

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: P944770

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944770
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-SB9D-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 89677 lumens
Efficiency: N/A
Efficacy: 136.3 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

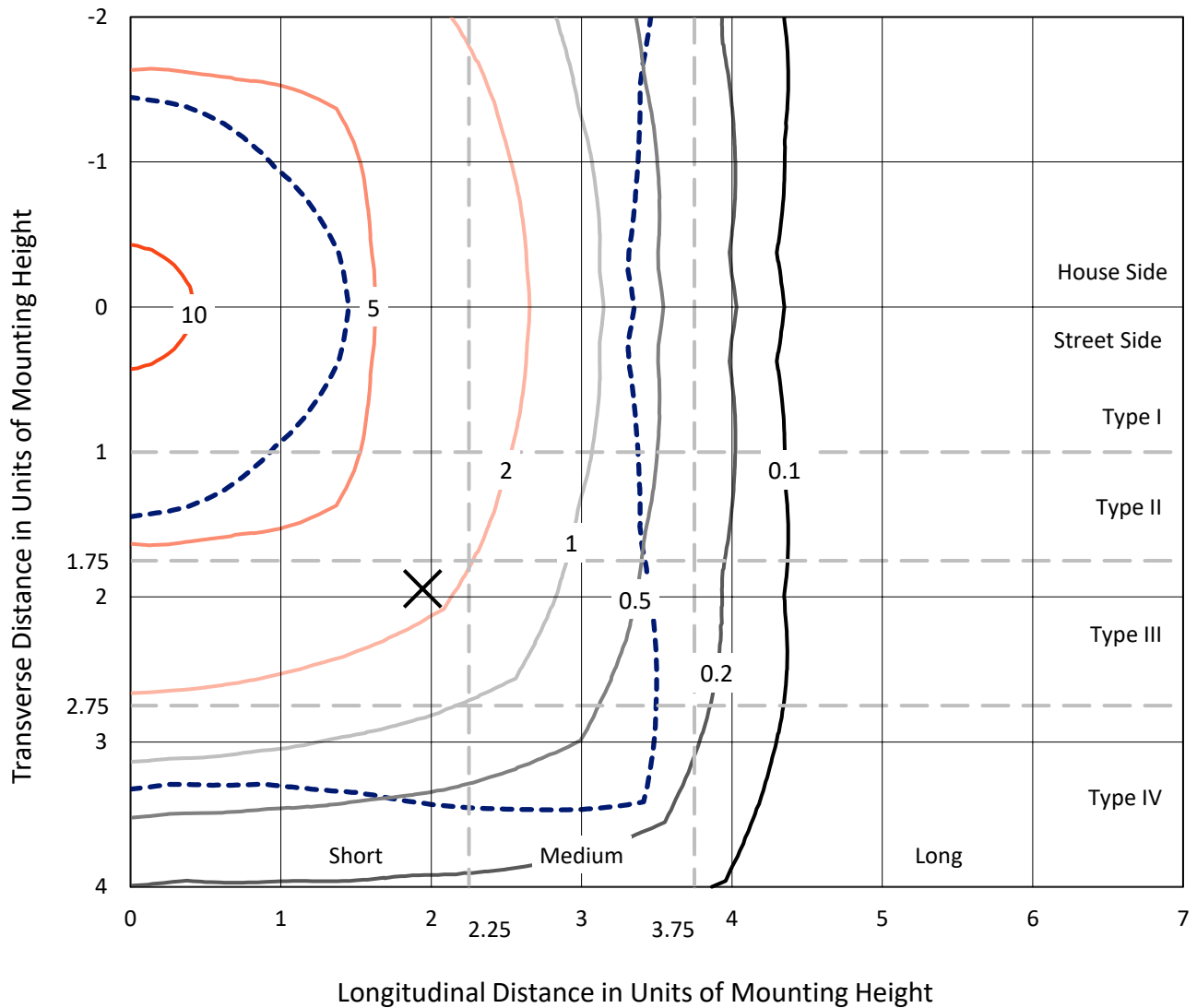
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

