

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: P943240

Luminaire Tested: **GALN-SB7C-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943240
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-SB7C-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 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: 51531 lumens
Efficiency: N/A
Efficacy: 147.0 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

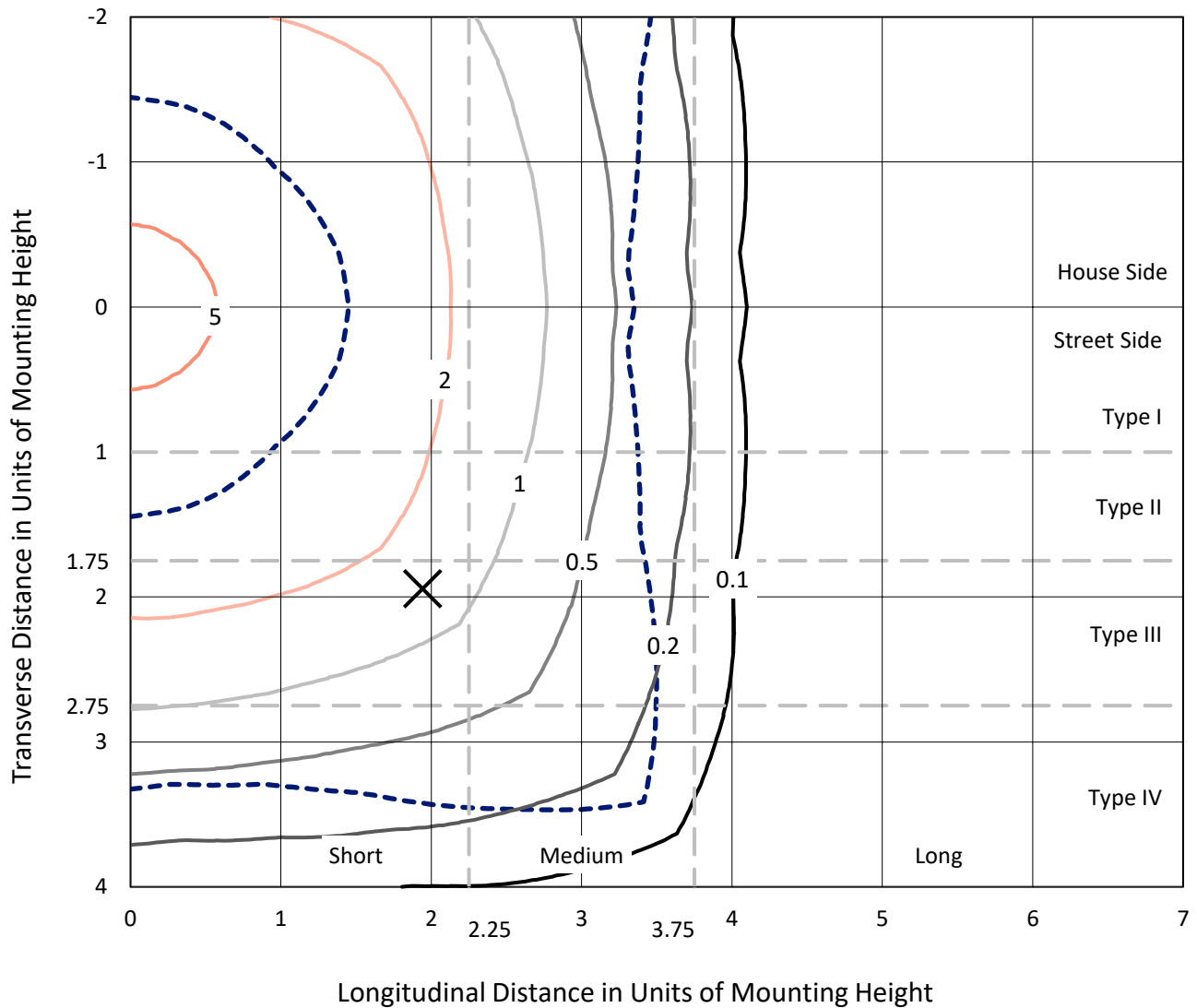
Input Watts (W): 350.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

