

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: P957472

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

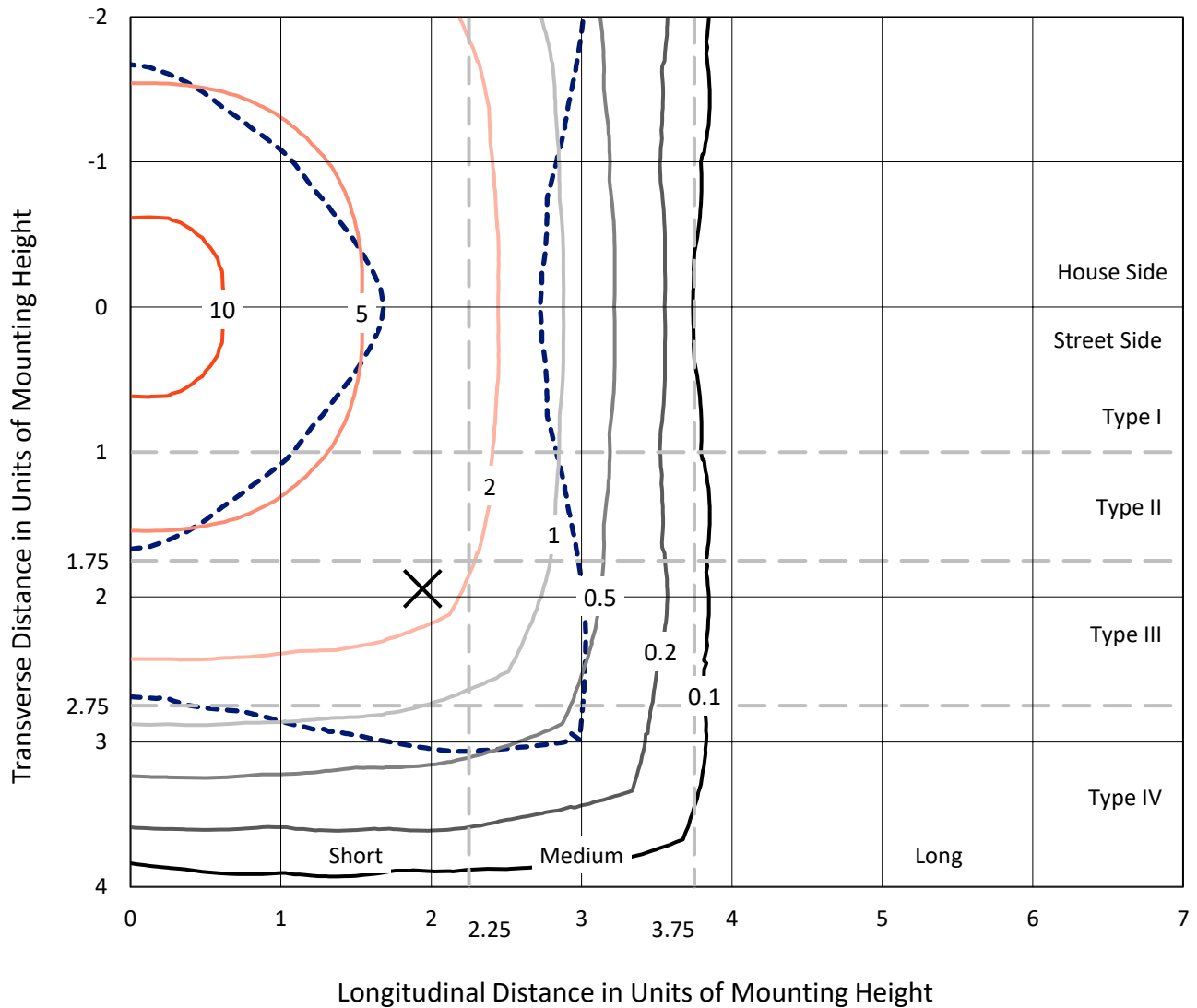
Lumens per Lamp: N/A  
Luminaire Lumens: 84406 lumens  
Efficiency: N/A  
Efficacy: 128.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

