

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: P956402

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956402  
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-SB9A-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

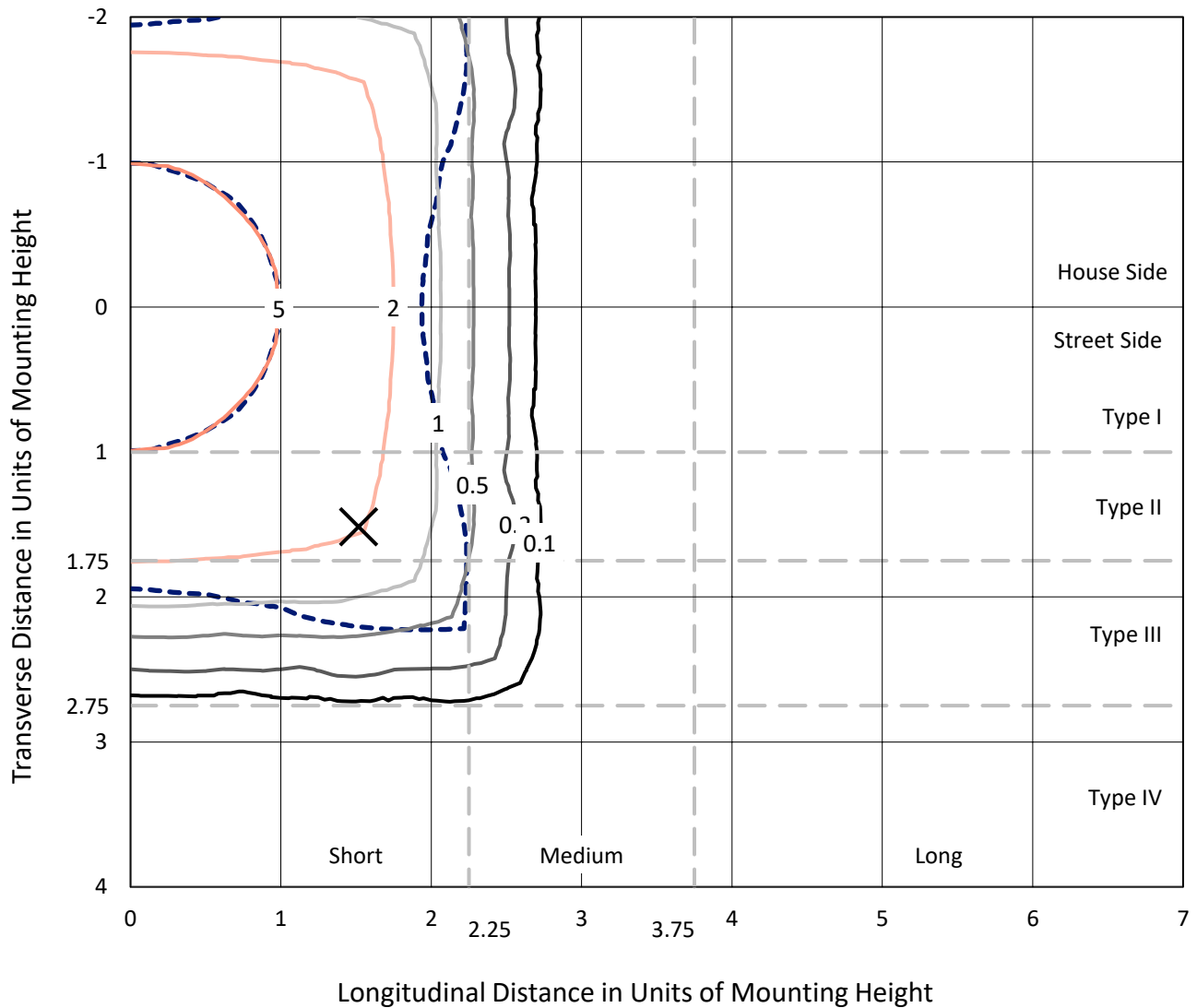
Lumens per Lamp: N/A  
Luminaire Lumens: 37230 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 255.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

