

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: P533811

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533811  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-735-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28839 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

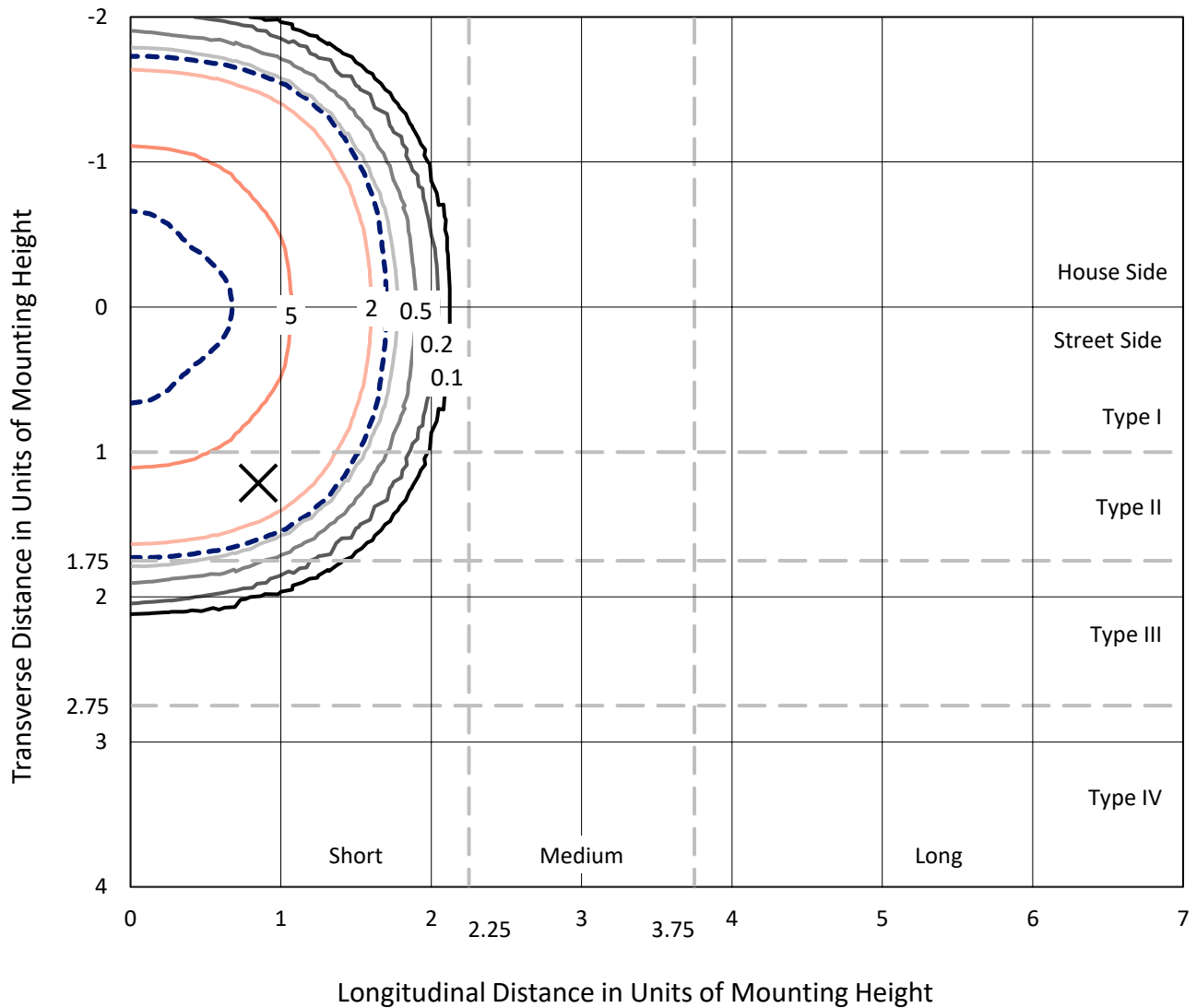
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

