

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: P528820

Luminaire Tested: **GALN-SA4A-722-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-722-U-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11738 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

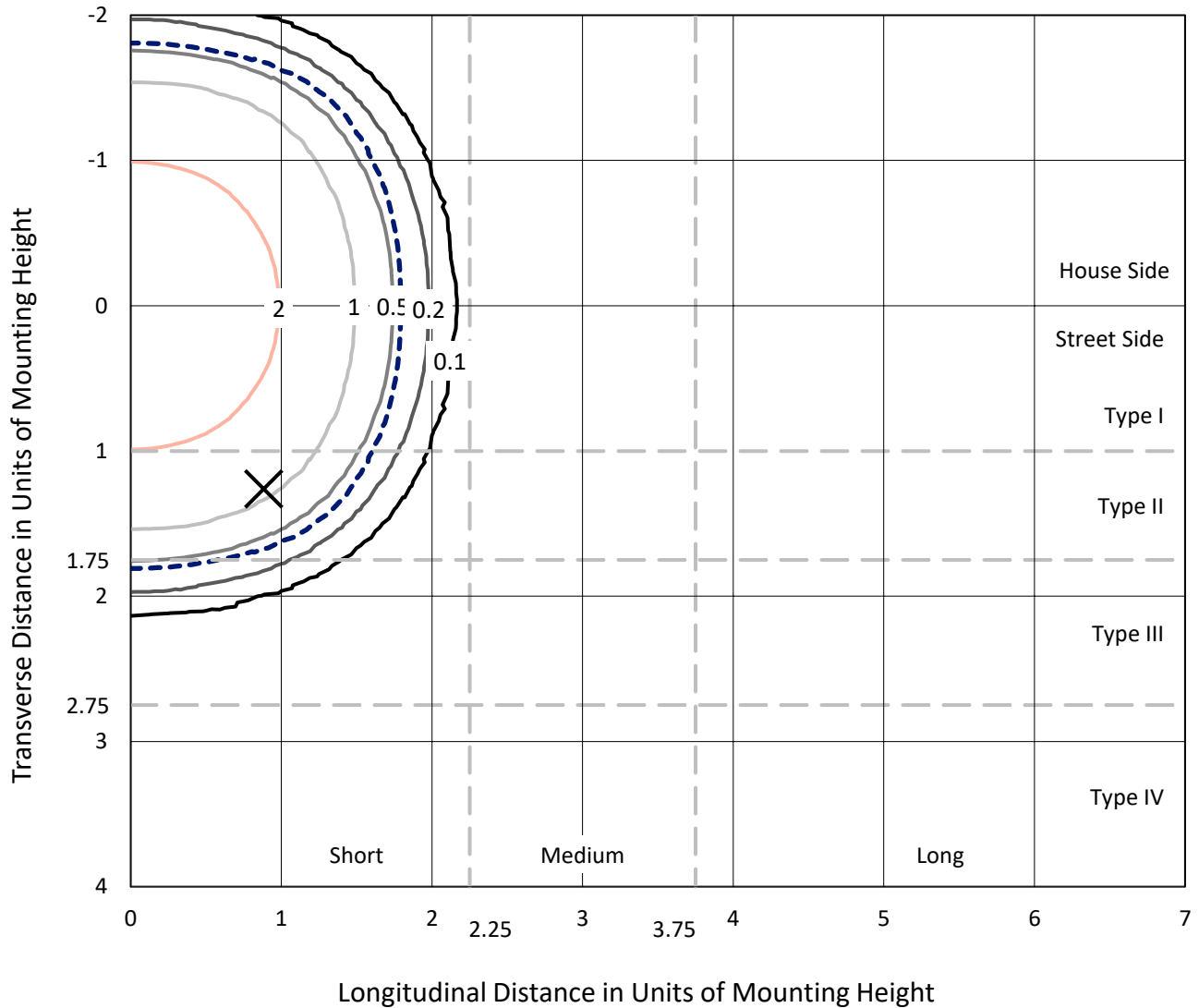
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

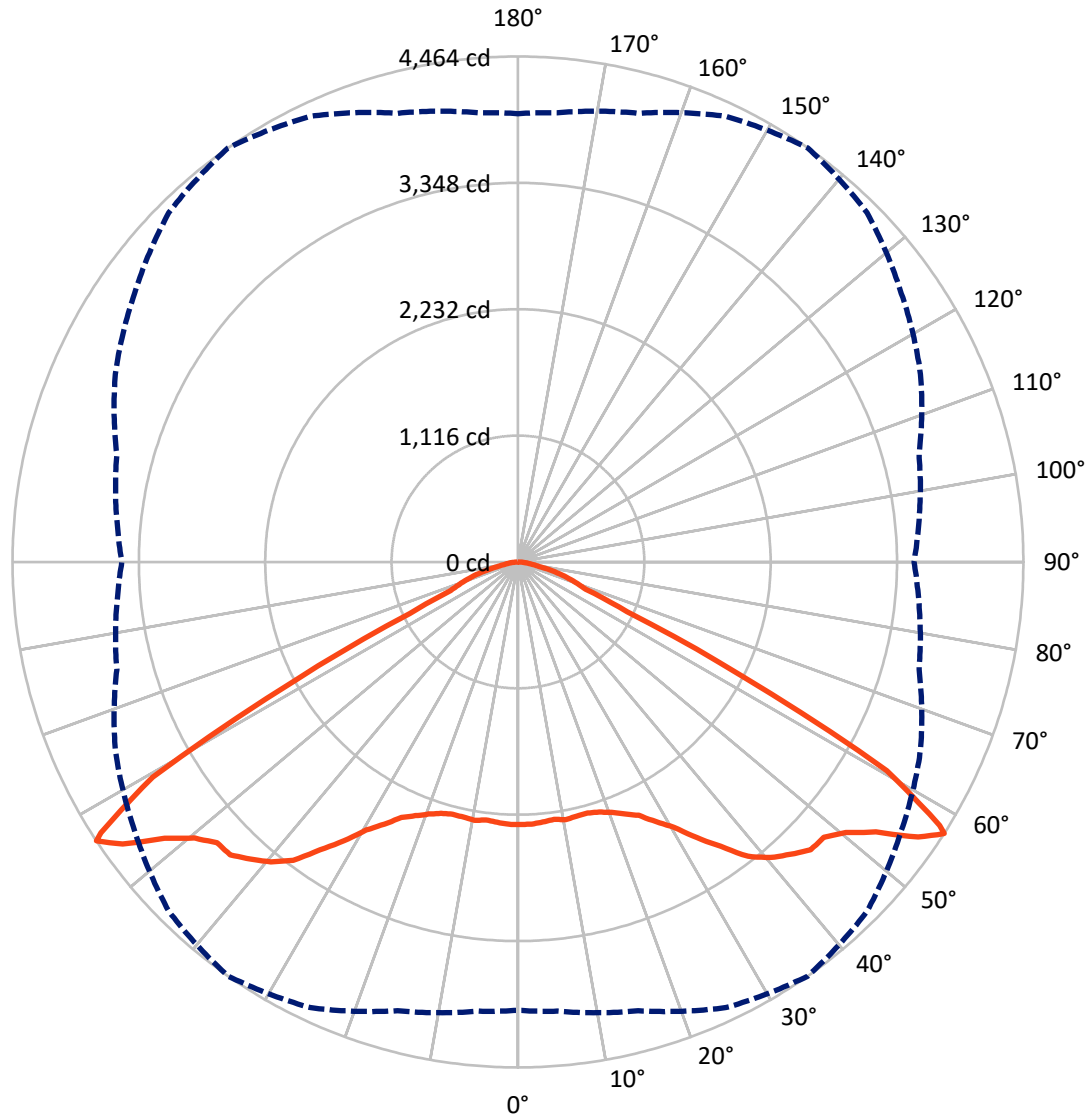
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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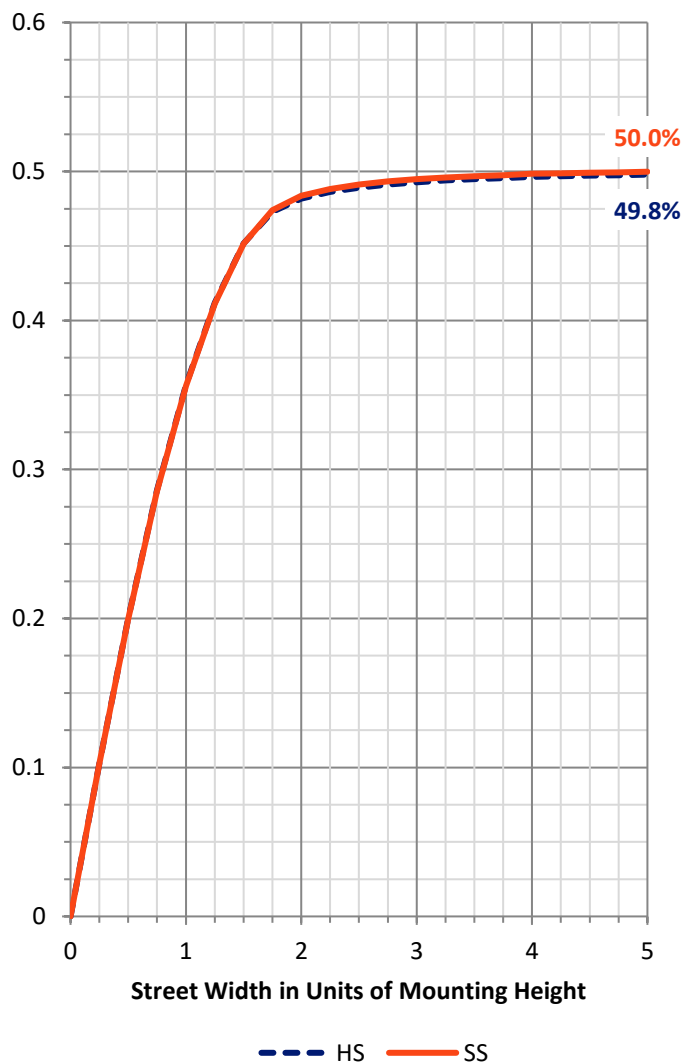
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5869.0	0.0	5869.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5869.0	0.0	5869.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11738.0	0.0	11738.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.8	1.9
10°-20°	650.9	5.5
20°-30°	1136.8	9.7
30°-40°	1862.7	15.9
