

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: P459441

Luminaire Tested: **GALN-SA9A-735-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA9A-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 40505 lumens  
Efficiency: N/A  
Efficacy: 147.8 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

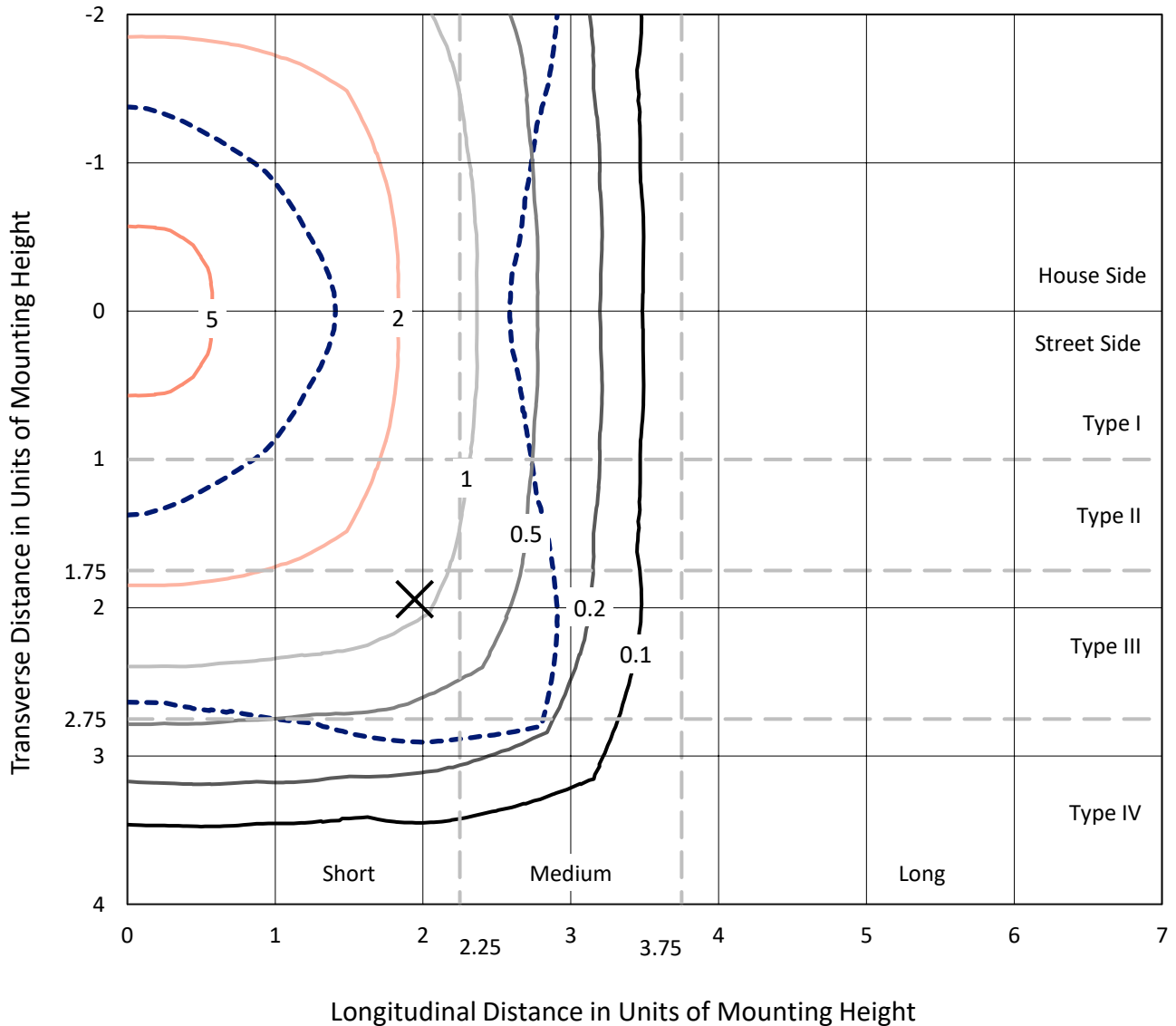
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

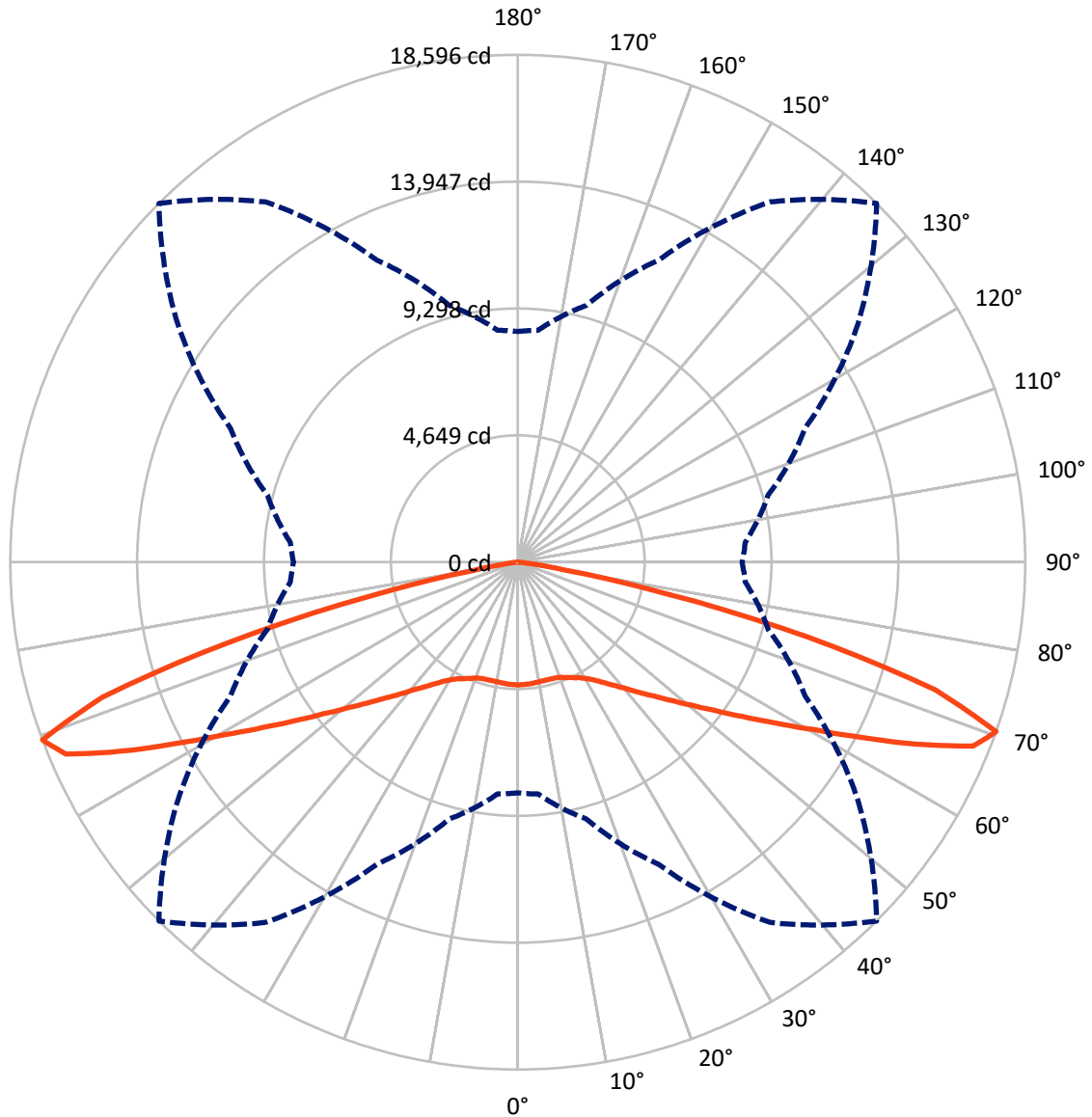
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	20252.5	0.0	20252.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20252.5	0.0	20252.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	40505.0	0.0	40505.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	426.5	1.1
10°-20°	1251.6	3.1
20°-30°	2140.6	5.3
30°-40°	3397.7	8.4
40°-50°	5481.3	13.5
50°-60°	8918.3	22.0
60°-70°	12928.3	31.9
70°-80°	5734.5	14.2
80°-90°	226.2	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°	40505.0	100.0
0°-180°	40505.0	100.0

**Coefficient of Utilization**



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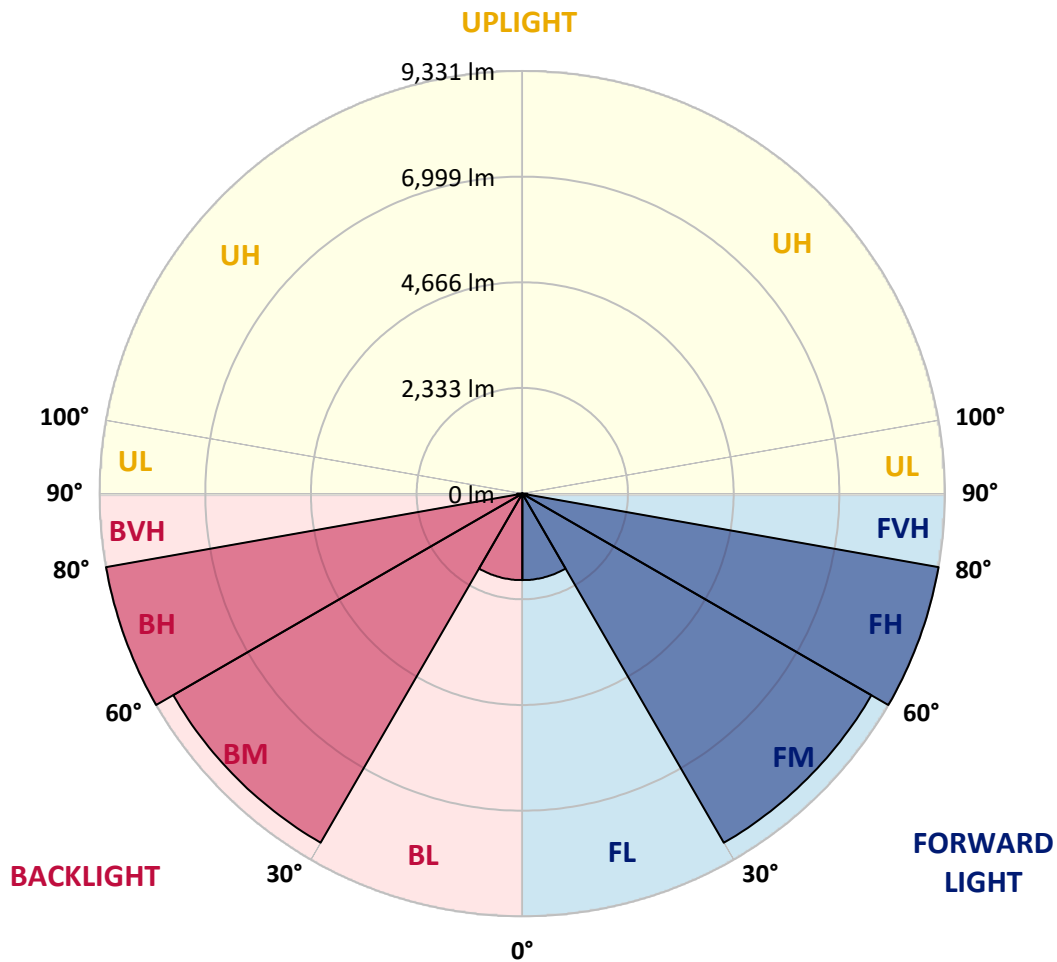
