

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: P533919

Luminaire Tested: **GALN-SA9B-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533919
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19780 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

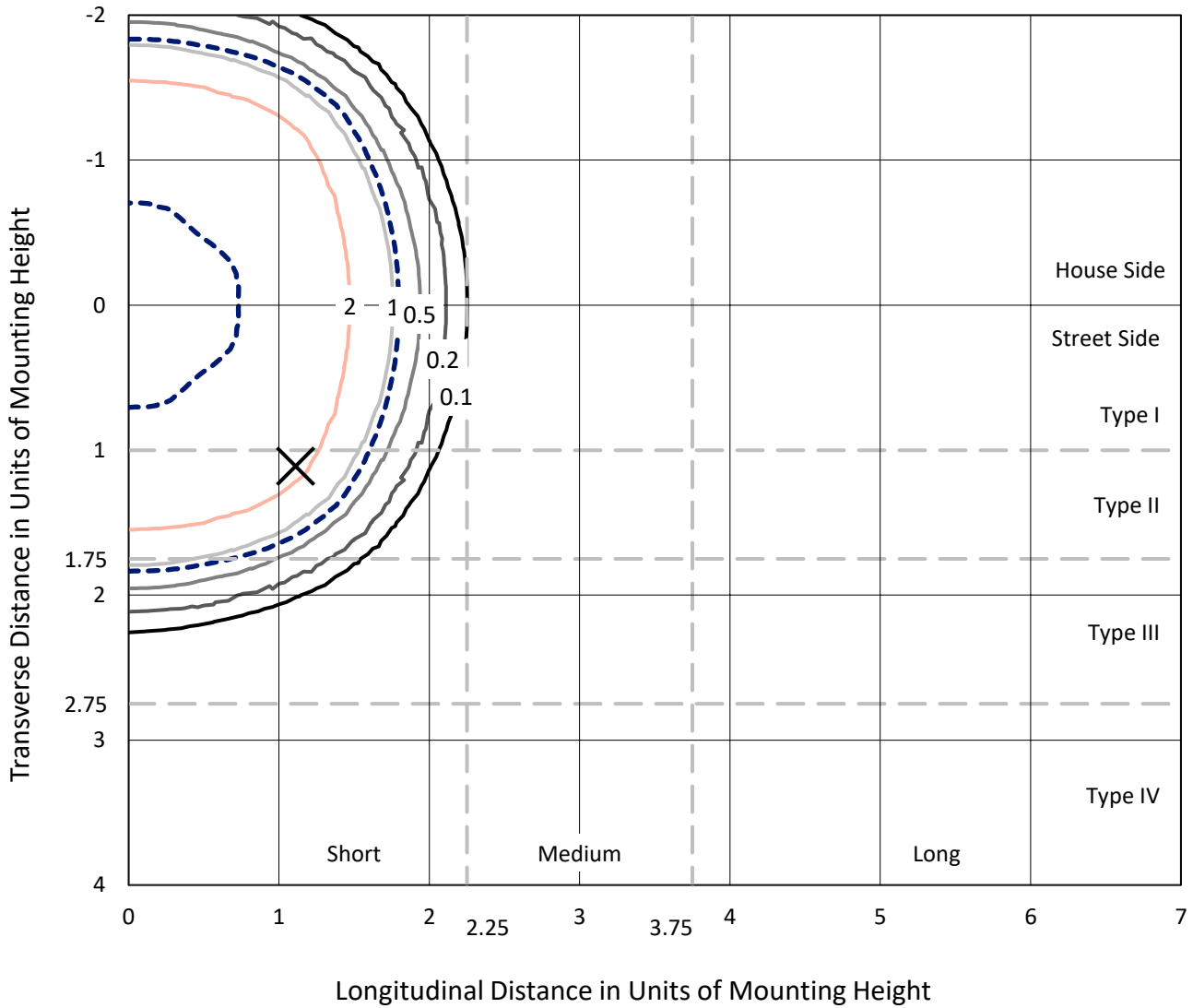
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

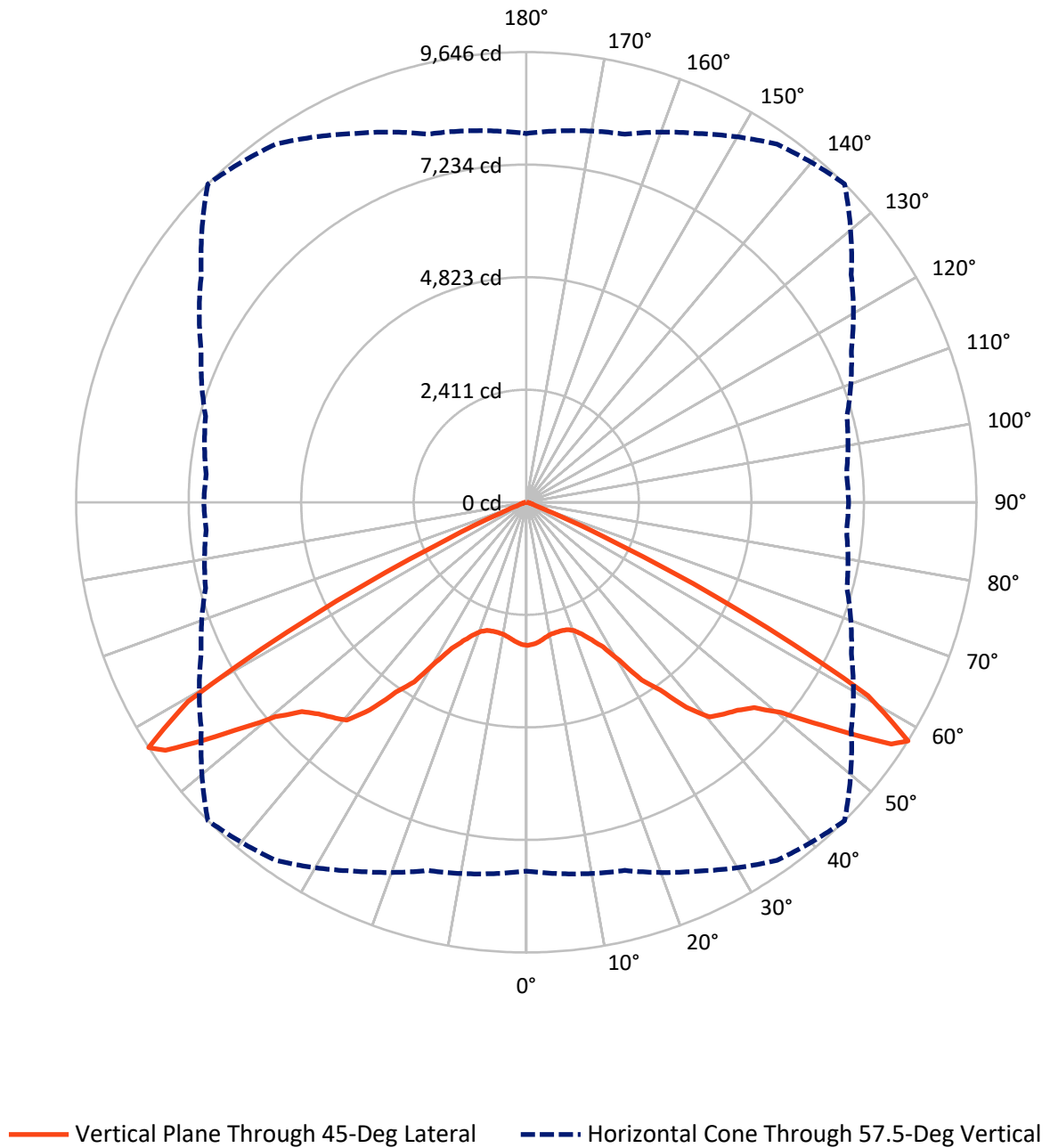
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9890.0	0.0	9890.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9890.0	0.0	9890.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19780.0	0.0	19780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.9	1.4
10°-20°	814.9	4.1
20°-30°	1504.3	7.6
30°-40°	2958.3	15.0
40°-50°	4818.3	24.4
50°-60°	6871.5	34.7
60°-70°	2379.1	12.0
70°-80°	127.6	0.6
80°-90°	24.0	0.1
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°	19780.0	100.0
0°-180°	19780.0	100.0

Coefficient of Utilization



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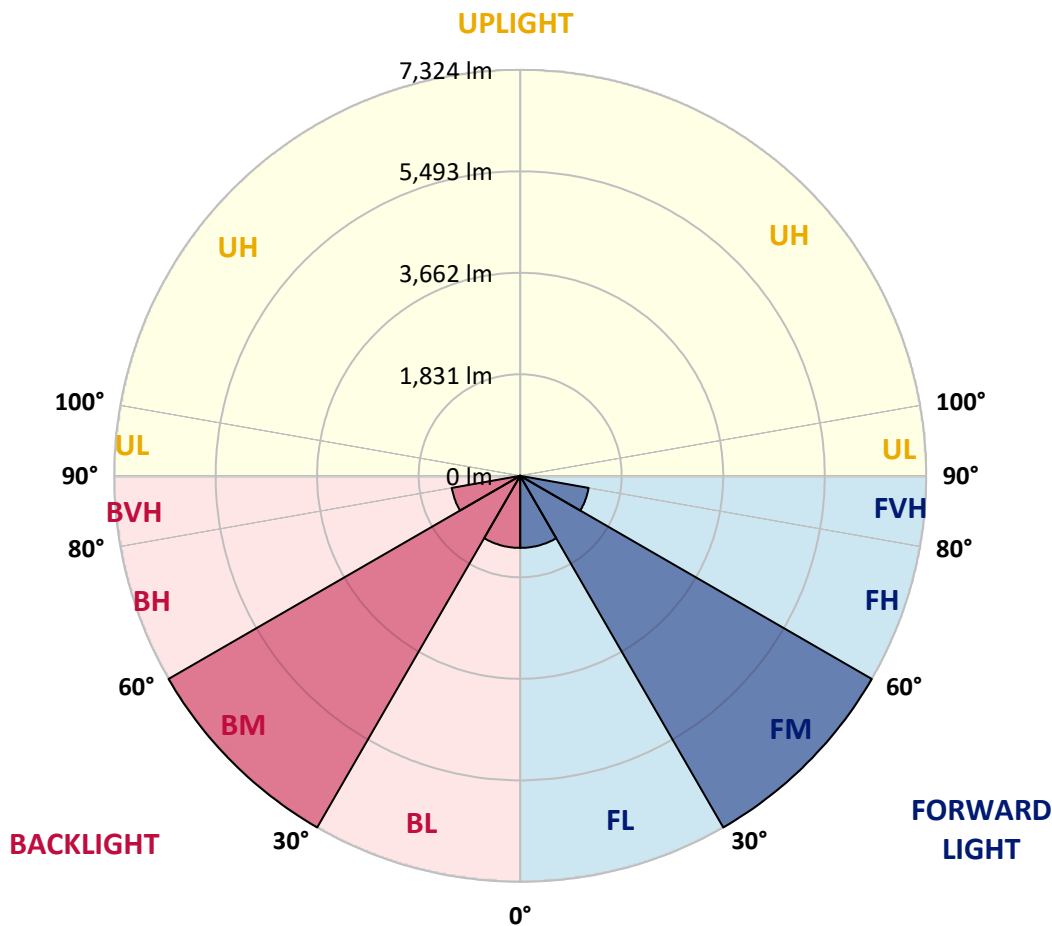