40°-50°	2731.1	23.3
50°-60°	3440.0	29.3
60°-70°	1293.8	11.0
70°-80°	344.0	2.9
80°-90°	59.0	0.5
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°	11738.0	100.0
0°-180°	11738.0	100.0

**Coefficient of Utilization**



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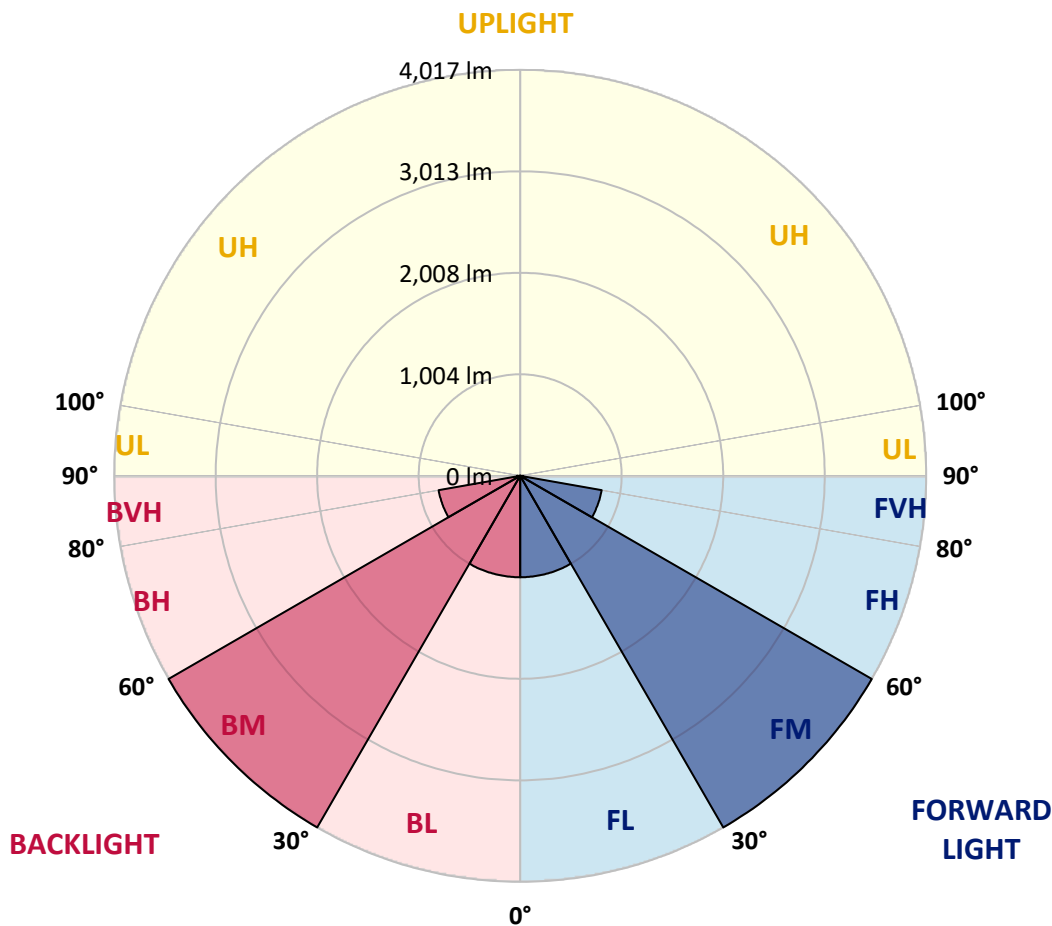
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1003.7	8.6			
FM (30°-60°)	4016.9	34.2			
FH (60°-80°)	818.9	7.0			G1/1800
FVH (80°-90°)	29.5	0.3			G1/100
BL (0°-30°)	1003.7	8.6	B3/2500		
BM (30°-60°)	4016.9	34.2	B3/5000		
BH (60°-80°)	818.9	7.0	B2/1000		G1/1800
BVH (80°-90°)	29.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2	2318.2
2.5°	2306.6	2329.7	2319.6	2313.8	2318.2	2310.9	2299.4	2312.4	2309.5	2297.9	2293.6
5°	2300.8	2318.2	2306.6	2318.2	2306.6	2326.8	2321.1	2299.4	2325.4	2300.8	2309.5
7.5°	2296.5	2302.3	2305.2	2299.4	2295.0	2319.6	2306.6	2296.5	2282.0	2277.7	2284.9