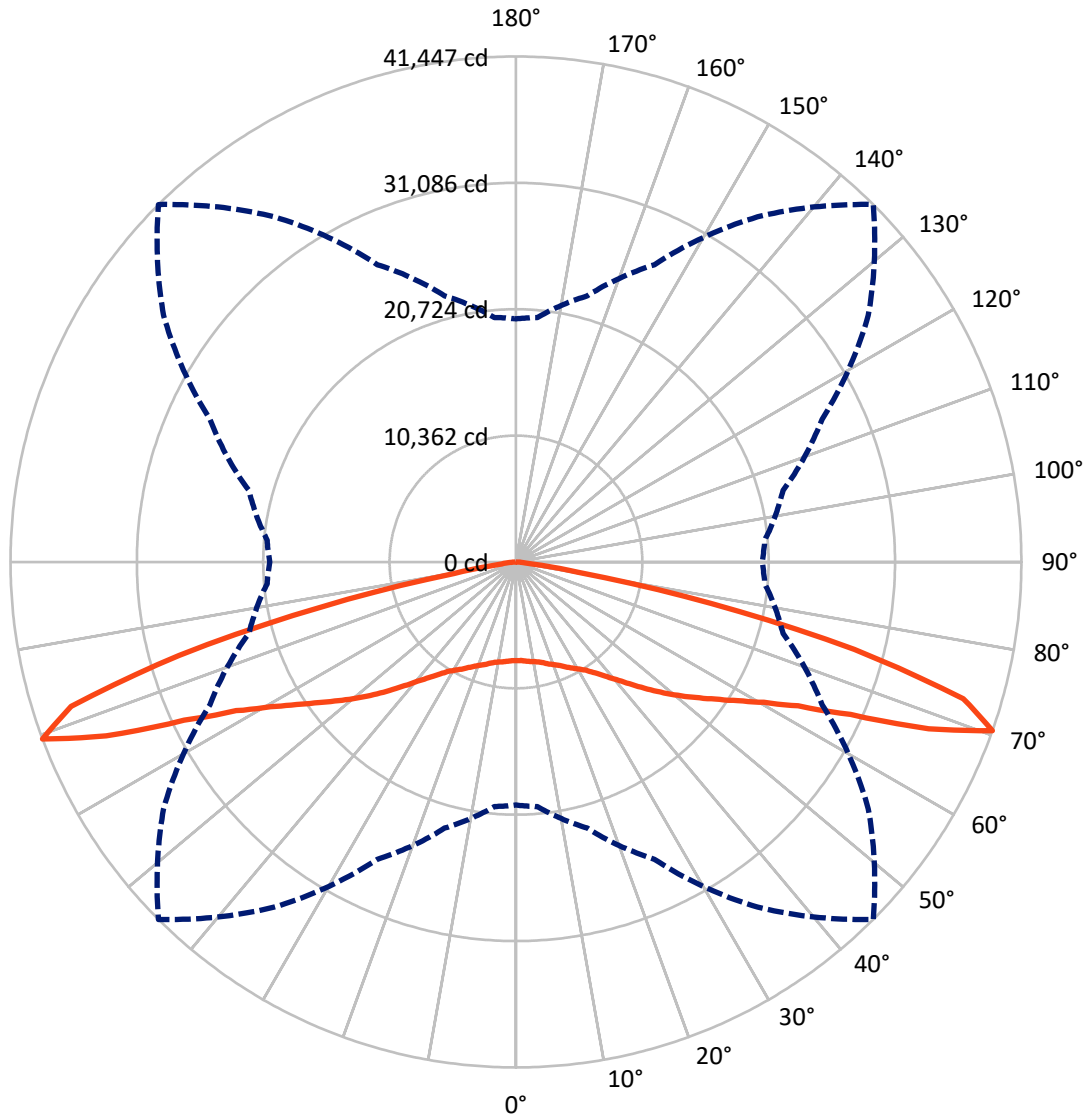
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 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	42203.0	0.0	42203.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	42203.0	0.0	42203.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	84406.0	0.0	84406.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	785.5	0.9
10°-20°	2435.7	2.9
20°-30°	4352.8	5.2
30°-40°	7055.9	8.4
40°-50°	11492.9	13.6
50°-60°	17522.8	20.8
60°-70°	26068.4	30.9
70°-80°	14208.1	16.8
80°-90°	483.8	0.6
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°	84406.0	100.0
0°-180°	84406.0	100.0