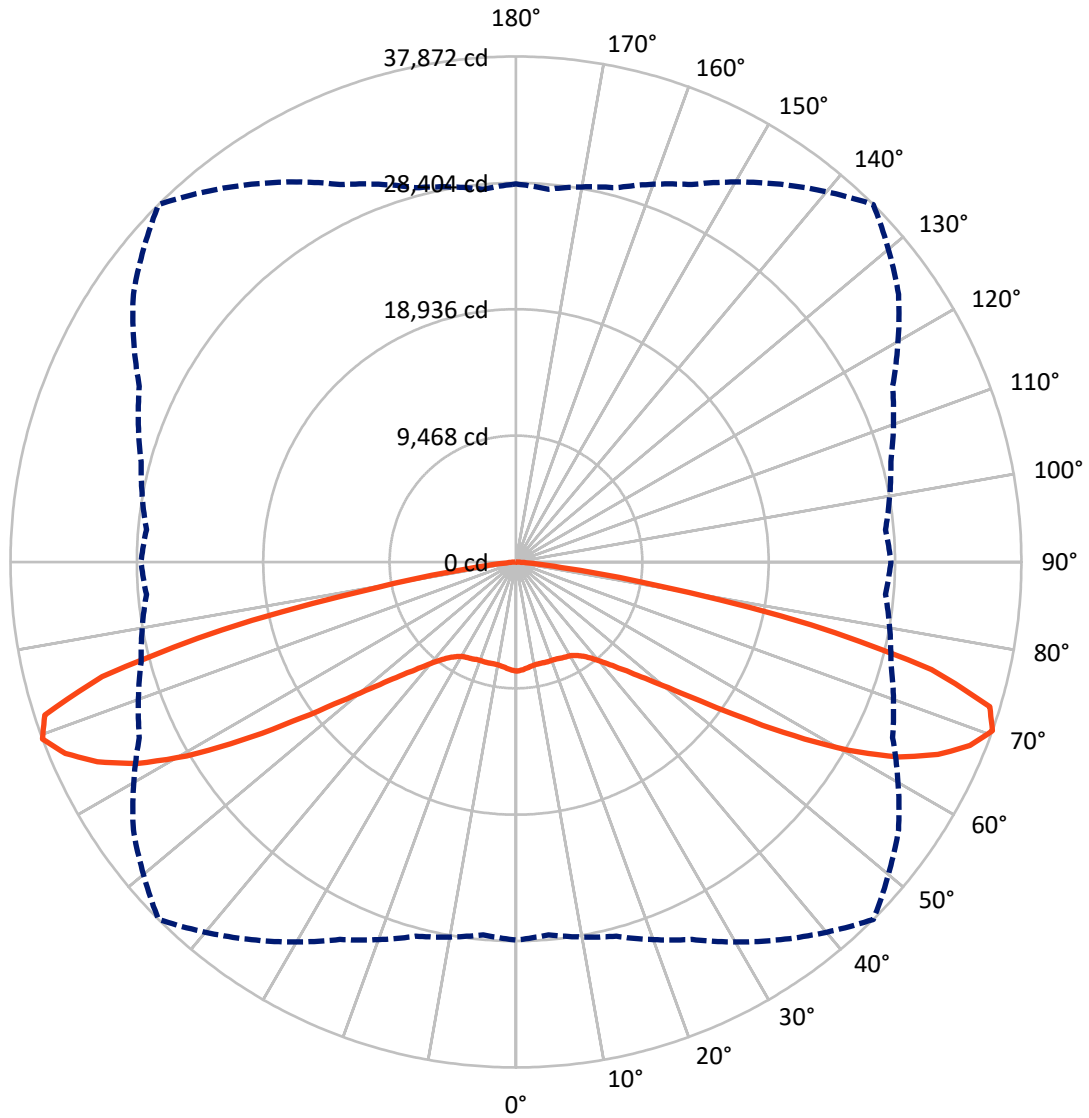
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.1 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	44838.5	0.0	44838.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	44838.5	0.0	44838.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	89677.0	0.0	89677.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	761.0	0.8
10°-20°	2234.4	2.5
20°-30°	3718.3	4.1
30°-40°	5623.2	6.3
40°-50°	9344.5	10.4
50°-60°	17632.7	19.7
60°-70°	29773.6	33.2
70°-80°	19564.3	21.8
80°-90°	1025.0	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°	89677.0	100.0
0°-180°	89677.0	100.0

