

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: P944390

Luminaire Tested: **GALN-SB9B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P944390  
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-SB9B-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

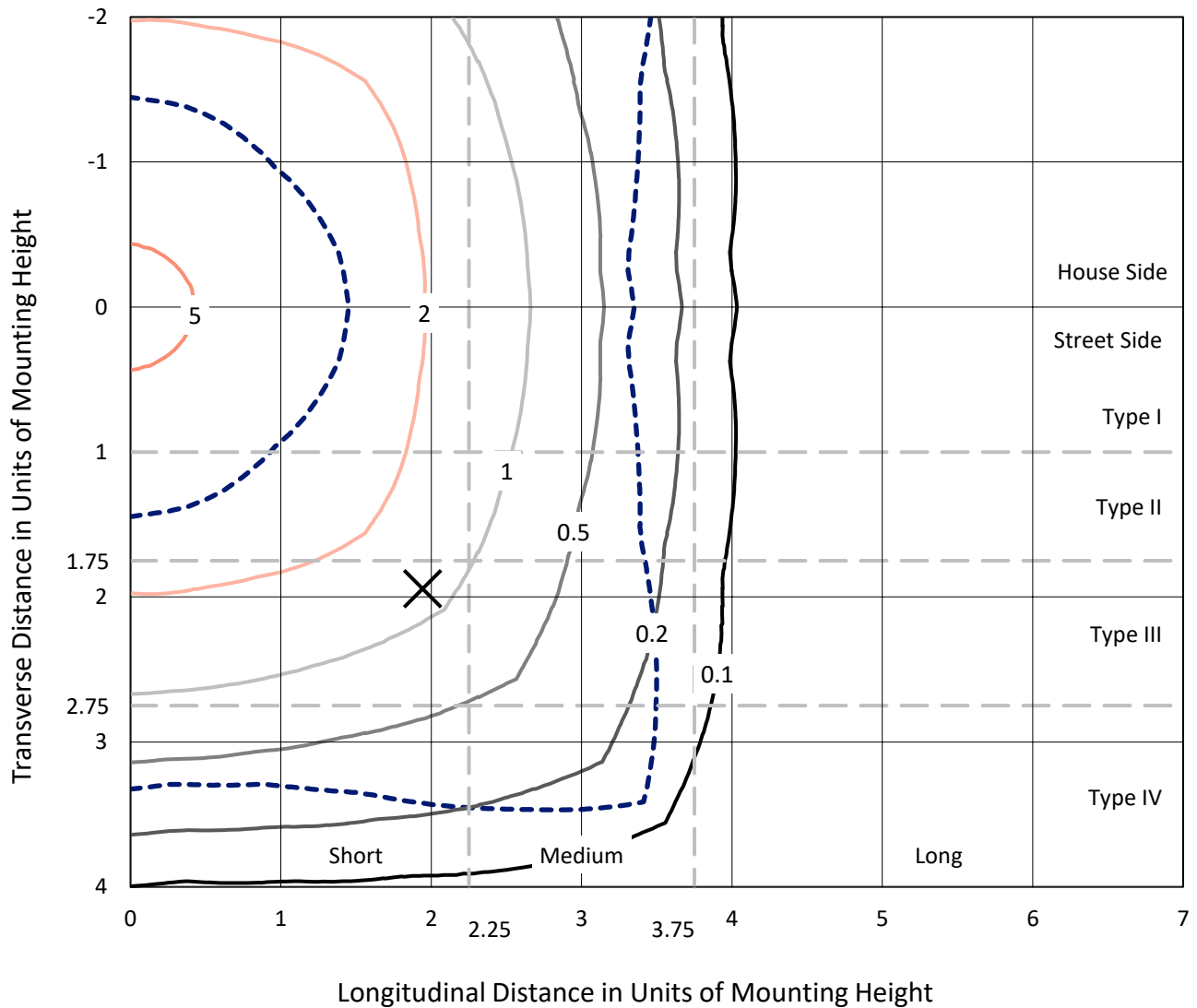
Lumens per Lamp: N/A  
Luminaire Lumens: 45113 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P944390  
 CATALOG NUMBER: GALN-SB9B-827-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

