

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: P458457

Luminaire Tested: **GALN-SA9D-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458457  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9D-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53957 lumens  
Efficiency: N/A  
Efficacy: 97.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

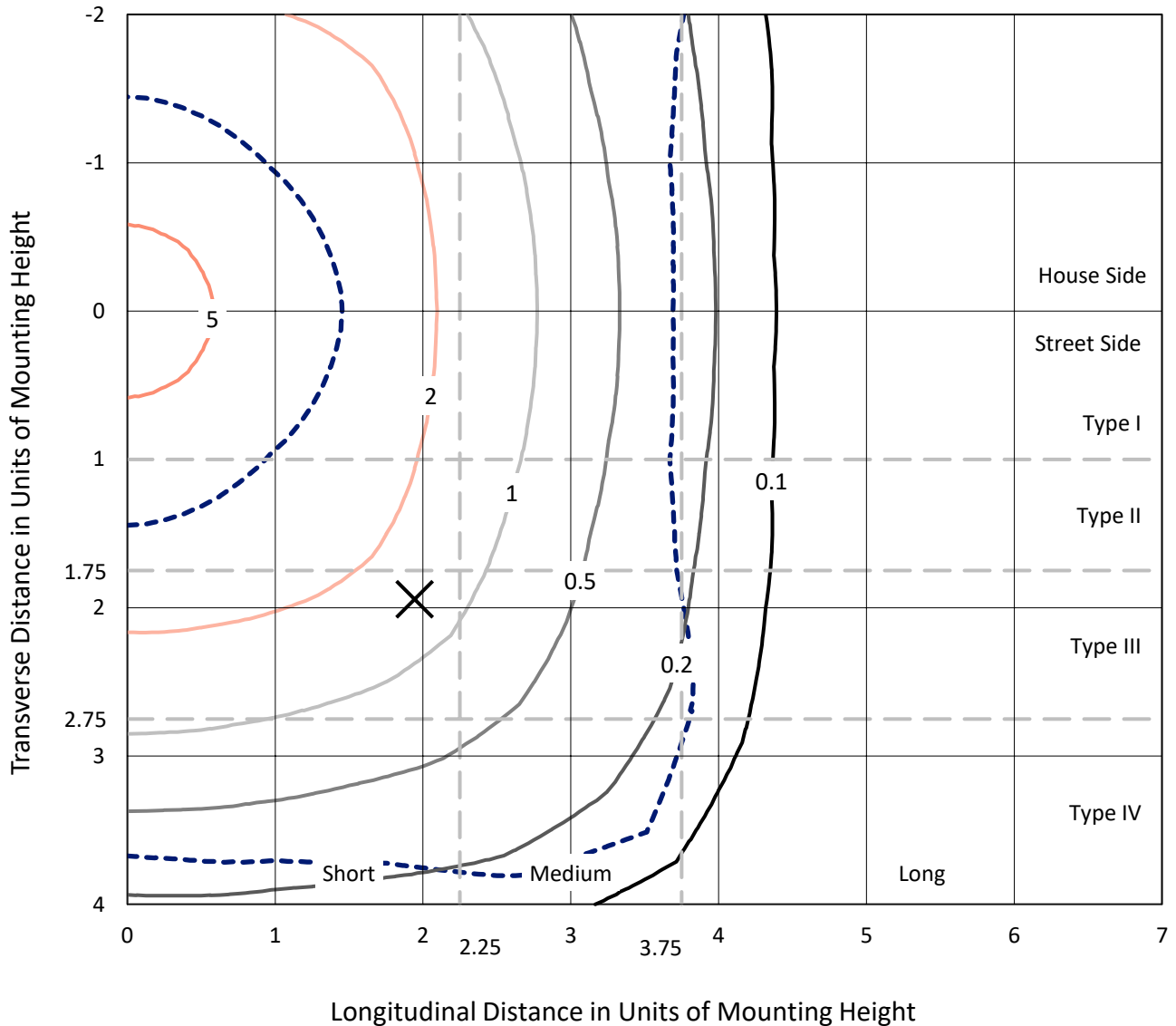
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

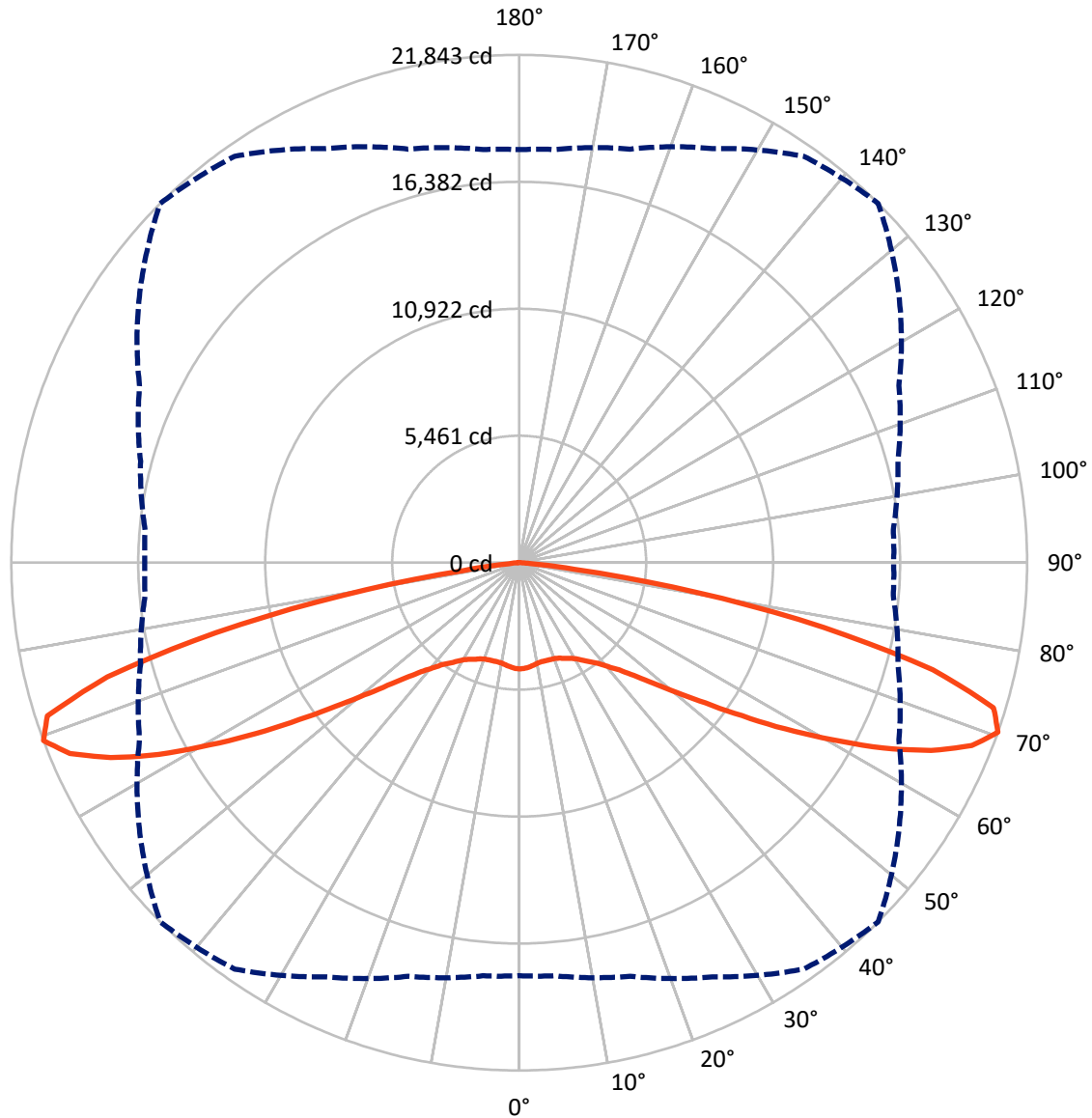
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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
<b>House Side</b>	Lumens	26978.5	0.0	26978.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	26978.5	0.0	26978.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	53957.0	0.0	53957.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.2	0.8
10°-20°	1250.7	2.3
20°-30°	2130.9	3.9
30°-40°	3302.8	6.1
40°-50°	5559.1	10.3
50°-60°	10114.5	18.7
60°-70°	17123.5	31.7
70°-80°	13254.3	24.6
80°-90°	794.2	1.5
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°	53957.0	100.0
0°-180°	53957.0	100.0