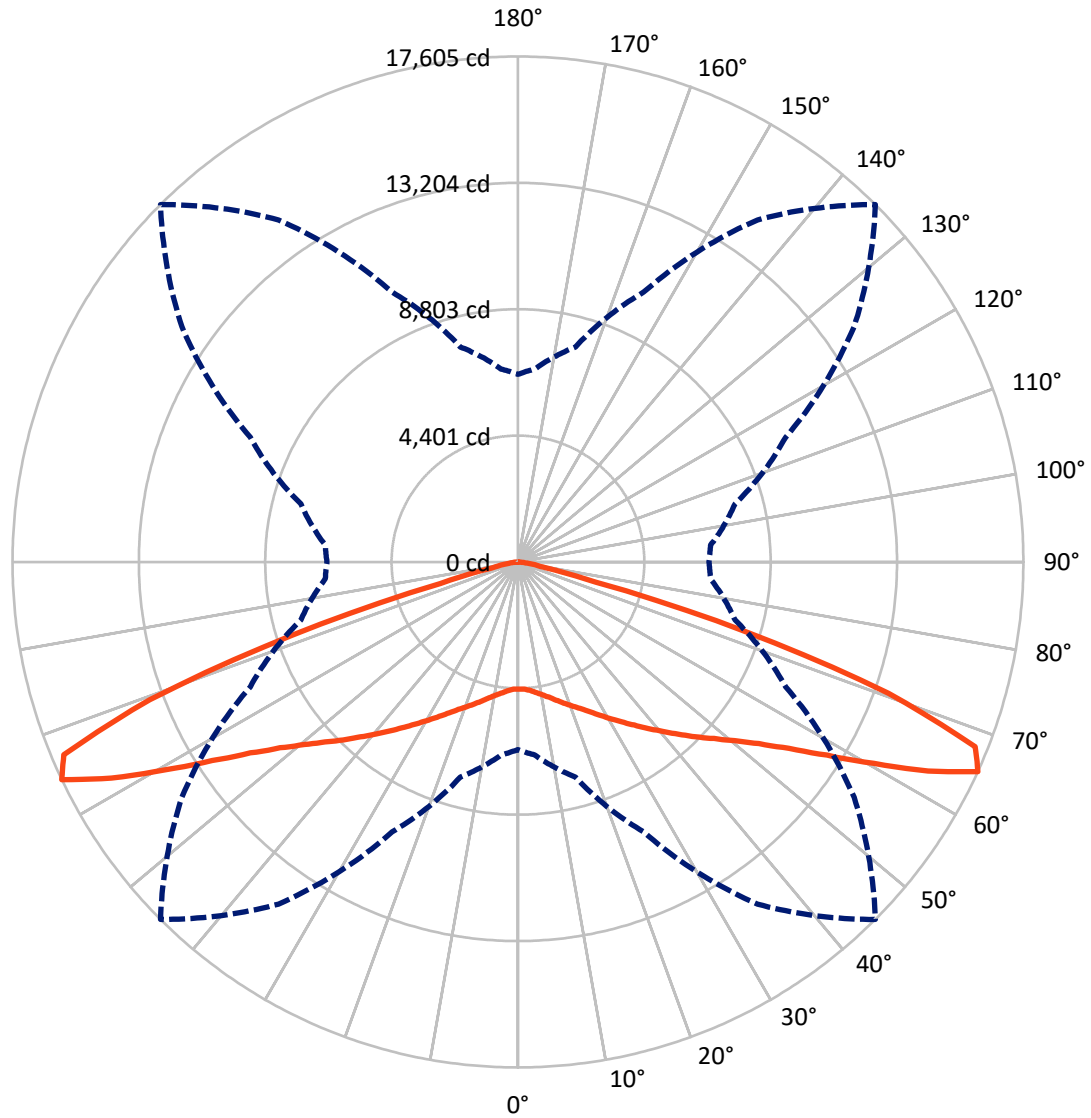
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 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
<b>House Side</b>	Lumens	18615.0	0.0	18615.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18615.0	0.0	18615.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	37230.0	0.0	37230.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	437.3	1.2
10°-20°	1426.9	3.8
20°-30°	2694.1	7.2
30°-40°	4411.4	11.8
40°-50°	6840.0	18.4
50°-60°	10104.0	27.1
60°-70°	9618.1	25.8
70°-80°	1552.0	4.2
80°-90°	146.3	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°	37230.0	100.0
0°-180°	37230.0	100.0