**Coefficient of Utilization**



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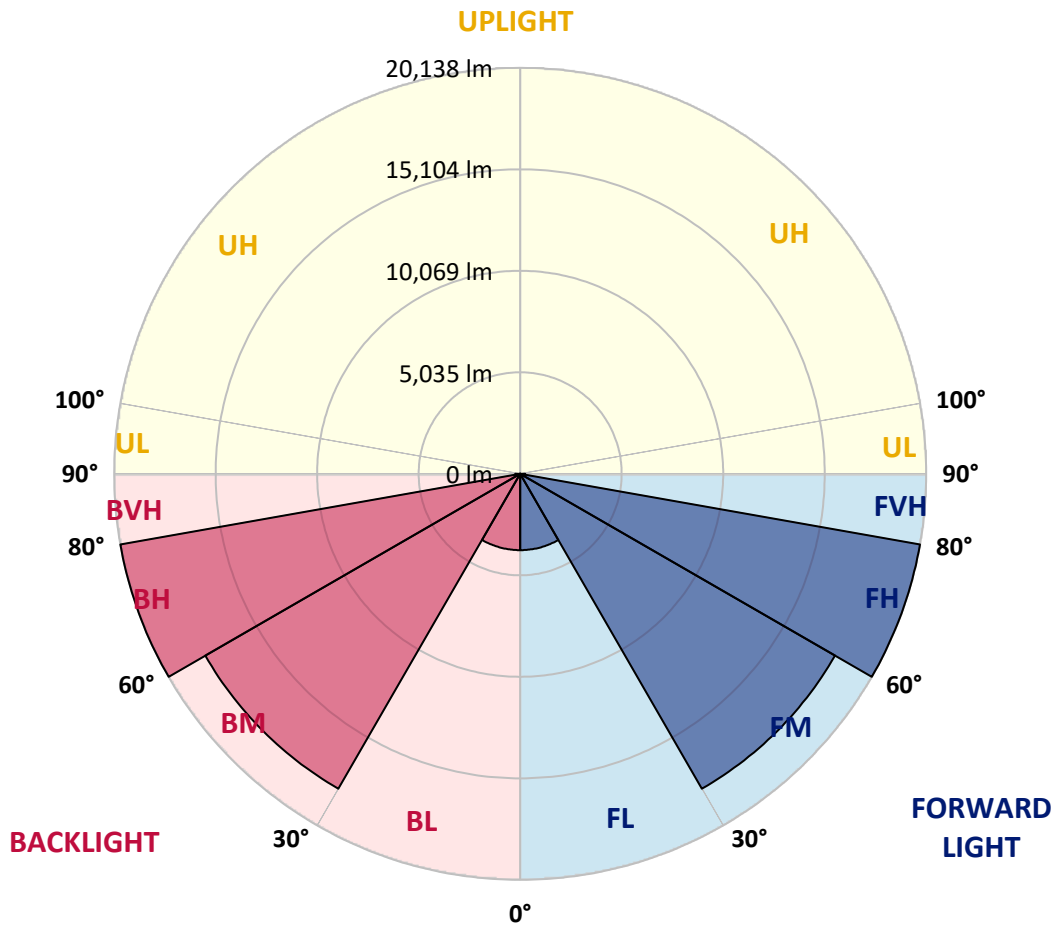
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3787.0	4.5			
FM (30°-60°)	18035.8	21.4			
FH (60°-80°)	20138.3	23.9			G5
FVH (80°-90°)	241.9	0.3			G3/500
BL (0°-30°)	3787.0	4.5	B4/5000		
BM (30°-60°)	18035.8	21.4	B5		
BH (60°-80°)	20138.3	23.9	B5		G5
BVH (80°-90°)	241.9	0.3			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°	8085.2	8085.2	8085.2	8085.2	8085.2	8085.2	8085.2	8085.2	8085.2	8085.2
2.5°	8123.4	8131.8	8114.9	8106.4	8097.9	8085.2	8089.5	8110.6	8127.6	8123.4
5°	8191.2	8199.6	8186.9	8182.7	8165.7	8161.5	8161.5	8182.7	8195.4	8186.9
7.5°	8267.4	8280.1	8259.0	8254.7	8246.2	8237.8	8233.5	8254.7	8267.4	8267.4
10°	8339.5	8352.2	8335.2	8322.5	8314.0	8314.0	8305.6	8322.5	8343.7	8339.5
12.5°	8415.7	8424.2	8407.3	8398.8	8398.8	8411.5	8398.8	8407.3	8424.2	8415.7
15°	8509.0	8513.2	8509.0	8521.7	8542.9	8585.3	8547.1	8538.6	8547.1	8525.9
17.5°	8636.1	8644.6	8661.5	8691.2	8720.9	8797.1	8729.3	8708.1	8708.1	8665.8
20°	8792.9	8805.6	8831.0	8881.9	8920.0	8992.1	8924.3	8894.6	8881.9	8826.8
22.5°	8958.2	8979.3	9017.5	9085.3	9153.1	9220.9	9153.1	9102.2	9064.1	8992.1
25°	9148.8	9174.3	9233.6	9343.8	9437.0	9534.5	9453.9	9352.2	9276.0	9174.3
27.5°	9420.0	9449.7	9521.7	9657.3	9776.0	9860.7	9784.5	9653.1	9547.2	9424.3
30°	9801.4	9831.1	9915.8	10059.9	10140.4	10195.5	10144.7	10043.0	9915.8	9776.0
32.5°	10293.0	10331.1	10424.3	10559.9	10576.9	10585.4	10568.4	10517.6	10424.3	10254.8
35°	10915.9	10958.3	11064.2	11174.4	11157.4	11174.4	11149.0	11132.0	11064.2	10869.3
37.5°	11678.7	11729.5	11839.7	11924.4	11882.1	11860.9	11865.1	11869.3	11831.2	11615.1
40°	12564.3	12632.1	12712.6	12801.6	12729.6	12666.0	12708.4	12742.3	12708.4	12488.0
42.5°	13475.4	13572.8	13657.6	13784.7	13725.4	13644.9	13704.2	13742.3	13670.3	13433.0