**Coefficient of Utilization**



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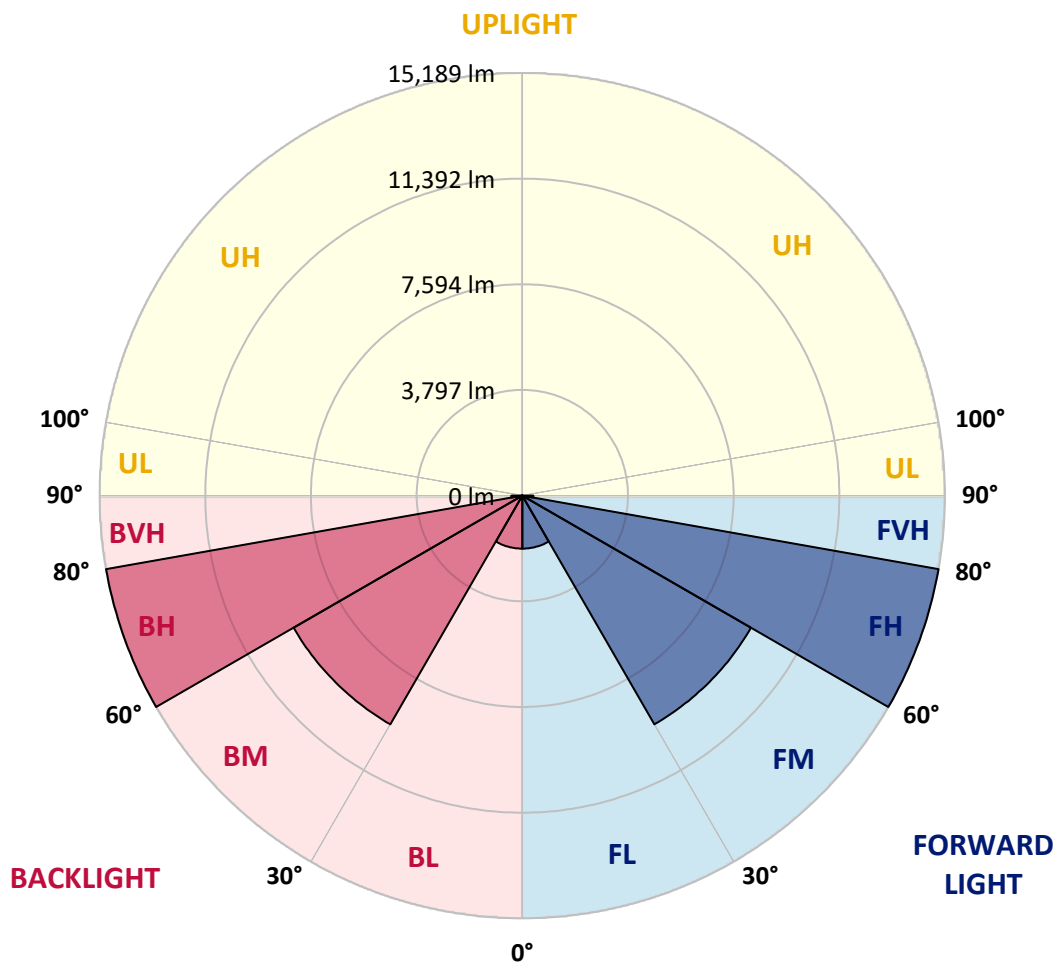
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1904.4	3.5			
FM (30°-60°)	9488.1	17.6			
FH (60°-80°)	15188.9	28.1			G5
FVH (80°-90°)	397.1	0.7			G3/500
BL (0°-30°)	1904.4	3.5	B3/2500		
BM (30°-60°)	9488.1	17.6	B5		
BH (60°-80°)	15188.9	28.1	B5		G5
BVH (80°-90°)	397.1	0.7			G3/500
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°	90°
0°	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1	4568.1
2.5°	4556.7	4559.6	4559.6	4553.9	4551.0	4551.0	4548.2	4548.2	4556.7	4559.6	4562.4
5°	4516.8	4516.8	4516.8	4514.0	4508.3	4508.3	4502.6	4502.6	4505.4	4514.0	4508.3
7.5°	4462.7	4468.4	4468.4	4457.0	4448.4	4448.4	4445.6	4448.4	4451.3	4459.8	4457.0
10°	4445.6	4448.4	4434.2	4414.2	4400.0	4391.4	4394.3	4400.0	4414.2	4419.9	4422.8
12.5°	4457.0	4457.0	4431.3	4402.8	4377.2	4365.8	4362.9	4382.9	4408.5	4425.6	4431.3
15°	4471.2	4465.5	4434.2	4397.1	4371.5	4368.6	4365.8	4380.0	4417.1	4451.3	4454.1
17.5°	4479.8	4476.9	4437.0	4391.4	4377.2	4377.2	4374.3	4385.7	4425.6	4468.4	4471.2
20°	4508.3	4499.7	4454.1	4405.7	4394.3	4400.0	4391.4	4405.7	4448.4	4499.7	4511.1