**Coefficient of Utilization**



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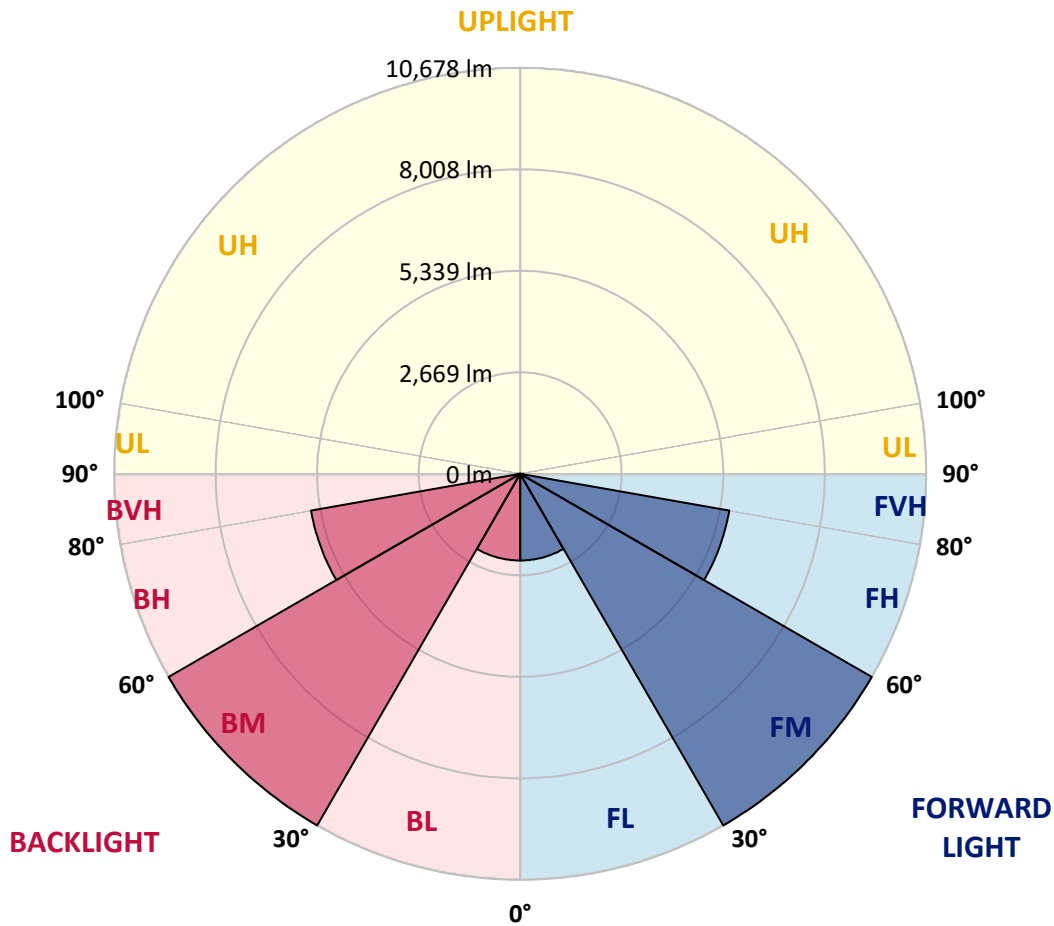
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2279.1	6.1			
FM (30°-60°)	10677.7	28.7			
FH (60°-80°)	5585.1	15.0			G3/7500
FVH (80°-90°)	73.1	0.2			G1/100
BL (0°-30°)	2279.1	6.1	B3/2500		
BM (30°-60°)	10677.7	28.7	B5		
BH (60°-80°)	5585.1	15.0	B5		G3/7500
BVH (80°-90°)	73.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7	4430.7
2.5°	4460.6	4445.7	4456.9	4447.6	4440.1	4432.6	4436.3	4449.4	4455.0	4456.9
5°	4520.4	4507.3	4512.9	4512.9	4499.9	4496.1	4498.0	4507.3	4518.5	4518.5
7.5°	4617.5	4604.5	4617.5	4610.1	4598.9	4595.1	4593.3	4600.7	4617.5	4617.5
10°	4735.2	4720.3	4727.7	4724.0	4710.9	4705.3	4703.5	4714.7	4729.6	4727.7
12.5°	4864.1	4847.3	4856.6	4845.4	4841.7	4836.1	4836.1	4834.2	4843.6	4836.1
15°	5007.9	4996.7	5000.5	4993.0	4998.6	4994.9	4979.9	4972.4	4976.2	4965.0
17.5°	5177.9	5151.8	5164.8	5161.1	5161.1	5168.6	5144.3	5135.0	5142.4	5131.2
20°	5374.0	5347.9	5353.5	5346.0	5336.7	5344.2	5314.3	5321.7	5327.4	5319.9
22.5°	5588.9	5555.2	5553.4	5557.1	5536.6	5538.4	5517.9	5536.6	5547.8	5527.2
25°	5809.3	5773.8	5798.1	5788.7	5762.6	5768.2	5753.2	5771.9	5781.3	5755.1
27.5°	6042.8	6018.5	6040.9	6046.5	6014.8	6037.2	6014.8	6031.6	6040.9	6001.7
30°	6315.5	6291.2	6311.8	6326.7	6289.3	6324.8	6306.1	6317.4	6319.2	6272.5
32.5°	6612.5	6575.1	6627.4	6634.9	6593.8	6636.8	6612.5	6627.4	6636.8	6573.3
35°	6974.9	6928.2	6987.9	6978.6	6943.1	6978.6	6956.2	6978.6	7001.0	6924.4
37.5°	7365.3	7316.7	7380.2	7363.4	7329.8	7354.1	7341.0	7355.9	7391.4	7309.2
40°	7794.9	7735.1	7821.0	7791.2	7759.4	7755.7	7763.1	7772.5	7819.2	7727.6
42.5°	8254.4	8190.9	8319.8	8273.1	8228.3	8198.4	8222.7	8241.3	8286.2	8183.4
