

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: P533686

Luminaire Tested: **GALN-SA9A-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533686  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-827-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25856 lumens  
Efficiency: N/A  
Efficacy: 94.4 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

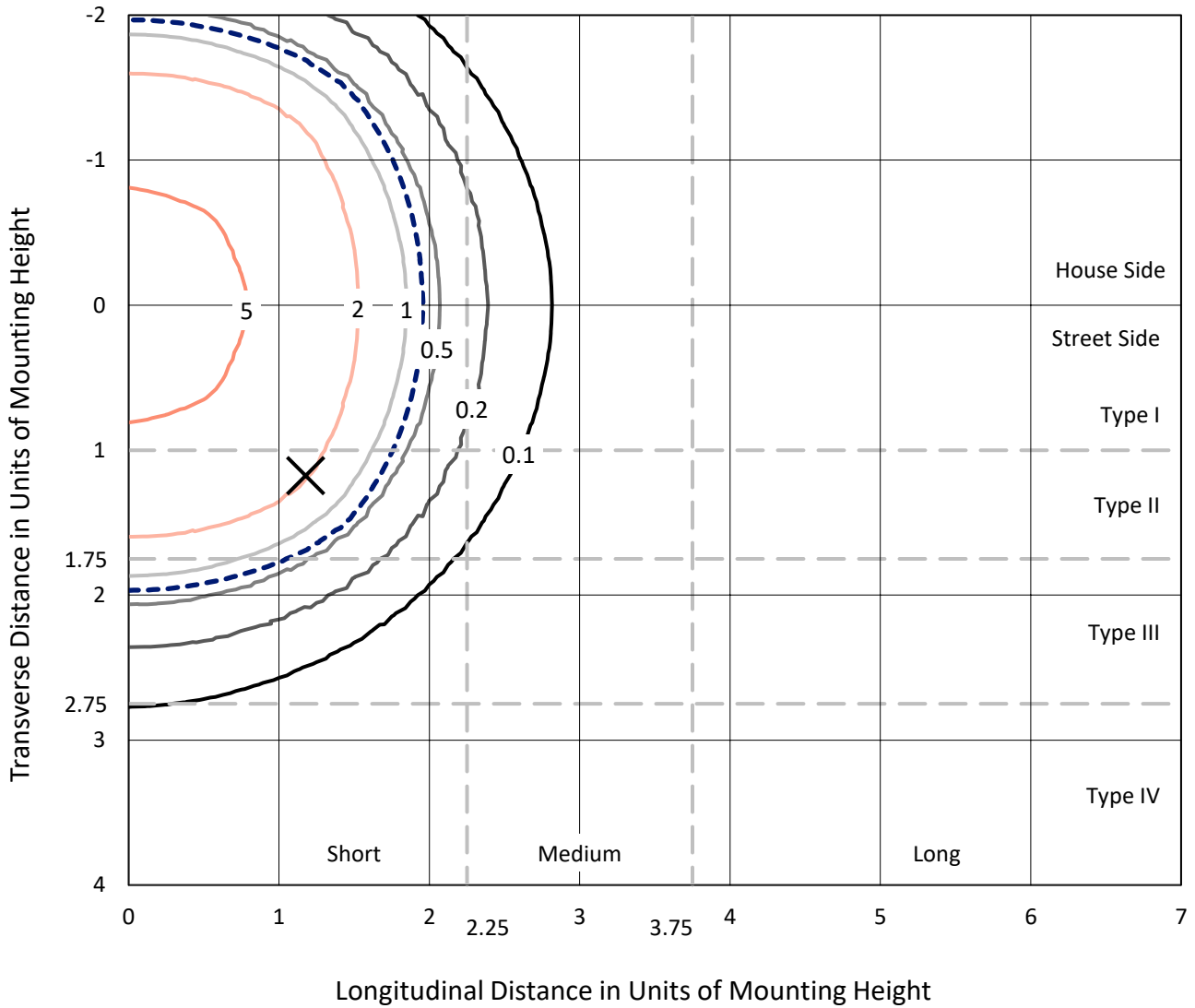
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

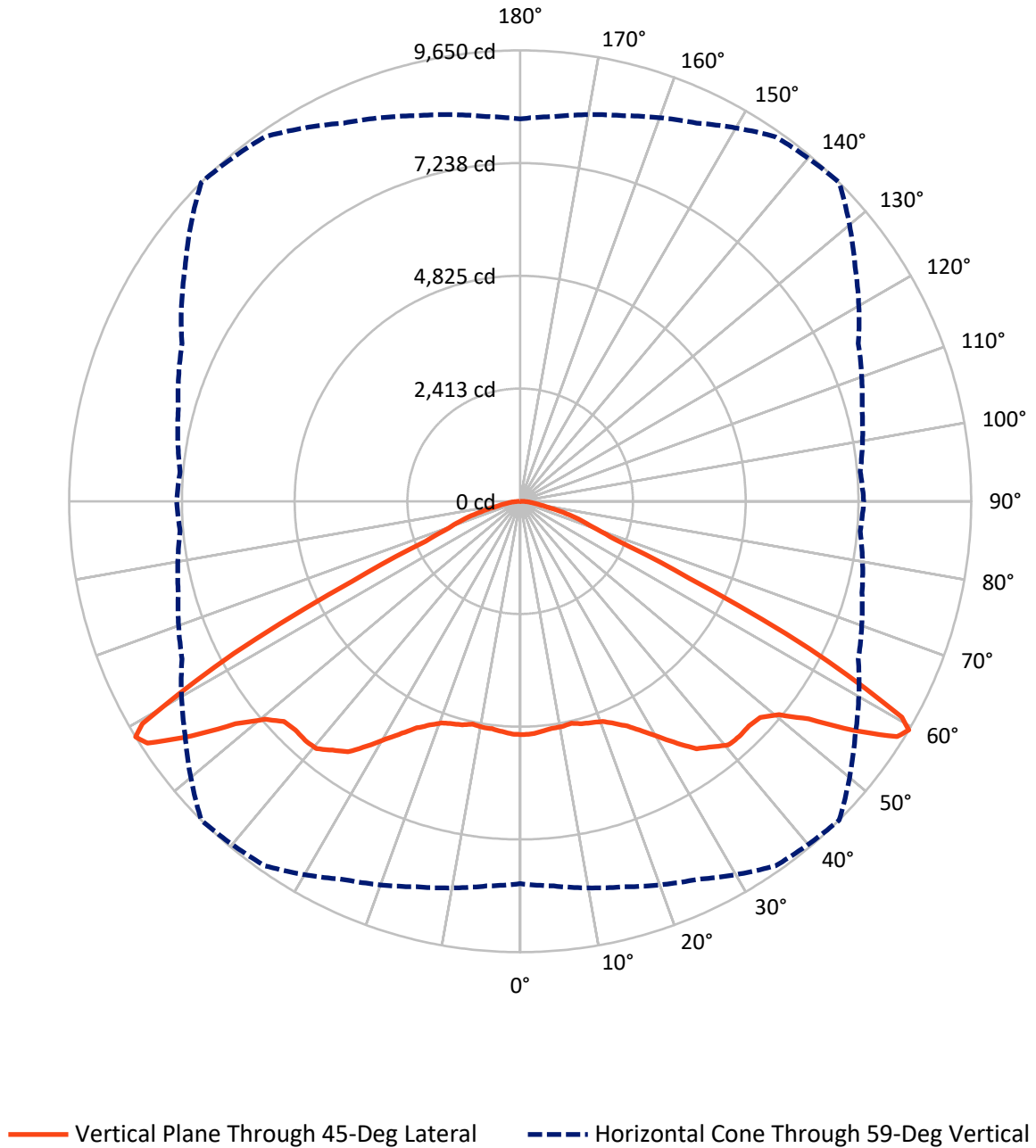
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12928.0	0.0	12928.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12928.0	0.0	12928.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25856.0	0.0	25856.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.8	1.8
10°-20°	1400.0	5.4
20°-30°	2444.6	9.5
30°-40°	3904.4	15.1
40°-50°	5318.6	20.6
50°-60°	7192.2	27.8
60°-70°	3944.2	15.3
70°-80°	1009.1	3.9
80°-90°	172.1	0.7
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°	25856.0	100.0
0°-180°	25856.0	100.0

**Coefficient of Utilization**



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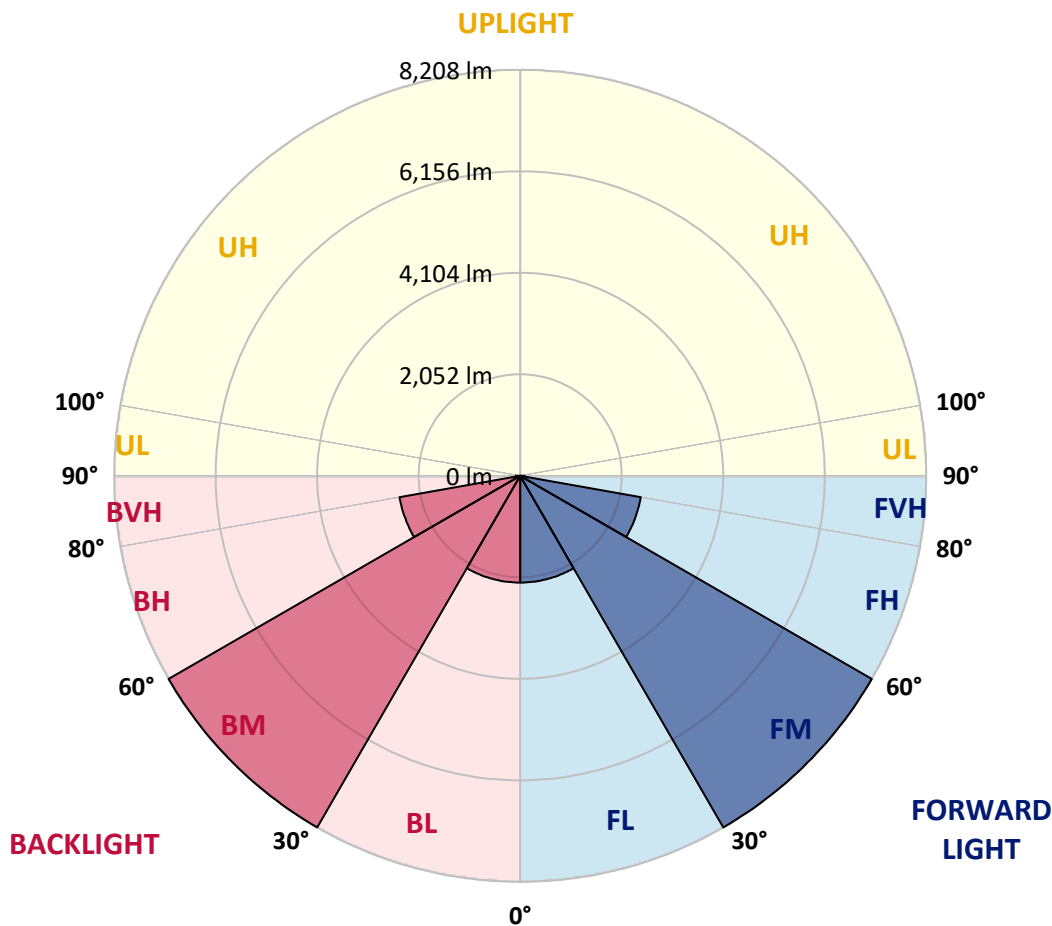
