

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: P943200

Luminaire Tested: **GALN-SB7C-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943200  
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-SB7C-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

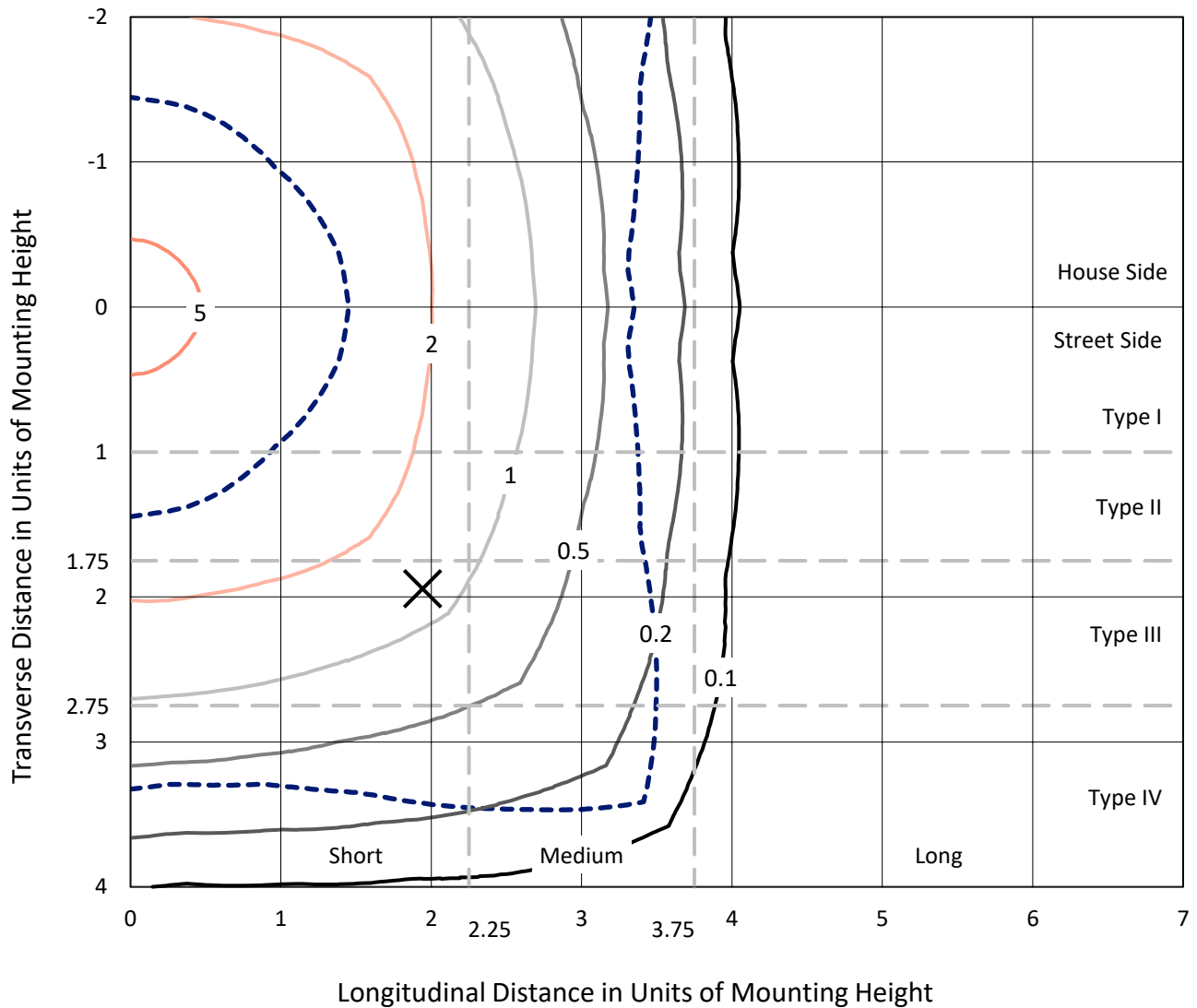
Lumens per Lamp: N/A  
Luminaire Lumens: 46846 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 350.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

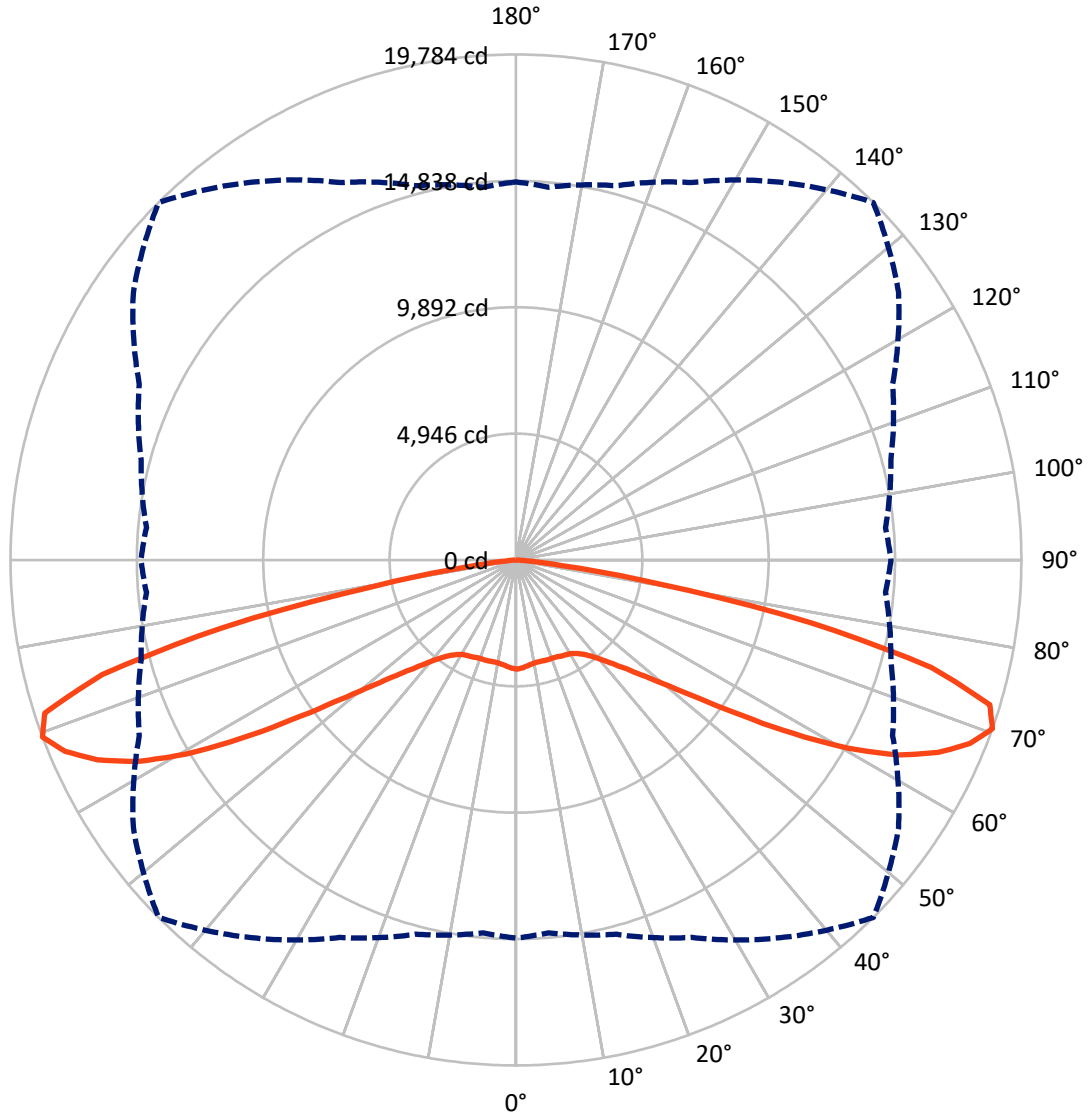
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	23423.0	0.0	23423.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23423.0	0.0	23423.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46846.0	0.0	46846.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.5	0.8
10°-20°	1167.2	2.5
20°-30°	1942.4	4.1
30°-40°	2937.5	6.3
40°-50°	4881.4	10.4
50°-60°	9211.1	19.7
60°-70°	15553.3	33.2
70°-80°	10220.1	21.8
80°-90°	535.4	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°	46846.0	100.0
0°-180°	46846.0	100.0



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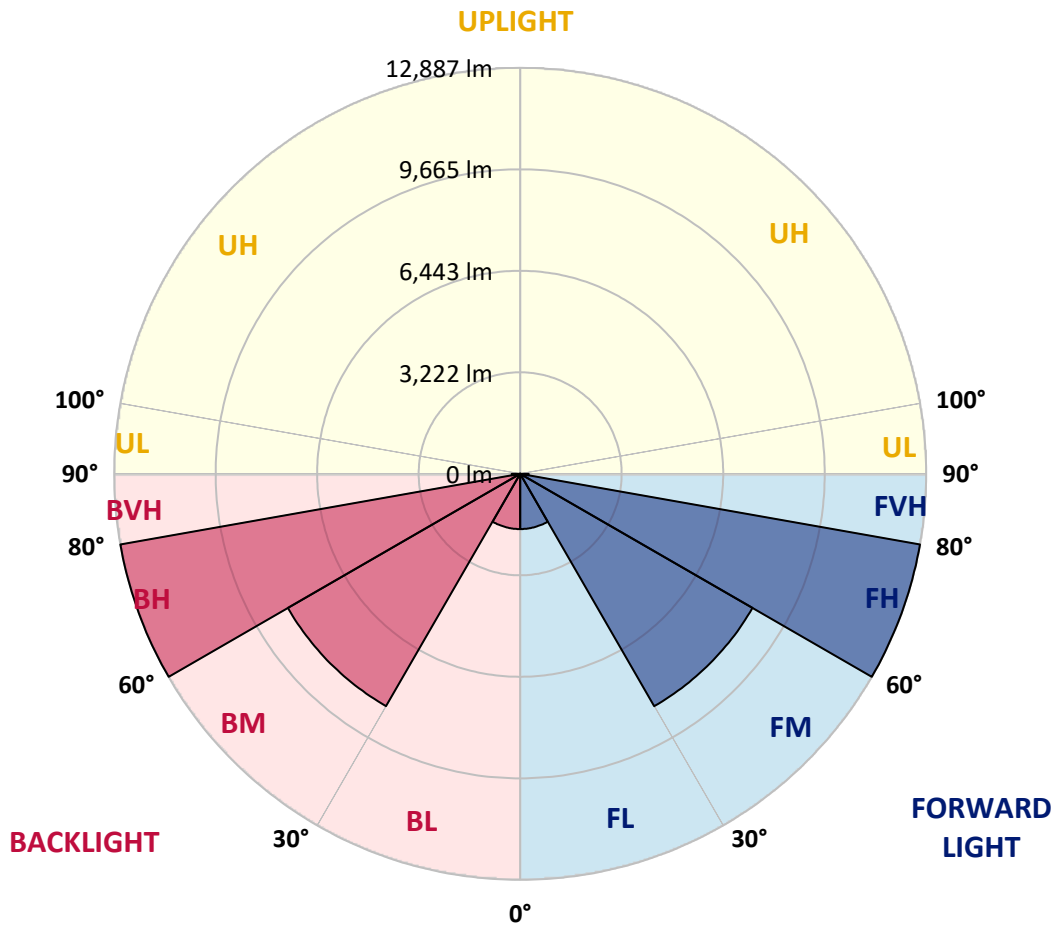
