

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: P944730

Luminaire Tested: **GALN-SB9D-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944730  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

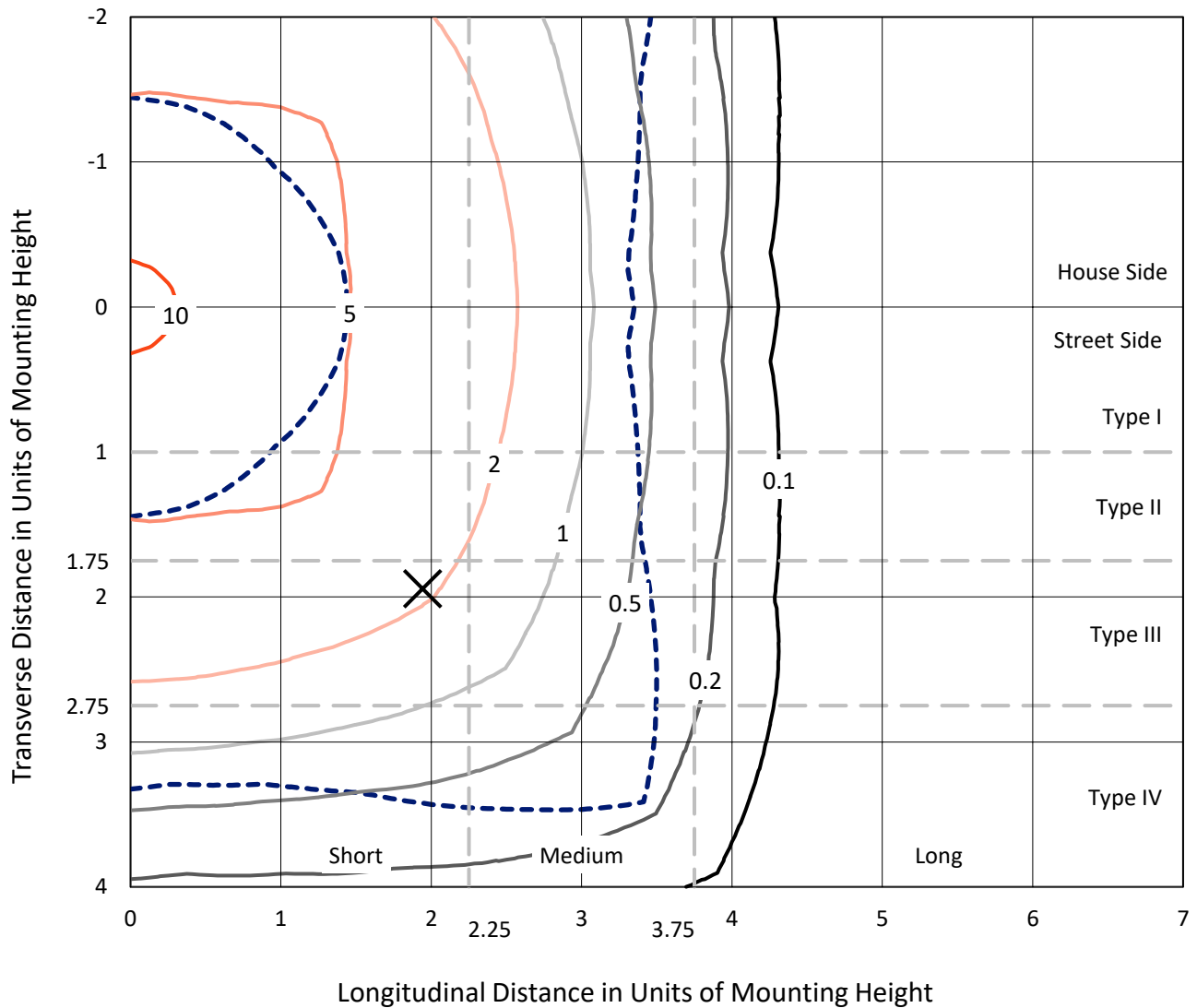
Lumens per Lamp: N/A  
Luminaire Lumens: 81525 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

