

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: P651825

Luminaire Tested: **GALN-SA4A-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651825  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12907.7 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

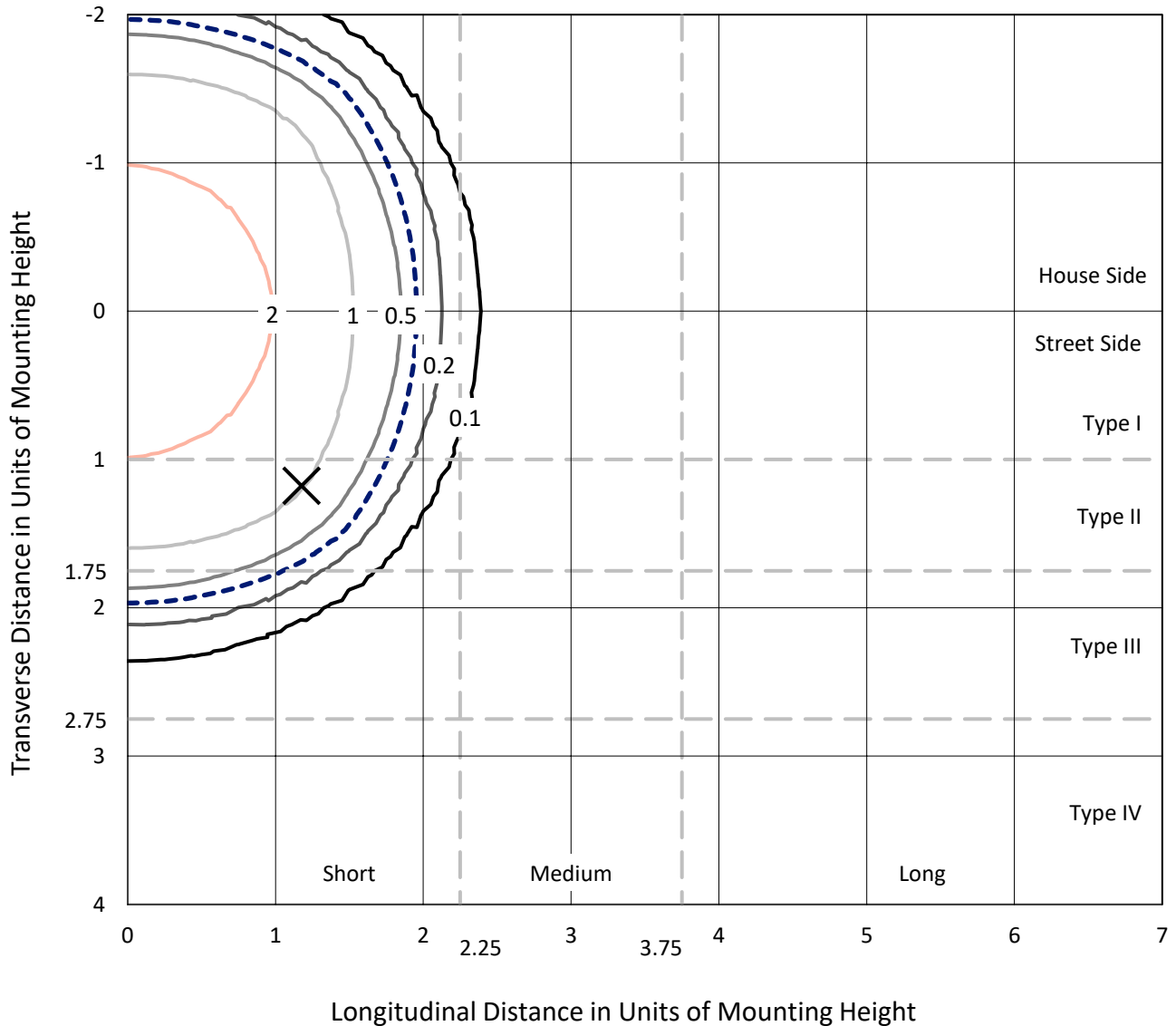
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

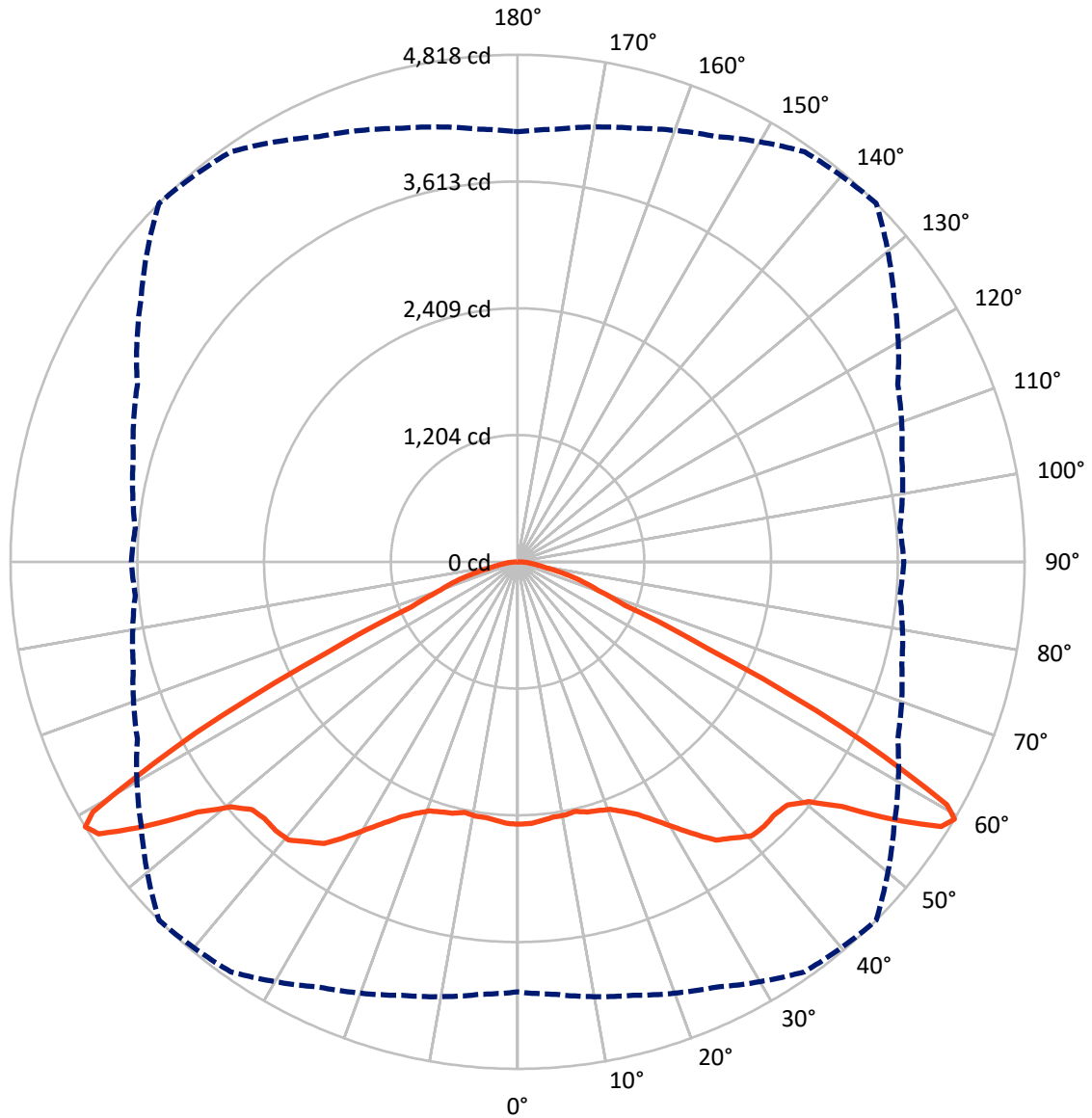
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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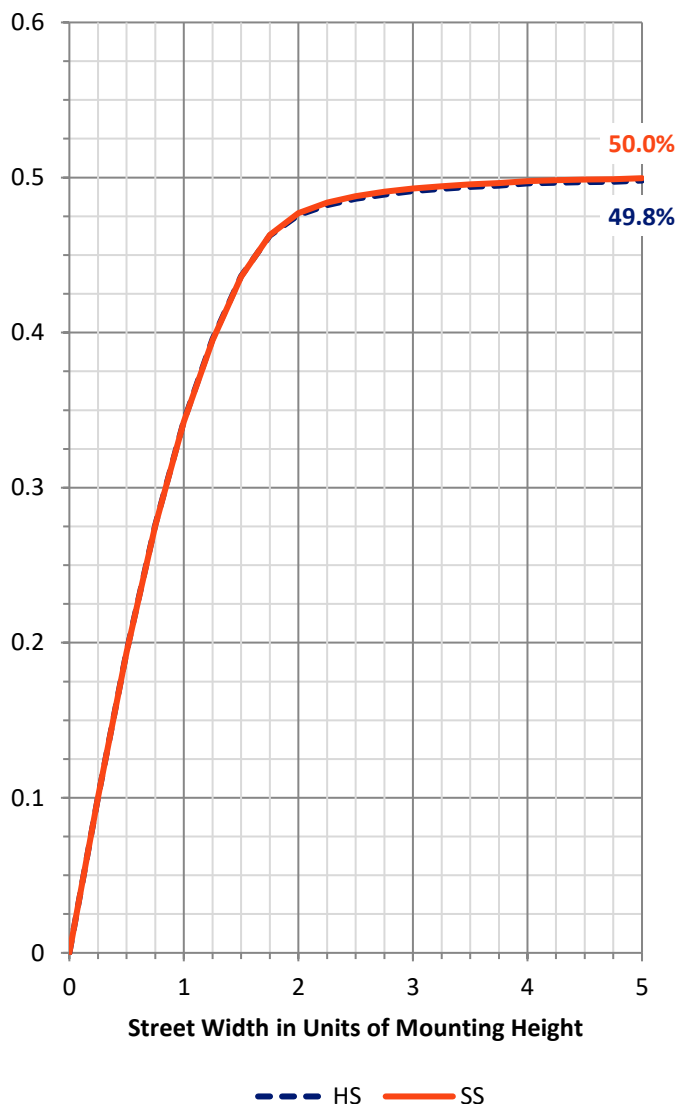
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6453.8	0.0	6453.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6453.8	0.0	6453.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12907.7	0.0	12907.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.0	1.8
10°-20°	698.9	5.4
20°-30°	1220.4	9.5
30°-40°	1949.1	15.1
