

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: P944420

Luminaire Tested: **GALN-SB9B-840-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944420
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-SB9B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49624 lumens
Efficiency: N/A
Efficacy: 150.6 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

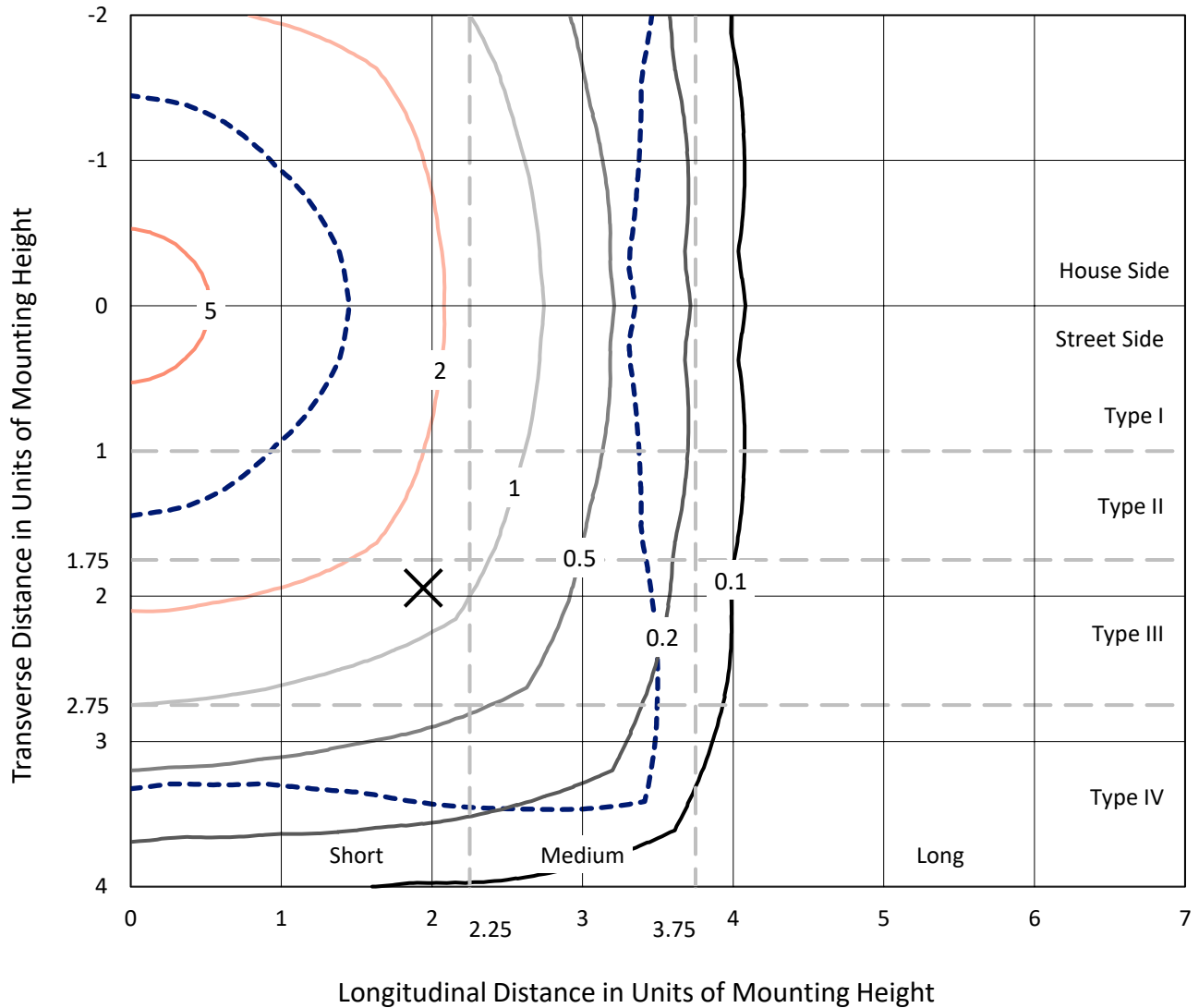
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

