

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: P647859

Luminaire Tested: **GALN-SA4A-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647859
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-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 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: 12503 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

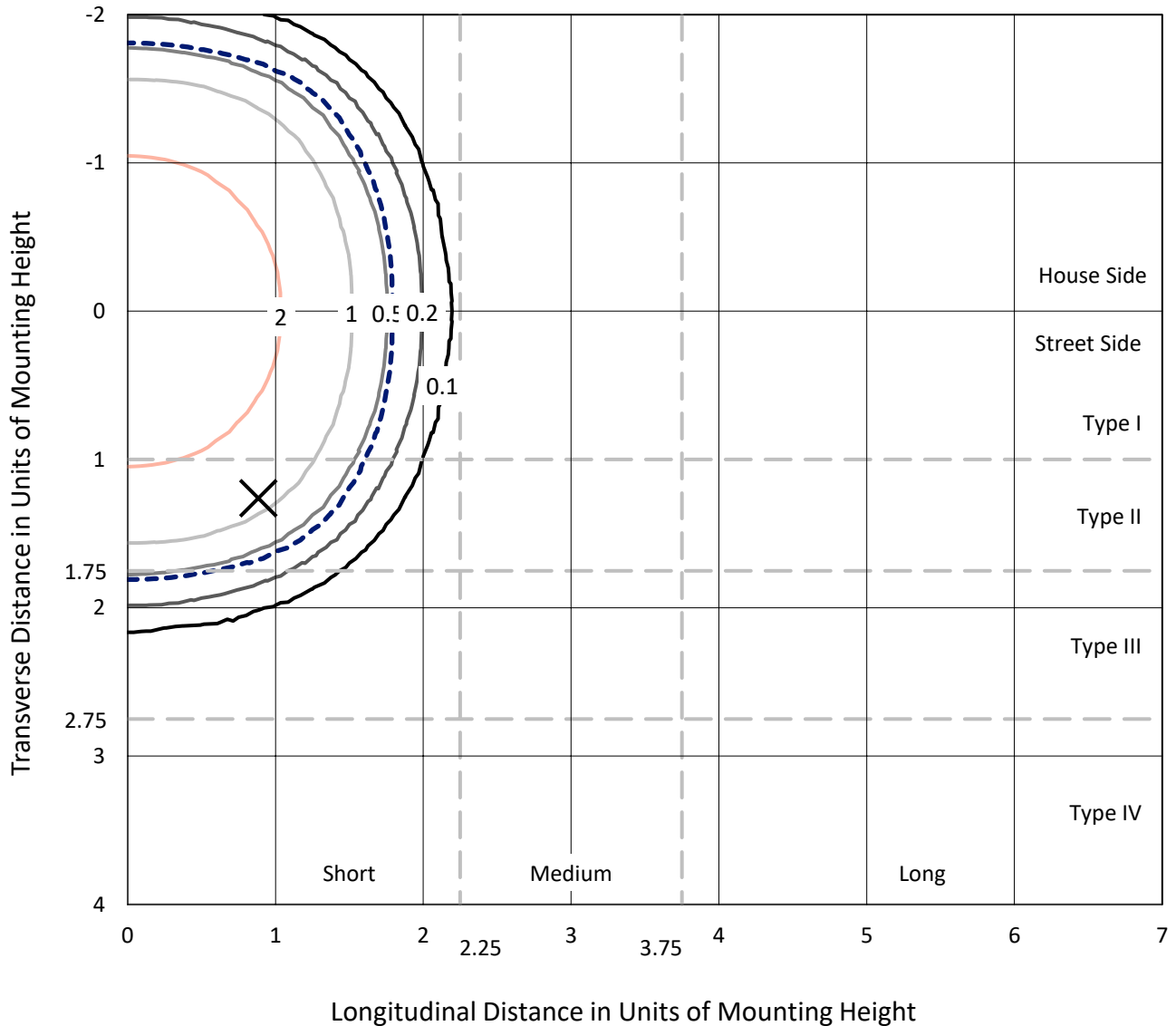
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647859
 CATALOG NUMBER: GALN-SA4A-835-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

