

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: P459470

Luminaire Tested: **GALN-SA9B-735-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459470  
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-SA9B-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 50399 lumens  
Efficiency: N/A  
Efficacy: 138.5 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

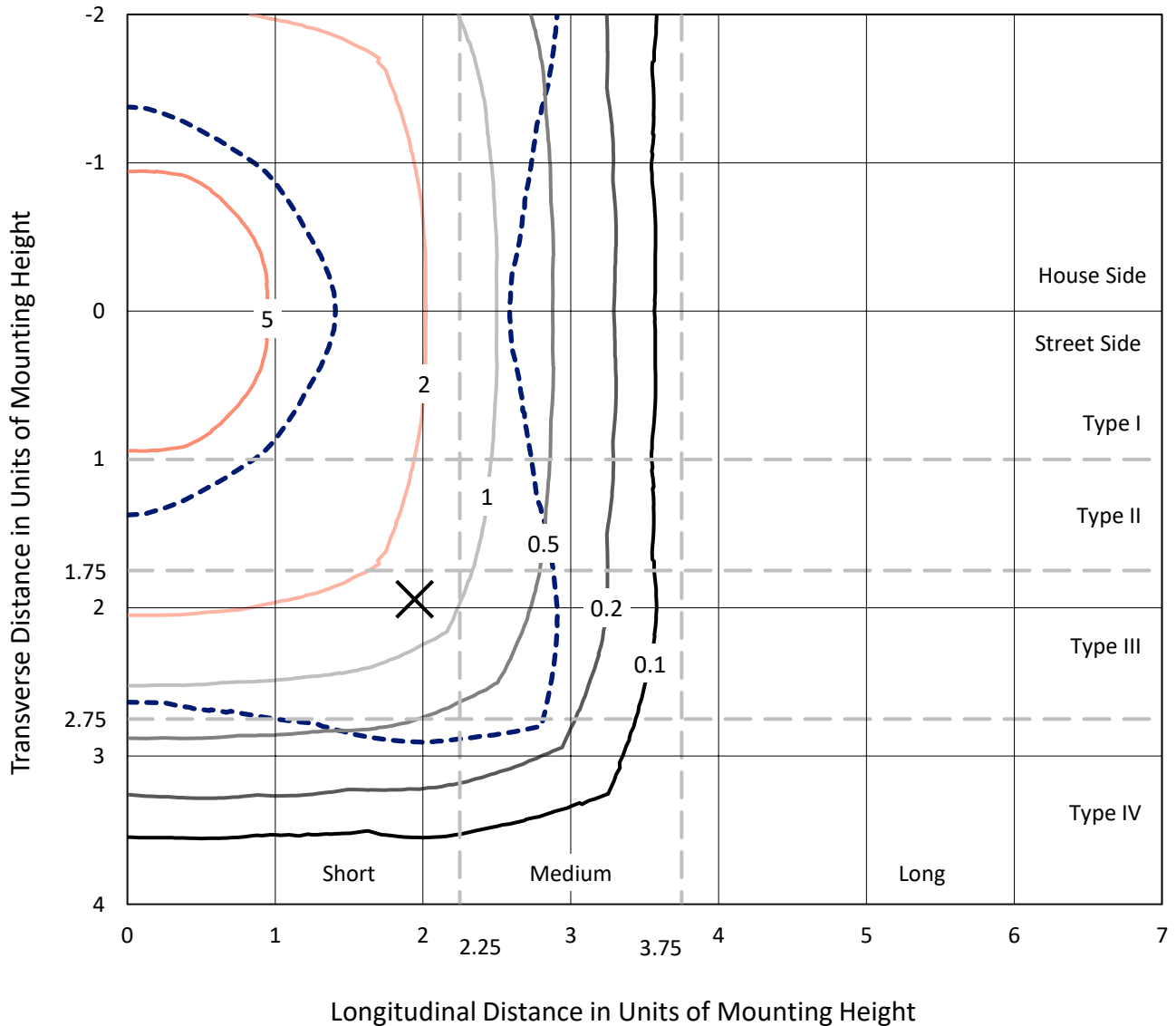
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

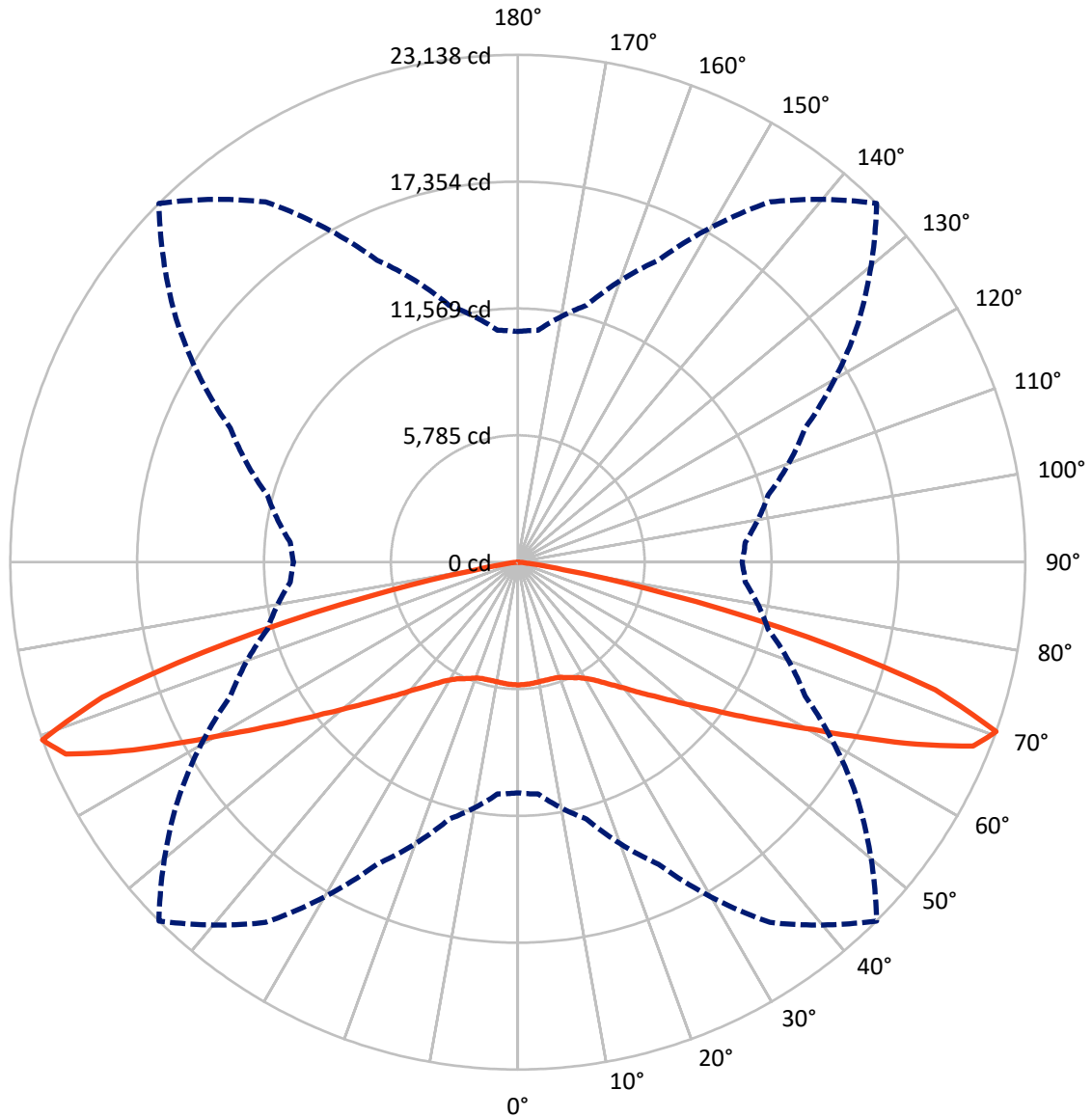
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	25199.5	0.0	25199.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25199.5	0.0	25199.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	50399.0	0.0	50399.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	530.7	1.1
10°-20°	1557.4	3.1
20°-30°	2663.5	5.3
30°-40°	4227.6	8.4
40°-50°	6820.2	13.5
50°-60°	11096.7	22.0
60°-70°	16086.2	31.9
70°-80°	7135.3	14.2
80°-90°	281.4	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°	50399.0	100.0
0°-180°	50399.0	100.0

**Coefficient of Utilization**



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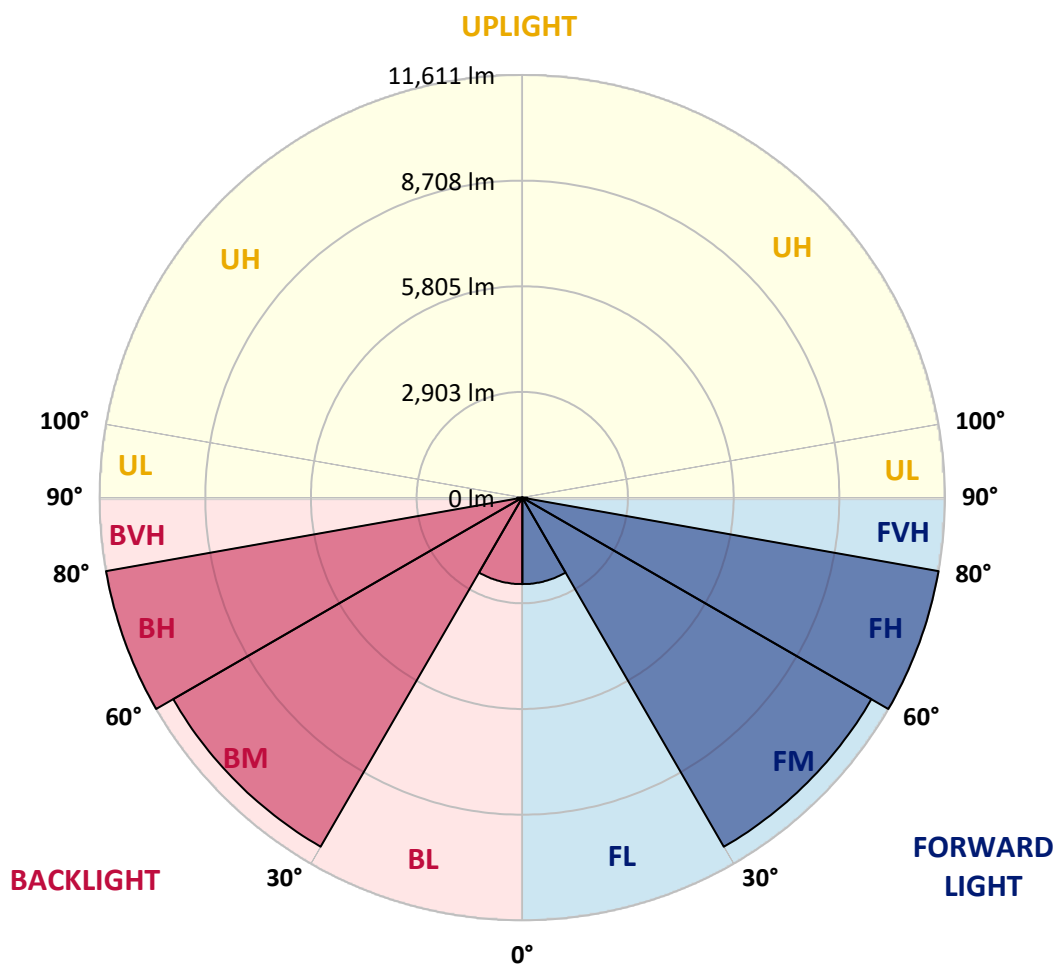
