

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: P940350

Luminaire Tested: **GALN-SB3B-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940350
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-SB3B-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16347 lumens
Efficiency: N/A
Efficacy: 149.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

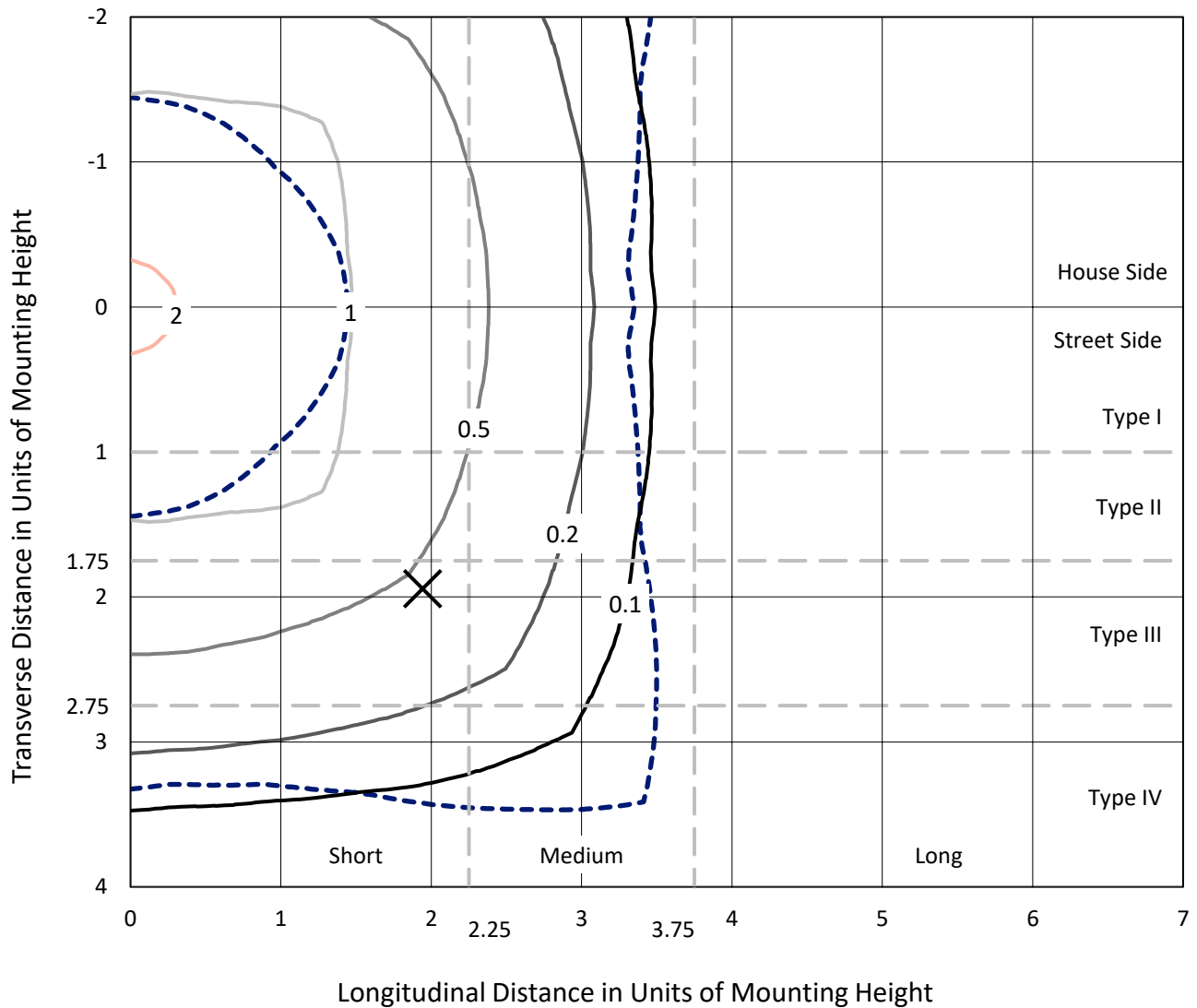
Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

