

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: P957176

Luminaire Tested: **GALN-SB9C-835-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-835-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48737 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 449.8
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

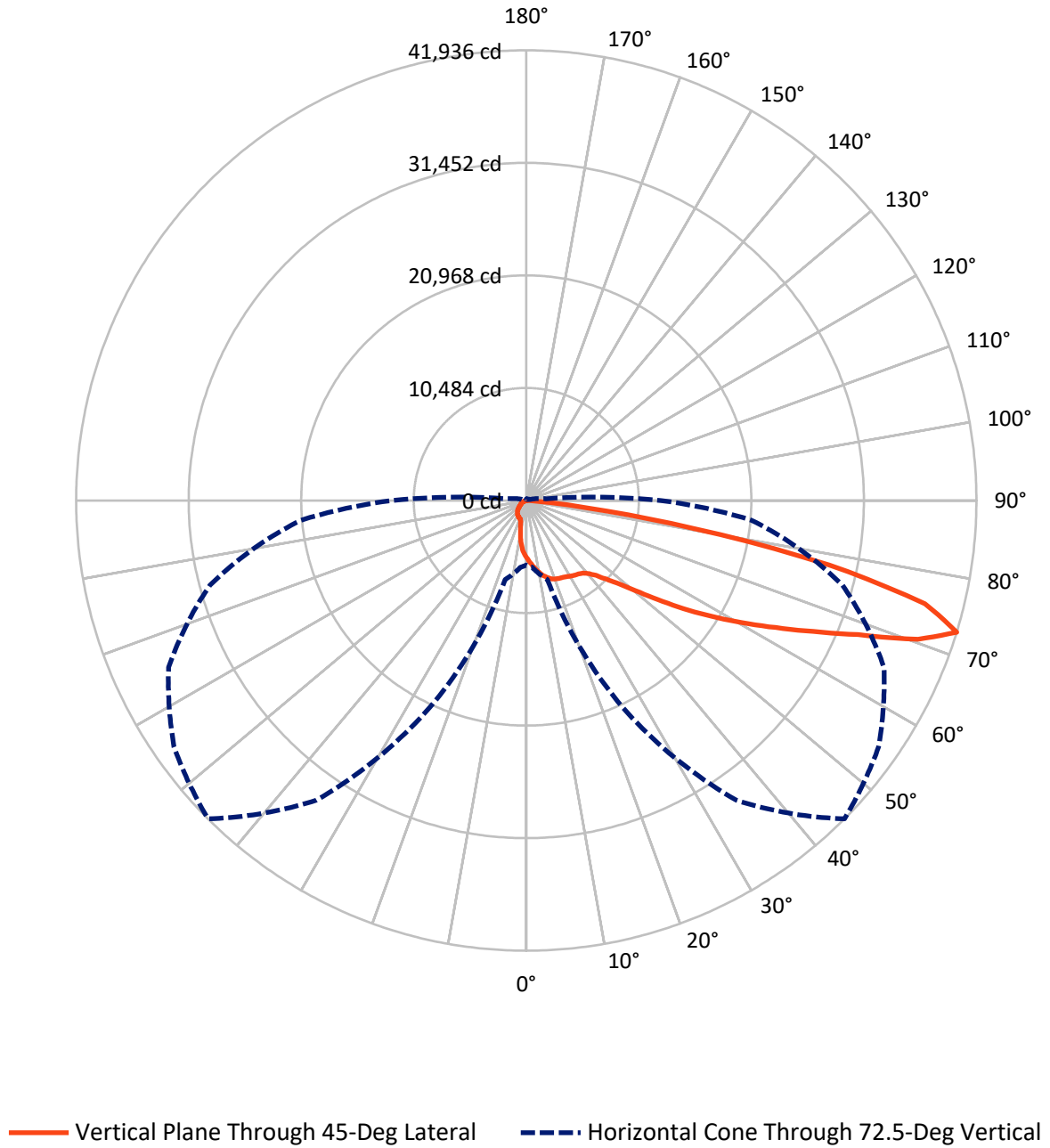
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5120.9	0.0	5120.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	43616.1	0.0	43616.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	48737.0	0.0	48737.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	503.1	1.0
10°-20°	1470.2	3.0
20°-30°	2414.4	5.0
30°-40°	3424.1	7.0
40°-50°	5659.8	11.6
50°-60°	10167.1	20.9
60°-70°	14117.6	29.0
70°-80°	10240.4	21.0
80°-90°	740.3	1.5
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°	48737.0	100.0
0°-180°	48737.0	100.0

Coefficient of Utilization



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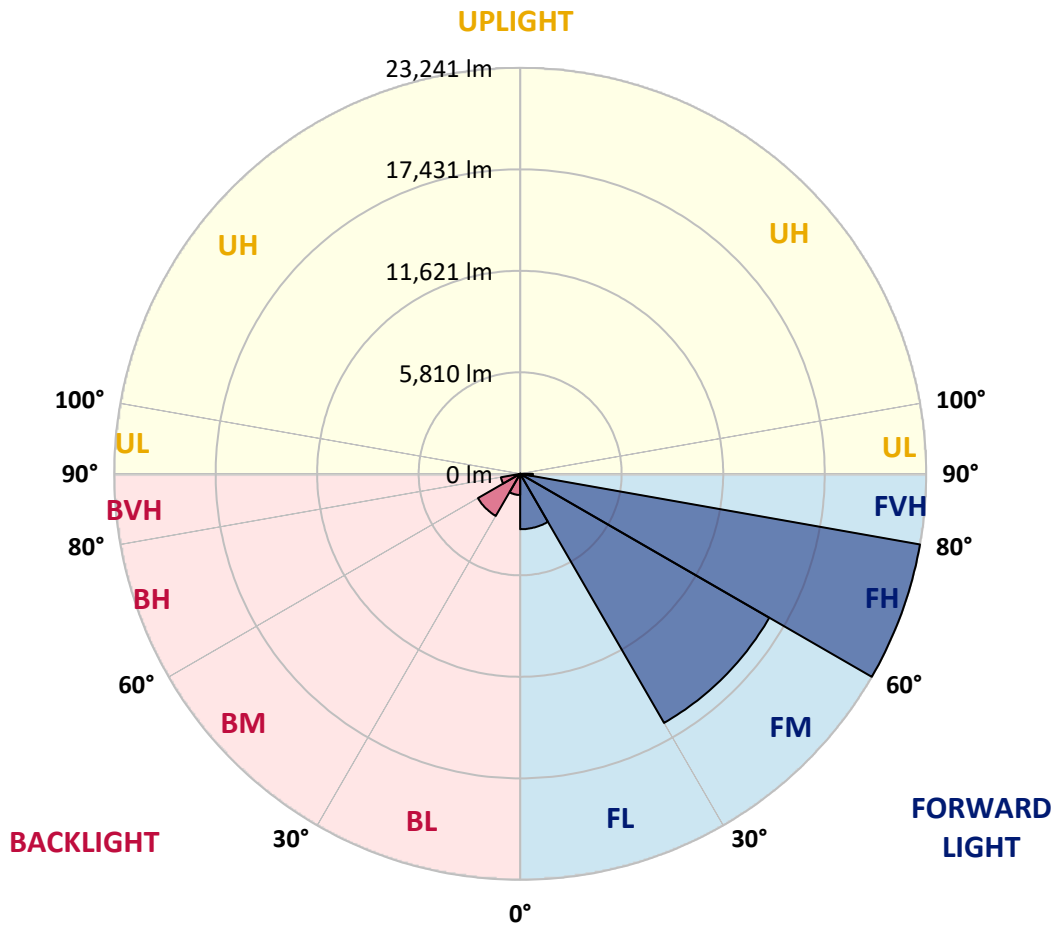
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3174.7	6.5			
FM (30°-60°)	16466.0	33.8			
FH (60°-80°)	23241.3	47.7			G5
FVH (80°-90°)	734.1	1.5			G4/750
BL (0°-30°)	1212.9	2.5	B3/2500		
BM (30°-60°)	2785.0	5.7	B3/5000		
BH (60°-80°)	1116.7	2.3	B3/2500		G3/2500
BVH (80°-90°)	6.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2
2.5°	5831.6	5841.6	5834.9	5795.0	5728.5	5691.9	5671.9	5605.4	5562.1	5485.6
5°	6367.2	6407.1	6383.8	6304.0	6177.6	6087.7	6061.1	5924.7	5801.6	5658.6
7.5°	6936.0	6956.0	6912.7	6809.6	6640.0	6486.9	6463.6	6274.0	6077.8	5858.2
10°	7428.4	7451.7	7385.1	7235.4	7042.5	6852.9	6819.6	6610.0	6377.2	6107.7
12.5°	7840.9	7864.2	7777.7	7598.0	7385.1	7188.8	7155.6	6936.0	6679.9	6380.5
15°	8153.6	8196.8	8080.4	7887.4	7657.9	7461.6	7445.0	7228.8	6979.3	6646.6
