

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: P940820

Luminaire Tested: **GALN-SB4A-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P940820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4A-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

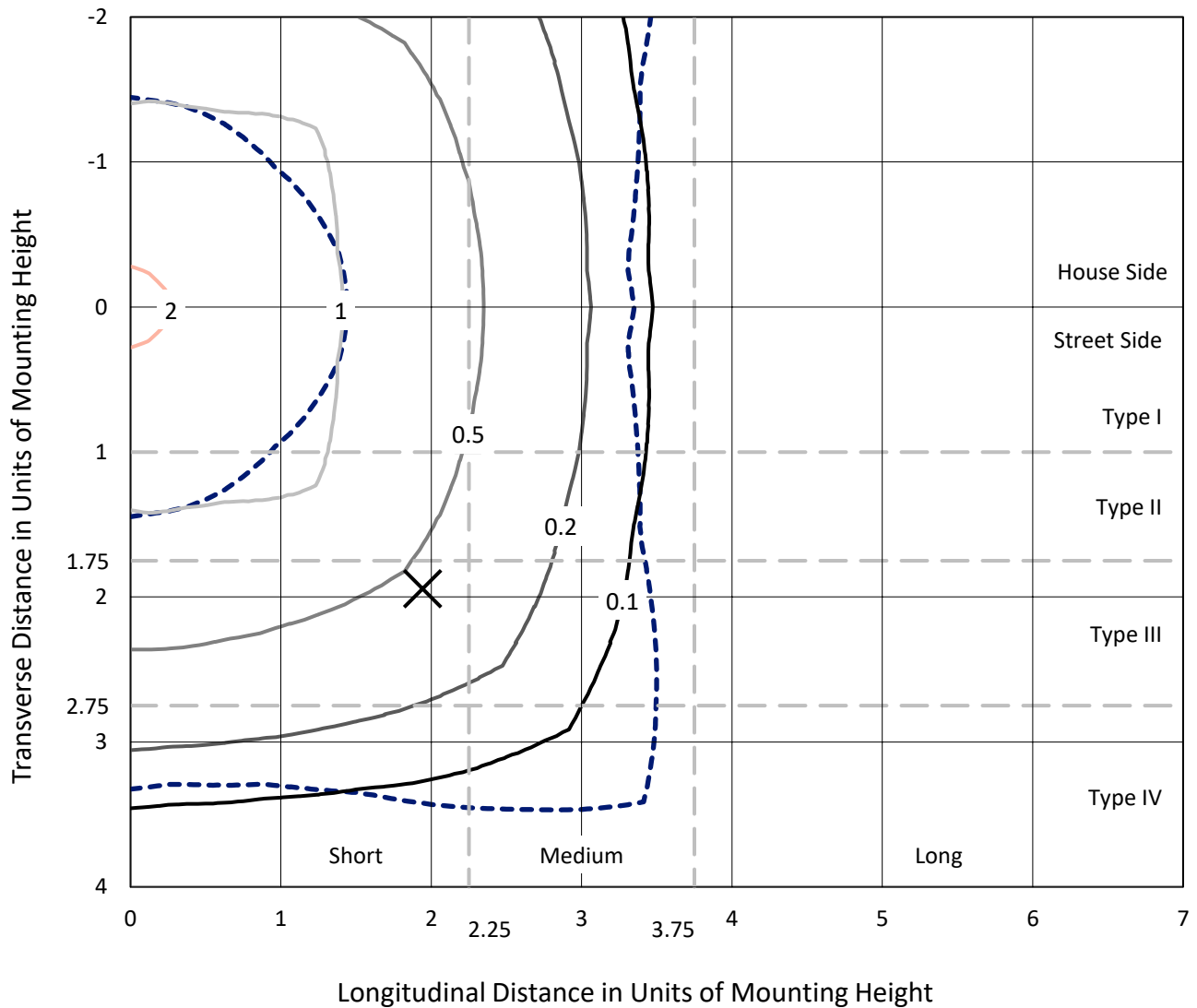
Lumens per Lamp: N/A  
Luminaire Lumens: 15813 lumens  
Efficiency: N/A  
Efficacy: 138.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

