

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: P647426

Luminaire Tested: **GALN-SA5D-835-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647426
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-SA5D-835-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31747.5 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

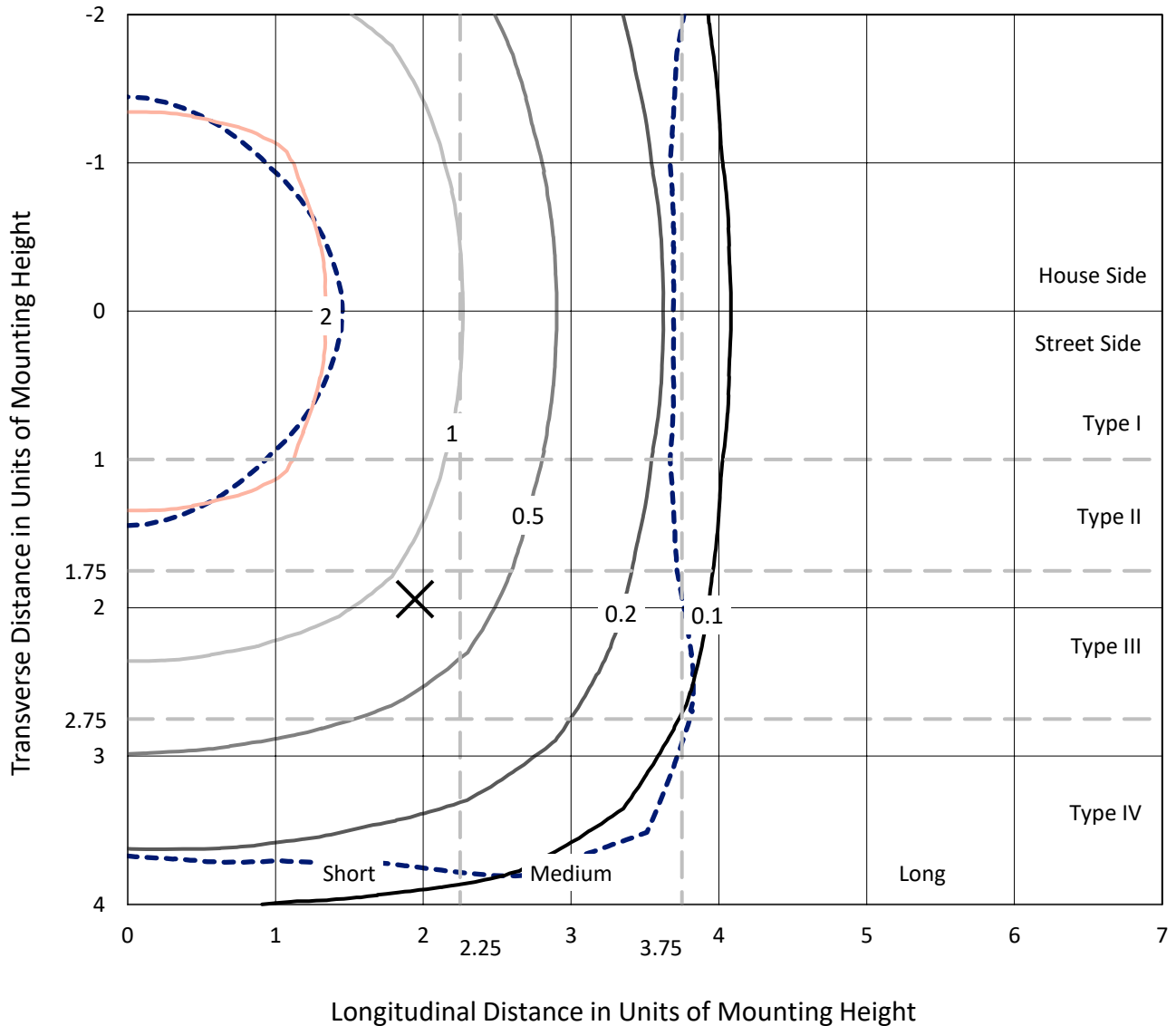
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647426
 CATALOG NUMBER: GALN-SA5D-835-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