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2157.7	8.3			
FM (30°-60°)	8207.6	31.7			
FH (60°-80°)	2476.6	9.6			G2/5000
FVH (80°-90°)	86.0	0.3			G1/100
BL (0°-30°)	2157.7	8.3	B3/2500		
BM (30°-60°)	8207.6	31.7	B4/8500		
BH (60°-80°)	2476.6	9.6	B3/2500		G2/5000
BVH (80°-90°)	86.0	0.3			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°	90°
0°	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1
2.5°	4964.3	5000.8	4974.3	4997.5	4994.1	4984.2	4967.6	4957.7	4944.4	4964.3	4931.2
5°	4944.4	4974.3	5004.1	4964.3	4964.3	4944.4	4934.5	4914.6	4914.6	4911.3	4908.0
7.5°	4977.6	4947.7	4934.5	4941.1	4947.7	4904.7	4934.5	4894.7	4861.6	4884.8	4911.3
10°	4947.7	4961.0	4911.3	4934.5	4898.0	4904.7	4884.8	4911.3	4874.8	4874.8	4874.8
12.5°	4977.6	4941.1	4957.7	4941.1	4931.2	4874.8	4901.4	4871.5	4868.2	4901.4	4871.5
15°	5037.2	4977.6	4964.3	4931.2	4941.1	4941.1	4914.6	4917.9	4881.5	4901.4	4908.0
17.5°	5017.3	4984.2	4974.3	4934.5	4967.6	4977.6	4927.9	4894.7	4917.9	4914.6	4911.3
20°	5033.9	5047.2	5037.2	5043.9	5057.1	5030.6	4984.2	4937.8	4908.0	4951.1	4947.7
