

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: P956842

Luminaire Tested: **GALN-SB9B-850-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956842  
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-SB9B-850-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

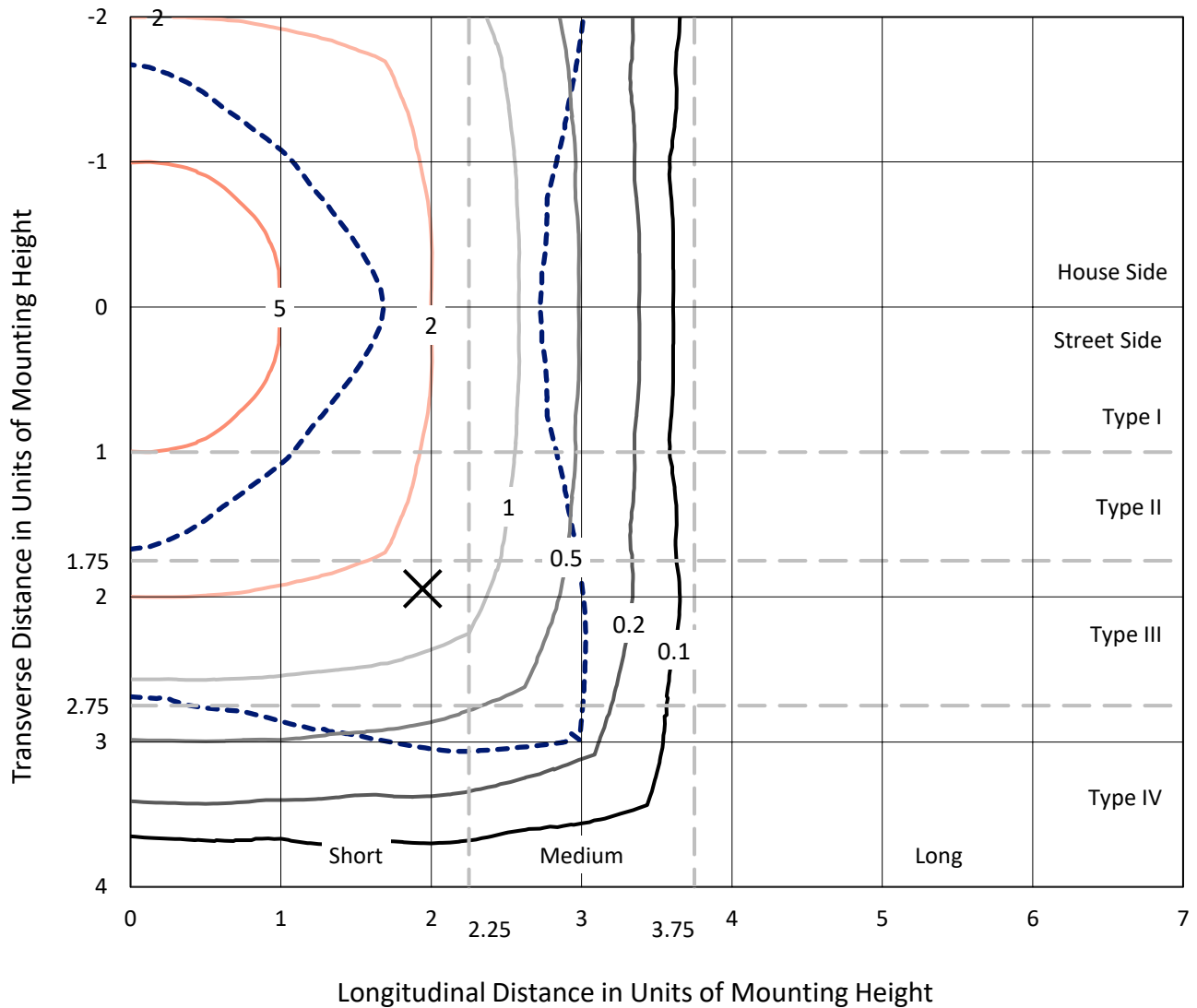
Lumens per Lamp: N/A  
Luminaire Lumens: 51378 lumens  
Efficiency: N/A  
Efficacy: 155.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

