

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: P957556

Luminaire Tested: **GALN-SB9D-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957556
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-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 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: 92847 lumens
Efficiency: N/A
Efficacy: 141.1 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

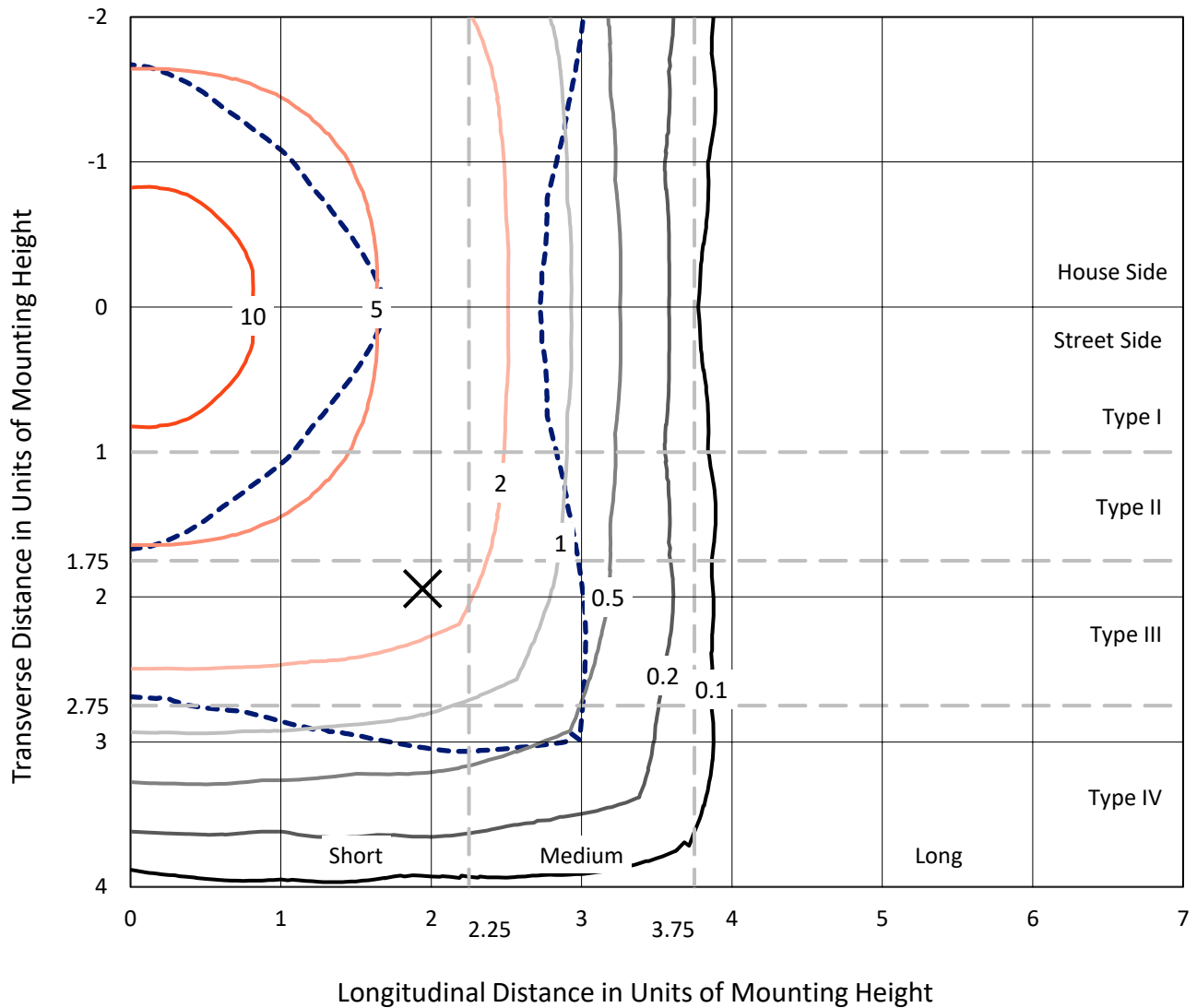
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

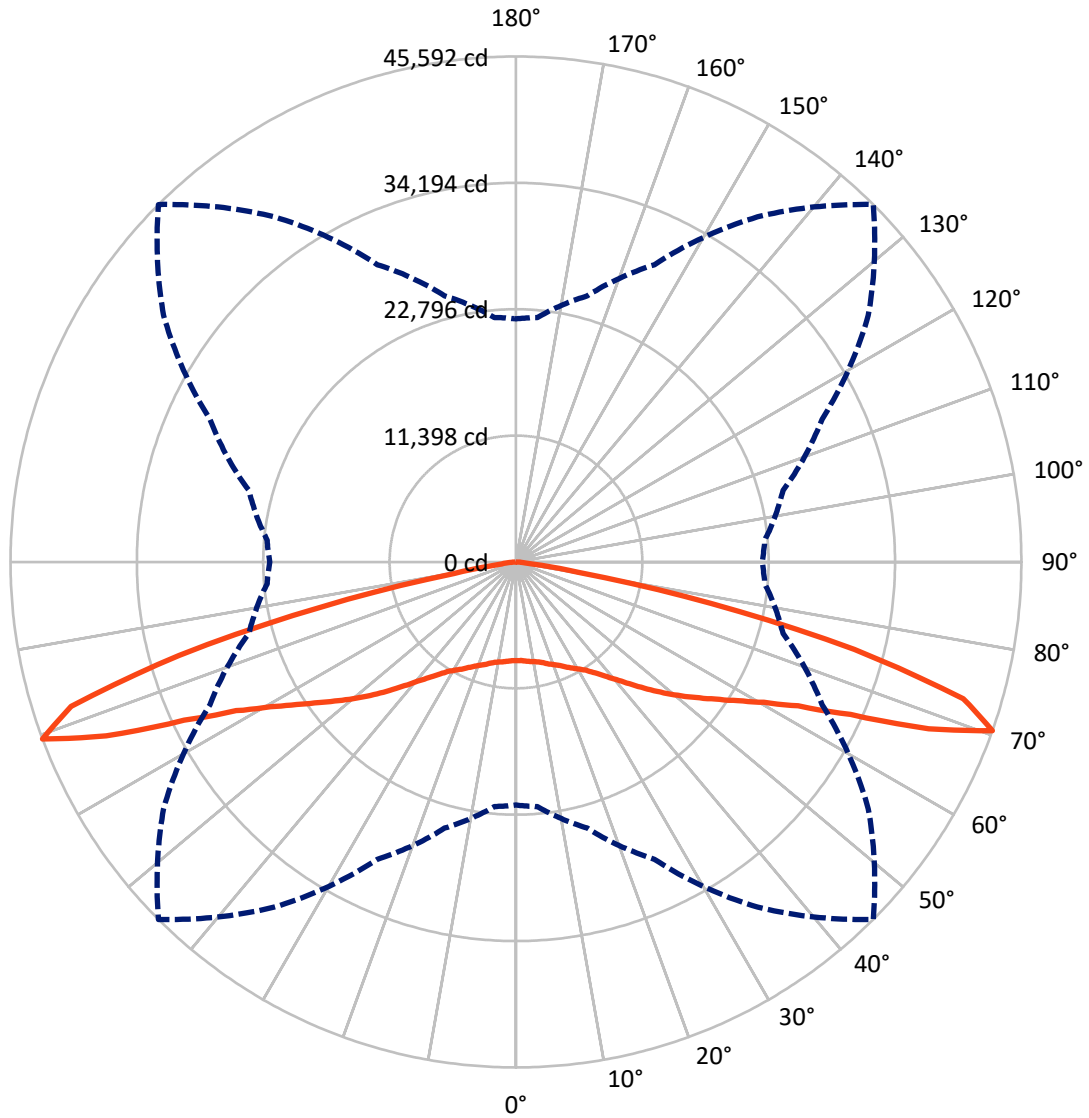
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 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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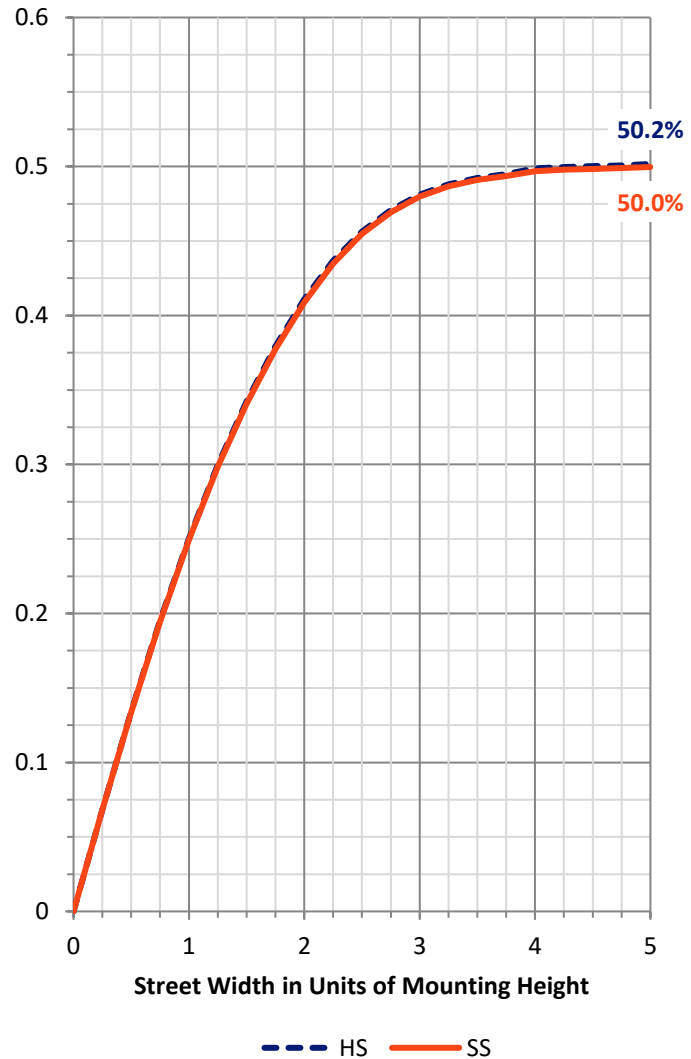
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46423.5	0.0	46423.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	46423.5	0.0	46423.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	92847.0	0.0	92847.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	864.0	0.9