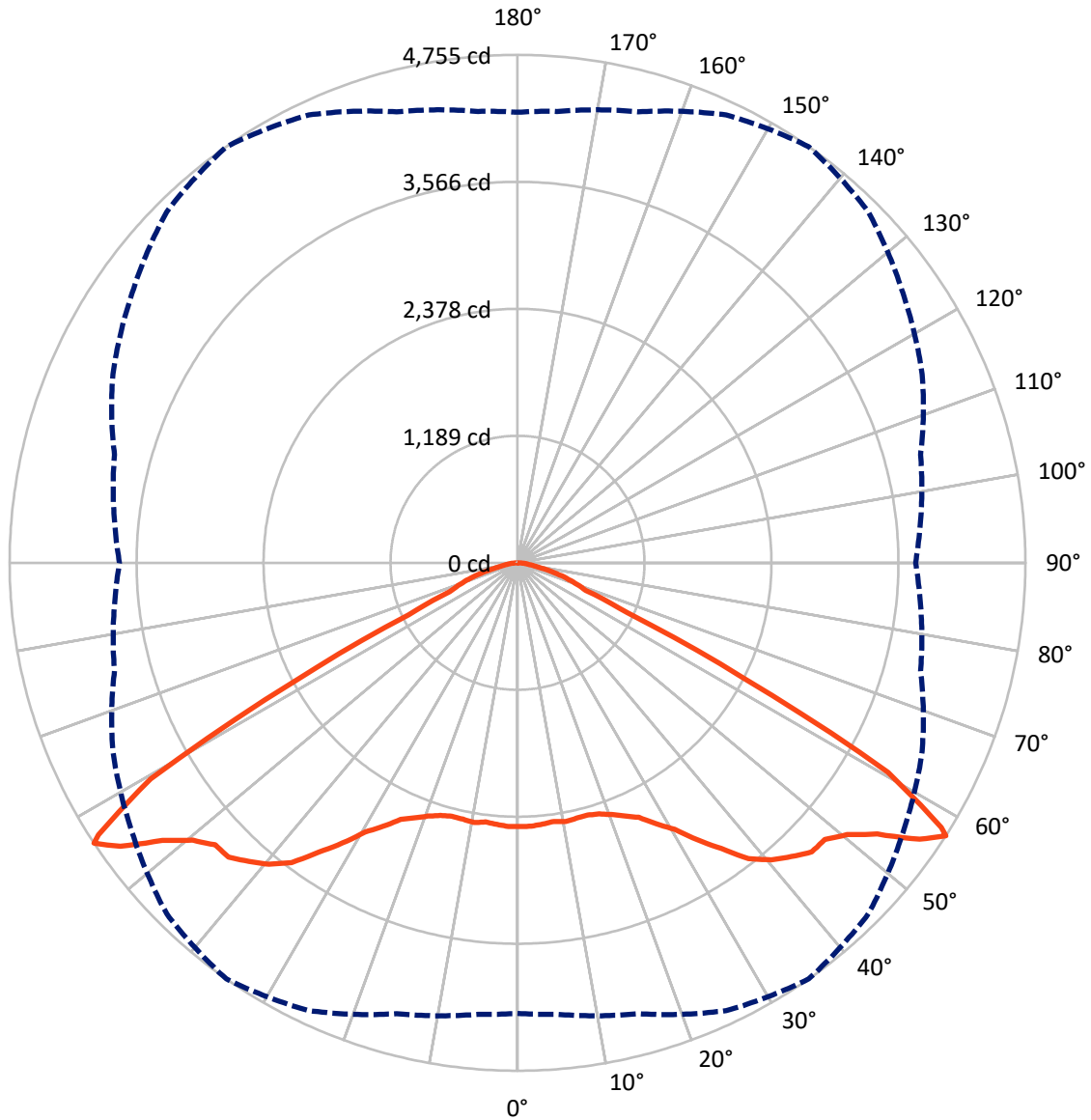
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647859
CATALOG NUMBER: GALN-SA4A-835-U-5MQ-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P647859
 CATALOG NUMBER: GALN-SA4A-835-U-5MQ-GRSWH

