

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: P531709

Luminaire Tested: **GALN-SA7A-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-735-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15477 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

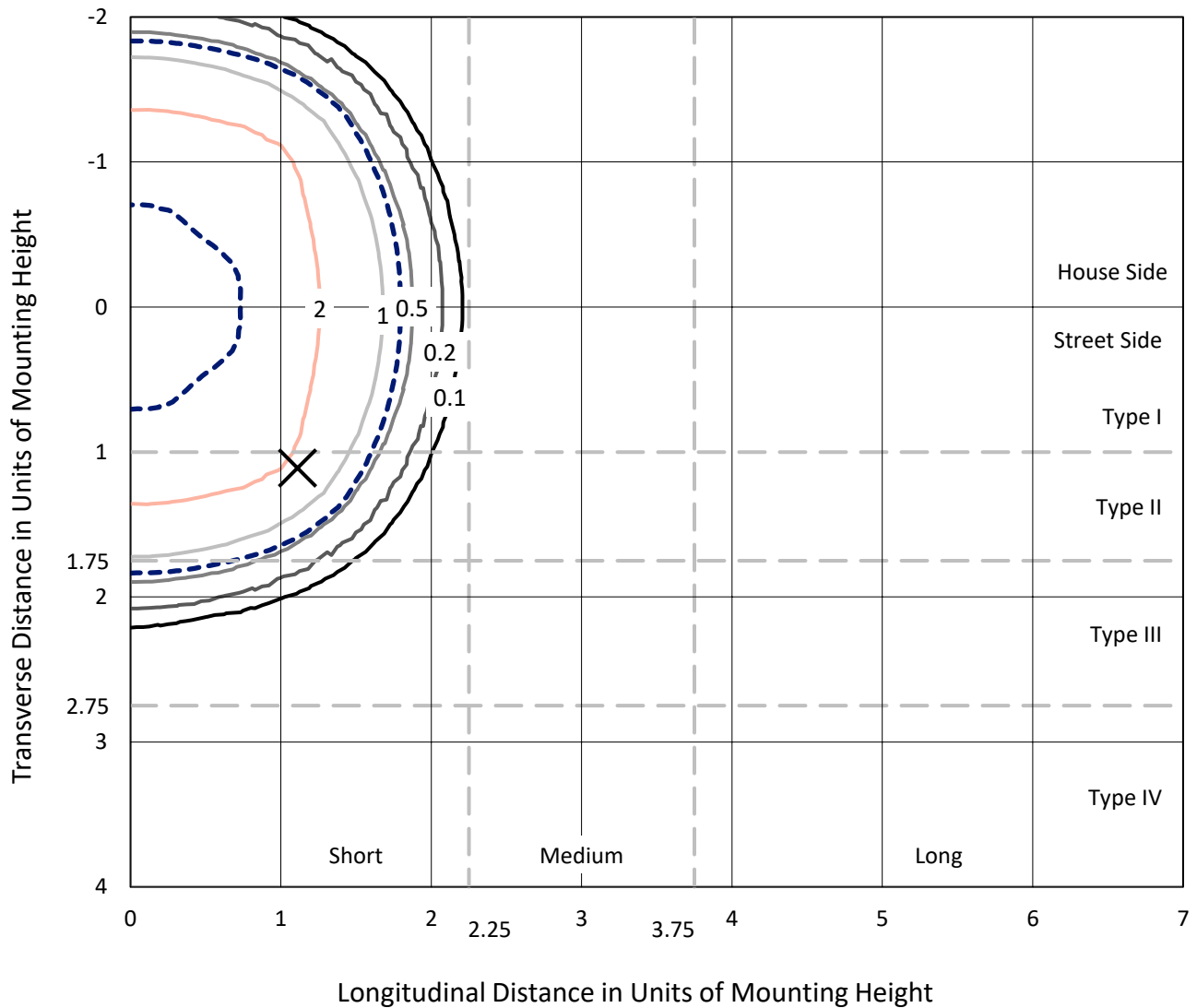
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

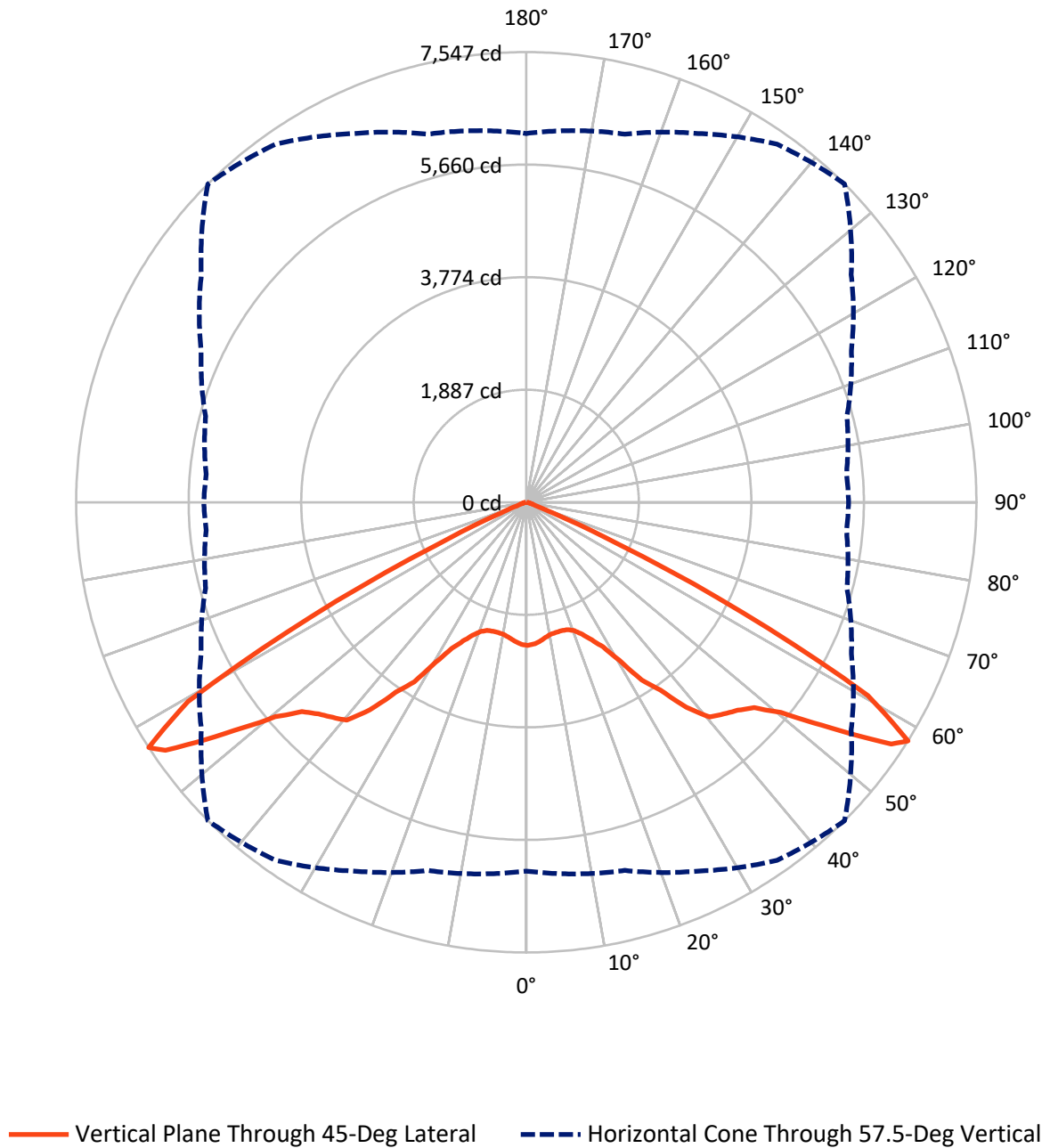
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	7738.5	0.0	7738.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7738.5	0.0	7738.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15477.0	0.0	15477.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.6	1.4
10°-20°	637.7	4.1
20°-30°	1177.0	7.6
30°-40°	2314.8	15.0
40°-50°	3770.1	24.4
50°-60°	5376.7	34.7
60°-70°	1861.5	12.0
70°-80°	99.9	0.6
80°-90°	18.8	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°	15477.0	100.0
0°-180°	15477.0	100.0

**Coefficient of Utilization**



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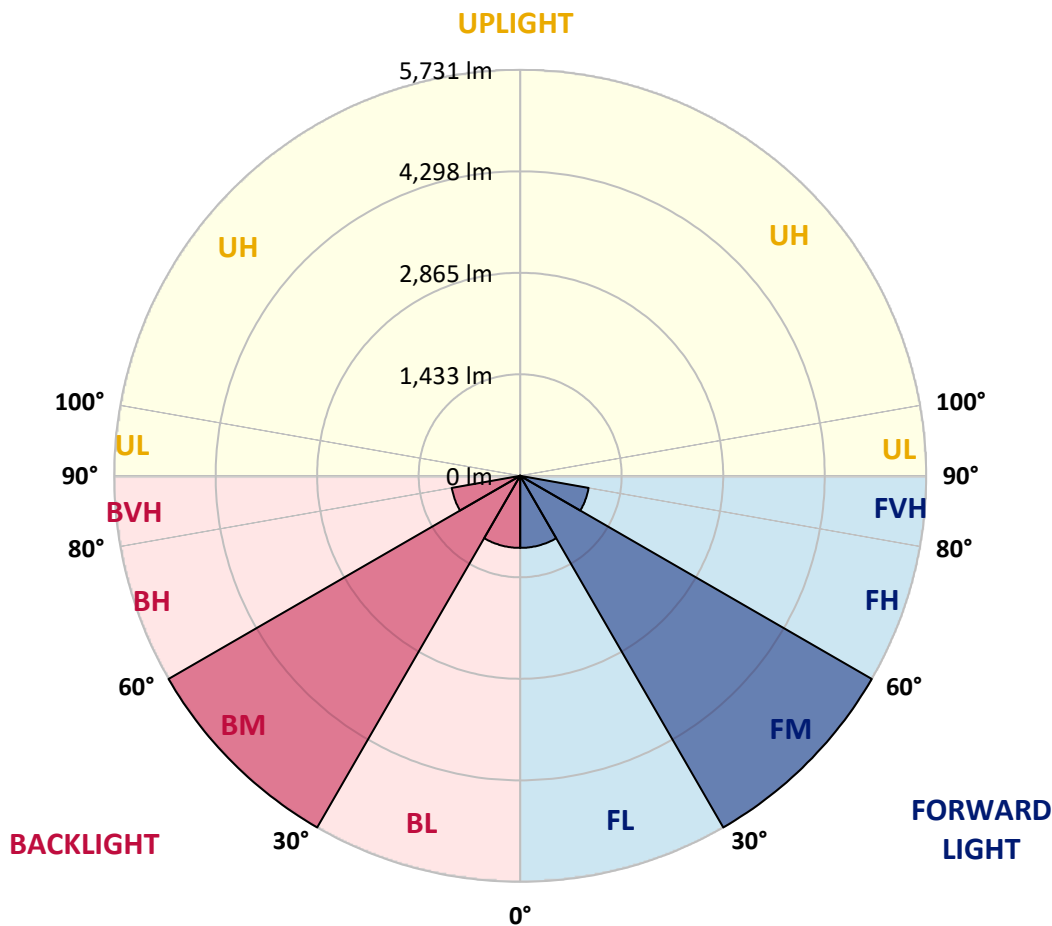
