

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: P531811

Luminaire Tested: **GALN-SA7A-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16086 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

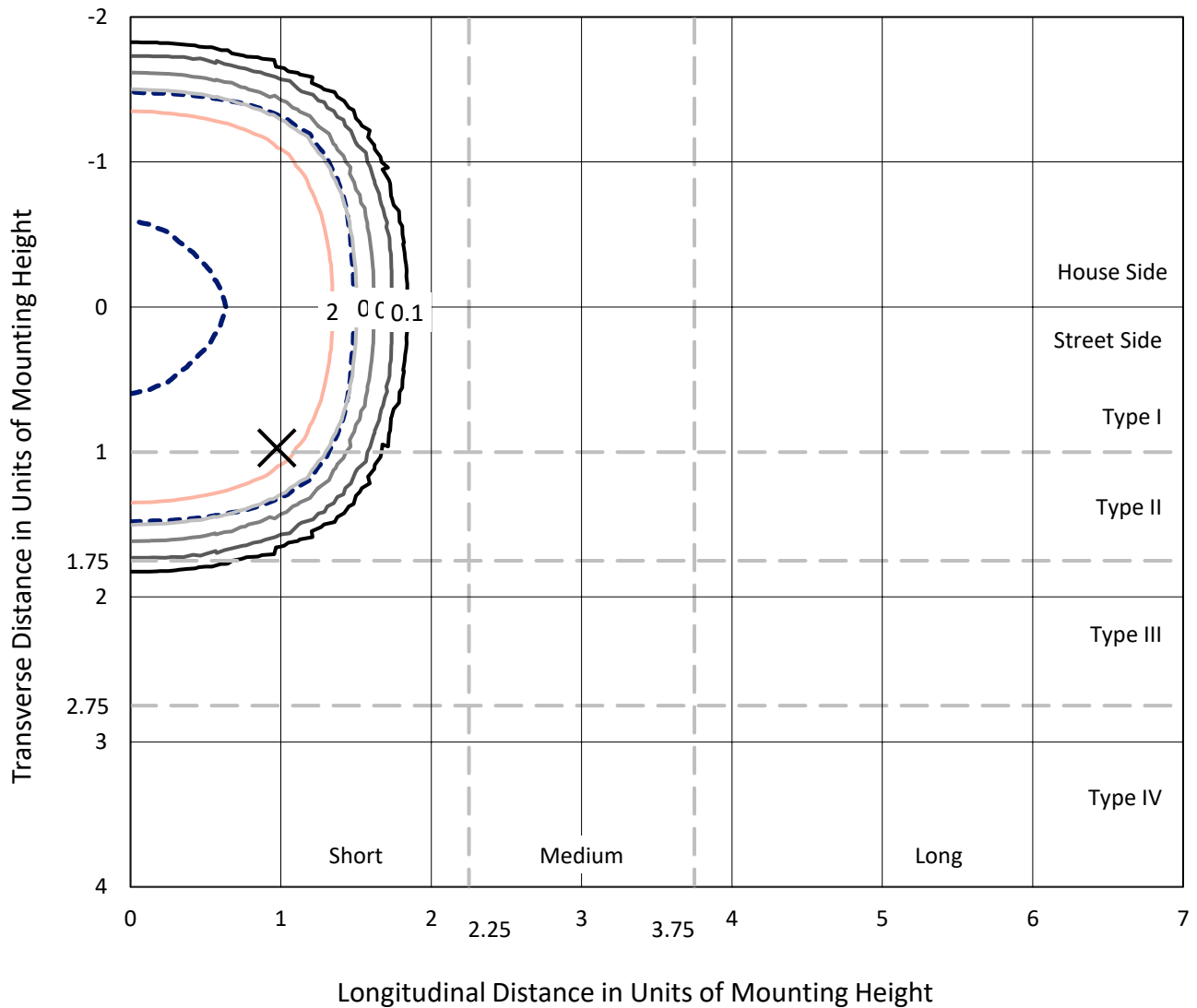
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531811
 CATALOG NUMBER: GALN-SA7A-827-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