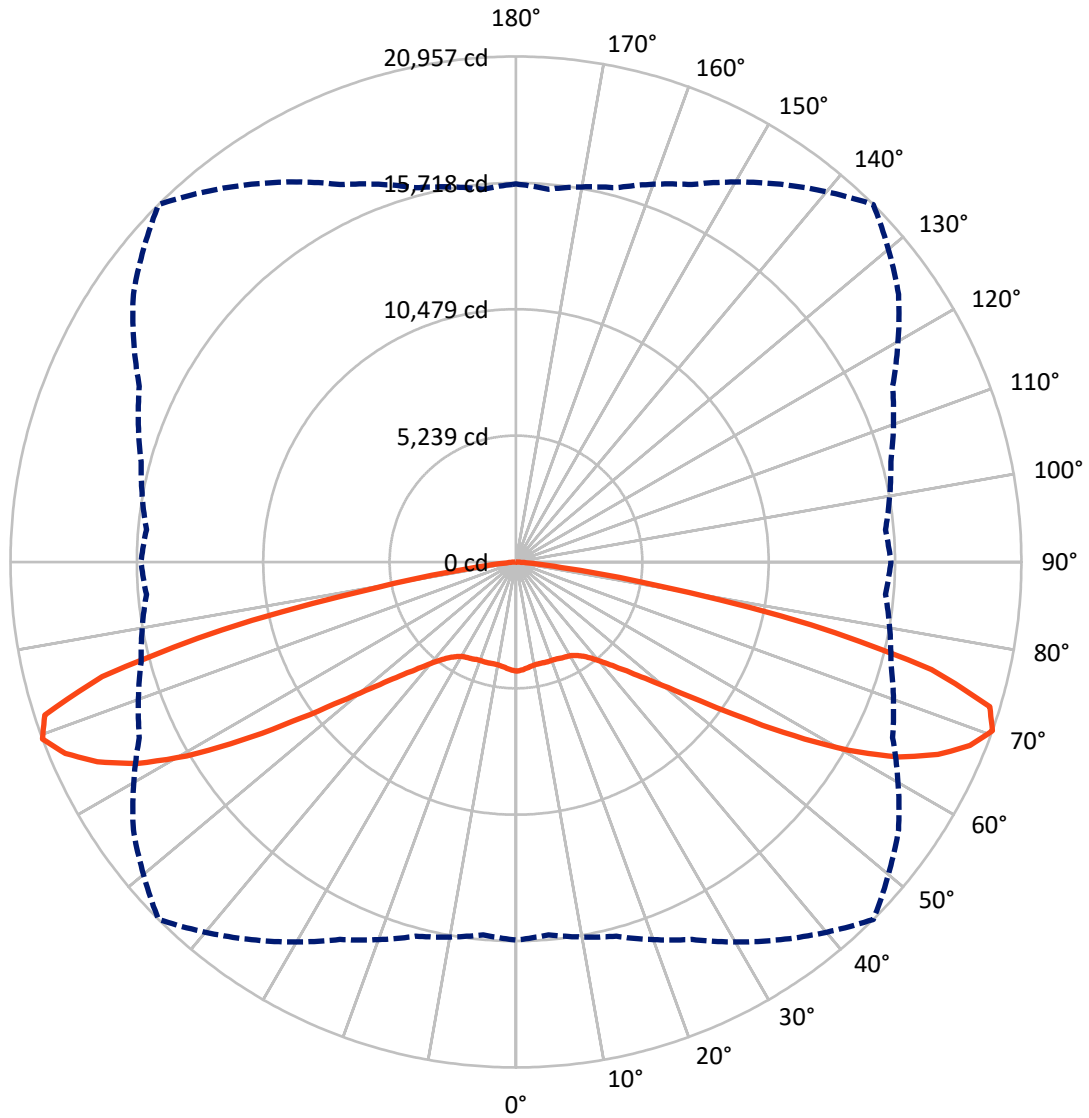
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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	24812.0	0.0	24812.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24812.0	0.0	24812.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	49624.0	0.0	49624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	421.1	0.8
10°-20°	1236.4	2.5
20°-30°	2057.6	4.1
30°-40°	3111.7	6.3
40°-50°	5170.9	10.4
50°-60°	9757.3	19.7
60°-70°	16475.6	33.2
70°-80°	10826.2	21.8
80°-90°	567.2	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°	49624.0	100.0
0°-180°	49624.0	100.0

