

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: P458977

Luminaire Tested: **GALN-SA5A-735-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458977  
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-SA5A-735-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 22375 lumens  
Efficiency: N/A  
Efficacy: 145.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

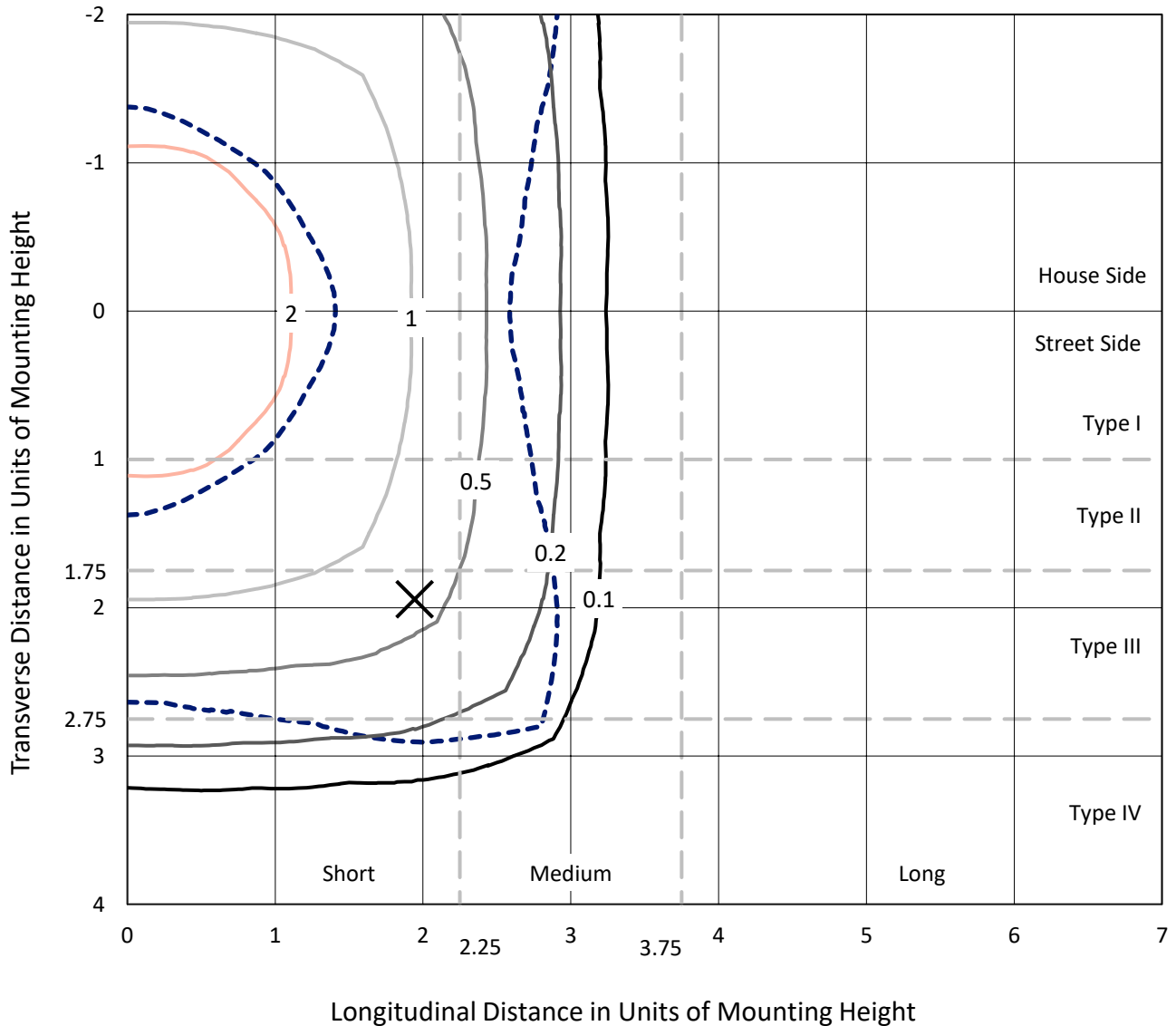
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

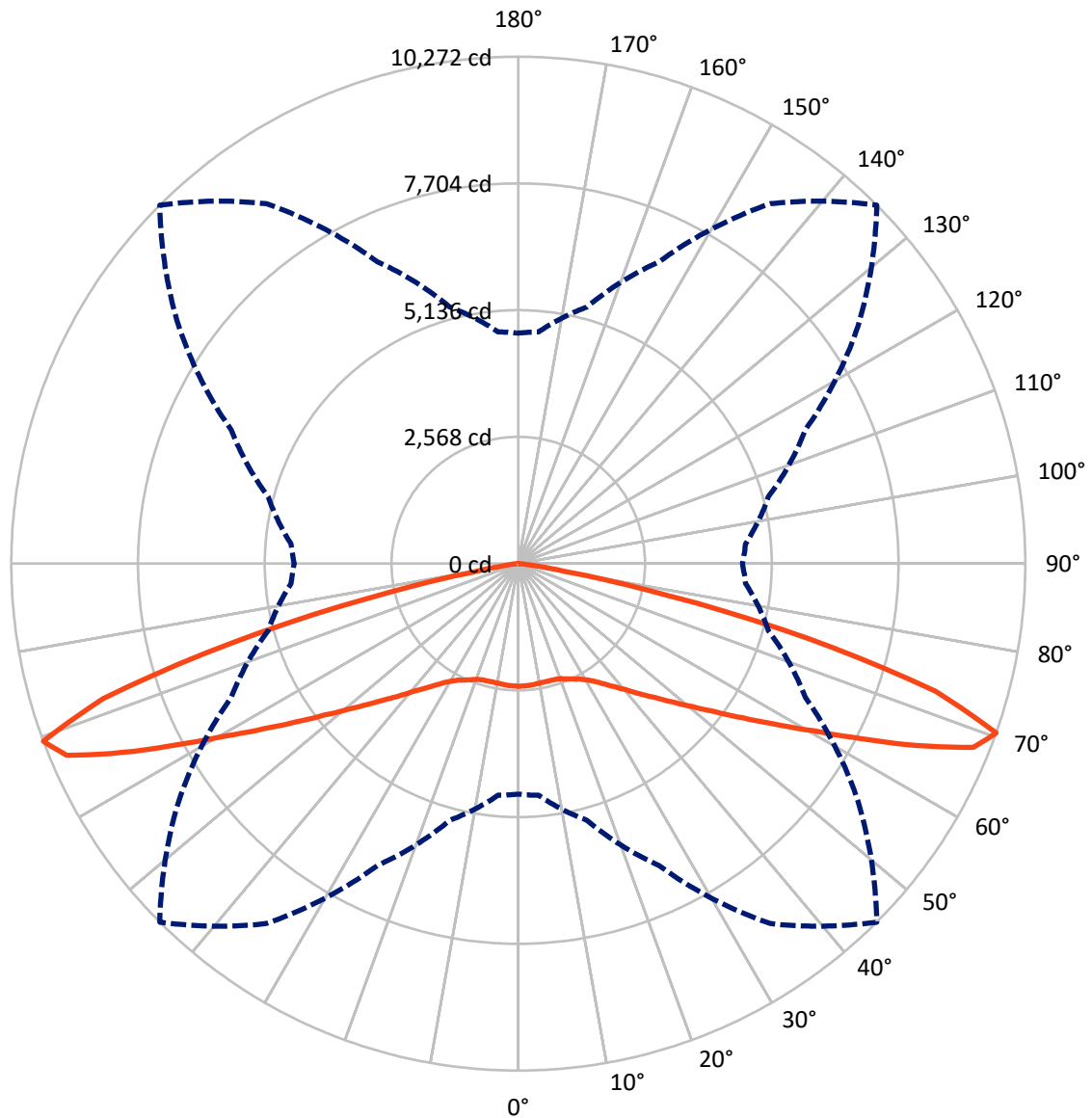
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	11187.5	0.0	11187.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11187.5	0.0	11187.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22375.0	0.0	22375.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.6	1.1
10°-20°	691.4	3.1
20°-30°	1182.5	5.3
30°-40°	1876.9	8.4
40°-50°	3027.9	13.5
50°-60°	4926.5	22.0
60°-70°	7141.6	31.9
70°-80°	3167.8	14.2
80°-90°	124.9	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°	22375.0	100.0
0°-180°	22375.0	100.0



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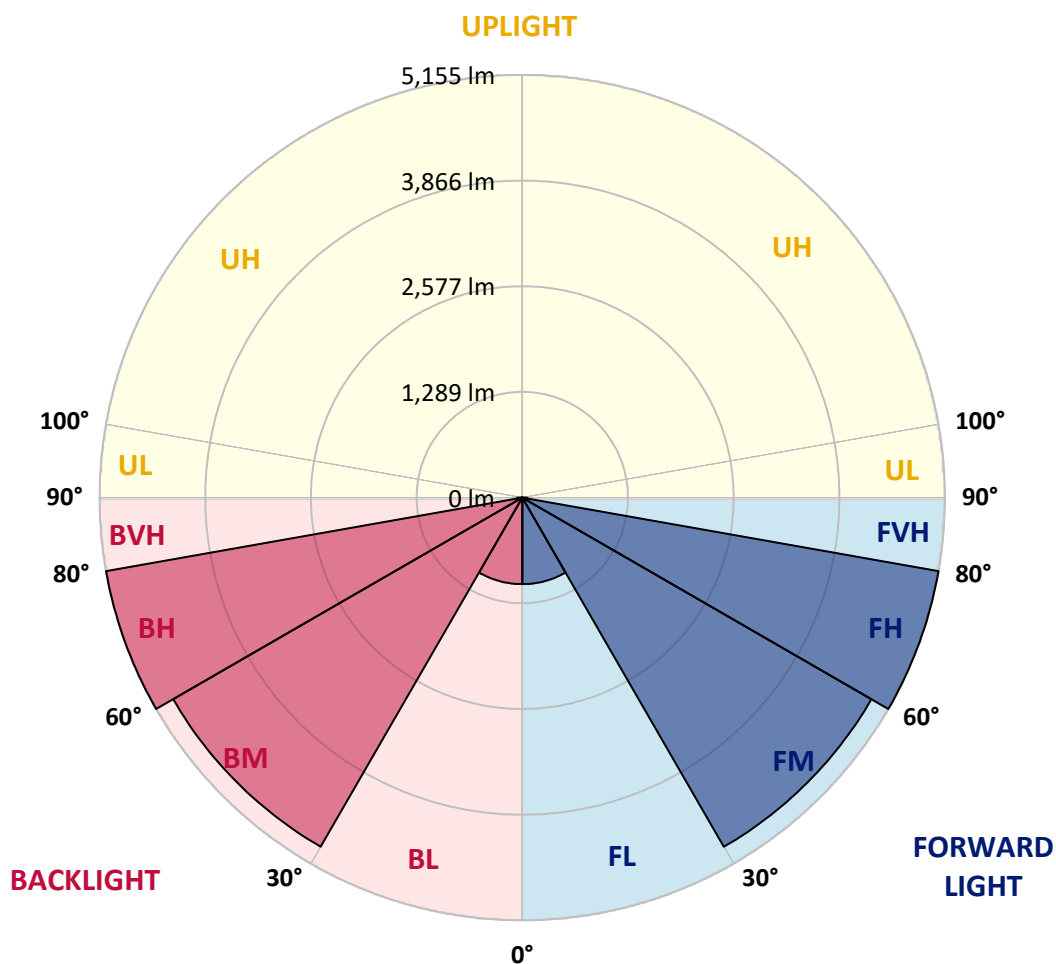