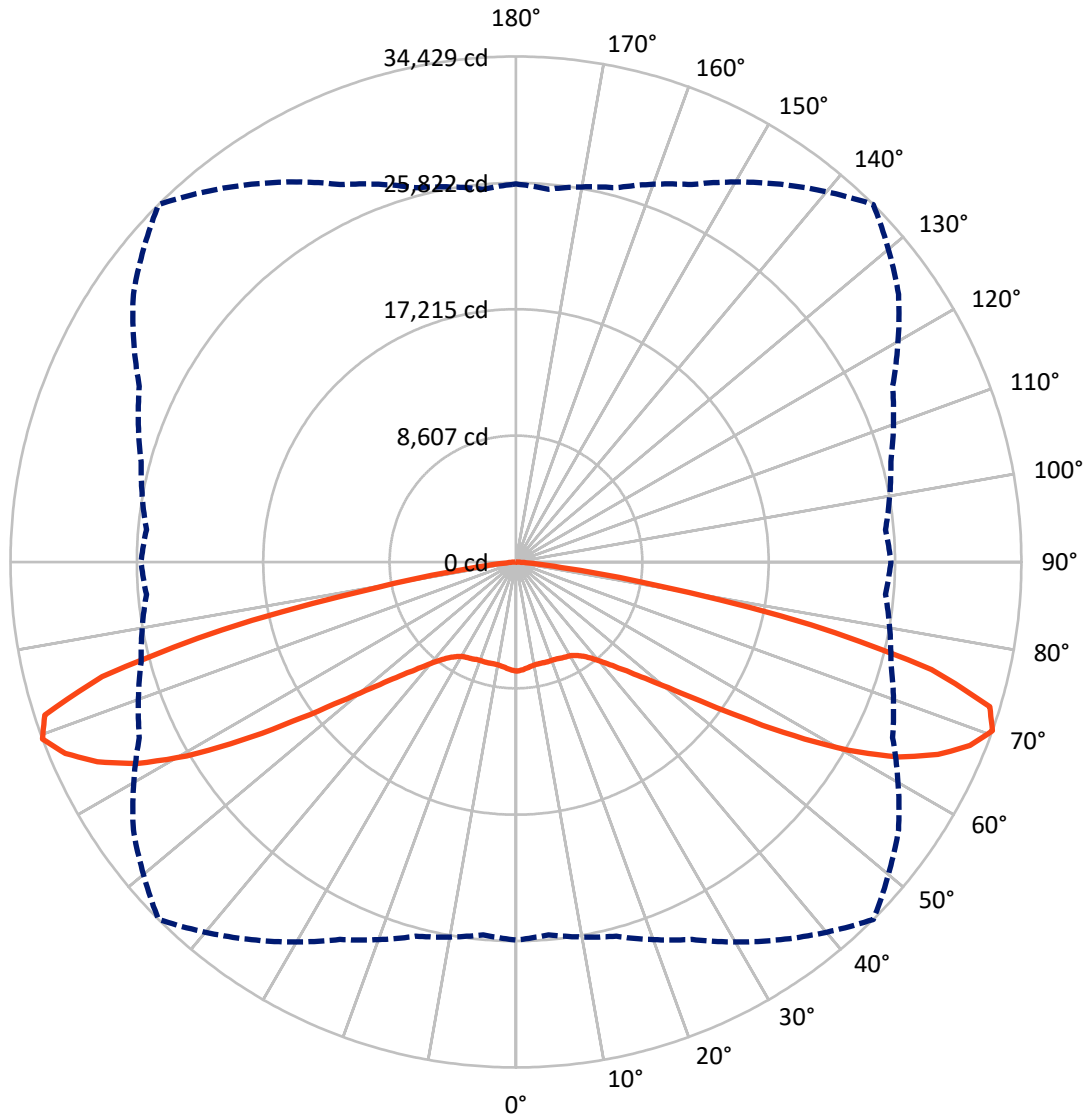
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	40762.5	0.0	40762.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	40762.5	0.0	40762.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	81525.0	0.0	81525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	691.8	0.8
10°-20°	2031.3	2.5
20°-30°	3380.3	4.1
30°-40°	5112.1	6.3
40°-50°	8495.0	10.4
50°-60°	16029.8	19.7
60°-70°	27067.0	33.2
70°-80°	17785.8	21.8
80°-90°	931.8	1.1
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°	81525.0	100.0
0°-180°	81525.0	100.0

