

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: P957200

Luminaire Tested: **GALN-SB9C-850-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957200  
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-SB9C-850-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

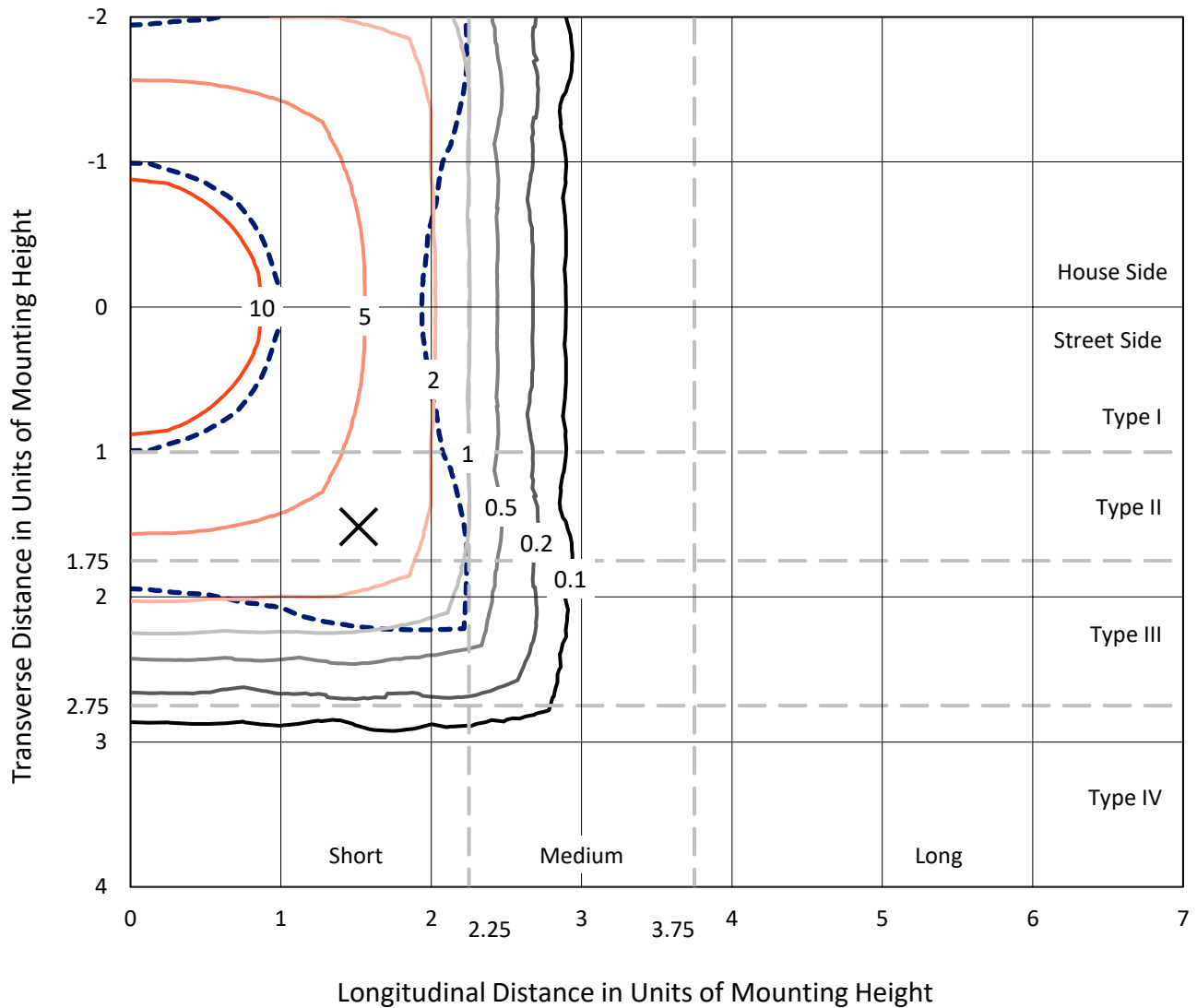
Lumens per Lamp: N/A  
Luminaire Lumens: 68372 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