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.6	6.6			
FM (30°-60°)	7324.1	37.0			
FH (60°-80°)	1253.4	6.3			G1/1800
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1300.6	6.6	B3/2500		
BM (30°-60°)	7324.1	37.0	B4/8500		
BH (60°-80°)	1253.4	6.3	B3/2500		G1/1800
BVH (80°-90°)	12.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1
2.5°	3059.8	3076.3	3055.7	3047.5	3043.3	3043.3	3031.0	3031.0	3026.8	3031.0	3014.5
5°	3010.4	3026.8	3026.8	3022.7	2998.0	2993.9	2981.5	2973.2	2977.4	2960.9	2973.2
7.5°	2960.9	2973.2	2956.7	2952.6	2944.4	2927.9	2923.8	2886.6	2890.8	2890.8	2899.0
10°	2952.6	2948.5	2923.8	2903.1	2878.4	2874.3	2861.9	2853.6	2853.6	2849.5	2861.9
12.5°	2952.6	2932.0	2927.9	2882.5	2841.3	2857.8	2824.8	2804.2	2833.0	2841.3	2857.8
15°	2948.5	2969.1	2899.0	2878.4	2849.5	2853.6	2824.8	2804.2	2820.7	2828.9	2841.3
17.5°	2973.2	2960.9	2940.2	2899.0	2886.6	2870.1	2833.0	2816.5	2816.5	2837.2	2841.3
20°	3039.2	3006.2	2965.0	2944.4	2956.7	2936.1	2890.8	2828.9	2845.4	2861.9	2874.3
