

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: P647917

Luminaire Tested: **GALN-SA5A-835-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-835-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16151.7 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

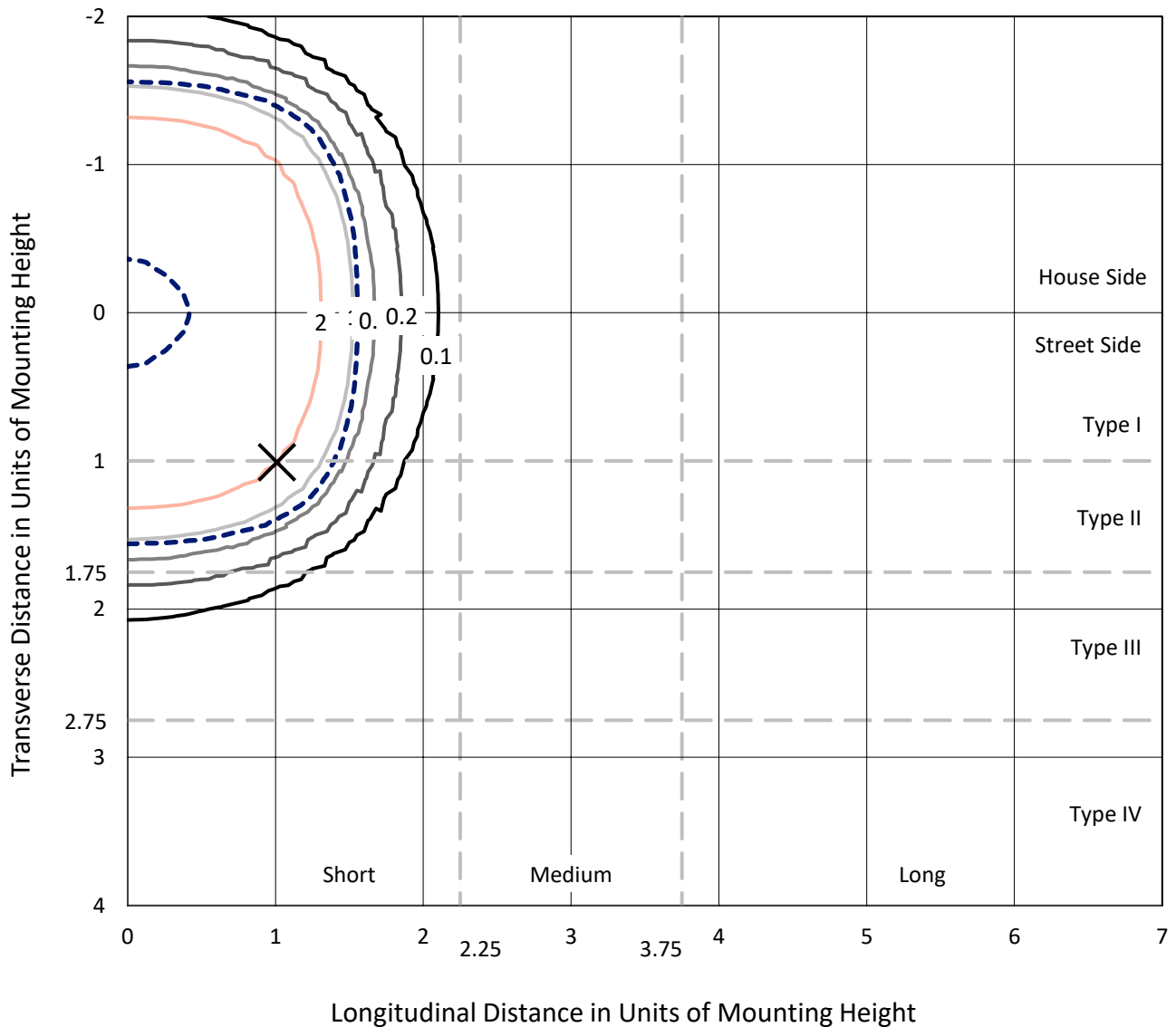
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P647917  
 CATALOG NUMBER: GALN-SA5A-835-U-5NQ-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

