

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: P943920

Luminaire Tested: **GALN-SB8C-850-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943920  
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-SB8C-850-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

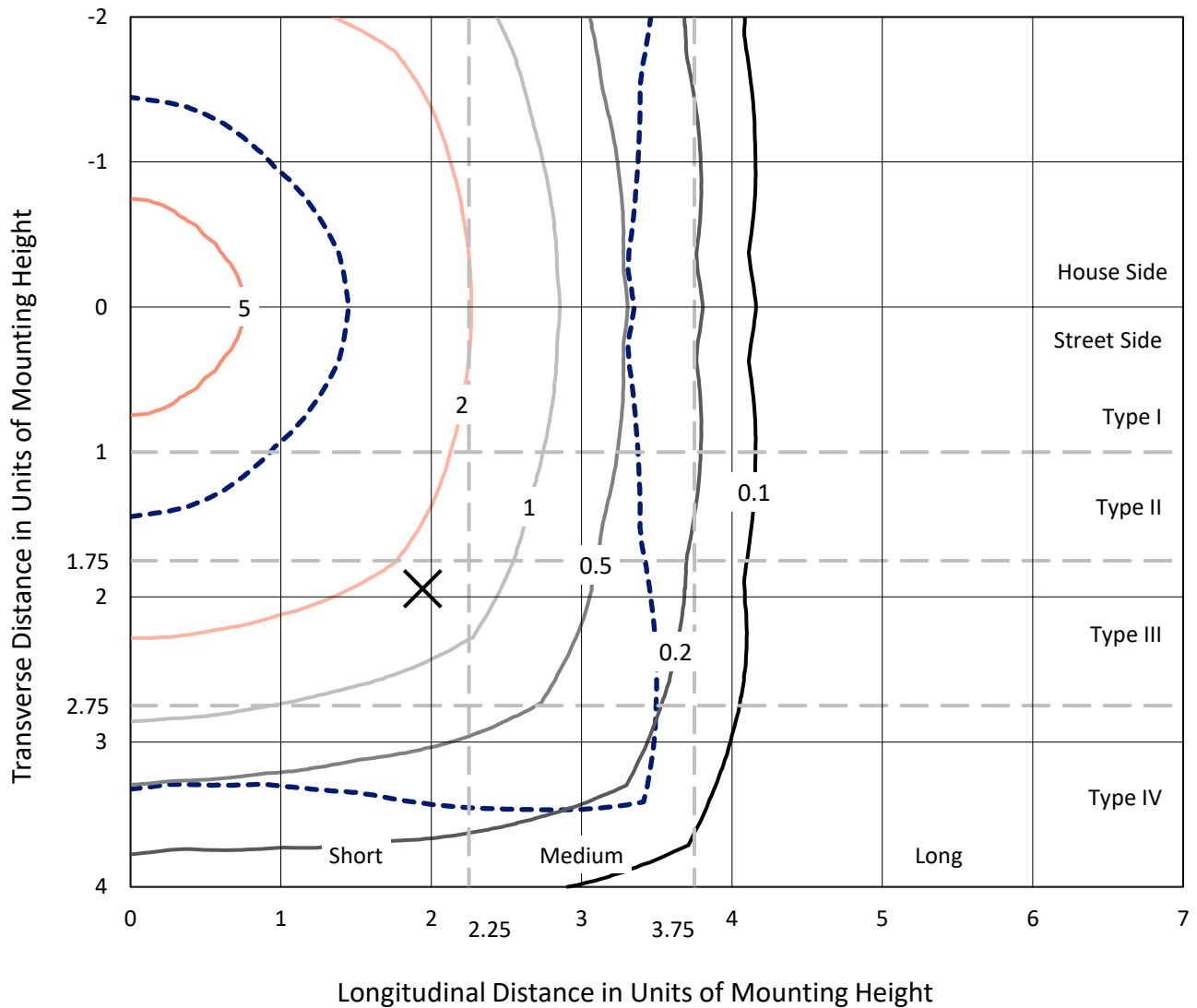
Lumens per Lamp: N/A  
Luminaire Lumens: 58592 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