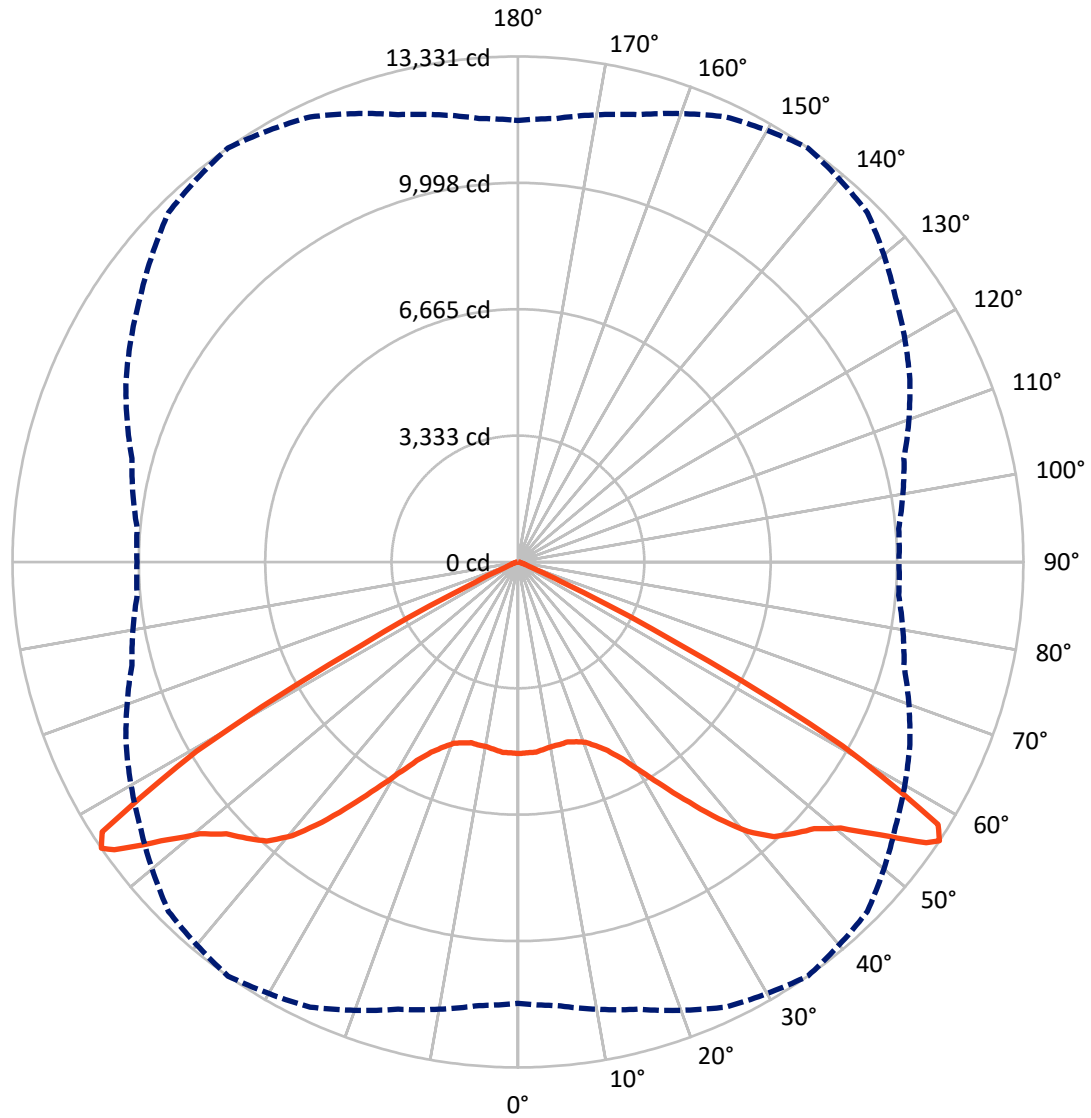
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14419.5	0.0	14419.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14419.5	0.0	14419.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	28839.0	0.0	28839.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.9	1.6
10°-20°	1386.5	4.8
20°-30°	2510.8	8.7
30°-40°	4656.0	16.1
40°-50°	7642.5	26.5
50°-60°	9845.8	34.1
60°-70°	2169.9	7.5
70°-80°	125.9	0.4
80°-90°	26.5	0.1
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°	28839.0	100.0
0°-180°	28839.0	100.0

