

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: P940850

Luminaire Tested: **GALN-SB4A-840-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940850
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-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17394 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

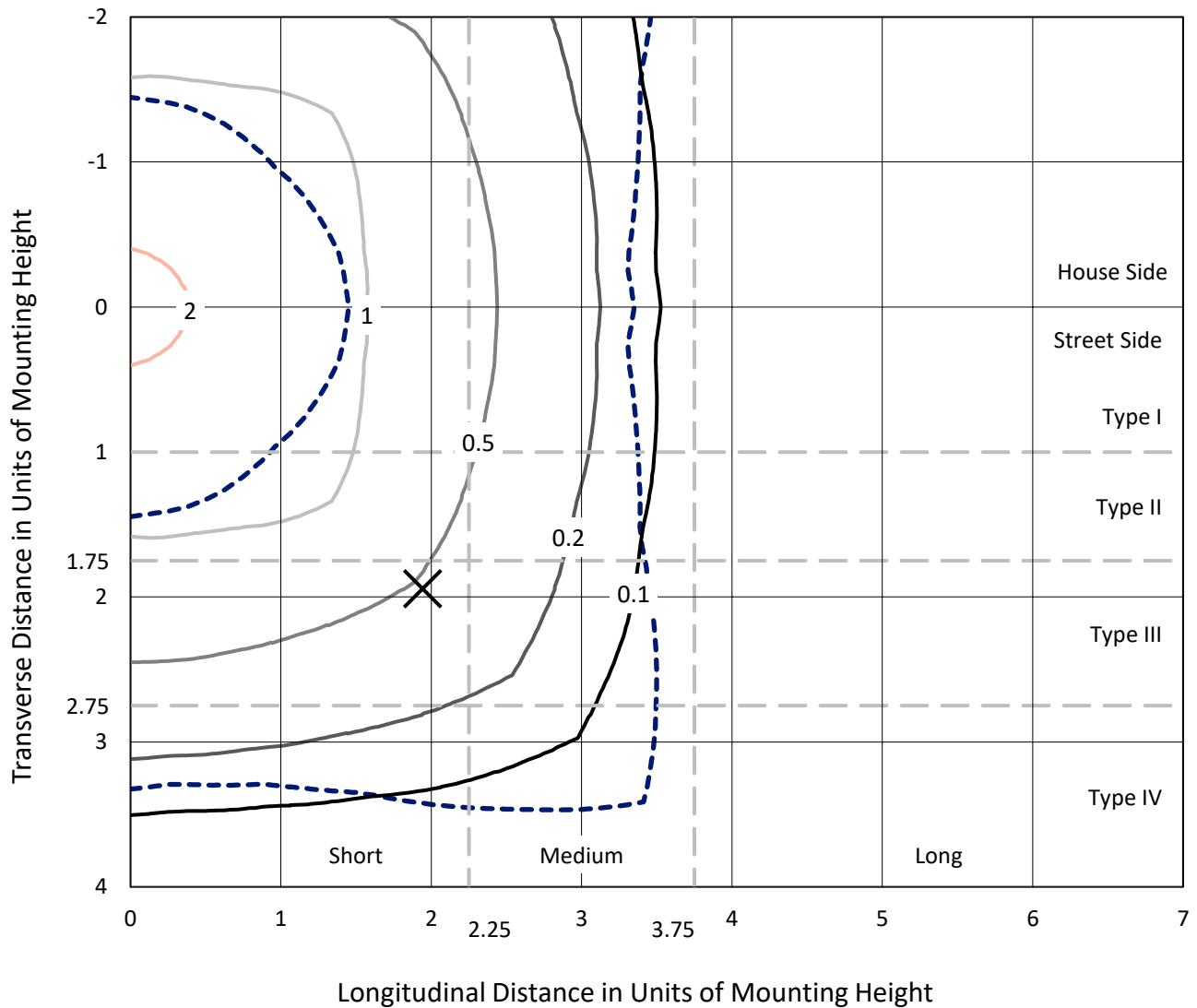
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