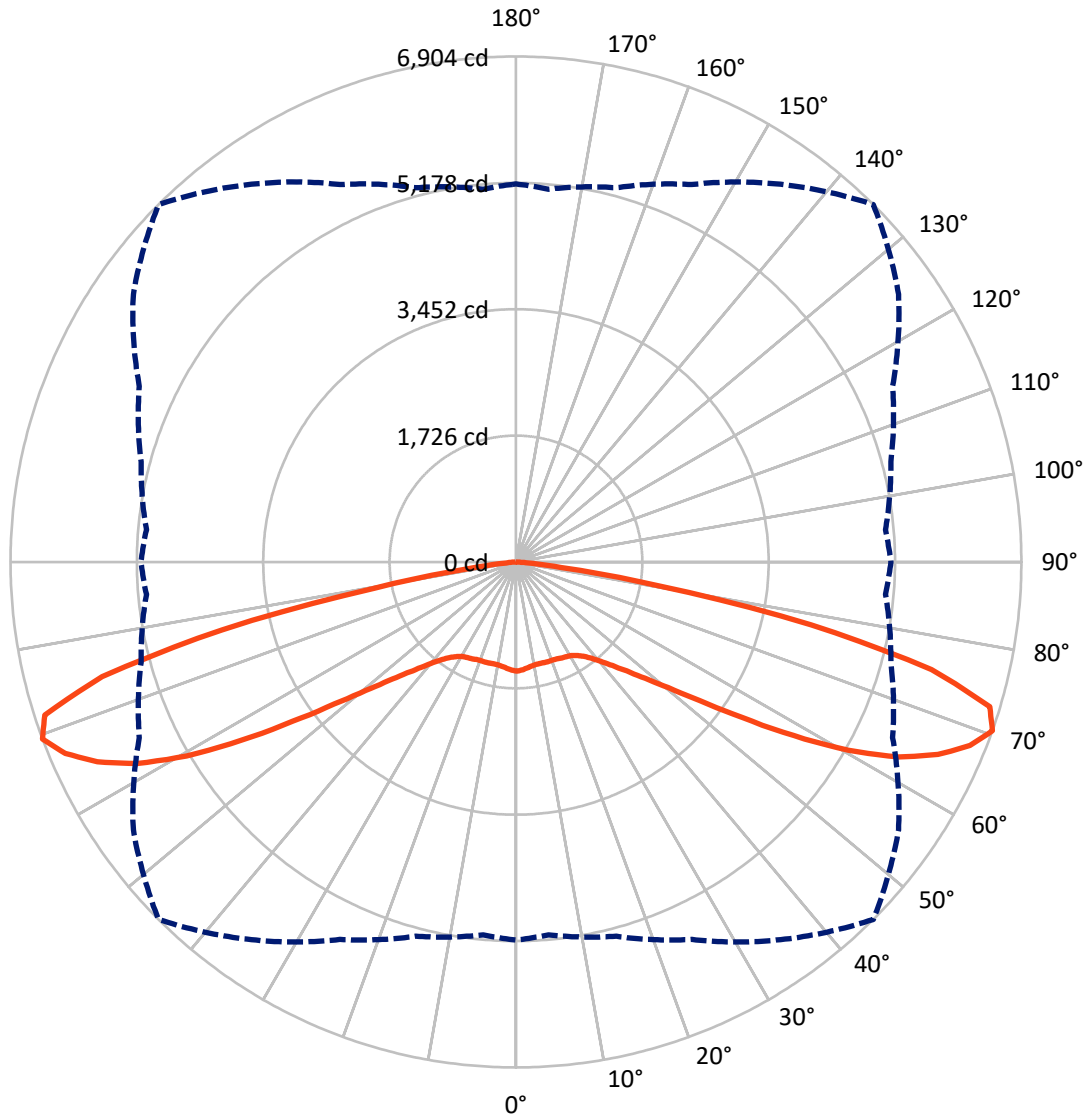
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	8173.5	0.0	8173.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8173.5	0.0	8173.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16347.0	0.0	16347.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	0.8
10°-20°	407.3	2.5
20°-30°	677.8	4.1
30°-40°	1025.1	6.3
40°-50°	1703.4	10.4
50°-60°	3214.2	19.7
60°-70°	5427.4	33.2
70°-80°	3566.3	21.8
80°-90°	186.8	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°	16347.0	100.0
0°-180°	16347.0	100.0