**Coefficient of Utilization**

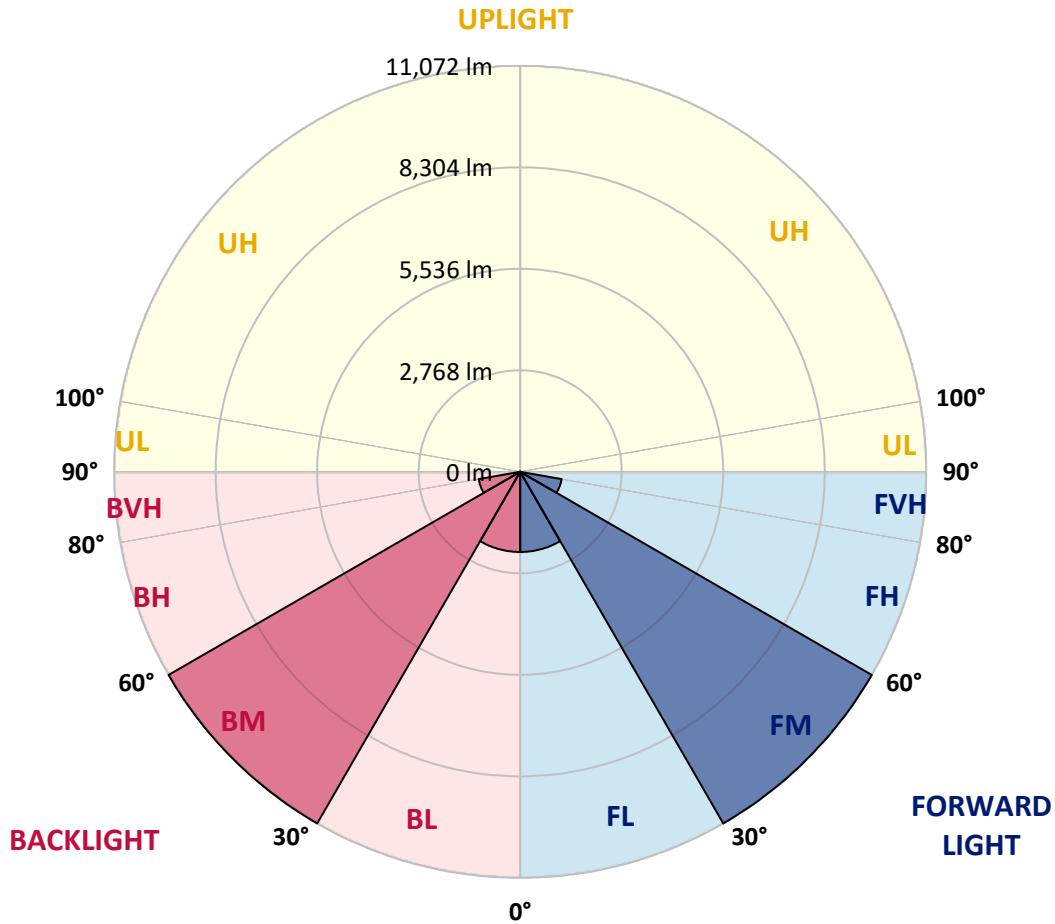


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2186.2	7.6			
FM (30°-60°)	11072.2	38.4			
FH (60°-80°)	1147.9	4.0			G1/1800
FVH (80°-90°)	13.3	0.0			G1/100
BL (0°-30°)	2186.2	7.6	B3/2500		
BM (30°-60°)	11072.2	38.4	B5		
BH (60°-80°)	1147.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	13.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5053.2	5053.2	5053.2	5053.2	5053.2	5053.2	5053.2	5053.2	5053.2	5053.2	5053.2
2.5°	5063.7	5063.7	5068.9	5074.1	5037.5	5021.9	5027.1	5016.6	5011.4	5027.1	5027.1
5°	5048.0	5048.0	5032.3	5037.5	5037.5	4990.5	4990.5	5001.0	5001.0	4969.6	4959.2
7.5°	5006.2	4995.7	4974.8	5001.0	4985.3	4985.3	4948.7	4922.6	4912.1	4933.0	4912.1
10°	4917.3	4922.6	4943.5	4953.9	4943.5	4974.8	4912.1	4875.5	4839.0	4823.3	4823.3
12.5°	4875.5	4906.9	4875.5	4901.7	4938.2	4912.1	4875.5	4849.4	4797.2	4776.3	4776.3
15°	4870.3	4891.2	4901.7	4938.2	4922.6	4933.0	4859.9	4828.5	4750.1	4713.5	4697.9
17.5°	4865.1	4891.2	4906.9	4974.8	4985.3	4990.5	4933.0	4839.0	4771.0	4734.4	4697.9
20°	4922.6	4933.0	4964.4	5032.3	5074.1	5147.3	5042.8	4943.5	4797.2	4755.4	4739.7
22.5°	4995.7	5048.0	5079.3	5152.5	5262.2	5324.9	5189.1	5063.7	4912.1	4859.9	4797.2
25°	5230.9	5220.4	5272.7	5424.2	5513.1	5560.1	5450.4	5267.5	5068.9	5006.2	5016.6
27.5°	5523.5	5534.0	5581.0	5748.2	5878.9	5952.0	5821.4	5581.0	5387.7	5283.1	5272.7
30°	5905.0	5894.5	5946.8	6171.5	6406.7	6516.4	6286.5	6004.3	5816.2	5680.3	5711.6
32.5°	6307.4	6312.6	6458.9	6662.7	7044.2	7258.4	6887.4	6542.5	6260.3	6166.3	6119.2
35°	6903.1	6929.2	7044.2	7357.7	7781.0	8058.0	7650.4	7237.5	6913.5	6741.1	6762.0
