

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: P944600

Luminaire Tested: **GALN-SB9C-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944600
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-SB9C-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65998 lumens
Efficiency: N/A
Efficacy: 146.7 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

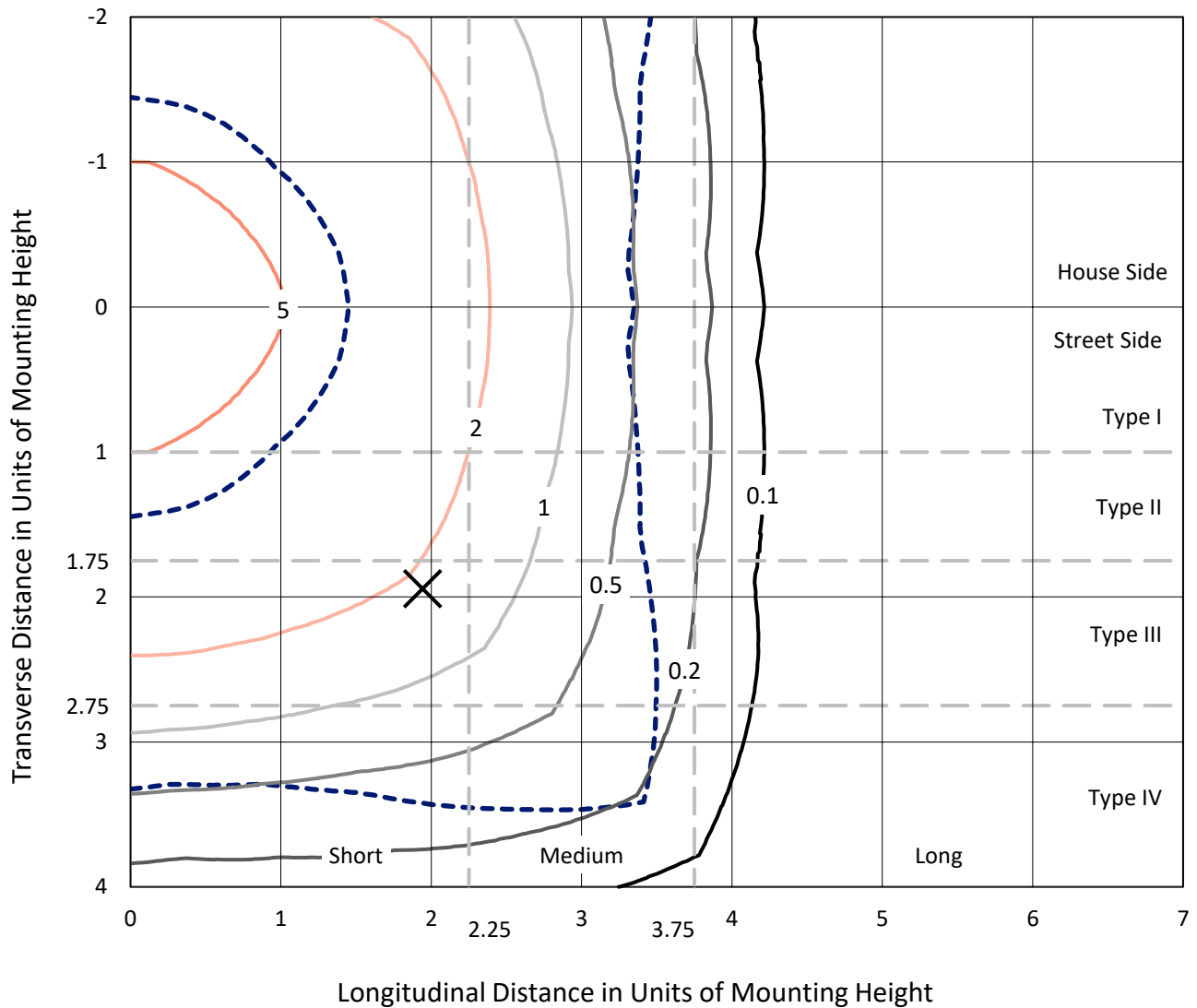
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