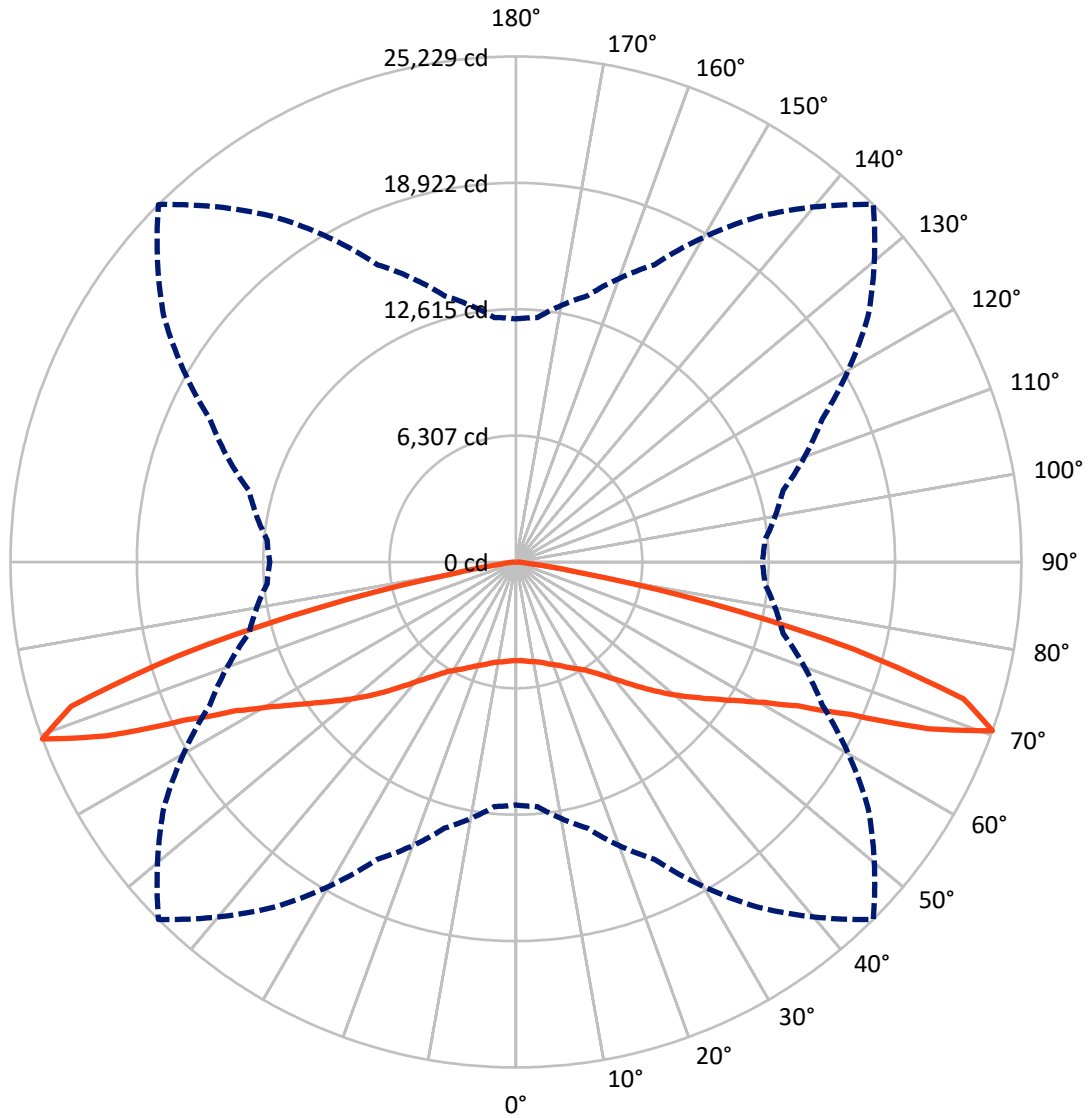
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 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
<b>House Side</b>	Lumens	25689.0	0.0	25689.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25689.0	0.0	25689.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51378.0	0.0	51378.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.1	0.9
10°-20°	1482.6	2.9
20°-30°	2649.6	5.2
30°-40°	4294.9	8.4
40°-50°	6995.8	13.6
50°-60°	10666.2	20.8
60°-70°	15867.8	30.9
70°-80°	8648.5	16.8
80°-90°	294.5	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°	51378.0	100.0
0°-180°	51378.0	100.0