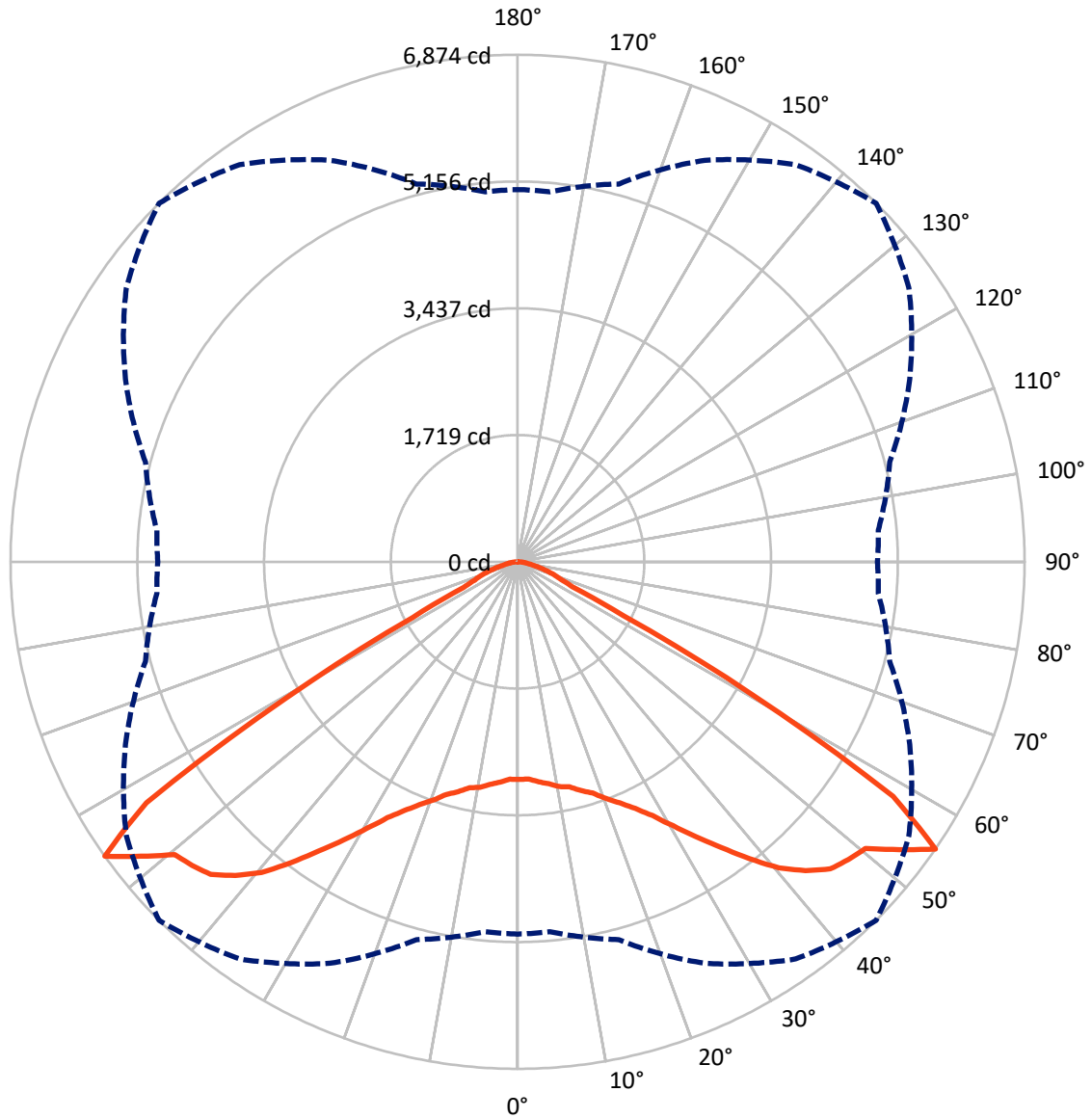
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - N/A