10°	2286.4	2300.8	2279.1	2308.0	2313.8	2296.5	2296.5	2277.7	2266.1	2258.9	2283.5
12.5°	2312.4	2287.8	2284.9	2299.4	2303.7	2310.9	2290.7	2280.6	2258.9	2261.8	2257.4
15°	2282.0	2292.1	2293.6	2296.5	2300.8	2318.2	2299.4	2277.7	2269.0	2238.6	2241.5
17.5°	2293.6	2283.5	2293.6	2326.8	2321.1	2334.1	2313.8	2280.6	2260.3	2243.0	2266.1
20°	2313.8	2309.5	2313.8	2354.3	2361.6	2373.1	2355.8	2325.4	2286.4	2266.1	2277.7
22.5°	2335.5	2332.6	2335.5	2374.6	2416.5	2431.0	2413.6	2342.8	2322.5	2284.9	2271.9
25°	2374.6	2377.5	2407.8	2451.2	2478.7	2506.2	2474.4	2423.7	2358.7	2335.5	2308.0
27.5°	2461.3	2468.6	2485.9	2549.6	2597.3	2621.9	2577.0	2507.6	2467.1	2419.4	2412.2
30°	2568.4	2568.4	2598.7	2653.7	2718.8	2756.4	2701.4	2619.0	2569.8	2543.8	2527.9
32.5°	2710.1	2694.2	2705.7	2802.6	2903.9	2935.7	2861.9	2760.7	2682.6	2647.9	2636.3