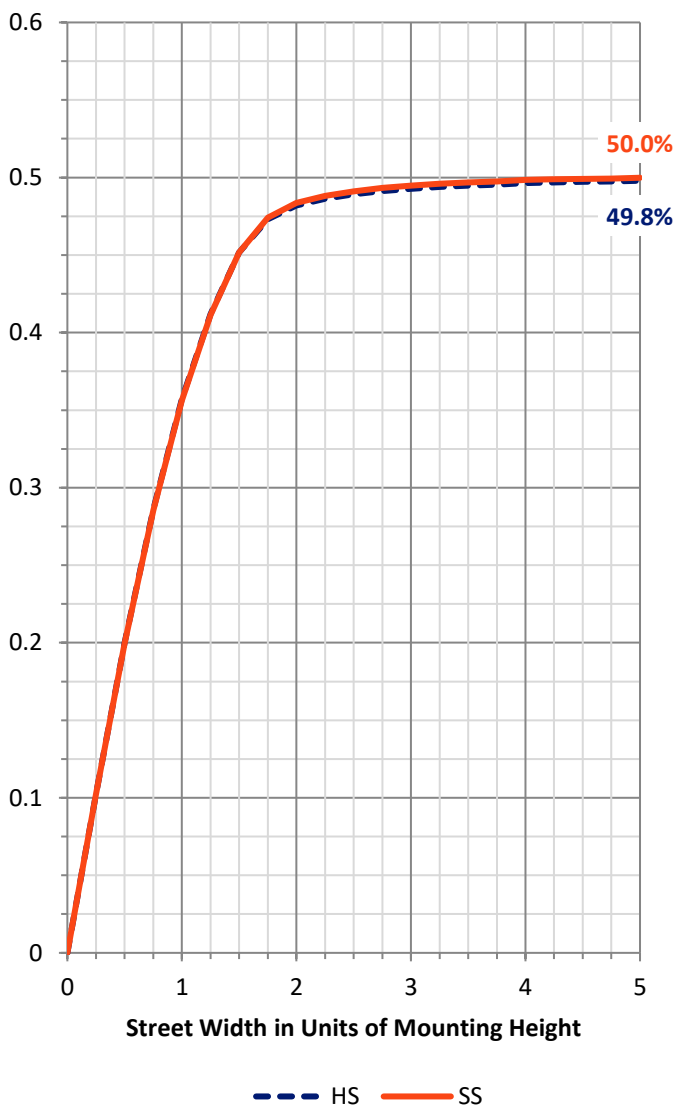
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6251.5	0.0	6251.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6251.5	0.0	6251.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12503.0	0.0	12503.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.1	1.9
10°-20°	693.3	5.5
20°-30°	1210.9	9.7
30°-40°	1984.0	15.9
40°-50°	2909.1	23.3
50°-60°	3664.2	29.3
60°-70°	1378.1	11.0
70°-80°	366.4	2.9
80°-90°	62.8	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°	12503.0	100.0
0°-180°	12503.0	100.0

