

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: P955058

Luminaire Tested: **GALN-SB8A-850-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955058  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-850-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

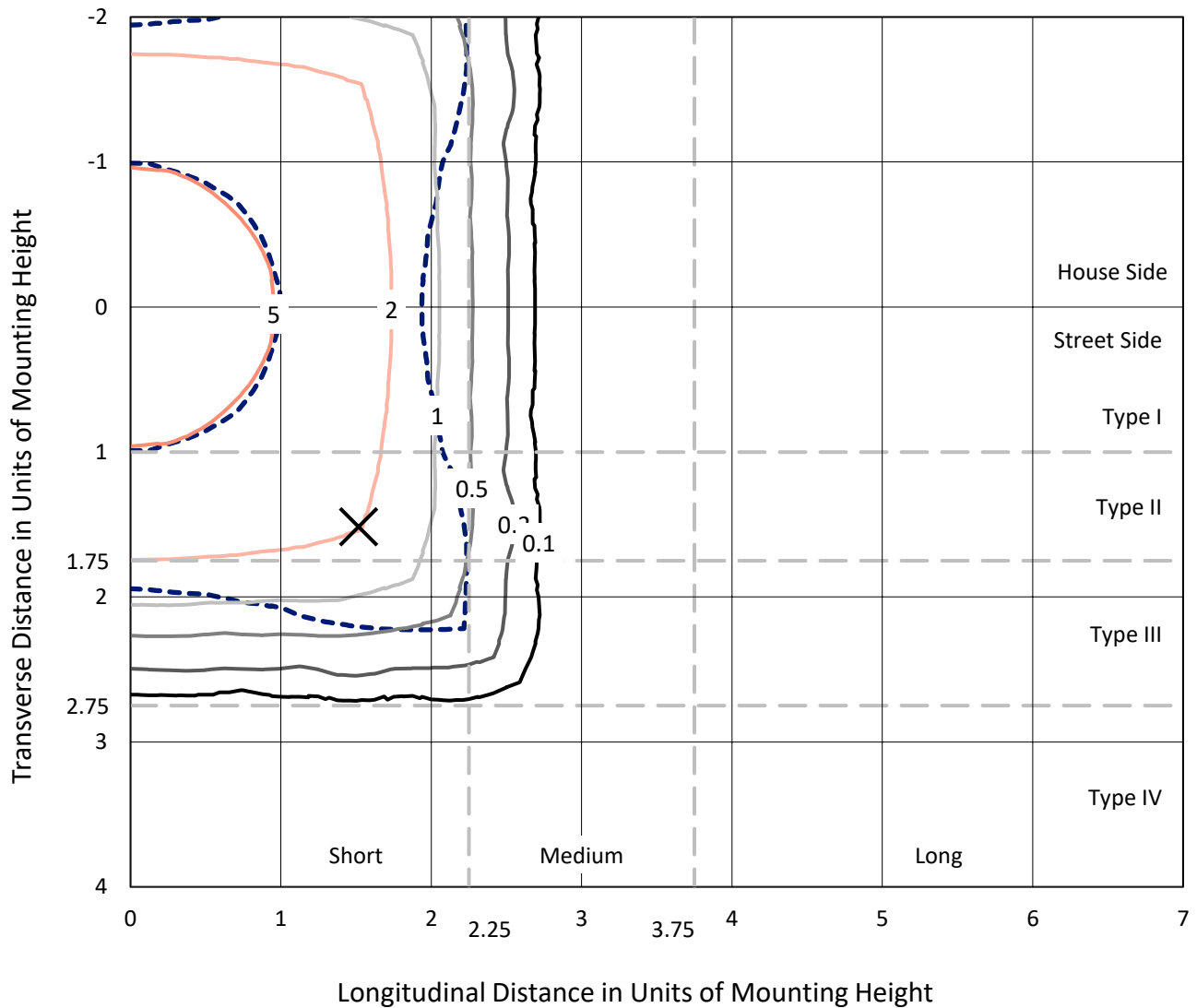
Lumens per Lamp: N/A  
Luminaire Lumens: 36357 lumens  
Efficiency: N/A  
Efficacy: 160.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 227.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

