

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: P956486

Luminaire Tested: **GALN-SB9A-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB9A-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40953 lumens
Efficiency: N/A
Efficacy: 160.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

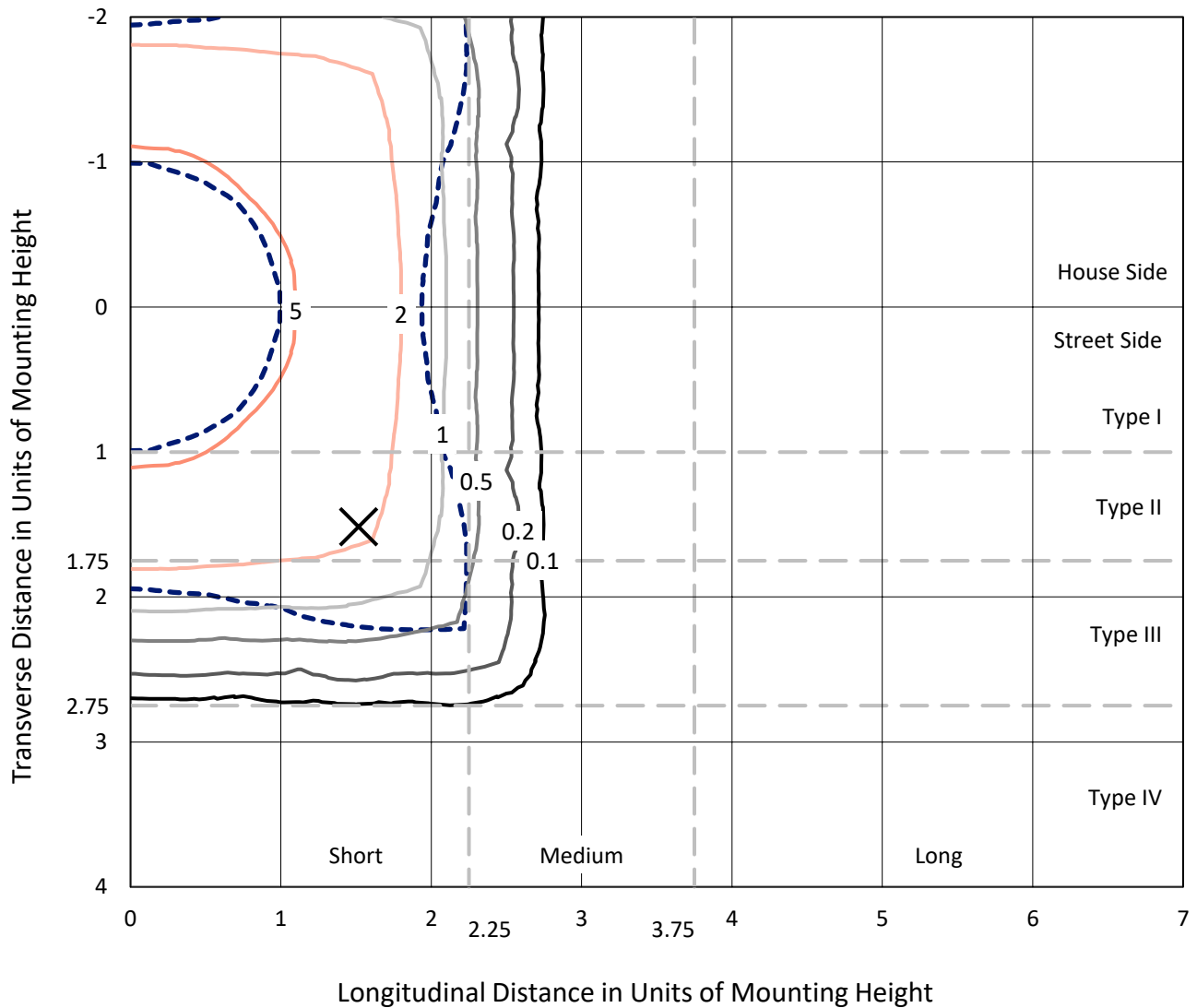
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

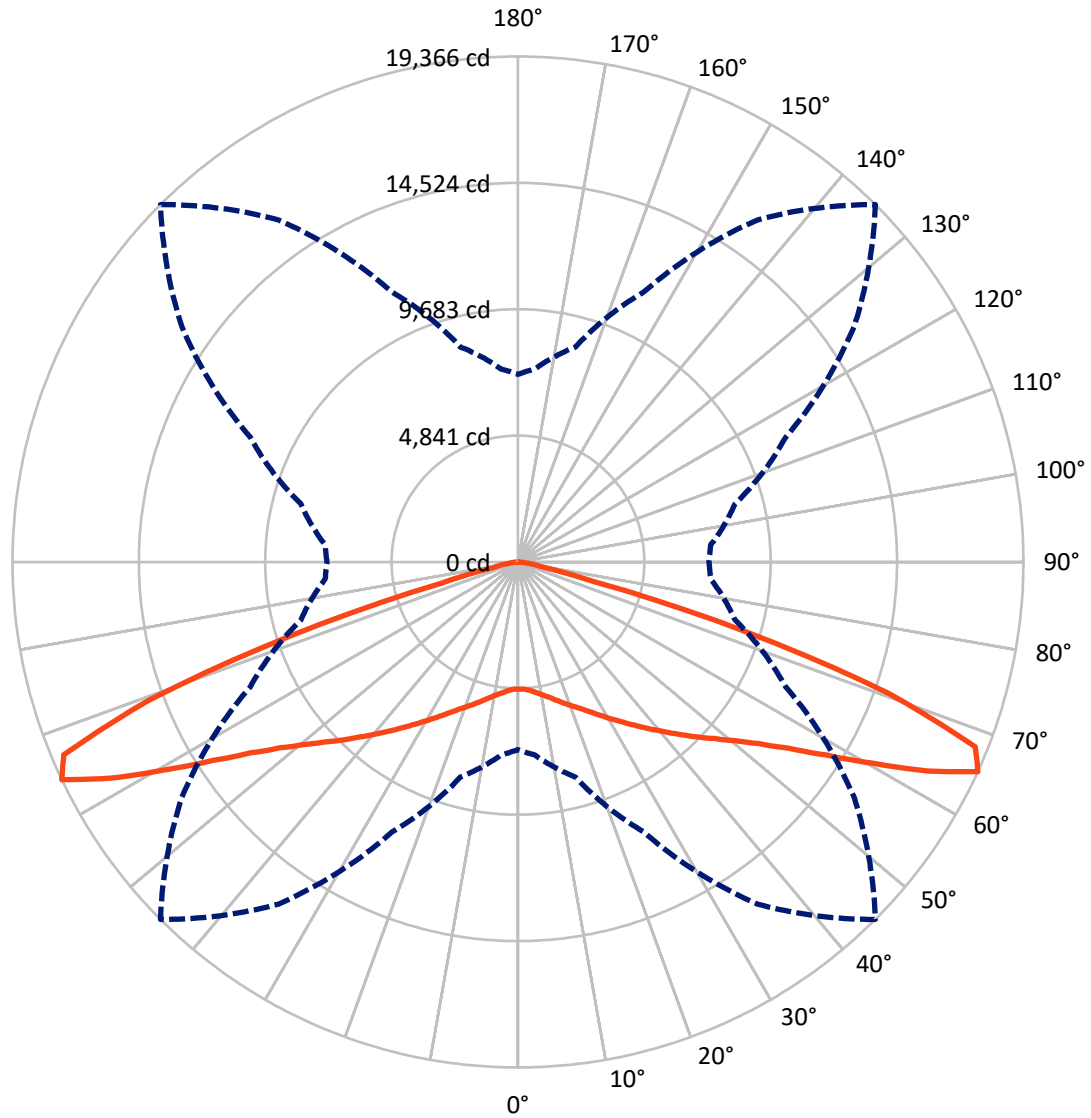
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20476.5	0.0	20476.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20476.5	0.0	20476.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40953.0	0.0	40953.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.0	1.2
10°-20°	1569.5	3.8
20°-30°	2963.5	7.2
30°-40°	4852.6	11.8
40°-50°	7523.9	18.4
50°-60°	11114.4	27.1
60°-70°	10579.9	25.8
70°-80°	1707.2	4.2
80°-90°	160.9	0.4
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°	40953.0	100.0
0°-180°	40953.0	100.0



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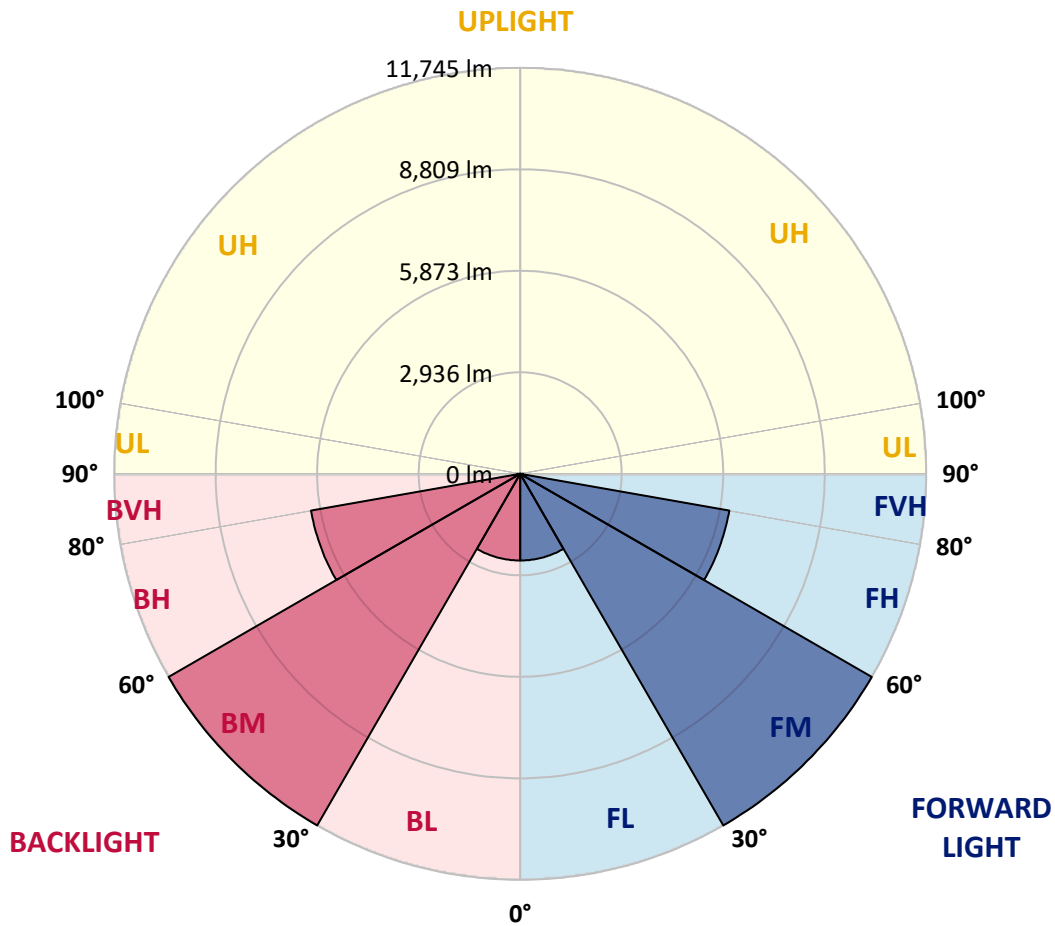
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2507.0	6.1			