40°-50°	2655.1	20.6
50°-60°	3590.4	27.8
60°-70°	1969.0	15.3
70°-80°	503.7	3.9
80°-90°	85.9	0.7
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°	12907.7	100.0
0°-180°	12907.7	100.0

**Coefficient of Utilization**



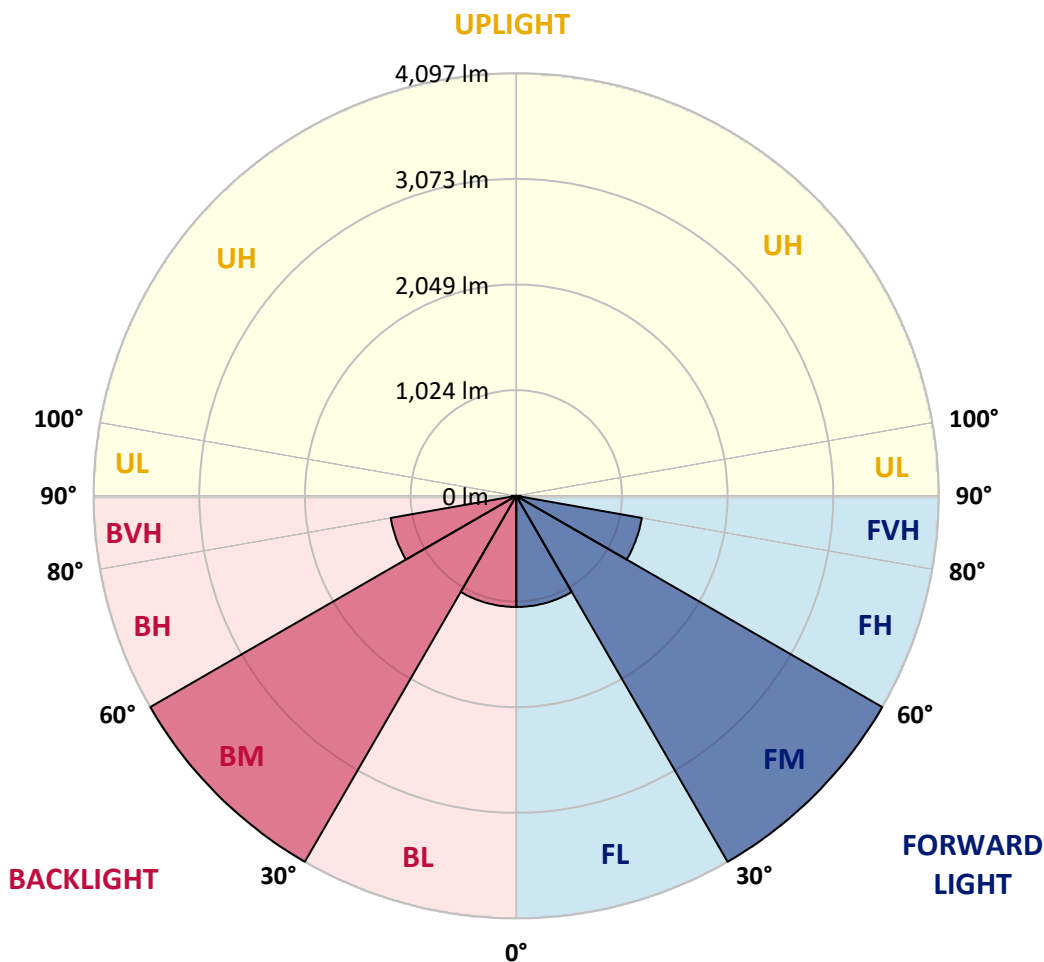
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1077.2	8.3			
FM (30°-60°)	4097.3	31.7			
FH (60°-80°)	1236.4	9.6			G1/1800
FVH (80°-90°)	43.0	0.3			G1/100
BL (0°-30°)	1077.2	8.3	B3/2500		
BM (30°-60°)	4097.3	31.7	B3/5000		
BH (60°-80°)	1236.4	9.6	B3/2500		G1/1800
BVH (80°-90°)	43.0	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°	2493.1	2493.1	2493.1	2493.1	2493.1	2493.1	2493.1	2493.1	2493.1	2493.1	2493.1
2.5°	2478.3	2496.4	2483.2	2494.8	2493.1	2488.2	2479.9	2475.0	2468.3	2478.3	2461.7
5°	2468.3	2483.2	2498.1	2478.3	2478.3	2468.3	2463.4	2453.4	2453.4	2451.8	2450.2
7.5°	2484.9	2470.0	2463.4	2466.7	2470.0	2448.5	2463.4	2443.5	2427.0	2438.6	2451.8
