

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: P956758

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956758
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-SB9B-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46707 lumens
Efficiency: N/A
Efficacy: 141.8 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

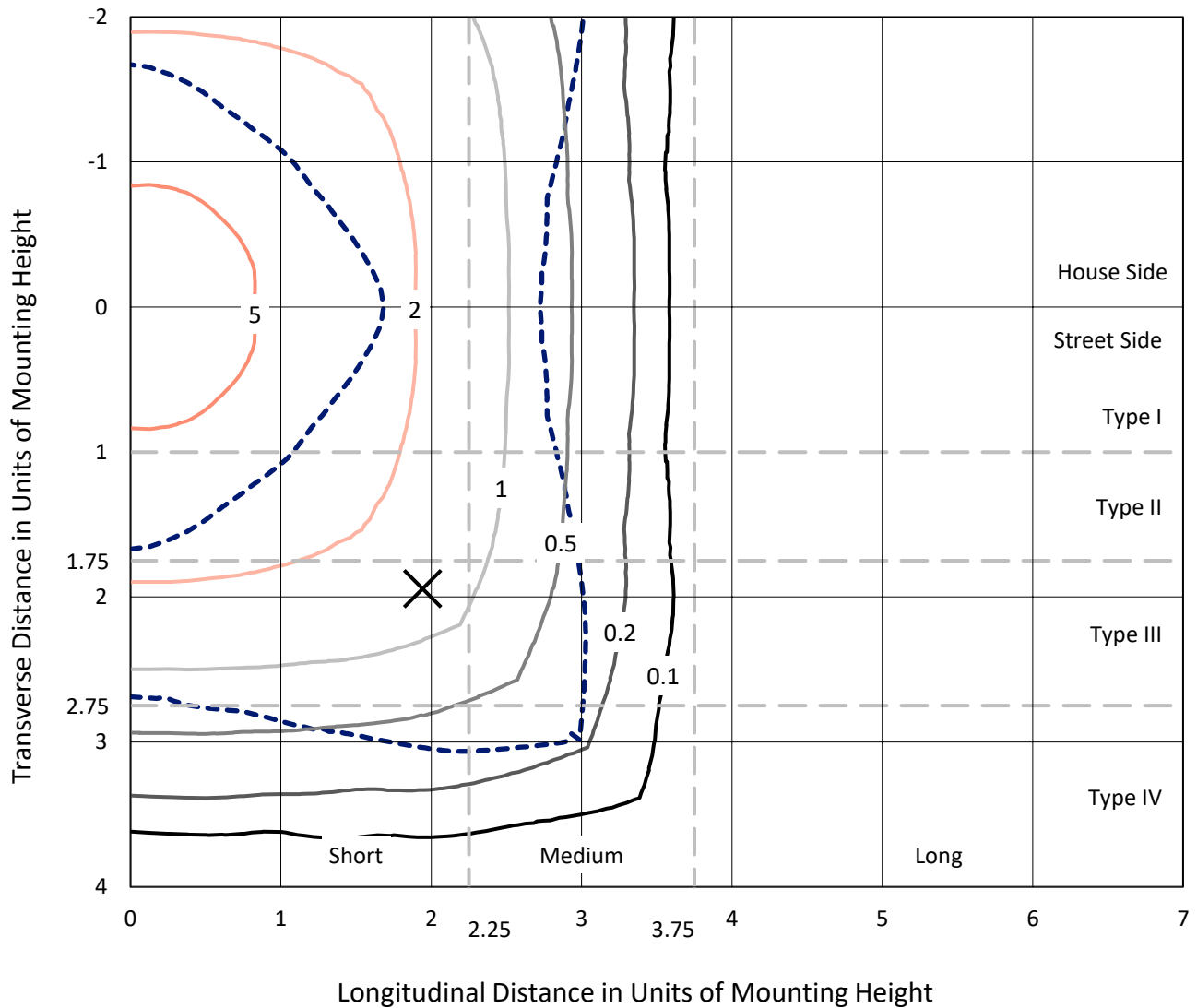
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