Coefficient of Utilization



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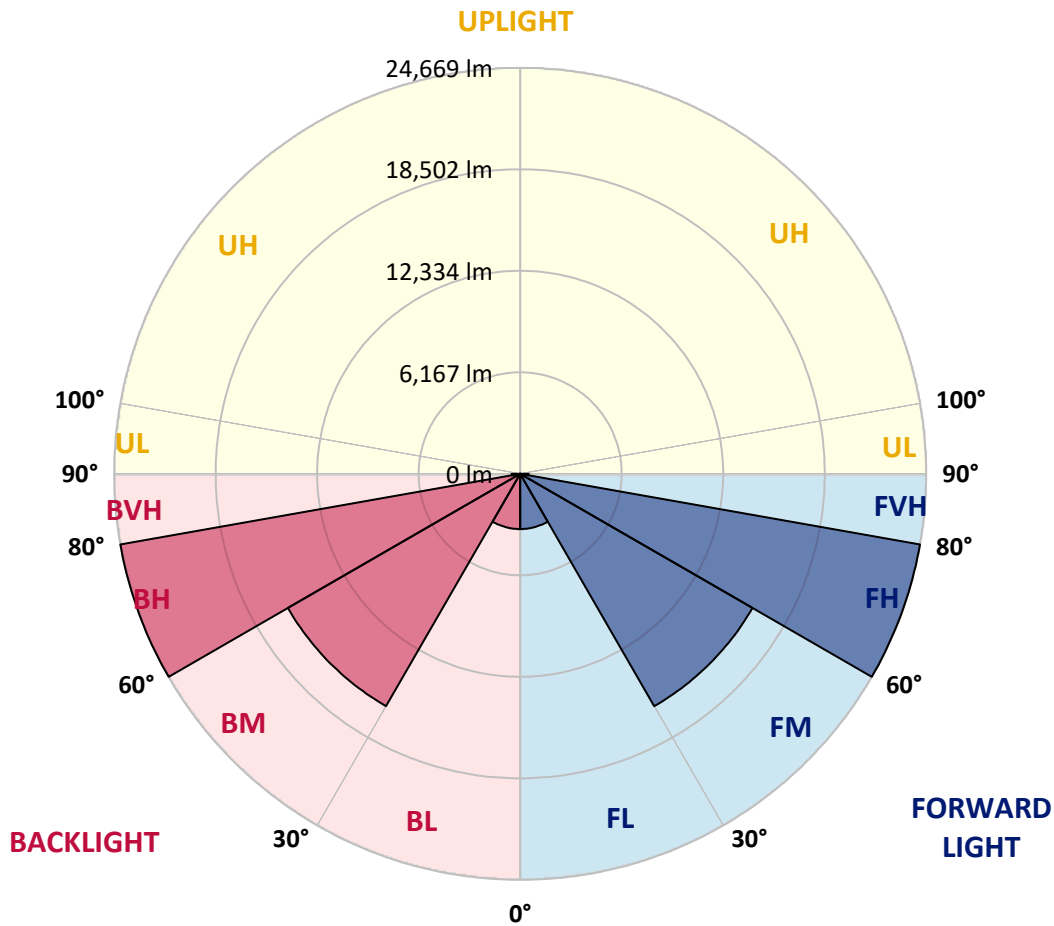
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3356.8	3.7			
FM (30°-60°)	16300.2	18.2			
FH (60°-80°)	24668.9	27.5			G5
FVH (80°-90°)	512.5	0.6			G4/750
BL (0°-30°)	3356.8	3.7	B4/5000		
BM (30°-60°)	16300.2	18.2	B5		
BH (60°-80°)	24668.9	27.5	B5		G5
BVH (80°-90°)	512.5	0.6			G4/750
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°	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3	8180.3
2.5°	8129.1	8152.4	8143.1	8124.4	8124.4	8110.4	8124.4	8133.7	8147.7	8157.0
5°	8021.9	8040.5	8035.9	8021.9	8026.5	8012.5	8021.9	8035.9	8045.2	8049.8
7.5°	7928.6	7947.3	7938.0	7914.7	7914.7	7900.7	7905.3	7919.3	7933.3	7938.0
10°	7905.3	7924.0	7896.0	7858.7	7844.7	7826.1	7830.8	7844.7	7872.7	7886.7
12.5°	7914.7	7928.6	7900.7	7844.7	7830.8	7812.1	7812.1	7826.1	7863.4	7882.0
15°	7942.6	7956.6	7914.7	7854.1	7840.1	7826.1	7821.4	7840.1	7882.0	7914.7
17.5°	7993.9	8007.9	7942.6	7858.7	7840.1	7844.7	7840.1	7854.1	7919.3	7979.9
20°	8040.5	8049.8	7961.3	7858.7	7840.1	7844.7	7840.1	7868.0	7952.0	8035.9
22.5°	8054.5	8063.8	7979.9	7891.4	7877.4	7882.0	7877.4	7905.3	7984.6	8068.5
25°	8059.2	8073.1	8007.9	7938.0	7961.3	7970.6	7961.3	7965.9	8026.5	8101.1
27.5°	8129.1	8147.7	8087.1	8026.5	8040.5	8035.9	8049.8	8063.8	8110.4	8185.0
30°	8273.6	8287.6	8236.3	8175.7	8166.4	8133.7	8175.7	8222.3	8273.6	8338.8
32.5°	8511.3	8539.3	8474.0	8408.7	8366.8	8348.1	8380.8	8460.0	8529.9	8599.9
35°	8907.5	8926.1	8865.5	8744.3	8669.8	8669.8	8697.7	8800.3	8912.2	9000.7
37.5°	9466.8	9490.1	9382.9	9238.4	9126.6	9126.6	9163.9	9271.1	9438.9	9564.7
40°	10147.4	10180.0	10044.8	9895.7	9788.5	9769.8	9816.4	9937.6	10096.1	10254.6
42.5°	10967.7	11005.0	10827.9	10697.4	10613.5	10613.5	10636.8	10748.7	10893.1	11088.9