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.4	4.7			
FM (30°-60°)	8898.6	22.0			
FH (60°-80°)	9331.4	23.0			G4/12000
FVH (80°-90°)	113.1	0.3			G2/225
BL (0°-30°)	1909.4	4.7	B3/2500		
BM (30°-60°)	8898.6	22.0	B5		
BH (60°-80°)	9331.4	23.0	B5		G4/12000
BVH (80°-90°)	113.1	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°	90°
0°	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9	4497.9
2.5°	4497.9	4502.2	4495.8	4491.5	4489.4	4489.4	4487.2	4489.4	4502.2	4504.3	4497.9
5°	4485.1	4489.4	4487.2	4482.9	4480.8	4480.8	4478.7	4476.5	4487.2	4491.5	4489.4
7.5°	4468.0	4470.1	4468.0	4465.9	4468.0	4465.9	4459.5	4455.2	4463.7	4463.7	4461.6
10°	4438.1	4442.4	4440.3	4442.4	4446.7	4446.7	4438.1	4429.6	4431.7	4427.4	4427.4
12.5°	4401.8	4408.2	4410.4	4418.9	4429.6	4442.4	4423.2	4404.0	4399.7	4397.6	4395.4
15°	4378.3	4384.7	4393.3	4401.8	4421.0	4448.8	4421.0	4391.2	4382.6	4374.1	4369.8
17.5°	4371.9	4380.5	4393.3	4406.1	4431.7	4459.5	4436.0	4406.1	4384.7	4371.9	4367.7
20°	4389.0	4395.4	4414.6	4438.1	4474.4	4502.2	4478.7	4446.7	4414.6	4395.4	4389.0
22.5°	4423.2	4433.8	4457.3	4500.0	4551.3	4591.8	4559.8	4506.4	4455.2	4429.6	4421.0
