

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: P651991

Luminaire Tested: **GALN-SA7A-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651991
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-SA7A-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 28036.4 lumens
Efficiency: N/A
Efficacy: 130.4 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

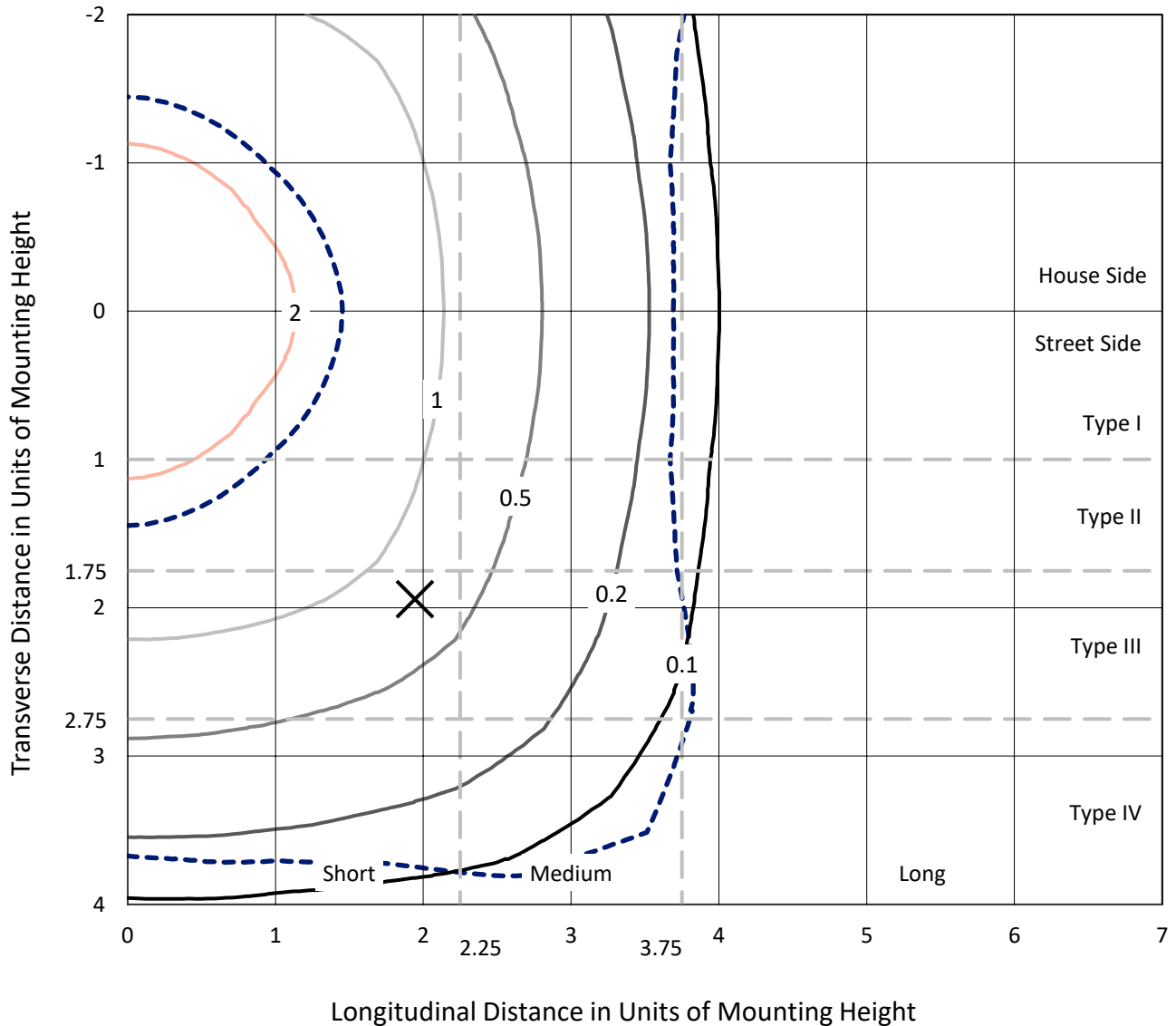
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651991
 CATALOG NUMBER: GALN-SA7A-840-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

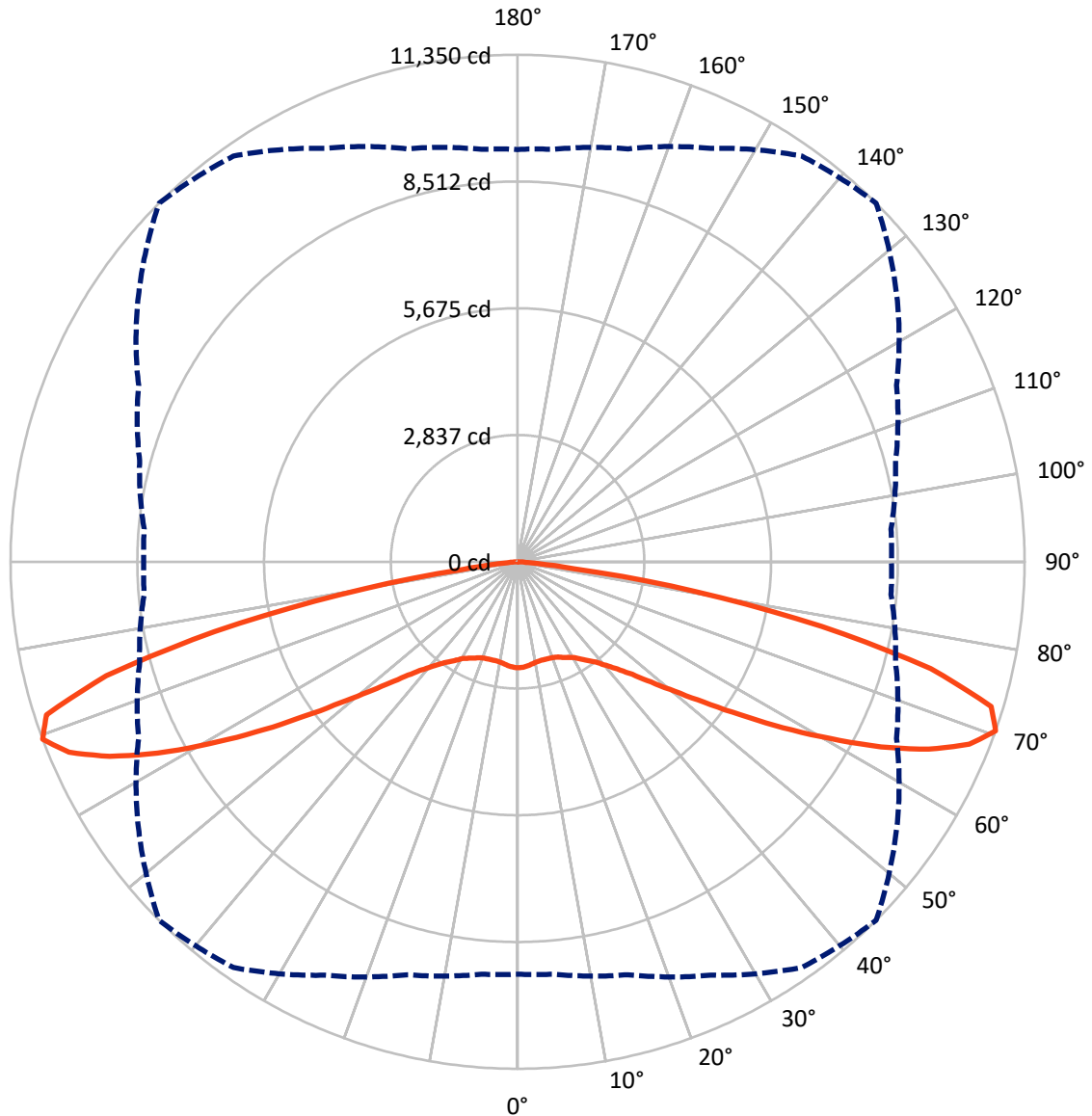
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type V - Short - N/A

REPORT NUMBER: P651991
CATALOG NUMBER: GALN-SA7A-840-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651991
 CATALOG NUMBER: GALN-SA7A-840-U-5WQ

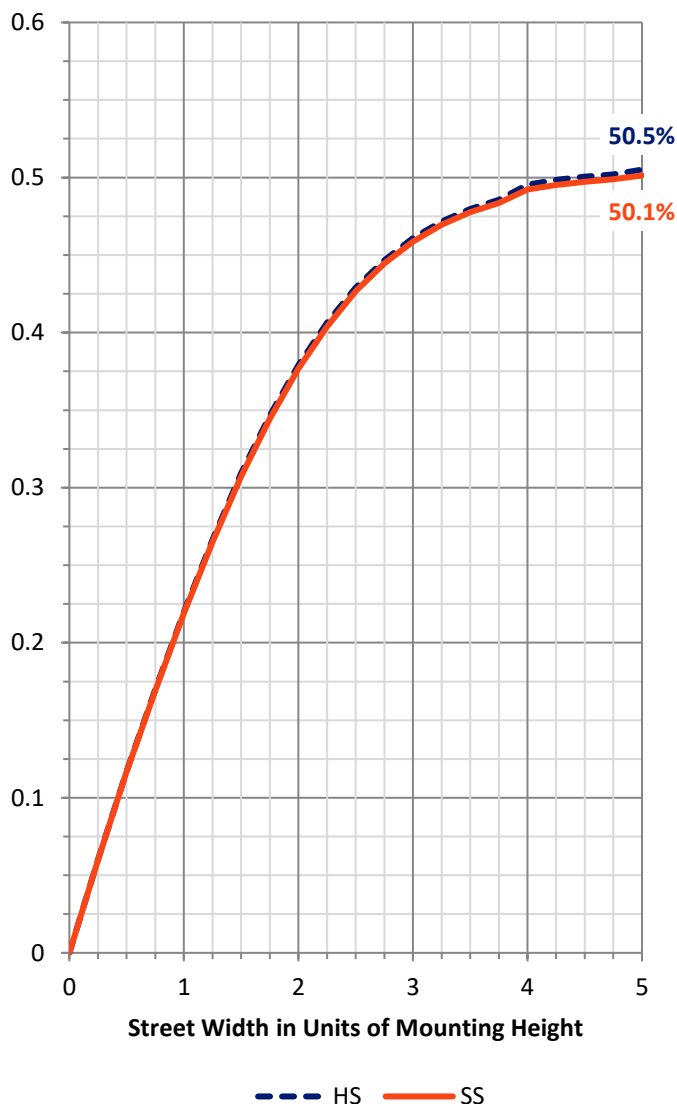