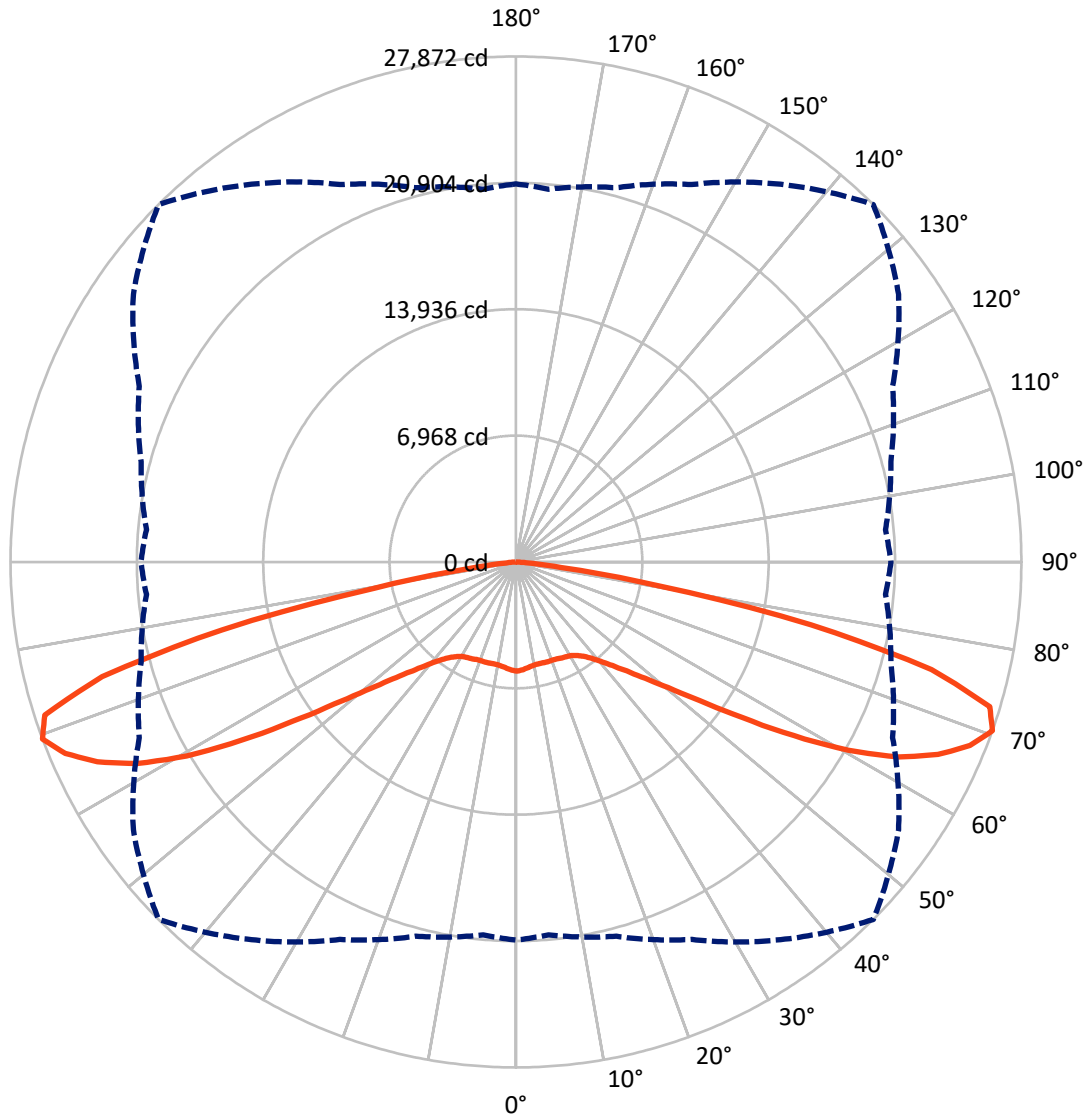
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 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	32999.0	0.0	32999.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	32999.0	0.0	32999.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	65998.0	0.0	65998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	560.0	0.8
10°-20°	1644.4	2.5
20°-30°	2736.5	4.1
30°-40°	4138.4	6.3
40°-50°	6877.1	10.4
50°-60°	12976.8	19.7
60°-70°	21911.9	33.2
70°-80°	14398.4	21.8
80°-90°	754.3	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°	65998.0	100.0
0°-180°	65998.0	100.0