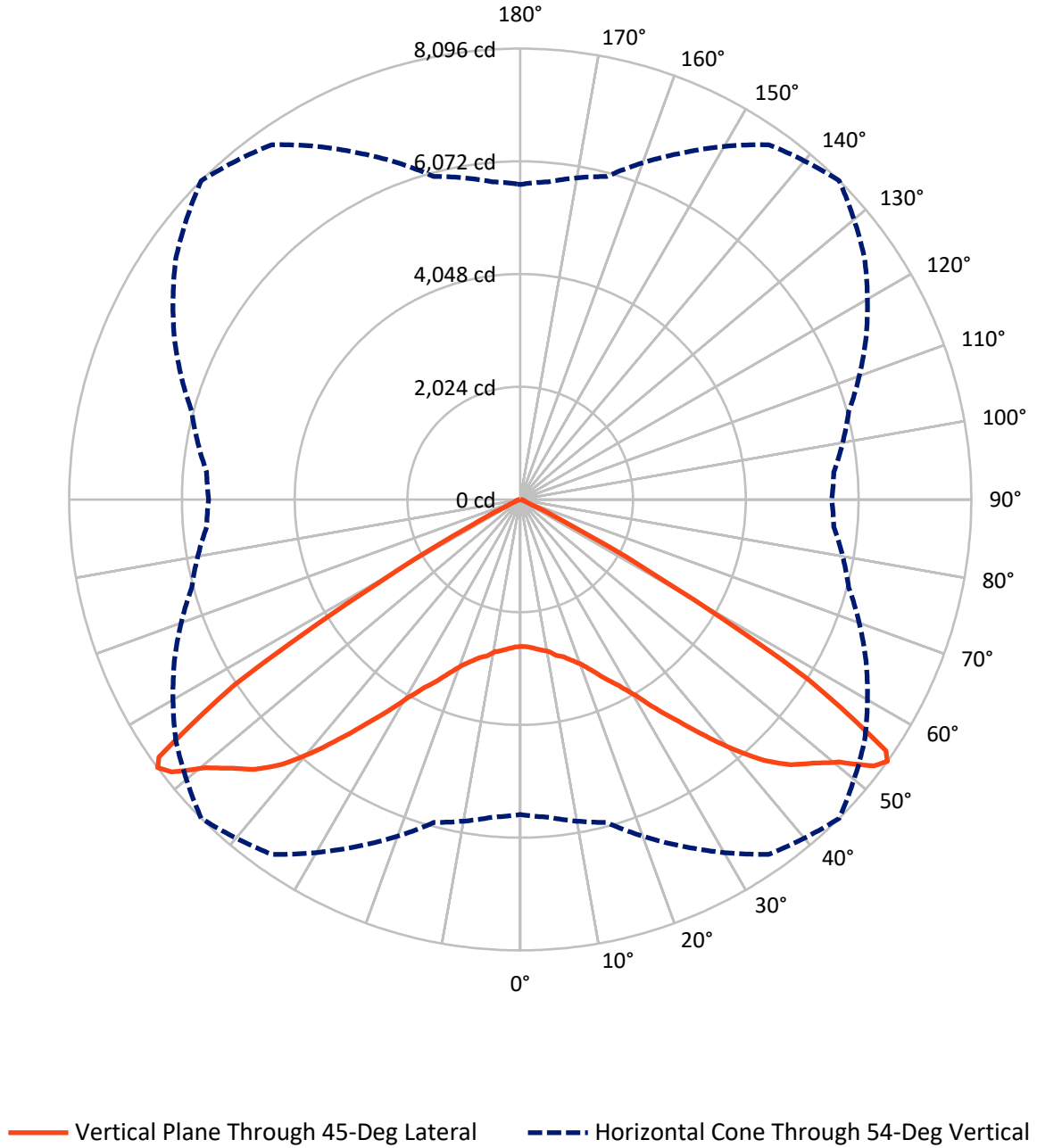
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