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14018.2	0.0	14018.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14018.2	0.0	14018.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	28036.4	0.0	28036.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	0.8
10°-20°	649.9	2.3
20°-30°	1107.2	3.9
30°-40°	1716.1	6.1
40°-50°	2888.5	10.3
50°-60°	5255.5	18.7
60°-70°	8897.5	31.7
70°-80°	6887.0	24.6
80°-90°	412.7	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°	28036.4	100.0
0°-180°	28036.4	100.0

Coefficient of Utilization



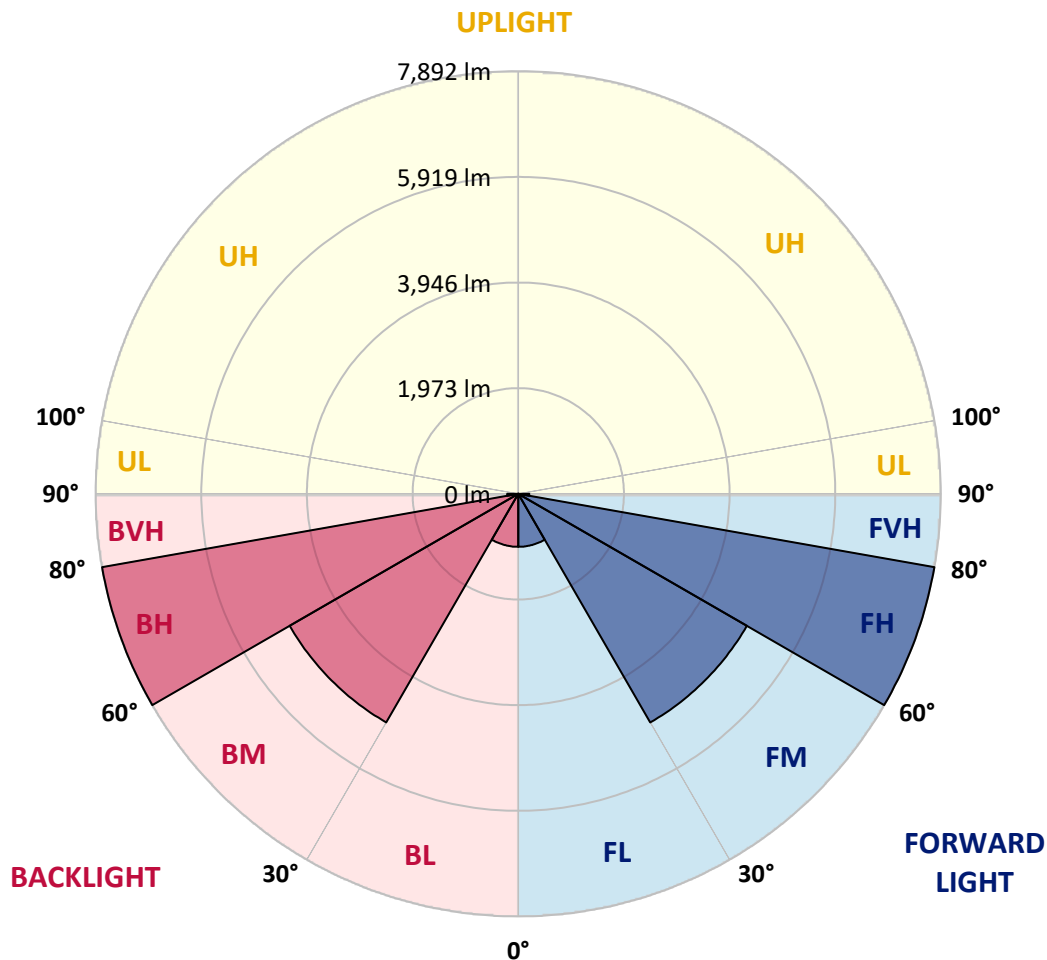
REPORT NUMBER: P651991
 CATALOG NUMBER: GALN-SA7A-840-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.5	3.5			
FM (30°-60°)	4930.1	17.6			
FH (60°-80°)	7892.2	28.2			G4/12000
FVH (80°-90°)	206.3	0.7			G2/225
BL (0°-30°)	989.5	3.5	B2/1000		
BM (30°-60°)	4930.1	17.6	B3/5000		
BH (60°-80°)	7892.2	28.2	B5		G4/12000
BVH (80°-90°)	206.3	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: P651991
 CATALOG NUMBER: GALN-SA7A-840-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6	2373.6
