

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: P957199

Luminaire Tested: **GALN-SB9C-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 68331 lumens
Efficiency: N/A
Efficacy: 151.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

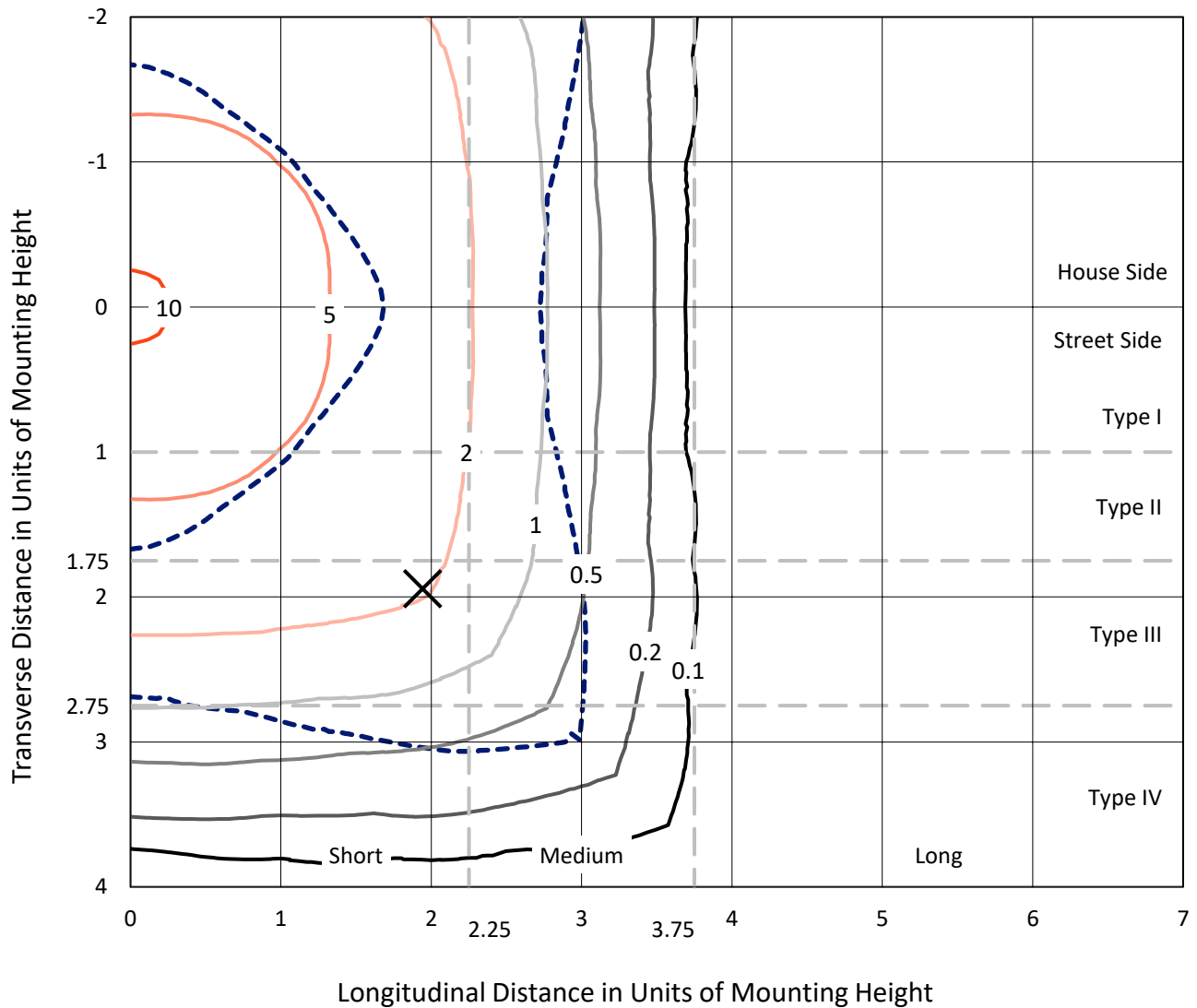
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