10°-20°	2679.3	2.9
20°-30°	4788.1	5.2
30°-40°	7761.5	8.4
40°-50°	12642.3	13.6
50°-60°	19275.2	20.8
60°-70°	28675.3	30.9
70°-80°	15629.0	16.8
80°-90°	532.2	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°	92847.0	100.0
0°-180°	92847.0	100.0



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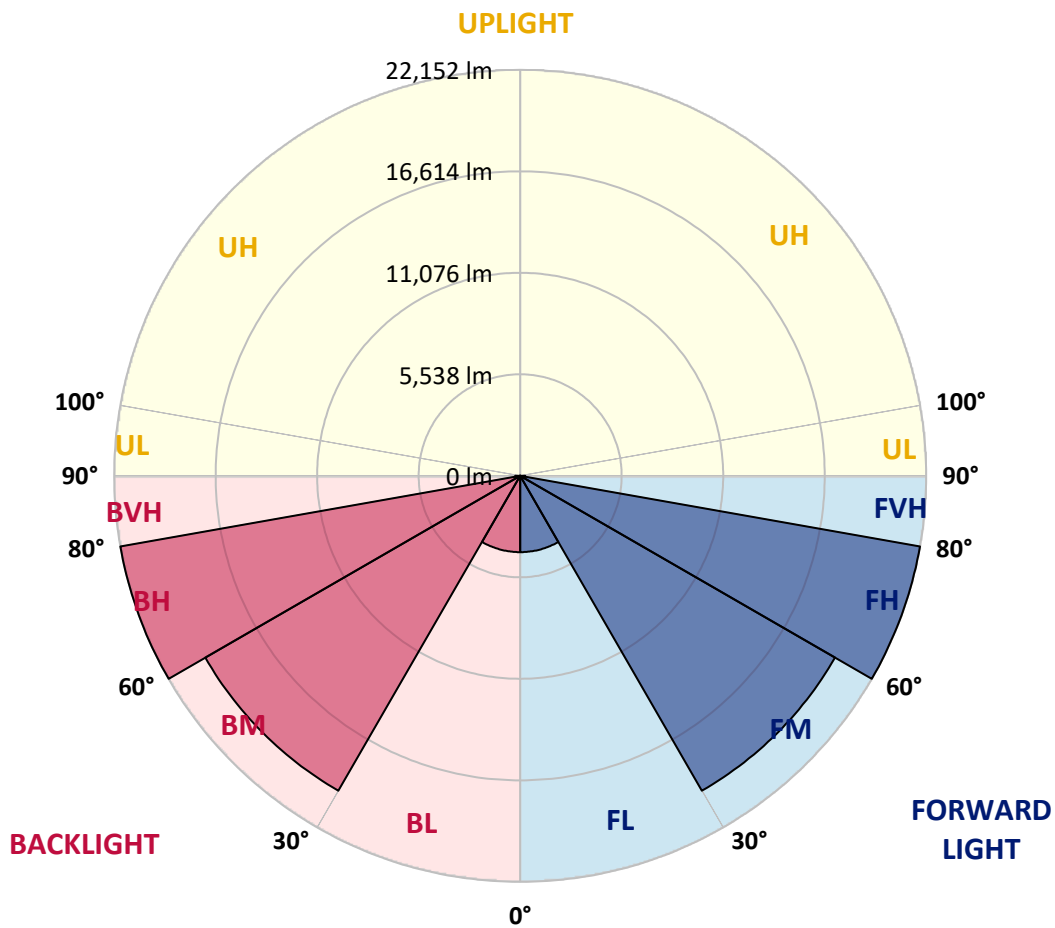
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4165.7	4.5			
FM (30°-60°)	19839.5	21.4			
FH (60°-80°)	22152.2	23.9			G5
FVH (80°-90°)	266.1	0.3			G3/500
BL (0°-30°)	4165.7	4.5	B4/5000		
BM (30°-60°)	19839.5	21.4	B5		
BH (60°-80°)	22152.2	23.9	B5		G5
BVH (80°-90°)	266.1	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°	8893.8	8893.8	8893.8	8893.8	8893.8	8893.8	8893.8	8893.8	8893.8	8893.8
2.5°	8935.7	8945.1	8926.4	8917.1	8907.8	8893.8	8898.4	8921.7	8940.4	8935.7
5°	9010.3	9019.6	9005.7	9001.0	8982.3	8977.7	8977.7	9001.0	9015.0	9005.7