REPORT NUMBER: P647917  
CATALOG NUMBER: GALN-SA5A-835-U-5NQ-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P647917  
 CATALOG NUMBER: GALN-SA5A-835-U-5NQ-GRSWH

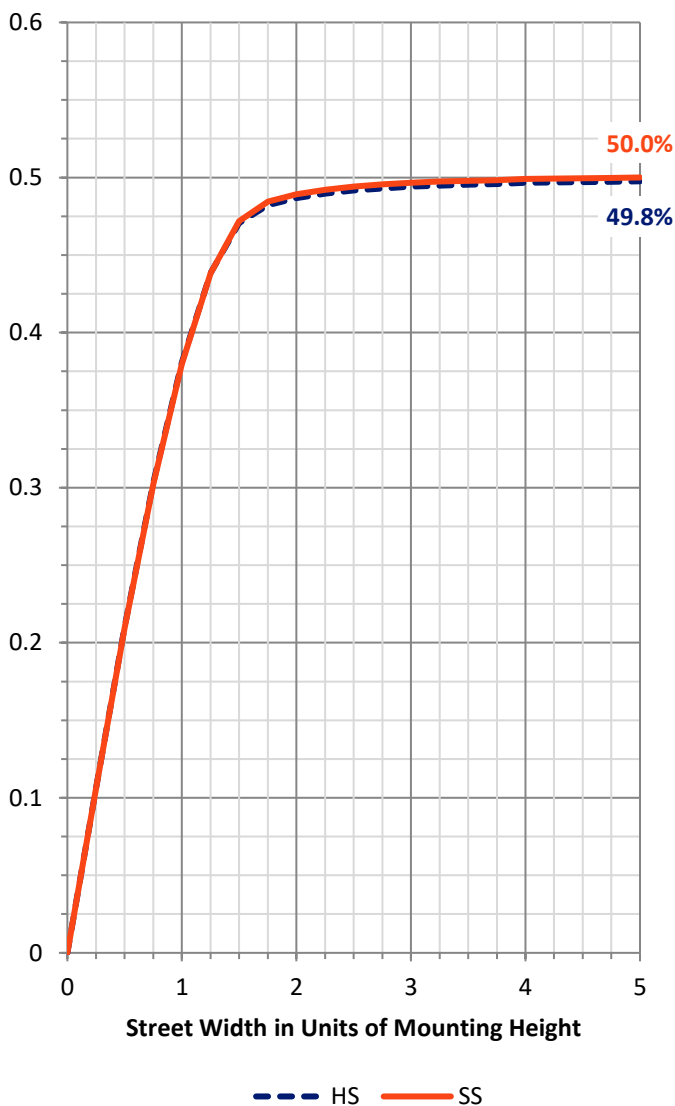
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8075.9	0.0	8075.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8075.9	0.0	8075.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16151.7	0.0	16151.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.1	1.8
10°-20°	912.8	5.7
20°-30°	1702.1	10.5
30°-40°	2849.9	17.6
40°-50°	4434.7	27.5
50°-60°	4604.6	28.5
60°-70°	976.5	6.0
70°-80°	321.6	2.0
80°-90°	61.3	0.4
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°	16151.7	100.0
0°-180°	16151.7	100.0

