

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: P946409

Luminaire Tested: **GALN-SB2A-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8033 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

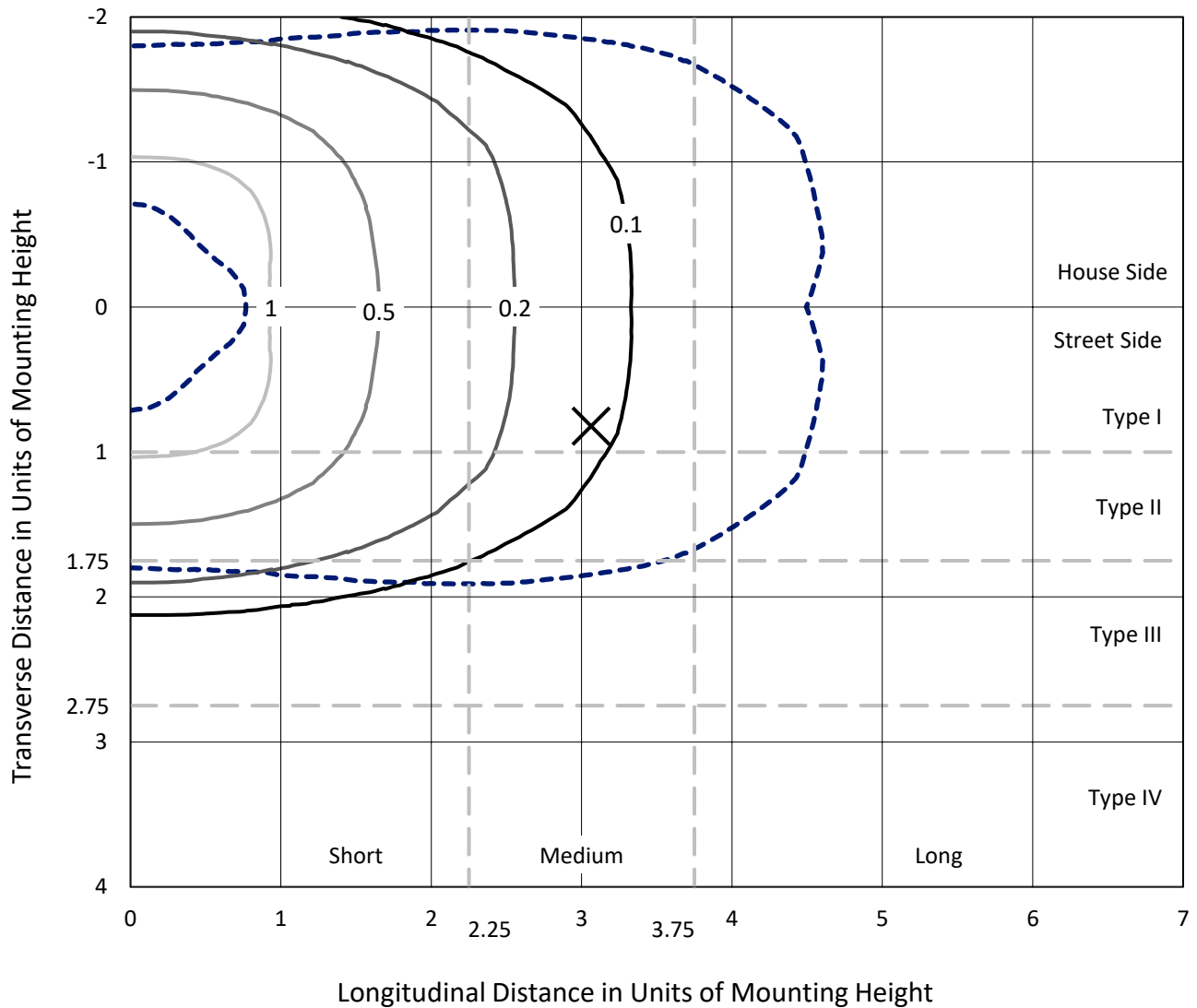
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

