

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: P955393

Luminaire Tested: **GALN-SB8B-840-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955393
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-SB8B-840-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45612 lumens
Efficiency: N/A
Efficacy: 155.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

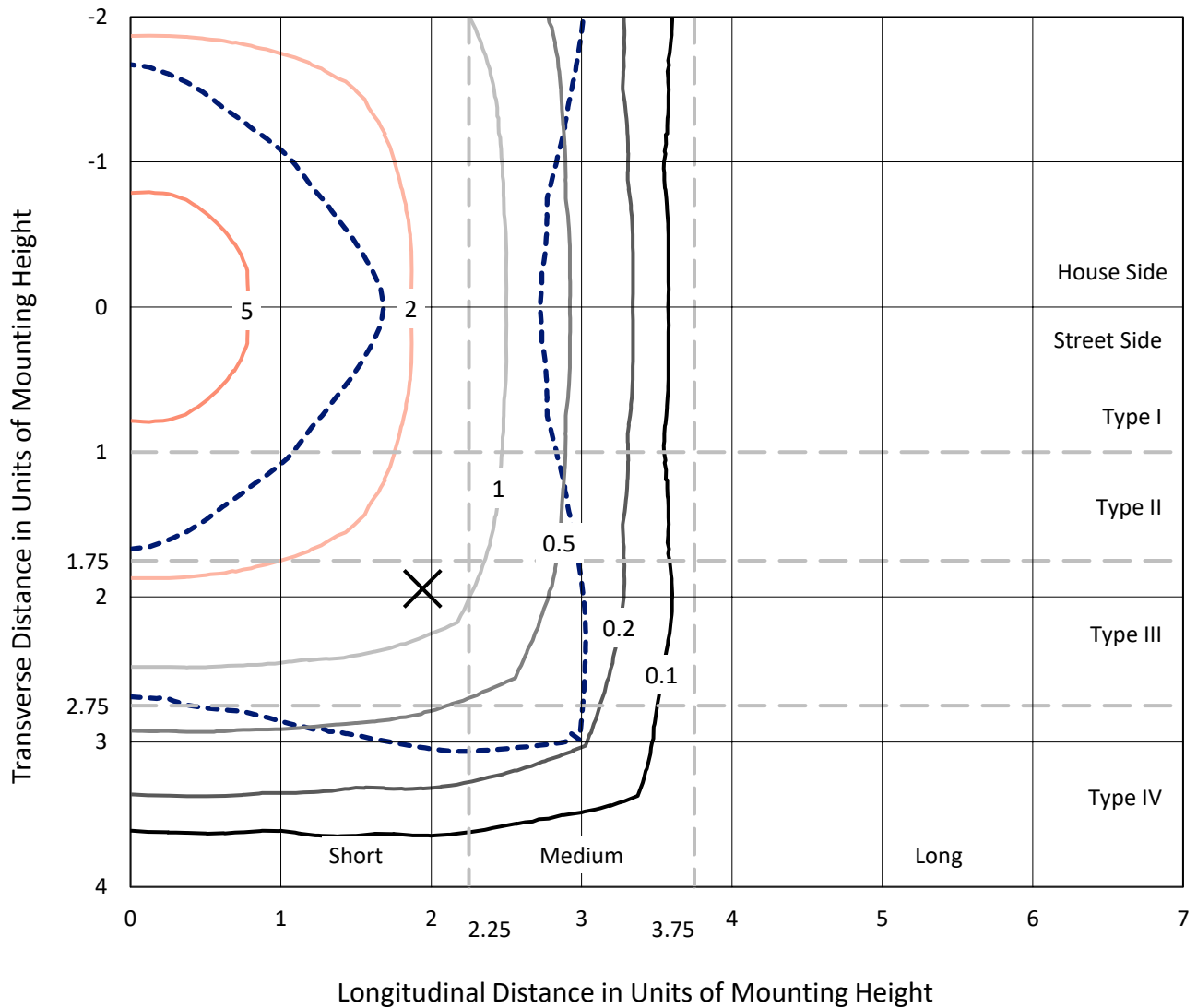
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

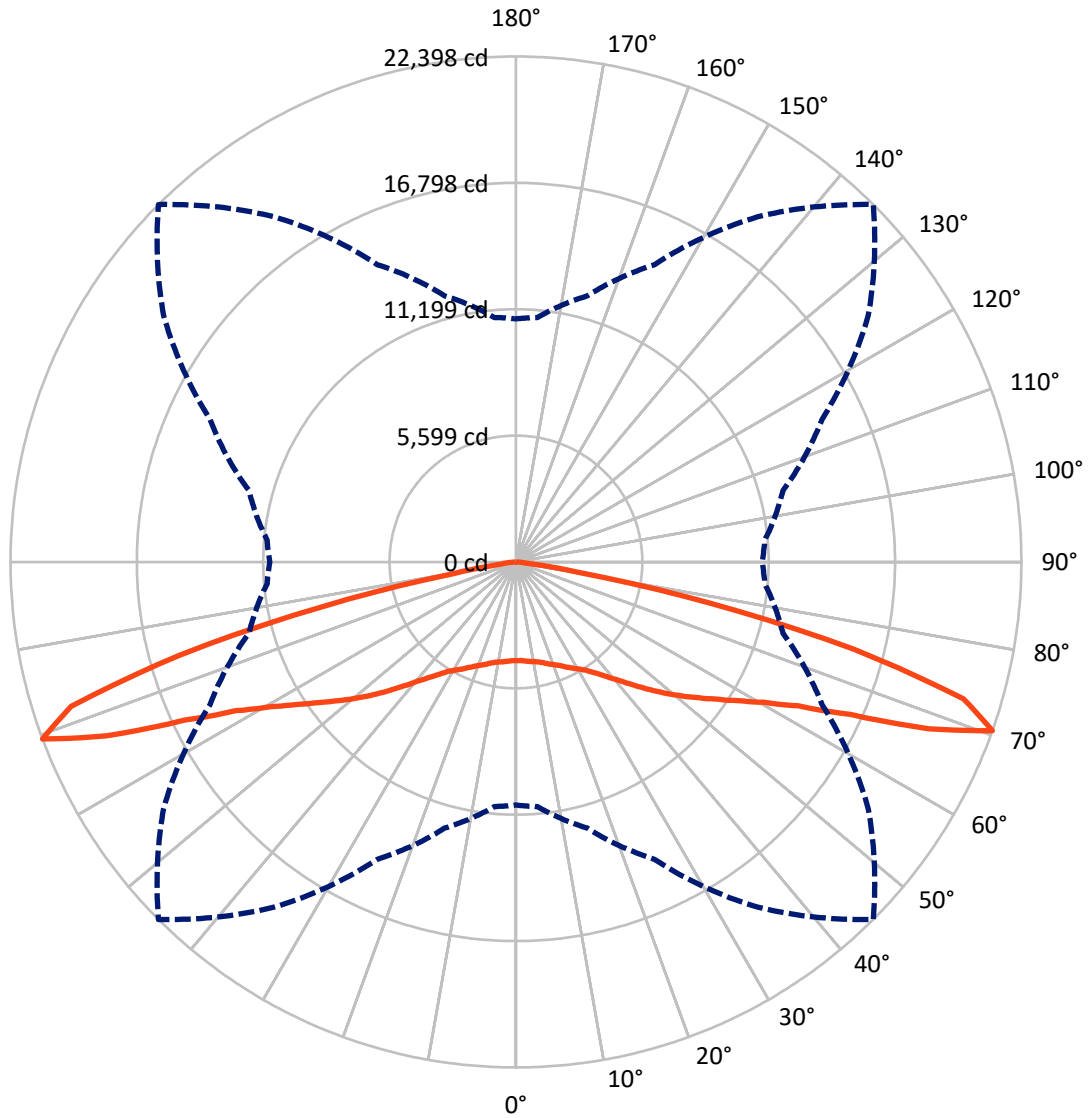
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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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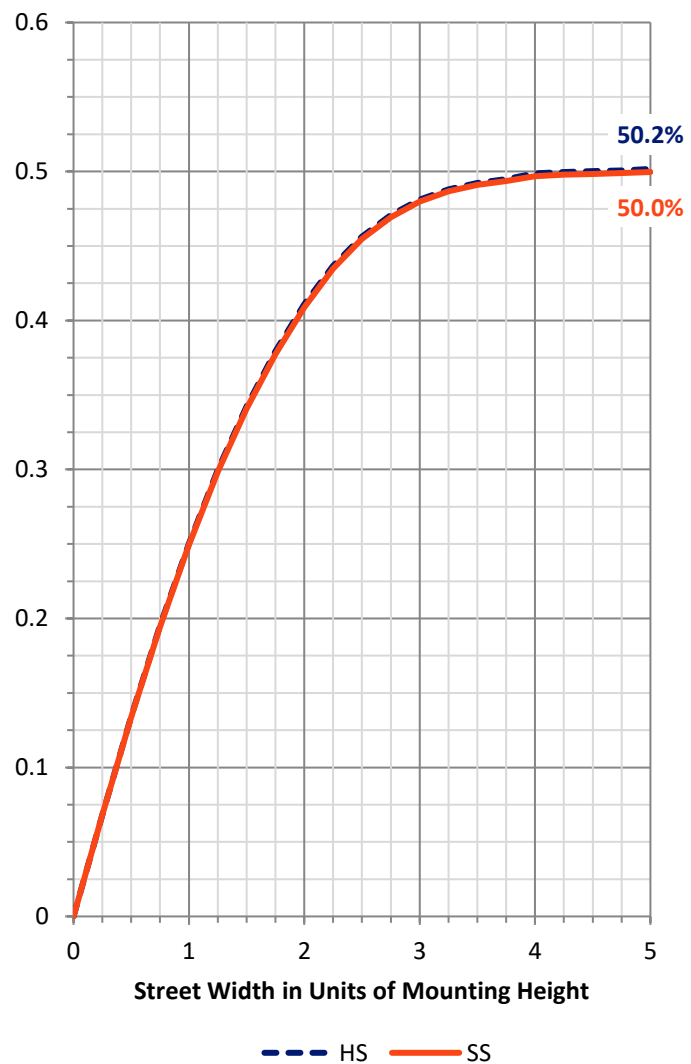
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22806.0	0.0	22806.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22806.0	0.0	22806.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	45612.0	0.0	45612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.5	0.9
