

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: P957115

Luminaire Tested: **GALN-SB9C-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957115
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62119 lumens
Efficiency: N/A
Efficacy: 138.1 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

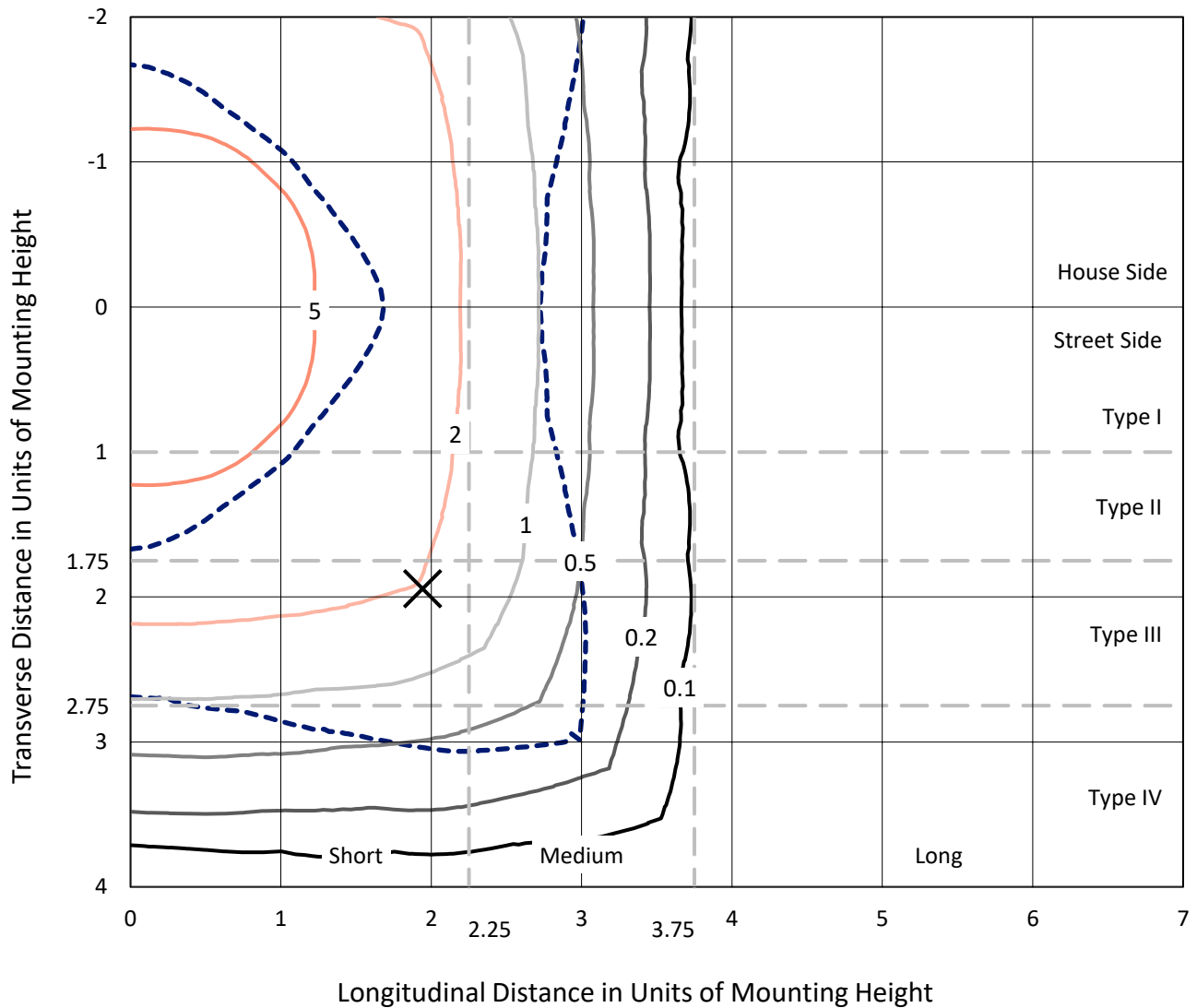
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