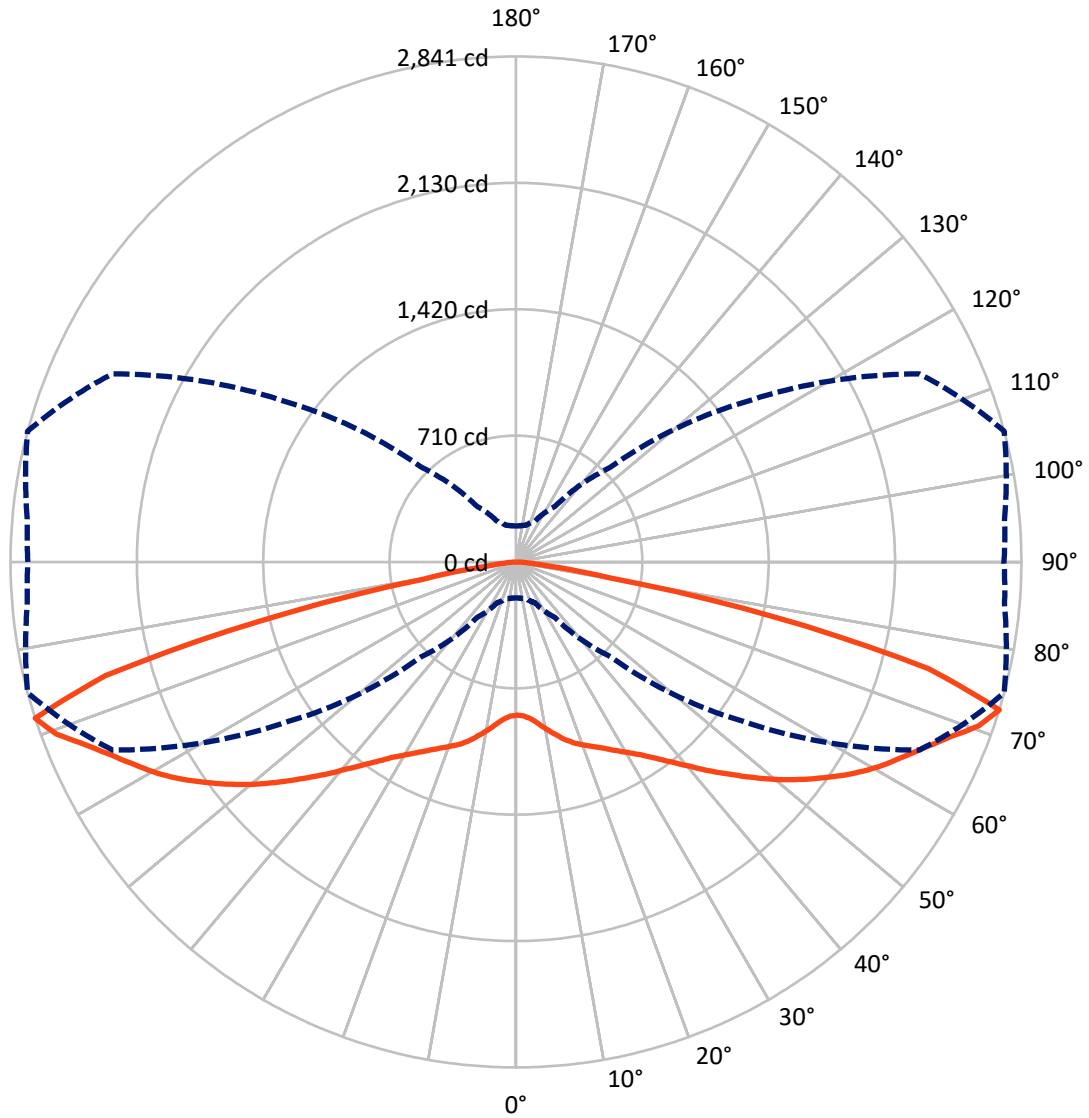
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4016.5	0.0	4016.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4016.5	0.0	4016.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8033.0	0.0	8033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	1.0
10°-20°	278.0	3.5
20°-30°	537.2	6.7
30°-40°	907.1	11.3
40°-50°	1438.5	17.9
50°-60°	1926.0	24.0
60°-70°	1833.0	22.8
70°-80°	956.5	11.9
80°-90°	72.4	0.9
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°	8033.0	100.0
0°-180°	8033.0	100.0