22.5°	5140.0	5126.7	5120.1	5113.4	5136.6	5163.2	5100.2	5027.3	5027.3	5057.1	5070.4
25°	5226.1	5222.8	5219.5	5249.3	5328.9	5328.9	5249.3	5156.5	5133.3	5153.2	5136.6
27.5°	5352.1	5388.5	5375.2	5428.3	5544.3	5570.8	5464.7	5355.4	5292.4	5269.2	5299.0
30°	5640.4	5597.3	5607.2	5663.6	5766.3	5852.5	5690.1	5574.1	5487.9	5484.6	5497.9
32.5°	5832.6	5865.7	5895.5	5948.6	6110.9	6177.2	5981.7	5792.8	5739.8	5710.0	5719.9
35°	6217.0	6187.2	6180.5	6233.6	6395.9	6505.3	6260.1	6094.4	6024.8	6091.1	6091.1
37.5°	6581.5	6498.7	6435.7	6505.3	6654.4	6667.7	6458.9	6369.4	6333.0	6409.2	6405.9
40°	6753.9	6747.2	6601.4	6641.2	6840.0	6859.9	6664.4	6558.3	6551.7	6651.1	6750.5
42.5°	6932.8	6869.8	6724.0	6750.5	6873.2	6879.8	6694.2	6664.4	6737.3	6833.4	6840.0
45°	6962.6	6909.6	6816.8	6750.5	6840.0	6859.9	6750.5	6770.4	6777.1	6893.0	6893.0
47.5°	7022.3	7015.7	6962.6	6912.9	6929.5	6912.9	6843.3	6873.2	6972.6	7028.9	7002.4
50°	7188.0	7118.4	7171.4	7128.3	7131.6	7178.0	7115.1	7144.9	7125.0	7075.3	7042.2
52.5°	7552.5	7519.4	7565.8	7595.6	7628.7	7734.8	7661.9	7502.8	7353.7	7221.1	7217.8
55°	8086.1	8109.3	8198.7	8351.2	8480.4	8649.4	8298.2	7917.1	7678.5	7469.7	7482.9