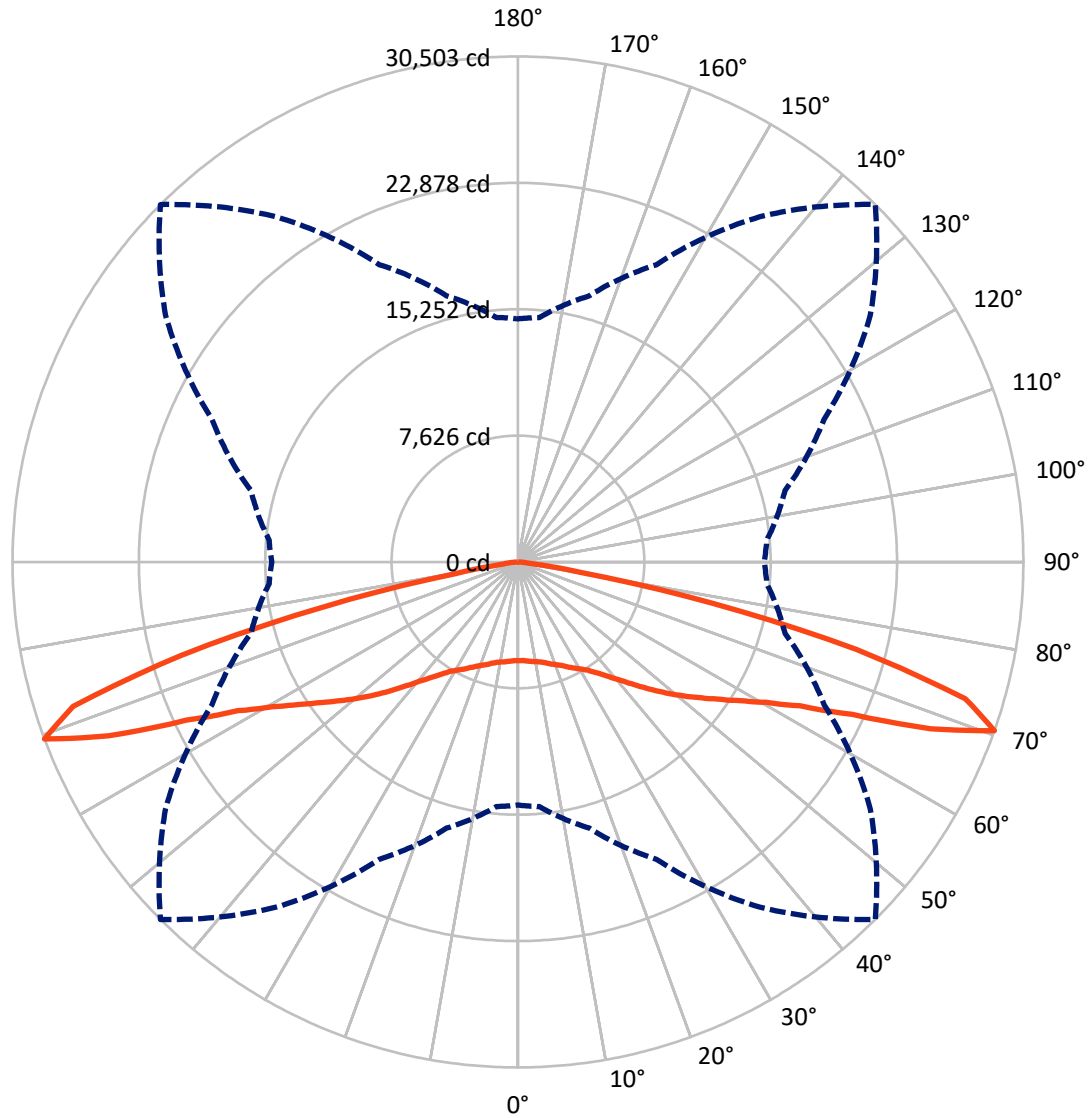
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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	31059.5	0.0	31059.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	31059.5	0.0	31059.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	62119.0	0.0	62119.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.1	0.9
10°-20°	1792.6	2.9
20°-30°	3203.5	5.2
30°-40°	5192.8	8.4
40°-50°	8458.3	13.6
50°-60°	12896.0	20.8
60°-70°	19185.1	30.9
70°-80°	10456.5	16.8
80°-90°	356.1	0.6
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°	62119.0	100.0
0°-180°	62119.0	100.0

