

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: P955334

Luminaire Tested: **GALN-SB8B-827-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-827-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40772 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

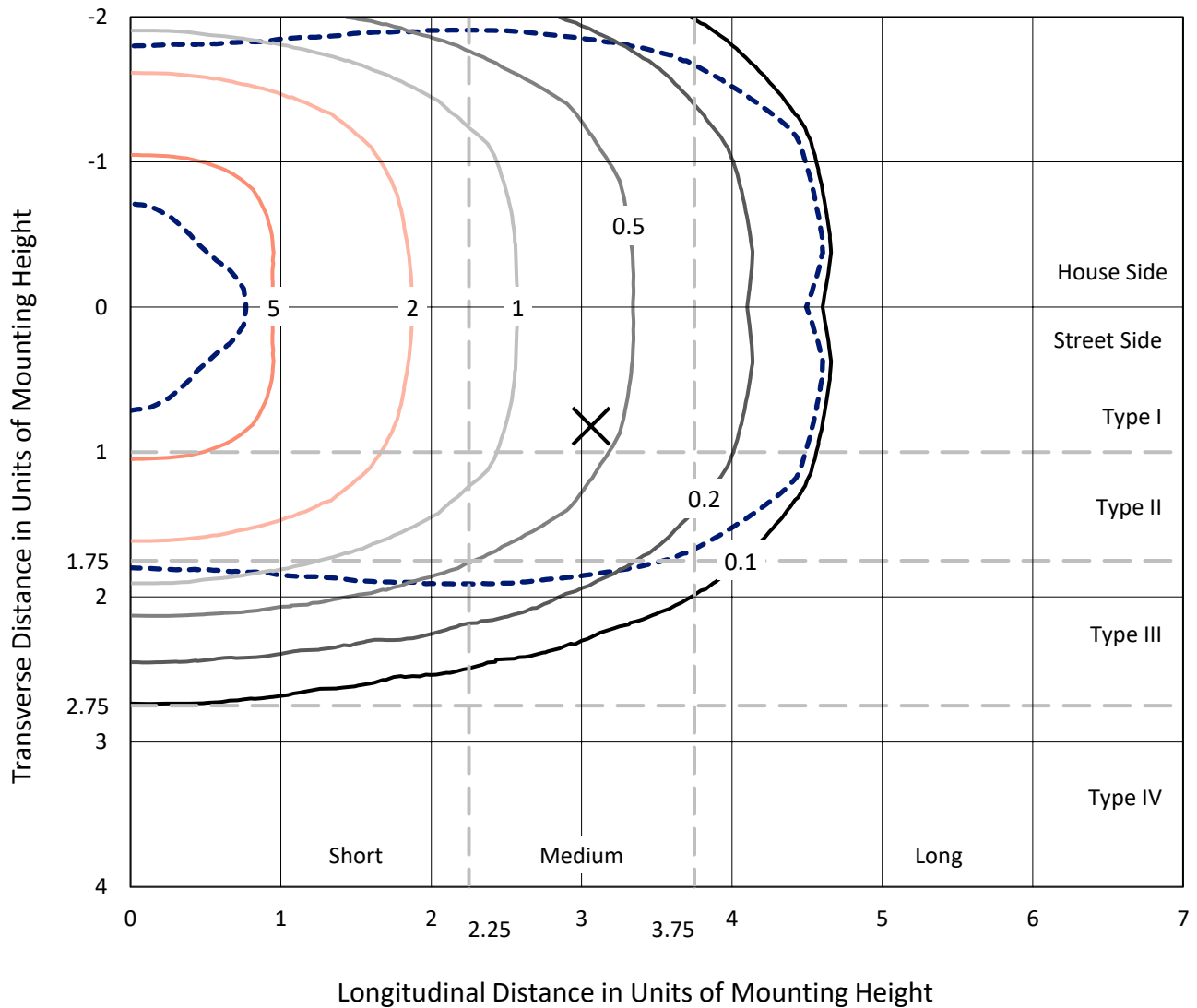
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

