

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: P458982

Luminaire Tested: **GALN-SA5A-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22011 lumens  
Efficiency: N/A  
Efficacy: 142.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

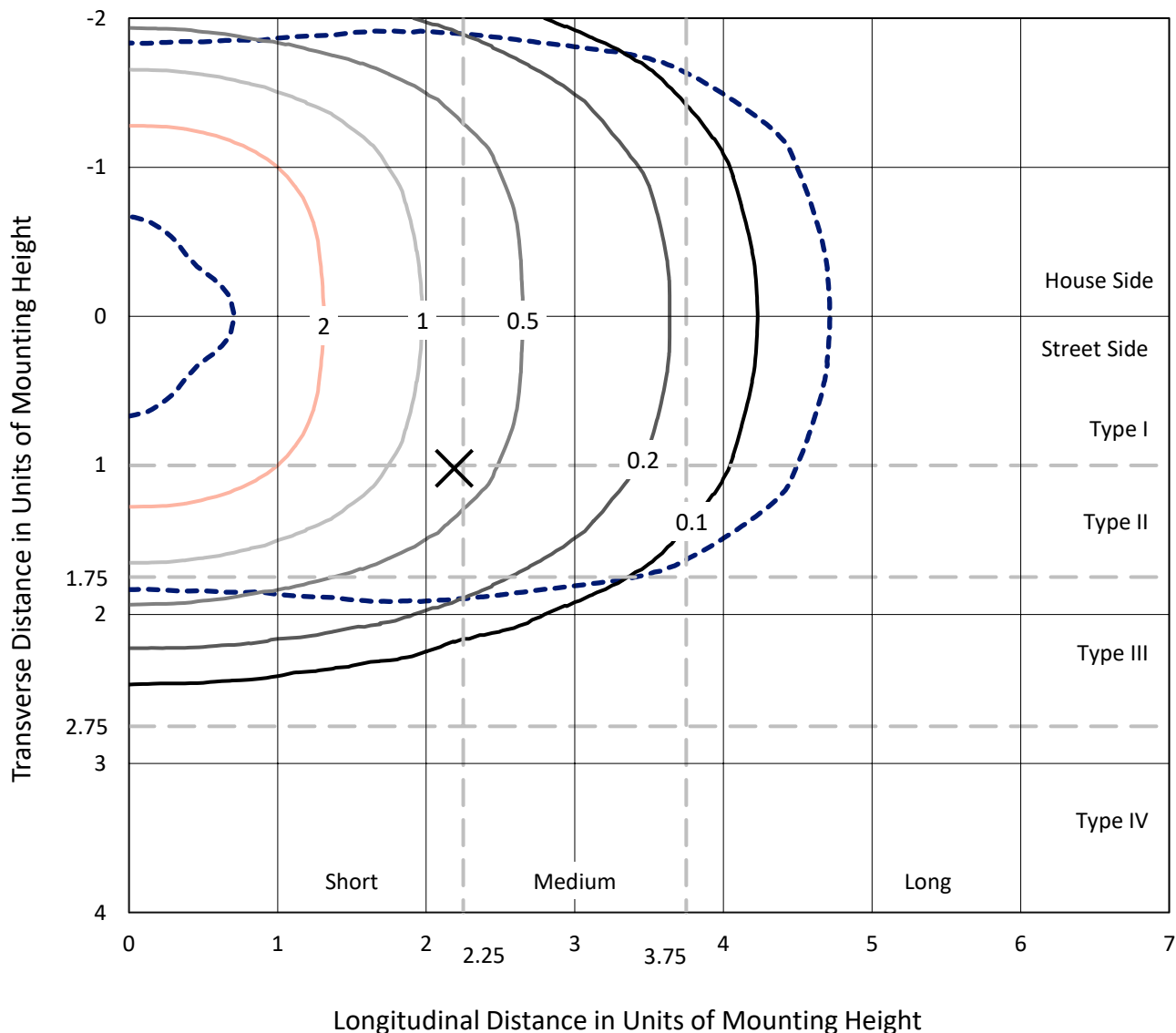
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

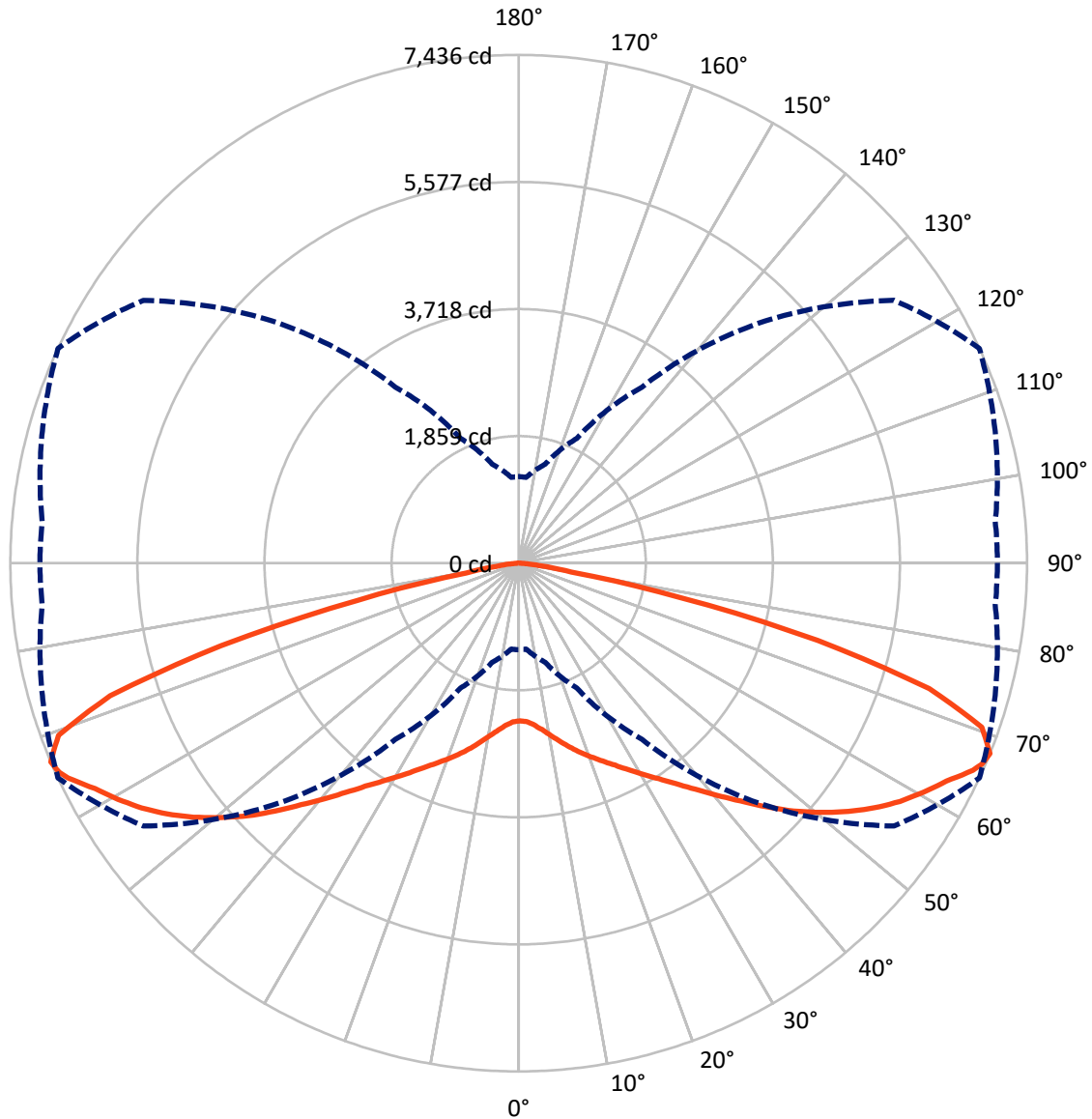
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11005.5	0.0	11005.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11005.5	0.0	11005.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22011.0	0.0	22011.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.4	1.0
10°-20°	761.0	3.5
20°-30°	1488.6	6.8
30°-40°	2531.9	11.5
40°-50°	4007.3	18.2
50°-60°	5313.6	24.1
60°-70°	5012.3	22.8
70°-80°	2477.9	11.3
80°-90°	191.0	0.9
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°	22011.0	100.0
0°-180°	22011.0	100.0

**Coefficient of Utilization**



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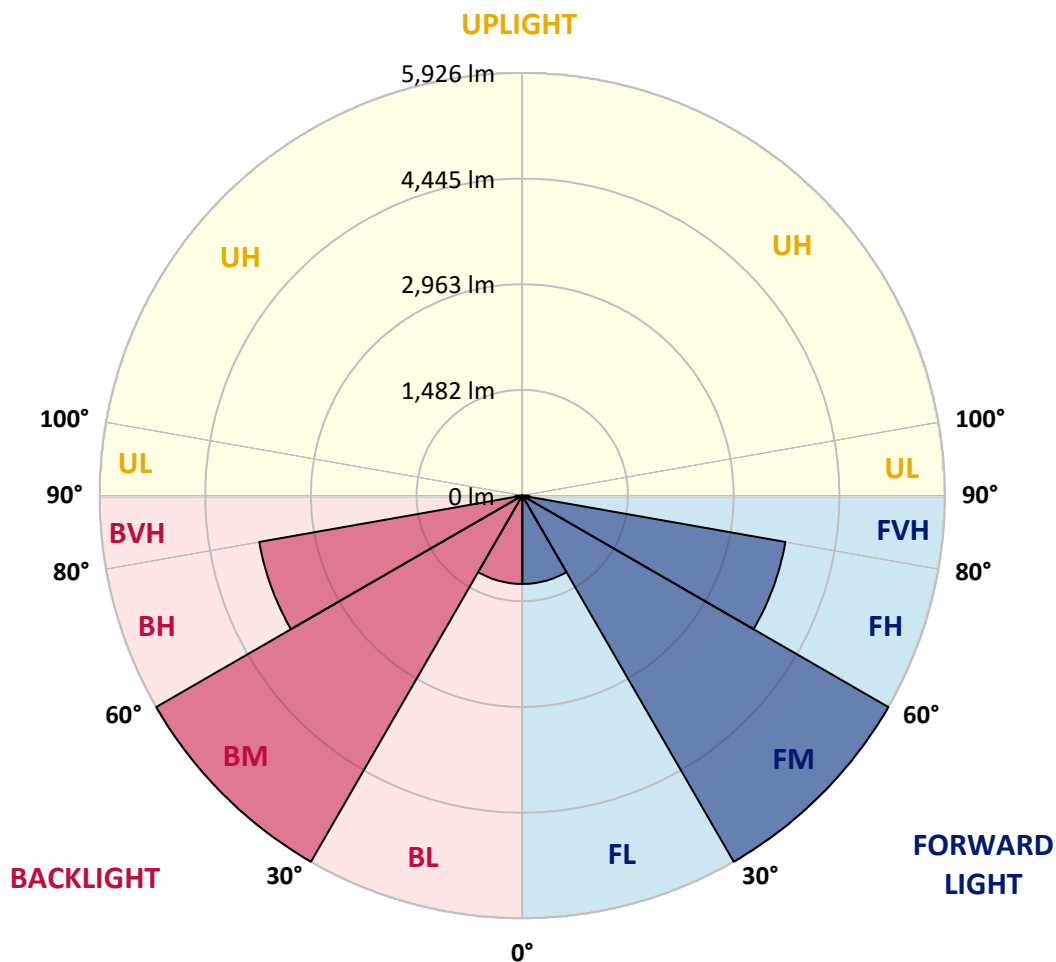
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1238.5	5.6			
