

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: P953987

Luminaire Tested: **GALN-SB7B-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953987
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7B-850-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40139 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

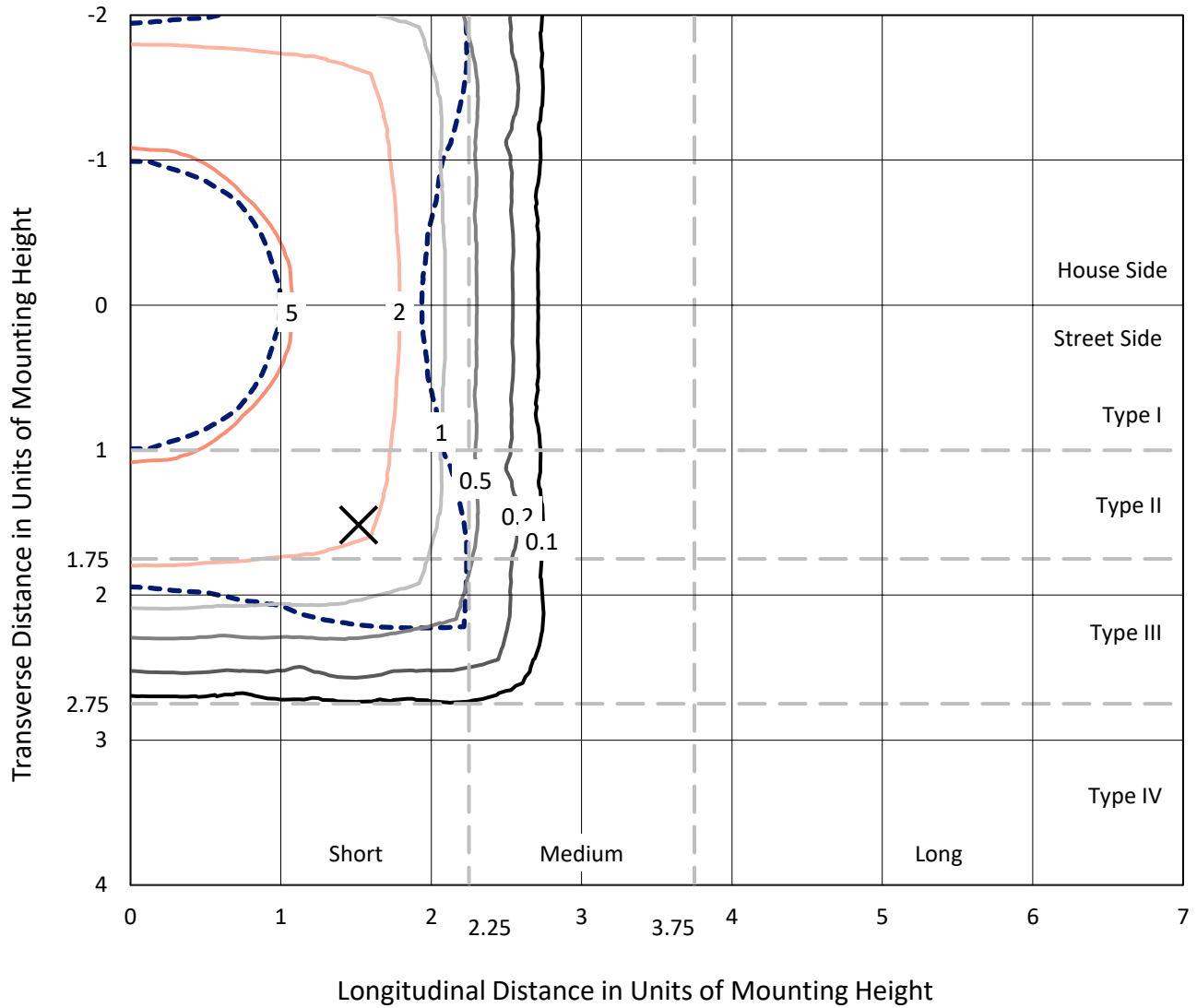
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