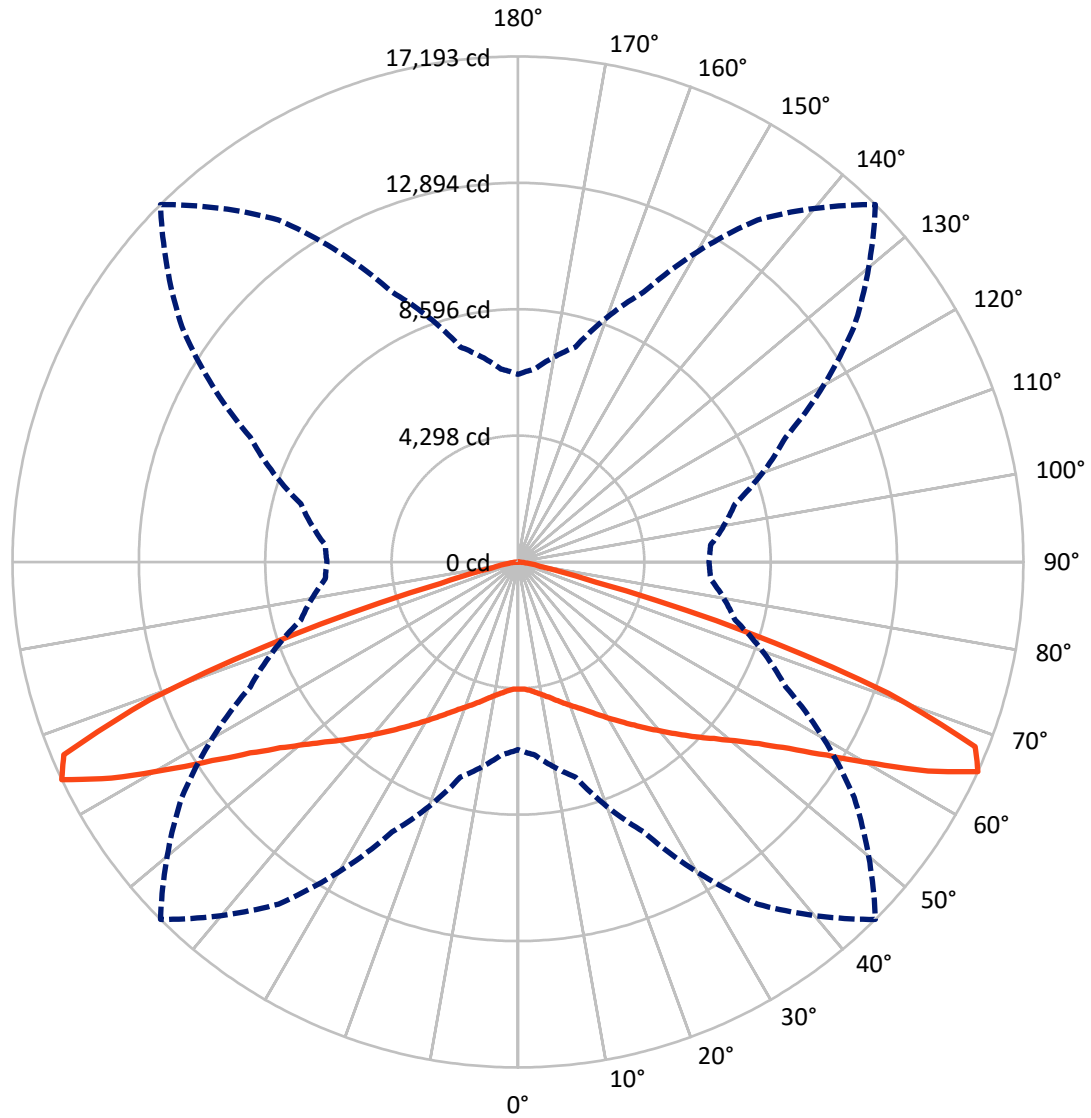
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18178.5	0.0	18178.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18178.5	0.0	18178.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36357.0	0.0	36357.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.0	1.2
10°-20°	1393.4	3.8
20°-30°	2630.9	7.2
30°-40°	4308.0	11.8
40°-50°	6679.6	18.4
50°-60°	9867.1	27.1
60°-70°	9392.6	25.8
70°-80°	1515.6	4.2
80°-90°	142.9	0.4
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°	36357.0	100.0
0°-180°	36357.0	100.0