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.6	6.6			
FM (30°-60°)	5730.8	37.0			
FH (60°-80°)	980.7	6.3			G1/1800
FVH (80°-90°)	9.4	0.1			G0/10
BL (0°-30°)	1017.6	6.6	B3/2500		
BM (30°-60°)	5730.8	37.0	B4/8500		
BH (60°-80°)	980.7	6.3	B2/1000		G1/1800
BVH (80°-90°)	9.4	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2400.6	2400.6	2400.6	2400.6	2400.6	2400.6	2400.6	2400.6	2400.6	2400.6	2400.6
2.5°	2394.2	2407.1	2391.0	2384.5	2381.3	2381.3	2371.6	2371.6	2368.4	2371.6	2358.7
5°	2355.5	2368.4	2368.4	2365.2	2345.8	2342.6	2332.9	2326.4	2329.7	2316.8	2326.4
7.5°	2316.8	2326.4	2313.5	2310.3	2303.8	2290.9	2287.7	2258.7	2261.9	2261.9	2268.4
10°	2310.3	2307.1	2287.7	2271.6	2252.2	2249.0	2239.3	2232.9	2232.9	2229.6	2239.3
12.5°	2310.3	2294.2	2290.9	2255.4	2223.2	2236.1	2210.3	2194.1	2216.7	2223.2	2236.1
15°	2307.1	2323.2	2268.4	2252.2	2229.6	2232.9	2210.3	2194.1	2207.0	2213.5	2223.2
17.5°	2326.4	2316.8	2300.6	2268.4	2258.7	2245.8	2216.7	2203.8	2203.8	2220.0	2223.2
20°	2378.1	2352.2	2320.0	2303.8	2313.5	2297.4	2261.9	2213.5	2226.4	2239.3	2249.0
