

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: P956401

Luminaire Tested: **GALN-SB9A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956401
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-SB9A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37208 lumens
Efficiency: N/A
Efficacy: 145.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

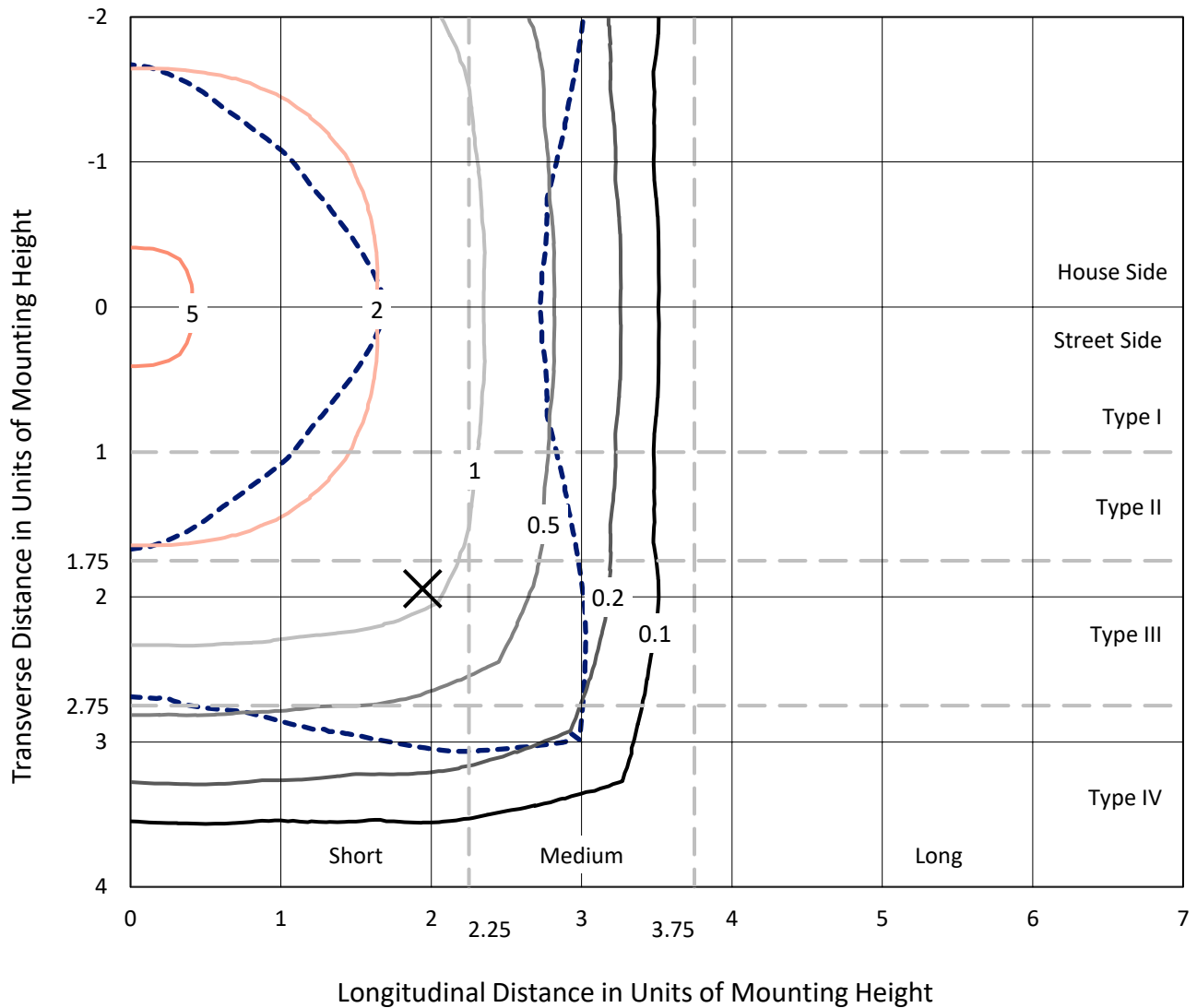
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

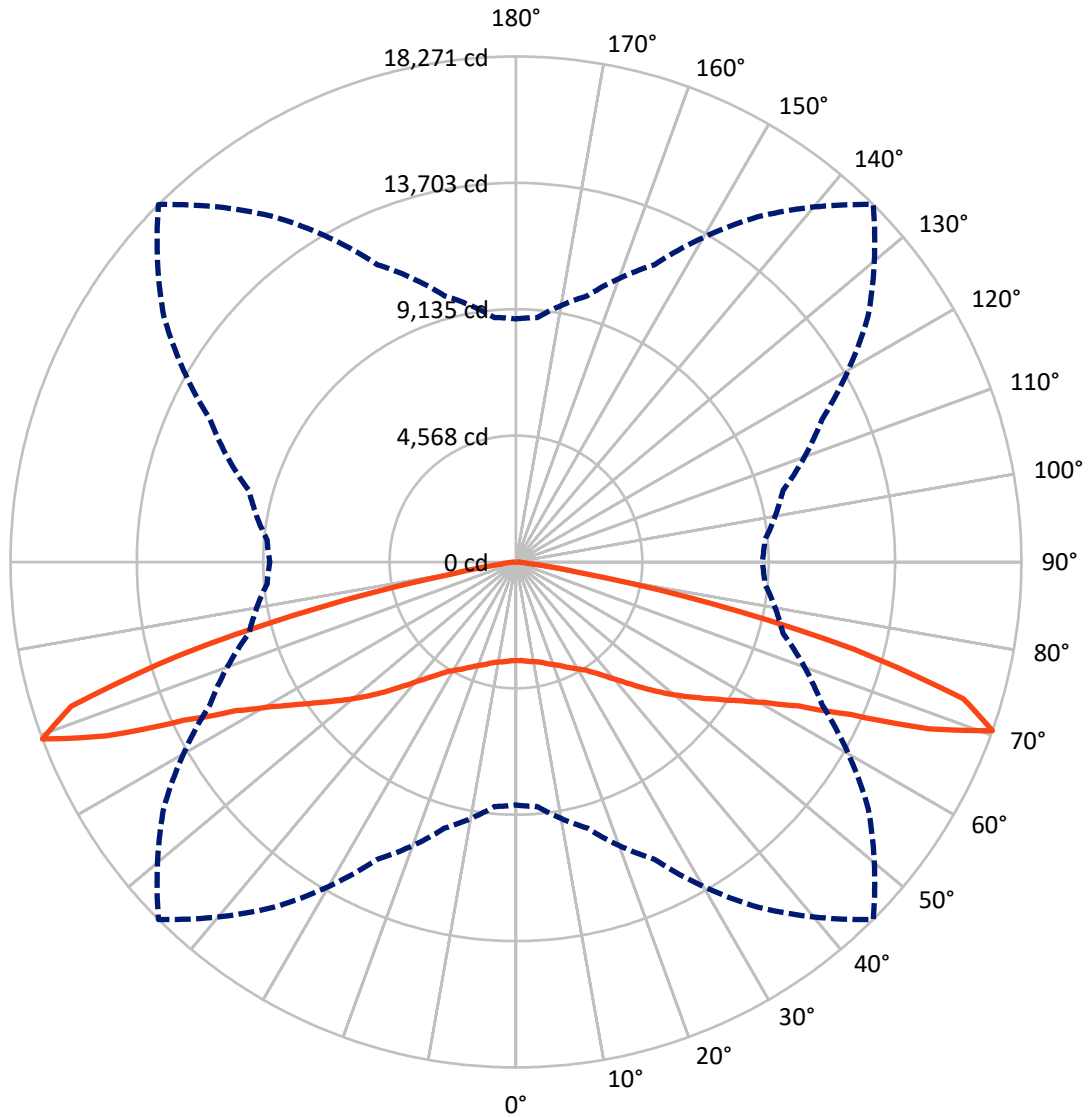
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	18604.0	0.0	18604.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18604.0	0.0	18604.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37208.0	0.0	37208.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.3	0.9
10°-20°	1073.7	2.9
20°-30°	1918.8	5.2
30°-40°	3110.4	8.4
40°-50°	5066.3	13.6
50°-60°	7724.4	20.8
60°-70°	11491.5	30.9
70°-80°	6263.3	16.8
80°-90°	213.3	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°	37208.0	100.0
0°-180°	37208.0	100.0



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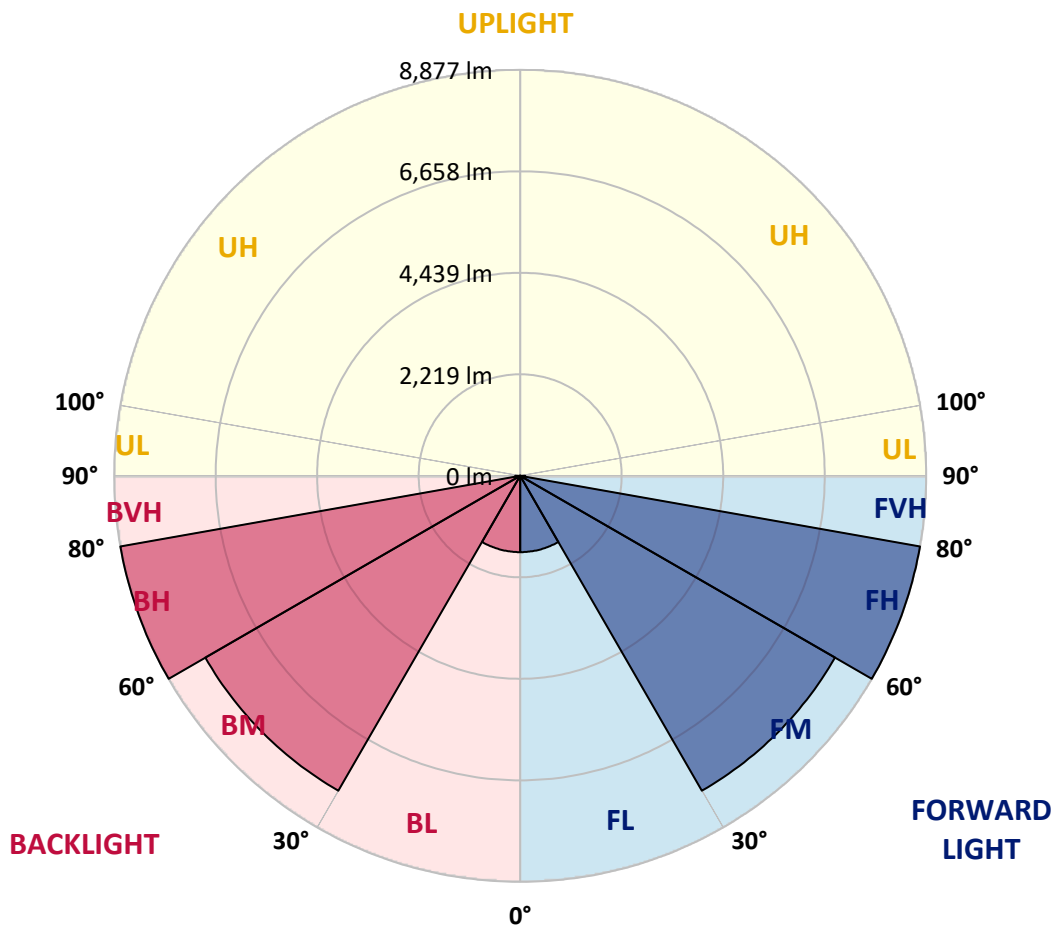