22.5°	3101.1	3076.3	3047.5	3035.1	3105.2	3072.2	2993.9	2923.8	2899.0	2927.9	2948.5
25°	3220.7	3220.7	3167.1	3183.6	3261.9	3266.0	3175.3	3051.6	3035.1	3047.5	3055.7
27.5°	3464.0	3476.3	3431.0	3447.5	3480.5	3509.3	3431.0	3327.9	3290.8	3286.6	3299.0
30°	3727.9	3752.6	3748.5	3818.6	3913.5	3930.0	3814.5	3645.4	3534.1	3513.5	3529.9
32.5°	4074.3	4086.7	4078.4	4160.9	4416.6	4536.1	4235.1	3995.9	3847.5	3884.6	3847.5
35°	4725.8	4713.5	4622.7	4639.2	4849.6	4936.2	4647.5	4494.9	4424.8	4499.0	4482.5
37.5°	5286.7	5241.3	5167.1	5274.3	5492.9	5571.2	5270.2	5002.1	4874.3	4998.0	5051.6
40°	5760.9	5645.4	5542.3	5649.6	5942.4	6049.6	5608.3	5389.8	5340.3	5431.0	5546.5
42.5°	6160.9	6086.7	5950.6	5958.8	6152.7	6202.2	5847.5	5719.7	5670.2	5814.5	5872.2
45°	6445.5	6375.3	6247.5	6239.3	6387.7	6354.7	6037.2	5950.6	5979.5	6074.3	6103.2
47.5°	6589.8	6626.9	6552.7	6573.3	6651.6	6573.3	6321.7	6321.7	6255.8	6313.5	6284.6
50°	7006.3	6890.8	6985.7	6985.7	7068.1	7076.4	6824.8	6734.1	6556.8	6457.8	6457.8
52.5°	7492.9	7501.1	7538.3	7674.3	7814.5	7934.1	7575.4	7187.7	6890.8	6763.0	6746.5