7.5°	9094.2	9108.2	9084.9	9080.2	9070.9	9061.6	9056.9	9080.2	9094.2	9094.2
10°	9173.5	9187.4	9168.8	9154.8	9145.5	9145.5	9136.2	9154.8	9178.1	9173.5
12.5°	9257.4	9266.7	9248.0	9238.7	9238.7	9252.7	9238.7	9248.0	9266.7	9257.4
15°	9359.9	9364.6	9359.9	9373.9	9397.2	9443.8	9401.9	9392.5	9401.9	9378.6
17.5°	9499.8	9509.1	9527.7	9560.3	9593.0	9676.9	9602.3	9579.0	9579.0	9532.4
20°	9672.2	9686.2	9714.2	9770.1	9812.1	9891.3	9816.7	9784.1	9770.1	9709.5
22.5°	9854.0	9877.3	9919.3	9993.9	10068.4	10143.0	10068.4	10012.5	9970.5	9891.3
25°	10063.8	10091.7	10157.0	10278.2	10380.7	10488.0	10399.4	10287.5	10203.6	10091.7
27.5°	10362.1	10394.7	10474.0	10623.1	10753.6	10846.9	10763.0	10618.5	10501.9	10366.8
30°	10781.6	10814.2	10907.5	11066.0	11154.5	11215.1	11159.2	11047.3	10907.5	10753.6
32.5°	11322.3	11364.3	11466.8	11616.0	11634.6	11644.0	11625.3	11569.4	11466.8	11280.4
35°	12007.5	12054.2	12170.7	12291.9	12273.2	12291.9	12263.9	12245.3	12170.7	11956.3
37.5°	12846.6	12902.5	13023.7	13116.9	13070.3	13047.0	13051.7	13056.3	13014.4	12776.7