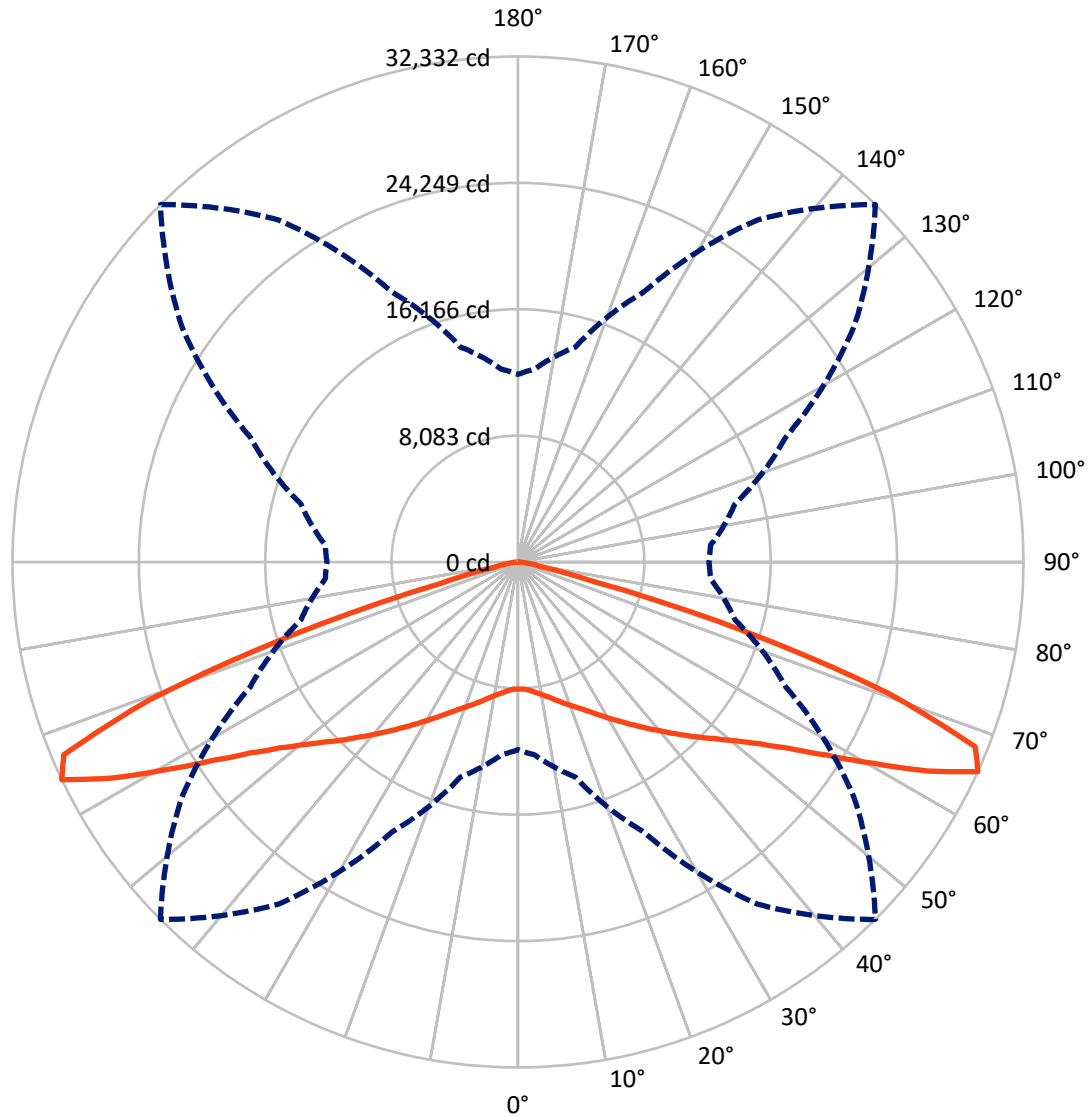
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 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	34186.0	0.0	34186.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	34186.0	0.0	34186.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	68372.0	0.0	68372.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	803.0	1.2
10°-20°	2620.4	3.8
20°-30°	4947.6	7.2
30°-40°	8101.5	11.8
40°-50°	12561.4	18.4
50°-60°	18555.8	27.1
60°-70°	17663.4	25.8
70°-80°	2850.2	4.2
80°-90°	268.7	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°	68372.0	100.0
0°-180°	68372.0	100.0