10°-20°	1316.2	2.9
20°-30°	2352.2	5.2
30°-40°	3812.9	8.4
40°-50°	6210.6	13.6
50°-60°	9469.1	20.8
60°-70°	14087.0	30.9
70°-80°	7677.9	16.8
80°-90°	261.5	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°	45612.0	100.0
0°-180°	45612.0	100.0

Coefficient of Utilization



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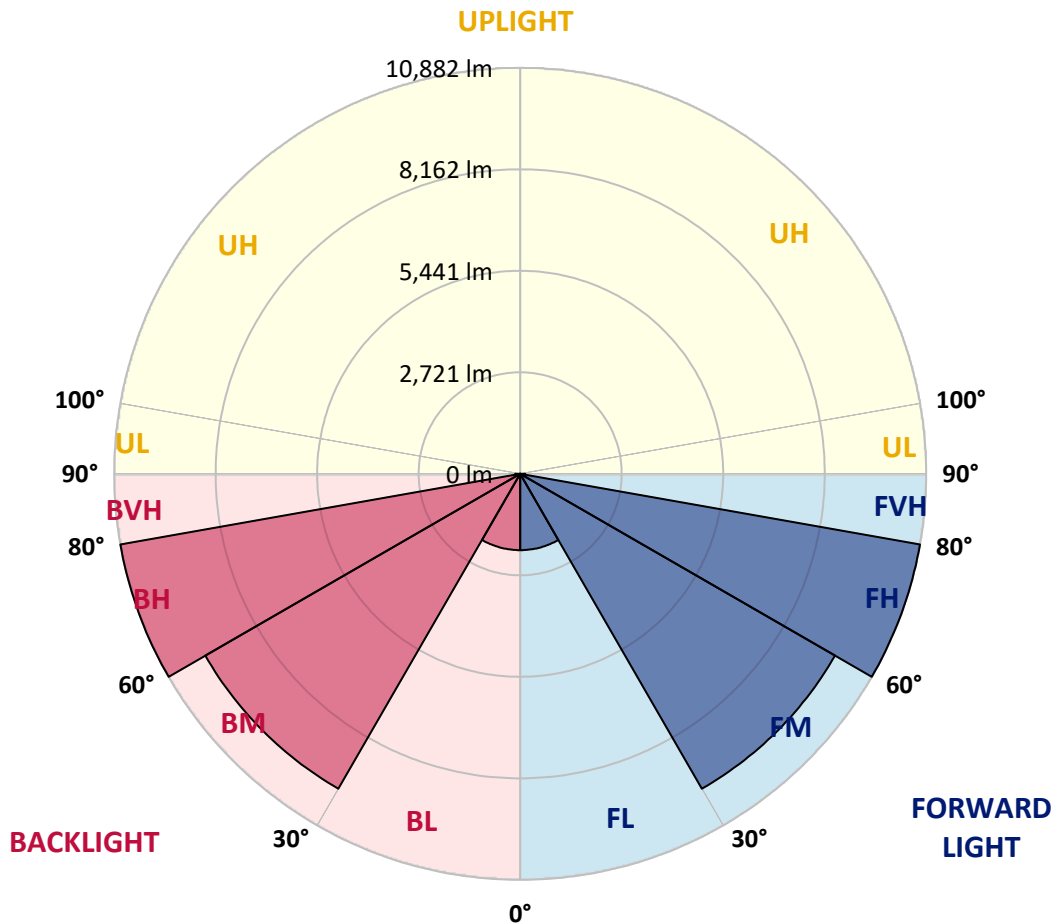
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2046.5	4.5			
FM (30°-60°)	9746.3	21.4			
FH (60°-80°)	10882.5	23.9			G4/12000
FVH (80°-90°)	130.7	0.3			G2/225
BL (0°-30°)	2046.5	4.5	B3/2500		
BM (30°-60°)	9746.3	21.4	B5		
BH (60°-80°)	10882.5	23.9	B5		G4/12000
BVH (80°-90°)	130.7	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4369.2	4369.2	4369.2	4369.2	4369.2	4369.2	4369.2	4369.2	4369.2	4369.2
2.5°	4389.8	4394.3	4385.2	4380.6	4376.0	4369.2	4371.4	4382.9	4392.1	4389.8
5°	4426.4	4431.0	4424.1	4421.8	4412.7	4410.4	4410.4	4421.8	4428.7	4424.1