Coefficient of Utilization



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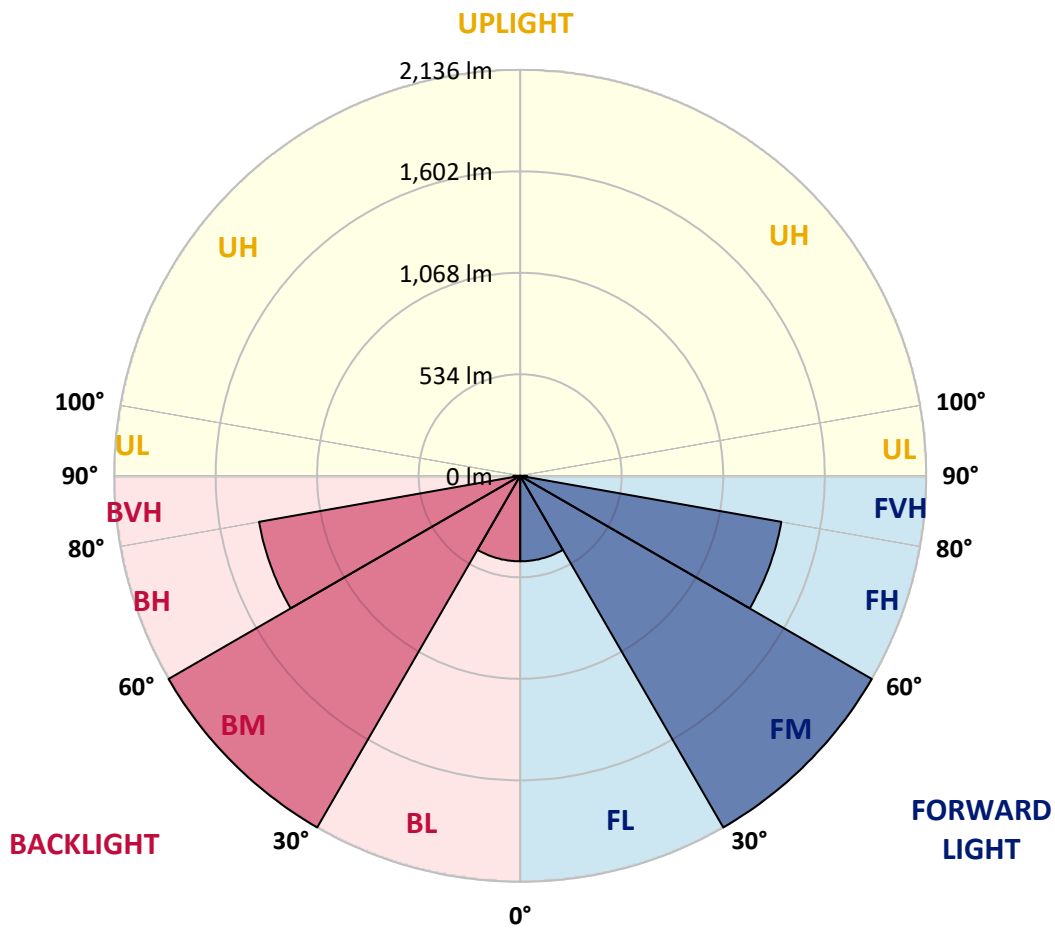
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.8	5.6			
FM (30°-60°)	2135.8	26.6			
FH (60°-80°)	1394.7	17.4			G1/1800
FVH (80°-90°)	36.2	0.5			G1/100
BL (0°-30°)	449.8	5.6	B1/500		
BM (30°-60°)	2135.8	26.6	B2/2500		
BH (60°-80°)	1394.7	17.4	B3/2500		G3/2500
BVH (80°-90°)	36.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5	860.5
2.5°	860.5	859.7	860.5	861.3	860.9	860.9	862.9	864.2	866.6	866.2
5°	854.7	854.3	857.6	861.3	864.2	869.1	875.2	879.8	885.5	886.7
7.5°	851.9	850.6	856.4	862.9	872.0	884.3	896.2	908.5	918.3	921.6
10°	853.9	854.3	862.1	874.4	888.8	906.0	922.8	943.7	957.7	961.0
12.5°	863.3	862.5	875.7	895.3	915.0	936.8	956.5	979.4	994.6	1002.4
15°	880.6	878.9	897.4	926.5	955.2	980.6	996.6	1018.4	1036.0	1045.9
17.5°	901.1	901.9	926.1	963.8	1001.6	1030.3	1045.5	1056.5	1070.1	1078.7
20°	937.2	938.8	965.9	1010.6	1053.7	1086.5	1098.8	1094.7	1098.4	1104.9
22.5°	985.6	986.4	1016.7	1065.1	1110.3	1146.3	1154.5	1137.7	1127.5	1132.0
25°	1041.8	1047.1	1077.4	1127.1	1173.4	1207.9	1211.6	1186.1	1160.7	1161.9
27.5°	1110.3	1115.2	1145.9	1195.2	1242.3	1272.3	1271.9	1237.8	1200.5	1191.1
30°	1184.5	1189.8	1221.4	1272.3	1316.1	1342.4	1336.7	1296.0	1242.7	1225.1
32.5°	1272.7	1276.0	1307.9	1358.8	1399.4	1420.3	1408.4	1358.4	1291.9	1271.9
35°	1379.3	1384.2	1408.0	1456.0	1491.7	1508.9	1488.8	1429.8	1355.1	1332.6
37.5°	1501.1	1497.8	1524.9	1567.6	1597.1	1607.8	1580.3	1510.1	1427.3	1400.6
40°	1628.3	1626.6	1656.2	1697.2	1713.2	1719.7	1679.1	1602.4	1510.6	1481.8
