

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: P652101

Luminaire Tested: **GALN-SA9A-840-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652101  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36491 lumens  
Efficiency: N/A  
Efficacy: 133.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

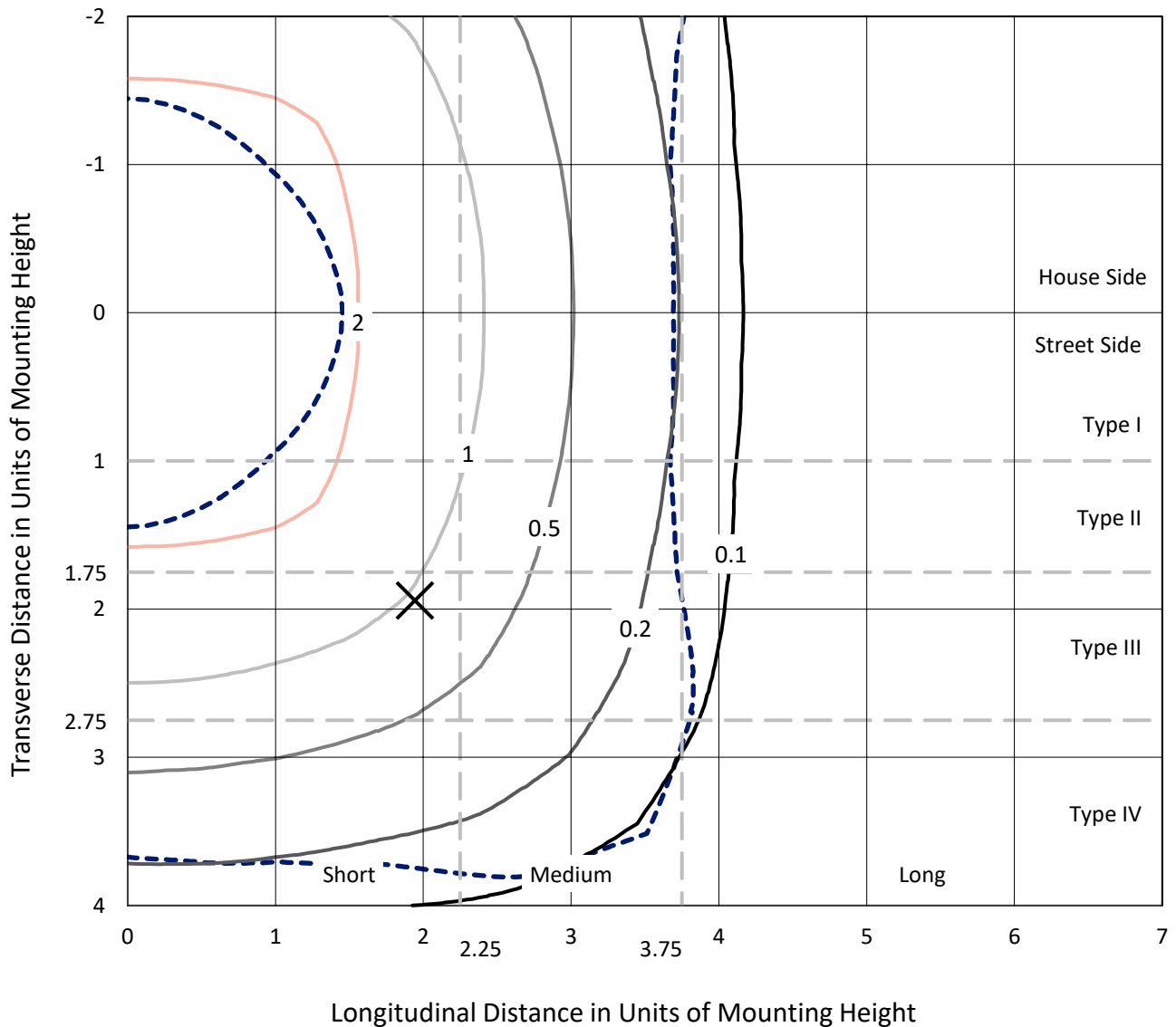
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

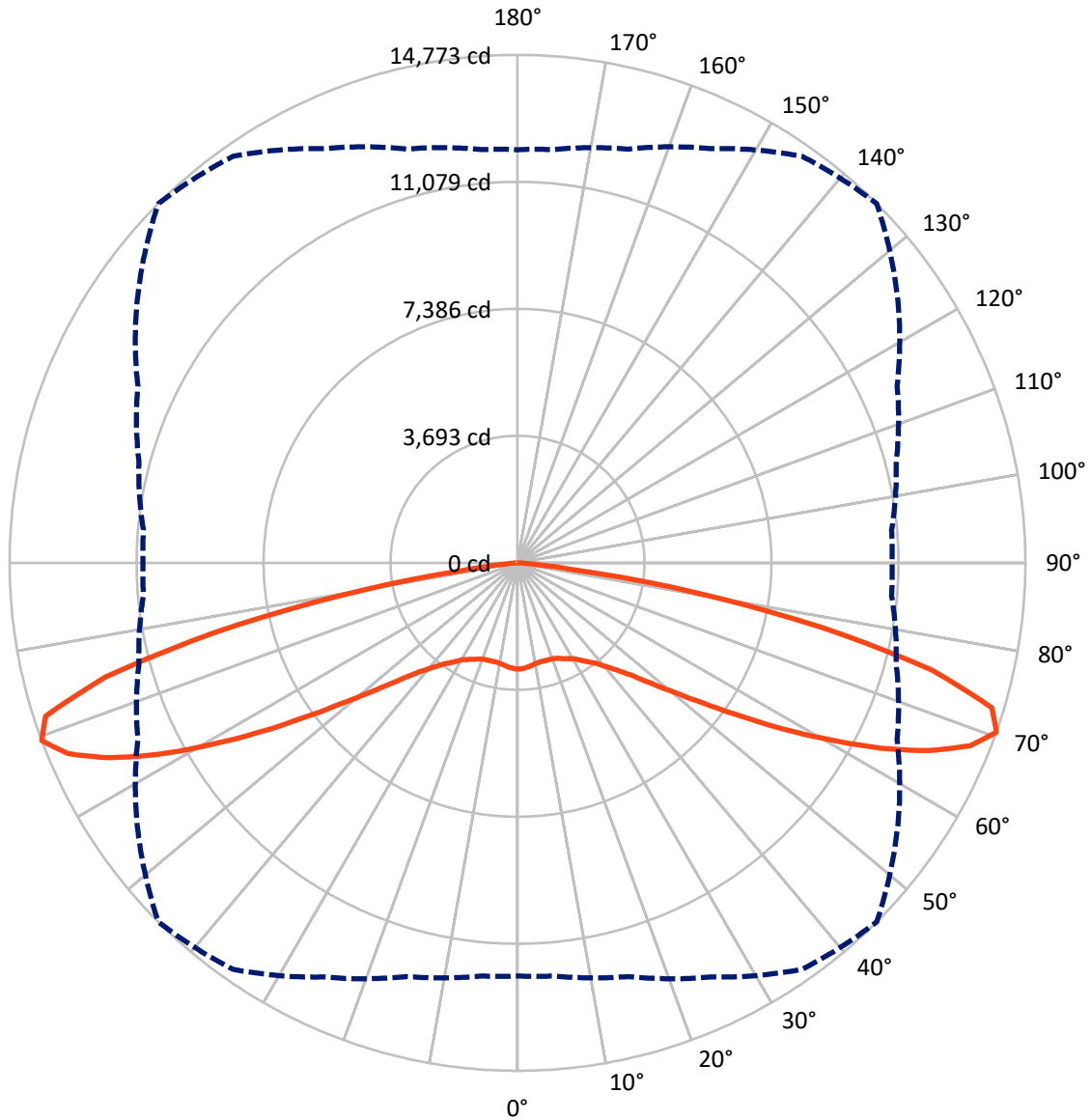
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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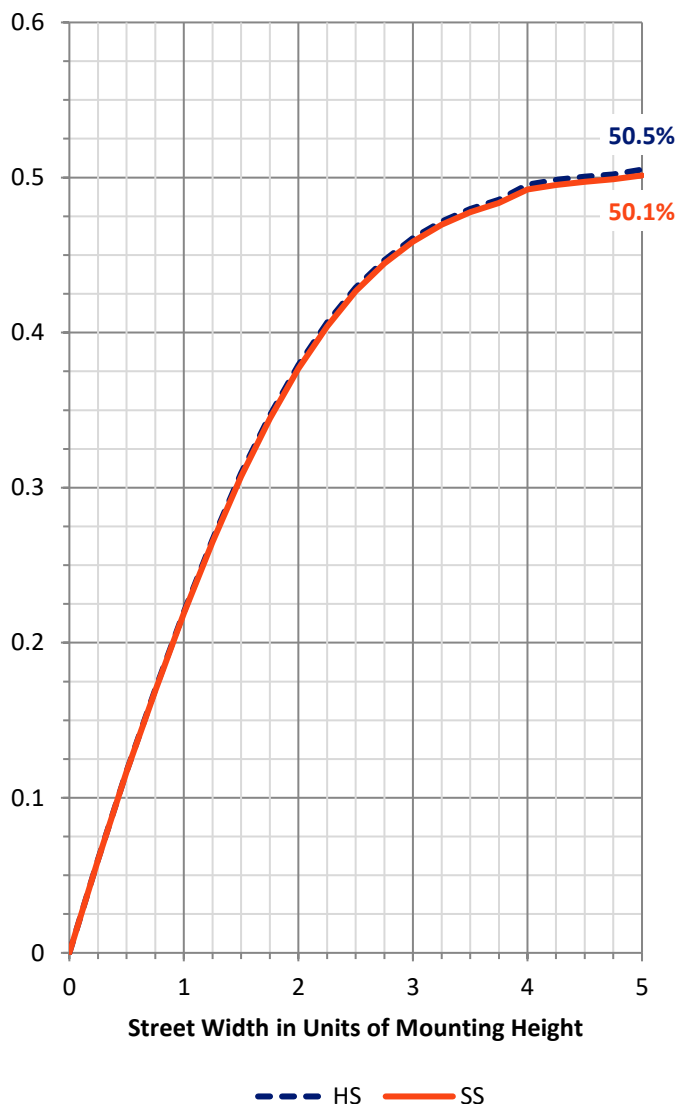
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18245.5	0.0	18245.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18245.5	0.0	18245.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36491.0	0.0	36491.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.9	0.8
10°-20°	845.8	2.3