40°	13820.8	13895.4	13983.9	14081.8	14002.6	13932.7	13979.3	14016.6	13979.3	13736.9
42.5°	14823.0	14930.2	15023.4	15163.2	15098.0	15009.4	15074.7	15116.6	15037.4	14776.4
45°	15937.0	16039.6	16160.8	16370.5	16323.9	16230.7	16323.9	16333.2	16198.1	15890.4
47.5°	17088.4	17195.6	17377.4	17657.0	17638.4	17535.9	17657.0	17591.8	17419.3	17051.1
50°	18179.1	18328.3	18608.0	18999.5	19036.8	18910.9	19074.1	18948.2	18659.2	18197.8
52.5°	19204.6	19363.1	19805.9	20337.3	20472.5	20309.3	20528.4	20309.3	19875.8	19283.8
55°	20281.4	20458.5	20985.2	21679.8	21950.1	21828.9	22034.0	21703.1	21087.8	20369.9
57.5°	21549.2	21656.5	22285.7	23110.8	23567.6	23595.6	23688.8	23129.4	22383.6	21567.9
60°	22924.3	23073.5	23758.7	24746.9	25469.4	25702.5	25604.6	24774.9	23907.9	22970.9
62.5°	24686.3	24849.4	25669.8	26853.8	27995.8	28573.8	28191.6	26989.0	25916.9	24793.5
65°	26145.3	26327.1	27809.4	29921.0	31999.9	33160.6	32200.3	29986.2	28056.4	26471.6