22.5°	2426.5	2407.1	2384.5	2374.8	2429.7	2403.9	2342.6	2287.7	2268.4	2290.9	2307.1
25°	2520.0	2520.0	2478.1	2491.0	2552.3	2555.5	2484.5	2387.7	2374.8	2384.5	2391.0
27.5°	2710.4	2720.1	2684.6	2697.5	2723.3	2745.9	2684.6	2603.9	2574.9	2571.7	2581.3
30°	2916.9	2936.3	2933.0	2987.9	3062.1	3075.0	2984.7	2852.4	2765.3	2749.1	2762.0
32.5°	3188.0	3197.6	3191.2	3255.7	3455.8	3549.3	3313.8	3126.6	3010.5	3039.5	3010.5
35°	3697.8	3688.1	3617.1	3630.0	3794.6	3862.3	3636.5	3517.1	3462.2	3520.3	3507.4
37.5°	4136.6	4101.1	4043.0	4126.9	4297.9	4359.2	4123.7	3914.0	3813.9	3910.7	3952.7
40°	4507.7	4417.3	4336.6	4420.5	4649.6	4733.5	4388.3	4217.3	4178.5	4249.5	4339.9
42.5°	4820.6	4762.6	4656.1	4662.5	4814.2	4852.9	4575.4	4475.4	4436.7	4549.6	4594.8
45°	5043.3	4988.4	4888.4	4882.0	4998.1	4972.3	4723.8	4656.1	4678.7	4752.9	4775.5
47.5°	5156.2	5185.3	5127.2	5143.3	5204.6	5143.3	4946.5	4946.5	4894.9	4940.0	4917.4
50°	5482.1	5391.8	5466.0	5466.0	5530.5	5537.0	5340.1	5269.2	5130.4	5053.0	5053.0
52.5°	5862.9	5869.3	5898.4	6004.8	6114.5	6208.1	5927.4	5624.1	5391.8	5291.7	5278.8