Coefficient of Utilization



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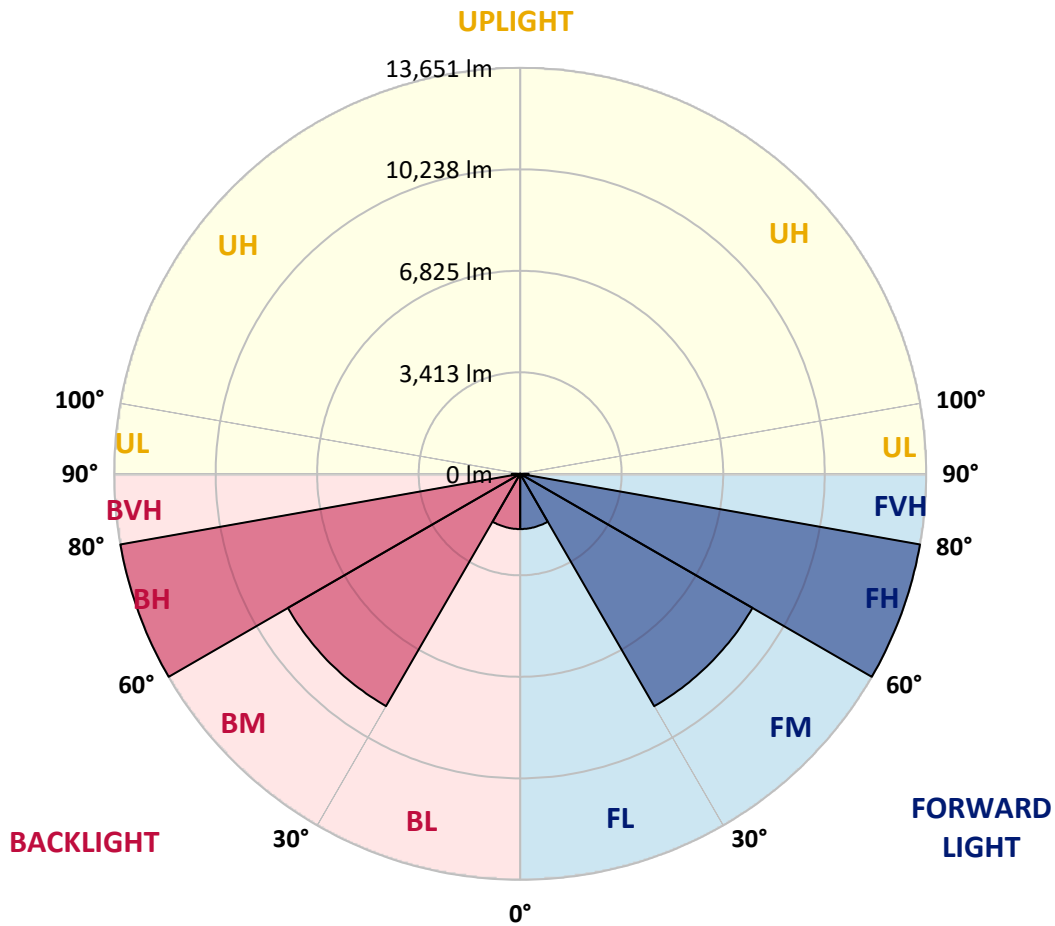
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1857.6	3.7			
FM (30°-60°)	9020.0	18.2			
FH (60°-80°)	13650.9	27.5			G5
FVH (80°-90°)	283.6	0.6			G3/500
BL (0°-30°)	1857.6	3.7	B3/2500		
BM (30°-60°)	9020.0	18.2	B5		
BH (60°-80°)	13650.9	27.5	B5		G5
BVH (80°-90°)	283.6	0.6			G3/500
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°	4526.7	4526.7	4526.7	4526.7	4526.7	4526.7	4526.7	4526.7	4526.7	4526.7
2.5°	4498.3	4511.2	4506.1	4495.8	4495.8	4488.0	4495.8	4500.9	4508.7	4513.8
5°	4439.0	4449.3	4446.7	4439.0	4441.6	4433.9	4439.0	4446.7	4451.9	4454.5
7.5°	4387.4	4397.7	4392.6	4379.7	4379.7	4371.9	4374.5	4382.3	4390.0	4392.6
10°	4374.5	4384.8	4369.4	4348.7	4341.0	4330.7	4333.3	4341.0	4356.5	4364.2
12.5°	4379.7	4387.4	4371.9	4341.0	4333.3	4322.9	4322.9	4330.7	4351.3	4361.6
15°	4395.2	4402.9	4379.7	4346.2	4338.4	4330.7	4328.1	4338.4	4361.6	4379.7
17.5°	4423.5	4431.3	4395.2	4348.7	4338.4	4341.0	4338.4	4346.2	4382.3	4415.8
20°	4449.3	4454.5	4405.5	4348.7	4338.4	4341.0	4338.4	4353.9	4400.3	4446.7
22.5°	4457.1	4462.2	4415.8	4366.8	4359.1	4361.6	4359.1	4374.5	4418.4	4464.8
25°	4459.6	4467.4	4431.3	4392.6	4405.5	4410.6	4405.5	4408.1	4441.6	4482.9
27.5°	4498.3	4508.7	4475.1	4441.6	4449.3	4446.7	4454.5	4462.2	4488.0	4529.3
30°	4578.3	4586.0	4557.7	4524.1	4519.0	4500.9	4524.1	4549.9	4578.3	4614.4
32.5°	4709.8	4725.3	4689.2	4653.1	4629.9	4619.6	4637.6	4681.5	4720.2	4758.8
35°	4929.1	4939.4	4905.9	4838.8	4797.5	4797.5	4813.0	4869.8	4931.7	4980.7
37.5°	5238.6	5251.5	5192.2	5112.2	5050.3	5050.3	5070.9	5130.3	5223.1	5292.8
40°	5615.2	5633.2	5558.4	5475.9	5416.6	5406.3	5432.0	5499.1	5586.8	5674.5
42.5°	6069.1	6089.8	5991.8	5919.5	5873.1	5873.1	5886.0	5947.9	6027.9	6136.2