20°-30°	1441.1	3.9
30°-40°	2233.7	6.1
40°-50°	3759.6	10.3
50°-60°	6840.4	18.7
60°-70°	11580.6	31.7
70°-80°	8963.8	24.6
80°-90°	537.1	1.5
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°	36491.0	100.0
0°-180°	36491.0	100.0

**Coefficient of Utilization**



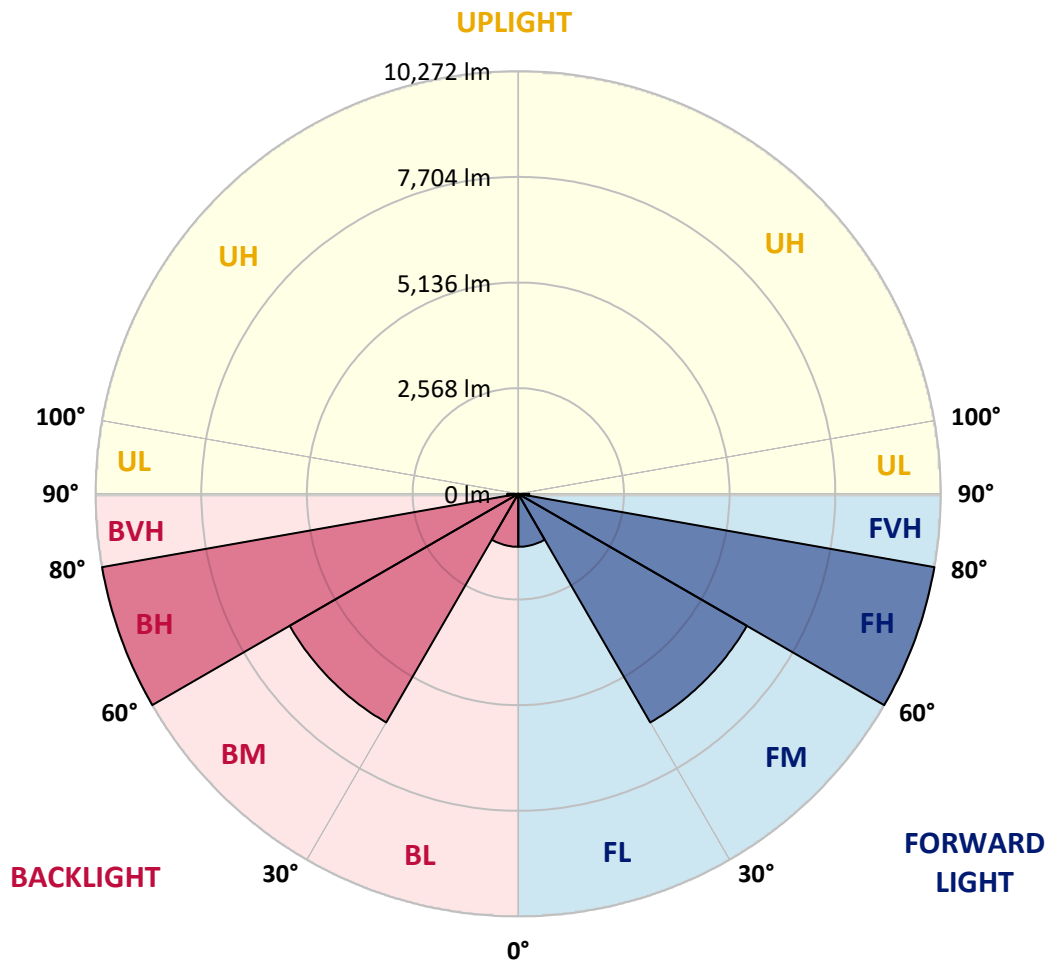
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1287.9	3.5			
FM (30°-60°)	6416.8	17.6			
FH (60°-80°)	10272.2	28.2			G4/12000
FVH (80°-90°)	268.6	0.7			G3/500
BL (0°-30°)	1287.9	3.5	B3/2500		
BM (30°-60°)	6416.8	17.6	B4/8500		
BH (60°-80°)	10272.2	28.2	B5		G4/12000
BVH (80°-90°)	268.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4	3089.4
2.5°	3081.7	3083.6	3083.6	3079.7	3077.8	3077.8	3076.0	3076.0	3081.7	3083.6	3085.5
5°	3054.7	3054.7	3054.7	3052.8	3049.0	3049.0	3045.1	3045.1	3047.0	3052.8	3049.0
7.5°	3018.1	3022.0	3022.0	3014.2	3008.4	3008.4	3006.6	3008.4	3010.4	3016.2	3014.2