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1753.6	3.7			
FM (30°-60°)	8515.0	18.2			
FH (60°-80°)	12886.7	27.5			G5
FVH (80°-90°)	267.7	0.6			G3/500
BL (0°-30°)	1753.6	3.7	B3/2500		
BM (30°-60°)	8515.0	18.2	B5		
BH (60°-80°)	12886.7	27.5	B5		G5
BVH (80°-90°)	267.7	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°	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3	4273.3
2.5°	4246.5	4258.7	4253.8	4244.1	4244.1	4236.8	4244.1	4248.9	4256.3	4261.1
5°	4190.5	4200.3	4197.8	4190.5	4192.9	4185.6	4190.5	4197.8	4202.7	4205.1
7.5°	4141.8	4151.6	4146.7	4134.5	4134.5	4127.2	4129.6	4136.9	4144.2	4146.7
10°	4129.6	4139.4	4124.8	4105.3	4098.0	4088.2	4090.7	4098.0	4112.6	4119.9
12.5°	4134.5	4141.8	4127.2	4098.0	4090.7	4080.9	4080.9	4088.2	4107.7	4117.5
15°	4149.1	4156.4	4134.5	4102.9	4095.5	4088.2	4085.8	4095.5	4117.5	4134.5
17.5°	4175.9	4183.2	4149.1	4105.3	4095.5	4098.0	4095.5	4102.9	4136.9	4168.6
20°	4200.3	4205.1	4158.9	4105.3	4095.5	4098.0	4095.5	4110.2	4154.0	4197.8
22.5°	4207.6	4212.4	4168.6	4122.3	4115.0	4117.5	4115.0	4129.6	4171.0	4214.9
25°	4210.0	4217.3	4183.2	4146.7	4158.9	4163.7	4158.9	4161.3	4192.9	4231.9