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1054.8	4.7			
FM	(30°-60°)	4915.6	22.0			
FH	(60°-80°)	5154.7	23.0			G3/7500
FVH	(80°-90°)	62.5	0.3			G1/100
BL	(0°-30°)	1054.8	4.7	B3/2500		
BM	(30°-60°)	4915.6	22.0	B3/5000		
BH	(60°-80°)	5154.7	23.0	B5		G3/7500
BVH	(80°-90°)	62.5	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2484.6	2484.6	2484.6	2484.6	2484.6	2484.6	2484.6	2484.6	2484.6	2484.6	2484.6
2.5°	2484.6	2487.0	2483.5	2481.1	2479.9	2479.9	2478.7	2479.9	2487.0	2488.2	2484.6
5°	2477.6	2479.9	2478.7	2476.4	2475.2	2475.2	2474.0	2472.8	2478.7	2481.1	2479.9
7.5°	2468.1	2469.3	2468.1	2466.9	2468.1	2466.9	2463.4	2461.1	2465.8	2465.8	2464.6
10°	2451.6	2454.0	2452.8	2454.0	2456.3	2456.3	2451.6	2446.9	2448.1	2445.7	2445.7
12.5°	2431.6	2435.1	2436.3	2441.0	2446.9	2454.0	2443.4	2432.8	2430.4	2429.2	2428.0
15°	2418.6	2422.1	2426.9	2431.6	2442.2	2457.5	2442.2	2425.7	2421.0	2416.2	2413.9
17.5°	2415.1	2419.8	2426.9	2433.9	2448.1	2463.4	2450.4	2433.9	2422.1	2415.1	2412.7
20°	2424.5	2428.0	2438.6	2451.6	2471.7	2487.0	2474.0	2456.3	2438.6	2428.0	2424.5