Coefficient of Utilization

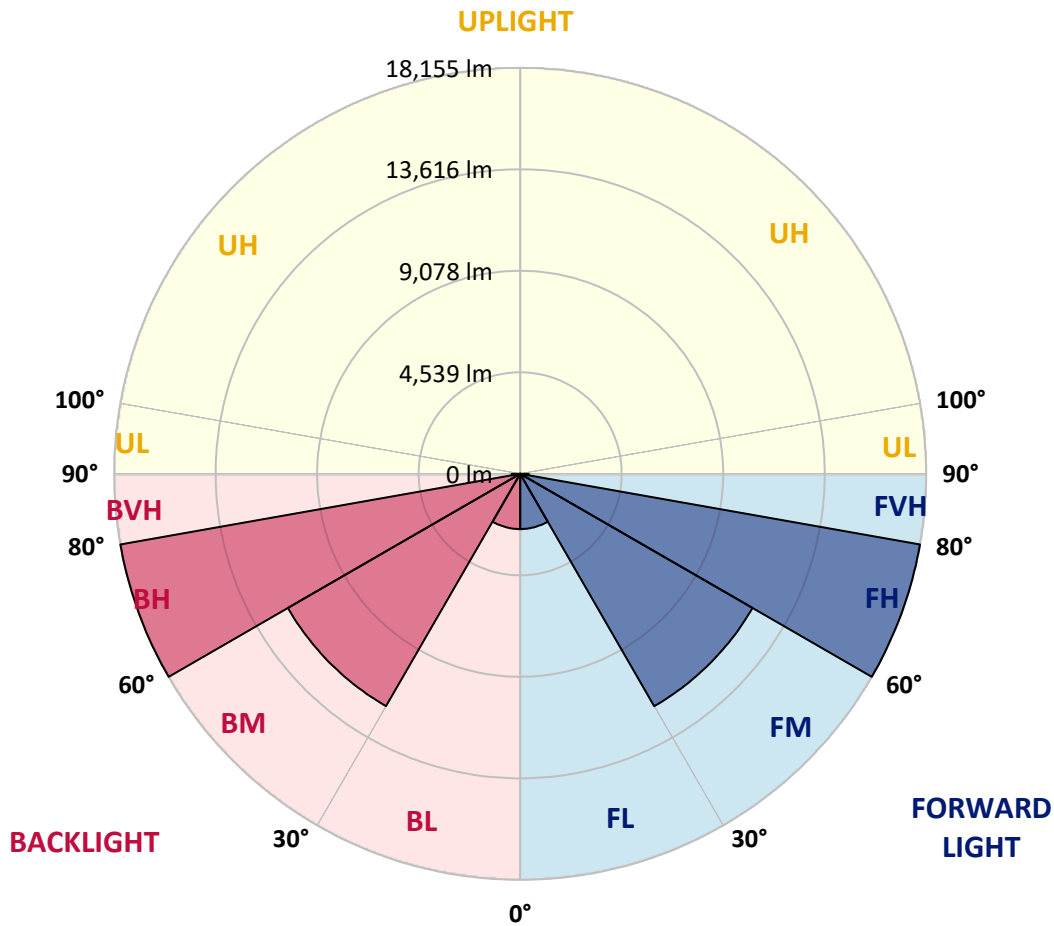


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2470.5	3.7			
FM (30°-60°)	11996.2	18.2			
FH (60°-80°)	18155.2	27.5			G5
FVH (80°-90°)	377.2	0.6			G3/500
BL (0°-30°)	2470.5	3.7	B3/2500		
BM (30°-60°)	11996.2	18.2	B5		
BH (60°-80°)	18155.2	27.5	B5		G5
BVH (80°-90°)	377.2	0.6			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°	6020.3	6020.3	6020.3	6020.3	6020.3	6020.3	6020.3	6020.3	6020.3	6020.3
2.5°	5982.6	5999.8	5992.9	5979.2	5979.2	5968.9	5979.2	5986.0	5996.3	6003.2
5°	5903.7	5917.4	5914.0	5903.7	5907.1	5896.9	5903.7	5914.0	5920.9	5924.3
7.5°	5835.1	5848.8	5842.0	5824.8	5824.8	5814.5	5818.0	5828.2	5838.5	5842.0
10°	5818.0	5831.7	5811.1	5783.6	5773.4	5759.6	5763.1	5773.4	5793.9	5804.2
12.5°	5824.8	5835.1	5814.5	5773.4	5763.1	5749.3	5749.3	5759.6	5787.1	5800.8
15°	5845.4	5855.7	5824.8	5780.2	5769.9	5759.6	5756.2	5769.9	5800.8	5824.8
17.5°	5883.1	5893.4	5845.4	5783.6	5769.9	5773.4	5769.9	5780.2	5828.2	5872.8
20°	5917.4	5924.3	5859.1	5783.6	5769.9	5773.4	5769.9	5790.5	5852.3	5914.0
22.5°	5927.7	5934.6	5872.8	5807.7	5797.4	5800.8	5797.4	5818.0	5876.3	5938.0
25°	5931.2	5941.4	5893.4	5842.0	5859.1	5866.0	5859.1	5862.5	5907.1	5962.0
27.5°	5982.6	5996.3	5951.7	5907.1	5917.4	5914.0	5924.3	5934.6	5968.9	6023.8
30°	6089.0	6099.2	6061.5	6016.9	6010.1	5986.0	6016.9	6051.2	6089.0	6137.0
32.5°	6263.9	6284.5	6236.5	6188.4	6157.6	6143.8	6167.9	6226.2	6277.6	6329.1
35°	6555.5	6569.2	6524.6	6435.4	6380.5	6380.5	6401.1	6476.6	6558.9	6624.1
37.5°	6967.1	6984.3	6905.4	6799.0	6716.7	6716.7	6744.2	6823.1	6946.6	7039.2
40°	7468.0	7492.0	7392.5	7282.7	7203.8	7190.1	7224.4	7313.6	7430.2	7546.9
42.5°	8071.7	8099.2	7968.8	7872.8	7811.0	7811.0	7828.2	7910.5	8016.8	8160.9