27.5°	4246.5	4256.3	4224.6	4192.9	4200.3	4197.8	4205.1	4212.4	4236.8	4275.7
30°	4322.0	4329.3	4302.5	4270.9	4266.0	4248.9	4270.9	4295.2	4322.0	4356.1
32.5°	4446.2	4460.8	4426.7	4392.6	4370.7	4361.0	4378.0	4419.4	4455.9	4492.4
35°	4653.1	4662.9	4631.2	4567.9	4529.0	4529.0	4543.6	4597.1	4655.6	4701.8
37.5°	4945.3	4957.5	4901.5	4826.0	4767.6	4767.6	4787.1	4843.1	4930.7	4996.5
40°	5300.8	5317.9	5247.3	5169.4	5113.3	5103.6	5128.0	5191.3	5274.1	5356.8
42.5°	5729.4	5748.9	5656.3	5588.2	5544.3	5544.3	5556.5	5614.9	5690.4	5792.7
45°	6277.2	6311.3	6184.7	6116.5	6075.1	6084.9	6092.2	6143.3	6211.5	6328.4
47.5°	6929.8	6963.9	6830.0	6759.4	6752.1	6798.3	6769.1	6805.6	6842.1	6976.1
50°	7670.0	7728.5	7635.9	7631.1	7645.7	7730.9	7662.7	7682.2	7640.8	7726.0
52.5°	8575.8	8661.0	8644.0	8673.2	8836.4	9011.7	8855.8	8787.7	8631.8	8658.6
55°	9674.0	9803.0	9827.4	10002.7	10372.8	10730.7	10399.6	10124.4	9793.3	9732.4
57.5°	10923.1	11025.4	11142.2	11500.2	12191.7	12827.2	12191.7	11583.0	11061.9	10937.7
60°	12267.2	12393.8	12505.8	13034.2	14061.7	14955.3	14042.2	13075.6	12386.5	12218.5
62.5°	13711.1	13874.2	13952.1	14539.0	15736.9	16803.4	15754.0	14582.8	13818.2	13638.0