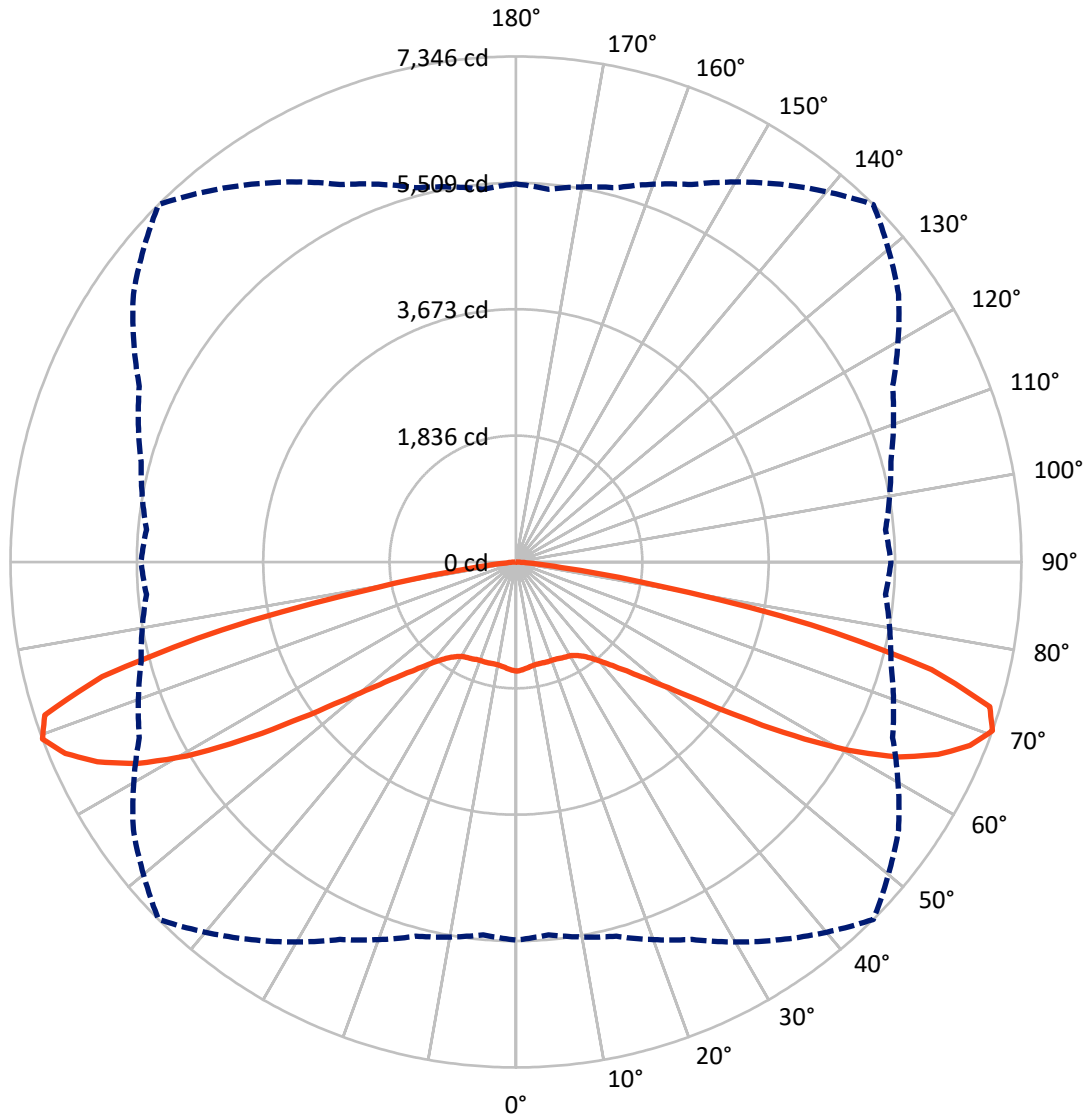
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	8697.0	0.0	8697.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8697.0	0.0	8697.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17394.0	0.0	17394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	0.8
10°-20°	433.4	2.5
20°-30°	721.2	4.1
30°-40°	1090.7	6.3
40°-50°	1812.5	10.4
50°-60°	3420.1	19.7
60°-70°	5775.0	33.2
70°-80°	3794.7	21.8
80°-90°	198.8	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°	17394.0	100.0
0°-180°	17394.0	100.0