25°	4497.9	4506.4	4534.2	4591.8	4651.6	4690.0	4655.9	4594.0	4523.5	4489.4	4478.7
27.5°	4611.0	4623.8	4653.7	4722.0	4771.1	4792.5	4769.0	4726.3	4675.1	4638.8	4630.2
30°	4771.1	4786.1	4830.9	4903.5	4935.5	4948.3	4937.6	4909.9	4873.6	4835.2	4826.6
32.5°	4986.7	4995.3	5046.5	5114.8	5144.7	5149.0	5136.2	5123.4	5063.6	4999.6	4995.3
35°	5228.0	5242.9	5304.8	5385.9	5413.7	5415.8	5390.2	5371.0	5300.6	5249.3	5249.3
37.5°	5548.2	5554.6	5614.4	5706.2	5736.0	5727.5	5714.7	5697.6	5622.9	5556.7	5558.9
40°	5923.9	5936.7	5987.9	6094.7	6094.7	6084.0	6092.5	6079.7	6005.0	5941.0	5943.1
42.5°	6370.1	6376.5	6438.4	6551.5	6543.0	6521.6	6530.2	6513.1	6466.1	6393.5	6367.9
45°	6846.1	6871.7	6978.5	7087.3	7070.2	7001.9	7036.1	7031.8	6989.1	6880.3	6886.7
47.5°	7420.3	7463.0	7565.5	7695.7	7676.5	7569.8	7608.2	7633.8	7574.0	7454.5	7433.2
50°	8067.2	8094.9	8246.5	8368.2	8351.1	8237.9	8325.5	8329.7	8180.3	8011.7	8011.7
52.5°	8756.7	8784.4	8989.4	9179.4	9190.0	9025.7	9096.1	9091.8	8848.5	8626.5	8583.8
55°	9529.5	9542.3	9807.0	10086.6	10146.4	9986.3	9994.8	9909.4	9593.5	9335.2	9311.7