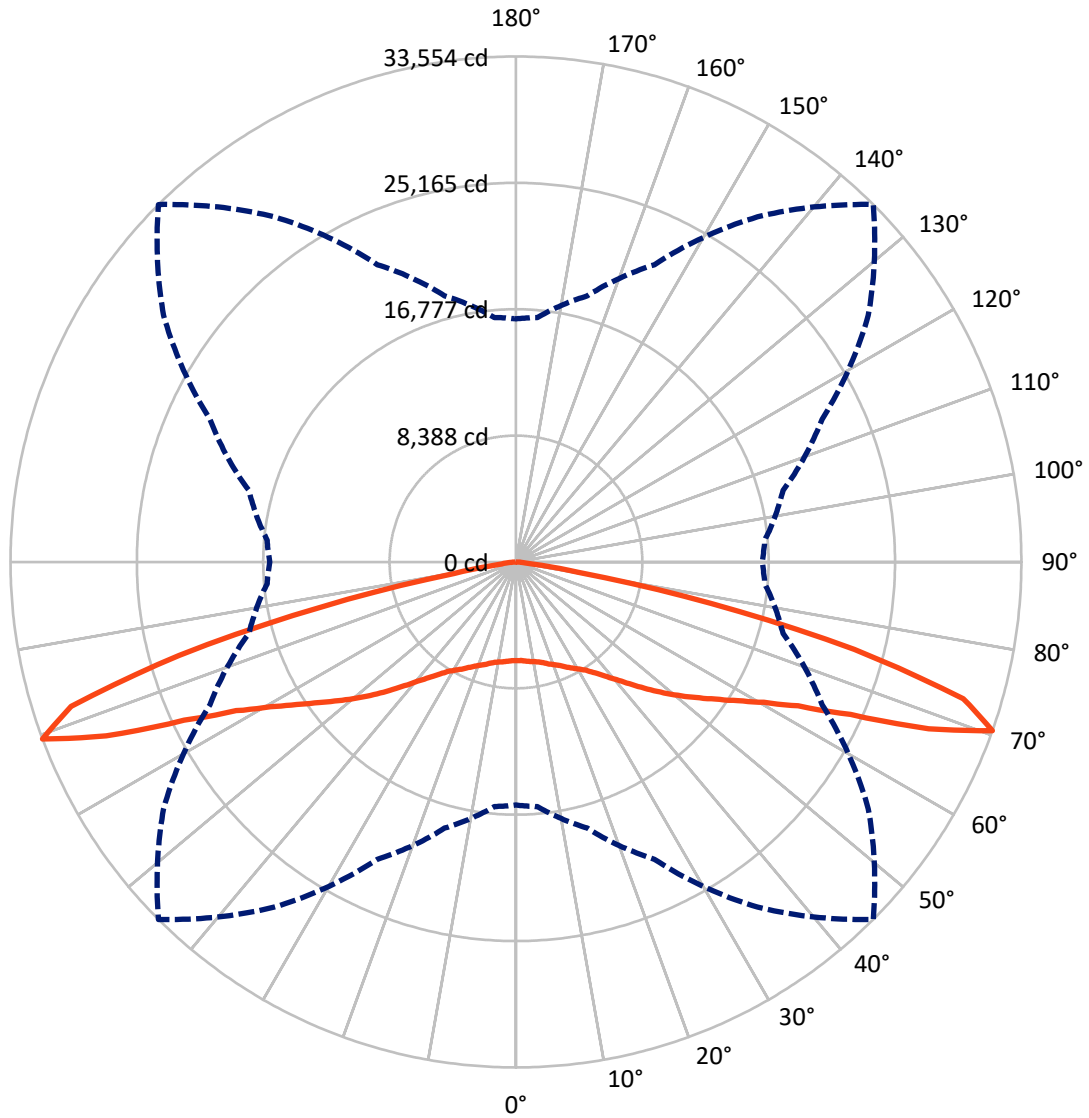
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	34165.5	0.0	34165.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	34165.5	0.0	34165.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	68331.0	0.0	68331.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.9	0.9
10°-20°	1971.8	2.9
20°-30°	3523.8	5.2
30°-40°	5712.1	8.4
40°-50°	9304.1	13.6
50°-60°	14185.6	20.8
60°-70°	21103.7	30.9
70°-80°	11502.2	16.8
80°-90°	391.7	0.6
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°	68331.0	100.0
0°-180°	68331.0	100.0