10°	2470.0	2476.6	2451.8	2463.4	2445.2	2448.5	2438.6	2451.8	2433.6	2433.6	2433.6
12.5°	2484.9	2466.7	2475.0	2466.7	2461.7	2433.6	2446.8	2431.9	2430.2	2446.8	2431.9
15°	2514.7	2484.9	2478.3	2461.7	2466.7	2466.7	2453.4	2455.1	2436.9	2446.8	2450.2
17.5°	2504.8	2488.2	2483.2	2463.4	2479.9	2484.9	2460.1	2443.5	2455.1	2453.4	2451.8
20°	2513.0	2519.6	2514.7	2518.0	2524.6	2511.3	2488.2	2465.1	2450.2	2471.6	2470.0
22.5°	2566.0	2559.3	2556.1	2552.7	2564.3	2577.5	2546.0	2509.7	2509.7	2524.6	2531.2
25°	2609.0	2607.3	2605.7	2620.6	2660.3	2660.3	2620.6	2574.2	2562.6	2572.5	2564.3
27.5°	2671.9	2690.0	2683.4	2709.9	2767.7	2781.0	2728.0	2673.5	2642.0	2630.5	2645.4
30°	2815.8	2794.2	2799.2	2827.4	2878.6	2921.6	2840.6	2782.7	2739.6	2738.0	2744.6
32.5°	2911.7	2928.3	2943.2	2969.6	3050.6	3083.8	2986.1	2891.9	2865.4	2850.5	2855.4
35°	3103.6	3088.7	3085.4	3111.9	3192.9	3247.5	3125.2	3042.4	3007.7	3040.7	3040.7