**Coefficient of Utilization**



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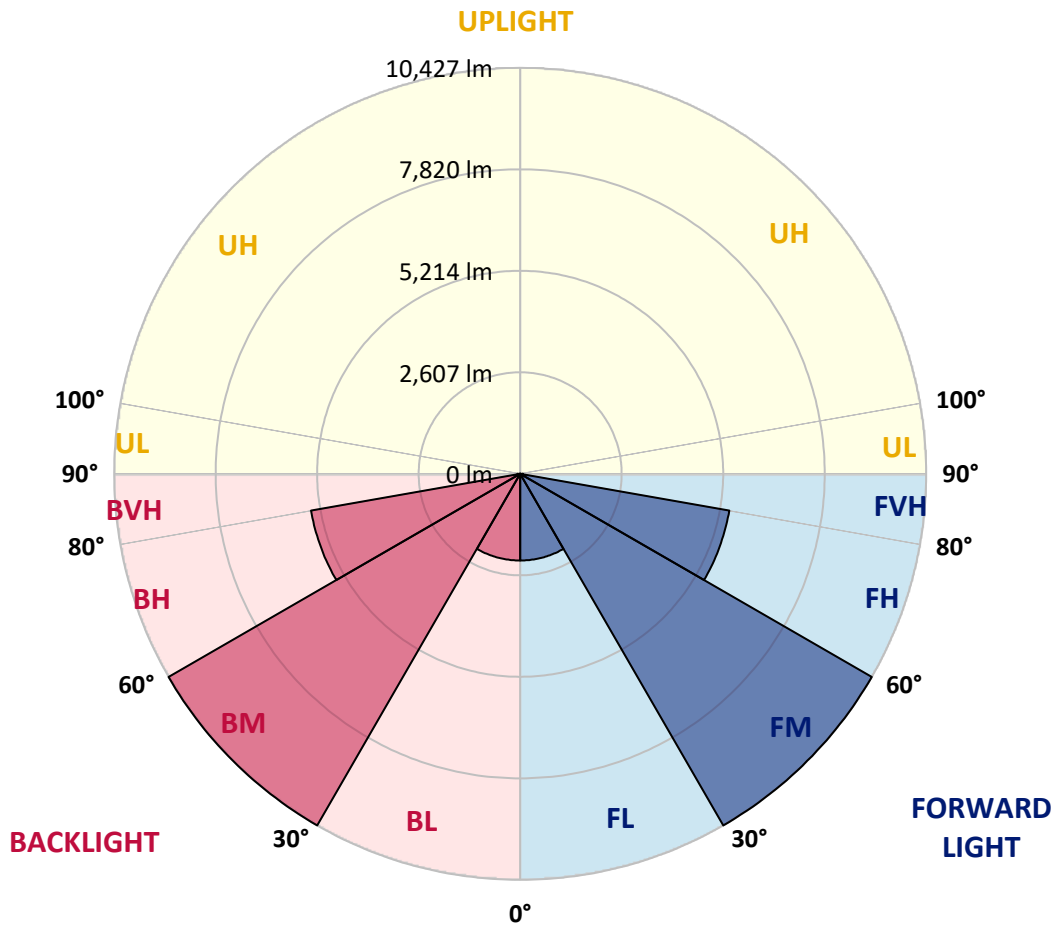
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2225.6	6.1			
FM (30°-60°)	10427.3	28.7			
FH (60°-80°)	5454.1	15.0			G3/7500
FVH (80°-90°)	71.4	0.2			G1/100
BL (0°-30°)	2225.6	6.1	B3/2500		
BM (30°-60°)	10427.3	28.7	B5		
BH (60°-80°)	5454.1	15.0	B5		G3/7500
BVH (80°-90°)	71.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8	4326.8
2.5°	4356.0	4341.4	4352.4	4343.3	4336.0	4328.7	4332.3	4345.1	4350.6	4352.4
5°	4414.4	4401.6	4407.1	4407.1	4394.3	4390.7	4392.5	4401.6	4412.6	4412.6
7.5°	4509.3	4496.5	4509.3	4502.0	4491.0	4487.4	4485.5	4492.8	4509.3	4509.3
10°	4624.2	4609.6	4616.9	4613.2	4600.5	4595.0	4593.2	4604.1	4618.7	4616.9
12.5°	4750.0	4733.6	4742.7	4731.8	4728.2	4722.7	4722.7	4720.9	4730.0	4722.7
15°	4890.5	4879.6	4883.2	4875.9	4881.4	4877.7	4863.1	4855.8	4859.5	4848.5
17.5°	5056.5	5031.0	5043.7	5040.1	5040.1	5047.4	5023.7	5014.5	5021.8	5010.9
20°	5248.0	5222.5	5228.0	5220.7	5211.6	5218.8	5189.7	5197.0	5202.4	5195.1
22.5°	5457.8	5425.0	5423.2	5426.8	5406.7	5408.6	5388.5	5406.7	5417.7	5397.6
25°	5673.1	5638.4	5662.1	5653.0	5627.5	5632.9	5618.3	5636.6	5645.7	5620.2
27.5°	5901.1	5877.4	5899.3	5904.7	5873.7	5895.6	5873.7	5890.1	5899.3	5860.9
30°	6167.4	6143.7	6163.7	6178.3	6141.9	6176.5	6158.3	6169.2	6171.0	6125.4
32.5°	6457.4	6421.0	6472.0	6479.3	6439.2	6481.1	6457.4	6472.0	6481.1	6419.1
35°	6811.3	6765.7	6824.1	6815.0	6780.3	6815.0	6793.1	6815.0	6836.9	6762.1
37.5°	7192.6	7145.1	7207.2	7190.7	7157.9	7181.6	7168.8	7183.4	7218.1	7137.8
40°	7612.1	7553.7	7637.7	7608.5	7577.5	7573.8	7581.1	7590.2	7635.8	7546.4
42.5°	8060.8	7998.8	8124.7	8079.1	8035.3	8006.1	8029.8	8048.1	8091.9	7991.5