Coefficient of Utilization



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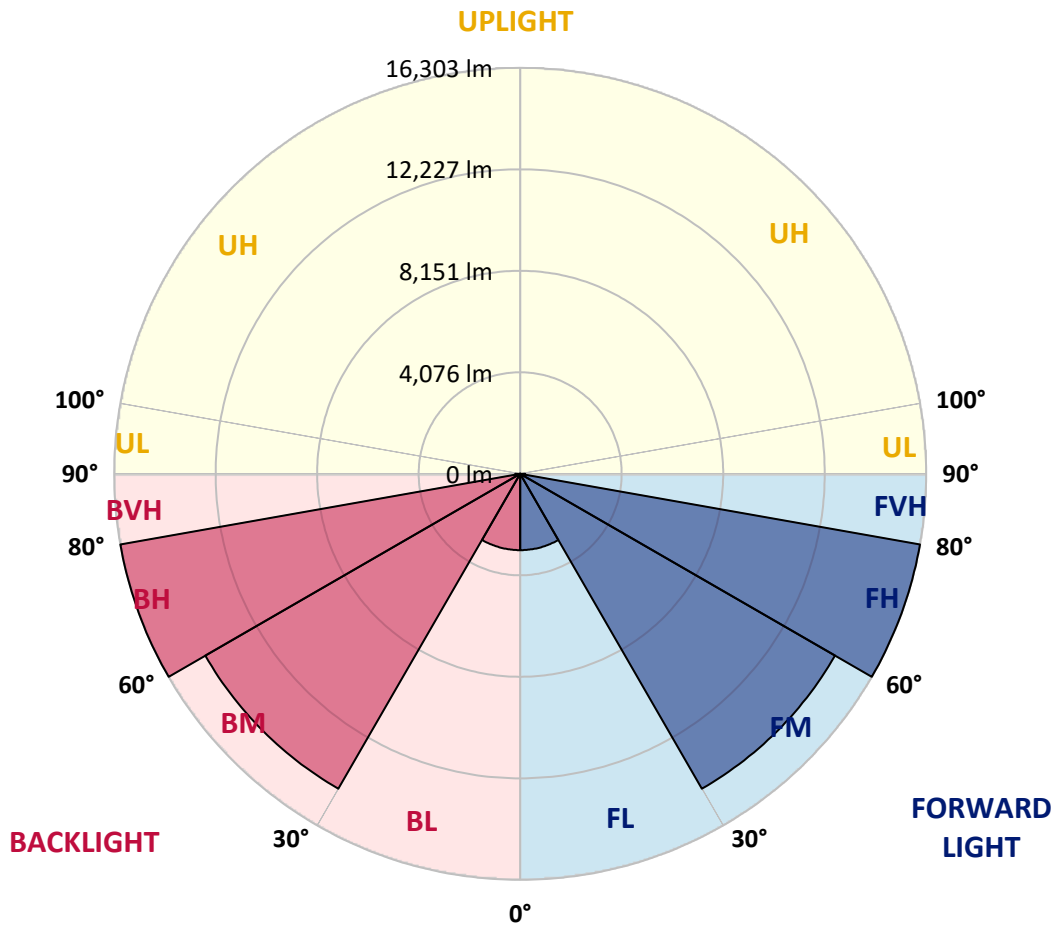
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3065.8	4.5			
FM (30°-60°)	14600.9	21.4			
FH (60°-80°)	16303.0	23.9			G5
FVH (80°-90°)	195.8	0.3			G2/225
BL (0°-30°)	3065.8	4.5	B4/5000		
BM (30°-60°)	14600.9	21.4	B5		
BH (60°-80°)	16303.0	23.9	B5		G5
BVH (80°-90°)	195.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6545.4	6545.4	6545.4	6545.4	6545.4	6545.4	6545.4	6545.4	6545.4	6545.4
2.5°	6576.3	6583.1	6569.4	6562.6	6555.7	6545.4	6548.8	6566.0	6579.7	6576.3
5°	6631.2	6638.0	6627.7	6624.3	6610.6	6607.2	6607.2	6624.3	6634.6	6627.7
7.5°	6692.9	6703.2	6686.1	6682.6	6675.8	6668.9	6665.5	6682.6	6692.9	6692.9
10°	6751.2	6761.5	6747.8	6737.5	6730.6	6730.6	6723.8	6737.5	6754.7	6751.2
12.5°	6813.0	6819.8	6806.1	6799.3	6799.3	6809.6	6799.3	6806.1	6819.8	6813.0
15°	6888.5	6891.9	6888.5	6898.7	6915.9	6950.2	6919.3	6912.5	6919.3	6902.2
17.5°	6991.4	6998.2	7012.0	7036.0	7060.0	7121.7	7066.8	7049.7	7049.7	7015.4
20°	7118.3	7128.6	7149.2	7190.3	7221.2	7279.5	7224.6	7200.6	7190.3	7145.7
22.5°	7252.1	7269.2	7300.1	7355.0	7409.9	7464.8	7409.9	7368.7	7337.8	7279.5
25°	7406.5	7427.0	7475.1	7564.3	7639.7	7718.6	7653.5	7571.1	7509.4	7427.0
27.5°	7626.0	7650.0	7708.3	7818.1	7914.2	7982.8	7921.0	7814.7	7728.9	7629.4
30°	7934.8	7958.8	8027.4	8144.0	8209.2	8253.8	8212.6	8130.3	8027.4	7914.2
32.5°	8332.7	8363.6	8439.0	8548.8	8562.5	8569.4	8555.7	8514.5	8439.0	8301.8
35°	8837.0	8871.3	8957.0	9046.2	9032.5	9046.2	9025.7	9011.9	8957.0	8799.2
37.5°	9454.5	9495.6	9584.8	9653.4	9619.1	9602.0	9605.4	9608.8	9578.0	9403.0
40°	10171.4	10226.3	10291.5	10363.6	10305.2	10253.8	10288.1	10315.5	10288.1	10109.7
42.5°	10909.0	10987.9	11056.5	11159.4	11111.4	11046.2	11094.3	11125.1	11066.8	10874.7