55°	7892.9	7975.4	8123.8	8379.5	8783.6	8948.6	8330.0	7637.2	7274.3	7076.4	7035.2
56°	8111.5	8033.1	8288.8	8639.3	9167.1	9381.6	8453.7	7727.9	7327.9	7105.3	7101.1
57.5°	7901.1	7987.7	8165.1	8717.7	9365.1	9645.5	8499.1	7686.7	7113.5	6886.7	6907.3
60°	6239.3	6321.7	6560.9	7179.5	8193.9	8412.5	7191.9	6338.2	5826.9	5501.1	5505.2
62.5°	3529.9	3591.8	3777.4	4350.6	4981.5	5191.8	4482.5	3913.5	3558.8	3377.4	3319.6
65°	1299.0	1274.2	1303.1	1595.9	1983.5	2160.9	1863.9	1575.3	1389.7	1323.7	1299.0
67.5°	486.6	449.5	420.6	449.5	565.0	597.9	548.5	457.7	428.9	441.2	449.5
70°	301.0	284.5	226.8	214.4	210.3	206.2	218.6	230.9	263.9	309.3	317.5
72.5°	210.3	197.9	160.8	152.6	144.3	140.2	160.8	177.3	206.2	239.2	243.3
75°	82.5	86.6	82.5	90.7	94.8	99.0	115.5	127.8	140.2	140.2	136.1
77.5°	16.5	16.5	24.7	33.0	41.2	53.6	78.4	90.7	94.8	90.7	78.4
80°	0.0	0.0	8.2	16.5	33.0	45.4	70.1	78.4	86.6	78.4	61.9
82.5°	0.0	0.0	8.2	20.6	33.0	41.2	66.0	82.5	94.8	86.6	66.0
85°	0.0	0.0	8.2	16.5	24.7	28.9	28.9	20.6	20.6	12.4	8.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)