22.5°	2443.4	2449.3	2462.2	2485.8	2514.1	2536.5	2518.8	2489.4	2461.1	2446.9	2442.2
25°	2484.6	2489.4	2504.7	2536.5	2569.5	2590.8	2571.9	2537.7	2498.8	2479.9	2474.0
27.5°	2547.1	2554.2	2570.7	2608.5	2635.6	2647.4	2634.4	2610.8	2582.5	2562.5	2557.8
30°	2635.6	2643.8	2668.6	2708.7	2726.4	2733.5	2727.6	2712.2	2692.2	2671.0	2666.2
32.5°	2754.7	2759.4	2787.7	2825.4	2841.9	2844.3	2837.2	2830.2	2797.1	2761.8	2759.4
35°	2887.9	2896.2	2930.4	2975.2	2990.5	2991.7	2977.6	2966.9	2928.0	2899.7	2899.7
37.5°	3064.8	3068.4	3101.4	3152.1	3168.6	3163.9	3156.8	3147.4	3106.1	3069.5	3070.7
40°	3272.4	3279.4	3307.7	3366.7	3366.7	3360.8	3365.5	3358.4	3317.2	3281.8	3283.0
42.5°	3518.8	3522.4	3556.6	3619.1	3614.3	3602.5	3607.3	3597.8	3571.9	3531.8	3517.6
45°	3781.8	3795.9	3854.9	3915.0	3905.6	3867.9	3886.7	3884.4	3860.8	3800.7	3804.2
47.5°	4099.0	4122.6	4179.2	4251.1	4240.5	4181.6	4202.8	4216.9	4183.9	4117.9	4106.1
50°	4456.3	4471.6	4555.4	4622.6	4613.1	4550.6	4599.0	4601.4	4518.8	4425.7	4425.7
52.5°	4837.2	4852.5	4965.7	5070.7	5076.6	4985.8	5024.7	5022.3	4887.9	4765.3	4741.7