37.5°	3285.6	3244.2	3212.8	3247.5	3322.0	3328.6	3224.4	3179.7	3161.5	3199.6	3197.9
40°	3371.7	3368.3	3295.5	3315.4	3414.6	3424.6	3326.9	3274.0	3270.7	3320.4	3370.0
42.5°	3461.0	3429.5	3356.8	3370.0	3431.2	3434.5	3341.8	3326.9	3363.3	3411.3	3414.6
45°	3475.9	3449.4	3403.0	3370.0	3414.6	3424.6	3370.0	3379.9	3383.2	3441.1	3441.1
47.5°	3505.6	3502.3	3475.9	3451.0	3459.3	3451.0	3416.3	3431.2	3480.8	3508.9	3495.7
50°	3588.4	3553.6	3580.1	3558.5	3560.2	3583.4	3552.0	3566.8	3556.9	3532.1	3515.5
52.5°	3770.3	3753.8	3776.9	3791.8	3808.4	3861.3	3825.0	3745.5	3671.0	3604.9	3603.3
55°	4036.7	4048.2	4092.9	4169.0	4233.5	4317.9	4142.6	3952.3	3833.2	3729.0	3735.6
57.5°	4288.2	4279.8	4341.1	4514.8	4703.4	4746.4	4402.3	4131.0	3937.4	3871.2	3843.1
59°	4086.3	4126.0	4265.0	4458.6	4754.7	4817.5	4367.6	3985.4	3780.2	3646.2	3669.4