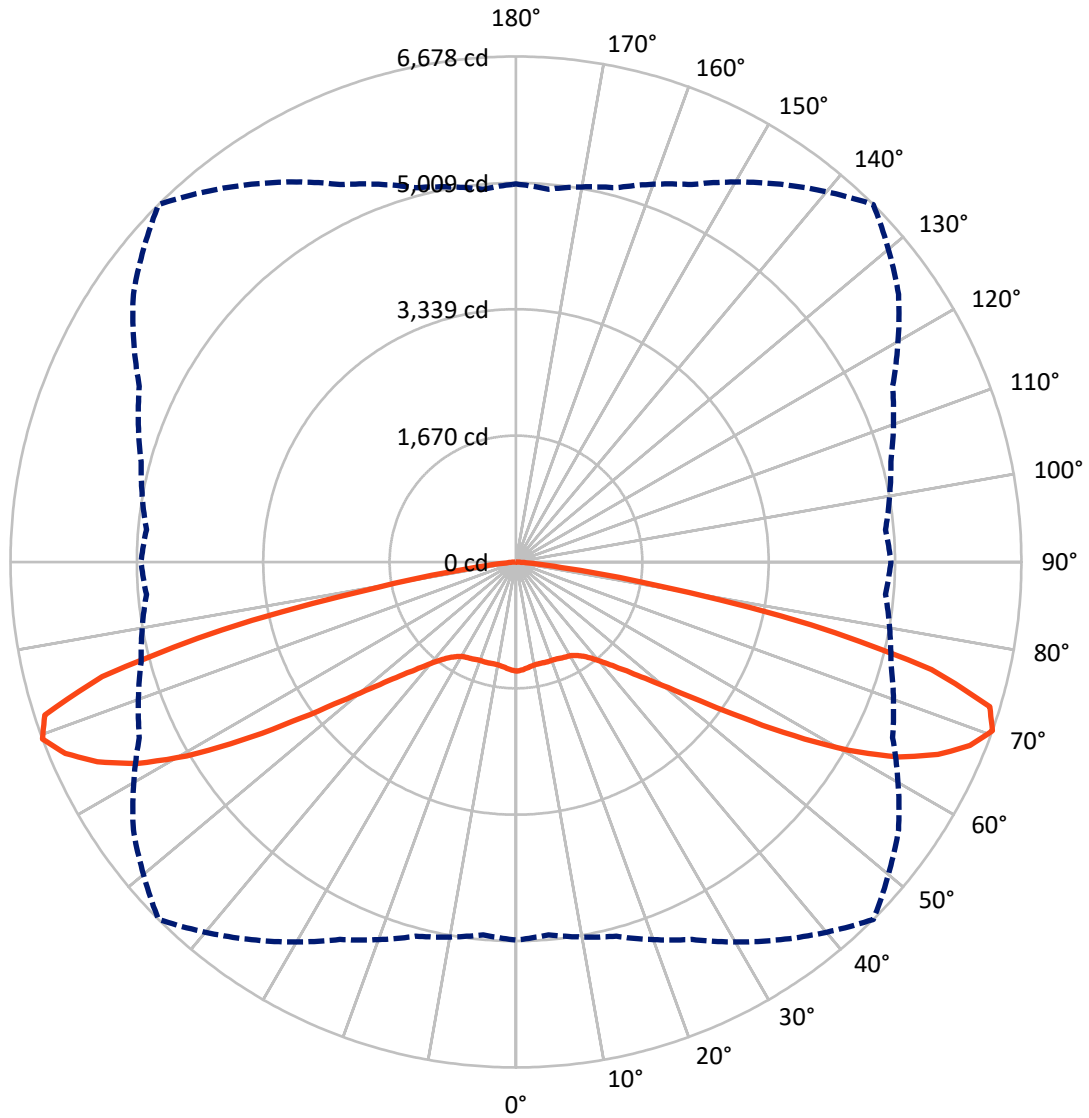
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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
<b>House Side</b>	Lumens	7906.5	0.0	7906.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7906.5	0.0	7906.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15813.0	0.0	15813.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	134.2	0.8
10°-20°	394.0	2.5
20°-30°	655.7	4.1
30°-40°	991.6	6.3
40°-50°	1647.7	10.4
50°-60°	3109.2	19.7
60°-70°	5250.1	33.2
70°-80°	3449.8	21.8
80°-90°	180.7	1.1
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°	15813.0	100.0
0°-180°	15813.0	100.0