7.5°	4467.6	4474.5	4463.0	4460.8	4456.2	4451.6	4449.3	4460.8	4467.6	4467.6
10°	4506.6	4513.4	4504.3	4497.4	4492.8	4492.8	4488.2	4497.4	4508.8	4506.6
12.5°	4547.8	4552.4	4543.2	4538.6	4538.6	4545.5	4538.6	4543.2	4552.4	4547.8
15°	4598.1	4600.4	4598.1	4605.0	4616.5	4639.4	4618.8	4614.2	4618.8	4607.3
17.5°	4666.8	4671.4	4680.6	4696.6	4712.6	4753.9	4717.2	4705.8	4705.8	4682.9
20°	4751.6	4758.4	4772.2	4799.7	4820.3	4859.2	4822.6	4806.5	4799.7	4769.9
22.5°	4840.9	4852.3	4872.9	4909.6	4946.2	4982.9	4946.2	4918.7	4898.1	4859.2
25°	4943.9	4957.7	4989.7	5049.3	5099.6	5152.3	5108.8	5053.8	5012.6	4957.7
27.5°	5090.5	5106.5	5145.4	5218.7	5282.8	5328.6	5287.4	5216.4	5159.2	5092.8
30°	5296.6	5312.6	5358.4	5436.3	5479.8	5509.5	5482.1	5427.1	5358.4	5282.8
32.5°	5562.2	5582.8	5633.2	5706.5	5715.6	5720.2	5711.0	5683.6	5633.2	5541.6
35°	5898.8	5921.7	5979.0	6038.5	6029.3	6038.5	6024.8	6015.6	5979.0	5873.6