REPORT NUMBER: P531811
CATALOG NUMBER: GALN-SA7A-827-U-5NQ-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P531811
 CATALOG NUMBER: GALN-SA7A-827-U-5NQ-GRSBK

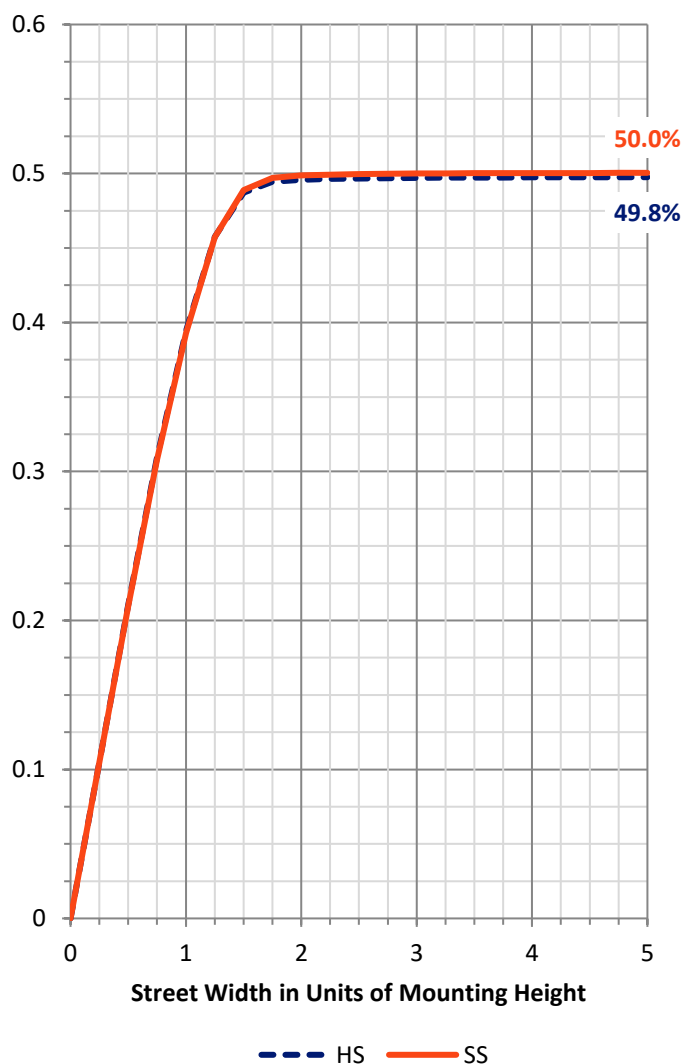
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8043.0	0.0	8043.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8043.0	0.0	8043.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16086.0	0.0	16086.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	1.6
10°-20°	836.0	5.2
20°-30°	1638.5	10.2
30°-40°	2946.4	18.3
40°-50°	5043.7	31.4
50°-60°	4880.3	30.3
60°-70°	417.8	2.6
70°-80°	49.5	0.3
80°-90°	15.5	0.1
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°	16086.0	100.0
0°-180°	16086.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531811

