

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: P953546

Luminaire Tested: **GALN-SB7A-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953546
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-SB7A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29069 lumens
Efficiency: N/A
Efficacy: 146.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

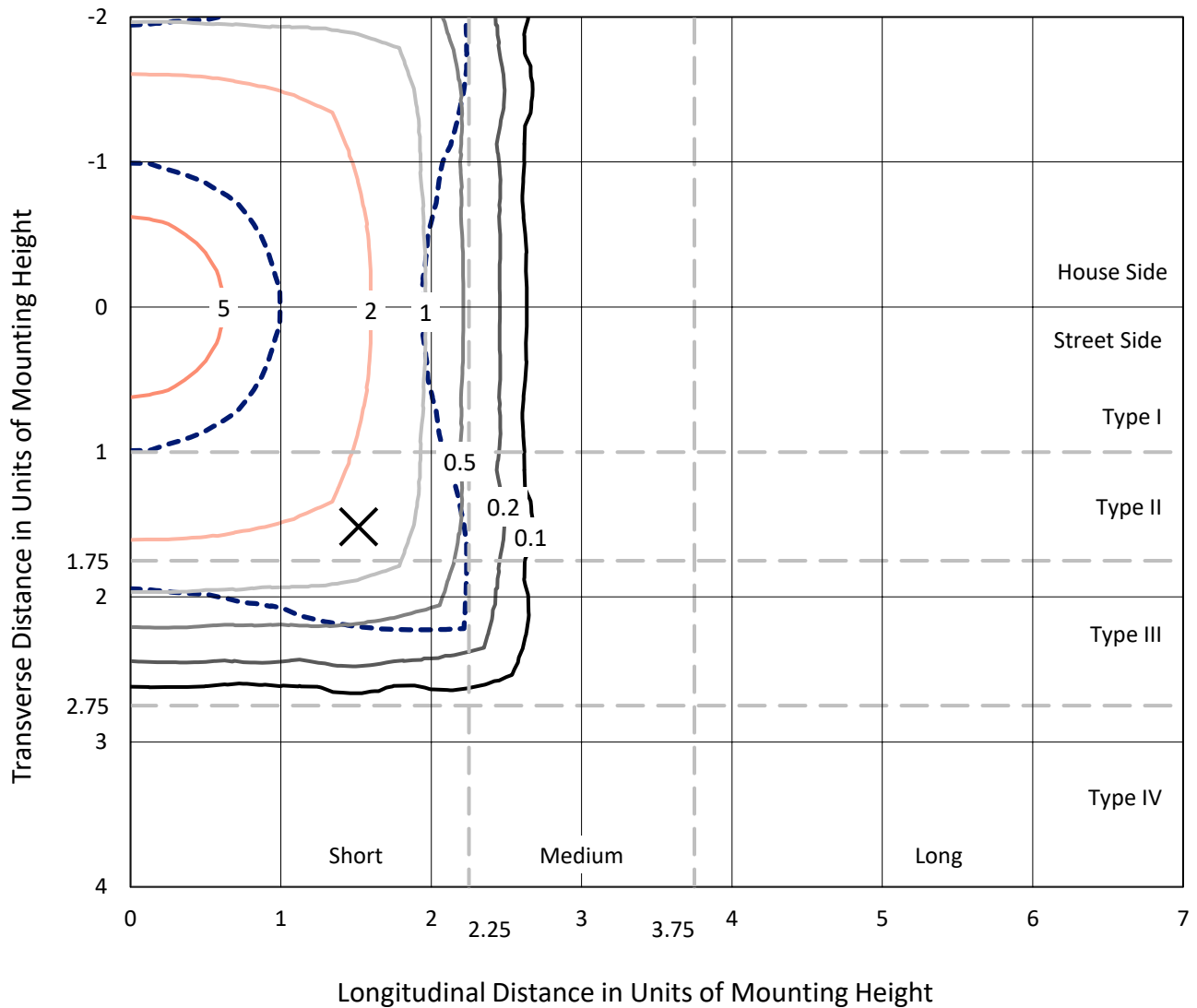
Input Watts (W): 199.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

