

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: P646931

Luminaire Tested: **GALN-SA5C-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646931
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-SA5C-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28852.7 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

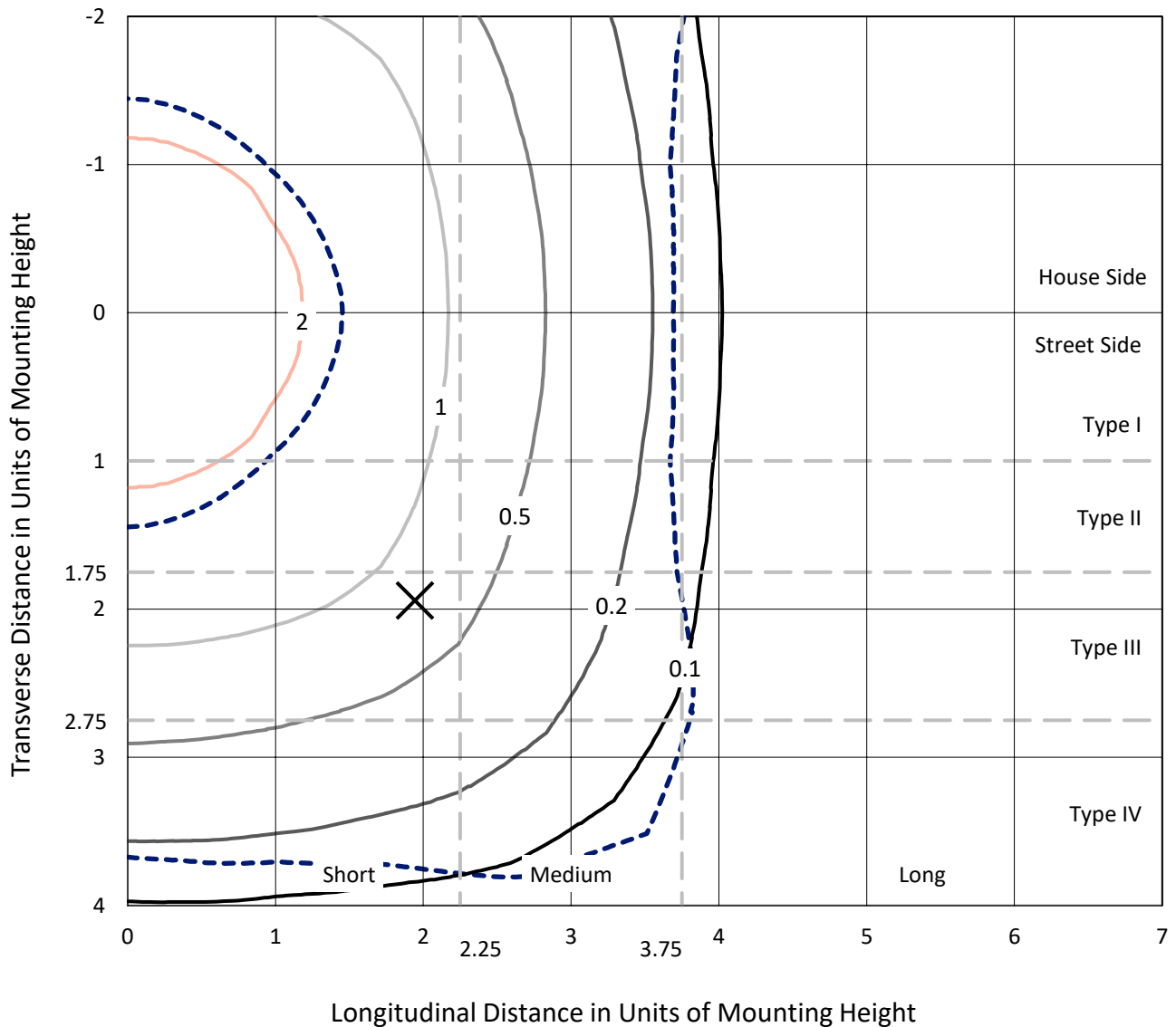
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P646931
 CATALOG NUMBER: GALN-SA5C-835-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