2.5°	2367.7	2369.2	2369.2	2366.2	2364.7	2364.7	2363.3	2363.3	2367.7	2369.2	2370.7
5°	2347.0	2347.0	2347.0	2345.5	2342.5	2342.5	2339.6	2339.6	2341.1	2345.5	2342.5
7.5°	2318.8	2321.8	2321.8	2315.9	2311.4	2311.4	2310.0	2311.4	2312.9	2317.4	2315.9
10°	2310.0	2311.4	2304.0	2293.7	2286.3	2281.8	2283.3	2286.3	2293.7	2296.6	2298.1
12.5°	2315.9	2315.9	2302.6	2287.8	2274.4	2268.5	2267.0	2277.3	2290.7	2299.6	2302.6
15°	2323.3	2320.3	2304.0	2284.7	2271.5	2269.9	2268.5	2275.9	2295.2	2312.9	2314.4
17.5°	2327.7	2326.2	2305.5	2281.8	2274.4	2274.4	2273.0	2278.9	2299.6	2321.8	2323.3
20°	2342.5	2338.1	2314.4	2289.2	2283.3	2286.3	2281.8	2289.2	2311.4	2338.1	2344.0
22.5°	2372.1	2367.7	2344.0	2318.8	2315.9	2315.9	2314.4	2321.8	2345.5	2373.6	2378.1
25°	2407.7	2403.2	2381.0	2363.3	2366.2	2372.1	2369.2	2370.7	2390.0	2413.6	2421.0
27.5°	2455.0	2447.6	2428.4	2413.6	2422.5	2422.5	2422.5	2421.0	2432.8	2455.0	2462.4
30°	2512.8	2509.9	2489.1	2487.7	2495.1	2487.7	2487.7	2489.1	2490.6	2511.3	2518.7