55°	5264.1	5271.2	5417.4	5571.9	5604.9	5516.4	5521.2	5474.0	5299.5	5156.8	5143.8
57.5°	5705.1	5731.1	5892.6	6093.1	6191.0	6136.7	6112.0	5985.8	5817.1	5653.2	5645.0
60°	6193.3	6194.5	6404.4	6641.4	6839.5	6876.1	6774.7	6606.0	6387.9	6170.9	6161.5
62.5°	6531.8	6582.5	6847.8	7248.7	7603.7	7808.9	7541.2	7187.4	6758.2	6407.9	6372.6
65°	6601.3	6635.5	7040.0	7719.2	8444.5	8886.7	8267.6	7515.2	6782.9	6316.0	6292.4
67.5°	6038.8	6075.4	6620.2	7662.6	9034.1	9940.9	8739.3	7357.2	6363.1	5785.3	5739.3
70°	4670.9	4712.2	5385.5	6745.2	8903.2	10272.3	8403.2	6417.4	5247.6	4623.8	4540.0
72.5°	2483.5	2635.6	3211.0	4629.7	7226.3	8844.2	6890.2	4682.7	3384.4	2766.5	2655.6
75°	906.8	925.7	1246.4	2053.0	4204.0	6064.8	4365.5	2233.5	1284.2	991.7	941.0
77.5°	375.0	373.8	410.4	620.3	1527.1	3106.1	1704.0	655.7	409.2	378.5	373.8
80°	221.7	221.7	244.1	258.3	402.1	937.5	449.3	292.4	245.3	224.1	227.6
82.5°	99.1	105.0	154.5	162.7	194.6	257.1	217.0	186.3	160.4	110.8	100.2
85°	54.2	47.2	81.4	84.9	93.2	95.5	102.6	101.4	93.2	54.2	55.4
87.5°	10.6	13.0	23.6	17.7	20.0	17.7	23.6	33.0	34.2	18.9	15.3
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)