Coefficient of Utilization



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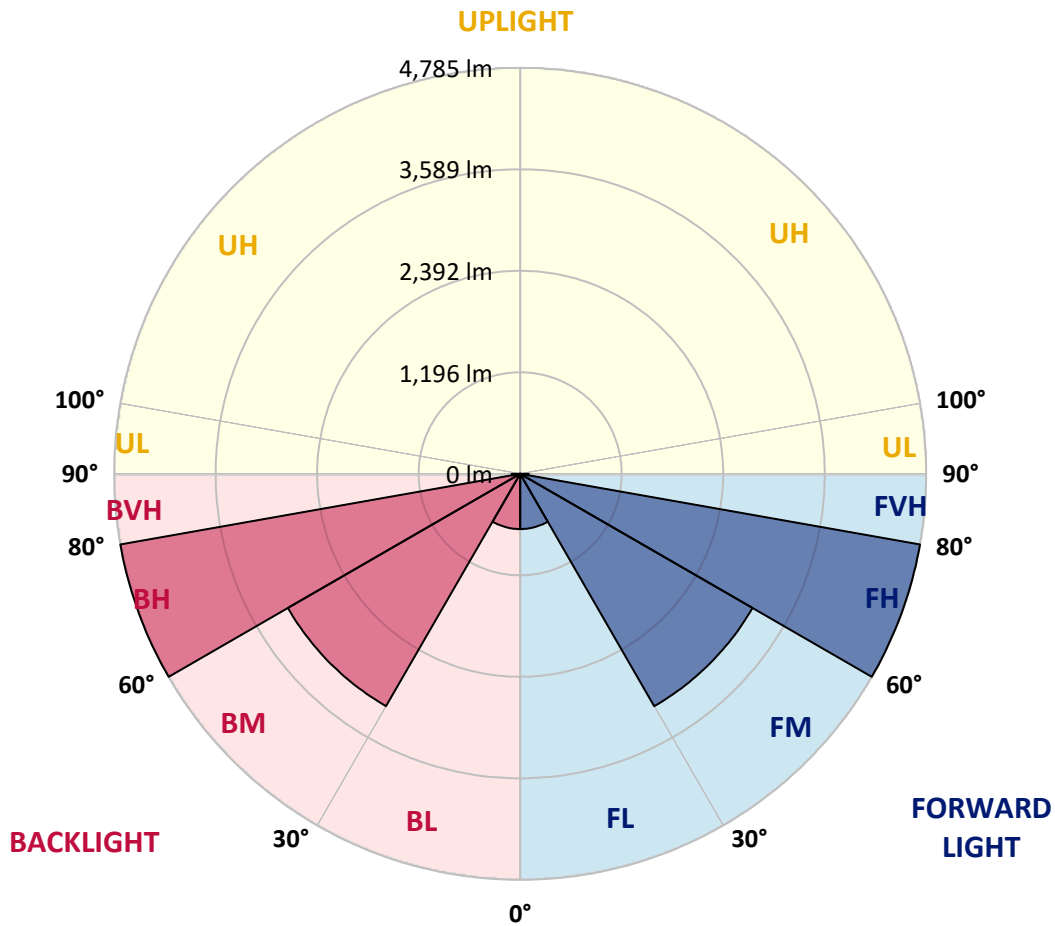
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	651.1	3.7			
FM (30°-60°)	3161.6	18.2			
FH (60°-80°)	4784.9	27.5			G2/5000
FVH (80°-90°)	99.4	0.6			G1/100
BL (0°-30°)	651.1	3.7	B2/1000		
BM (30°-60°)	3161.6	18.2	B3/5000		
BH (60°-80°)	4784.9	27.5	B4/5000		G2/5000
BVH (80°-90°)	99.4	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°	1586.7	1586.7	1586.7	1586.7	1586.7	1586.7	1586.7	1586.7	1586.7	1586.7
2.5°	1576.7	1581.3	1579.5	1575.8	1575.8	1573.1	1575.8	1577.6	1580.4	1582.2
5°	1555.9	1559.6	1558.7	1555.9	1556.8	1554.1	1555.9	1558.7	1560.5	1561.4
7.5°	1537.9	1541.5	1539.7	1535.1	1535.1	1532.4	1533.3	1536.1	1538.8	1539.7
10°	1533.3	1537.0	1531.5	1524.3	1521.6	1518.0	1518.9	1521.6	1527.0	1529.7
12.5°	1535.1	1537.9	1532.4	1521.6	1518.9	1515.3	1515.3	1518.0	1525.2	1528.8
15°	1540.6	1543.3	1535.1	1523.4	1520.7	1518.0	1517.1	1520.7	1528.8	1535.1
17.5°	1550.5	1553.2	1540.6	1524.3	1520.7	1521.6	1520.7	1523.4	1536.1	1547.8
20°	1559.6	1561.4	1544.2	1524.3	1520.7	1521.6	1520.7	1526.1	1542.4	1558.7
22.5°	1562.3	1564.1	1547.8	1530.6	1527.9	1528.8	1527.9	1533.3	1548.7	1565.0
25°	1563.2	1565.9	1553.2	1539.7	1544.2	1546.0	1544.2	1545.1	1556.8	1571.3
27.5°	1576.7	1580.4	1568.6	1556.8	1559.6	1558.7	1561.4	1564.1	1573.1	1587.6
30°	1604.8	1607.5	1597.5	1585.8	1584.0	1577.6	1585.8	1594.8	1604.8	1617.4
32.5°	1650.9	1656.3	1643.6	1631.0	1622.8	1619.2	1625.6	1640.9	1654.5	1668.1
35°	1727.7	1731.3	1719.6	1696.1	1681.6	1681.6	1687.0	1706.9	1728.6	1745.8
37.5°	1836.2	1840.7	1819.9	1791.9	1770.2	1770.2	1777.4	1798.2	1830.8	1855.2
40°	1968.2	1974.5	1948.3	1919.4	1898.6	1895.0	1904.0	1927.5	1958.3	1989.0