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1669.4	4.5			
FM (30°-60°)	7950.6	21.4			
FH (60°-80°)	8877.4	23.9			G4/12000
FVH (80°-90°)	106.6	0.3			G2/225
BL (0°-30°)	1669.4	4.5	B3/2500		
BM (30°-60°)	7950.6	21.4	B4/8500		
BH (60°-80°)	8877.4	23.9	B5		G4/12000
BVH (80°-90°)	106.6	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-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1	3564.1
2.5°	3581.0	3584.7	3577.2	3573.5	3569.7	3564.1	3566.0	3575.3	3582.8	3581.0
5°	3610.8	3614.6	3609.0	3607.1	3599.6	3597.8	3597.8	3607.1	3612.7	3609.0
7.5°	3644.5	3650.1	3640.7	3638.9	3635.1	3631.4	3629.5	3638.9	3644.5	3644.5
10°	3676.2	3681.8	3674.4	3668.7	3665.0	3665.0	3661.3	3668.7	3678.1	3676.2
12.5°	3709.8	3713.6	3706.1	3702.4	3702.4	3708.0	3702.4	3706.1	3713.6	3709.8
15°	3750.9	3752.8	3750.9	3756.5	3765.9	3784.6	3767.8	3764.0	3767.8	3758.4
17.5°	3807.0	3810.7	3818.2	3831.3	3844.3	3878.0	3848.1	3838.7	3838.7	3820.1
20°	3876.1	3881.7	3892.9	3915.3	3932.1	3963.9	3934.0	3920.9	3915.3	3891.0
22.5°	3948.9	3958.3	3975.1	4005.0	4034.9	4064.8	4034.9	4012.5	3995.6	3963.9