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2375.8	4.7			
FM (30°-60°)	11072.3	22.0			
FH (60°-80°)	11610.7	23.0			G4/12000
FVH (80°-90°)	140.7	0.3			G2/225
BL (0°-30°)	2375.8	4.7	B3/2500		
BM (30°-60°)	11072.3	22.0	B5		
BH (60°-80°)	11610.7	23.0	B5		G4/12000
BVH (80°-90°)	140.7	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°	5596.6	5596.6	5596.6	5596.6	5596.6	5596.6	5596.6	5596.6	5596.6	5596.6	5596.6
2.5°	5596.6	5601.9	5593.9	5588.6	5585.9	5585.9	5583.3	5585.9	5601.9	5604.5	5596.6
5°	5580.6	5585.9	5583.3	5578.0	5575.3	5575.3	5572.7	5570.0	5583.3	5588.6	5585.9
7.5°	5559.4	5562.0	5559.4	5556.7	5559.4	5556.7	5548.8	5543.4	5554.1	5554.1	5551.4
10°	5522.2	5527.5	5524.9	5527.5	5532.8	5532.8	5522.2	5511.6	5514.2	5508.9	5508.9
12.5°	5477.0	5485.0	5487.7	5498.3	5511.6	5527.5	5503.6	5479.7	5474.4	5471.7	5469.1
15°	5447.8	5455.8	5466.4	5477.0	5500.9	5535.5	5500.9	5463.8	5453.1	5442.5	5437.2
17.5°	5439.9	5450.5	5466.4	5482.4	5514.2	5548.8	5519.5	5482.4	5455.8	5439.9	5434.5
20°	5461.1	5469.1	5493.0	5522.2	5567.4	5601.9	5572.7	5532.8	5493.0	5469.1	5461.1