55°	6175.9	6240.4	6356.5	6556.6	6872.8	7001.9	6517.9	5975.8	5691.9	5537.0	5504.7
56°	6346.9	6285.6	6485.6	6759.9	7172.9	7340.7	6614.7	6046.8	5733.8	5559.6	5556.3
57.5°	6182.3	6250.1	6388.8	6821.2	7327.8	7547.2	6650.2	6014.5	5566.0	5388.5	5404.7
60°	4882.0	4946.5	5133.6	5617.6	6411.4	6582.4	5627.3	4959.4	4559.3	4304.4	4307.6
62.5°	2762.0	2810.4	2955.6	3404.1	3897.8	4062.4	3507.4	3062.1	2784.6	2642.6	2597.5
65°	1016.4	997.0	1019.6	1248.7	1552.0	1690.8	1458.5	1232.6	1087.4	1035.8	1016.4
67.5°	380.7	351.7	329.1	351.7	442.1	467.9	429.1	358.2	335.6	345.3	351.7
70°	235.5	222.6	177.5	167.8	164.6	161.3	171.0	180.7	206.5	242.0	248.5
72.5°	164.6	154.9	125.8	119.4	112.9	109.7	125.8	138.7	161.3	187.1	190.4
75°	64.5	67.8	64.5	71.0	74.2	77.4	90.3	100.0	109.7	109.7	106.5
77.5°	12.9	12.9	19.4	25.8	32.3	41.9	61.3	71.0	74.2	71.0	61.3
80°	0.0	0.0	6.5	12.9	25.8	35.5	54.9	61.3	67.8	61.3	48.4
82.5°	0.0	0.0	6.5	16.1	25.8	32.3	51.6	64.5	74.2	67.8	51.6
85°	0.0	0.0	6.5	12.9	19.4	22.6	22.6	16.1	16.1	9.7	6.5
87.5°	0.0	0.0	0.0	0.0	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)