10°	3006.6	3008.4	2998.8	2985.3	2975.7	2969.9	2971.8	2975.7	2985.3	2989.2	2991.1
12.5°	3014.2	3014.2	2996.9	2977.6	2960.3	2952.6	2950.6	2964.1	2981.5	2993.0	2996.9
15°	3023.9	3020.0	2998.8	2973.8	2956.5	2954.5	2952.6	2962.2	2987.2	3010.4	3012.3
17.5°	3029.7	3027.8	3000.8	2969.9	2960.3	2960.3	2958.4	2966.0	2993.0	3022.0	3023.9
20°	3049.0	3043.2	3012.3	2979.6	2971.8	2975.7	2969.9	2979.6	3008.4	3043.2	3050.9
22.5°	3087.5	3081.7	3050.9	3018.1	3014.2	3014.2	3012.3	3022.0	3052.8	3089.4	3095.2
25°	3133.7	3127.9	3099.1	3076.0	3079.7	3087.5	3083.6	3085.5	3110.6	3141.5	3151.1
27.5°	3195.4	3185.8	3160.7	3141.5	3153.0	3153.0	3153.0	3151.1	3166.5	3195.4	3205.1
30°	3270.6	3266.7	3239.7	3237.8	3247.4	3237.8	3237.8	3239.7	3241.6	3268.6	3278.3
32.5°	3368.9	3361.1	3347.7	3343.8	3370.8	3378.5	3351.6	3326.5	3339.9	3366.9	3372.7
35°	3530.8	3519.2	3499.9	3478.7	3499.9	3536.6	3478.7	3459.5	3494.1	3530.8	3534.6