FM (30°-60°)	11745.5	28.7			
FH (60°-80°)	6143.6	15.0			G3/7500
FVH (80°-90°)	80.5	0.2			G1/100
BL (0°-30°)	2507.0	6.1	B4/5000		
BM (30°-60°)	11745.5	28.7	B5		
BH (60°-80°)	6143.6	15.0	B5		G3/7500
BVH (80°-90°)	80.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4873.8	4873.8	4873.8	4873.8	4873.8	4873.8	4873.8	4873.8	4873.8	4873.8
2.5°	4906.7	4890.3	4902.6	4892.3	4884.1	4875.9	4880.0	4894.4	4900.5	4902.6
5°	4972.4	4958.1	4964.2	4964.2	4949.8	4945.7	4947.8	4958.1	4970.4	4970.4
7.5°	5079.3	5064.9	5079.3	5071.1	5058.7	5054.6	5052.6	5060.8	5079.3	5079.3
10°	5208.7	5192.3	5200.5	5196.4	5182.0	5175.9	5173.8	5186.1	5202.6	5200.5
12.5°	5350.5	5332.0	5342.3	5330.0	5325.9	5319.7	5319.7	5317.6	5327.9	5319.7
15°	5508.7	5496.4	5500.5	5492.3	5498.5	5494.3	5477.9	5469.7	5473.8	5461.5
17.5°	5695.7	5666.9	5681.3	5677.2	5677.2	5685.4	5658.7	5648.4	5656.7	5644.3
20°	5911.5	5882.7	5888.9	5880.6	5870.4	5878.6	5845.7	5853.9	5860.1	5851.9
22.5°	6147.7	6110.8	6108.7	6112.8	6090.2	6092.3	6069.7	6090.2	6102.5	6079.9
25°	6390.2	6351.2	6377.9	6367.6	6338.8	6345.0	6328.6	6349.1	6359.4	6330.6