**Coefficient of Utilization**



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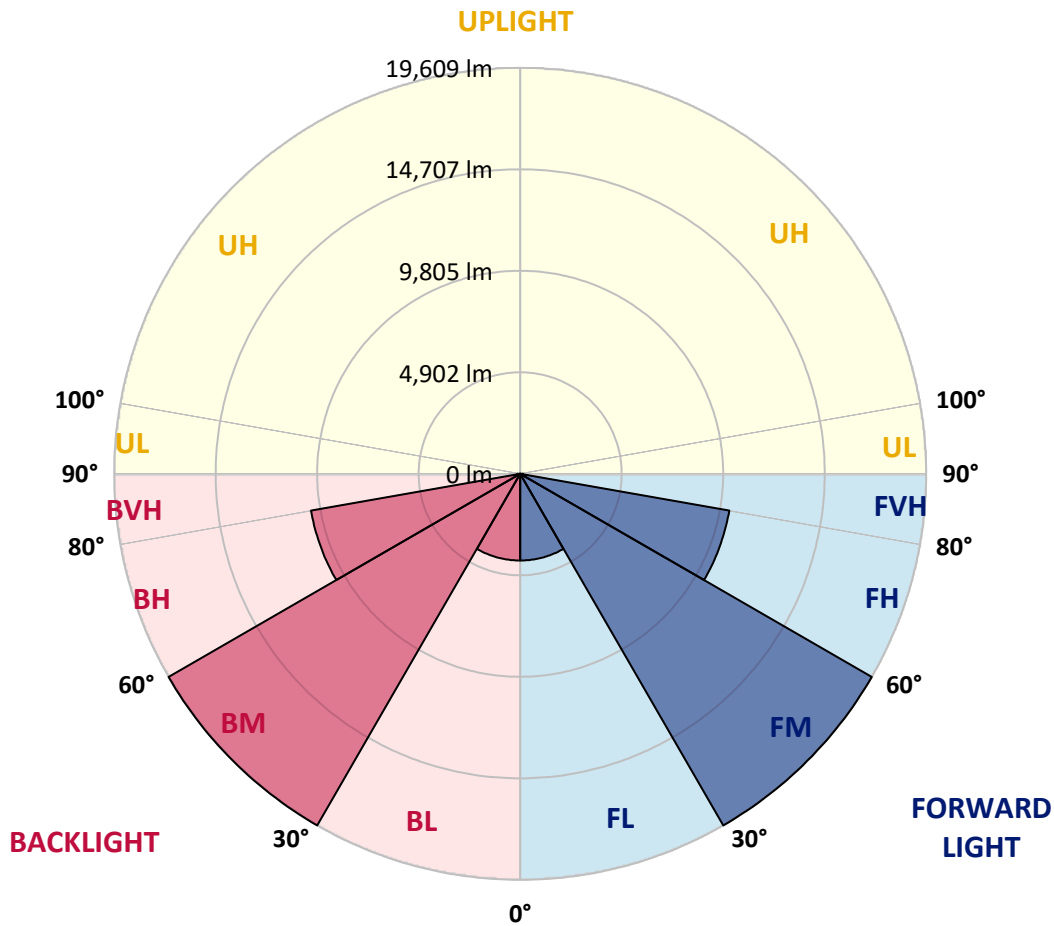
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4185.5	6.1			
FM (30°-60°)	19609.4	28.7			
FH (60°-80°)	10256.8	15.0			G4/12000
FVH (80°-90°)	134.3	0.2			G2/225
BL (0°-30°)	4185.5	6.1	B4/5000		
BM (30°-60°)	19609.4	28.7	B5		
BH (60°-80°)	10256.8	15.0	B5		G4/12000
BVH (80°-90°)	134.3	0.2			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°	8137.0	8137.0	8137.0	8137.0	8137.0	8137.0	8137.0	8137.0	8137.0	8137.0
2.5°	8191.8	8164.4	8185.0	8167.8	8154.1	8140.4	8147.2	8171.3	8181.5	8185.0
5°	8301.6	8277.6	8287.9	8287.9	8263.9	8257.0	8260.4	8277.6	8298.2	8298.2
7.5°	8480.0	8456.0	8480.0	8466.3	8445.7	8438.8	8435.4	8449.1	8480.0	8480.0
10°	8696.1	8668.7	8682.4	8675.5	8651.5	8641.2	8637.8	8658.4	8685.8	8682.4
12.5°	8932.8	8901.9	8919.1	8898.5	8891.6	8881.4	8881.4	8877.9	8895.1	8881.4
15°	9197.0	9176.4	9183.2	9169.5	9179.8	9172.9	9145.5	9131.8	9138.6	9118.1
17.5°	9509.1	9461.1	9485.1	9478.2	9478.2	9492.0	9447.4	9430.2	9443.9	9423.4
20°	9869.3	9821.3	9831.6	9817.9	9800.7	9814.4	9759.5	9773.3	9783.6	9769.8
22.5°	10263.8	10202.1	10198.6	10205.5	10167.8	10171.2	10133.5	10167.8	10188.3	10150.6
25°	10668.6	10603.4	10648.0	10630.9	10582.8	10593.1	10565.7	10600.0	10617.1	10569.1
27.5°	11097.4	11052.8	11094.0	11104.3	11045.9	11087.1	11045.9	11076.8	11094.0	11021.9
30°	11598.2	11553.6	11591.4	11618.8	11550.2	11615.4	11581.1	11601.7	11605.1	11519.3
32.5°	12143.7	12075.1	12171.1	12184.8	12109.4	12188.3	12143.7	12171.1	12188.3	12071.6
35°	12809.2	12723.4	12833.2	12816.0	12750.9	12816.0	12774.9	12816.0	12857.2	12716.6
37.5°	13526.1	13436.9	13553.6	13522.7	13461.0	13505.6	13481.5	13509.0	13574.2	13423.2
40°	14315.1	14205.4	14363.2	14308.3	14250.0	14243.1	14256.8	14274.0	14359.7	14191.6