37.5°	3750.4	3744.7	3713.9	3675.3	3673.4	3711.9	3652.2	3650.3	3715.8	3760.1	3765.9
40°	4026.0	4031.8	3993.3	3956.7	3937.4	3968.3	3922.0	3939.3	4002.9	4053.0	4049.2
42.5°	4413.4	4392.2	4332.5	4297.8	4276.6	4265.0	4253.4	4280.4	4351.8	4405.7	4448.1
45°	4866.4	4858.6	4783.4	4741.1	4694.8	4677.5	4673.6	4721.8	4808.5	4874.1	4879.8
47.5°	5379.0	5361.6	5313.4	5269.1	5251.8	5230.6	5211.3	5247.9	5334.7	5381.0	5394.4
50°	5907.1	5911.0	5911.0	5903.2	5920.6	5924.4	5872.4	5885.9	5934.1	5930.2	5926.4
52.5°	6510.3	6531.5	6631.7	6641.4	6724.2	6780.1	6685.7	6629.8	6612.4	6508.4	6516.1
55°	7219.6	7238.8	7389.1	7539.5	7763.0	7857.5	7659.0	7485.5	7362.2	7204.1	7211.8
57.5°	8104.1	8113.8	8256.4	8545.5	8900.1	9121.7	8772.9	8429.8	8179.3	8029.0	7969.2
60°	9056.2	9065.9	9274.0	9626.7	10177.9	10447.7	10016.0	9455.2	9139.1	8909.7	8925.2
62.5°	10199.1	10237.7	10424.6	10910.3	11579.1	11881.6	11309.2	10559.5	10131.6	9846.4	9857.9