45°	12016.5	12081.7	11839.4	11708.9	11629.6	11648.3	11662.2	11760.1	11890.6	12114.4
47.5°	13265.7	13330.9	13074.6	12939.4	12925.4	13014.0	12958.0	13028.0	13097.9	13354.2
50°	14682.7	14794.5	14617.4	14608.1	14636.1	14799.2	14668.7	14706.0	14626.7	14789.9
52.5°	16416.6	16579.8	16547.1	16603.1	16915.4	17251.0	16952.7	16822.2	16523.8	16575.1
55°	18518.8	18765.9	18812.5	19148.1	19856.6	20541.8	19907.8	19381.1	18747.2	18630.7
57.5°	20910.0	21105.8	21329.5	22014.7	23338.5	24555.0	23338.5	22173.2	21175.7	20938.0
60°	23483.0	23725.3	23939.8	24951.2	26918.2	28628.9	26880.9	25030.5	23711.4	23389.7
62.5°	26247.0	26559.3	26708.5	27831.8	30125.1	32166.7	30157.7	27915.7	26452.1	26107.2
65°	28899.2	29155.6	29323.4	30521.3	32712.1	34758.3	32861.2	30651.8	29146.3	28694.1
67.5°	30134.4	30274.3	30684.5	32040.9	34352.8	36688.0	34744.3	32185.4	30502.7	29710.3
70°	28325.9	28041.6	29029.7	31201.9	34548.6	37872.0	34996.0	31136.6	29076.4	27789.9
72.5°	21888.8	21399.4	23114.7	26829.7	32311.2	37116.9	32534.9	27039.4	24182.1	21571.9
75°	11909.3	11354.6	13722.5	18420.9	25766.9	32171.4	26358.9	18947.6	15279.3	11820.7
77.5°	3360.7	3150.9	5062.0	8912.2	15498.4	22588.0	16095.0	9107.9	6003.6	3561.1
80°	1030.1	997.5	1351.7	2684.8	6581.6	10818.6	6325.2	2717.5	1720.0	1086.1
82.5°	610.6	559.3	671.2	978.8	1678.0	3398.0	1631.4	1020.8	820.4	550.0
85°	349.6	326.3	396.2	475.4	564.0	722.5	470.8	484.8	438.1	293.7
87.5°	144.5	130.5	153.8	149.2	130.5	167.8	125.9	149.2	177.1	116.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8180.3
8152.4
8049.8
7938.0
7886.7
7886.7
7919.3
7979.9
8040.5
8068.5
8096.4
8166.4
8324.8
8571.9
8968.1
9518.1
10203.3
11074.9
12105.1
13279.7
14692.0
16402.6
18448.9
20770.2
23110.1
25827.5
28470.4
29719.6
28097.5
22219.8
12589.8
3957.3
1146.6
596.6
307.6
107.2
0.0

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