37.5°	6311.0	6338.5	6398.0	6443.8	6420.9	6409.5	6411.8	6414.1	6393.4	6276.7
40°	6789.6	6826.2	6869.7	6917.8	6878.9	6844.6	6867.5	6885.8	6867.5	6748.4
42.5°	7281.9	7334.6	7380.4	7449.1	7417.0	7373.5	7405.6	7426.2	7387.3	7259.0
45°	7829.2	7879.6	7939.1	8042.2	8019.3	7973.5	8019.3	8023.9	7957.5	7806.3
47.5°	8394.8	8447.5	8536.8	8674.2	8665.0	8614.7	8674.2	8642.1	8557.4	8376.5
50°	8930.7	9003.9	9141.3	9333.7	9352.0	9290.2	9370.3	9308.5	9166.5	8939.8
52.5°	9434.4	9512.3	9729.8	9990.9	10057.3	9977.2	10084.8	9977.2	9764.2	9473.4
55°	9963.4	10050.4	10309.2	10650.4	10783.2	10723.7	10824.4	10661.8	10359.6	10006.9
57.5°	10586.3	10638.9	10948.1	11353.4	11577.8	11591.5	11637.3	11362.6	10996.2	10595.4
60°	11261.8	11335.1	11671.7	12157.2	12512.1	12626.6	12578.5	12170.9	11745.0	11284.7
62.5°	12127.4	12207.5	12610.6	13192.2	13753.2	14037.2	13849.4	13258.6	12731.9	12180.1
65°	12844.1	12933.4	13661.6	14699.0	15720.3	16290.5	15818.7	14731.0	13783.0	13004.4