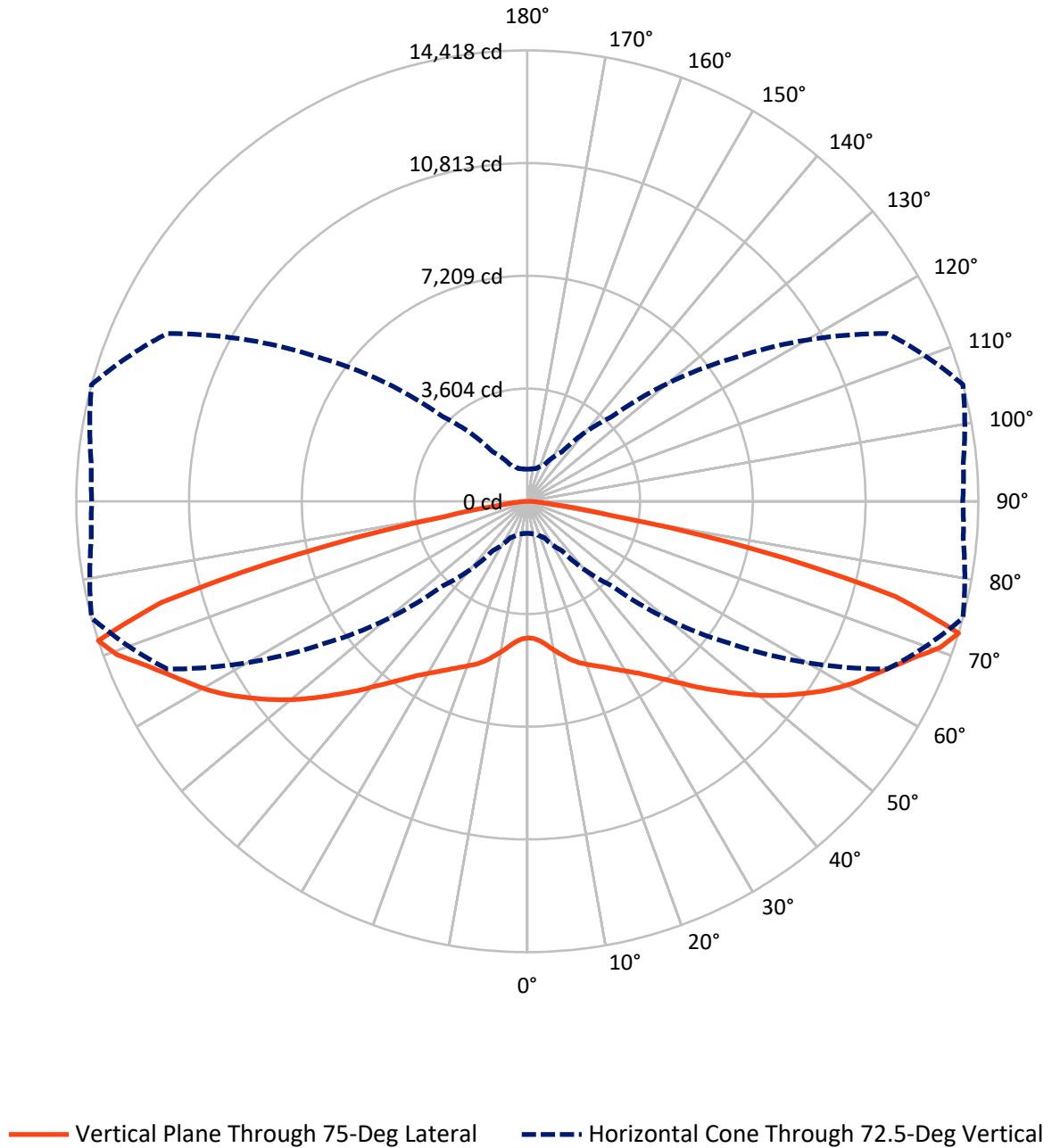
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20386.0	0.0	20386.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20386.0	0.0	20386.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40772.0	0.0	40772.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	427.8	1.0
10°-20°	1411.1	3.5
20°-30°	2726.6	6.7
30°-40°	4604.0	11.3
40°-50°	7301.4	17.9
50°-60°	9775.7	24.0
60°-70°	9303.3	22.8
70°-80°	4854.6	11.9
80°-90°	367.5	0.9
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°	40772.0	100.0
0°-180°	40772.0	100.0