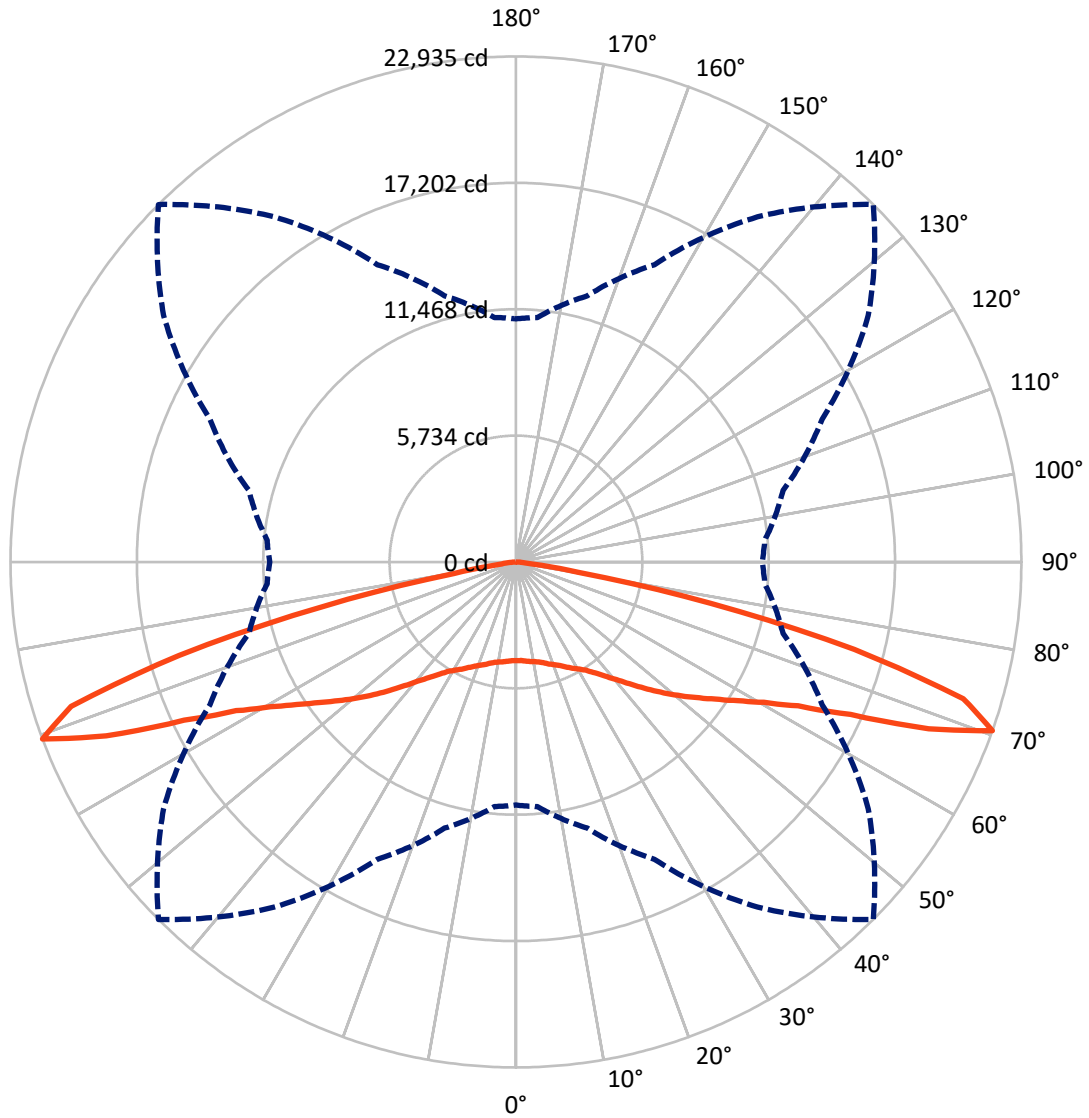
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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
House Side	Lumens	23353.5	0.0	23353.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23353.5	0.0	23353.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46707.0	0.0	46707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.7	0.9
10°-20°	1347.8	2.9
20°-30°	2408.7	5.2
30°-40°	3904.5	8.4
40°-50°	6359.7	13.6
50°-60°	9696.5	20.8
60°-70°	14425.2	30.9
70°-80°	7862.2	16.8
80°-90°	267.7	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°	46707.0	100.0
0°-180°	46707.0	100.0