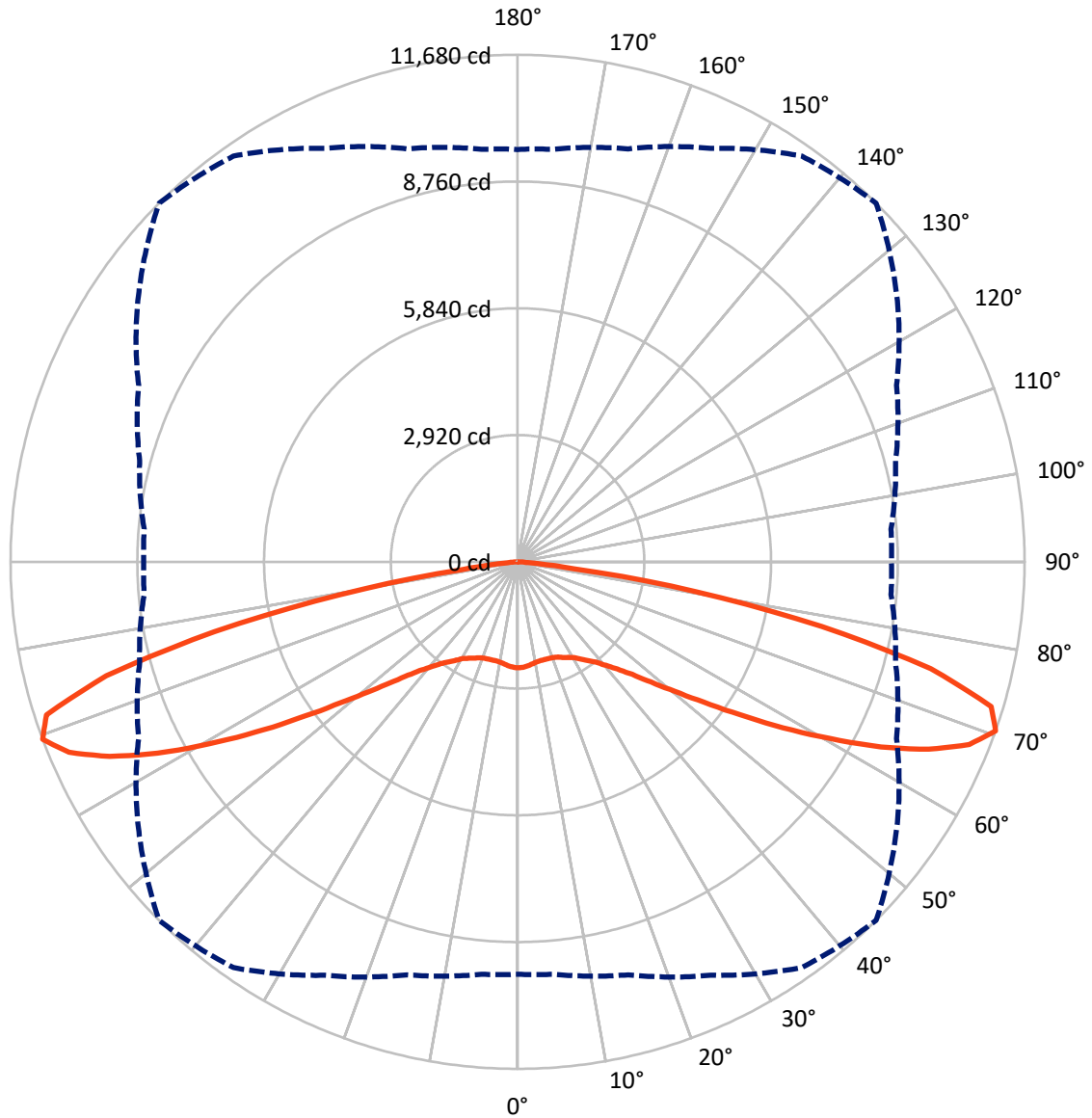
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

REPORT NUMBER: P646931
CATALOG NUMBER: GALN-SA5C-835-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P646931
 CATALOG NUMBER: GALN-SA5C-835-U-5WQ

