

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: P957116

Luminaire Tested: **GALN-SB9C-827-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957116  
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-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

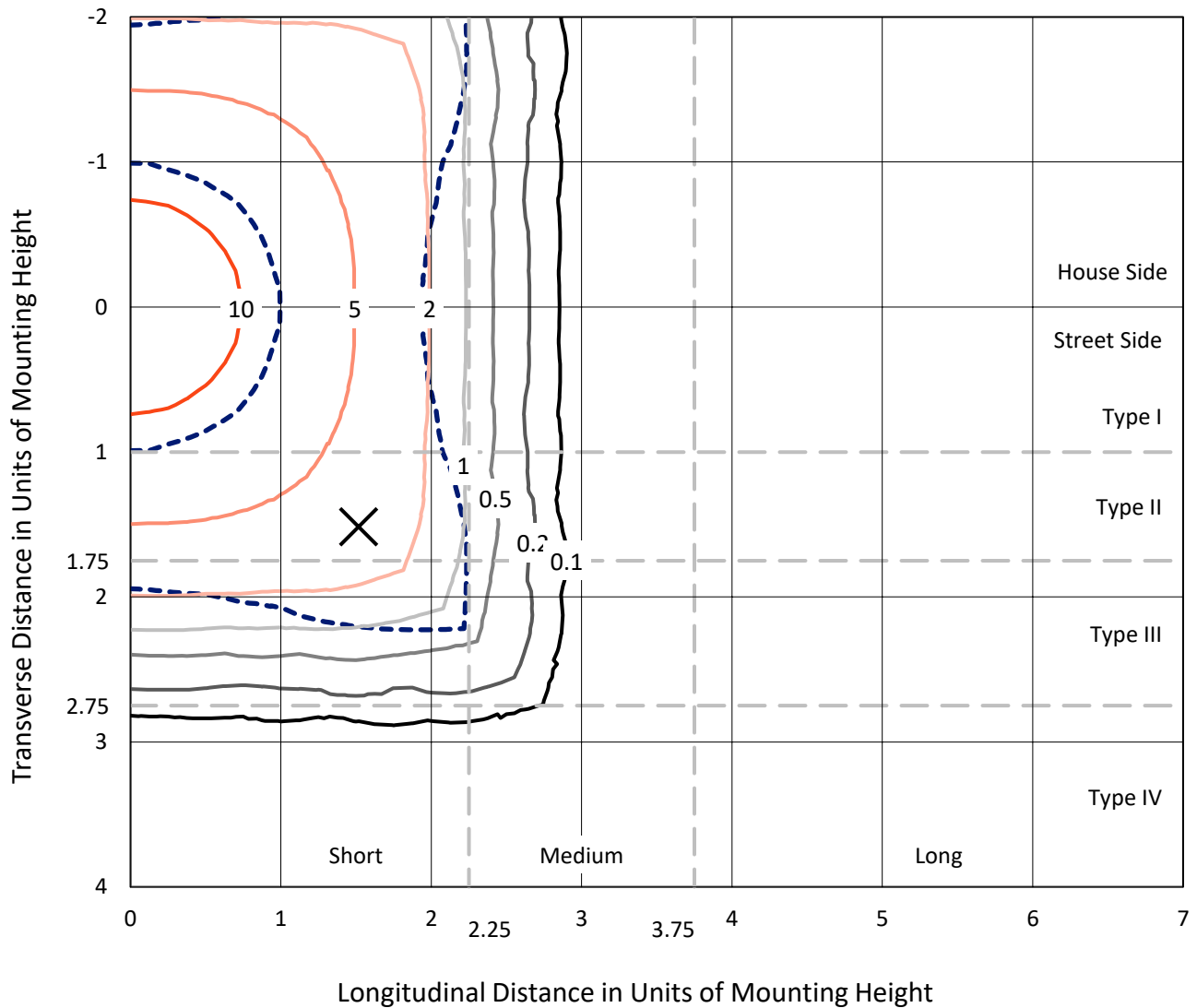
Lumens per Lamp: N/A  
Luminaire Lumens: 62157 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 449.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

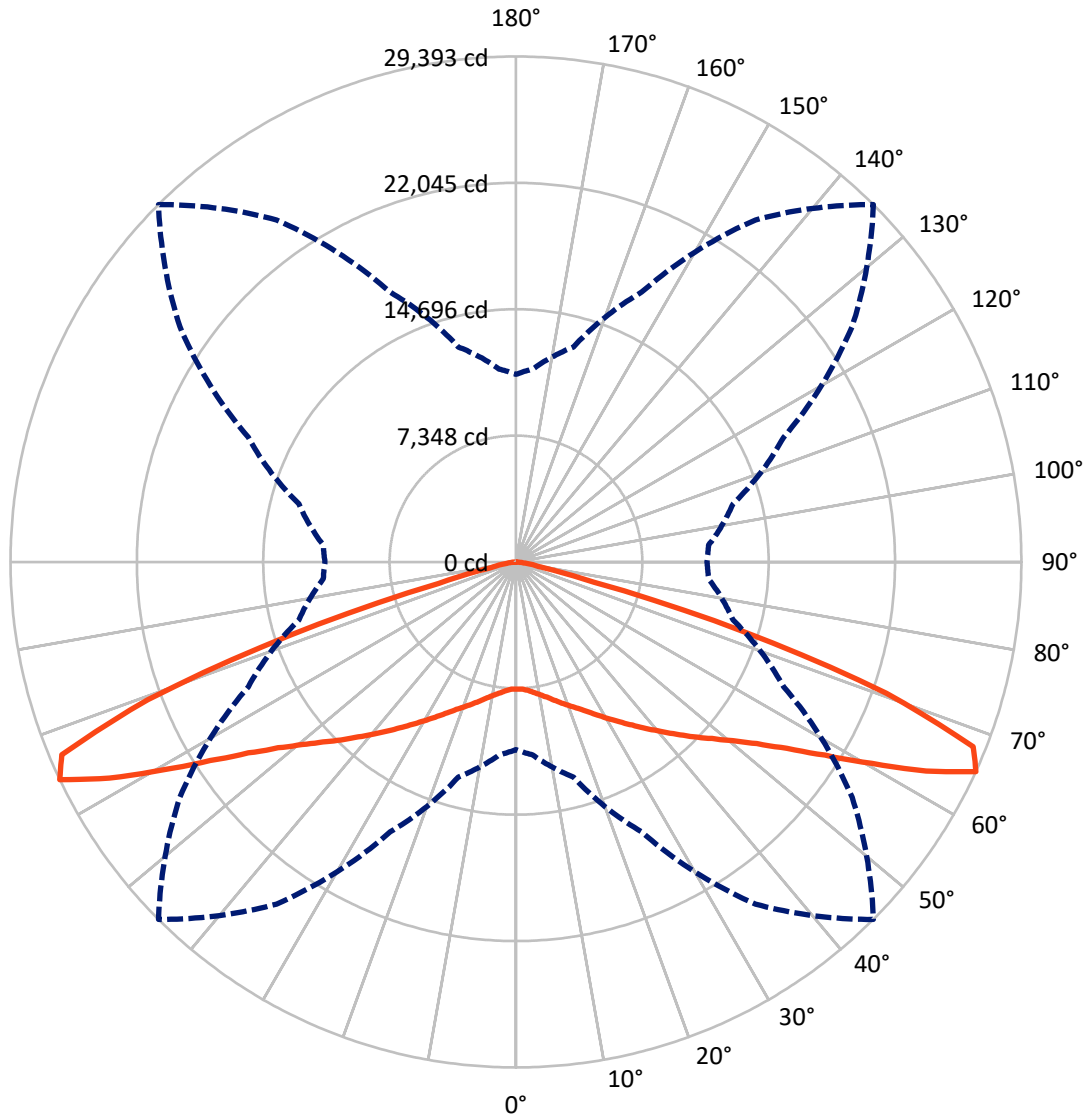
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	31078.5	0.0	31078.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	31078.5	0.0	31078.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	62157.0	0.0	62157.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	730.0	1.2
10°-20°	2382.2	3.8
20°-30°	4497.8	7.2
30°-40°	7365.1	11.8
40°-50°	11419.6	18.4
50°-60°	16869.1	27.1
60°-70°	16057.8	25.8
70°-80°	2591.1	4.2
80°-90°	244.2	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°	62157.0	100.0
0°-180°	62157.0	100.0



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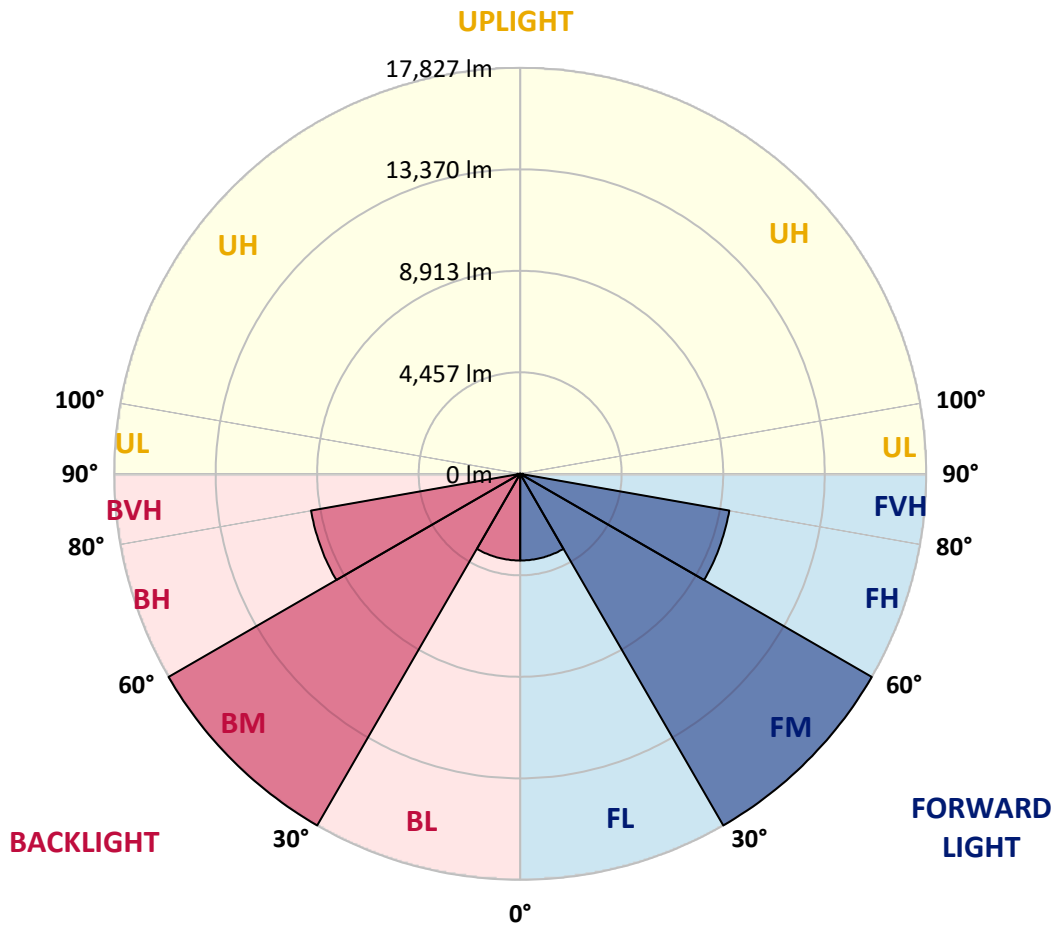