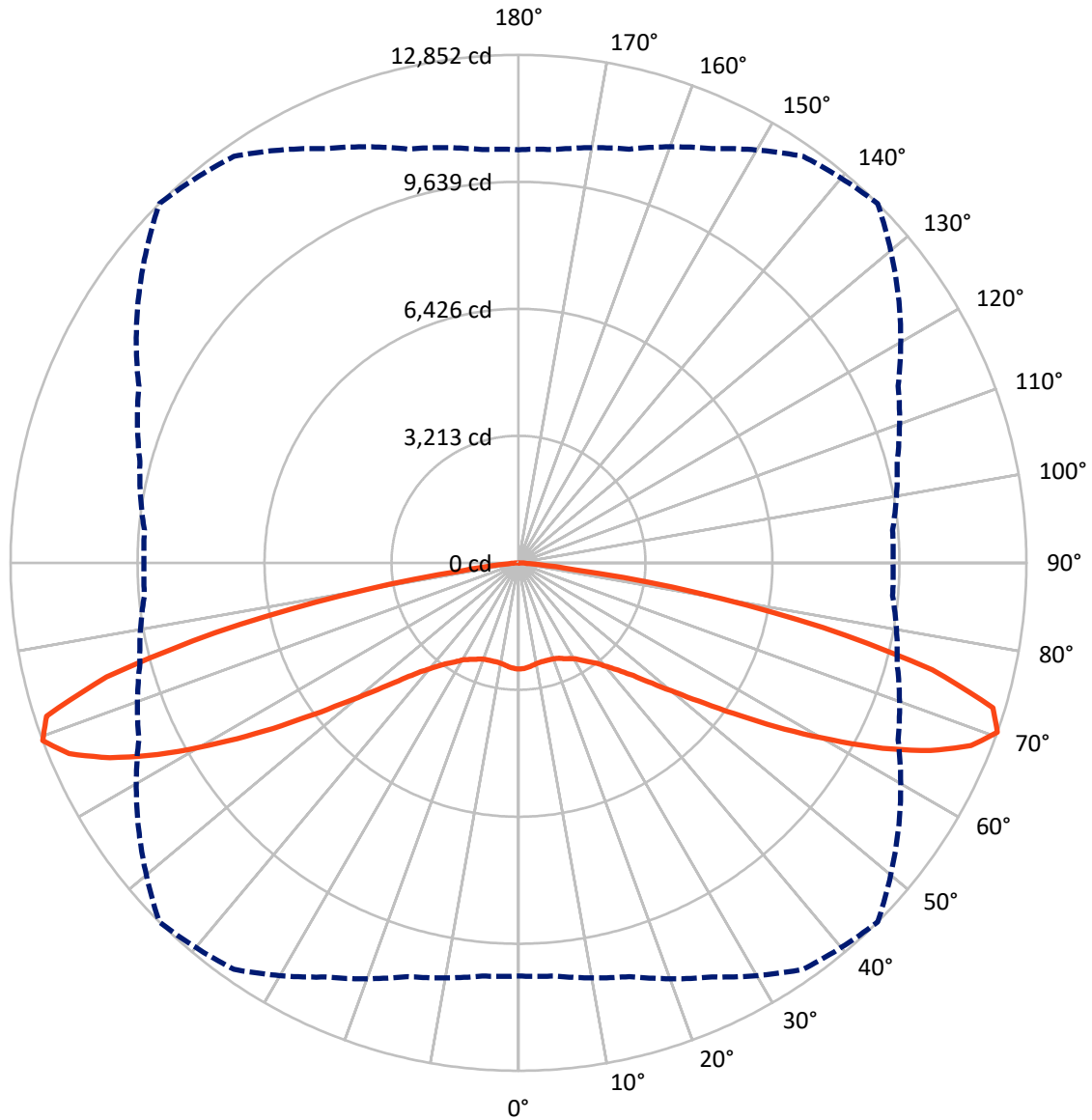
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P647426
CATALOG NUMBER: GALN-SA5D-835-U-5WQ