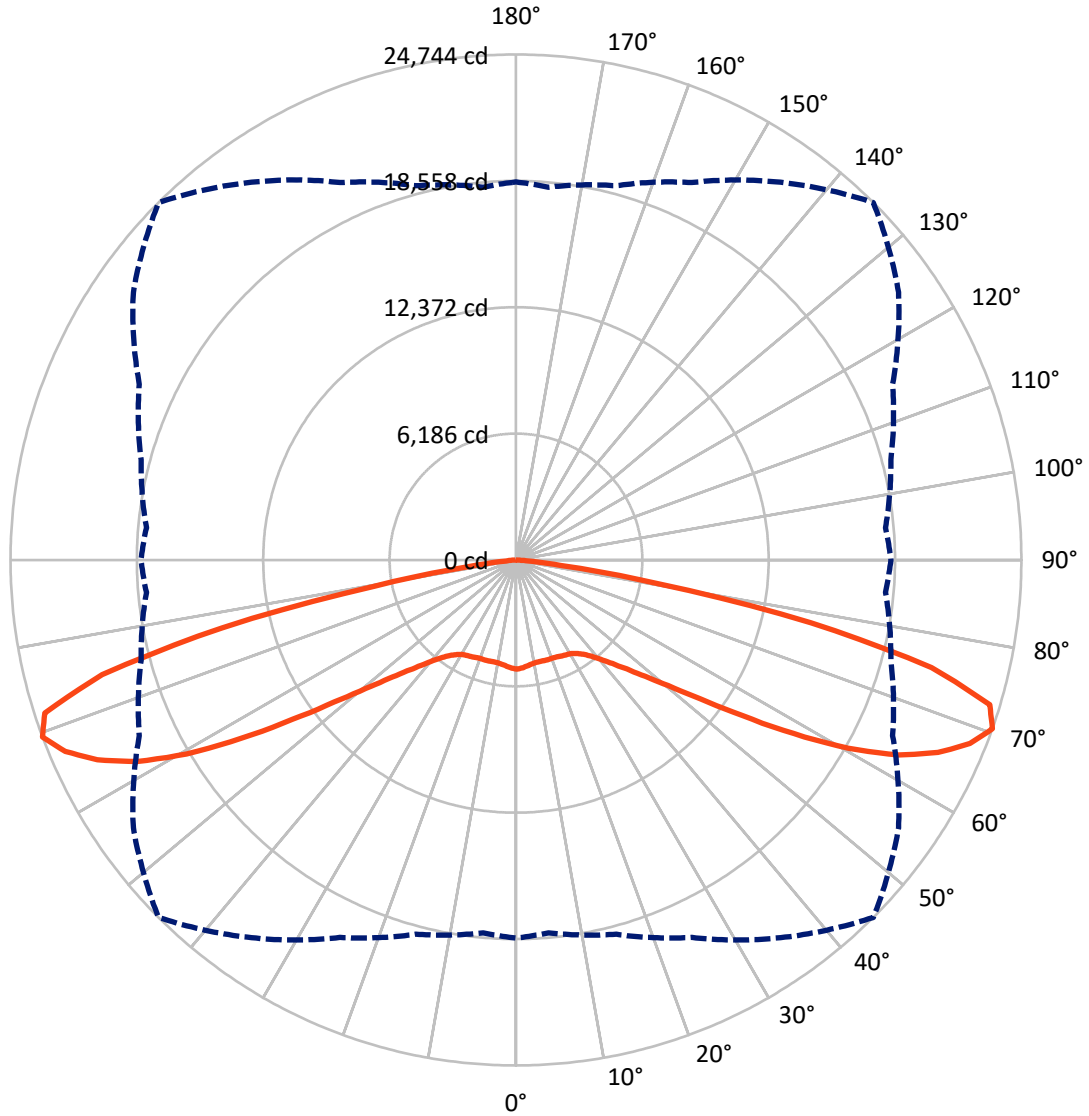
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 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
<b>House Side</b>	Lumens	29296.0	0.0	29296.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29296.0	0.0	29296.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	58592.0	0.0	58592.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	497.2	0.8
10°-20°	1459.9	2.5
20°-30°	2429.4	4.1
30°-40°	3674.0	6.3
40°-50°	6105.4	10.4
50°-60°	11520.6	19.7
60°-70°	19453.1	33.2
70°-80°	12782.7	21.8
80°-90°	669.7	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°	58592.0	100.0
0°-180°	58592.0	100.0