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3805.0	6.1			
FM (30°-60°)	17826.9	28.7			
FH (60°-80°)	9324.5	15.0			G4/12000
FVH (80°-90°)	122.1	0.2			G2/225
BL (0°-30°)	3805.0	6.1	B4/5000		
BM (30°-60°)	17826.9	28.7	B5		
BH (60°-80°)	9324.5	15.0	B5		G4/12000
BVH (80°-90°)	122.1	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°	7397.3	7397.3	7397.3	7397.3	7397.3	7397.3	7397.3	7397.3	7397.3	7397.3
2.5°	7447.2	7422.3	7441.0	7425.4	7412.9	7400.4	7406.7	7428.5	7437.8	7441.0
5°	7547.0	7525.2	7534.5	7534.5	7512.7	7506.5	7509.6	7525.2	7543.9	7543.9
7.5°	7709.2	7687.3	7709.2	7696.7	7678.0	7671.7	7668.6	7681.1	7709.2	7709.2
10°	7905.6	7880.7	7893.2	7886.9	7865.1	7855.7	7852.6	7871.3	7896.3	7893.2
12.5°	8120.8	8092.8	8108.3	8089.6	8083.4	8074.0	8074.0	8070.9	8086.5	8074.0
15°	8361.0	8342.2	8348.5	8336.0	8345.4	8339.1	8314.2	8301.7	8307.9	8289.2
17.5°	8644.7	8601.1	8622.9	8616.7	8616.7	8629.1	8588.6	8573.0	8585.5	8566.8
20°	8972.2	8928.5	8937.9	8925.4	8909.8	8922.3	8872.4	8884.9	8894.2	8881.8
22.5°	9330.8	9274.7	9271.6	9277.8	9243.5	9246.6	9212.3	9243.5	9262.2	9227.9
25°	9698.8	9639.6	9680.1	9664.5	9620.9	9630.2	9605.3	9636.5	9652.0	9608.4