**Coefficient of Utilization**



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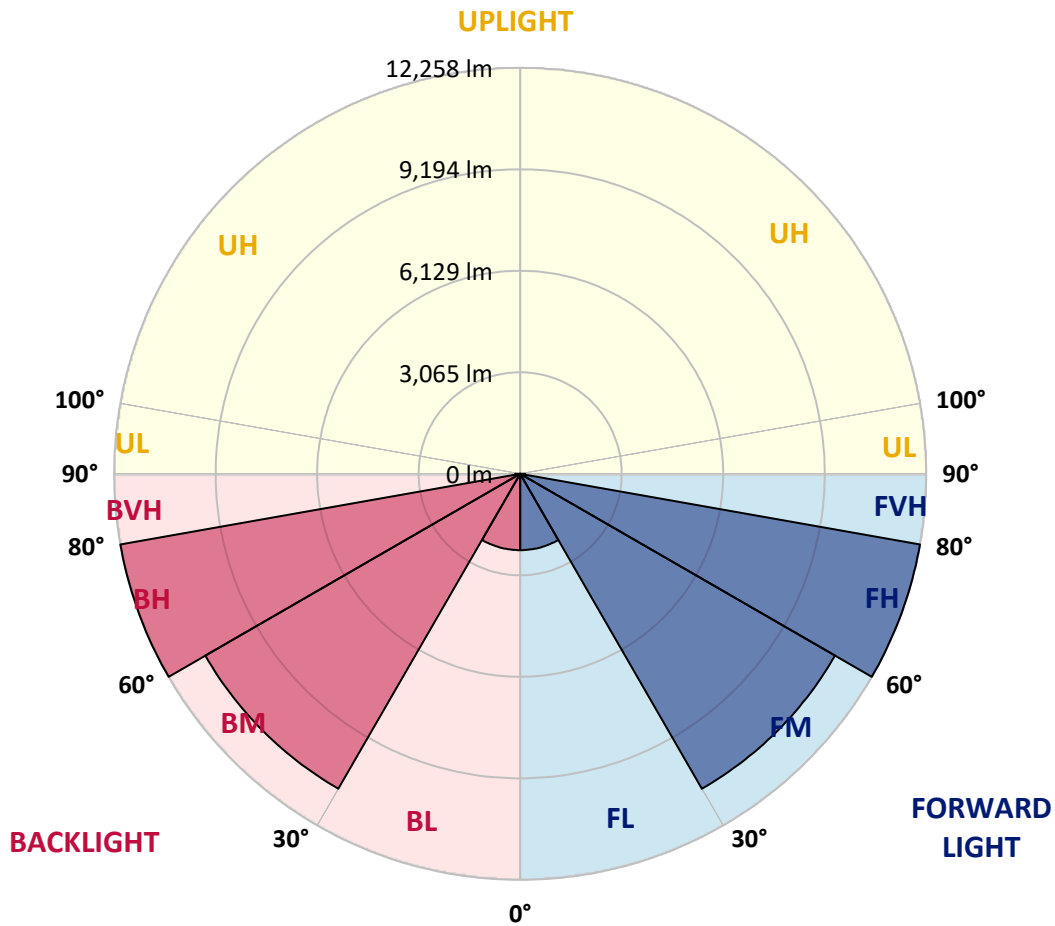
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2305.2	4.5			
FM (30°-60°)	10978.4	21.4			
FH (60°-80°)	12258.2	23.9			G5
FVH (80°-90°)	147.3	0.3			G2/225
BL (0°-30°)	2305.2	4.5	B3/2500		
BM (30°-60°)	10978.4	21.4	B5		
BH (60°-80°)	12258.2	23.9	B5		G5
BVH (80°-90°)	147.3	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°	4921.5	4921.5	4921.5	4921.5	4921.5	4921.5	4921.5	4921.5	4921.5	4921.5
2.5°	4944.7	4949.9	4939.5	4934.4	4929.2	4921.5	4924.1	4937.0	4947.3	4944.7
5°	4986.0	4991.1	4983.4	4980.8	4970.5	4967.9	4967.9	4980.8	4988.5	4983.4
7.5°	5032.4	5040.1	5027.2	5024.7	5019.5	5014.3	5011.8	5024.7	5032.4	5032.4
10°	5076.2	5084.0	5073.7	5065.9	5060.8	5060.8	5055.6	5065.9	5078.8	5076.2
12.5°	5122.7	5127.8	5117.5	5112.4	5112.4	5120.1	5112.4	5117.5	5127.8	5122.7
15°	5179.4	5182.0	5179.4	5187.2	5200.1	5225.8	5202.6	5197.5	5202.6	5189.7
17.5°	5256.8	5262.0	5272.3	5290.3	5308.4	5354.8	5313.5	5300.7	5300.7	5274.9
20°	5352.2	5360.0	5375.5	5406.4	5429.6	5473.5	5432.2	5414.1	5406.4	5372.9
22.5°	5452.8	5465.7	5488.9	5530.2	5571.5	5612.8	5571.5	5540.5	5517.3	5473.5
25°	5568.9	5584.4	5620.5	5687.6	5744.3	5803.6	5754.6	5692.7	5646.3	5584.4
27.5°	5734.0	5752.0	5795.9	5878.4	5950.7	6002.2	5955.8	5875.9	5811.4	5736.6
30°	5966.1	5984.2	6035.8	6123.5	6172.5	6206.0	6175.1	6113.2	6035.8	5950.7
32.5°	6265.3	6288.6	6345.3	6427.8	6438.2	6443.3	6433.0	6402.1	6345.3	6242.1
35°	6644.5	6670.3	6734.8	6801.9	6791.5	6801.9	6786.4	6776.1	6734.8	6616.1
37.5°	7108.8	7139.8	7206.8	7258.4	7232.6	7219.7	7222.3	7224.9	7201.7	7070.1
40°	7647.9	7689.2	7738.2	7792.3	7748.5	7709.8	7735.6	7756.2	7735.6	7601.5
42.5°	8202.5	8261.8	8313.4	8390.8	8354.7	8305.6	8341.8	8365.0	8321.1	8176.7
