

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: P956762

Luminaire Tested: **GALN-SB9B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45927 lumens
Efficiency: N/A
Efficacy: 139.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

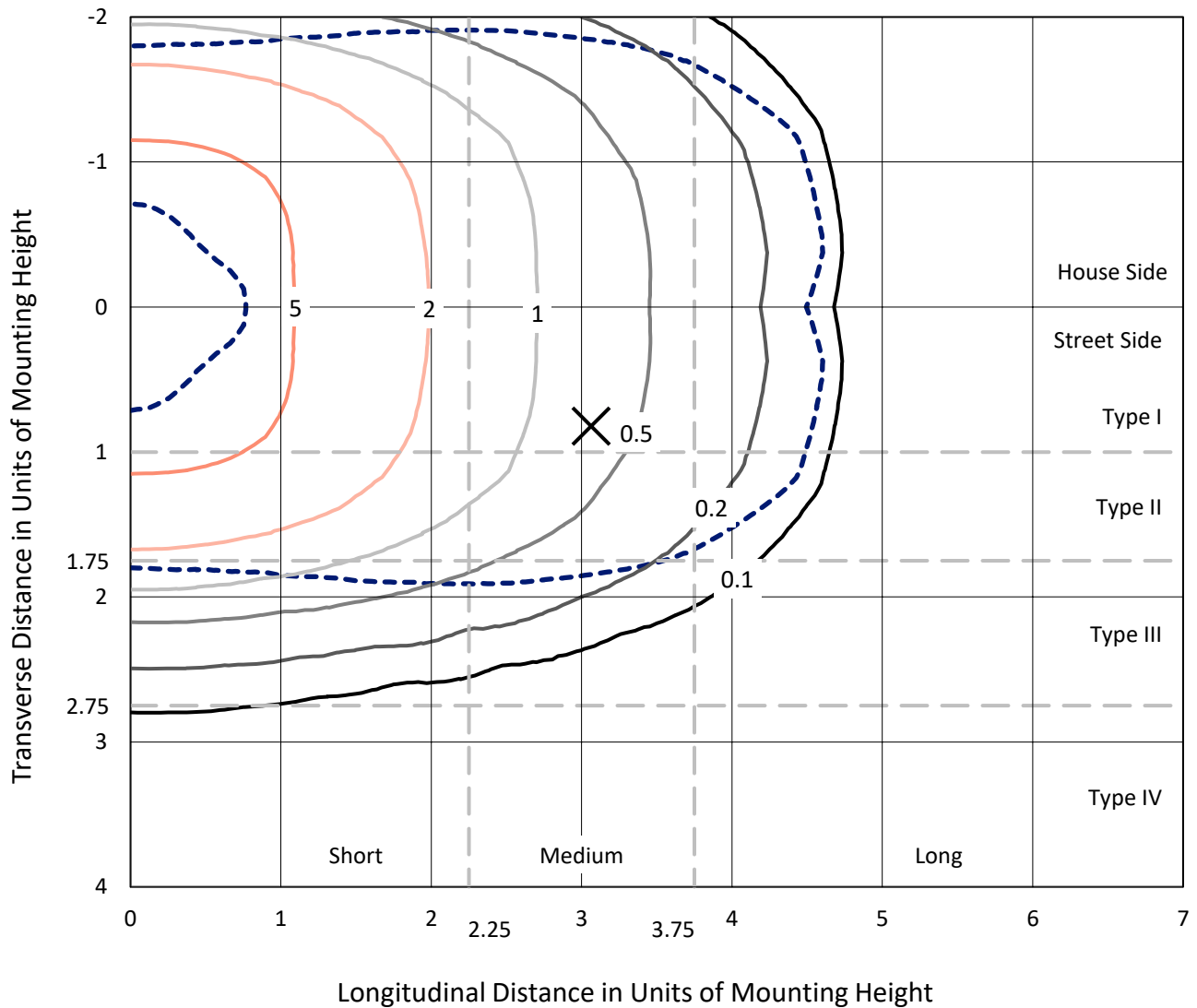
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