45°	11728.9	11804.4	11893.6	12047.9	12013.6	11945.0	12013.6	12020.5	11921.0	11694.6
47.5°	12576.2	12655.1	12788.9	12994.8	12981.0	12905.6	12994.8	12946.7	12819.8	12548.8
50°	13379.0	13488.7	13694.6	13982.7	14010.2	13917.6	14037.6	13945.0	13732.3	13392.7
52.5°	14133.7	14250.3	14576.2	14967.3	15066.8	14946.7	15107.9	14946.7	14627.7	14192.0
55°	14926.1	15056.5	15444.1	15955.3	16154.2	16065.1	16216.0	15972.4	15519.6	14991.3
57.5°	15859.2	15938.1	16401.2	17008.4	17344.6	17365.2	17433.8	17022.2	16473.3	15872.9
60°	16871.2	16981.0	17485.3	18212.5	18744.3	18915.8	18843.8	18233.1	17595.1	16905.5
62.5°	18168.0	18288.0	18891.8	19763.1	20603.6	21029.0	20747.7	19862.6	19073.6	18246.9
65°	19241.7	19375.5	20466.4	22020.4	23550.4	24404.6	23697.9	22068.4	20648.2	19481.8
67.5°	18463.0	18627.6	20339.5	23193.6	26998.1	29546.9	27128.4	23543.6	20761.4	19180.0
70°	16137.1	16291.5	18288.0	21776.8	27968.9	33553.8	28552.1	22418.3	18353.2	16583.1
72.5°	10713.5	11210.9	13231.5	17416.7	24974.1	31049.5	25221.1	17063.3	12274.3	10689.5
75°	3554.0	3951.9	5331.0	9029.1	16727.1	23221.1	15924.4	7989.6	4223.0	3039.4
77.5°	895.4	1032.6	1423.7	2583.2	6672.3	13221.2	6006.8	2109.8	1149.2	802.7
80°	435.7	480.3	686.1	861.1	1670.7	4202.4	1567.7	809.6	542.0	418.5
82.5°	240.1	243.6	387.6	487.1	620.9	1087.5	644.9	473.4	312.2	253.9
85°	147.5	144.1	205.8	260.7	260.7	387.6	308.7	260.7	178.4	157.8
87.5°	58.3	58.3	75.5	82.3	72.0	99.5	78.9	85.8	68.6	65.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6545.4
6579.7
6631.2
6692.9
6751.2
6809.6
6902.2
7015.4
7145.7
7276.1
7423.6
7626.0
7914.2
8305.3
8799.2
9403.0
10109.7
10888.4
11718.6
12531.6
13385.8
14150.8
14919.3
15790.6
16795.8
18102.8
19289.7
18943.2
16346.4
10343.0
2874.8
717.0
384.2
253.9
164.7
68.6
0.0

OF REPORT)