25°	4033.0	4044.2	4070.4	4118.9	4160.0	4203.0	4167.5	4122.7	4089.0	4044.2
27.5°	4152.6	4165.6	4197.4	4257.2	4309.5	4346.8	4313.2	4255.3	4208.6	4154.4
30°	4320.7	4333.8	4371.1	4434.6	4470.1	4494.4	4472.0	4427.2	4371.1	4309.5
32.5°	4537.4	4554.2	4595.3	4655.1	4662.5	4666.3	4658.8	4636.4	4595.3	4520.6
35°	4812.0	4830.6	4877.3	4925.9	4918.4	4925.9	4914.7	4907.2	4877.3	4791.4
37.5°	5148.2	5170.6	5219.2	5256.5	5237.9	5228.5	5230.4	5232.3	5215.5	5120.2
40°	5538.6	5568.5	5604.0	5643.2	5611.5	5583.4	5602.1	5617.1	5602.1	5505.0
42.5°	5940.2	5983.2	6020.6	6076.6	6050.4	6015.0	6041.1	6057.9	6026.2	5921.6
45°	6386.7	6427.8	6476.4	6560.4	6541.7	6504.4	6541.7	6545.5	6491.3	6368.0
47.5°	6848.1	6891.0	6963.9	7076.0	7068.5	7027.4	7076.0	7049.8	6980.7	6833.1
50°	7285.2	7345.0	7457.1	7614.0	7628.9	7578.5	7643.9	7593.4	7477.6	7292.7
52.5°	7696.2	7759.7	7937.1	8150.1	8204.2	8138.9	8226.7	8138.9	7965.1	7727.9
55°	8127.7	8198.6	8409.7	8688.1	8796.4	8747.8	8830.0	8697.4	8450.8	8163.2
57.5°	8635.8	8678.7	8930.9	9261.5	9444.6	9455.8	9493.2	9269.0	8970.1	8643.2
60°	9186.8	9246.6	9521.2	9917.2	10206.7	10300.1	10260.9	9928.4	9581.0	9205.5