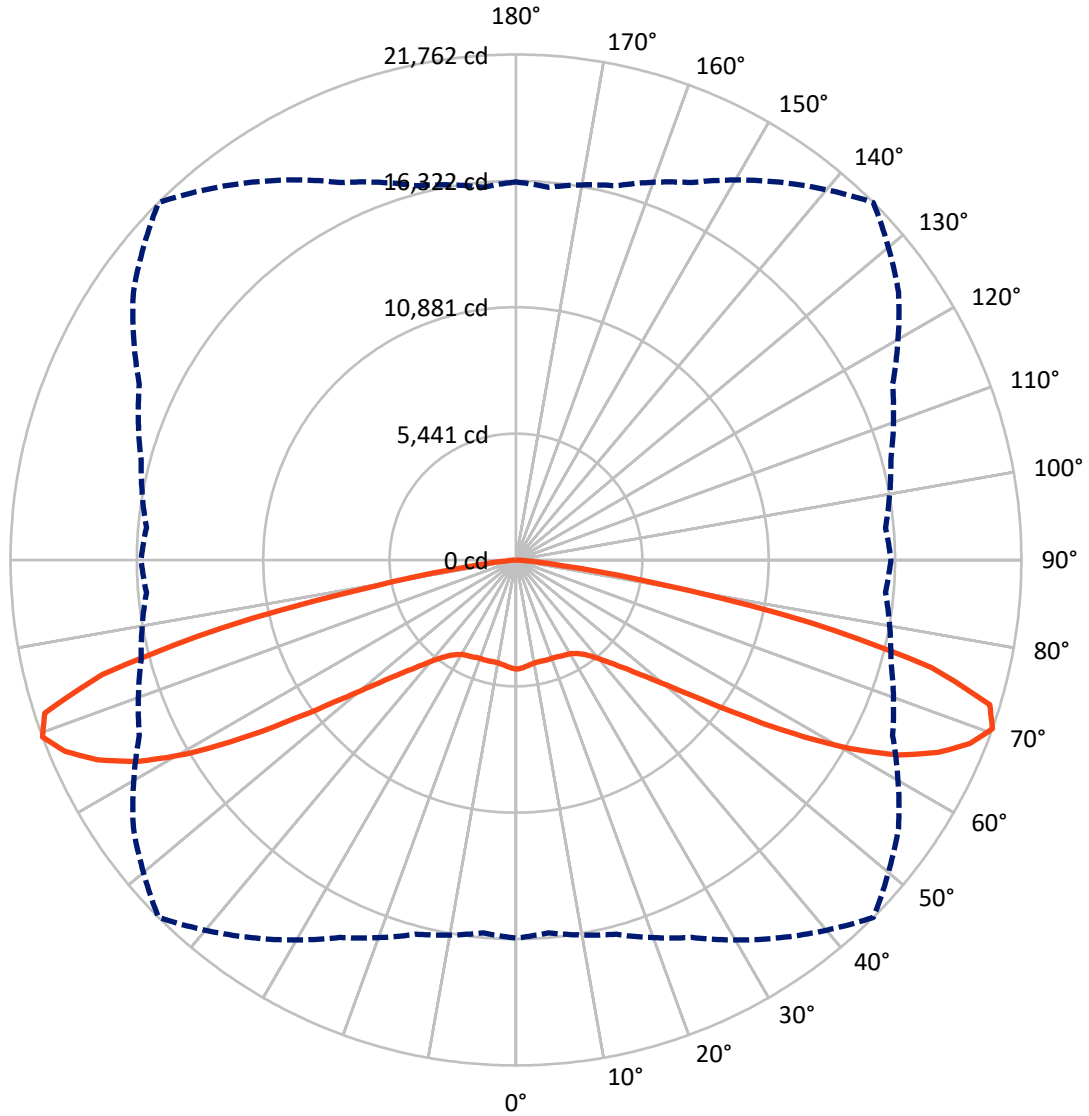
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	25765.5	0.0	25765.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25765.5	0.0	25765.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	51531.0	0.0	51531.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	0.8
10°-20°	1283.9	2.5
20°-30°	2136.7	4.1
30°-40°	3231.3	6.3
40°-50°	5369.6	10.4
50°-60°	10132.3	19.7
60°-70°	17108.8	33.2
70°-80°	11242.2	21.8
80°-90°	589.0	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°	51531.0	100.0
0°-180°	51531.0	100.0