22.5°	4565.3	4556.7	4511.1	4462.7	4457.0	4457.0	4454.1	4468.4	4514.0	4568.1	4576.7
25°	4633.7	4625.1	4582.4	4548.2	4553.9	4565.3	4559.6	4562.4	4599.5	4645.1	4659.3
27.5°	4724.9	4710.6	4673.6	4645.1	4662.2	4662.2	4662.2	4659.3	4682.1	4724.9	4739.1
30°	4836.0	4830.3	4790.4	4787.6	4801.8	4787.6	4787.6	4790.4	4793.2	4833.1	4847.4
32.5°	4981.3	4969.9	4950.0	4944.3	4984.2	4995.6	4955.7	4918.6	4938.6	4978.5	4987.0
35°	5220.7	5203.6	5175.1	5143.8	5175.1	5229.3	5143.8	5115.3	5166.6	5220.7	5226.4
37.5°	5545.6	5537.0	5491.4	5434.4	5431.6	5488.6	5400.2	5397.4	5494.3	5559.8	5568.4
40°	5953.1	5961.6	5904.6	5850.5	5822.0	5867.6	5799.2	5824.9	5918.9	5993.0	5987.3
42.5°	6525.9	6494.5	6406.2	6354.9	6323.6	6306.5	6289.4	6329.3	6434.7	6514.5	6577.2
45°	7195.6	7184.2	7073.0	7010.3	6941.9	6916.3	6910.6	6981.8	7110.1	7207.0	7215.5
47.5°	7953.6	7928.0	7856.7	7791.2	7765.5	7734.2	7705.7	7759.8	7888.1	7956.5	7976.4
50°	8734.4	8740.1	8740.1	8728.7	8754.4	8760.1	8683.1	8703.1	8774.3	8768.6	8762.9
52.5°	9626.4	9657.7	9805.9	9820.2	9942.7	10025.4	9885.7	9803.1	9777.4	9623.5	9634.9
55°	10675.1	10703.6	10925.9	11148.2	11478.7	11618.4	11324.8	11068.4	10886.0	10652.3	10663.7