Luminous Intensity Polar Plot



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

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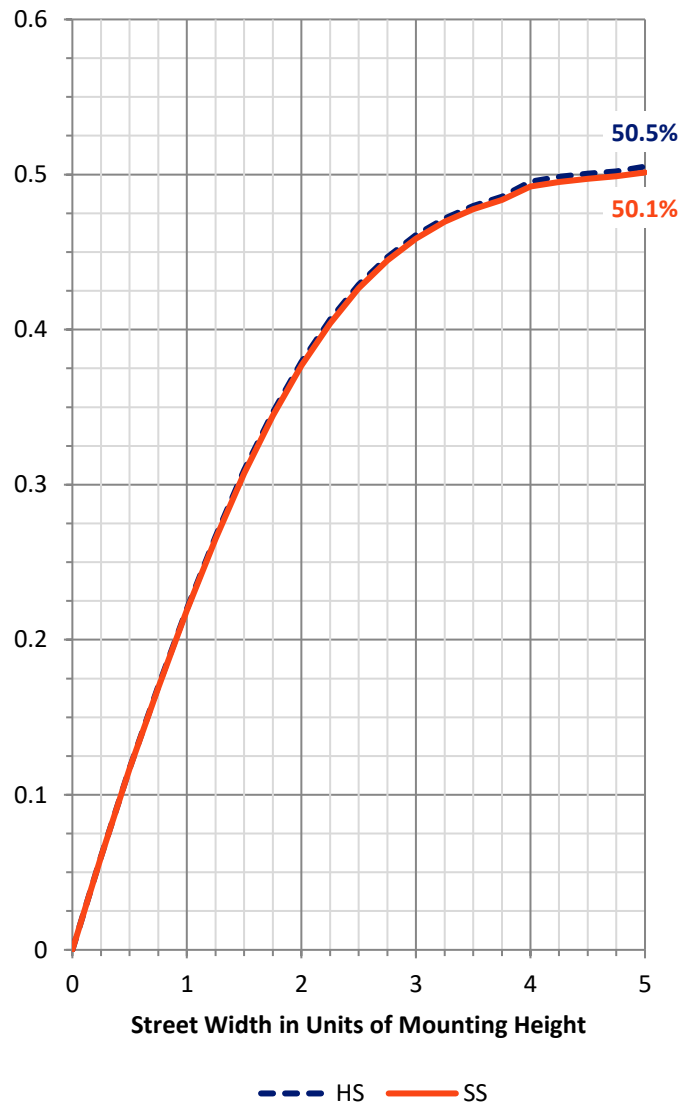
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15873.8	0.0	15873.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15873.8	0.0	15873.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	31747.5	0.0	31747.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.4	0.8
10°-20°	735.9	2.3
20°-30°	1253.8	3.9
30°-40°	1943.3	6.1
40°-50°	3270.9	10.3
50°-60°	5951.2	18.7
60°-70°	10075.2	31.7
70°-80°	7798.6	24.6
80°-90°	467.3	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°	31747.5	100.0
0°-180°	31747.5	100.0