62.5°	9892.9	9958.3	10287.1	10761.5	11219.2	11450.8	11297.7	10815.7	10386.1	9935.9
65°	10477.6	10550.5	11144.5	11990.7	12823.8	13288.9	12904.1	12016.8	11243.5	10608.4
67.5°	10053.6	10143.2	11075.4	12629.5	14701.1	16089.1	14772.1	12820.1	11305.1	10444.0
70°	8787.1	8871.1	9958.3	11858.1	15229.8	18270.9	15547.4	12207.4	9993.8	9029.9
72.5°	5833.8	6104.6	7204.9	9483.8	13599.0	16907.3	13733.5	9291.4	6683.7	5820.7
75°	1935.2	2151.9	2902.9	4916.6	9108.4	12644.5	8671.2	4350.6	2299.5	1655.0
77.5°	487.5	562.3	775.2	1406.6	3633.3	7199.3	3270.9	1148.8	625.8	437.1
80°	237.2	261.5	373.6	468.9	909.7	2288.3	853.7	440.8	295.1	227.9
82.5°	130.8	132.6	211.1	265.3	338.1	592.2	351.2	257.8	170.0	138.2
85°	80.3	78.5	112.1	142.0	142.0	211.1	168.1	142.0	97.1	85.9
87.5°	31.8	31.8	41.1	44.8	39.2	54.2	43.0	46.7	37.4	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3564.1
3582.8
3610.8
3644.5
3676.2
3708.0
3758.4
3820.1
3891.0
3962.0
4042.3
4152.6
4309.5
4522.4
4791.4
5120.2
5505.0
5929.0
6381.1
6823.8
7288.9
7705.5
8123.9
8598.4
9145.7
9857.4
10503.8
10315.1
8901.0
5632.0
1565.4
390.4
209.2
138.2
89.7
37.4
0.0

OF REPORT)