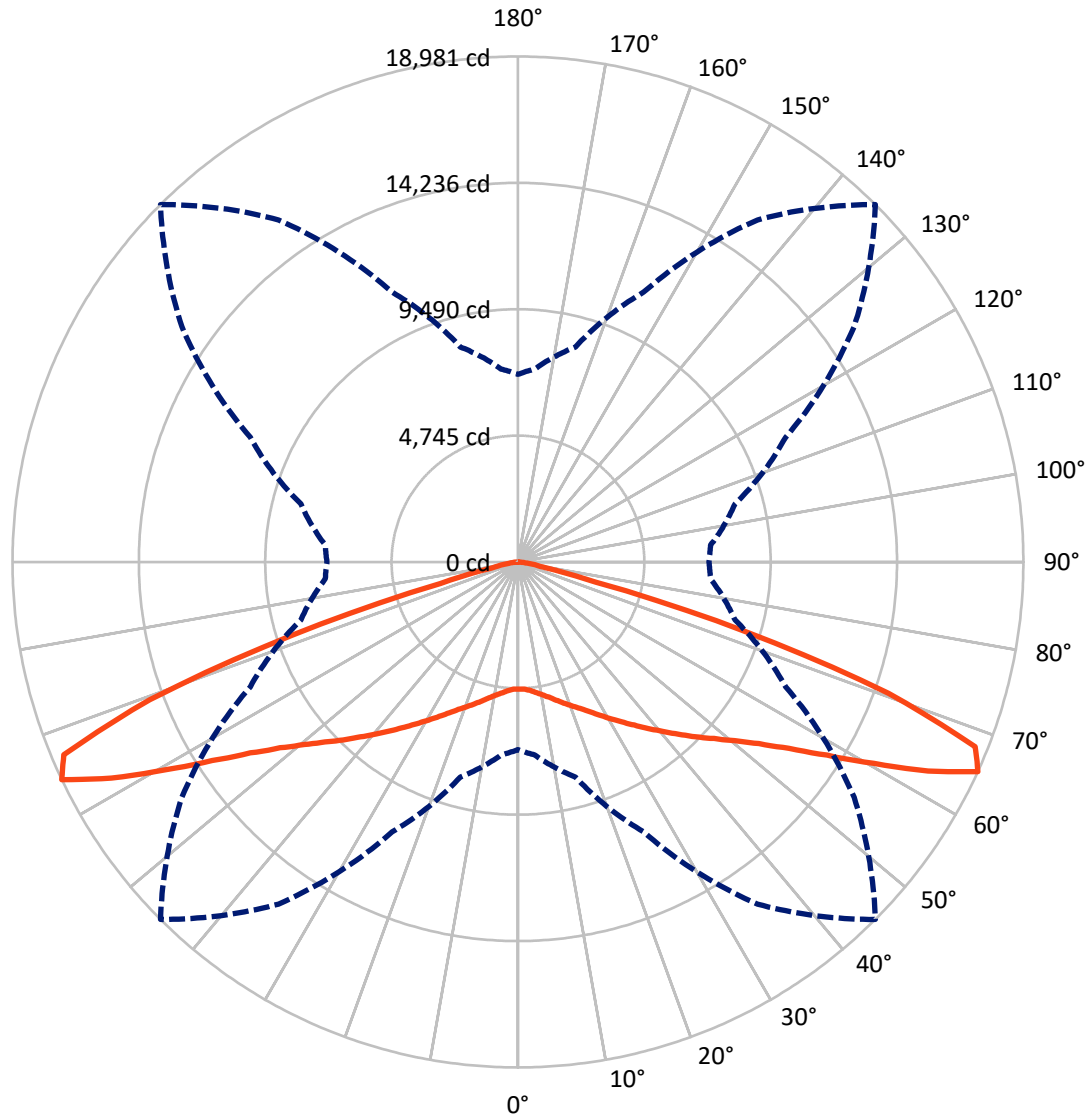
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20069.5	0.0	20069.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20069.5	0.0	20069.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40139.0	0.0	40139.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.4	1.2
10°-20°	1538.3	3.8
20°-30°	2904.6	7.2
30°-40°	4756.1	11.8
40°-50°	7374.4	18.4
50°-60°	10893.5	27.1
60°-70°	10369.6	25.8
70°-80°	1673.3	4.2
80°-90°	157.7	0.4
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°	40139.0	100.0
0°-180°	40139.0	100.0