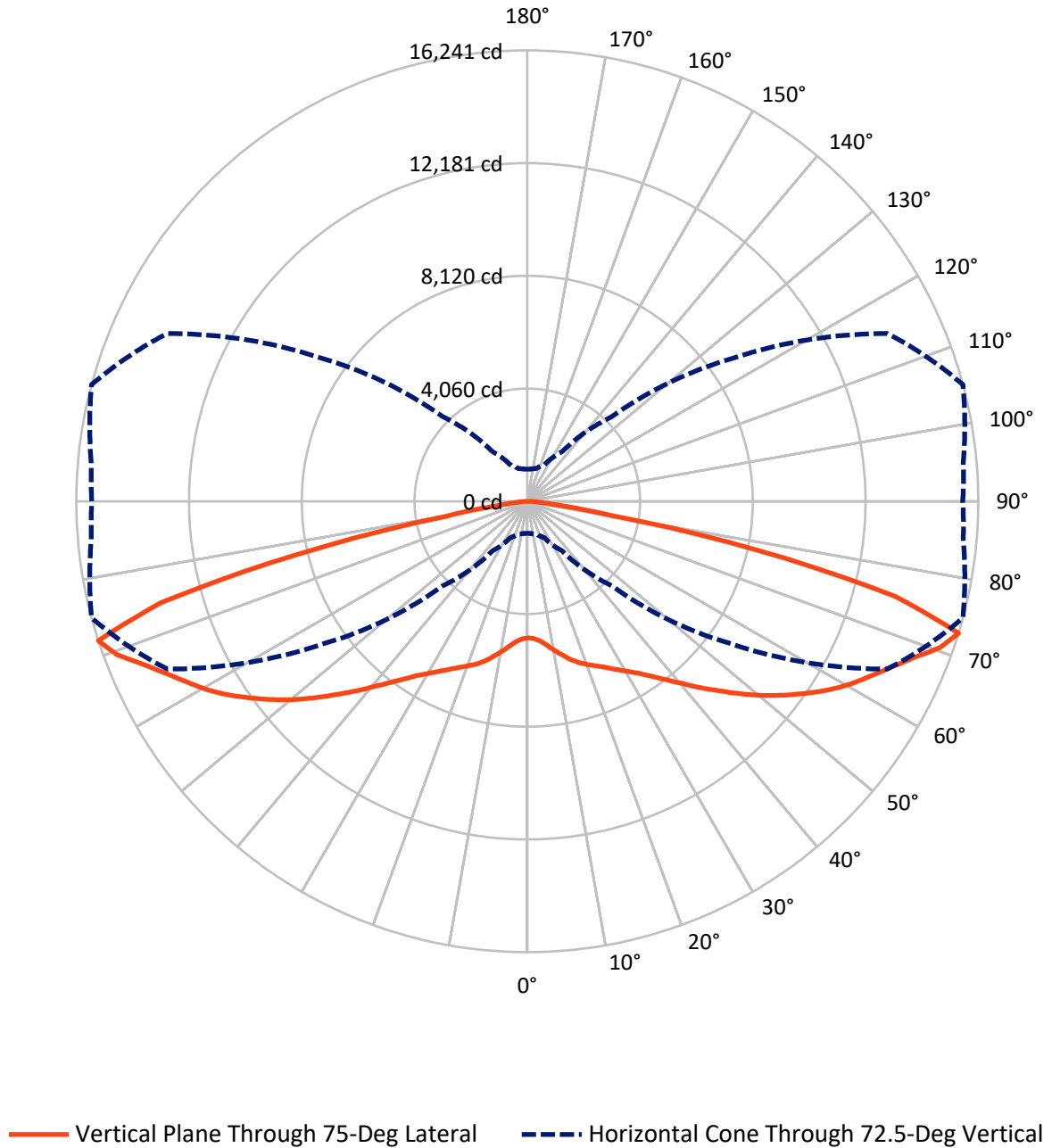
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22963.5	0.0	22963.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22963.5	0.0	22963.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	45927.0	0.0	45927.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	481.9	1.0
10°-20°	1589.5	3.5
20°-30°	3071.3	6.7
30°-40°	5186.1	11.3
40°-50°	8224.5	17.9
50°-60°	11011.7	24.0
60°-70°	10479.6	22.8
70°-80°	5468.4	11.9
80°-90°	413.9	0.9
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°	45927.0	100.0
0°-180°	45927.0	100.0