57.5°	11983.1	11997.4	12208.3	12635.7	13160.1	13487.8	12972.0	12464.7	12094.3	11872.0	11783.6
60°	13390.9	13405.1	13712.9	14234.4	15049.4	15448.4	14810.1	13980.8	13513.4	13174.3	13197.1
62.5°	15080.8	15137.8	15414.2	16132.3	17121.2	17568.6	16722.2	15613.7	14981.0	14559.3	14576.4
65°	16890.4	16987.3	17289.3	18078.7	18990.6	19472.2	18434.9	17155.4	16368.9	15853.1	15907.2
67.5°	18064.5	18149.9	18586.0	19458.0	20595.0	20994.0	19654.6	18164.2	17181.0	16565.5	16451.5
70°	17765.2	17836.5	18417.8	19654.6	21338.8	21843.2	19945.3	18016.0	16859.0	16149.4	16103.8
72.5°	15682.1	15533.9	16383.1	18158.5	20489.6	21335.9	19030.5	16454.4	14998.1	14268.6	14183.1
75°	10393.0	10715.0	11968.9	14060.6	17334.9	18383.6	16243.5	13211.4	11379.0	10772.0	10677.9
77.5°	3473.8	3721.8	4836.0	7970.7	11817.8	13393.7	11834.9	8640.4	6112.7	4924.3	4947.1
80°	920.5	909.1	1176.9	2191.4	5106.7	7757.0	5944.5	2926.7	1601.5	1159.8	1100.0
82.5°	330.6	370.5	475.9	607.0	1353.6	2410.9	1701.3	820.7	601.3	444.6	430.3
85°	145.3	142.5	205.2	242.2	339.1	450.3	399.0	347.7	304.9	202.3	188.1
87.5°	31.3	31.3	48.4	37.0	59.8	59.8	74.1	88.3	91.2	59.8	48.4
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)