Coefficient of Utilization



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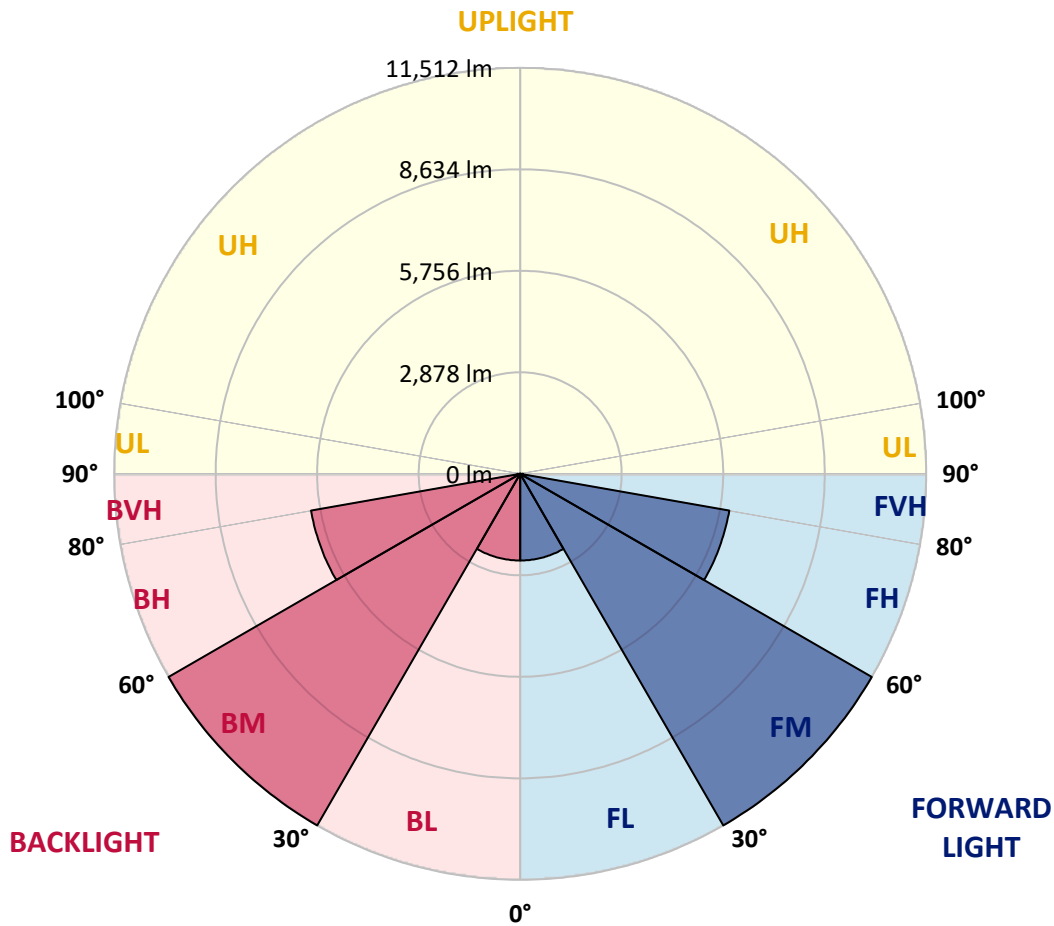
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2457.2	6.1			
FM (30°-60°)	11512.0	28.7			
FH (60°-80°)	6021.5	15.0			G3/7500
FVH (80°-90°)	78.9	0.2			G1/100
BL (0°-30°)	2457.2	6.1	B3/2500		
BM (30°-60°)	11512.0	28.7	B5		
BH (60°-80°)	6021.5	15.0	B5		G3/7500
BVH (80°-90°)	78.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9	4776.9
2.5°	4809.2	4793.1	4805.1	4795.1	4787.0	4779.0	4783.0	4797.1	4803.1	4805.1
5°	4873.6	4859.5	4865.6	4865.6	4851.5	4847.4	4849.4	4859.5	4871.6	4871.6
7.5°	4978.3	4964.2	4978.3	4970.3	4958.2	4954.2	4952.2	4960.2	4978.3	4978.3
10°	5105.2	5089.1	5097.2	5093.1	5079.0	5073.0	5071.0	5083.1	5099.2	5097.2
12.5°	5244.2	5226.0	5236.1	5224.0	5220.0	5214.0	5214.0	5211.9	5222.0	5214.0
15°	5399.2	5387.2	5391.2	5383.1	5389.2	5385.1	5369.0	5361.0	5365.0	5352.9
17.5°	5582.5	5554.3	5568.4	5564.4	5564.4	5572.4	5546.2	5536.2	5544.2	5532.2
20°	5794.0	5765.8	5771.8	5763.7	5753.7	5761.7	5729.5	5737.6	5743.6	5735.6
22.5°	6025.6	5989.3	5987.3	5991.3	5969.2	5971.2	5949.0	5969.2	5981.2	5959.1
25°	6263.2	6224.9	6251.1	6241.0	6212.8	6218.9	6202.8	6222.9	6233.0	6204.8
27.5°	6514.9	6488.7	6512.9	6519.0	6484.7	6508.9	6484.7	6502.8	6512.9	6470.6
30°	6809.0	6782.8	6804.9	6821.0	6780.8	6819.0	6798.9	6811.0	6813.0	6762.6
32.5°	7129.2	7088.9	7145.3	7153.3	7109.0	7155.3	7129.2	7145.3	7155.3	7086.9
35°	7519.9	7469.5	7534.0	7523.9	7485.6	7523.9	7499.7	7523.9	7548.1	7465.5
37.5°	7940.8	7888.4	7956.9	7938.7	7902.5	7928.7	7914.6	7930.7	7969.0	7880.3
40°	8404.0	8339.5	8432.1	8399.9	8365.7	8361.7	8369.7	8379.8	8430.1	8331.5
42.5°	8899.4	8830.9	8969.9	8919.5	8871.2	8839.0	8865.1	8885.3	8933.6	8822.8