65°	15096.6	15230.5	15318.1	15943.9	17088.3	18157.3	17166.2	16012.1	15225.6	14989.4
67.5°	15741.8	15814.9	16029.1	16737.7	17945.4	19165.3	18150.0	16813.2	15934.2	15520.2
70°	14797.1	14648.5	15164.7	16299.4	18047.7	19783.8	18281.4	16265.3	15189.1	14517.0
72.5°	11434.4	11178.8	12074.8	14015.4	16878.9	19389.3	16995.8	14125.0	12632.4	11268.8
75°	6221.2	5931.5	7168.4	9622.8	13460.3	16805.9	13769.5	9898.0	7981.7	6175.0
77.5°	1755.6	1646.0	2644.3	4655.6	8096.1	11799.7	8407.8	4757.8	3136.2	1860.3
80°	538.1	521.1	706.1	1402.5	3438.1	5651.5	3304.2	1419.6	898.5	567.3
82.5°	319.0	292.2	350.6	511.3	876.6	1775.1	852.2	533.2	428.5	287.3
85°	182.6	170.4	207.0	248.4	294.6	377.4	245.9	253.2	228.9	153.4
87.5°	75.5	68.2	80.4	77.9	68.2	87.7	65.7	77.9	92.5	60.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°  
4273.3  
4258.7  
4205.1  
4146.7  
4119.9  
4119.9  
4136.9  
4168.6  
4200.3  
4214.9  
4229.5  
4266.0  
4348.8  
4477.8  
4684.8  
4972.1  
5330.1  
5785.4  
6323.5  
6937.1  
7674.9  
8568.5  
9637.4  
10850.0  
12072.4  
13491.9  
14872.5  
15525.1  
*14677.7*  
11607.3  
6576.7  
2067.3  
599.0  
311.7  
160.7  
56.0  
0.0

OF REPORT)