45°	8818.9	8875.7	8942.8	9058.8	9033.0	8981.4	9033.0	9038.2	8963.4	8793.1
47.5°	9456.1	9515.4	9616.0	9770.7	9760.4	9703.7	9770.7	9734.6	9639.2	9435.4
50°	10059.6	10142.2	10296.9	10513.6	10534.2	10464.6	10554.9	10485.2	10325.3	10069.9
52.5°	10627.1	10714.8	10959.8	11253.9	11328.7	11238.4	11359.6	11238.4	10998.5	10670.9
55°	11222.9	11321.0	11612.4	11996.8	12146.4	12079.3	12192.8	12009.7	11669.2	11271.9
57.5°	11924.5	11983.9	12332.1	12788.6	13041.4	13056.9	13108.5	12798.9	12386.2	11934.8
60°	12685.5	12768.0	13147.2	13694.0	14093.8	14222.8	14168.6	13709.5	13229.7	12711.2
62.5°	13660.5	13750.7	14204.7	14859.9	15491.8	15811.7	15600.2	14934.7	14341.4	13719.8
65°	14467.8	14568.4	15388.7	16557.1	17707.5	18349.8	17818.4	16593.2	15525.4	14648.4
67.5°	13882.3	14006.1	15293.2	17439.3	20299.8	22216.3	20397.8	17702.4	15610.5	14421.4
70°	12133.5	12249.5	13750.7	16374.0	21029.8	25229.0	21468.3	16856.3	13799.7	12468.8
72.5°	8055.4	8429.5	9948.7	13095.6	18778.0	23346.1	18963.7	12829.9	9229.1	8037.4
75°	2672.3	2971.5	4008.4	6789.0	12577.1	17459.9	11973.5	6007.4	3175.2	2285.3
77.5°	673.2	776.4	1070.4	1942.3	5016.9	9941.0	4516.5	1586.3	864.1	603.6
80°	327.6	361.1	515.9	647.4	1256.2	3159.8	1178.8	608.7	407.5	314.7
82.5°	180.6	183.1	291.5	366.3	466.9	817.7	484.9	356.0	234.7	190.9
85°	110.9	108.3	154.8	196.0	196.0	291.5	232.1	196.0	134.1	118.7
87.5°	43.8	43.8	56.7	61.9	54.2	74.8	59.3	64.5	51.6	49.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4921.5
4947.3
4986.0
5032.4
5076.2
5120.1
5189.7
5274.9
5372.9
5470.9
5581.8
5734.0
5950.7
6244.7
6616.1
7070.1
7601.5
8187.0
8811.2
9422.5
10064.8
10640.0
11217.8
11872.9
12628.7
13611.5
14503.9
14243.4
12290.8
7776.9
2161.5
539.1
288.9
190.9
123.8
51.6
0.0

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