**Coefficient of Utilization**



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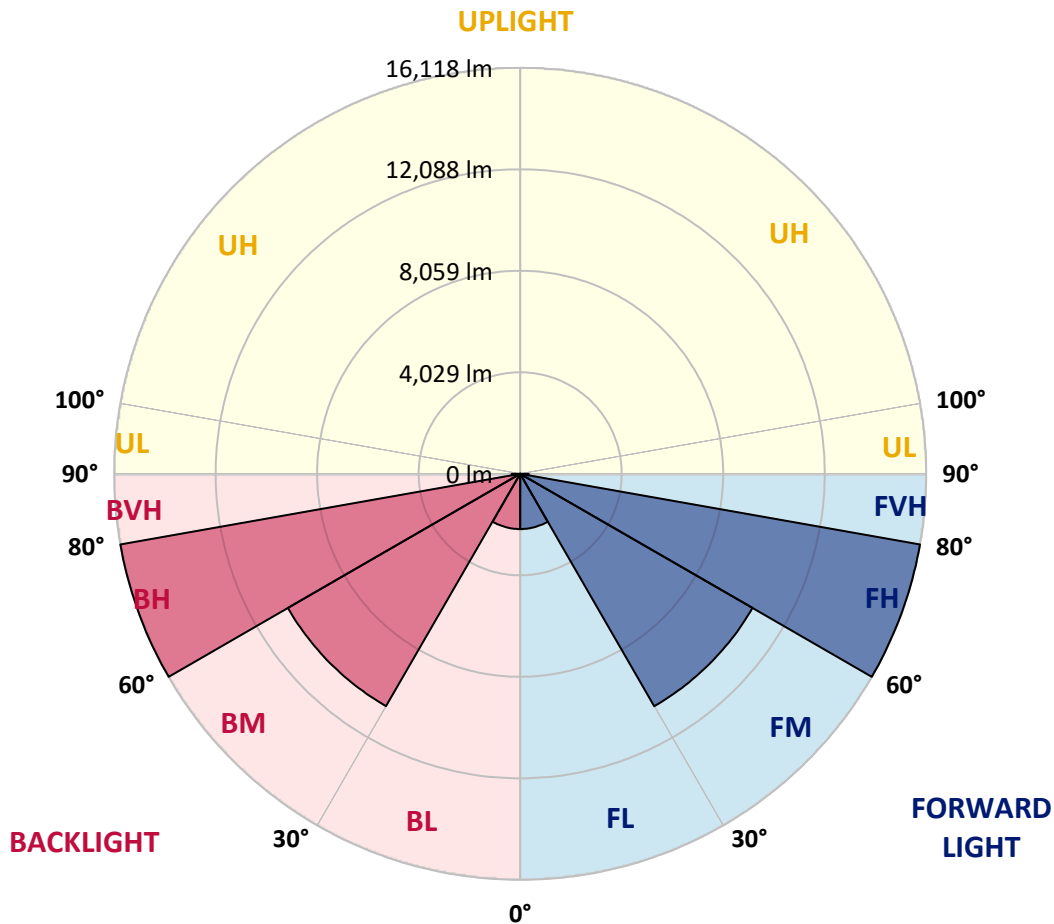
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2193.3	3.7			
FM (30°-60°)	10650.0	18.2			
FH (60°-80°)	16117.9	27.5			G5
FVH (80°-90°)	334.8	0.6			G3/500
BL (0°-30°)	2193.3	3.7	B3/2500		
BM (30°-60°)	10650.0	18.2	B5		
BH (60°-80°)	16117.9	27.5	B5		G5
BVH (80°-90°)	334.8	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°	5344.8	5344.8	5344.8	5344.8	5344.8	5344.8	5344.8	5344.8	5344.8	5344.8
2.5°	5311.3	5326.5	5320.4	5308.2	5308.2	5299.1	5308.2	5314.3	5323.5	5329.5
5°	5241.2	5253.4	5250.4	5241.2	5244.3	5235.1	5241.2	5250.4	5256.5	5259.5
7.5°	5180.3	5192.5	5186.4	5171.2	5171.2	5162.0	5165.1	5174.2	5183.4	5186.4
10°	5165.1	5177.3	5159.0	5134.6	5125.5	5113.3	5116.4	5125.5	5143.8	5152.9
12.5°	5171.2	5180.3	5162.0	5125.5	5116.4	5104.2	5104.2	5113.3	5137.7	5149.9
15°	5189.5	5198.6	5171.2	5131.6	5122.5	5113.3	5110.3	5122.5	5149.9	5171.2
17.5°	5223.0	5232.1	5189.5	5134.6	5122.5	5125.5	5122.5	5131.6	5174.2	5213.8
20°	5253.4	5259.5	5201.6	5134.6	5122.5	5125.5	5122.5	5140.7	5195.5	5250.4
22.5°	5262.5	5268.6	5213.8	5156.0	5146.8	5149.9	5146.8	5165.1	5216.9	5271.7
25°	5265.6	5274.7	5232.1	5186.4	5201.6	5207.7	5201.6	5204.7	5244.3	5293.0
27.5°	5311.3	5323.5	5283.9	5244.3	5253.4	5250.4	5259.5	5268.6	5299.1	5347.8
30°	5405.7	5414.8	5381.3	5341.7	5335.6	5314.3	5341.7	5372.2	5405.7	5448.3
32.5°	5561.0	5579.3	5536.6	5494.0	5466.6	5454.4	5475.7	5527.5	5573.2	5618.9
35°	5819.9	5832.0	5792.5	5713.3	5664.5	5664.5	5682.8	5749.8	5822.9	5880.8
37.5°	6185.3	6200.5	6130.5	6036.1	5963.0	5963.0	5987.4	6057.4	6167.0	6249.3
40°	6630.0	6651.3	6563.0	6465.5	6395.5	6383.3	6413.7	6492.9	6596.5	6700.0
42.5°	7166.0	7190.3	7074.6	6989.3	6934.5	6934.5	6949.7	7022.8	7117.2	7245.1
