

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: P956233

Luminaire Tested: **GALN-SB8D-950-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956233  
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-SB8D-950-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

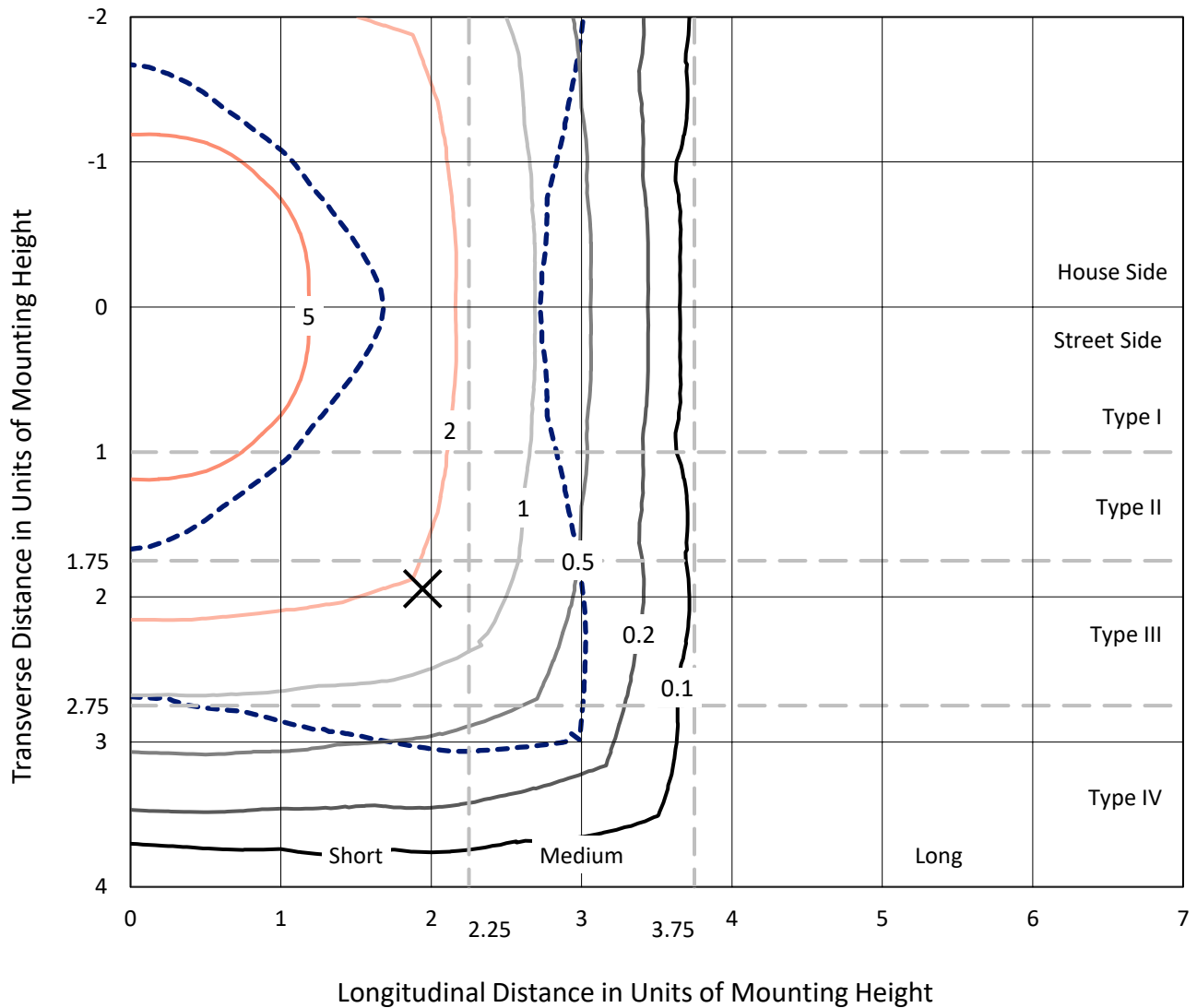
Lumens per Lamp: N/A  
Luminaire Lumens: 59947 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