42.5°	2127.3	2134.6	2100.2	2074.9	2058.6	2058.6	2063.1	2084.8	2112.9	2150.8
45°	2330.8	2343.4	2296.4	2271.1	2255.7	2259.3	2262.0	2281.0	2306.3	2349.7
47.5°	2573.0	2585.7	2536.0	2509.8	2507.0	2524.2	2513.4	2526.9	2540.5	2590.2
50°	2847.9	2869.6	2835.2	2833.4	2838.9	2870.5	2845.2	2852.4	2837.0	2868.7
52.5°	3184.2	3215.9	3209.5	3220.4	3281.0	3346.0	3288.2	3262.9	3205.0	3215.0
55°	3592.0	3639.9	3648.9	3714.0	3851.4	3984.3	3861.4	3759.2	3636.3	3613.7
57.5°	4055.8	4093.7	4137.1	4270.0	4526.8	4762.8	4526.8	4300.8	4107.3	4061.2
60°	4554.8	4601.8	4643.4	4839.6	5221.1	5552.9	5213.9	4855.0	4599.1	4536.7
62.5°	5090.9	5151.5	5180.5	5398.3	5843.2	6239.1	5849.5	5414.6	5130.7	5063.8
65°	5605.4	5655.1	5687.6	5920.0	6344.9	6741.8	6373.9	5945.3	5653.3	5565.6
67.5°	5845.0	5872.1	5951.6	6214.7	6663.2	7116.1	6739.1	6242.8	5916.4	5762.7
70°	5494.2	5439.0	5630.7	6052.0	6701.1	7345.8	6787.9	6039.3	5639.7	5390.2
72.5°	4245.6	4150.7	4483.4	5204.0	6267.2	7199.3	6310.6	5244.6	4690.4	4184.1
75°	2310.0	2202.4	2661.6	3573.0	4997.8	6240.0	5112.6	3675.1	2963.6	2292.8
77.5°	651.9	611.2	981.8	1728.6	3006.1	4381.2	3121.8	1766.6	1164.5	690.7
80°	199.8	193.5	262.2	520.8	1276.6	2098.4	1226.9	527.1	333.6	210.7
82.5°	118.4	108.5	130.2	189.9	325.5	659.1	316.4	198.0	159.1	106.7
85°	67.8	63.3	76.8	92.2	109.4	140.1	91.3	94.0	85.0	57.0
87.5°	28.0	25.3	29.8	28.9	25.3	32.5	24.4	28.9	34.4	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1586.7
1581.3
1561.4
1539.7
1529.7
1529.7
1536.1
1547.8
1559.6
1565.0
1570.4
1584.0
1614.7
1662.6
1739.5
1846.2
1979.1
2148.1
2347.9
2575.8
2849.7
3181.5
3578.4
4028.6
4482.5
5009.6
5522.2
5764.5
5449.9
4309.8
2442.0
767.6
222.4
115.7
59.7
20.8
0.0

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