FM	(30°-60°)	5926.4	26.9			
FH	(60°-80°)	3745.1	17.0			G2/5000
FVH	(80°-90°)	95.5	0.4			G1/100
BL	(0°-30°)	1238.5	5.6	B3/2500		
BM	(30°-60°)	5926.4	26.9	B4/8500		
BH	(60°-80°)	3745.1	17.0	B4/5000		G4/5000
BVH	(80°-90°)	95.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2305.5	2305.5	2305.5	2305.5	2305.5	2305.5	2305.5	2305.5	2305.5	2305.5	2305.5
2.5°	2293.7	2296.0	2298.4	2301.9	2306.6	2313.7	2318.4	2322.0	2331.4	2332.6	2331.4
5°	2285.4	2287.8	2293.7	2304.3	2319.6	2340.8	2357.3	2377.4	2392.7	2403.3	2401.0
7.5°	2284.2	2288.9	2298.4	2320.8	2350.3	2386.8	2424.6	2458.8	2488.2	2511.8	2508.3
10°	2303.1	2309.0	2324.3	2357.3	2403.3	2456.4	2509.5	2560.2	2602.6	2633.3	2643.9
12.5°	2334.9	2339.7	2368.0	2417.5	2483.5	2549.6	2609.7	2672.2	2731.2	2783.1	2783.1
15°	2390.4	2398.6	2434.0	2505.9	2587.3	2664.0	2725.3	2791.3	2855.0	2914.0	2931.6
17.5°	2467.0	2478.8	2531.9	2623.9	2727.6	2798.4	2856.2	2910.4	2965.8	3022.4	3030.7
20°	2572.0	2583.8	2654.5	2765.4	2888.0	2972.9	3011.8	3024.8	3051.9	3106.2	3113.3
22.5°	2714.7	2726.5	2805.5	2930.5	3067.3	3159.2	3175.8	3145.1	3138.0	3180.5	3185.2