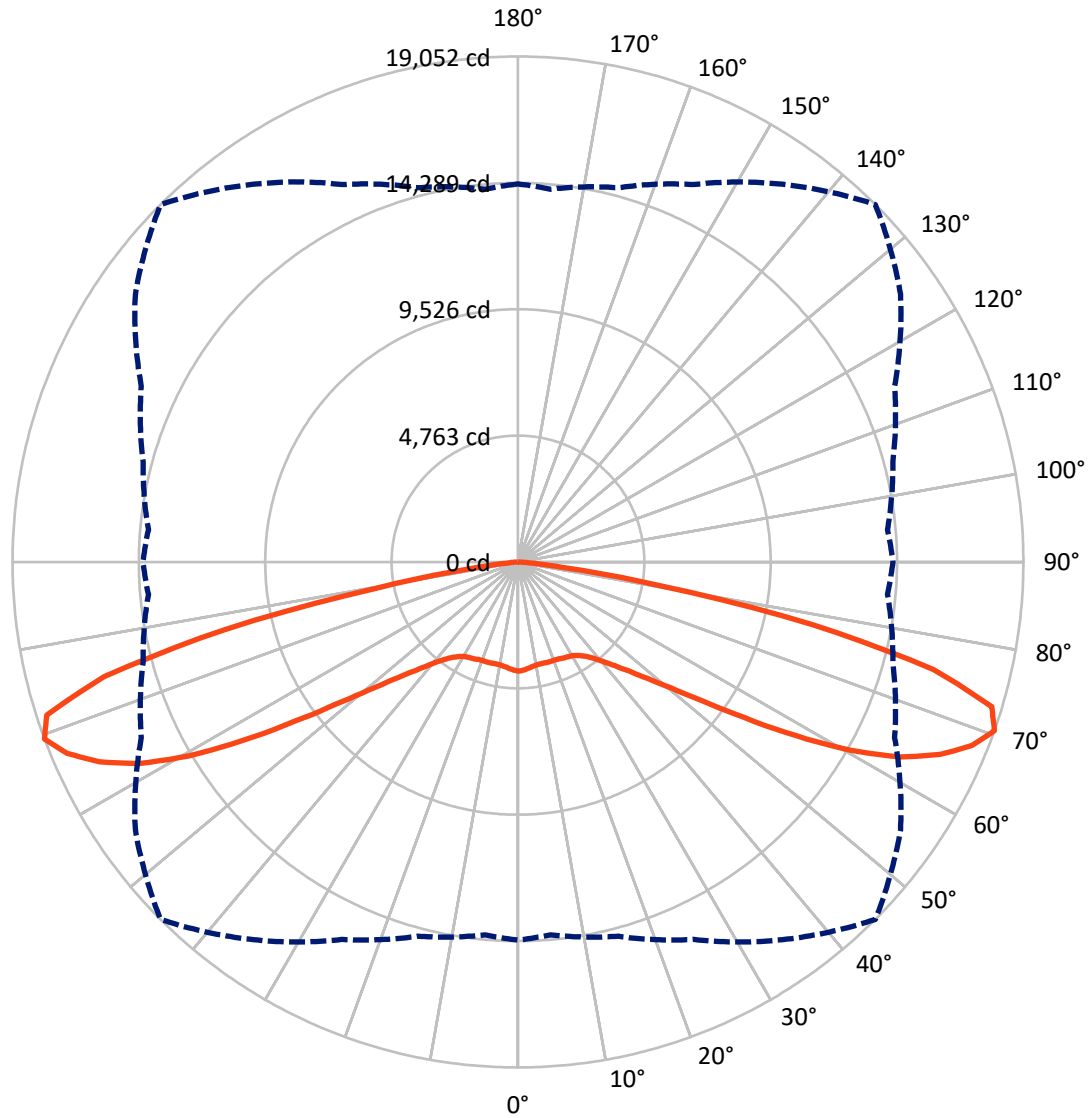
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type V - Short - N/A

REPORT NUMBER: P944390  
CATALOG NUMBER: GALN-SB9B-827-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P944390

CATALOG NUMBER: GALN-SB9B-827-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22556.5	0.0	22556.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22556.5	0.0	22556.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45113.0	0.0	45113.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.8	0.8
10°-20°	1124.0	2.5
20°-30°	1870.5	4.1
30°-40°	2828.8	6.3
40°-50°	4700.8	10.4
50°-60°	8870.3	19.7
60°-70°	14977.9	33.2
70°-80°	9842.0	21.8
80°-90°	515.6	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°	45113.0	100.0
0°-180°	45113.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P944390

