	118.8	97.3	79.8
80°	59.4	60.9	70.9	96.8	117.8	158.2	104.8	87.8	73.3	49.9
82.5°	42.9	42.9	46.4	70.4	71.9	85.3	56.9	61.9	48.4	35.4
85°	25.4	24.9	28.9	41.9	37.4	31.4	25.9	37.9	30.4	22.0
87.5°	9.0	9.5	9.0	12.0	10.0	8.5	8.0	10.5	8.5	7.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1183.6
1190.5
1207.0
1232.0
1261.9
1292.8
1326.8
1373.2
1425.6
1481.9
1545.3
1611.2
1683.0
1767.3
1862.2
1965.9
2072.2
2200.5
2339.7
2486.4
2637.6
2783.7
2891.5
2908.5
2765.8
2409.0
1776.8
840.8
312.4
175.6
124.2
81.3
51.4
35.4
21.5
7.0
0.0

OF REPORT)