45°	14488.1	14581.4	14691.5	14882.2	14839.9	14755.1	14839.9	14848.3	14725.4	14445.8
47.5°	15534.8	15632.3	15797.5	16051.8	16034.8	15941.6	16051.8	15992.5	15835.7	15500.9
50°	16526.4	16662.0	16916.2	17272.2	17306.1	17191.7	17340.0	17225.6	16962.9	16543.3
52.5°	17458.7	17602.7	18005.3	18488.4	18611.3	18463.0	18662.1	18463.0	18068.9	17530.7
55°	18437.5	18598.6	19077.4	19708.8	19954.6	19844.4	20030.8	19730.0	19170.6	18518.0
57.5°	19590.1	19687.6	20259.7	21009.7	21425.0	21450.4	21535.2	21026.7	20348.7	19607.1
60°	20840.2	20975.8	21598.7	22497.1	23153.9	23365.8	23276.8	22522.5	21734.3	20882.6
62.5°	22442.0	22590.3	23336.1	24412.5	25450.6	25976.1	25628.6	24535.3	23560.7	22539.5
65°	23768.3	23933.6	25281.1	27200.8	29090.7	30145.8	29272.9	27260.1	25505.7	24065.0
67.5°	22806.4	23009.8	25124.4	28650.0	33349.4	36497.9	33510.4	29082.2	25645.6	23692.1
70°	19933.4	20124.1	22590.3	26899.9	34548.6	41447.4	35269.0	27692.3	22670.8	20484.3
72.5°	13233.8	13848.3	16344.2	21514.0	30849.3	38354.0	31154.4	21077.5	15161.9	13204.2
75°	4390.1	4881.6	6585.1	11153.2	20662.2	28683.9	19670.6	9869.2	5216.4	3754.5
77.5°	1106.0	1275.5	1758.6	3190.9	8242.0	16331.5	7419.9	2606.1	1419.6	991.6
80°	538.2	593.3	847.5	1063.6	2063.7	5191.0	1936.6	1000.1	669.5	517.0
82.5°	296.6	300.9	478.8	601.7	767.0	1343.3	796.7	584.8	385.6	313.6
85°	182.2	178.0	254.3	322.1	322.1	478.8	381.4	322.1	220.4	194.9
87.5°	72.0	72.0	93.2	101.7	89.0	122.9	97.5	105.9	84.8	80.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8085.2
8127.6
8191.2
8267.4
8339.5
8411.5
8525.9
8665.8
8826.8
8987.8
9170.0
9420.0
9776.0
10259.1
10869.3
11615.1
12488.0
13449.9
14475.4
15479.7
16534.9
17479.8
18429.0
19505.4
20747.0
22361.5
23827.7
23399.7
20191.9
12776.2
3551.1
885.6
474.6
313.6
203.4
84.8
0.0

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