Coefficient of Utilization



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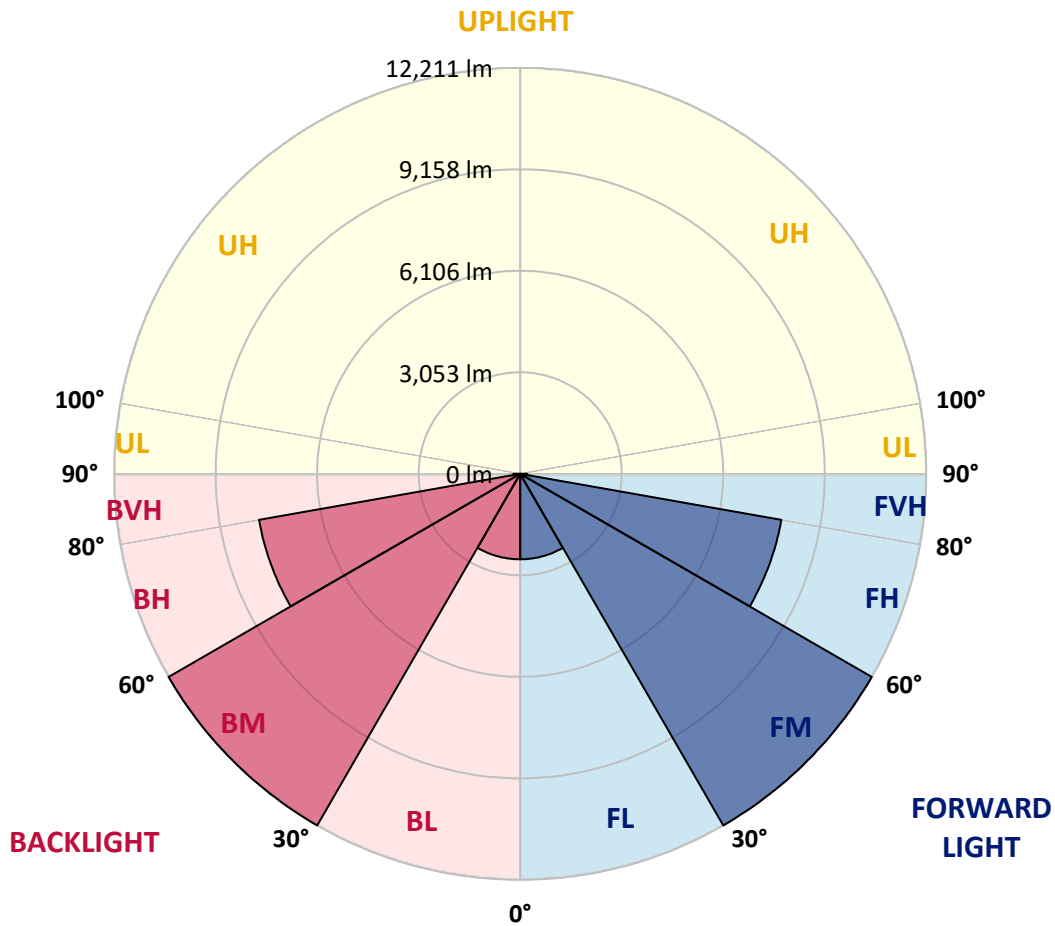
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2571.3	5.6			
FM (30°-60°)	12211.2	26.6			
FH (60°-80°)	7974.0	17.4			G4/12000
FVH (80°-90°)	207.0	0.5			G2/225
BL (0°-30°)	2571.3	5.6	B4/5000		
BM (30°-60°)	12211.2	26.6	B5		
BH (60°-80°)	7974.0	17.4	B5		G5
BVH (80°-90°)	207.0	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6	4919.6
2.5°	4919.6	4914.9	4919.6	4924.3	4921.9	4921.9	4933.7	4940.7	4954.8	4952.4
5°	4886.8	4884.4	4903.2	4924.3	4940.7	4968.8	5004.0	5029.8	5062.6	5069.7
7.5°	4870.4	4863.3	4896.2	4933.7	4985.3	5055.6	5123.6	5194.0	5250.2	5269.0
10°	4882.1	4884.4	4929.0	4999.3	5081.4	5179.9	5276.0	5395.6	5475.3	5494.1
12.5°	4936.0	4931.3	5006.4	5118.9	5231.5	5355.8	5468.3	5599.6	5686.4	5730.9
15°	5034.5	5025.1	5130.6	5297.1	5461.3	5606.7	5698.1	5822.4	5923.2	5979.5
17.5°	5151.7	5156.4	5294.8	5510.5	5726.3	5890.4	5977.2	6040.5	6117.8	6167.1
20°	5358.1	5367.5	5522.2	5777.8	6024.1	6211.6	6282.0	6258.5	6279.6	6317.2
22.5°	5634.8	5639.5	5813.0	6089.7	6347.6	6554.0	6600.9	6504.8	6446.1	6471.9
25°	5956.1	5986.5	6160.1	6443.8	6708.8	6905.7	6926.8	6781.5	6636.1	6643.1
27.5°	6347.6	6375.8	6551.7	6833.0	7102.7	7273.9	7271.5	7076.9	6863.5	6809.6
30°	6772.1	6802.6	6983.1	7273.9	7524.8	7674.9	7642.0	7409.9	7105.1	7004.2
32.5°	7276.2	7295.0	7477.9	7768.7	8000.8	8120.4	8052.4	7766.3	7386.4	7271.5
35°	7885.9	7914.0	8050.0	8324.4	8528.4	8626.9	8512.0	8174.3	7747.6	7618.6
37.5°	8582.3	8563.6	8718.3	8962.2	9131.0	9192.0	9034.9	8633.9	8160.3	8007.8
40°	9309.3	9299.9	9468.7	9703.2	9794.7	9832.2	9600.0	9161.5	8636.3	8472.1
42.5°	9968.2	9961.1	10188.6	10448.9	10559.1	10516.9	10223.8	9722.0	9187.3	8999.7