67.5°	25087.2	25310.9	27636.9	31515.1	36684.5	40147.9	36861.6	31990.6	28210.3	26061.4
70°	21926.8	22136.6	24849.4	29590.0	38003.7	45592.3	38796.1	30461.7	24938.0	22532.8
72.5°	14557.3	15233.2	17978.7	23665.5	33934.3	42189.5	34270.0	23185.4	16678.2	14524.6
75°	4829.1	5369.8	7243.7	12268.6	22728.6	31552.4	21637.8	10856.2	5738.1	4129.9
77.5°	1216.6	1403.1	1934.4	3510.0	9066.3	17964.7	8162.0	2866.7	1561.5	1090.7
80°	592.0	652.6	932.3	1170.0	2270.1	5710.1	2130.2	1100.1	736.5	568.7
82.5°	326.3	331.0	526.7	661.9	843.7	1477.6	876.3	643.3	424.2	344.9
85°	200.4	195.8	279.7	354.3	354.3	526.7	419.5	354.3	242.4	214.4
87.5°	79.2	79.2	102.5	111.9	97.9	135.2	107.2	116.5	93.2	88.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8893.8
8940.4
9010.3
9094.2
9173.5
9252.7
9378.6
9532.4
9709.5
9886.6
10087.1
10362.1
10753.6
11285.0
11956.3
12776.7
13736.9
14795.0
15923.0
17027.8
18188.4
19227.9
20272.0
21456.0
22821.8
24597.7
26210.6
25739.8
22211.1
14053.9
3906.2
974.2
522.1
344.9
223.7
93.2
0.0

OF REPORT)