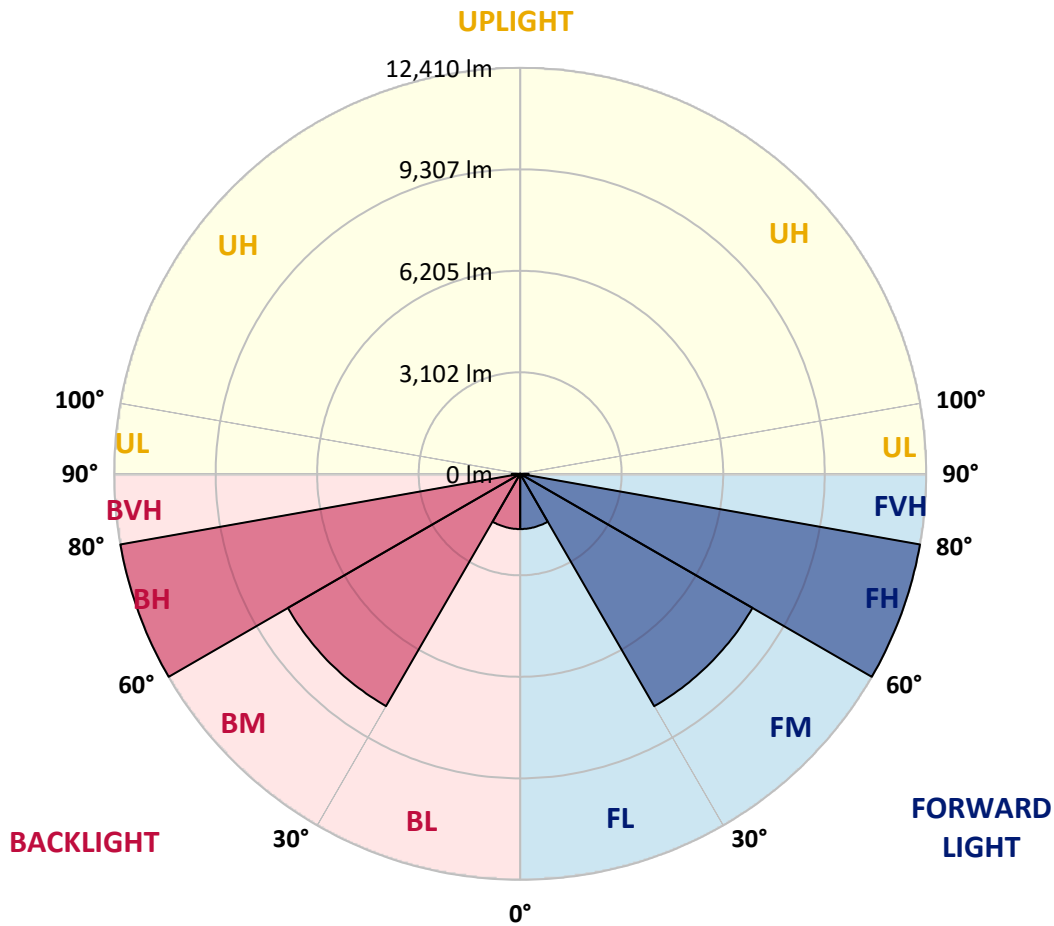
CATALOG NUMBER: GALN-SB9B-827-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.7	3.7			
FM (30°-60°)	8200.0	18.2			
FH (60°-80°)	12410.0	27.5			G5
FVH (80°-90°)	257.8	0.6			G3/500
BL (0°-30°)	1688.7	3.7	B3/2500		
BM (30°-60°)	8200.0	18.2	B4/8500		
BH (60°-80°)	12410.0	27.5	B5		G5
BVH (80°-90°)	257.8	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