57.5°	10327.9	10374.8	10667.3	11030.2	11207.4	11109.2	11064.3	10835.9	10530.7	10233.9	10219.0
60°	11211.6	11213.8	11593.8	12022.8	12381.5	12447.6	12264.1	11958.8	11563.9	11171.1	11154.0
62.5°	11824.3	11916.1	12396.4	13122.2	13764.8	14136.2	13651.6	13011.2	12234.2	11600.2	11536.1
65°	11950.3	12012.2	12744.4	13974.0	15286.8	16087.4	14966.6	13604.7	12279.0	11433.6	11391.0
67.5°	10932.0	10998.2	11984.4	13871.5	16354.2	17995.8	15820.5	13318.6	11519.0	10473.0	10389.8
70°	8455.7	8530.4	9749.3	12210.7	16117.3	18595.7	15212.1	11617.2	9499.6	8370.3	8218.7
72.5°	4495.8	4771.1	5812.9	8381.0	13081.7	16010.5	12473.3	8477.0	6126.7	5008.1	4807.4
75°	1641.6	1675.8	2256.4	3716.6	7610.3	10978.9	7902.8	4043.2	2324.7	1795.3	1703.5
77.5°	678.8	676.7	742.9	1122.9	2764.5	5622.9	3084.7	1186.9	740.8	685.3	676.7
80°	401.3	401.3	441.9	467.5	727.9	1697.1	813.3	529.4	444.0	405.6	412.0
82.5°	179.3	190.0	279.7	294.6	352.2	465.4	392.8	337.3	290.3	200.7	181.5
85°	98.2	85.4	147.3	153.7	168.6	172.9	185.7	183.6	168.6	98.2	100.3
87.5°	19.2	23.5	42.7	32.0	36.3	32.0	42.7	59.8	61.9	34.2	27.8
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)