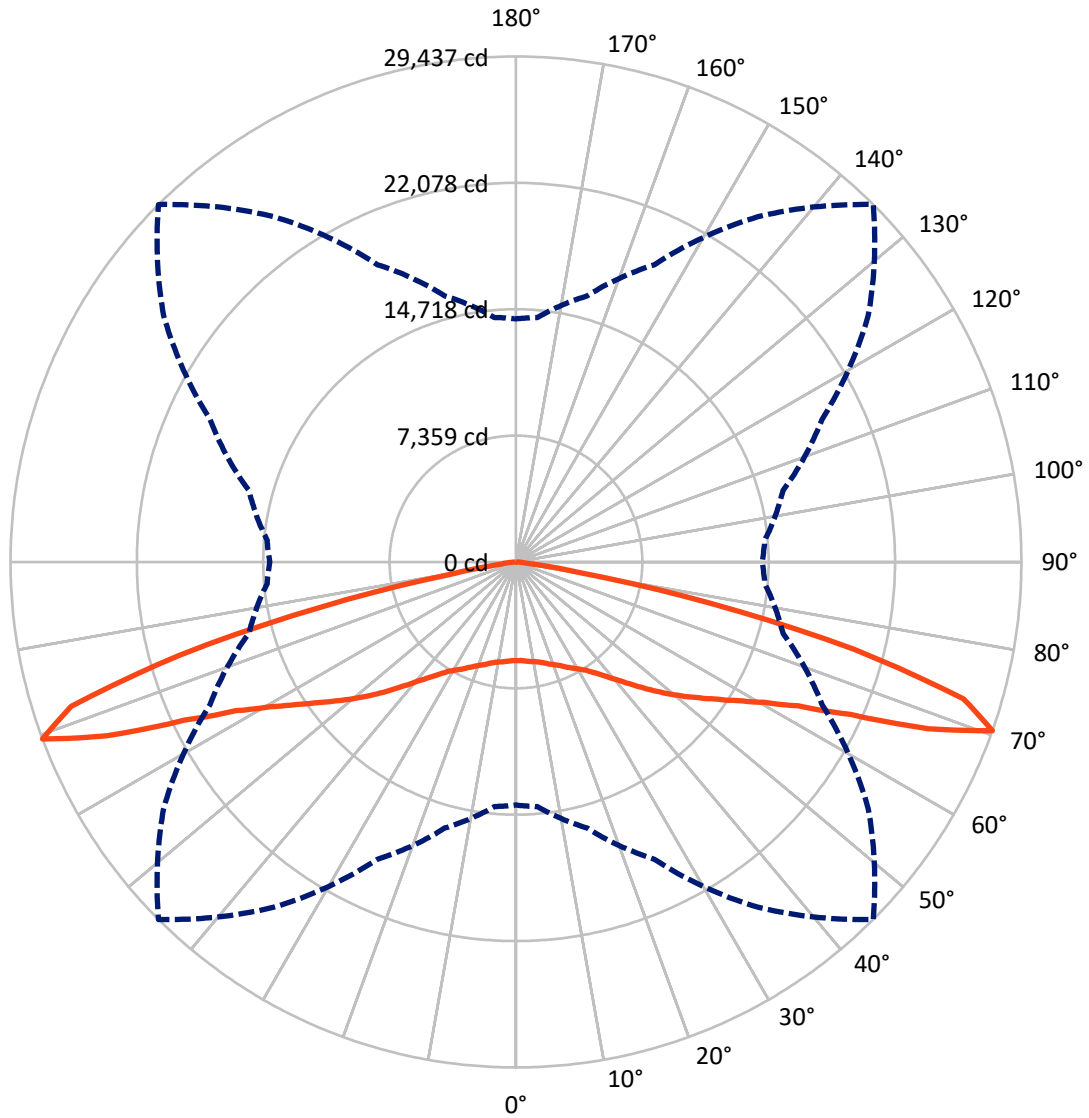
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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
<b>House Side</b>	Lumens	29973.5	0.0	29973.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29973.5	0.0	29973.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	59947.0	0.0	59947.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	557.9	0.9
10°-20°	1729.9	2.9
20°-30°	3091.5	5.2
30°-40°	5011.3	8.4
40°-50°	8162.5	13.6
50°-60°	12445.1	20.8
60°-70°	18514.3	30.9
70°-80°	10090.9	16.8
80°-90°	343.6	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°	59947.0	100.0
0°-180°	59947.0	100.0