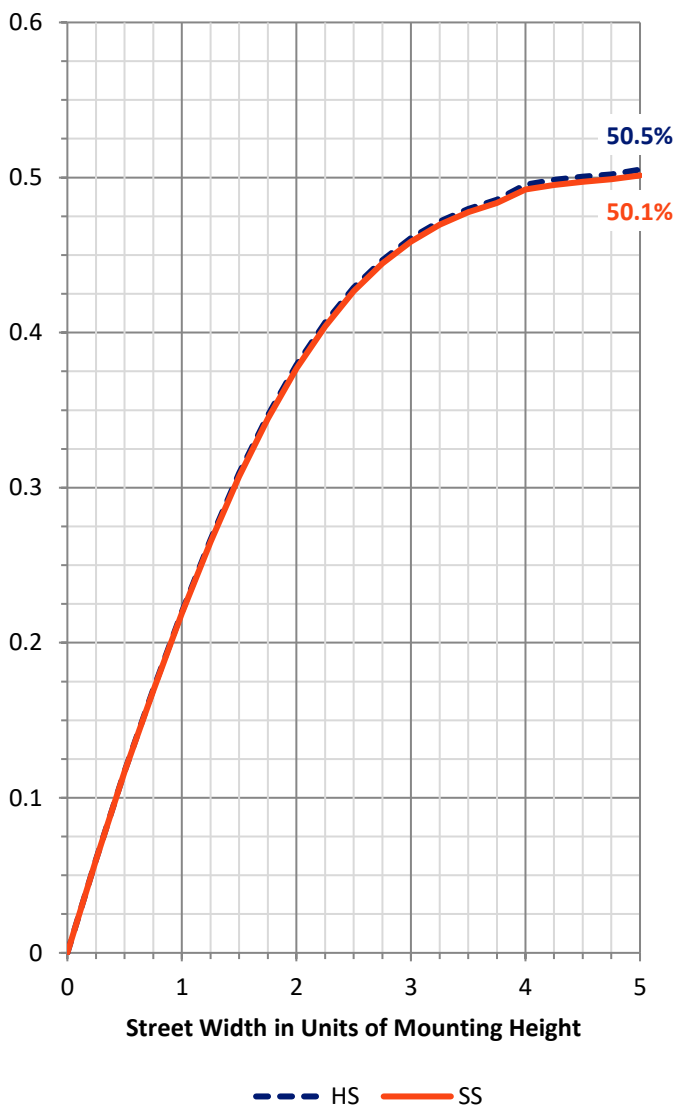
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14426.4	0.0	14426.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14426.4	0.0	14426.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	28852.7	0.0	28852.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.4	0.8
10°-20°	668.8	2.3
20°-30°	1139.4	3.9
30°-40°	1766.1	6.1
40°-50°	2972.6	10.3
50°-60°	5408.6	18.7
60°-70°	9156.6	31.7
70°-80°	7087.5	24.6
80°-90°	424.7	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°	28852.7	100.0
0°-180°	28852.7	100.0