Coefficient of Utilization



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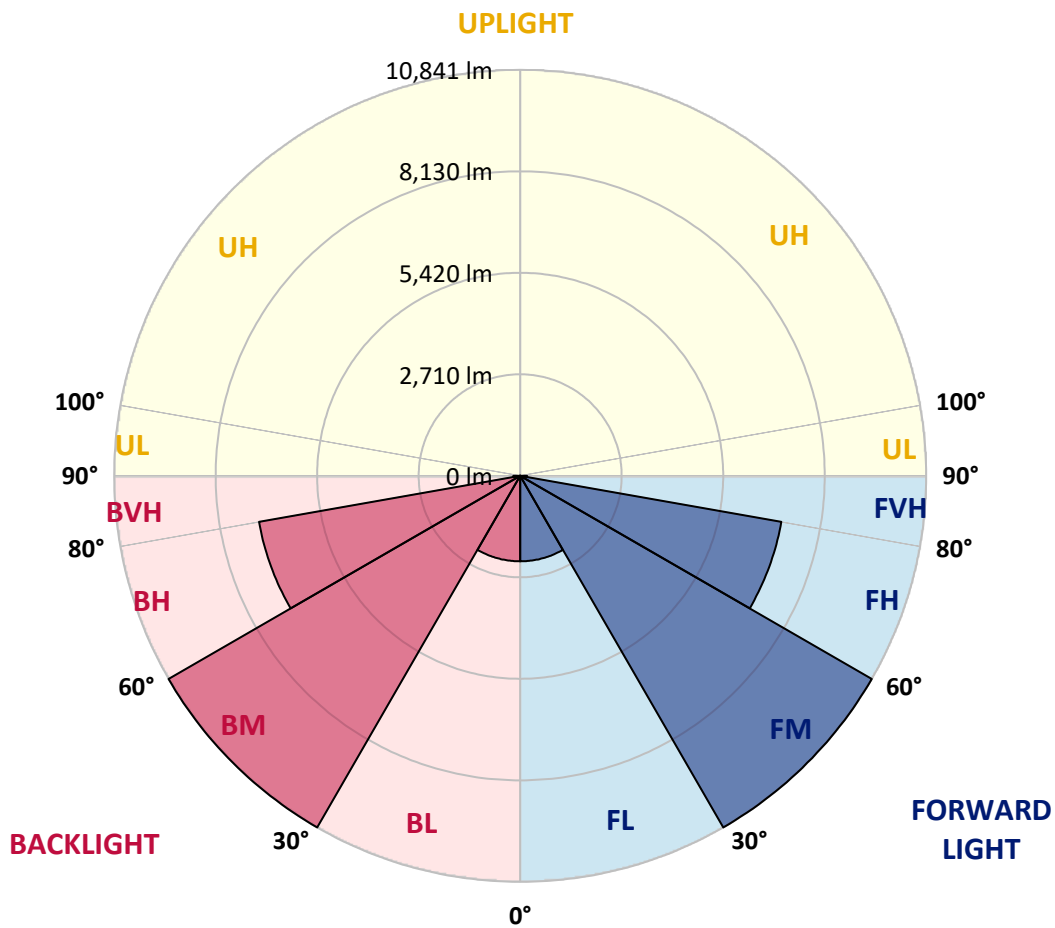
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2282.7	5.6			
FM (30°-60°)	10840.5	26.6			
FH (60°-80°)	7079.0	17.4			G3/7500
FVH (80°-90°)	183.7	0.5			G2/225
BL (0°-30°)	2282.7	5.6	B3/2500		
BM (30°-60°)	10840.5	26.6	B5		
BH (60°-80°)	7079.0	17.4	B5		G5
BVH (80°-90°)	183.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4367.4	4367.4	4367.4	4367.4	4367.4	4367.4	4367.4	4367.4	4367.4	4367.4
2.5°	4367.4	4363.2	4367.4	4371.6	4369.5	4369.5	4379.9	4386.1	4398.6	4396.6
5°	4338.3	4336.2	4352.8	4371.6	4386.1	4411.1	4442.4	4465.3	4494.4	4500.6
7.5°	4323.7	4317.5	4346.6	4379.9	4425.7	4488.1	4548.5	4611.0	4660.9	4677.6
10°	4334.1	4336.2	4375.7	4438.2	4511.0	4598.5	4683.8	4790.0	4860.8	4877.4
12.5°	4382.0	4377.8	4444.4	4544.4	4644.3	4754.6	4854.5	4971.1	5048.1	5087.7
15°	4469.4	4461.1	4554.8	4702.6	4848.3	4977.3	5058.5	5168.9	5258.4	5308.3
17.5°	4573.5	4577.7	4700.5	4892.0	5083.5	5229.2	5306.3	5362.5	5431.2	5474.9
20°	4756.7	4765.0	4902.4	5129.3	5347.9	5514.4	5576.9	5556.1	5574.8	5608.1
22.5°	5002.3	5006.5	5160.5	5406.2	5635.2	5818.4	5860.0	5774.6	5722.6	5745.5
25°	5287.5	5314.6	5468.6	5720.5	5955.7	6130.6	6149.3	6020.3	5891.2	5897.5
27.5°	5635.2	5660.1	5816.3	6066.1	6305.5	6457.4	6455.4	6282.6	6093.1	6045.3
30°	6012.0	6039.0	6199.3	6457.4	6680.2	6813.4	6784.3	6578.2	6307.6	6218.0
32.5°	6459.5	6476.2	6638.5	6896.7	7102.8	7208.9	7148.6	6894.6	6557.4	6455.4
35°	7000.8	7025.7	7146.5	7390.0	7571.2	7658.6	7556.6	7256.8	6877.9	6763.5
37.5°	7619.0	7602.4	7739.8	7956.3	8106.1	8160.3	8020.8	7664.8	7244.3	7109.0
40°	8264.4	8256.0	8405.9	8614.1	8695.3	8728.6	8522.5	8133.2	7666.9	7521.2
42.5°	8849.3	8843.1	9045.0	9276.1	9373.9	9336.4	9076.2	8630.7	8156.1	7989.6