45°	8779.3	8706.4	8874.6	8818.5	8747.5	8685.9	8725.1	8753.1	8818.5	8695.2
47.5°	9358.4	9276.2	9455.5	9438.7	9322.9	9188.4	9278.0	9358.4	9406.9	9257.5
50°	9924.3	9860.8	10096.2	10116.7	9974.8	9786.1	9911.3	10032.7	10045.8	9849.6
52.5°	10454.8	10391.3	10733.2	10862.0	10735.0	10510.9	10643.5	10766.8	10667.8	10413.7
55°	10878.9	10826.6	11261.8	11594.3	11637.2	11452.3	11530.8	11527.0	11202.0	10811.6
57.5°	10981.6	10974.1	11523.3	12227.5	12675.8	12698.2	12543.2	12147.2	11446.7	10921.8
60°	10514.6	10561.3	11316.0	12558.1	13753.6	14250.5	13579.9	12449.8	11168.4	10439.9
62.5°	9117.4	9240.7	10150.4	12154.7	14624.1	16036.2	14411.1	11990.3	10025.2	9074.4
65°	6534.0	6748.8	7753.8	10372.6	14545.6	17605.3	14291.6	10288.6	7828.5	6732.0
67.5°	2964.4	3183.0	4036.6	7101.9	12644.1	17179.4	12614.2	7176.6	4238.3	3194.2
70°	1074.1	1111.4	1386.0	2843.0	8080.7	13688.2	8426.3	2863.5	1473.8	1184.3
72.5°	650.0	655.6	713.6	1018.0	2807.5	8310.4	2927.1	1051.6	728.5	646.3
75°	412.8	409.1	508.1	622.0	995.6	2803.8	1044.2	622.0	506.2	461.4
77.5°	297.0	306.3	364.2	465.1	627.6	950.8	616.4	444.6	364.2	298.9
80°	222.3	227.9	265.2	362.4	440.8	592.1	392.3	328.8	274.6	186.8
82.5°	160.6	160.6	173.7	263.4	269.0	319.4	212.9	231.6	181.2	132.6
85°	95.3	93.4	108.3	156.9	140.1	117.7	97.1	142.0	113.9	82.2
87.5°	33.6	35.5	33.6	44.8	37.4	31.8	29.9	39.2	31.8	28.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
4430.7
4456.9
4518.5
4611.9
4724.0
4839.8
4966.8
5140.6
5336.7
5547.8
5785.0
6031.6
6300.5
6616.2
6971.1
7359.7
7757.5
8237.6
8758.7
9307.9
9873.9
10421.2
10824.7
10888.2
10354.0
9018.4
6651.7
3147.5
1169.3
657.5
465.1
304.5
192.4
132.6
80.3
26.2
0.0

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