Coefficient of Utilization



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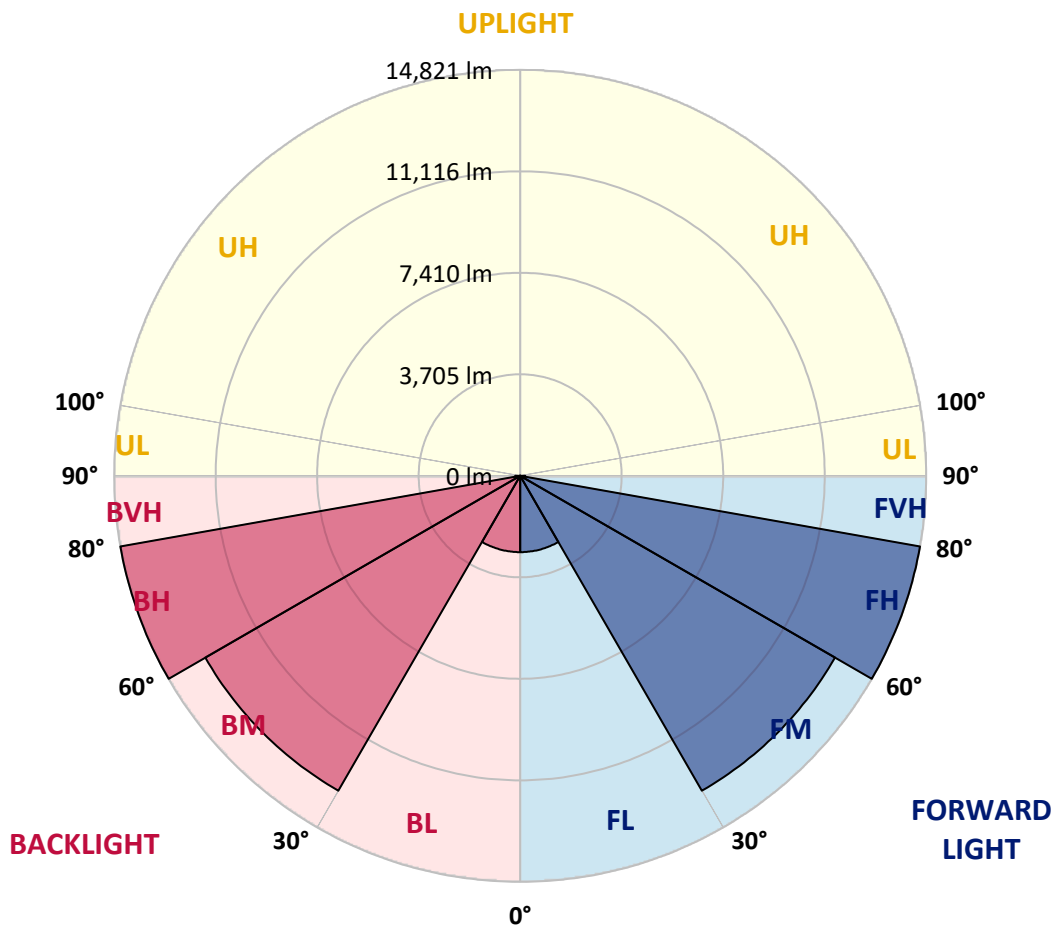
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2787.1	4.5			
FM (30°-60°)	13273.6	21.4			
FH (60°-80°)	14820.8	23.9			G5
FVH (80°-90°)	178.0	0.3			G2/225
BL (0°-30°)	2787.1	4.5	B4/5000		
BM (30°-60°)	13273.6	21.4	B5		
BH (60°-80°)	14820.8	23.9	B5		G5
BVH (80°-90°)	178.0	0.3			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 V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5950.4	5950.4	5950.4	5950.4	5950.4	5950.4	5950.4	5950.4	5950.4	5950.4
2.5°	5978.4	5984.7	5972.2	5966.0	5959.7	5950.4	5953.5	5969.1	5981.5	5978.4
5°	6028.3	6034.6	6025.2	6022.1	6009.6	6006.5	6006.5	6022.1	6031.4	6025.2
7.5°	6084.5	6093.8	6078.2	6075.1	6068.9	6062.6	6059.5	6075.1	6084.5	6084.5
10°	6137.5	6146.8	6134.4	6125.0	6118.8	6118.8	6112.5	6125.0	6140.6	6137.5
12.5°	6193.6	6199.8	6187.4	6181.1	6181.1	6190.5	6181.1	6187.4	6199.8	6193.6
15°	6262.2	6265.3	6262.2	6271.6	6287.2	6318.4	6290.3	6284.1	6290.3	6274.7
17.5°	6355.8	6362.0	6374.5	6396.3	6418.2	6474.3	6424.4	6408.8	6408.8	6377.6
20°	6471.2	6480.5	6499.2	6536.7	6564.7	6617.7	6567.8	6546.0	6536.7	6496.1
22.5°	6592.8	6608.4	6636.5	6686.4	6736.3	6786.2	6736.3	6698.8	6670.8	6617.7
25°	6733.1	6751.8	6795.5	6876.6	6945.2	7016.9	6957.7	6882.8	6826.7	6751.8
27.5°	6932.7	6954.6	7007.6	7107.4	7194.7	7257.1	7200.9	7104.3	7026.3	6935.8
30°	7213.4	7235.2	7297.6	7403.6	7462.9	7503.4	7466.0	7391.2	7297.6	7194.7
32.5°	7575.2	7603.2	7671.8	7771.6	7784.1	7790.4	7777.9	7740.5	7671.8	7547.1
35°	8033.6	8064.8	8142.8	8223.8	8211.4	8223.8	8205.1	8192.7	8142.8	7999.3
37.5°	8595.0	8632.4	8713.5	8775.8	8744.7	8729.1	8732.2	8735.3	8707.2	8548.2
40°	9246.8	9296.7	9355.9	9421.4	9368.4	9321.6	9352.8	9377.7	9352.8	9190.6
42.5°	9917.3	9989.0	10051.4	10144.9	10101.3	10042.0	10085.7	10113.7	10060.7	9886.1