27.5°	6647.0	6620.3	6645.0	6651.2	6616.2	6640.9	6616.2	6634.7	6645.0	6601.8
30°	6947.0	6920.3	6942.9	6959.4	6918.3	6957.3	6936.8	6949.1	6951.1	6899.8
32.5°	7273.7	7232.6	7290.2	7298.4	7253.2	7300.5	7273.7	7290.2	7300.5	7230.6
35°	7672.4	7621.0	7686.7	7676.5	7637.4	7676.5	7651.8	7676.5	7701.1	7616.9
37.5°	8101.8	8048.4	8118.2	8099.7	8062.8	8089.5	8075.1	8091.5	8130.6	8040.2
40°	8574.4	8508.6	8603.1	8570.3	8535.3	8531.2	8539.5	8549.7	8601.1	8500.4
42.5°	9079.8	9010.0	9151.8	9100.4	9051.1	9018.2	9044.9	9065.5	9114.8	9001.8
45°	9657.2	9577.1	9762.0	9700.4	9622.3	9554.5	9597.6	9628.5	9700.4	9564.8
47.5°	10294.2	10203.8	10401.0	10382.5	10255.2	10107.2	10205.8	10294.2	10347.6	10183.2
50°	10916.8	10846.9	11105.8	11128.4	10972.3	10764.7	10902.4	11035.9	11050.3	10834.6
52.5°	11500.3	11430.5	11806.5	11948.2	11808.5	11562.0	11707.8	11843.5	11734.6	11455.1
55°	11966.7	11909.2	12388.0	12753.7	12801.0	12597.5	12683.8	12679.7	12322.2	11892.8
57.5°	12079.8	12071.5	12675.6	13450.3	13943.4	13968.0	13797.5	13361.9	12591.4	12014.0
60°	11566.1	11617.4	12447.5	13813.9	15129.0	15675.5	14937.9	13694.8	12285.2	11483.9