**Coefficient of Utilization**



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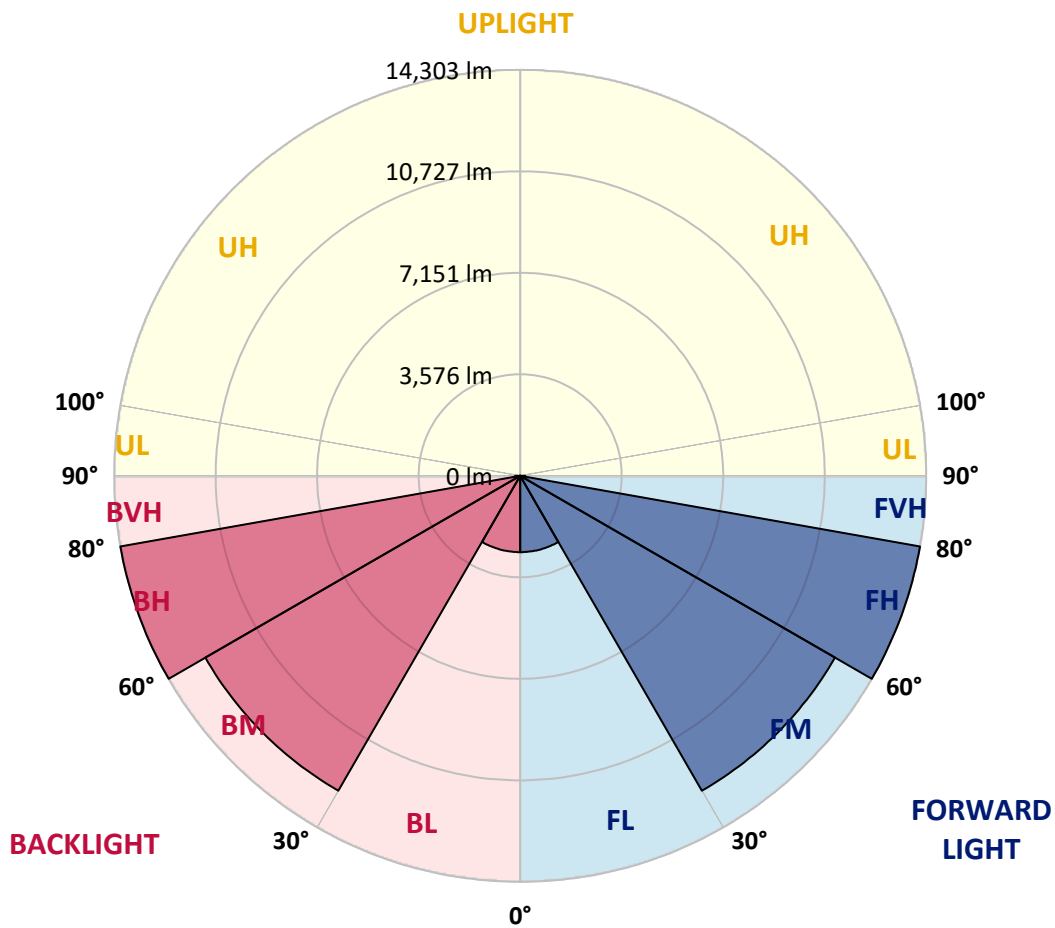
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2689.6	4.5			
FM (30°-60°)	12809.4	21.4			
FH (60°-80°)	14302.6	23.9			G5
FVH (80°-90°)	171.8	0.3			G2/225
BL (0°-30°)	2689.6	4.5	B4/5000		
BM (30°-60°)	12809.4	21.4	B5		
BH (60°-80°)	14302.6	23.9	B5		G5
BVH (80°-90°)	171.8	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-G5**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5742.3	5742.3	5742.3	5742.3	5742.3	5742.3	5742.3	5742.3	5742.3	5742.3
2.5°	5769.4	5775.4	5763.4	5757.4	5751.3	5742.3	5745.3	5760.4	5772.4	5769.4
5°	5817.5	5823.6	5814.5	5811.5	5799.5	5796.5	5796.5	5811.5	5820.6	5814.5
7.5°	5871.7	5880.7	5865.7	5862.7	5856.7	5850.6	5847.6	5862.7	5871.7	5871.7
10°	5922.9	5931.9	5919.9	5910.8	5904.8	5904.8	5898.8	5910.8	5925.9	5922.9
12.5°	5977.1	5983.1	5971.0	5965.0	5965.0	5974.0	5965.0	5971.0	5983.1	5977.1
15°	6043.3	6046.3	6043.3	6052.3	6067.3	6097.4	6070.3	6064.3	6070.3	6055.3
17.5°	6133.5	6139.6	6151.6	6172.7	6193.7	6247.9	6199.8	6184.7	6184.7	6154.6
20°	6244.9	6253.9	6272.0	6308.1	6335.2	6386.4	6338.2	6317.1	6308.1	6269.0
22.5°	6362.3	6377.3	6404.4	6452.6	6500.7	6548.9	6500.7	6464.6	6437.5	6386.4
25°	6497.7	6515.8	6557.9	6636.2	6702.4	6771.6	6714.4	6642.2	6588.0	6515.8
27.5°	6690.3	6711.4	6762.6	6858.9	6943.1	7003.3	6949.1	6855.9	6780.6	6693.3
30°	6961.2	6982.3	7042.4	7144.8	7202.0	7241.1	7205.0	7132.7	7042.4	6943.1
32.5°	7310.3	7337.4	7403.6	7499.9	7511.9	7518.0	7505.9	7469.8	7403.6	7283.2
35°	7752.7	7782.8	7858.0	7936.3	7924.3	7936.3	7918.2	7906.2	7858.0	7719.6
37.5°	8294.4	8330.6	8408.8	8469.0	8438.9	8423.8	8426.9	8429.9	8402.8	8249.3
40°	8923.4	8971.6	9028.8	9092.0	9040.8	8995.7	9025.8	9049.8	9025.8	8869.3