60°	3768.7	3783.6	3907.6	4177.3	4577.6	4685.2	4134.3	3760.4	3487.5	3409.7	3444.4
62.5°	2663.5	2651.9	2741.3	2961.3	3320.4	3465.9	3073.9	2810.8	2638.7	2552.7	2572.5
65°	1416.2	1469.1	1505.5	1642.8	1833.0	1986.9	1824.8	1710.6	1614.6	1543.6	1541.9
67.5°	956.2	949.6	957.9	989.4	1053.9	1096.8	1093.6	1035.6	1027.4	1014.2	1029.0
70°	805.7	802.4	787.5	787.5	800.7	810.6	822.2	828.8	842.1	858.7	857.0
72.5°	653.5	645.2	635.3	630.3	646.9	651.9	666.7	673.3	684.9	683.2	698.1
75°	431.8	431.8	443.4	456.6	461.5	471.5	473.1	493.0	493.0	496.3	483.1
77.5°	241.5	234.9	243.2	256.4	268.0	286.2	304.4	319.3	327.6	324.3	324.3
80°	140.6	140.6	148.9	163.7	178.7	195.2	208.5	220.0	228.3	225.0	218.4
82.5°	87.7	87.7	96.0	110.8	122.4	132.4	150.5	165.4	175.3	172.1	163.7
85°	44.7	44.7	54.6	64.5	79.4	86.0	84.4	77.8	76.1	67.9	67.9
87.5°	11.6	11.6	16.6	18.2	14.9	16.6	16.6	16.6	16.6	16.6	18.2
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)