45°	10662.6	10731.2	10812.3	10952.6	10921.5	10859.1	10921.5	10927.7	10837.3	10631.4
47.5°	11432.9	11504.6	11626.3	11813.4	11800.9	11732.3	11813.4	11769.7	11654.3	11408.0
50°	12162.7	12262.5	12449.6	12711.6	12736.5	12652.3	12761.5	12677.3	12483.9	12175.2
52.5°	12848.8	12954.8	13251.1	13606.6	13697.0	13587.9	13734.5	13587.9	13297.9	12901.8
55°	13569.2	13687.7	14040.1	14504.8	14685.7	14604.6	14741.8	14520.4	14108.7	13628.4
57.5°	14417.5	14489.2	14910.2	15462.2	15767.8	15786.5	15848.9	15474.7	14975.7	14429.9
60°	15337.5	15437.2	15895.7	16556.8	17040.2	17196.2	17130.7	16575.5	15995.5	15368.6
62.5°	16516.3	16625.4	17174.3	17966.5	18730.5	19117.2	18861.5	18056.9	17339.6	16588.0
65°	17492.4	17614.1	18605.8	20018.5	21409.4	22186.0	21543.5	20062.2	18771.1	17710.7
67.5°	16784.5	16934.2	18490.4	21085.1	24543.7	26860.8	24662.2	21403.2	18874.0	17436.3
70°	14670.1	14810.4	16625.4	19797.1	25426.2	30503.4	25956.4	20380.3	16684.7	15075.5
72.5°	9739.5	10191.7	12028.6	15833.3	22703.7	28226.8	22928.2	15512.1	11158.5	9717.7
75°	3230.9	3592.7	4846.4	8208.2	15206.5	21110.0	14476.7	7263.3	3839.0	2763.1
77.5°	814.0	938.7	1294.2	2348.3	6065.7	12019.2	5460.7	1918.0	1044.7	729.8
80°	396.1	436.6	623.7	782.8	1518.8	3820.3	1425.2	736.0	492.7	380.5
82.5°	218.3	221.4	352.4	442.8	564.5	988.6	586.3	430.4	283.8	230.8
85°	134.1	131.0	187.1	237.0	237.0	352.4	280.7	237.0	162.2	143.5
87.5°	53.0	53.0	68.6	74.8	65.5	90.4	71.7	78.0	62.4	59.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5950.4
5981.5
6028.3
6084.5
6137.5
6190.5
6274.7
6377.6
6496.1
6614.6
6748.7
6932.7
7194.7
7550.2
7999.3
8548.2
9190.6
9898.6
10653.3
11392.4
12168.9
12864.4
13562.9
14355.1
15268.8
16457.0
17536.1
17221.1
14860.3
9402.7
2613.4
651.8
349.3
230.8
149.7
62.4
0.0

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