42.5°	15159.0	15042.4	15279.1	15193.3	15111.0	15056.1	15100.7	15135.0	15217.3	15028.7
45°	16123.0	15989.2	16297.9	16195.0	16064.6	15951.4	16023.5	16074.9	16195.0	15968.6
47.5°	17186.4	17035.5	17364.8	17333.9	17121.2	16874.2	17038.9	17186.4	17275.6	17001.2
50°	18225.8	18109.2	18541.4	18579.1	18318.4	17972.0	18201.8	18424.8	18448.8	18088.6
52.5°	19200.1	19083.4	19711.2	19947.9	19714.6	19303.0	19546.5	19772.9	19591.1	19124.6
55°	19978.8	19882.7	20682.0	21292.6	21371.5	21031.9	21176.0	21169.1	20572.2	19855.3
57.5°	20167.4	20153.7	21162.2	22455.5	23278.8	23320.0	23035.3	22308.0	21021.6	20057.7
60°	19309.8	19395.6	20781.5	23062.7	25258.2	26170.7	24939.1	22863.7	20510.5	19172.6
62.5°	16743.9	16970.3	18640.9	22321.7	26856.7	29450.1	26465.7	22019.9	18411.1	16665.0
65°	11999.6	12394.1	14239.7	19049.1	26712.7	32331.7	26246.1	18894.7	14376.9	12363.2
67.5°	5444.1	5845.4	7413.1	13042.4	23220.5	31549.6	23165.6	13179.7	7783.6	5866.0
70°	1972.5	2041.1	2545.4	5221.1	14840.0	25138.1	15474.6	5258.8	2706.6	2174.9
72.5°	1193.8	1204.1	1310.4	1869.6	5155.9	15261.9	5375.5	1931.3	1337.9	1186.9
75°	758.1	751.3	933.1	1142.3	1828.4	5149.1	1917.6	1142.3	929.6	847.3
77.5°	545.4	562.6	668.9	854.2	1152.6	1746.1	1132.0	816.4	668.9	548.9
80°	408.2	418.5	487.1	665.5	809.6	1087.4	720.4	603.8	504.3	343.0
82.5°	295.0	295.0	319.0	483.7	494.0	586.6	391.1	425.4	332.8	243.6
85°	175.0	171.5	199.0	288.2	257.3	216.1	178.4	260.7	209.3	150.9
87.5°	61.7	65.2	61.7	82.3	68.6	58.3	54.9	72.0	58.3	51.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8137.0
8185.0
8298.2
8469.7
8675.5
8888.2
9121.5
9440.5
9800.7
10188.3
10624.0
11076.8
11570.8
12150.5
12802.3
13515.8
14246.5
15128.1
16085.2
17093.8
18133.2
19138.3
19879.3
19995.9
19014.8
16562.1
12215.7
5780.3
2147.4
1207.5
854.2
559.2
353.3
243.6
147.5
48.0
0.0

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