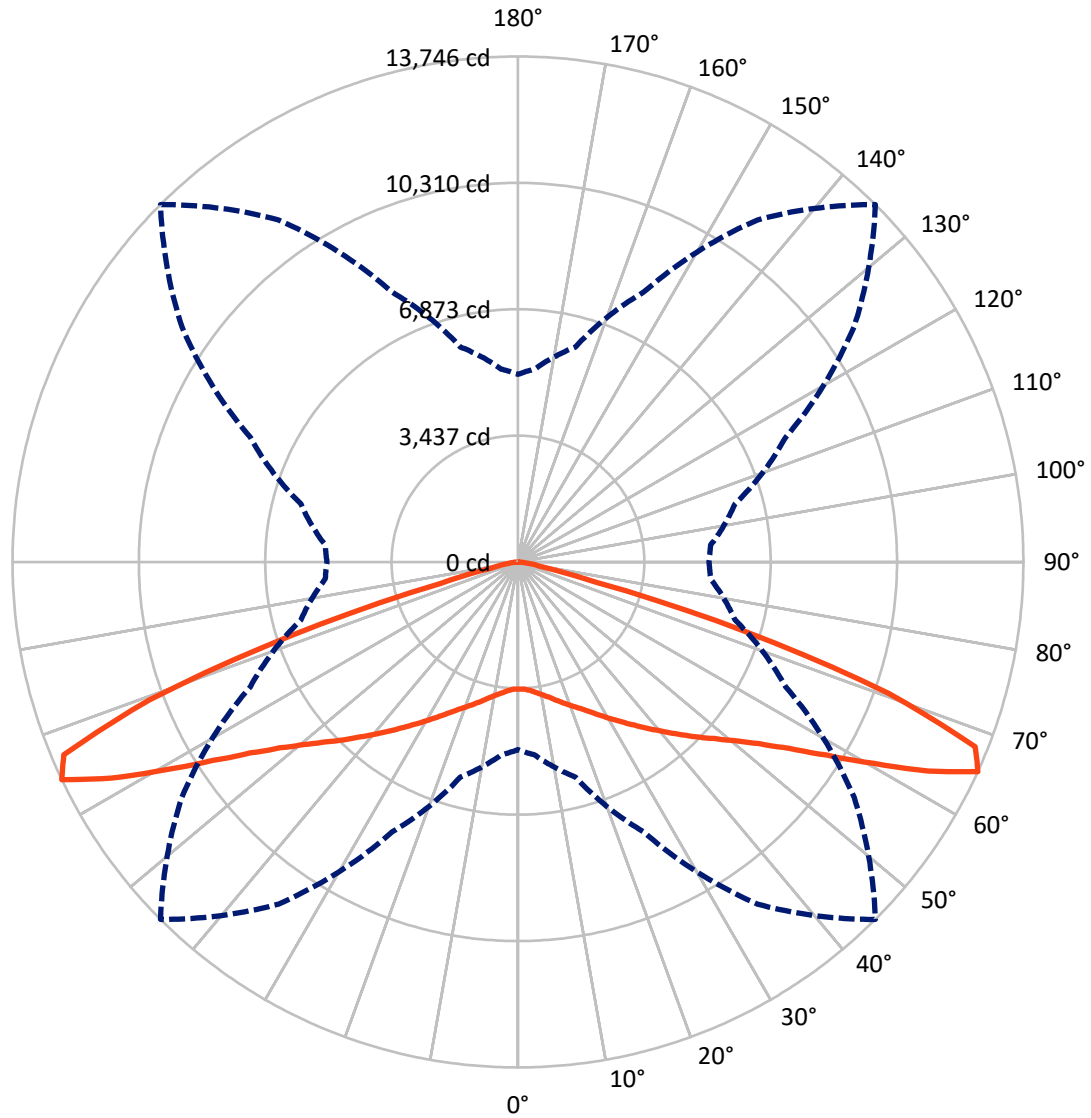
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	14534.5	0.0	14534.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14534.5	0.0	14534.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29069.0	0.0	29069.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	1.2
10°-20°	1114.1	3.8
20°-30°	2103.5	7.2
30°-40°	3444.4	11.8
40°-50°	5340.6	18.4
50°-60°	7889.2	27.1
60°-70°	7509.8	25.8
70°-80°	1211.8	4.2
80°-90°	114.2	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°	29069.0	100.0
0°-180°	29069.0	100.0