62.5°	10029.1	10164.7	11165.4	13370.1	16086.5	17639.8	15852.2	13189.3	11027.7	9981.9
65°	7187.4	7423.7	8529.2	11409.9	16000.2	19365.8	15720.7	11317.4	8611.4	7405.2
67.5°	3260.9	3501.3	4440.3	7812.1	13908.5	18897.3	13875.6	7894.3	4662.2	3513.6
70°	1181.5	1222.6	1524.6	3127.3	8888.8	15057.1	9268.9	3149.9	1621.2	1302.7
72.5°	715.0	721.2	784.9	1119.8	3088.3	9141.5	3219.8	1156.8	801.3	710.9
75°	454.1	450.0	558.9	684.2	1095.2	3084.1	1148.6	684.2	556.8	507.5
77.5°	326.7	337.0	400.7	511.6	690.4	1045.9	678.1	489.0	400.7	328.8
80°	244.5	250.7	291.8	398.6	484.9	651.3	431.5	361.6	302.0	205.5
82.5°	176.7	176.7	191.1	289.7	295.9	351.4	234.2	254.8	199.3	145.9
85°	104.8	102.7	119.2	172.6	154.1	129.4	106.8	156.2	125.3	90.4
87.5°	37.0	39.0	37.0	49.3	41.1	34.9	32.9	43.1	34.9	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4873.8
4902.6
4970.4
5073.1
5196.4
5323.8
5463.5
5654.6
5870.4
6102.5
6363.5
6634.7
6930.6
7277.8
7668.2
8095.6
8533.3
9061.4
9634.6
10238.7
10861.3
11463.3
11907.2
11977.0
11389.4
9920.2
7316.9
3462.2
1286.3
723.3
511.6
334.9
211.6
145.9
88.4
28.8
0.0

OF REPORT)