45°	9317.7	9309.4	9557.1	9881.8	10073.4	10010.9	9661.2	9180.3	8651.6	8478.8
47.5°	9677.8	9682.0	9948.5	10350.2	10685.4	10708.3	10258.6	9740.3	9197.0	9001.3
50°	9938.0	9950.5	10235.7	10681.2	11139.2	11341.1	10868.6	10314.8	9761.1	9540.4
52.5°	10002.6	10025.5	10369.0	10891.5	11430.6	11815.7	11488.9	10866.5	10296.1	10085.8
55°	9659.1	9704.9	10140.0	10874.8	11609.7	12128.0	12034.3	11426.5	10835.3	10618.8
57.5°	8870.1	8934.7	9442.6	10402.3	11570.1	12342.4	12456.9	11963.5	11374.4	11166.3
60°	7764.7	7841.8	8328.9	9376.0	11012.2	12421.5	12754.6	12486.0	11869.9	11667.9
62.5°	6097.3	6197.2	6780.1	8008.3	9834.0	12053.1	13008.6	12958.6	12315.3	12063.5
65°	3911.5	4017.7	4631.8	6082.7	8262.3	10924.8	13087.7	13418.7	12785.8	12434.0
67.5°	2358.6	2406.4	2710.4	3686.7	6039.0	9224.0	12417.4	13928.7	13335.4	12898.2
70°	1509.2	1536.3	1717.4	2165.0	3414.0	6730.1	10756.2	14024.4	14001.5	13374.9
72.5°	1024.2	1032.5	1080.4	1282.3	1931.8	3824.1	7933.4	12696.3	14417.9	13989.0
75°	749.4	795.2	872.2	907.6	1097.1	1911.0	4546.4	8920.1	12150.9	12338.2
77.5°	557.9	560.0	666.1	707.8	782.7	1018.0	1923.5	4979.4	7544.1	7920.9
80°	472.5	447.6	445.5	570.4	589.1	634.9	859.7	1719.5	2702.0	1638.3
82.5°	393.4	366.4	331.0	445.5	401.8	389.3	372.6	699.5	859.7	422.6
85°	274.8	262.3	249.8	291.4	229.0	195.7	179.0	326.8	362.2	179.0
87.5°	118.7	122.8	124.9	129.1	95.8	68.7	68.7	91.6	91.6	70.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4367.4
4394.5
4500.6
4681.7
4894.1
5104.3
5327.1
5495.7
5633.1
5762.2
5907.9
6059.8
6228.5
6480.3
6780.1
7134.0
7569.1
8031.2
8518.3
9059.6
9607.1
10140.0
10679.1
11214.1
11711.7
12092.6
12477.7
12931.5
13370.8
13922.4
11884.4
7065.3
1238.6
360.1
158.2
52.0
0.0

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