57.5°	8589.8	8573.2	8695.8	9043.8	9421.6	9507.8	8818.5	8275.0	7887.2	7754.7	7698.3
59°	8185.5	8265.0	8543.4	8931.1	9524.3	9650.3	8748.9	7983.3	7572.4	7304.0	7350.4
60°	7549.2	7579.0	7827.6	8367.8	9169.7	9385.1	8281.6	7532.6	6985.8	6830.1	6899.7
62.5°	5335.5	5312.3	5491.2	5932.0	6651.1	6942.8	6157.3	5630.4	5285.8	5113.4	5153.2
65°	2836.8	2942.8	3015.7	3290.8	3671.9	3980.1	3655.3	3426.6	3234.4	3091.9	3088.6
67.5°	1915.5	1902.2	1918.8	1981.8	2111.0	2197.2	2190.5	2074.5	2058.0	2031.5	2061.3
70°	1613.9	1607.3	1577.4	1577.4	1604.0	1623.8	1647.0	1660.3	1686.8	1719.9	1716.6
72.5°	1309.0	1292.4	1272.6	1262.6	1295.8	1305.7	1335.5	1348.8	1372.0	1368.7	1398.5
75°	864.9	864.9	888.1	914.7	924.6	944.5	947.8	987.6	987.6	994.2	967.7
77.5°	483.8	470.6	487.2	513.7	536.9	573.3	609.8	639.6	656.2	649.5	649.5
80°	281.7	281.7	298.3	328.1	357.9	391.0	417.6	440.8	457.3	450.7	437.4
82.5°	175.6	175.6	192.2	222.0	245.2	265.1	301.6	331.4	351.3	344.7	328.1
85°	89.5	89.5	109.4	129.2	159.1	172.3	169.0	155.8	152.4	135.9	135.9
87.5°	23.2	23.2	33.1	36.5	29.8	33.1	33.1	33.1	33.1	33.1	36.5
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)