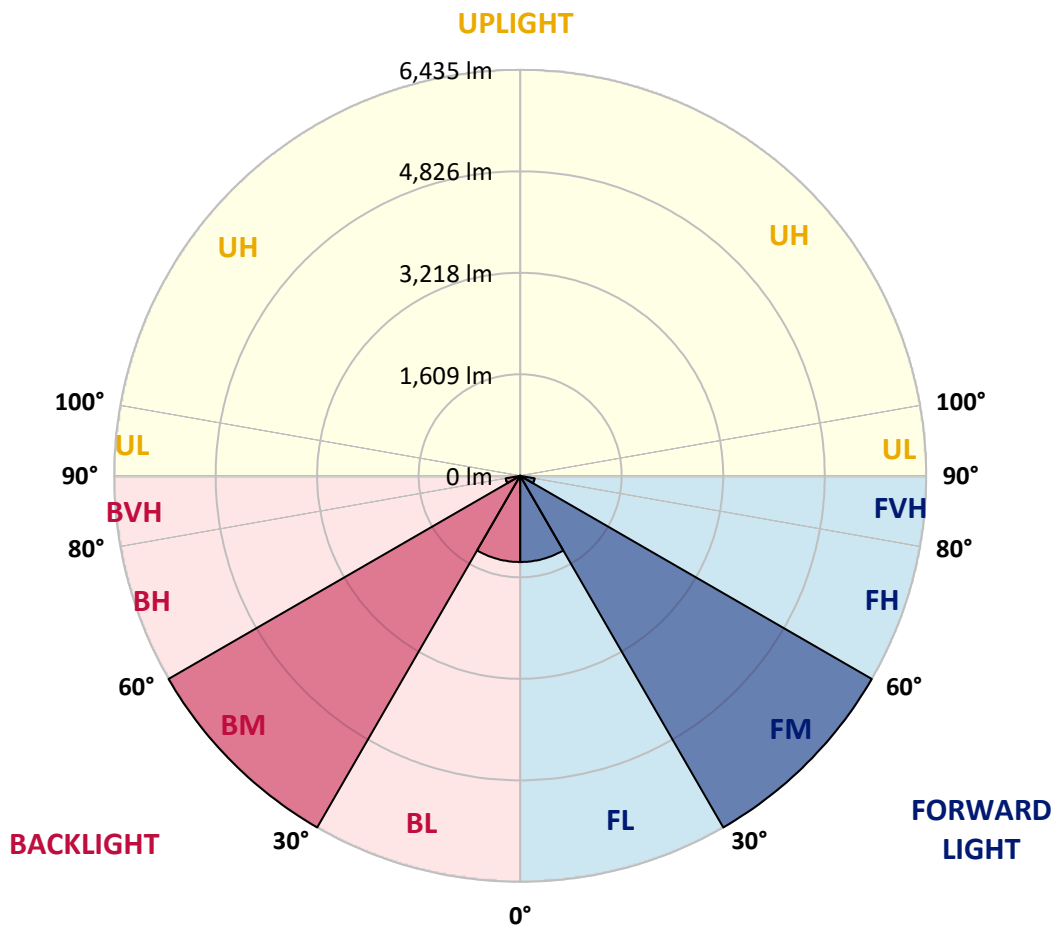
CATALOG NUMBER: GALN-SA7A-827-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1366.4	8.5			
FM (30°-60°)	6435.2	40.0			
FH (60°-80°)	233.6	1.5			G0/660
FVH (80°-90°)	7.8	0.0			G0/10
BL (0°-30°)	1366.4	8.5	B3/2500		
BM (30°-60°)	6435.2	40.0	B4/8500		
BH (60°-80°)	233.6	1.5	B1/500		G0/660
BVH (80°-90°)	7.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0