42.5°	9570.5	9639.7	9699.9	9790.2	9748.1	9690.9	9733.0	9760.1	9708.9	9540.4
45°	10289.8	10356.0	10434.3	10569.7	10539.6	10479.4	10539.6	10545.6	10458.3	10259.7
47.5°	11033.2	11102.4	11219.8	11400.3	11388.3	11322.1	11400.3	11358.2	11246.8	11009.1
50°	11737.4	11833.7	12014.3	12267.1	12291.2	12209.9	12315.3	12234.0	12047.4	11749.4
52.5°	12399.5	12501.8	12787.8	13130.9	13218.1	13112.8	13254.2	13112.8	12832.9	12450.7
55°	13094.7	13209.1	13549.2	13997.6	14172.2	14093.9	14226.3	14012.7	13615.4	13151.9
57.5°	13913.3	13982.6	14388.9	14921.6	15216.5	15234.6	15294.7	14933.6	14452.1	13925.4
60°	14801.2	14897.5	15339.9	15977.9	16444.4	16594.9	16531.7	15996.0	15436.2	14831.3
62.5°	15938.8	16044.1	16573.8	17338.3	18075.6	18448.8	18202.0	17425.5	16733.3	16008.0
65°	16880.8	16998.2	17955.2	19318.6	20660.9	21410.2	20790.3	19360.7	18114.7	17091.5
67.5°	16197.6	16342.1	17843.9	20347.9	23685.5	25921.6	23799.9	20654.8	18214.1	16826.6
70°	14157.1	14292.6	16044.1	19104.9	24537.2	29436.8	25048.8	19667.7	16101.3	14548.4
72.5°	9399.0	9835.3	11608.0	15279.7	21909.8	27239.8	22126.5	14969.7	10768.3	9377.9
75°	3117.9	3467.1	4676.9	7921.2	14674.8	20371.9	13970.5	7009.3	3704.8	2666.5
77.5°	785.5	905.9	1249.0	2266.2	5853.7	11599.0	5269.8	1850.9	1008.2	704.2
80°	382.2	421.3	601.9	755.4	1465.7	3686.8	1375.4	710.3	475.5	367.2
82.5°	210.7	213.7	340.1	427.4	544.7	954.0	565.8	415.3	273.9	222.7
85°	129.4	126.4	180.6	228.7	228.7	340.1	270.9	228.7	156.5	138.4
87.5°	51.2	51.2	66.2	72.2	63.2	87.3	69.2	75.2	60.2	57.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5742.3
5772.4
5817.5
5871.7
5922.9
5974.0
6055.3
6154.6
6269.0
6383.3
6512.8
6690.3
6943.1
7286.2
7719.6
8249.3
8869.3
9552.4
10280.8
10994.0
11743.4
12414.6
13088.7
13853.2
14735.0
15881.6
16922.9
16619.0
14340.7
9073.9
2522.0
629.0
337.1
222.7
144.5
60.2
0.0

OF REPORT)