**Coefficient of Utilization**



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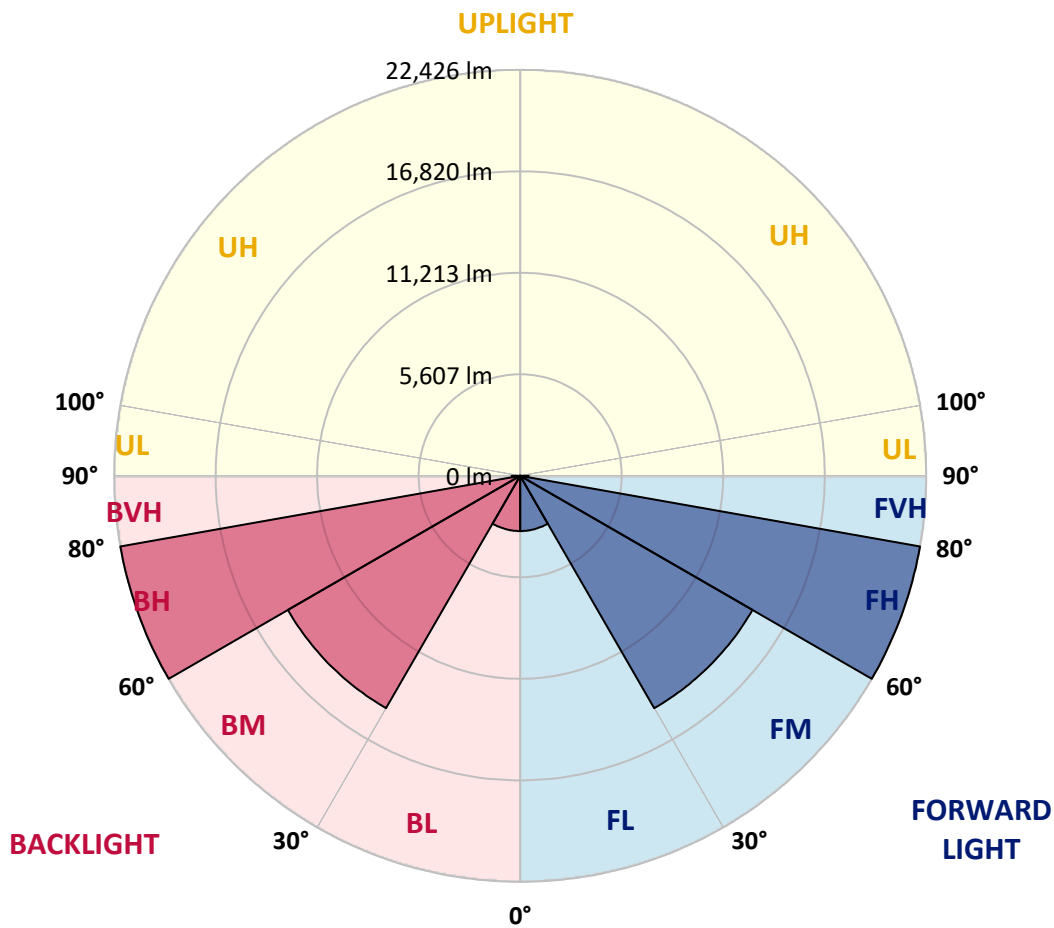
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3051.7	3.7			
FM (30°-60°)	14818.5	18.2			
FH (60°-80°)	22426.4	27.5			G5
FVH (80°-90°)	465.9	0.6			G3/500
BL (0°-30°)	3051.7	3.7	B4/5000		
BM (30°-60°)	14818.5	18.2	B5		
BH (60°-80°)	22426.4	27.5	B5		G5
BVH (80°-90°)	465.9	0.6			G3/500
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°	7436.7	7436.7	7436.7	7436.7	7436.7	7436.7	7436.7	7436.7	7436.7	7436.7
2.5°	7390.1	7411.3	7402.8	7385.9	7385.9	7373.2	7385.9	7394.3	7407.1	7415.5
5°	7292.6	7309.6	7305.4	7292.6	7296.9	7284.2	7292.6	7305.4	7313.8	7318.1
7.5°	7207.9	7224.8	7216.4	7195.2	7195.2	7182.5	7186.7	7199.4	7212.1	7216.4
10°	7186.7	7203.7	7178.2	7144.3	7131.6	7114.7	7118.9	7131.6	7157.0	7169.8
12.5°	7195.2	7207.9	7182.5	7131.6	7118.9	7102.0	7102.0	7114.7	7148.6	7165.5
15°	7220.6	7233.3	7195.2	7140.1	7127.4	7114.7	7110.4	7127.4	7165.5	7195.2
17.5°	7267.2	7279.9	7220.6	7144.3	7127.4	7131.6	7127.4	7140.1	7199.4	7254.5
20°	7309.6	7318.1	7237.6	7144.3	7127.4	7131.6	7127.4	7152.8	7229.1	7305.4
22.5°	7322.3	7330.8	7254.5	7174.0	7161.3	7165.5	7161.3	7186.7	7258.7	7335.0
25°	7326.5	7339.3	7279.9	7216.4	7237.6	7246.0	7237.6	7241.8	7296.9	7364.7
27.5°	7390.1	7407.1	7352.0	7296.9	7309.6	7305.4	7318.1	7330.8	7373.2	7441.0
30°	7521.5	7534.2	7487.6	7432.5	7424.0	7394.3	7432.5	7474.9	7521.5	7580.8
32.5°	7737.6	7763.0	7703.7	7644.4	7606.2	7589.3	7618.9	7691.0	7754.5	7818.1
35°	8097.8	8114.7	8059.6	7949.5	7881.7	7881.7	7907.1	8000.3	8102.0	8182.5
37.5°	8606.3	8627.4	8530.0	8398.6	8296.9	8296.9	8330.8	8428.3	8580.8	8695.2
40°	9224.9	9254.6	9131.7	8996.1	8898.6	8881.7	8924.1	9034.2	9178.3	9322.4
42.5°	9970.7	10004.6	9843.6	9724.9	9648.7	9648.7	9669.9	9771.6	9902.9	10080.9