**Coefficient of Utilization**

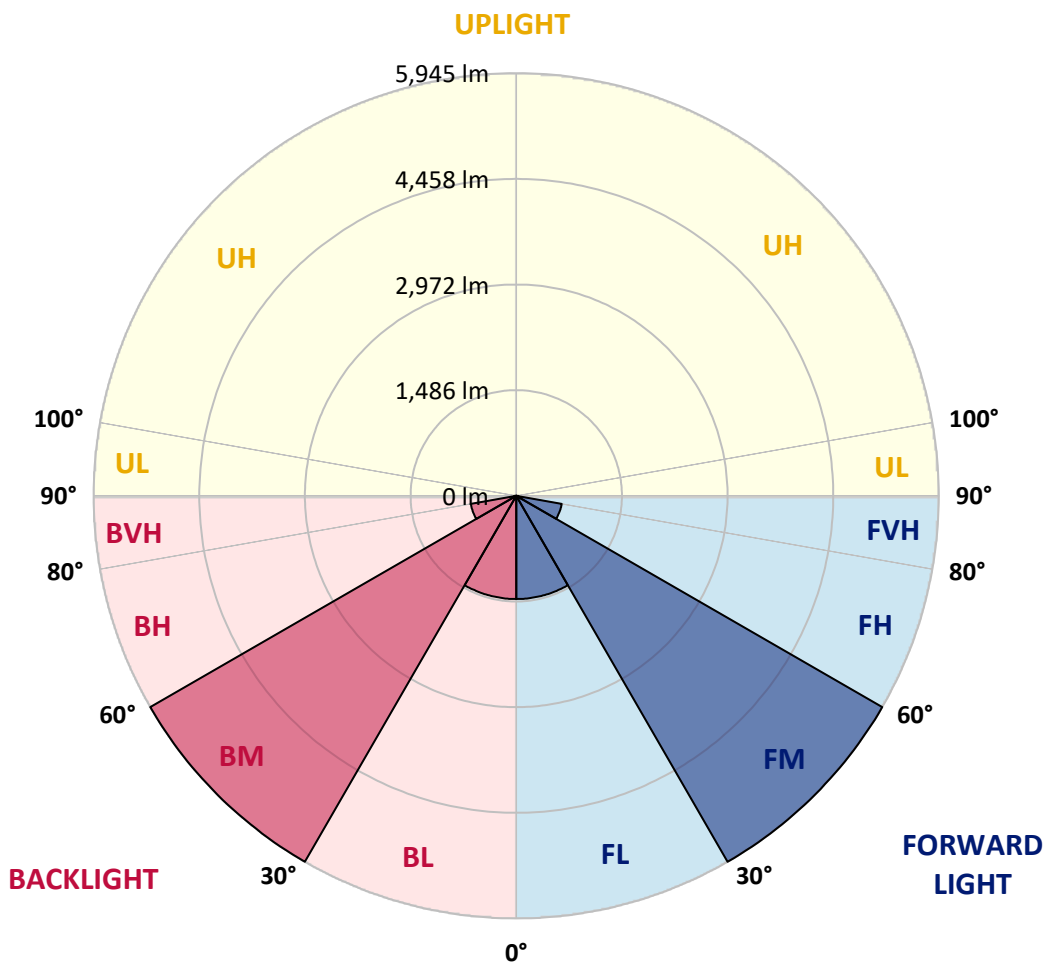


REPORT NUMBER: P647917  
 CATALOG NUMBER: GALN-SA5A-835-U-5NQ-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1451.5	9.0			
FM (30°-60°)	5944.7	36.8			
FH (60°-80°)	649.0	4.0			G0/660
FVH (80°-90°)	30.6	0.2			G1/100
BL (0°-30°)	1451.5	9.0	B3/2500		
BM (30°-60°)	5944.7	36.8	B4/8500		
BH (60°-80°)	649.0	4.0	B2/1000		G0/660
BVH (80°-90°)	30.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**  
 Type V Short