45°	10495.8	10486.4	10765.4	11131.2	11347.0	11276.6	10882.7	10341.0	9745.4	9550.8
47.5°	10901.4	10906.1	11206.3	11658.9	12036.4	12062.2	11555.7	10971.8	10359.8	10139.4
50°	11194.6	11208.6	11529.9	12031.7	12547.6	12775.0	12242.7	11619.0	10995.2	10746.7
52.5°	11267.3	11293.0	11680.0	12268.5	12875.9	13309.7	12941.5	12240.4	11597.9	11361.0
55°	10880.3	10931.9	11422.0	12249.8	13077.5	13661.4	13555.9	12871.2	12205.2	11961.3
57.5°	9991.6	10064.3	10636.5	11717.5	13033.0	13902.9	14031.9	13476.2	12812.5	12578.1
60°	8746.5	8833.2	9382.0	10561.4	12404.5	13992.0	14367.2	14064.7	13370.6	13143.2
62.5°	6868.2	6980.8	7637.3	9020.8	11077.3	13577.0	14653.3	14597.0	13872.4	13588.7
65°	4406.1	4525.7	5217.4	6851.8	9306.9	12306.0	14742.4	15115.2	14402.4	14006.1
67.5°	2656.8	2710.7	3053.1	4152.8	6802.6	10390.3	13987.3	15689.7	15021.4	14529.0
70°	1700.1	1730.5	1934.5	2438.7	3845.6	7581.1	12116.1	15797.6	15771.8	15066.0
72.5°	1153.7	1163.1	1217.0	1444.5	2176.1	4307.6	8936.4	14301.6	16240.8	15757.7
75°	844.2	895.8	982.5	1022.4	1235.8	2152.6	5121.3	10047.9	13687.2	13898.2
77.5°	628.4	630.8	750.4	797.3	881.7	1146.7	2166.7	5609.0	8497.9	8922.4
80°	532.3	504.2	501.8	642.5	663.6	715.2	968.4	1936.9	3043.7	1845.4
82.5°	443.2	412.7	372.8	501.8	452.6	438.5	419.7	787.9	968.4	476.0
85°	309.5	295.5	281.4	328.3	257.9	220.4	201.7	368.1	408.0	201.7
87.5°	133.7	138.3	140.7	145.4	107.9	77.4	77.4	103.2	103.2	79.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4919.6
4950.1
5069.7
5273.7
5512.9
5749.7
6000.6
6190.5
6345.3
6490.7
6654.8
6826.0
7015.9
7299.7
7637.3
8036.0
8526.1
9046.6
9595.3
10205.0
10821.7
11422.0
12029.3
12632.0
13192.4
13621.5
14055.3
14566.5
15061.3
15682.7
13387.0
7958.6
1395.2
405.7
178.2
58.6
0.0

OF REPORT)