25°	2876.2	2886.8	2977.6	3112.1	3253.6	3353.8	3349.1	3273.6	3231.2	3257.1	3264.2
27.5°	3057.8	3073.2	3165.1	3304.3	3457.6	3546.0	3531.9	3422.2	3331.4	3326.7	3329.1
30°	3290.1	3306.7	3393.9	3527.2	3678.1	3759.5	3730.0	3582.6	3442.3	3395.1	3395.1
32.5°	3535.4	3576.7	3665.1	3804.3	3922.2	3981.2	3936.4	3759.5	3573.2	3507.1	3503.6
35°	3855.0	3877.4	3964.7	4100.3	4188.7	4234.7	4148.6	3958.8	3744.2	3666.3	3655.7
37.5°	4167.5	4186.4	4287.8	4417.5	4524.8	4522.5	4405.7	4195.8	3956.4	3869.2	3862.1
40°	4487.1	4507.1	4622.7	4741.8	4849.1	4839.7	4698.2	4463.5	4208.8	4110.9	4129.8
42.5°	4764.2	4786.6	4917.5	5087.3	5184.0	5181.7	5017.8	4753.6	4488.3	4401.0	4417.5
45°	5016.6	5036.6	5188.8	5383.3	5524.8	5542.5	5363.3	5083.8	4811.4	4699.4	4704.1
47.5°	5194.7	5232.4	5391.6	5614.5	5806.7	5869.2	5693.5	5419.9	5106.2	4989.5	4996.5
50°	5330.3	5353.9	5527.2	5780.7	6023.7	6153.4	6011.9	5731.2	5401.0	5277.2	5293.7
52.5°	5346.8	5375.1	5563.8	5856.2	6167.5	6364.5	6294.9	6035.5	5701.7	5574.4	5609.8
55°	5212.3	5228.8	5454.1	5809.0	6224.1	6521.3	6539.0	6318.5	5988.3	5891.6	5915.2