Coefficient of Utilization



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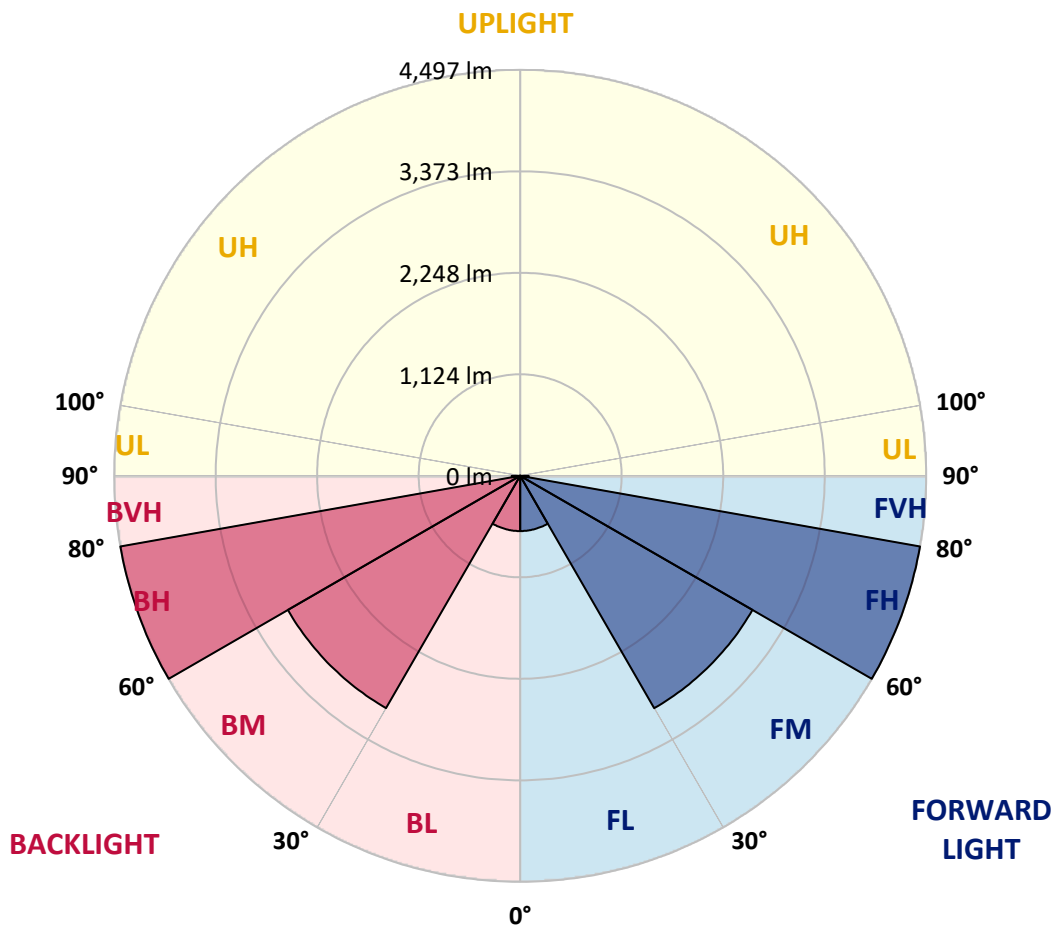
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.9	3.7			
FM (30°-60°)	2971.3	18.2			
FH (60°-80°)	4496.8	27.5			G2/5000
FVH (80°-90°)	93.4	0.6			G1/100
BL (0°-30°)	611.9	3.7	B2/1000		
BM (30°-60°)	2971.3	18.2	B3/5000		
BH (60°-80°)	4496.8	27.5	B4/5000		G2/5000
BVH (80°-90°)	93.4	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°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1481.8	1486.1	1484.4	1481.0	1481.0	1478.4	1481.0	1482.7	1485.2	1486.9
5°	1462.3	1465.7	1464.8	1462.3	1463.1	1460.6	1462.3	1464.8	1466.5	1467.4
7.5°	1445.3	1448.7	1447.0	1442.7	1442.7	1440.2	1441.0	1443.6	1446.1	1447.0
10°	1441.0	1444.4	1439.3	1432.5	1430.0	1426.6	1427.5	1430.0	1435.1	1437.6
12.5°	1442.7	1445.3	1440.2	1430.0	1427.5	1424.1	1424.1	1426.6	1433.4	1436.8
15°	1447.8	1450.4	1442.7	1431.7	1429.1	1426.6	1425.8	1429.1	1436.8	1442.7
17.5°	1457.2	1459.7	1447.8	1432.5	1429.1	1430.0	1429.1	1431.7	1443.6	1454.6
20°	1465.7	1467.4	1451.2	1432.5	1429.1	1430.0	1429.1	1434.2	1449.5	1464.8
22.5°	1468.2	1469.9	1454.6	1438.5	1435.9	1436.8	1435.9	1441.0	1455.5	1470.8
25°	1469.1	1471.6	1459.7	1447.0	1451.2	1452.9	1451.2	1452.1	1463.1	1476.7
27.5°	1481.8	1485.2	1474.2	1463.1	1465.7	1464.8	1467.4	1469.9	1478.4	1492.0
30°	1508.2	1510.7	1501.4	1490.3	1488.6	1482.7	1490.3	1498.8	1508.2	1520.1
32.5°	1551.5	1556.6	1544.7	1532.8	1525.2	1521.8	1527.7	1542.2	1554.9	1567.6
35°	1623.7	1627.1	1616.1	1594.0	1580.4	1580.4	1585.5	1604.2	1624.6	1640.7
37.5°	1725.7	1729.9	1710.4	1684.1	1663.7	1663.7	1670.5	1690.0	1720.6	1743.5
40°	1849.7	1855.7	1831.0	1803.9	1784.3	1780.9	1789.4	1811.5	1840.4	1869.3