65°	11422.9	11488.5	11692.8	12226.5	12843.3	13169.1	12467.5	11602.2	11070.3	10721.4	10758.0
67.5°	12217.0	12274.7	12569.7	13159.4	13928.4	14198.2	13292.3	12284.4	11619.5	11203.2	11126.1
70°	12014.6	12062.8	12456.0	13292.3	14431.4	14772.5	13489.0	12184.2	11401.7	10921.8	10890.9
72.5°	10605.8	10505.5	11079.8	12280.5	13857.1	14429.5	12870.3	11128.0	10143.2	9649.8	9592.0
75°	7028.7	7246.6	8094.5	9509.1	11723.5	12432.8	10985.4	8934.8	7695.6	7285.1	7221.5
77.5°	2349.3	2517.0	3270.6	5390.6	7992.4	9058.2	8004.0	5843.4	4134.0	3330.3	3345.8
80°	622.5	614.8	795.9	1482.1	3453.7	5246.0	4020.3	1979.3	1083.1	784.4	743.9
82.5°	223.5	250.5	321.9	410.5	915.4	1630.4	1150.6	555.1	406.6	300.7	291.0
85°	98.3	96.4	138.8	163.8	229.3	304.5	269.8	235.1	206.2	136.8	127.2
87.5°	21.2	21.2	32.8	25.1	40.5	40.5	50.1	59.7	61.6	40.5	32.8
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)