35°	2831.5	2841.7	2867.7	2971.8	3084.6	3158.4	3042.7	2911.1	2831.5	2799.7	2793.9
37.5°	2989.2	3006.5	3019.5	3162.7	3298.7	3326.1	3214.8	3109.2	3012.3	2986.3	2971.8
40°	3211.9	3200.3	3204.7	3310.2	3433.1	3450.5	3340.6	3265.4	3185.9	3169.9	3169.9
42.5°	3395.5	3382.5	3397.0	3436.0	3530.0	3517.0	3456.3	3401.3	3368.1	3350.7	3368.1
45°	3506.9	3504.0	3530.0	3559.0	3625.5	3582.1	3534.4	3543.1	3511.2	3482.3	3480.9
47.5°	3628.4	3609.6	3641.4	3684.8	3634.2	3613.9	3611.0	3629.8	3619.7	3569.1	3553.2
50°	3687.7	3680.4	3731.1	3781.7	3754.2	3707.9	3718.0	3748.4	3618.3	3550.3	3511.2
52.5°	3846.7	3848.2	3945.1	3972.6	3961.0	3893.0	3914.7	3832.3	3679.0	3583.5	3587.9
55°	4096.9	4086.8	4195.3	4276.2	4289.3	4202.5	4098.4	3982.7	3790.3	3693.5	3664.5
57°	3959.5	3982.7	4102.7	4342.8	4464.2	4361.6	4134.5	3923.4	3667.4	3550.3	3498.2
57.5°	3775.9	3813.5	4021.7	4263.2	4390.5	4381.8	4089.7	3813.5	3585.0	3402.8	3407.1