27.5°	10088.7	10048.1	10085.5	10094.9	10041.9	10079.3	10041.9	10069.9	10085.5	10020.0
30°	10544.0	10503.4	10537.7	10562.7	10500.3	10559.6	10528.4	10547.1	10550.2	10472.2
32.5°	11039.8	10977.5	11064.8	11077.2	11008.6	11080.4	11039.8	11064.8	11080.4	10974.3
35°	11644.8	11566.9	11666.7	11651.1	11591.8	11651.1	11613.6	11651.1	11688.5	11560.6
37.5°	12296.6	12215.5	12321.6	12293.5	12237.4	12277.9	12256.1	12281.0	12340.3	12203.1
40°	13013.9	12914.1	13057.6	13007.7	12954.6	12948.4	12960.9	12976.5	13054.4	12901.6
42.5°	13781.1	13675.0	13890.2	13812.3	13737.4	13687.5	13728.1	13759.2	13834.1	13662.6
45°	14657.4	14535.8	14816.4	14722.9	14604.4	14501.5	14567.0	14613.7	14722.9	14517.1
47.5°	15624.2	15486.9	15786.3	15758.3	15564.9	15340.4	15490.1	15624.2	15705.2	15455.8
50°	16569.1	16463.1	16856.0	16890.3	16653.3	16338.3	16547.3	16750.0	16771.8	16444.3
52.5°	17454.8	17348.7	17919.4	18134.6	17922.6	17548.3	17769.7	17975.6	17810.3	17386.2
55°	18162.7	18075.4	18802.0	19357.1	19428.8	19120.1	19251.1	19244.8	18702.2	18050.4
57.5°	18334.2	18321.7	19238.6	20414.3	21162.8	21200.2	20941.4	20280.2	19110.7	18234.4
60°	17554.6	17632.5	18892.4	20966.3	22962.2	23791.8	22672.2	20785.4	18646.1	17429.8