Coefficient of Utilization



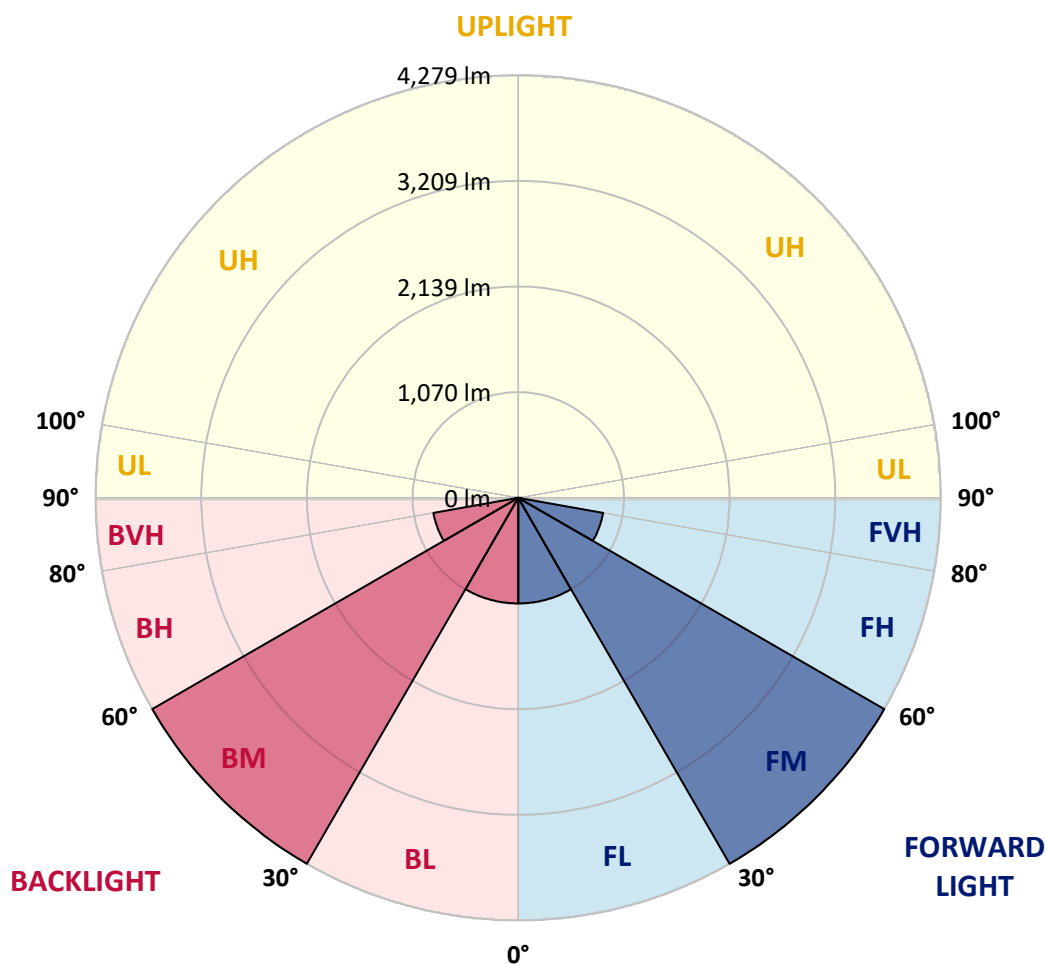
REPORT NUMBER: P647859
 CATALOG NUMBER: GALN-SA4A-835-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1069.1	8.6			
FM (30°-60°)	4278.7	34.2			
FH (60°-80°)	872.3	7.0			G1/1800
FVH (80°-90°)	31.4	0.3			G1/100
BL (0°-30°)	1069.1	8.6	B3/2500		
BM (30°-60°)	4278.7	34.2	B3/5000		
BH (60°-80°)	872.3	7.0	B2/1000		G1/1800
BVH (80°-90°)	31.4	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