45°	7851.2	7893.8	7735.5	7650.2	7598.4	7610.6	7619.7	7683.7	7769.0	7915.1
47.5°	8667.4	8710.0	8542.5	8454.2	8445.0	8502.9	8466.4	8512.0	8557.7	8725.2
50°	9593.2	9666.3	9550.5	9544.4	9562.7	9669.3	9584.0	9608.4	9556.6	9663.2
52.5°	10726.1	10832.7	10811.4	10847.9	11051.9	11271.2	11076.3	10991.0	10796.1	10829.6
55°	12099.6	12261.0	12291.4	12510.7	12973.6	13421.3	13007.1	12663.0	12248.8	12172.7
57.5°	13661.9	13789.8	13936.0	14383.7	15248.6	16043.4	15248.6	14487.2	13835.5	13680.2
60°	15343.0	15501.4	15641.4	16302.3	17587.5	18705.2	17563.1	16354.1	15492.2	15282.1
62.5°	17148.9	17353.0	17450.4	18184.4	19682.8	21016.7	19704.1	18239.2	17282.9	17057.6
65°	18881.8	19049.3	19158.9	19941.6	21373.0	22709.9	21470.4	20026.9	19043.2	18747.8
67.5°	19688.9	19780.2	20048.2	20934.4	22445.0	23970.8	22700.8	21028.9	19929.4	19411.7
70°	18507.2	18321.4	18967.1	20386.3	22572.9	24744.3	22865.3	20343.6	18997.5	18157.0
72.5°	14301.4	13981.7	15102.4	17529.6	21111.1	24250.9	21257.3	17666.7	15799.8	14094.4
75°	7781.1	7418.7	8965.8	12035.6	16835.3	21019.7	17222.0	12379.8	9983.0	7723.3
77.5°	2195.8	2058.7	3307.4	5822.9	10126.1	14758.3	10515.9	5950.8	3922.5	2326.7
80°	673.0	651.7	883.2	1754.2	4300.2	7068.5	4132.7	1775.5	1123.8	709.6
82.5°	399.0	365.5	438.5	639.5	1096.4	2220.1	1065.9	667.0	536.0	359.4
85°	228.4	213.2	258.9	310.6	368.5	472.0	307.6	316.7	286.3	191.9
87.5°	94.4	85.3	100.5	97.5	85.3	109.6	82.2	97.5	115.7	76.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5344.8
5326.5
5259.5
5186.4
5152.9
5152.9
5174.2
5213.8
5253.4
5271.7
5290.0
5335.6
5439.2
5600.6
5859.5
6218.8
6666.5
7236.0
7909.0
8676.5
9599.3
10716.9
12053.9
13570.5
15099.4
16874.9
18601.6
19417.8
18358.0
14517.7
8225.8
2585.6
749.2
389.8
201.0
70.0
0.0

OF REPORT)