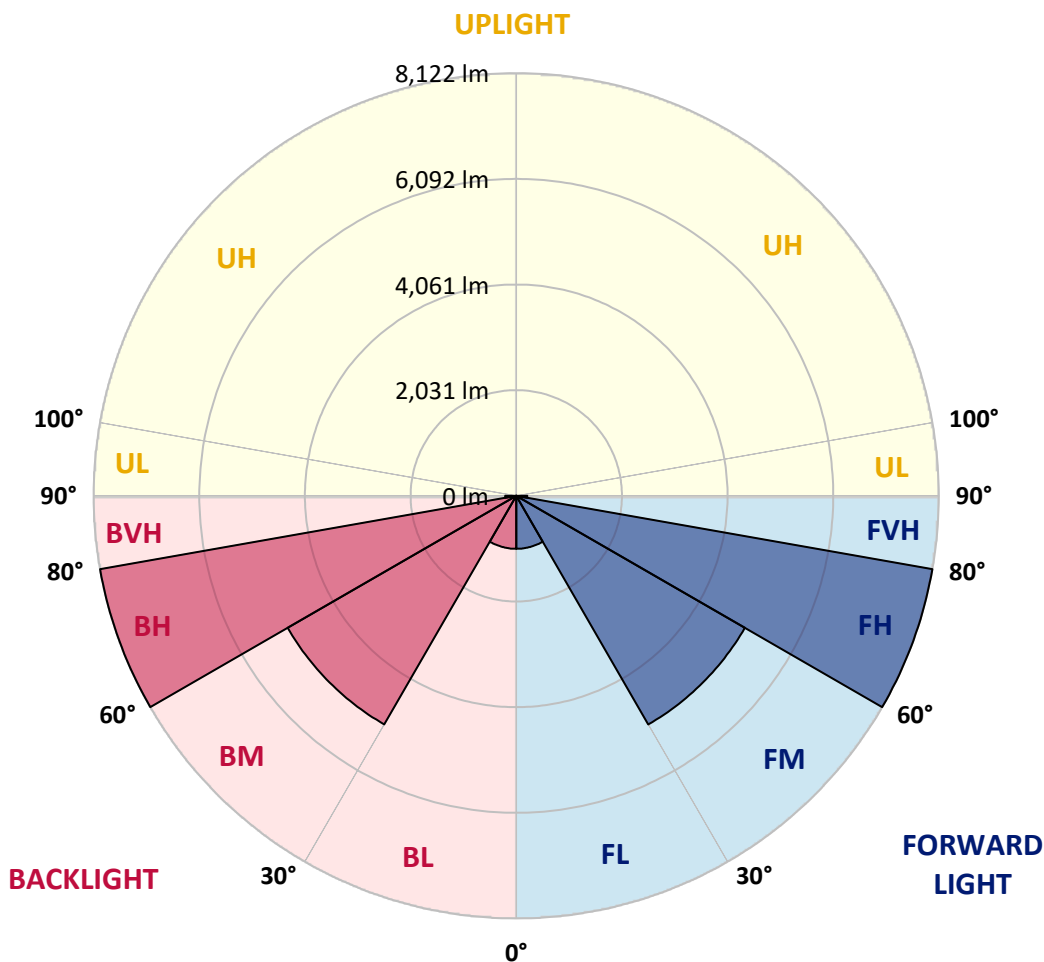


REPORT NUMBER: P646931
 CATALOG NUMBER: GALN-SA5C-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1018.3	3.5			
FM (30°-60°)	5073.7	17.6			
FH (60°-80°)	8122.0	28.1			G4/12000
FVH (80°-90°)	212.3	0.7			G2/225
BL (0°-30°)	1018.3	3.5	B3/2500		
BM (30°-60°)	5073.7	17.6	B4/8500		
BH (60°-80°)	8122.0	28.1	B5		G4/12000
BVH (80°-90°)	212.3	0.7			G2/225
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