REPORT NUMBER: P647859

CATALOG NUMBER: GALN-SA4A-835-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2469.3	2469.3	2469.3	2469.3	2469.3	2469.3	2469.3	2469.3	2469.3	2469.3	2469.3
2.5°	2456.9	2481.6	2470.8	2464.6	2469.3	2461.5	2449.2	2463.1	2460.0	2447.7	2443.0
5°	2450.8	2469.3	2456.9	2469.3	2456.9	2478.5	2472.3	2449.2	2476.9	2450.8	2460.0
7.5°	2446.2	2452.3	2455.4	2449.2	2444.6	2470.8	2456.9	2446.2	2430.7	2426.1	2433.8
10°	2435.4	2450.8	2427.6	2458.5	2464.6	2446.2	2446.2	2426.1	2413.8	2406.1	2432.2
12.5°	2463.1	2436.9	2433.8	2449.2	2453.8	2461.5	2440.0	2429.2	2406.1	2409.1	2404.5
15°	2430.7	2441.6	2443.0	2446.2	2450.8	2469.3	2449.2	2426.1	2416.9	2384.5	2387.6
17.5°	2443.0	2432.2	2443.0	2478.5	2472.3	2486.2	2464.6	2429.2	2407.6	2389.2	2413.8
20°	2464.6	2460.0	2464.6	2507.7	2515.5	2527.8	2509.3	2476.9	2435.4	2413.8	2426.1
22.5°	2487.7	2484.6	2487.7	2529.3	2574.0	2589.4	2570.9	2495.4	2473.9	2433.8	2419.9
25°	2529.3	2532.4	2564.7	2611.0	2640.2	2669.5	2635.6	2581.7	2512.3	2487.7	2458.5
27.5°	2621.7	2629.5	2647.9	2715.7	2766.5	2792.7	2745.0	2671.0	2627.9	2577.1	2569.3
30°	2735.7	2735.7	2768.1	2826.6	2895.9	2936.0	2877.4	2789.7	2737.3	2709.6	2692.6
32.5°	2886.7	2869.8	2882.1	2985.3	3093.1	3127.0	3048.5	2940.6	2857.4	2820.4	2808.2
35°	3016.0	3026.8	3054.6	3165.5	3285.6	3364.2	3241.0	3100.8	3016.0	2982.2	2976.0
37.5°	3184.0	3202.5	3216.3	3368.9	3513.6	3542.9	3424.3	3311.9	3208.7	3180.9	3165.5
40°	3421.2	3408.9	3413.5	3525.9	3656.8	3675.3	3558.3	3478.2	3393.4	3376.5	3376.5
42.5°	3616.8	3603.0	3618.4	3660.0	3760.0	3746.2	3681.5	3623.0	3587.5	3569.1	3587.5
45°	3735.5	3732.3	3760.0	3790.9	3861.8	3815.6	3764.7	3774.0	3740.1	3709.2	3707.7
47.5°	3864.8	3844.8	3878.7	3924.9	3871.0	3849.5	3846.3	3866.4	3855.6	3801.7	3784.7
50°	3928.0	3920.2	3974.2	4028.1	3998.9	3949.5	3960.3	3992.7	3854.1	3781.7	3740.1
52.5°	4097.4	4099.0	4202.2	4231.4	4219.1	4146.7	4169.8	4082.0	3918.8	3817.0	3821.7
55°	4363.9	4353.2	4468.7	4554.9	4568.8	4476.3	4365.5	4242.2	4037.4	3934.2	3903.3
57°	4217.6	4242.2	4370.1	4625.8	4755.2	4645.8	4404.0	4179.1	3906.4	3781.7	3726.2
57.5°	4022.0	4062.0	4283.8	4541.1	4676.6	4667.4	4356.2	4062.0	3818.6	3624.5	3629.1
60°	2946.7	2954.5	3154.7	3562.9	3986.5	3995.7	3616.8	3227.1	2956.0	2745.0	2774.2
62.5°	1554.3	1589.6	1669.7	1997.9	2364.5	2453.8	2224.3	2024.1	1789.9	1629.7	1645.2
65°	822.5	817.9	856.4	948.8	1129.1	1175.3	1144.5	985.9	904.2	878.1	879.5
67.5°	668.5	676.2	671.6	676.2	688.6	708.6	704.0	710.1	714.7	722.5	720.9
70°	566.9	566.9	569.9	571.5	571.5	580.8	591.5	611.5	613.1	620.8	623.9
72.5°	446.7	443.6	448.3	459.1	460.6	468.3	483.7	496.0	500.7	500.7	491.4
75°	303.5	306.5	312.7	322.0	331.2	345.1	357.4	365.0	368.2	363.5	358.9
77.5°	171.0	174.1	178.7	192.5	203.3	215.6	229.5	237.2	244.9	246.5	237.2
80°	101.6	101.6	109.4	120.1	132.5	144.8	157.1	166.4	169.4	169.4	164.8
82.5°	61.6	63.2	69.3	80.1	90.9	98.6	109.4	117.1	123.2	121.7	118.6
85°	32.3	32.3	38.5	47.8	55.4	63.2	63.2	58.6	55.4	47.8	44.7
87.5°	10.8	9.2	12.3	12.3	10.8	12.3	12.3	13.9	13.9	13.9	13.9
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)