22.5°	5503.6	5516.9	5546.1	5599.2	5663.0	5713.4	5673.6	5607.2	5543.4	5511.6	5500.9
25°	5596.6	5607.2	5641.7	5713.4	5787.8	5835.6	5793.1	5716.1	5628.4	5585.9	5572.7
27.5°	5737.3	5753.3	5790.5	5875.5	5936.6	5963.1	5933.9	5880.8	5817.0	5771.9	5761.3
30°	5936.6	5955.2	6010.9	6101.2	6141.1	6157.0	6143.7	6109.2	6064.1	6016.2	6005.6
32.5°	6204.8	6215.5	6279.2	6364.2	6401.4	6406.7	6390.8	6374.8	6300.5	6220.8	6215.5
35°	6505.0	6523.6	6600.6	6701.5	6736.1	6738.7	6706.9	6682.9	6595.3	6531.5	6531.5
37.5°	6903.4	6911.4	6985.8	7100.0	7137.2	7126.5	7110.6	7089.3	6996.4	6914.0	6916.7
40°	7370.9	7386.8	7450.6	7583.4	7583.4	7570.1	7580.7	7564.8	7471.8	7392.1	7394.8
42.5°	7926.0	7934.0	8011.0	8151.8	8141.2	8114.6	8125.3	8104.0	8045.6	7955.3	7923.4
45°	8518.4	8550.2	8683.1	8818.5	8797.3	8712.3	8754.8	8749.5	8696.3	8560.9	8568.8
47.5°	9232.9	9286.0	9413.5	9575.5	9551.6	9418.8	9466.6	9498.5	9424.1	9275.4	9248.8
50°	10037.7	10072.2	10260.8	10412.2	10391.0	10250.2	10359.1	10364.4	10178.5	9968.6	9968.6
52.5°	10895.7	10930.2	11185.2	11421.6	11434.9	11230.3	11318.0	11312.7	11009.9	10733.6	10680.5
55°	11857.2	11873.1	12202.5	12550.5	12624.8	12425.6	12436.2	12330.0	11936.9	11615.5	11586.3