REPORT NUMBER: P647917

CATALOG NUMBER: GALN-SA5A-835-U-5NQ-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2949.1	2949.1	2949.1	2949.1	2949.1	2949.1	2949.1	2949.1	2949.1	2949.1	2949.1
2.5°	2984.2	2970.5	2947.1	2964.7	2978.4	2949.1	2960.8	2966.6	2962.7	2947.1	2953.0
5°	3027.2	3019.3	2999.8	3013.5	2995.9	2995.9	2984.2	2968.6	2992.0	2988.1	2997.9
7.5°	3027.2	3017.4	3056.4	3031.1	3038.8	3038.8	3019.3	3003.7	3015.4	2997.9	2988.1
10°	3087.6	3101.3	3083.8	3089.6	3085.6	3099.3	3070.1	3060.3	3050.6	3044.7	3033.0
12.5°	3159.9	3150.1	3156.0	3152.0	3165.7	3130.6	3113.0	3091.5	3109.1	3083.8	3101.3
15°	3218.4	3212.6	3218.4	3234.0	3220.3	3218.4	3187.2	3165.7	3138.4	3144.2	3116.9
17.5°	3298.4	3292.6	3294.6	3308.2	3306.2	3296.5	3273.0	3232.1	3222.3	3206.7	3189.2
20°	3417.5	3407.7	3403.8	3409.7	3419.4	3427.3	3380.4	3364.8	3331.6	3306.2	3276.9
22.5°	3519.0	3515.0	3530.7	3505.3	3526.8	3550.2	3505.3	3497.5	3415.5	3401.9	3370.7
25°	3659.5	3653.6	3643.8	3681.0	3706.3	3704.4	3661.5	3618.5	3556.1	3540.4	3540.4
27.5°	3807.8	3774.6	3825.4	3835.1	3880.1	3893.7	3856.6	3794.2	3735.6	3702.4	3710.2
30°	3993.2	3962.0	3973.7	4044.0	4102.5	4153.3	4059.6	3967.9	3885.9	3827.3	3817.6
32.5°	4178.6	4147.4	4182.6	4250.8	4368.0	4444.1	4352.4	4192.3	4096.7	4010.8	4028.4
35°	4329.0	4352.4	4409.0	4512.4	4633.4	4756.3	4610.0	4487.1	4350.4	4254.7	4268.4
37.5°	4570.9	4643.2	4688.1	4807.1	4978.9	5105.7	4953.5	4793.4	4647.1	4522.1	4479.2
40°	4887.1	4936.0	4986.7	5127.2	5330.2	5457.0	5312.6	5103.8	4959.4	4830.6	4824.7
42.5°	5234.5	5281.4	5334.1	5505.8	5626.9	5722.5	5589.8	5478.5	5318.4	5217.0	5211.1
45°	5638.5	5605.3	5663.9	5777.1	5878.6	5941.1	5855.2	5800.5	5685.4	5591.7	5581.9
47.5°	5907.9	5878.6	5984.0	6085.5	6101.1	6032.8	6050.4	6101.1	5980.1	5825.9	5874.7
50°	6064.0	6064.0	6134.3	6228.0	6198.7	6110.8	6249.4	6253.4	6132.3	5995.7	5995.7
52.5°	5792.7	5853.2	6052.3	6358.7	6456.3	6481.7	6450.4	6317.7	6001.5	5722.5	5708.8
55°	5047.1	5033.5	5302.9	6005.5	6573.4	6874.0	6475.8	5865.0	5222.8	4908.6	4877.4
57.5°	3282.8	3298.4	3700.5	4416.7	5441.5	6001.5	5330.2	4471.4	3700.5	3267.2	3308.2
60°	1477.4	1530.1	1774.1	2308.9	3189.2	3645.8	3196.9	2426.0	1862.0	1616.0	1637.5
62.5°	849.0	858.8	868.5	1030.5	1358.4	1606.2	1411.1	1089.1	960.3	917.3	917.3
65°	716.3	710.4	712.4	726.1	761.2	811.9	790.4	761.2	765.1	761.2	755.3
67.5°	608.9	616.8	610.9	620.7	622.6	630.4	644.1	655.8	657.7	661.6	657.7
70°	499.6	501.6	505.5	513.3	515.3	521.1	540.7	550.4	556.2	556.2	564.1
72.5°	382.6	380.6	384.5	392.3	402.1	404.0	421.6	435.3	443.0	433.3	435.3
75°	251.7	253.7	259.6	265.4	279.1	292.8	298.6	312.3	314.2	318.1	308.3
77.5°	150.3	154.2	160.0	171.8	183.5	195.2	208.8	218.6	222.5	218.6	206.9
80°	97.6	97.6	105.4	115.2	128.8	138.6	146.3	154.2	160.0	154.2	150.3
82.5°	60.5	60.5	70.2	82.0	91.8	97.6	109.3	119.1	124.9	121.0	115.2
85°	31.2	33.2	41.0	50.7	58.6	62.5	60.5	54.7	48.8	46.8	42.9
87.5°	9.8	9.8	11.7	11.7	9.8	9.8	11.7	9.8	11.7	11.7	11.7
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)