42.5°	1743.5	1742.3	1782.1	1827.6	1846.9	1839.5	1788.2	1700.4	1606.9	1574.1
45°	1835.8	1834.2	1883.0	1946.9	1984.7	1972.4	1903.5	1808.7	1704.6	1670.5
47.5°	1906.8	1907.6	1960.1	2039.2	2105.3	2109.8	2021.2	1919.1	1812.0	1773.5
50°	1958.0	1960.5	2016.7	2104.4	2194.7	2234.5	2141.4	2032.3	1923.2	1879.7
52.5°	1970.7	1975.2	2042.9	2145.9	2252.1	2328.0	2263.6	2140.9	2028.6	1987.1
55°	1903.1	1912.1	1997.8	2142.6	2287.4	2389.5	2371.0	2251.3	2134.8	2092.1
57.5°	1747.6	1760.3	1860.4	2049.5	2279.6	2431.7	2454.3	2357.1	2241.0	2200.0
60°	1529.8	1545.0	1641.0	1847.3	2169.7	2447.3	2512.9	2460.0	2338.6	2298.8
62.5°	1201.3	1221.0	1335.8	1577.8	1937.5	2374.7	2563.0	2553.1	2426.4	2376.8
65°	770.7	791.6	912.6	1198.4	1627.9	2152.4	2578.6	2643.8	2519.1	2449.8
67.5°	464.7	474.1	534.0	726.4	1189.8	1817.3	2446.5	2744.3	2627.4	2541.2
70°	297.4	302.7	338.4	426.5	672.6	1326.0	2119.2	2763.1	2758.6	2635.2
72.5°	201.8	203.4	212.9	252.6	380.6	753.4	1563.1	2501.5	2840.6	2756.2
75°	147.7	156.7	171.8	178.8	216.1	376.5	895.8	1757.5	2394.0	2430.9
77.5°	109.9	110.3	131.2	139.4	154.2	200.6	379.0	981.1	1486.4	1560.6
80°	93.1	88.2	87.8	112.4	116.1	125.1	169.4	338.8	532.4	322.8
82.5°	77.5	72.2	65.2	87.8	79.2	76.7	73.4	137.8	169.4	83.3
85°	54.1	51.7	49.2	57.4	45.1	38.6	35.3	64.4	71.4	35.3
87.5°	23.4	24.2	24.6	25.4	18.9	13.5	13.5	18.0	18.0	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
860.5
865.8
886.7
922.4
964.2
1005.7
1049.6
1082.8
1109.8
1135.3
1164.0
1193.9
1227.1
1276.8
1335.8
1405.6
1491.3
1582.3
1678.3
1784.9
1892.8
1997.8
2104.0
2209.4
2307.5
2382.5
2458.4
2547.8
2634.3
2743.0
2341.5
1392.0
244.0
71.0
31.2
10.3
0.0

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