60°	2766.5	2773.7	2961.7	3344.9	3742.6	3751.3	3395.5	3029.7	2775.1	2577.0	2604.5
62.5°	1459.2	1492.4	1567.6	1875.6	2219.8	2303.7	2088.2	1900.2	1680.4	1530.0	1544.5
65°	772.2	767.9	804.1	890.8	1060.0	1103.4	1074.5	925.5	848.9	824.3	825.7
67.5°	627.6	634.9	630.5	634.9	646.4	665.2	660.9	666.7	671.0	678.2	676.8
70°	532.2	532.2	535.1	536.5	536.5	545.2	555.3	574.1	575.6	582.8	585.7
72.5°	419.4	416.5	420.8	431.0	432.4	439.6	454.1	465.7	470.0	470.0	461.3
75°	284.9	287.8	293.6	302.2	310.9	323.9	335.5	342.7	345.6	341.3	337.0
77.5°	160.5	163.4	167.8	180.8	190.9	202.5	215.5	222.7	229.9	231.4	222.7
80°	95.4	95.4	102.7	112.8	124.4	135.9	147.5	156.2	159.1	159.1	154.7
82.5°	57.8	59.3	65.1	75.2	85.3	92.6	102.7	109.9	115.7	114.2	111.4
85°	30.4	30.4	36.2	44.8	52.1	59.3	59.3	55.0	52.1	44.8	41.9
87.5°	10.1	8.7	11.6	11.6	10.1	11.6	11.6	13.0	13.0	13.0	13.0
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)