42.5°	1999.3	2006.1	1973.8	1950.0	1934.7	1934.7	1939.0	1959.3	1985.7	2021.4
45°	2190.5	2202.4	2158.2	2134.4	2119.9	2123.3	2125.9	2143.7	2167.5	2208.3
47.5°	2418.2	2430.1	2383.3	2358.7	2356.1	2372.3	2362.1	2374.8	2387.6	2434.3
50°	2676.5	2696.9	2664.6	2662.9	2668.0	2697.7	2673.9	2680.7	2666.3	2696.0
52.5°	2992.5	3022.3	3016.3	3026.5	3083.5	3144.6	3090.3	3066.5	3012.1	3021.4
55°	3375.7	3420.8	3429.3	3490.5	3619.6	3744.5	3629.0	3532.9	3417.4	3396.1
57.5°	3811.6	3847.3	3888.1	4013.0	4254.3	4476.1	4254.3	4041.9	3860.1	3816.7
60°	4280.7	4324.8	4363.9	4548.3	4906.9	5218.7	4900.1	4562.7	4322.3	4263.7
62.5°	4784.5	4841.4	4868.6	5073.4	5491.4	5863.6	5497.4	5088.7	4821.9	4759.0
65°	5268.0	5314.7	5345.3	5563.7	5963.0	6336.0	5990.2	5587.4	5313.0	5230.6
67.5°	5493.1	5518.6	5593.4	5840.6	6262.1	6687.8	6333.5	5867.0	5560.3	5415.8
70°	5163.5	5111.6	5291.8	5687.7	6297.8	6903.6	6379.3	5675.8	5300.3	5065.7
72.5°	3990.1	3900.8	4213.5	4890.7	5889.9	6765.9	5930.7	4929.0	4408.1	3932.3
75°	2170.9	2069.8	2501.4	3357.9	4697.0	5864.4	4804.9	3453.9	2785.2	2154.8
77.5°	612.6	574.4	922.7	1624.6	2825.2	4117.5	2933.9	1660.3	1094.4	649.1
80°	187.8	181.8	246.4	489.4	1199.7	1972.1	1153.0	495.4	313.5	198.0
82.5°	111.3	102.0	122.4	178.4	305.9	619.4	297.4	186.1	149.5	100.3
85°	63.7	59.5	72.2	86.7	102.8	131.7	85.8	88.4	79.9	53.5
87.5°	26.3	23.8	28.0	27.2	23.8	30.6	22.9	27.2	32.3	21.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1491.2
1486.1
1467.4
1447.0
1437.6
1437.6
1443.6
1454.6
1465.7
1470.8
1475.9
1488.6
1517.5
1562.5
1634.8
1735.0
1859.9
2018.8
2206.6
2420.7
2678.2
2990.0
3363.0
3786.1
4212.7
4708.0
5189.8
5417.5
5121.8
4050.4
2295.0
721.4
209.0
108.8
56.1
19.5
0.0

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