67.5°	12324.3	12434.2	13576.9	15482.1	18021.6	19723.0	18108.6	15715.7	13858.6	12802.9
70°	10771.8	10874.8	12207.5	14536.4	18669.7	22397.7	19059.0	14964.6	12251.0	11069.4
72.5°	7151.4	7483.4	8832.2	11625.9	16670.6	20726.0	16835.5	11390.0	8193.3	7135.4
75°	2372.4	2638.0	3558.5	6027.1	11165.6	15500.4	10629.8	5333.2	2818.9	2028.9
77.5°	597.7	689.3	950.3	1724.3	4453.9	8825.3	4009.6	1408.3	767.1	535.8
80°	290.8	320.6	458.0	574.8	1115.2	2805.1	1046.5	540.4	361.8	279.4
82.5°	160.3	162.6	258.8	325.2	414.5	725.9	430.5	316.0	208.4	169.5
85°	98.5	96.2	137.4	174.0	174.0	258.8	206.1	174.0	119.1	105.3
87.5°	38.9	38.9	50.4	55.0	48.1	66.4	52.7	57.2	45.8	43.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4369.2
4392.1
4426.4
4467.6
4506.6
4545.5
4607.3
4682.9
4769.9
4856.9
4955.4
5090.5
5282.8
5543.9
5873.6
6276.7
6748.4
7268.2
7822.3
8365.1
8935.2
9445.9
9958.8
10540.5
11211.4
12083.9
12876.2
12644.9
10911.4
6904.1
1918.9
478.6
256.5
169.5
109.9
45.8
0.0

OF REPORT)