32.5°	2588.3	2582.4	2572.0	2569.1	2589.8	2595.7	2575.0	2555.8	2566.1	2586.8	2591.3
35°	2712.7	2703.8	2689.0	2672.7	2689.0	2717.2	2672.7	2657.9	2684.6	2712.7	2715.7
37.5°	2881.5	2877.1	2853.3	2823.7	2822.3	2851.9	2806.0	2804.5	2854.9	2888.9	2893.4
40°	3093.3	3097.7	3068.1	3040.0	3025.2	3048.9	3013.3	3026.6	3075.5	3114.0	3111.0
42.5°	3390.9	3374.6	3328.7	3302.0	3285.8	3276.9	3268.0	3288.7	3343.5	3384.9	3417.6
45°	3738.8	3732.9	3675.2	3642.6	3607.0	3593.8	3590.8	3627.8	3694.4	3744.8	3749.3
47.5°	4132.8	4119.4	4082.4	4048.3	4035.0	4018.7	4003.9	4032.1	4098.7	4134.2	4144.6
50°	4538.5	4541.4	4541.4	4535.5	4548.8	4551.8	4511.8	4522.1	4559.2	4556.2	4553.3
52.5°	5001.9	5018.2	5095.2	5102.6	5166.3	5209.2	5136.7	5093.8	5080.4	5000.4	5006.4
55°	5546.8	5561.6	5677.2	5792.6	5964.5	6037.0	5884.5	5751.2	5656.4	5535.0	5540.9
57.5°	6226.5	6233.9	6343.5	6565.6	6838.1	7008.3	6740.4	6476.8	6284.3	6168.7	6122.9