Type V Short





REPORT NUMBER: P531811

CATALOG NUMBER: GALN-SA7A-827-U-5NQ-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2637.6	2637.6	2637.6	2637.6	2637.6	2637.6	2637.6	2637.6	2637.6	2637.6	2637.6
2.5°	2650.3	2665.6	2655.4	2663.1	2663.1	2650.3	2658.0	2627.4	2647.8	2632.5	2635.1
5°	2691.1	2688.6	2688.6	2691.1	2680.9	2686.0	2675.8	2665.6	2658.0	2647.8	2678.4
7.5°	2742.1	2742.1	2724.2	2729.3	2724.2	2731.9	2711.5	2691.1	2683.5	2675.8	2670.7
10°	2790.5	2785.4	2777.8	2800.7	2782.9	2772.7	2762.5	2749.7	2721.7	2711.5	2701.3
12.5°	2861.9	2859.3	2849.1	2872.1	2861.9	2872.1	2833.8	2800.7	2795.6	2762.5	2780.3
15°	2946.0	2968.9	2951.1	2951.1	2946.0	2933.2	2917.9	2902.6	2856.8	2844.0	2846.6
17.5°	3055.5	3047.9	3050.4	3050.4	3075.9	3042.8	3012.2	2974.0	2951.1	2943.4	2917.9
20°	3160.0	3170.2	3167.7	3185.5	3200.8	3165.1	3132.0	3126.9	3063.2	3073.4	3037.7
22.5°	3343.5	3335.9	3348.6	3361.4	3351.2	3346.1	3315.5	3277.3	3221.2	3195.7	3190.6
25°	3537.2	3524.4	3501.5	3532.1	3547.4	3570.3	3511.7	3491.3	3404.7	3366.4	3369.0
27.5°	3702.8	3720.7	3746.2	3758.9	3797.1	3789.5	3748.7	3682.5	3616.2	3572.9	3544.8
30°	3929.6	3939.8	3983.2	4001.0	4067.3	4085.1	4021.4	3944.9	3827.7	3771.6	3738.5
32.5°	4138.6	4210.0	4207.4	4296.6	4403.6	4477.6	4362.9	4245.6	4128.4	4062.2	4003.5
35°	4477.6	4464.8	4538.7	4633.0	4806.3	4890.4	4765.5	4630.5	4452.1	4345.0	4299.2
37.5°	4793.6	4798.7	4898.0	5048.4	5247.2	5377.1	5267.6	5045.8	4862.4	4724.7	4661.0
40°	5252.3	5262.5	5364.4	5535.1	5759.4	5899.6	5772.1	5547.9	5303.2	5196.2	5196.2
42.5°	5790.0	5833.3	5899.6	6047.4	6248.7	6404.2	6289.5	6113.6	5866.4	5728.8	5749.2
45°	6343.0	6363.4	6406.7	6625.9	6720.2	6796.6	6689.6	6608.0	6442.4	6274.2	6246.1
47.5°	6860.3	6868.0	6995.4	7064.2	7138.1	7074.4	7143.2	7036.2	6850.1	6687.0	6653.9
50°	7089.7	7076.9	7257.9	7466.8	7522.9	7410.8	7352.2	7280.8	6997.9	6801.7	6715.1
52.5°	6422.0	6495.9	6832.3	7413.3	7851.6	7945.9	7604.5	7275.7	6748.2	6365.9	6307.3
54°	5657.5	5726.3	6004.1	6865.4	7777.7	8096.3	7545.8	6847.6	6103.4	5649.8	5591.2
55°	4900.6	4824.1	5328.7	6207.9	7431.2	7963.8	7313.9	6294.6	5443.4	5028.0	4946.5
57.5°	2652.9	2665.6	3091.2	3922.0	5221.7	6106.0	5392.4	4258.4	3216.1	2749.7	2709.0
60°	841.0	861.4	1047.4	1585.1	2494.9	2979.1	2553.5	1710.0	1182.5	948.0	909.8
62.5°	262.5	272.7	298.2	443.4	683.0	976.0	764.5	458.7	341.5	313.5	318.6
65°	160.5	160.5	163.1	173.3	203.9	237.0	229.4	201.3	193.7	188.6	186.0
67.5°	104.5	101.9	107.0	114.7	119.8	122.3	130.0	137.6	135.1	130.0	130.0
70°	63.7	61.2	66.3	76.5	79.0	84.1	91.7	101.9	99.4	94.3	96.8
72.5°	35.7	35.7	38.2	45.9	53.5	58.6	66.3	73.9	76.5	73.9	73.9
75°	12.7	15.3	20.4	28.0	33.1	40.8	48.4	56.1	63.7	58.6	56.1
77.5°	5.1	5.1	10.2	17.8	25.5	33.1	45.9	53.5	58.6	53.5	48.4
80°	2.5	2.5	7.6	15.3	22.9	30.6	38.2	45.9	48.4	43.3	38.2
82.5°	2.5	2.5	7.6	15.3	22.9	28.0	40.8	45.9	51.0	45.9	38.2
85°	0.0	2.5	7.6	15.3	20.4	22.9	22.9	15.3	12.7	7.6	7.6
87.5°	0.0	0.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)