Coefficient of Utilization



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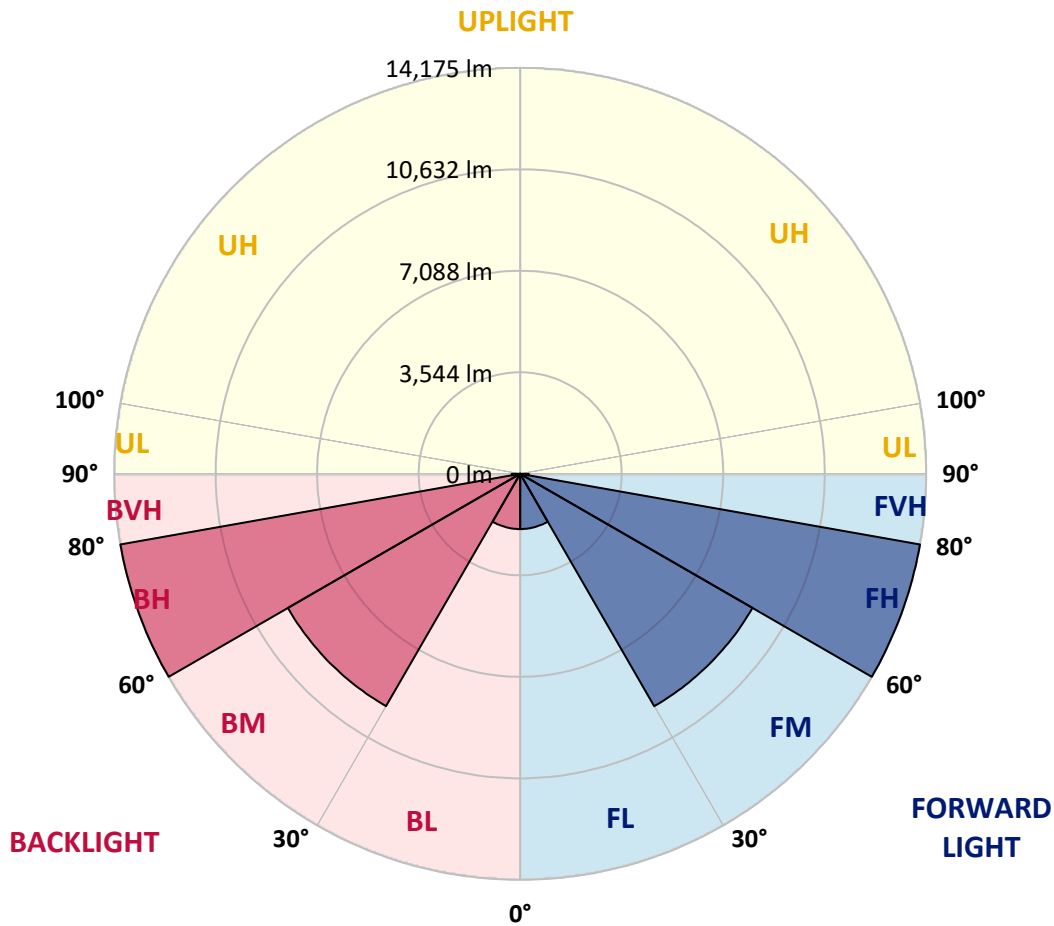
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1928.9	3.7			
FM (30°-60°)	9366.6	18.2			
FH (60°-80°)	14175.5	27.5			G5
FVH (80°-90°)	294.5	0.6			G3/500
BL (0°-30°)	1928.9	3.7	B3/2500		
BM (30°-60°)	9366.6	18.2	B5		
BH (60°-80°)	14175.5	27.5	B5		G5
BVH (80°-90°)	294.5	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°	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7	4700.7
2.5°	4671.2	4684.6	4679.2	4668.5	4668.5	4660.5	4668.5	4673.9	4681.9	4687.3
5°	4609.6	4620.3	4617.6	4609.6	4612.3	4604.2	4609.6	4617.6	4623.0	4625.7
7.5°	4556.0	4566.7	4561.4	4548.0	4548.0	4540.0	4542.6	4550.7	4558.7	4561.4
10°	4542.6	4553.4	4537.3	4515.9	4507.8	4497.1	4499.8	4507.8	4523.9	4531.9
12.5°	4548.0	4556.0	4540.0	4507.8	4499.8	4489.1	4489.1	4497.1	4518.5	4529.2
15°	4564.1	4572.1	4548.0	4513.2	4505.1	4497.1	4494.4	4505.1	4529.2	4548.0
17.5°	4593.5	4601.6	4564.1	4515.9	4505.1	4507.8	4505.1	4513.2	4550.7	4585.5
20°	4620.3	4625.7	4574.8	4515.9	4505.1	4507.8	4505.1	4521.2	4569.4	4617.6
22.5°	4628.3	4633.7	4585.5	4534.6	4526.6	4529.2	4526.6	4542.6	4588.2	4636.4
25°	4631.0	4639.1	4601.6	4561.4	4574.8	4580.1	4574.8	4577.5	4612.3	4655.1
27.5°	4671.2	4681.9	4647.1	4612.3	4620.3	4617.6	4625.7	4633.7	4660.5	4703.3
30°	4754.2	4762.3	4732.8	4698.0	4692.6	4673.9	4698.0	4724.8	4754.2	4791.7
32.5°	4890.8	4906.9	4869.4	4831.9	4807.8	4797.1	4815.8	4861.4	4901.5	4941.7
35°	5118.5	5129.2	5094.4	5024.8	4981.9	4981.9	4998.0	5056.9	5121.2	5172.1
37.5°	5439.9	5453.3	5391.7	5308.7	5244.4	5244.4	5265.8	5327.4	5423.8	5496.2
40°	5831.0	5849.7	5772.0	5686.3	5624.7	5614.0	5640.8	5710.4	5801.5	5892.6
42.5°	6302.4	6323.8	6222.0	6147.0	6098.8	6098.8	6112.2	6176.5	6259.5	6372.0