Coefficient of Utilization



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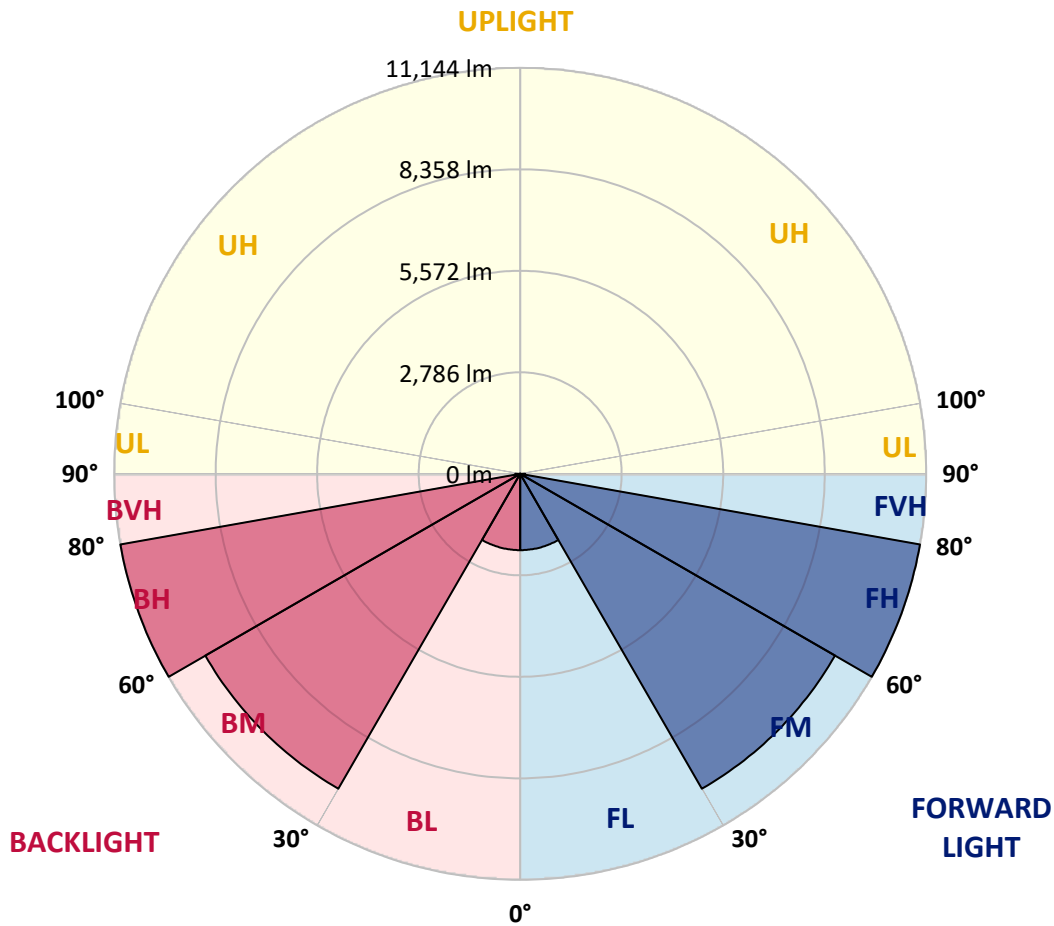
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2095.6	4.5			
FM (30°-60°)	9980.3	21.4			
FH (60°-80°)	11143.7	23.9			G4/12000
FVH (80°-90°)	133.9	0.3			G2/225
BL (0°-30°)	2095.6	4.5	B3/2500		
BM (30°-60°)	9980.3	21.4	B5		
BH (60°-80°)	11143.7	23.9	B5		G4/12000
BVH (80°-90°)	133.9	0.3			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°	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0	4474.0
2.5°	4495.2	4499.8	4490.5	4485.8	4481.1	4474.0	4476.4	4488.1	4497.5	4495.2
5°	4532.7	4537.4	4530.3	4528.0	4518.6	4516.3	4516.3	4528.0	4535.0	4530.3
7.5°	4574.9	4581.9	4570.2	4567.8	4563.2	4558.5	4556.1	4567.8	4574.9	4574.9
10°	4614.7	4621.8	4612.4	4605.4	4600.7	4600.7	4596.0	4605.4	4617.1	4614.7
12.5°	4656.9	4661.6	4652.3	4647.6	4647.6	4654.6	4647.6	4652.3	4661.6	4656.9
15°	4708.5	4710.9	4708.5	4715.6	4727.3	4750.7	4729.6	4725.0	4729.6	4717.9
17.5°	4778.9	4783.6	4793.0	4809.4	4825.8	4868.0	4830.5	4818.7	4818.7	4795.3
20°	4865.6	4872.7	4886.7	4914.9	4936.0	4975.9	4938.3	4921.9	4914.9	4884.4
22.5°	4957.1	4968.8	4989.9	5027.4	5065.0	5102.5	5065.0	5036.8	5015.7	4975.9
25°	5062.6	5076.7	5109.5	5170.5	5222.1	5276.0	5231.4	5175.2	5133.0	5076.7
27.5°	5212.7	5229.1	5269.0	5344.0	5409.7	5456.6	5414.3	5341.7	5283.0	5215.0
30°	5423.7	5440.1	5487.0	5566.8	5611.3	5641.8	5613.7	5557.4	5487.0	5409.7
32.5°	5695.7	5716.8	5768.4	5843.5	5852.8	5857.5	5848.2	5820.0	5768.4	5674.6
35°	6040.4	6063.9	6122.5	6183.5	6174.1	6183.5	6169.4	6160.0	6122.5	6014.6
37.5°	6462.5	6490.7	6551.6	6598.5	6575.1	6563.3	6565.7	6568.0	6546.9	6427.3
40°	6952.6	6990.1	7034.7	7083.9	7044.0	7008.9	7032.3	7051.1	7032.3	6910.4
42.5°	7456.7	7510.7	7557.6	7627.9	7595.1	7550.5	7583.4	7604.5	7564.6	7433.3