**Coefficient of Utilization**



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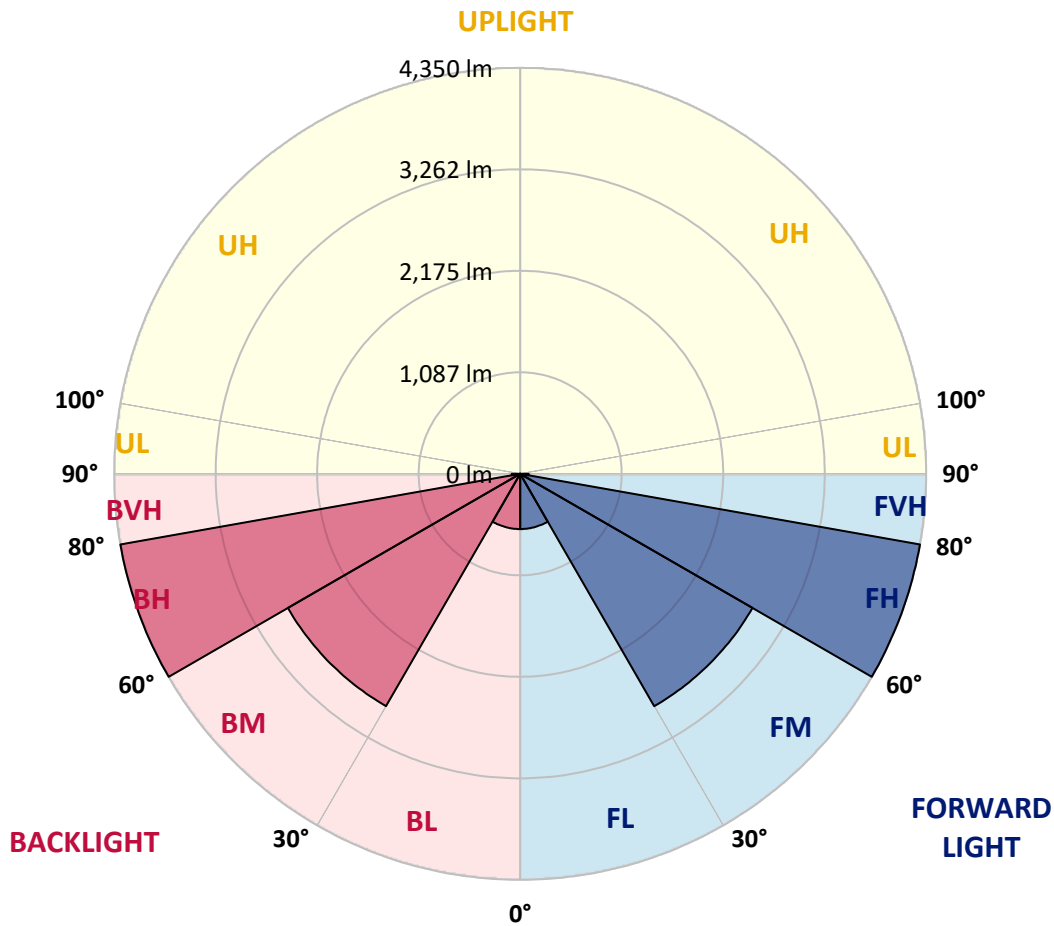
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	591.9	3.7			
FM (30°-60°)	2874.3	18.2			
FH (60°-80°)	4349.9	27.5			G2/5000
FVH (80°-90°)	90.4	0.6			G1/100
BL (0°-30°)	591.9	3.7	B2/1000		
BM (30°-60°)	2874.3	18.2	B3/5000		
BH (60°-80°)	4349.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	90.4	0.6			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°
0°	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5	1442.5
2.5°	1433.4	1437.5	1435.9	1432.6	1432.6	1430.1	1432.6	1434.2	1436.7	1438.4
5°	1414.5	1417.8	1417.0	1414.5	1415.3	1412.9	1414.5	1417.0	1418.6	1419.5
7.5°	1398.1	1401.4	1399.7	1395.6	1395.6	1393.1	1394.0	1396.4	1398.9	1399.7
10°	1394.0	1397.3	1392.3	1385.8	1383.3	1380.0	1380.8	1383.3	1388.2	1390.7
12.5°	1395.6	1398.1	1393.1	1383.3	1380.8	1377.5	1377.5	1380.0	1386.6	1389.9
15°	1400.5	1403.0	1395.6	1384.9	1382.5	1380.0	1379.2	1382.5	1389.9	1395.6
17.5°	1409.6	1412.1	1400.5	1385.8	1382.5	1383.3	1382.5	1384.9	1396.4	1407.1
20°	1417.8	1419.5	1403.8	1385.8	1382.5	1383.3	1382.5	1387.4	1402.2	1417.0
22.5°	1420.3	1421.9	1407.1	1391.5	1389.0	1389.9	1389.0	1394.0	1407.9	1422.7
25°	1421.1	1423.6	1412.1	1399.7	1403.8	1405.5	1403.8	1404.7	1415.3	1428.5
27.5°	1433.4	1436.7	1426.0	1415.3	1417.8	1417.0	1419.5	1421.9	1430.1	1443.3
30°	1458.9	1461.4	1452.3	1441.6	1440.0	1434.2	1441.6	1449.9	1458.9	1470.4
32.5°	1500.8	1505.8	1494.2	1482.7	1475.3	1472.1	1477.8	1491.8	1504.1	1516.4
35°	1570.7	1574.0	1563.3	1541.9	1528.8	1528.8	1533.7	1551.8	1571.5	1587.1
37.5°	1669.3	1673.4	1654.5	1629.0	1609.3	1609.3	1615.9	1634.8	1664.4	1686.6