45°	8573.4	8502.3	8666.5	8611.7	8542.4	8482.2	8520.5	8547.9	8611.7	8491.3
47.5°	9138.9	9058.7	9233.8	9217.4	9104.3	8972.9	9060.5	9138.9	9186.3	9040.4
50°	9691.6	9629.6	9859.4	9879.5	9740.9	9556.6	9678.9	9797.4	9810.2	9618.7
52.5°	10209.7	10147.7	10481.5	10607.3	10483.3	10264.4	10393.9	10514.3	10417.6	10169.5
55°	10623.8	10572.7	10997.7	11322.4	11364.4	11183.8	11260.4	11256.7	10939.3	10558.1
57.5°	10724.1	10716.8	11253.1	11940.8	12378.6	12400.5	12249.1	11862.3	11178.3	10665.7
60°	10268.1	10313.7	11050.6	12263.7	13431.1	13916.3	13261.5	12157.9	10906.5	10195.1
62.5°	8903.6	9024.0	9912.3	11869.6	14281.1	15660.2	14073.2	11709.1	9790.1	8861.6
65°	6380.8	6590.6	7572.0	10129.4	14204.5	17192.5	13956.5	10047.3	7644.9	6574.2
67.5°	2894.9	3108.3	3942.0	6935.4	12347.6	16776.6	12318.4	7008.3	4139.0	3119.3
70°	1048.9	1085.4	1353.5	2776.3	7891.2	13367.3	8228.7	2796.4	1439.2	1156.5
72.5°	634.8	640.3	696.8	994.2	2741.7	8115.6	2858.4	1027.0	711.4	631.2
75°	403.1	399.5	496.2	607.4	972.3	2738.0	1019.7	607.4	494.3	450.6
77.5°	290.0	299.2	355.7	454.2	612.9	928.5	602.0	434.1	355.7	291.9
80°	217.1	222.5	259.0	353.9	430.5	578.3	383.1	321.0	268.1	182.4
82.5°	156.9	156.9	169.6	257.2	262.7	311.9	208.0	226.2	176.9	129.5
85°	93.0	91.2	105.8	153.2	136.8	114.9	94.9	138.6	111.3	80.3
87.5°	32.8	34.7	32.8	43.8	36.5	31.0	29.2	38.3	31.0	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4326.8
4352.4
4412.6
4503.8
4613.2
4726.3
4850.4
5020.0
5211.6
5417.7
5649.3
5890.1
6152.8
6461.1
6807.7
7187.1
7575.6
8044.4
8553.4
9089.7
9642.4
10176.8
10570.9
10632.9
10111.2
8806.9
6495.7
3073.7
1141.9
642.1
454.2
297.3
187.9
129.5
78.4
25.5
0.0

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