17.5°	8336.5	8379.8	8270.0	8037.1	7840.9	7674.5	7654.6	7474.9	7242.1	6922.7
20°	8366.5	8406.4	8290.0	8087.0	7924.0	7791.0	7781.0	7651.3	7481.6	7175.5
22.5°	8276.7	8326.6	8220.1	8057.1	7944.0	7874.1	7860.8	7787.6	7691.2	7431.7
25°	8183.5	8223.4	8143.6	8000.5	7940.7	7934.0	7944.0	7930.7	7910.7	7691.2
27.5°	8176.9	8220.1	8130.3	7993.9	7960.6	8030.5	8040.5	8103.7	8120.3	7927.4
30°	8233.4	8263.4	8176.9	8033.8	8017.2	8176.9	8180.2	8293.3	8319.9	8127.0
32.5°	8356.5	8389.8	8303.3	8093.7	8070.4	8293.3	8303.3	8453.0	8496.2	8339.9
35°	8645.9	8685.8	8586.0	8260.0	8176.9	8403.1	8433.0	8609.3	8695.8	8566.1
37.5°	9367.8	9251.4	9115.0	8596.0	8419.7	8576.1	8626.0	8832.2	8985.2	8835.5
40°	11160.8	10794.9	10369.1	9168.2	8845.5	8945.3	8985.2	9191.5	9401.1	9254.7
42.5°	13852.1	13419.6	12734.3	10485.5	9487.6	9537.4	9567.4	9747.0	10043.1	9926.7
45°	16250.6	16094.2	15395.6	12734.3	10688.5	10442.3	10478.9	10572.0	11007.8	10964.6
47.5°	18093.5	18003.7	17464.8	15315.8	12717.7	11550.1	11653.2	11696.4	12325.2	12478.2
50°	19510.7	19477.4	18995.1	17611.2	15369.0	13183.4	13220.0	13126.9	14068.3	14447.6
52.5°	20848.0	20961.1	20605.1	19743.6	18200.0	15322.5	15315.8	14876.7	16147.5	16719.6
55°	22055.6	22095.5	22132.1	21919.2	21047.6	17757.6	17694.3	16975.8	18559.3	19151.4
57.5°	23189.9	23206.6	23532.6	23968.4	24011.6	20372.3	20255.9	19394.3	21194.0	21616.4
60°	23951.7	24028.3	24716.9	25927.8	26456.7	23070.2	23007.0	22128.7	23875.2	24071.5
62.5°	22854.0	23319.7	25056.2	27458.0	28765.4	26060.8	26030.9	25205.9	26696.2	26536.5
65°	18499.4	19287.8	22341.7	28492.6	31030.8	29400.8	29444.0	28565.8	29593.7	29074.8
67.5°	12940.6	13772.3	17385.0	28575.8	33562.4	33322.9	33572.4	32195.1	32670.8	31506.5
70°	8948.6	9377.8	11729.7	26786.0	35535.1	38725.3	38718.7	36652.8	35731.3	32614.3
72.5°	6017.9	6240.8	7618.0	21250.5	34084.7	41935.5	41742.6	40059.3	36762.6	30501.9