37.5°	7639.9	7613.8	7807.1	8146.8	8591.0	8794.8	8449.9	7979.6	7650.4	7535.4	7608.6
40°	8423.8	8449.9	8549.2	8857.5	9353.9	9489.8	8977.7	8721.6	8434.2	8376.7	8465.6
42.5°	9207.6	9191.9	9265.1	9542.1	9902.6	9808.6	9505.5	9353.9	9150.1	9035.2	9155.4
45°	9782.4	9756.3	9892.2	10080.3	10210.9	10033.3	9897.4	9845.1	9740.6	9615.2	9725.0
47.5°	10341.6	10320.7	10451.3	10503.6	10514.0	10278.9	10305.0	10399.1	10137.8	9876.5	10001.9
50°	10817.1	10780.5	10942.5	11057.5	11031.4	10655.1	10749.2	10655.1	10247.5	9939.2	9892.2
52.5°	11611.4	11627.1	11799.5	12008.6	11945.9	11632.3	11496.5	11067.9	10545.4	10268.4	10106.4
55°	12113.1	12034.7	12332.6	12996.2	13069.4	12745.4	12144.4	11512.1	10728.3	10388.6	10346.8
56°	11642.8	11742.1	12212.4	12954.4	13330.7	13032.8	12160.1	11402.4	10540.2	10080.3	10048.9
57.5°	10446.1	10393.8	11031.4	12045.1	13069.4	12944.0	11731.6	10618.5	9615.2	9097.9	9035.2
60°	6500.7	6652.3	7211.4	8465.6	9834.7	9897.4	8695.5	7739.2	6568.7	6108.8	6218.5
62.5°	2544.9	2414.3	2764.4	3699.8	4640.4	4849.4	4394.8	3652.7	2999.5	2544.9	2513.5
65°	590.5	574.8	648.0	893.6	1248.9	1447.5	1374.3	987.6	726.4	689.8	637.5
67.5°	334.4	334.4	318.8	318.8	350.1	371.0	355.3	350.1	365.8	381.5	376.2
70°	235.2	229.9	219.5	224.7	214.3	214.3	229.9	256.1	277.0	277.0	282.2
72.5°	141.1	141.1	141.1	156.8	156.8	156.8	172.4	193.3	198.6	193.3	188.1
75°	62.7	62.7	73.2	88.8	99.3	104.5	120.2	130.6	141.1	130.6	120.2
77.5°	15.7	15.7	26.1	36.6	47.0	57.5	78.4	94.1	99.3	94.1	78.4
80°	5.2	5.2	10.5	26.1	47.0	57.5	78.4	83.6	88.8	78.4	62.7
82.5°	5.2	5.2	10.5	26.1	36.6	47.0	62.7	73.2	78.4	67.9	62.7
85°	0.0	5.2	10.5	20.9	31.4	41.8	41.8	31.4	26.1	15.7	20.9
87.5°	0.0	0.0	5.2	5.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)