Coefficient of Utilization



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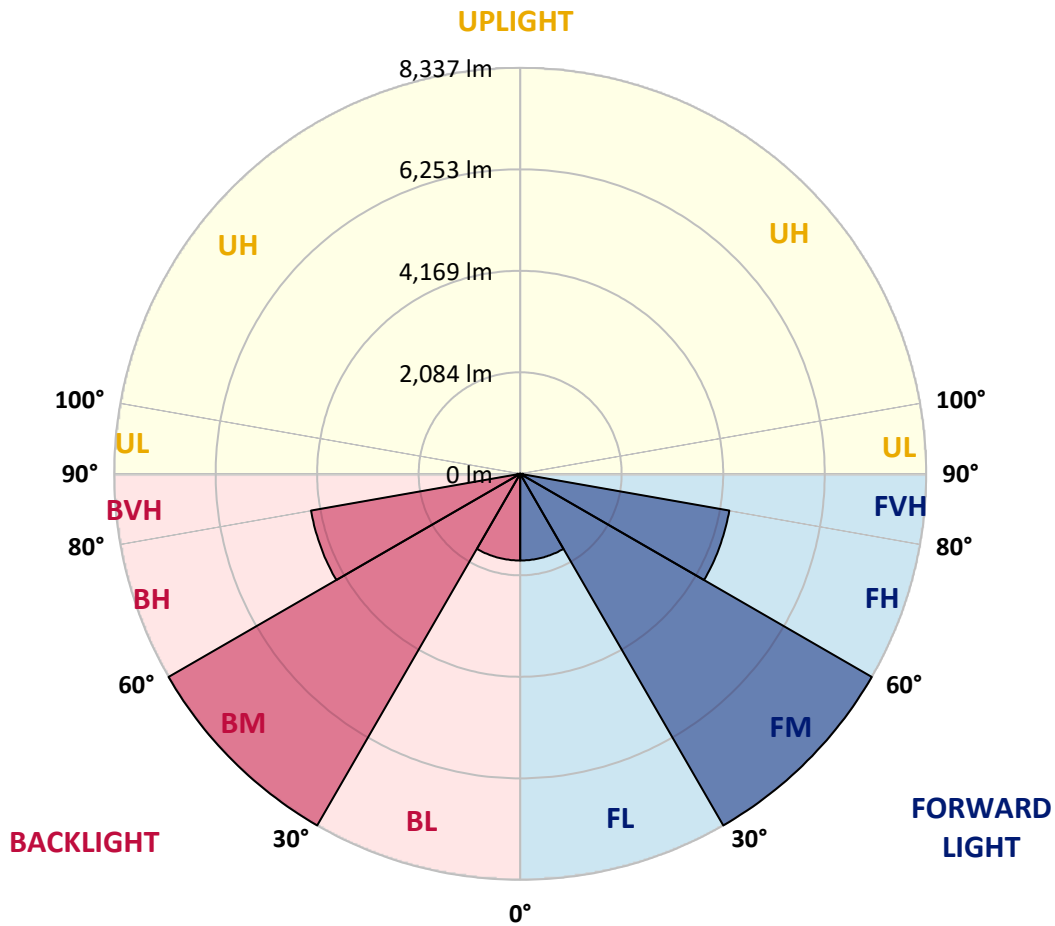
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1779.5	6.1			
FM (30°-60°)	8337.1	28.7			
FH (60°-80°)	4360.8	15.0			G2/5000
FVH (80°-90°)	57.1	0.2			G1/100
BL (0°-30°)	1779.5	6.1	B3/2500		
BM (30°-60°)	8337.1	28.7	B4/8500		
BH (60°-80°)	4360.8	15.0	B4/5000		G2/5000
BVH (80°-90°)	57.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3459.5	3459.5	3459.5	3459.5	3459.5	3459.5	3459.5	3459.5	3459.5	3459.5
2.5°	3482.8	3471.2	3479.9	3472.6	3466.8	3461.0	3463.9	3474.1	3478.5	3479.9
5°	3529.5	3519.3	3523.7	3523.7	3513.5	3510.5	3512.0	3519.3	3528.1	3528.1
7.5°	3605.3	3595.1	3605.3	3599.5	3590.8	3587.8	3586.4	3592.2	3605.3	3605.3
10°	3697.2	3685.6	3691.4	3688.5	3678.3	3673.9	3672.4	3681.2	3692.9	3691.4
12.5°	3797.9	3784.7	3792.0	3783.3	3780.4	3776.0	3776.0	3774.5	3781.8	3776.0
15°	3910.2	3901.4	3904.3	3898.5	3902.9	3900.0	3888.3	3882.5	3885.4	3876.6
17.5°	4042.9	4022.5	4032.7	4029.8	4029.8	4035.6	4016.6	4009.3	4015.2	4006.4
20°	4196.0	4175.6	4180.0	4174.2	4166.9	4172.7	4149.4	4155.2	4159.6	4153.7
22.5°	4363.8	4337.5	4336.0	4339.0	4322.9	4324.4	4308.3	4322.9	4331.7	4315.6
25°	4535.9	4508.1	4527.1	4519.8	4499.4	4503.8	4492.1	4506.7	4514.0	4493.6
27.5°	4718.2	4699.2	4716.7	4721.1	4696.3	4713.8	4696.3	4709.4	4716.7	4686.1
30°	4931.1	4912.1	4928.2	4939.9	4910.7	4938.4	4923.8	4932.6	4934.0	4897.6
32.5°	5163.0	5133.8	5174.7	5180.5	5148.4	5182.0	5163.0	5174.7	5182.0	5132.4
35°	5445.9	5409.5	5456.2	5448.9	5421.2	5448.9	5431.4	5448.9	5466.4	5406.6
37.5°	5750.8	5712.8	5762.4	5749.3	5723.1	5742.0	5731.8	5743.5	5771.2	5707.0