45°	10924.1	10983.5	10763.1	10644.5	10572.4	10589.4	10602.1	10691.1	10809.7	11013.1
47.5°	12059.8	12119.1	11886.0	11763.2	11750.4	11831.0	11780.1	11843.7	11907.2	12140.3
50°	13348.0	13449.7	13288.6	13280.2	13305.6	13453.9	13335.2	13369.1	13297.1	13445.4
52.5°	14924.3	15072.6	15042.9	15093.8	15377.7	15682.8	15411.6	15293.0	15021.8	15068.4
55°	16835.4	17060.0	17102.3	17407.4	18051.5	18674.4	18098.1	17619.3	17043.0	16937.1
57.5°	19009.2	19187.2	19390.6	20013.5	21216.9	22322.9	21216.9	20157.5	19250.7	19034.6
60°	21348.3	21568.6	21763.5	22683.1	24471.3	26026.4	24437.4	22755.1	21555.9	21263.5
62.5°	23861.1	24145.0	24280.6	25301.8	27386.6	29242.6	27416.3	25378.1	24047.5	23733.9
65°	26272.2	26505.2	26657.8	27746.8	29738.4	31598.7	29874.0	27865.5	26496.8	26085.7
67.5°	27395.1	27522.2	27895.1	29128.2	31230.0	33353.0	31585.9	29259.6	27729.9	27009.5
70°	25751.0	25492.5	26390.8	28365.5	31408.0	34429.3	31814.8	28306.2	26433.2	25263.7
72.5°	19899.1	19454.1	21013.5	24390.8	29374.0	33742.8	29577.4	24581.4	21983.9	19610.9
75°	10826.7	10322.4	12475.0	16746.4	23424.6	29246.9	23962.8	17225.2	13890.4	10746.2
77.5°	3055.2	2864.5	4601.9	8102.0	14089.5	20534.7	14631.9	8280.0	5457.8	3237.4
80°	936.5	906.8	1228.9	2440.8	5983.3	9835.1	5750.2	2470.4	1563.6	987.3
82.5°	555.1	508.5	610.2	889.9	1525.5	3089.1	1483.1	928.0	745.8	500.0
85°	317.8	296.6	360.2	432.2	512.7	656.8	428.0	440.7	398.3	267.0
87.5°	131.4	118.6	139.8	135.6	118.6	152.5	114.4	135.6	161.0	105.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7436.7
7411.3
7318.1
7216.4
7169.8
7169.8
7199.4
7254.5
7309.6
7335.0
7360.4
7424.0
7568.1
7792.7
8152.9
8652.9
9275.8
10068.2
11004.7
12072.5
13356.4
14911.6
16771.8
18882.1
21009.3
23479.7
25882.3
27018.0
25543.3
20199.9
11445.3
3597.6
1042.4
542.4
279.7
97.5
0.0

OF REPORT)