Coefficient of Utilization



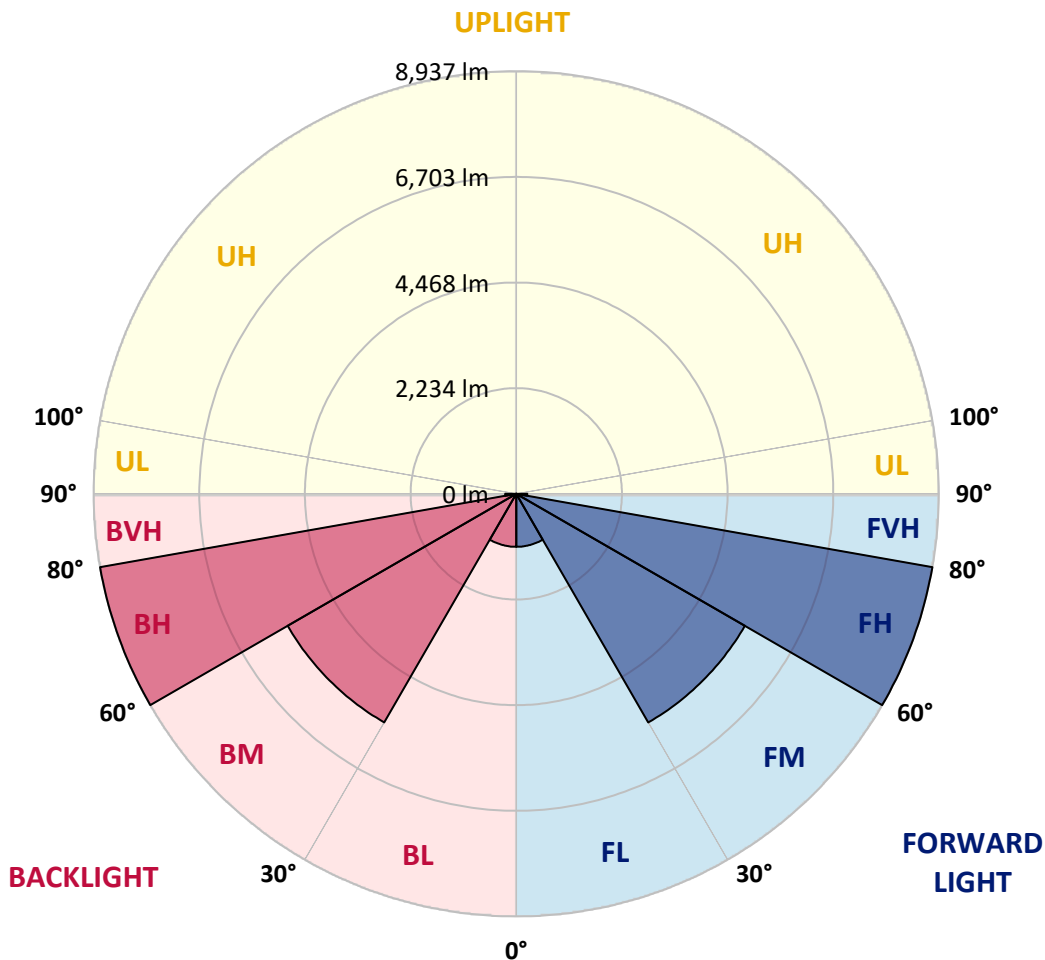
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 CATALOG NUMBER: GALN-SA5D-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.5	3.5			
FM (30°-60°)	5582.7	17.6			
FH (60°-80°)	8936.9	28.1			G4/12000
FVH (80°-90°)	233.7	0.7			G3/500
BL (0°-30°)	1120.5	3.5	B3/2500		
BM (30°-60°)	5582.7	17.6	B4/8500		
BH (60°-80°)	8936.9	28.1	B5		G4/12000
BVH (80°-90°)	233.7	0.7			G3/500
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8	2687.8
2.5°	2681.1	2682.8	2682.8	2679.4	2677.8	2677.8	2676.1	2676.1	2681.1	2682.8	2684.4
5°	2657.7	2657.7	2657.7	2655.9	2652.6	2652.6	2649.3	2649.3	2650.9	2655.9	2652.6
7.5°	2625.8	2629.2	2629.2	2622.4	2617.4	2617.4	2615.7	2617.4	2619.1	2624.1	2622.4
10°	2615.7	2617.4	2609.0	2597.3	2588.9	2588.9	2585.5	2588.9	2597.3	2600.7	2602.3
12.5°	2622.4	2622.4	2607.3	2590.6	2575.4	2568.8	2567.1	2578.8	2593.9	2603.9	2607.3
15°	2630.8	2627.4	2609.0	2587.2	2572.2	2570.4	2568.8	2577.2	2598.9	2619.1	2620.8
17.5°	2635.8	2634.2	2610.7	2583.8	2575.4	2575.4	2573.8	2580.5	2603.9	2629.2	2630.8
20°	2652.6	2647.6	2620.8	2592.3	2585.5	2588.9	2583.8	2592.3	2617.4	2647.6	2654.3
22.5°	2686.2	2681.1	2654.3	2625.8	2622.4	2622.4	2620.8	2629.2	2655.9	2687.8	2692.8
25°	2726.4	2721.3	2696.2	2676.1	2679.4	2686.2	2682.8	2684.4	2706.3	2733.1	2741.4
27.5°	2780.0	2771.7	2749.8	2733.1	2743.2	2743.2	2743.2	2741.4	2754.9	2780.0	2788.4
30°	2845.4	2842.1	2818.6	2816.9	2825.3	2816.9	2816.9	2818.6	2820.3	2843.8	2852.2
32.5°	2930.9	2924.3	2912.5	2909.2	2932.6	2939.3	2915.9	2894.0	2905.8	2929.3	2934.3
35°	3071.8	3061.8	3044.9	3026.5	3044.9	3076.8	3026.5	3009.8	3039.9	3071.8	3075.2
37.5°	3262.9	3257.9	3231.0	3197.5	3195.9	3229.4	3177.4	3175.8	3232.8	3271.3	3276.4