40°	1789.3	1795.1	1771.2	1744.9	1726.0	1722.7	1731.0	1752.3	1780.3	1808.2
42.5°	1934.0	1940.5	1909.3	1886.3	1871.5	1871.5	1875.6	1895.3	1920.8	1955.3
45°	2118.9	2130.4	2087.7	2064.7	2050.7	2054.0	2056.4	2073.7	2096.7	2136.2
47.5°	2339.2	2350.7	2305.5	2281.6	2279.2	2294.8	2284.9	2297.3	2309.6	2354.8
50°	2589.0	2608.8	2577.5	2575.9	2580.8	2609.6	2586.6	2593.1	2579.2	2607.9
52.5°	2894.8	2923.6	2917.8	2927.7	2982.7	3041.9	2989.3	2966.3	2913.7	2922.7
55°	3265.5	3309.0	3317.3	3376.4	3501.4	3622.2	3510.4	3417.5	3305.7	3285.2
57.5°	3687.1	3721.6	3761.1	3881.9	4115.3	4329.9	4115.3	3909.9	3734.0	3692.1
60°	4140.8	4183.6	4221.4	4399.7	4746.6	5048.2	4740.0	4413.7	4181.1	4124.4
62.5°	4628.2	4683.3	4709.6	4907.7	5312.0	5672.0	5317.8	4922.5	4664.4	4603.6
65°	5095.9	5141.1	5170.7	5381.9	5768.2	6129.0	5794.5	5404.9	5139.4	5059.7
67.5°	5313.7	5338.3	5410.7	5649.9	6057.5	6469.3	6126.6	5675.3	5378.6	5238.9
70°	4994.8	4944.7	5118.9	5501.9	6092.0	6678.1	6171.0	5490.4	5127.1	4900.3
72.5°	3859.7	3773.4	4075.9	4731.0	5697.5	6544.9	5737.0	4767.9	4264.1	3803.8
75°	2100.0	2002.2	2419.7	3248.2	4543.6	5672.9	4647.9	3341.1	2694.2	2084.4
77.5°	592.6	555.6	892.6	1571.5	2732.9	3983.0	2838.1	1606.0	1058.6	627.9
80°	181.6	175.9	238.4	473.4	1160.5	1907.7	1115.3	479.2	303.3	191.5
82.5°	107.7	98.6	118.4	172.6	295.9	599.2	287.7	180.0	144.7	97.0
85°	61.6	57.5	69.9	83.8	99.5	127.4	83.0	85.5	77.3	51.8
87.5°	25.5	23.0	27.1	26.3	23.0	29.6	22.2	26.3	31.2	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1442.5
1437.5
1419.5
1399.7
1390.7
1390.7
1396.4
1407.1
1417.8
1422.7
1427.7
1440.0
1467.9
1511.5
1581.4
1678.4
1799.2
1952.9
2134.5
2341.6
2590.7
2892.3
3253.1
3662.5
4075.1
4554.2
5020.3
5240.5
4954.5
3918.1
2220.0
697.8
202.2
105.2
54.2
18.9
0.0

OF REPORT)