40°	6086.2	6039.5	6106.6	6083.3	6058.5	6055.6	6061.4	6068.7	6105.2	6033.7
42.5°	6445.0	6395.4	6496.0	6459.6	6424.6	6401.2	6420.2	6434.8	6469.8	6389.6
45°	6854.8	6798.0	6929.2	6885.5	6830.0	6781.9	6812.5	6834.4	6885.5	6789.2
47.5°	7307.0	7242.8	7382.8	7369.7	7279.2	7174.2	7244.2	7307.0	7344.9	7228.2
50°	7748.9	7699.3	7883.1	7899.1	7788.3	7640.9	7738.7	7833.5	7843.7	7690.5
52.5°	8163.1	8113.5	8380.4	8481.0	8381.9	8206.8	8310.4	8406.6	8329.3	8131.0
55°	8494.2	8453.3	8793.1	9052.8	9086.3	8941.9	9003.2	9000.2	8746.5	8441.7
57.5°	8574.4	8568.5	8997.3	9547.2	9897.2	9914.7	9793.7	9484.5	8937.5	8527.7
60°	8209.8	8246.2	8835.4	9805.3	10738.7	11126.7	10603.1	9720.7	8720.2	8151.4
62.5°	7118.8	7215.1	7925.4	9490.3	11418.4	12521.0	11252.1	9361.9	7827.6	7085.3
65°	5101.7	5269.5	6054.1	8098.9	11357.1	13746.1	11158.8	8033.3	6112.5	5256.3
67.5°	2314.6	2485.2	3151.8	5545.1	9872.4	13413.6	9849.1	5603.5	3309.3	2494.0
70°	838.6	867.8	1082.2	2219.8	6309.4	10687.7	6579.2	2235.8	1150.7	924.7
72.5°	507.5	511.9	557.1	794.9	2192.1	6488.8	2285.4	821.1	568.8	504.6
75°	322.3	319.4	396.7	485.7	777.4	2189.2	815.3	485.7	395.2	360.2
77.5°	231.9	239.2	284.4	363.2	490.0	742.4	481.3	347.1	284.4	233.4
80°	173.6	177.9	207.1	282.9	344.2	462.3	306.3	256.7	214.4	145.8
82.5°	125.4	125.4	135.6	205.6	210.0	249.4	166.3	180.9	141.5	103.6
85°	74.4	72.9	84.6	122.5	109.4	91.9	75.8	110.8	89.0	64.2
87.5°	26.3	27.7	26.3	35.0	29.2	24.8	23.3	30.6	24.8	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3459.5
3479.9
3528.1
3601.0
3688.5
3778.9
3878.1
4013.7
4166.9
4331.7
4516.9
4709.4
4919.4
5165.9
5443.0
5746.4
6057.0
6431.9
6838.8
7267.6
7709.5
8136.8
8451.9
8501.4
8084.3
7041.5
5193.6
2457.5
913.0
513.4
363.2
237.7
150.2
103.6
62.7
20.4
0.0

OF REPORT)