45°	6905.0	6942.5	6803.2	6728.2	6682.7	6693.4	6701.5	6757.7	6832.7	6961.3
47.5°	7622.8	7660.3	7513.0	7435.4	7427.3	7478.2	7446.1	7486.2	7526.4	7673.7
50°	8437.1	8501.4	8399.6	8394.2	8410.3	8504.1	8429.1	8450.5	8404.9	8498.7
52.5°	9433.5	9527.2	9508.5	9540.6	9720.1	9912.9	9741.5	9666.5	9495.1	9524.5
55°	10641.4	10783.4	10810.2	11003.0	11410.2	11803.9	11439.6	11137.0	10772.7	10705.7
57.5°	12015.5	12128.0	12256.5	12650.3	13411.0	14110.0	13411.0	12741.3	12168.2	12031.6
60°	13494.0	13633.3	13756.5	14337.7	15468.0	16451.0	15446.6	14383.2	13625.2	13440.4
62.5°	15082.3	15261.8	15347.5	15993.0	17310.8	18483.9	17329.5	16041.2	15200.2	15002.0
65°	16606.3	16753.7	16850.1	17538.4	18797.3	19973.1	18883.0	17613.4	16748.3	16488.5
67.5°	17316.1	17396.5	17632.2	18411.6	19740.1	21082.0	19965.1	18494.6	17527.7	17072.4
70°	16276.9	16113.5	16681.3	17929.5	19852.6	21762.3	20109.7	17892.0	16708.1	15968.9
72.5°	12578.0	12296.7	13282.4	15417.1	18567.0	21328.4	18695.5	15537.6	13895.8	12395.8
75°	6843.4	6524.7	7885.3	10585.2	14806.4	18486.6	15146.6	10887.9	8779.9	6792.5
77.5°	1931.2	1810.6	2908.8	5121.2	8905.8	12979.7	9248.7	5233.7	3449.8	2046.3
80°	591.9	573.2	776.7	1542.8	3782.0	6216.7	3634.6	1561.5	988.3	624.1
82.5°	350.9	321.4	385.7	562.5	964.2	1952.6	937.5	586.6	471.4	316.1
85°	200.9	187.5	227.7	273.2	324.1	415.2	270.5	278.6	251.8	168.7
87.5°	83.0	75.0	88.4	85.7	75.0	96.4	72.3	85.7	101.8	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4700.7
4684.6
4625.7
4561.4
4531.9
4531.9
4550.7
4585.5
4620.3
4636.4
4652.5
4692.6
4783.7
4925.7
5153.3
5469.4
5863.1
6364.0
6955.9
7630.9
8442.4
9425.4
10601.3
11935.1
13279.7
14841.2
16359.9
17077.7
16145.6
12768.1
7234.5
2274.0
658.9
342.8
176.8
61.6
0.0

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