REPORT NUMBER: P944390

CATALOG NUMBER: GALN-SB9B-827-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4115.2	4115.2	4115.2	4115.2	4115.2	4115.2	4115.2	4115.2	4115.2	4115.2
2.5°	4089.4	4101.1	4096.5	4087.1	4087.1	4080.0	4087.1	4091.8	4098.8	4103.5
5°	4035.5	4044.9	4042.5	4035.5	4037.8	4030.8	4035.5	4042.5	4047.2	4049.6
7.5°	3988.6	3998.0	3993.3	3981.6	3981.6	3974.5	3976.9	3983.9	3990.9	3993.3
10°	3976.9	3986.2	3972.2	3953.4	3946.4	3937.0	3939.4	3946.4	3960.5	3967.5
12.5°	3981.6	3988.6	3974.5	3946.4	3939.4	3930.0	3930.0	3937.0	3955.8	3965.1
15°	3995.6	4002.7	3981.6	3951.1	3944.0	3937.0	3934.7	3944.0	3965.1	3981.6
17.5°	4021.4	4028.5	3995.6	3953.4	3944.0	3946.4	3944.0	3951.1	3983.9	4014.4
20°	4044.9	4049.6	4005.0	3953.4	3944.0	3946.4	3944.0	3958.1	4000.3	4042.5
22.5°	4051.9	4056.6	4014.4	3969.8	3962.8	3965.1	3962.8	3976.9	4016.7	4058.9
25°	4054.2	4061.3	4028.5	3993.3	4005.0	4009.7	4005.0	4007.4	4037.8	4075.4
27.5°	4089.4	4098.8	4068.3	4037.8	4044.9	4042.5	4049.6	4056.6	4080.0	4117.6
30°	4162.1	4169.1	4143.4	4112.9	4108.2	4091.8	4112.9	4136.3	4162.1	4194.9
32.5°	4281.7	4295.8	4262.9	4230.1	4209.0	4199.6	4216.0	4255.9	4291.1	4326.3
35°	4481.0	4490.4	4459.9	4398.9	4361.4	4361.4	4375.5	4427.1	4483.4	4527.9
37.5°	4762.4	4774.1	4720.2	4647.5	4591.2	4591.2	4610.0	4663.9	4748.3	4811.6
40°	5104.7	5121.2	5053.2	4978.1	4924.2	4914.8	4938.3	4999.2	5078.9	5158.7
42.5°	5517.4	5536.2	5447.1	5381.4	5339.2	5339.2	5351.0	5407.2	5479.9	5578.4
45°	6045.0	6077.9	5955.9	5890.3	5850.4	5859.8	5866.8	5916.1	5981.7	6094.3
47.5°	6673.4	6706.3	6577.3	6509.3	6502.3	6546.8	6518.7	6553.9	6589.0	6718.0
50°	7386.3	7442.6	7353.5	7348.8	7362.8	7444.9	7379.2	7398.0	7358.1	7440.2
52.5°	8258.6	8340.6	8324.2	8352.4	8509.5	8678.3	8528.2	8462.6	8312.5	8338.3
55°	9316.1	9440.4	9463.8	9632.6	9989.1	10333.8	10014.9	9749.9	9431.0	9372.4
57.5°	10519.0	10617.5	10730.0	11074.7	11740.7	12352.7	11740.7	11154.5	10652.7	10533.1
60°	11813.4	11935.3	12043.2	12552.0	13541.5	14402.1	13522.8	12591.9	11928.3	11766.5
62.5°	13203.9	13361.0	13436.0	14001.1	15154.8	16181.8	15171.2	14043.3	13307.0	13133.5
65°	14538.1	14667.0	14751.5	15354.1	16456.2	17485.6	16531.2	15419.7	14662.4	14434.9
67.5°	15159.5	15229.8	15436.2	16118.5	17281.6	18456.3	17478.5	16191.2	15344.7	14946.1
70°	14249.7	14106.6	14603.7	15696.4	17380.0	19051.9	17605.1	15663.6	14627.2	13980.0
72.5°	11011.4	10765.2	11628.1	13497.0	16254.5	18672.1	16367.1	13602.5	12165.1	10852.0
75°	5991.1	5712.1	6903.2	9266.9	12962.3	16184.2	13260.1	9531.8	7686.4	5946.5
77.5°	1690.6	1585.1	2546.5	4483.4	7796.6	11363.1	8096.8	4581.8	3020.2	1791.5
80°	518.2	501.8	680.0	1350.6	3310.9	5442.4	3182.0	1367.0	865.3	546.4
82.5°	307.2	281.4	337.7	492.4	844.1	1709.4	820.7	513.5	412.7	276.7
85°	175.9	164.1	199.3	239.2	283.7	363.5	236.8	243.9	220.4	147.7
87.5°	72.7	65.7	77.4	75.0	65.7	84.4	63.3	75.0	89.1	58.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4115.2
4101.1
4049.6
3993.3
3967.5
3967.5
3983.9
4014.4
4044.9
4058.9
4073.0
4108.2
4187.9
4312.2
4511.5
4788.2
5132.9
5571.4
6089.6
6680.5
7391.0
8251.5
9280.9
10448.7
11625.8
12992.8
14322.4
14950.8
14134.8
11177.9
6333.4
1990.8
576.8
300.1
154.8
53.9
0.0

OF REPORT)