45°	9465.3	9386.7	9568.0	9507.6	9431.0	9364.6	9406.9	9437.1	9507.6	9374.6
47.5°	10089.6	10001.0	10194.3	10176.2	10051.3	9906.3	10003.0	10089.6	10141.9	9980.8
50°	10699.8	10631.3	10885.1	10907.2	10754.2	10550.8	10685.7	10816.6	10830.7	10619.2
52.5°	11271.7	11203.3	11571.8	11710.8	11573.8	11332.1	11475.1	11608.1	11501.3	11227.4
55°	11728.9	11672.5	12141.7	12500.2	12546.5	12347.1	12431.7	12427.7	12077.3	11656.4
57.5°	11839.6	11831.6	12423.7	13182.9	13666.2	13690.4	13523.3	13096.3	12341.1	11775.2
60°	11336.2	11386.5	12200.1	13539.4	14828.3	15364.0	14641.0	13422.6	12041.0	11255.6
62.5°	9829.8	9962.7	10943.5	13104.4	15766.7	17289.2	15537.1	12927.1	10808.5	9783.5
65°	7044.6	7276.2	8359.6	11183.1	15682.1	18980.9	15408.3	11092.5	8440.2	7258.1
67.5°	3196.0	3431.7	4352.0	7656.8	13632.0	18521.7	13599.8	7737.4	4569.5	3443.7
70°	1158.0	1198.3	1494.3	3065.1	8712.1	14757.8	9084.6	3087.3	1589.0	1276.8
72.5°	700.8	706.9	769.3	1097.6	3026.9	8959.8	3155.8	1133.8	785.4	696.8
75°	445.1	441.0	547.8	670.6	1073.4	3022.8	1125.8	670.6	545.8	497.4
77.5°	320.2	330.3	392.7	501.5	676.7	1025.1	664.6	479.3	392.7	322.2
80°	239.7	245.7	286.0	390.7	475.3	638.4	422.9	354.4	296.0	201.4
82.5°	173.2	173.2	187.3	284.0	290.0	344.4	229.6	249.7	195.3	143.0
85°	102.7	100.7	116.8	169.2	151.0	126.9	104.7	153.1	122.8	88.6
87.5°	36.2	38.3	36.2	48.3	40.3	34.2	32.2	42.3	34.2	30.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4776.9
4805.1
4871.6
4972.3
5093.1
5218.0
5354.9
5542.2
5753.7
5981.2
6237.0
6502.8
6792.8
7133.2
7515.8
7934.7
8363.7
8881.2
9443.1
10035.2
10645.4
11235.5
11670.5
11739.0
11163.0
9723.1
7171.5
3393.4
1260.7
708.9
501.5
328.3
207.4
143.0
86.6
28.2
0.0

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