45°	8017.2	8068.8	8129.7	8235.2	8211.8	8164.9	8211.8	8216.5	8148.5	7993.7
47.5°	8596.4	8650.3	8741.7	8882.4	8873.1	8821.5	8882.4	8849.6	8762.8	8577.6
50°	9145.1	9220.1	9360.8	9557.8	9576.5	9513.2	9595.3	9532.0	9386.6	9154.4
52.5°	9660.9	9740.7	9963.4	10230.7	10298.8	10216.7	10326.9	10216.7	9998.6	9700.8
55°	10202.6	10291.7	10556.7	10906.1	11042.1	10981.1	11084.3	10917.8	10608.3	10247.2
57.5°	10840.4	10894.4	11210.9	11626.0	11855.8	11869.8	11916.7	11635.3	11260.2	10849.8
60°	11532.2	11607.2	11951.9	12449.0	12812.5	12929.7	12880.5	12463.1	12026.9	11555.6
62.5°	12418.5	12500.6	12913.3	13508.9	14083.4	14374.2	14181.9	13576.9	13037.6	12472.5
65°	13152.5	13243.9	13989.6	15051.8	16097.7	16681.5	16198.5	15084.7	14113.9	13316.6
67.5°	12620.2	12732.7	13902.8	15853.8	18454.3	20196.5	18543.4	16093.0	14191.3	13110.3
70°	11030.4	11135.9	12500.6	14885.4	19117.9	22935.4	19516.5	15323.8	12545.2	11335.2
72.5°	7323.1	7663.1	9044.2	11905.0	17070.8	21223.6	17239.6	11663.5	8390.0	7306.7
75°	2429.3	2701.3	3644.0	6171.7	11433.7	15872.6	10885.0	5461.2	2886.6	2077.6
77.5°	612.0	705.8	973.1	1765.7	4560.8	9037.2	4105.9	1442.1	785.5	548.7
80°	297.8	328.3	469.0	588.6	1142.0	2872.5	1071.6	553.4	370.5	286.1
82.5°	164.1	166.5	265.0	333.0	424.4	743.3	440.8	323.6	213.4	173.5
85°	100.8	98.5	140.7	178.2	178.2	265.0	211.0	178.2	121.9	107.9
87.5°	39.9	39.9	51.6	56.3	49.2	68.0	53.9	58.6	46.9	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4474.0
4497.5
4532.7
4574.9
4614.7
4654.6
4717.9
4795.3
4884.4
4973.5
5074.3
5212.7
5409.7
5677.0
6014.6
6427.3
6910.4
7442.7
8010.1
8565.9
9149.8
9672.7
10197.9
10793.5
11480.6
12374.0
13185.3
12948.5
11173.4
7069.8
1965.0
490.1
262.6
173.5
112.6
46.9
0.0

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