45°	6649.5	6685.6	6551.5	6479.3	6435.4	6445.7	6453.5	6507.6	6579.8	6703.7
47.5°	7340.7	7376.9	7235.0	7160.2	7152.5	7201.5	7170.5	7209.2	7247.9	7389.8
50°	8124.9	8186.8	8088.7	8083.6	8099.1	8189.3	8117.1	8137.8	8093.9	8184.2
52.5°	9084.4	9174.6	9156.6	9187.5	9360.4	9546.1	9381.0	9308.8	9143.7	9172.1
55°	10247.6	10384.3	10410.1	10595.8	10987.9	11367.1	11016.3	10724.8	10374.0	10309.5
57.5°	11570.8	11679.2	11803.0	12182.1	12914.7	13587.9	12914.7	12269.8	11717.9	11586.3
60°	12994.6	13128.7	13247.4	13807.1	14895.6	15842.2	14874.9	13851.0	13121.0	12943.0
62.5°	14524.2	14697.0	14779.5	15401.1	16670.2	17799.9	16688.2	15447.6	14637.6	14446.8
65°	15991.8	16133.7	16226.5	16889.4	18101.7	19234.0	18184.2	16961.6	16128.5	15878.3
67.5°	16675.3	16752.7	16979.7	17730.3	19009.6	20301.8	19226.3	17810.2	16879.1	16440.6
70°	15674.5	15517.2	16064.0	17266.0	19117.9	20957.0	19365.5	17229.9	16089.8	15377.9
72.5°	12112.5	11841.7	12790.9	14846.6	17879.9	20539.1	18003.7	14962.6	13381.5	11937.1
75°	6590.2	6283.2	7593.5	10193.5	14258.5	17802.5	14586.1	10484.9	8455.0	6541.2
77.5°	1859.7	1743.6	2801.1	4931.7	8576.2	12499.4	8906.4	5040.0	3322.2	1970.6
80°	570.0	552.0	748.0	1485.7	3642.0	5986.6	3500.1	1503.7	951.8	601.0
82.5°	337.9	309.5	371.4	541.7	928.6	1880.3	902.8	564.9	454.0	304.4
85°	193.4	180.6	219.2	263.1	312.1	399.8	260.5	268.2	242.5	162.5
87.5°	80.0	72.2	85.1	82.5	72.2	92.9	69.6	82.5	98.0	64.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4526.7
4511.2
4454.5
4392.6
4364.2
4364.2
4382.3
4415.8
4449.3
4464.8
4480.3
4519.0
4606.7
4743.4
4962.6
5267.0
5646.1
6128.5
6698.5
7348.5
8130.0
9076.6
10209.0
11493.5
12788.3
14292.0
15754.5
16445.7
15548.1
12295.6
6966.7
2189.8
634.5
330.2
170.2
59.3
0.0

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