57.5°	12850.6	12909.0	13272.9	13724.5	13944.9	13822.8	13767.0	13482.8	13102.9	12733.7	12715.1
60°	13950.3	13952.9	14425.7	14959.6	15405.8	15488.2	15259.8	14879.9	14388.5	13899.8	13878.5
62.5°	14712.6	14826.8	15424.4	16327.5	17127.0	17589.2	16986.3	16189.4	15222.6	14433.7	14354.0
65°	14869.3	14946.3	15857.4	17387.4	19020.9	20017.0	18622.5	16927.8	15278.3	14226.5	14173.4
67.5°	13602.3	13684.6	14911.8	17259.9	20349.0	22391.6	19685.0	16571.9	14332.7	13031.2	12927.6
70°	10521.1	10614.1	12130.8	15193.4	20054.2	23138.0	18927.9	14454.9	11820.0	10414.9	10226.3
72.5°	5593.9	5936.6	7232.8	10428.2	16277.1	19921.4	15520.1	10547.7	7623.2	6231.4	5981.7
75°	2042.6	2085.1	2807.6	4624.4	9469.3	13660.7	9833.2	5030.8	2892.6	2233.8	2119.6
77.5°	844.7	842.0	924.4	1397.2	3439.8	6996.4	3838.2	1476.8	921.7	852.6	842.0
80°	499.4	499.4	549.8	581.7	905.8	2111.7	1012.0	658.7	552.5	504.7	512.6
82.5°	223.1	236.4	348.0	366.6	438.3	579.0	488.7	419.7	361.2	249.7	225.8
85°	122.2	106.2	183.3	191.2	209.8	215.2	231.1	228.4	209.8	122.2	124.8
87.5°	23.9	29.2	53.1	39.8	45.2	39.8	53.1	74.4	77.0	42.5	34.5
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)