40°	3502.8	3507.8	3474.2	3442.4	3425.5	3452.4	3412.2	3427.3	3482.6	3526.2	3522.8
42.5°	3839.8	3821.3	3769.3	3739.1	3720.7	3710.6	3700.5	3724.0	3786.1	3833.0	3869.9
45°	4233.8	4227.0	4161.6	4124.8	4084.5	4069.5	4066.1	4108.0	4183.5	4240.5	4245.5
47.5°	4679.8	4664.7	4622.8	4584.2	4569.1	4550.6	4533.9	4565.8	4641.2	4681.5	4693.2
50°	5139.2	5142.6	5142.6	5135.9	5151.0	5154.3	5109.0	5120.7	5162.7	5159.3	5156.0
52.5°	5664.1	5682.5	5769.7	5778.1	5850.2	5898.8	5816.6	5768.0	5752.9	5662.3	5669.1
55°	6281.1	6297.8	6428.7	6559.4	6753.9	6836.1	6663.4	6512.4	6405.2	6267.7	6274.3
57.5°	7050.7	7059.1	7183.2	7434.7	7743.2	7936.0	7632.5	7334.0	7116.1	6985.3	6933.3
60°	7879.0	7887.4	8068.5	8375.4	8854.9	9089.6	8714.0	8226.1	7951.1	7751.5	7765.0
62.5°	8873.3	8906.9	9069.5	9492.0	10073.8	10337.1	9839.1	9186.9	8814.6	8566.5	8576.5
65°	9938.1	9995.1	10172.8	10637.2	11173.8	11457.2	10846.8	10094.0	9631.2	9327.7	9359.6
67.5°	10628.8	10679.2	10935.7	11448.8	12117.8	12352.5	11564.5	10687.6	10109.1	9746.9	9679.8
70°	10452.8	10494.7	10836.8	11564.5	12555.4	12852.2	11735.5	10600.3	9919.6	9502.1	9475.2
72.5°	9227.1	9139.9	9639.6	10684.2	12055.8	12553.8	11197.3	9681.5	8824.7	8395.4	8345.1
75°	6115.1	6304.6	7042.3	8273.0	10199.6	10816.7	9557.5	7773.4	6695.2	6338.1	6282.7
77.5°	2043.9	2189.8	2845.4	4689.9	6953.4	7880.7	6963.5	5083.9	3596.6	2897.4	2910.8
80°	541.6	534.9	692.5	1289.4	3004.7	4564.1	3497.7	1722.1	942.3	682.5	647.2
82.5°	194.5	218.0	280.0	357.1	796.5	1418.6	1001.0	482.9	353.8	261.6	253.2
85°	85.5	83.9	120.7	142.5	199.5	264.9	234.7	204.6	179.4	119.0	110.6
87.5°	18.5	18.5	28.5	21.8	35.2	35.2	43.6	52.0	53.6	35.2	28.5
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)