REPORT NUMBER: P646931
 CATALOG NUMBER: GALN-SA5C-835-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7	2442.7
2.5°	2436.6	2438.2	2438.2	2435.1	2433.6	2433.6	2432.1	2432.1	2436.6	2438.2	2439.7
5°	2415.3	2415.3	2415.3	2413.8	2410.7	2410.7	2407.7	2407.7	2409.2	2413.8	2410.7
7.5°	2386.3	2389.4	2389.4	2383.3	2378.8	2378.8	2377.2	2378.8	2380.2	2384.9	2383.3
10°	2377.2	2378.8	2371.1	2360.4	2352.8	2348.3	2349.8	2352.8	2360.4	2363.5	2365.1
12.5°	2383.3	2383.3	2369.6	2354.3	2340.6	2334.5	2333.0	2343.7	2357.4	2366.5	2369.6
15°	2390.9	2387.9	2371.1	2351.3	2337.6	2336.1	2334.5	2342.2	2362.0	2380.2	2381.8
17.5°	2395.5	2393.9	2372.6	2348.3	2340.6	2340.6	2339.1	2345.2	2366.5	2389.4	2390.9
20°	2410.7	2406.2	2381.8	2355.9	2349.8	2352.8	2348.3	2355.9	2378.8	2406.2	2412.3
22.5°	2441.2	2436.6	2412.3	2386.3	2383.3	2383.3	2381.8	2389.4	2413.8	2442.7	2447.3
25°	2477.8	2473.2	2450.3	2432.1	2435.1	2441.2	2438.2	2439.7	2459.5	2483.9	2491.5
27.5°	2526.6	2518.9	2499.1	2483.9	2493.0	2493.0	2493.0	2491.5	2503.7	2526.6	2534.2
30°	2586.0	2583.0	2561.6	2560.1	2567.7	2560.1	2560.1	2561.6	2563.2	2584.4	2592.0
32.5°	2663.7	2657.6	2646.9	2643.9	2665.3	2671.3	2650.0	2630.2	2640.8	2662.2	2666.7
35°	2791.7	2782.5	2767.4	2750.5	2767.4	2796.2	2750.5	2735.3	2762.7	2791.7	2794.8
37.5°	2965.5	2960.8	2936.5	2906.0	2904.5	2934.9	2887.7	2886.2	2938.0	2973.1	2977.6
40°	3183.4	3187.9	3157.4	3128.5	3113.2	3137.6	3101.1	3114.8	3165.0	3204.7	3201.6
42.5°	3489.6	3472.8	3425.6	3398.2	3381.5	3372.3	3363.1	3384.5	3440.9	3483.6	3517.1
45°	3847.7	3841.6	3782.2	3748.7	3712.1	3698.4	3695.4	3733.4	3802.0	3853.8	3858.4
47.5°	4253.1	4239.4	4201.3	4166.2	4152.5	4135.7	4120.5	4149.4	4218.0	4254.6	4265.2
50°	4670.6	4673.6	4673.6	4667.5	4681.3	4684.3	4643.2	4653.8	4692.0	4688.9	4685.9
52.5°	5147.6	5164.4	5243.6	5251.2	5316.7	5360.9	5286.3	5242.0	5228.3	5146.0	5152.1
55°	5708.4	5723.6	5842.4	5961.3	6138.1	6212.8	6055.8	5918.6	5821.1	5696.2	5702.3
57.5°	6407.8	6415.4	6528.2	6756.7	7037.1	7212.4	6936.6	6665.4	6467.3	6348.4	6301.1
60°	7160.6	7168.2	7332.8	7611.6	8047.5	8260.8	7919.5	7476.0	7226.2	7044.8	7056.9
62.5°	8064.3	8094.7	8242.6	8626.5	9155.3	9394.6	8942.0	8349.2	8010.9	7785.4	7794.5
65°	9031.9	9083.7	9245.2	9667.3	10155.0	10412.5	9857.8	9173.6	8753.0	8477.2	8506.2
67.5°	9659.7	9705.4	9938.6	10404.9	11012.9	11226.3	10510.1	9713.0	9187.3	8858.2	8797.2
70°	9499.7	9537.8	9848.7	10510.1	11410.7	11680.3	10665.5	9633.8	9015.1	8635.7	8611.3
72.5°	8385.8	8306.5	8760.7	9710.0	10956.5	11409.1	10176.3	8798.7	8020.0	7629.9	7584.2
75°	5557.5	5729.7	6400.2	7518.7	9269.6	9830.4	8686.0	7064.6	6084.8	5760.1	5709.9
77.5°	1857.6	1990.2	2586.0	4262.3	6319.4	7162.1	6328.6	4620.3	3268.6	2633.2	2645.4
80°	492.2	486.1	629.4	1171.8	2730.7	4147.9	3178.7	1565.0	856.4	620.2	588.2
82.5°	176.8	198.1	254.5	324.6	723.8	1289.2	909.8	438.9	321.5	237.7	230.1
85°	77.8	76.2	109.7	129.5	181.3	240.8	213.4	185.9	163.0	108.2	100.5
87.5°	16.8	16.8	25.9	19.8	32.0	32.0	39.6	47.2	48.8	32.0	25.9
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)