60°	6958.0	6965.4	7125.3	7396.3	7819.8	8027.1	7695.4	7264.5	7021.7	6845.5	6857.3
62.5°	7836.1	7865.7	8009.3	8382.5	8896.3	9128.8	8689.0	8113.0	7784.2	7565.1	7574.0
65°	8776.3	8826.7	8983.6	9393.8	9867.6	10117.9	9578.9	8914.1	8505.4	8237.3	8265.5
67.5°	9386.4	9430.8	9657.4	10110.5	10701.3	10908.6	10212.7	9438.2	8927.4	8607.6	8548.3
70°	9230.9	9268.0	9570.0	10212.7	11087.7	11349.9	10363.7	9361.3	8760.0	8391.3	8367.7
72.5°	8148.5	8071.5	8512.8	9435.3	10646.6	11086.3	9888.4	8549.8	7793.1	7414.1	7369.7
75°	5400.2	5567.6	6219.1	7305.9	9007.4	9552.2	8440.2	6864.7	5912.6	5597.2	5548.3
77.5°	1805.0	1933.9	2512.8	4141.6	6140.6	6959.4	6149.5	4489.6	3176.2	2558.7	2570.6
80°	478.3	472.4	611.6	1138.7	2653.5	4030.6	3088.8	1520.7	832.2	602.7	571.5
82.5°	171.7	192.5	247.3	315.4	703.3	1252.7	884.0	426.5	312.4	231.0	223.6
85°	75.5	74.0	106.6	125.9	176.2	234.0	207.3	180.6	158.4	105.1	97.7
87.5°	16.3	16.3	25.1	19.3	31.1	31.1	38.5	45.9	47.3	31.1	25.1
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)