57.5°	4829.1	4871.5	5156.9	5588.5	6146.3	6605.0	6721.8	6575.6	6278.4	6182.9	6220.6
60°	4200.5	4243.0	4529.5	5076.7	5852.7	6566.1	6872.7	6803.2	6541.4	6464.7	6484.8
62.5°	3291.3	3287.8	3642.7	4313.7	5268.9	6375.1	6984.8	7022.5	6800.8	6704.1	6734.8
65°	2133.3	2143.9	2487.1	3210.0	4388.0	5889.2	7009.5	7302.0	7055.5	6909.3	6931.7
66°	1715.8	1747.7	2038.9	2705.2	3938.7	5570.8	6935.2	7384.5	7133.4	6956.5	6967.1
67.5°	1266.5	1260.6	1500.0	2014.2	3145.1	4965.9	6702.9	7436.4	7221.8	6998.9	7003.6
70°	722.9	721.7	806.6	1106.1	1849.1	3496.5	5649.8	7187.6	7401.1	7152.2	7139.3
72.5°	528.3	524.8	536.6	610.9	902.1	1765.4	3897.5	6281.9	7309.1	7127.5	7090.9
75°	443.4	441.0	438.7	448.1	505.9	799.5	2068.4	4518.9	6342.1	6690.0	6652.2
77.5°	362.0	362.0	363.2	360.9	363.2	421.0	857.3	2422.2	3862.1	4311.4	4416.3
80°	283.0	281.8	301.9	293.6	274.8	270.1	379.7	779.5	1281.9	1274.8	1051.9
82.5°	208.7	194.6	230.0	224.1	202.8	172.2	221.7	332.6	428.1	278.3	206.4
85°	132.1	130.9	162.7	148.6	123.8	81.4	106.1	142.7	176.9	107.3	87.3
87.5°	23.6	22.4	51.9	37.7	37.7	23.6	29.5	38.9	57.8	40.1	29.5
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)