75°	2538.2	2701.2	3526.2	11942.6	26965.7	38366.0	37843.7	35402.0	32664.2	24018.3
77.5°	805.0	874.9	1390.5	4274.7	14853.4	28838.6	28286.3	22108.8	21892.6	12049.1
80°	382.6	445.8	781.8	1716.5	5844.9	15685.1	15608.6	10029.8	9417.7	3253.4
82.5°	166.3	196.3	432.5	918.2	2614.7	5595.4	5708.5	3413.1	2824.3	1234.2
85°	53.2	69.9	199.6	422.5	1104.4	1390.5	1373.9	811.7	1137.7	672.0
87.5°	0.0	0.0	66.5	96.5	113.1	79.8	89.8	69.9	316.0	186.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5339.2	0°	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2	5339.2
5405.8	2.5°	5365.9	5312.6	5219.5	5133.0	5056.5	4980.0	4933.4	4866.9	4860.2	4860.2
5492.3	5°	5402.4	5316.0	5149.6	4973.3	4770.4	4577.4	4384.5	4198.2	4138.3	4095.1
5632.0	7.5°	5508.9	5372.5	5109.7	4773.7	4387.8	3965.3	3669.3	3349.9	3226.8	3160.3
5818.3	10°	5661.9	5475.6	5076.4	4487.6	3862.2	3286.7	2864.2	2518.3	2385.2	2328.6
6021.2	12.5°	5831.6	5602.0	5016.6	4131.7	3286.7	2598.1	2185.6	2025.9	2006.0	2006.0
6264.0	15°	6034.5	5755.1	4913.4	3712.5	2684.6	2055.9	1909.5	1916.1	1936.1	1949.4
6500.2	17.5°	6244.1	5918.1	4750.4	3243.5	2152.3	1849.6	1852.9	1862.9	1879.5	1892.9
6756.4	20°	6470.3	6081.1	4534.2	2744.5	1846.3	1789.7	1799.7	1809.7	1823.0	1829.6
6995.9	22.5°	6713.1	6234.1	4278.0	2255.5	1743.2	1739.8	1743.2	1753.1	1769.8	1769.8
7275.3	25°	6972.6	6403.8	3985.3	1899.5	1689.9	1689.9	1696.6	1703.2	1716.5	1716.5
7544.8	27.5°	7238.7	6560.1	3675.9	1713.2	1643.4	1640.0	1640.0	1650.0	1656.7	1660.0
7810.9	30°	7531.5	6743.1	3366.6	1673.3	1606.8	1590.1	1580.1	1586.8	1593.5	1596.8
8090.4	32.5°	7830.9	6919.4	3090.4	1689.9	1570.2	1540.2	1507.0	1500.3	1500.3	1513.6
8379.8	35°	8163.6	7112.3	2877.5	1746.5	1550.2	1467.0	1413.8	1383.9	1387.2	1407.2
8725.8	37.5°	8562.7	7345.2	2721.2	1796.4	1536.9	1383.9	1297.4	1260.8	1237.5	1260.8