45°	8843.6	8891.6	8713.2	8617.2	8558.8	8572.6	8582.9	8654.9	8750.9	8915.6
47.5°	9762.9	9810.9	9622.3	9522.8	9512.5	9577.7	9536.5	9588.0	9639.4	9828.1
50°	10805.7	10888.1	10757.7	10750.9	10771.4	10891.5	10795.5	10822.9	10764.6	10884.6
52.5°	12081.9	12201.9	12177.9	12219.1	12448.9	12695.9	12476.4	12380.3	12160.8	12198.5
55°	13629.0	13810.8	13845.1	14092.1	14613.5	15117.8	14651.2	14263.6	13797.1	13711.3
57.5°	15388.8	15532.8	15697.5	16201.8	17176.0	18071.3	17176.0	16318.4	15584.3	15409.3
60°	17282.3	17460.7	17618.5	18362.9	19810.5	21069.5	19783.1	18421.2	17450.4	17213.7
62.5°	19316.6	19546.4	19656.2	20482.9	22170.7	23673.2	22194.7	20544.6	19467.5	19213.7
65°	21268.5	21457.1	21580.6	22462.2	24074.5	25580.5	24184.3	22558.3	21450.3	21117.5
67.5°	22177.5	22280.4	22582.3	23580.5	25282.0	27000.7	25570.2	23686.9	22448.5	21865.3
70°	20846.5	20637.3	21364.5	22963.1	25426.1	27872.0	25755.4	22915.1	21398.8	20452.0
72.5°	16109.1	15749.0	17011.3	19745.4	23779.5	27316.2	23944.2	19899.7	17796.9	15875.9
75°	8764.7	8356.4	10099.1	13556.9	18963.2	23676.6	19398.9	13944.6	11244.8	8699.5
77.5°	2473.3	2318.9	3725.4	6558.9	11406.1	16623.7	11845.2	6703.0	4418.4	2620.8
80°	758.1	734.1	994.8	1975.9	4843.7	7962.0	4655.0	1999.9	1265.8	799.3
82.5°	449.4	411.6	494.0	720.4	1234.9	2500.8	1200.6	751.3	603.7	404.8
85°	257.3	240.1	291.6	349.9	415.1	531.7	346.5	356.8	322.5	216.1
87.5°	106.3	96.1	113.2	109.8	96.1	123.5	92.6	109.8	130.4	85.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6020.3
5999.8
5924.3
5842.0
5804.2
5804.2
5828.2
5872.8
5917.4
5938.0
5958.6
6010.1
6126.7
6308.5
6600.1
7004.9
7509.1
8150.6
8908.7
9773.2
10812.6
12071.6
13577.5
15285.8
17007.9
19007.8
20952.9
21872.2
20678.4
16352.7
9265.5
2912.4
843.9
439.1
226.4
78.9
0.0

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