62.5°	15221.9	15427.7	16946.4	20292.7	24415.5	26773.1	24060.0	20018.3	16737.5	15150.1
65°	10908.8	11267.5	12945.3	17317.6	24284.5	29392.7	23860.4	17177.2	13070.0	11239.4
67.5°	4949.2	5314.1	6739.3	11856.9	21109.8	28681.7	21059.9	11981.6	7076.1	5332.8
70°	1793.2	1855.6	2314.0	4746.5	13491.0	22853.1	14068.0	4780.8	2460.6	1977.2
72.5°	1085.3	1094.6	1191.3	1699.6	4687.2	13874.6	4886.8	1755.8	1216.3	1079.0
75°	689.2	683.0	848.3	1038.5	1662.2	4681.0	1743.3	1038.5	845.1	770.3
77.5°	495.9	511.4	608.1	776.5	1047.8	1587.4	1029.1	742.2	608.1	499.0
80°	371.1	380.5	442.8	605.0	736.0	988.6	654.9	548.9	458.4	311.9
82.5°	268.2	268.2	290.0	439.7	449.1	533.3	355.5	386.7	302.5	221.4
85°	159.0	155.9	180.9	262.0	233.9	196.5	162.2	237.0	190.2	137.2
87.5°	56.1	59.3	56.1	74.8	62.4	53.0	49.9	65.5	53.0	46.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7397.3
7441.0
7543.9
7699.8
7886.9
8080.3
8292.3
8582.4
8909.8
9262.2
9658.3
10069.9
10519.0
11046.1
11638.6
12287.3
12951.5
13753.0
14623.1
15540.0
16484.9
17398.6
18072.3
18178.3
17286.4
15056.6
11105.3
5254.8
1952.2
1097.7
776.5
508.3
321.2
221.4
134.1
43.7
0.0

OF REPORT)