9201.5	40°	9085.0	7687.8	2608.1	1836.3	1520.3	1287.4	1171.0	1111.1	1067.8	1081.2
9940.0	42.5°	9853.5	8226.8	2564.8	1839.6	1483.7	1174.3	1041.2	961.4	898.2	901.5
11051.1	45°	10931.3	9078.4	2787.7	1796.4	1403.8	1051.2	904.8	798.4	758.5	748.5
12711.1	47.5°	12408.3	10319.2	3303.3	1706.6	1287.4	931.5	771.8	682.0	652.0	635.4
14890.0	50°	14387.7	11912.7	3875.5	1606.8	1171.0	818.4	662.0	605.4	585.5	568.9
17474.8	52.5°	16683.1	13529.4	4344.6	1507.0	1054.5	718.6	592.1	558.9	542.2	528.9
19969.8	55°	18788.8	14643.8	4318.0	1400.5	941.4	638.7	542.2	522.3	502.3	489.0
22118.8	57.5°	20099.5	14800.2	3559.5	1284.1	811.7	575.5	495.7	482.4	459.1	442.4
23978.4	60°	20701.6	13908.6	2495.0	1131.1	682.0	515.6	445.8	439.1	409.2	385.9
25738.1	62.5°	20811.4	12252.0	1663.3	941.4	568.9	459.1	395.9	385.9	346.0	306.1
27168.6	65°	20365.6	9883.4	1151.0	735.2	485.7	399.2	339.3	319.4	276.1	236.2
27507.9	67.5°	18955.1	6939.4	801.7	528.9	412.5	316.0	269.5	262.8	229.5	196.3
25778.1	70°	16370.3	3955.4	535.6	395.9	326.0	216.2	212.9	219.6	186.3	159.7
21060.9	72.5°	12551.4	1809.7	332.7	289.4	222.9	146.4	169.7	173.0	143.0	119.8
13140.2	75°	7388.4	775.1	209.6	186.3	113.1	96.5	123.1	126.4	96.5	76.5
4803.7	77.5°	2514.9	292.7	133.1	109.8	56.6	53.2	79.8	79.8	53.2	29.9
964.7	80°	572.2	109.8	66.5	43.2	26.6	23.3	26.6	23.3	13.3	3.3
296.1	82.5°	163.0	43.2	26.6	16.6	10.0	10.0	3.3	0.0	0.0	0.0
103.1	85°	46.6	20.0	6.7	6.7	0.0	0.0	0.0	0.0	0.0	0.0
36.6	87.5°	20.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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180°
5339.2
4876.8
4115.0
3170.3
2328.6
2006.0
1949.4
1892.9
1833.0
1776.4
1719.9
1663.3
1603.4
1523.6
1417.1
1254.1
1074.5
888.2
735.2
625.4
565.5
525.6
482.4
439.1
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66.5
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