

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: P647918

Luminaire Tested: **GALN-SA5A-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647918
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18714.5 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

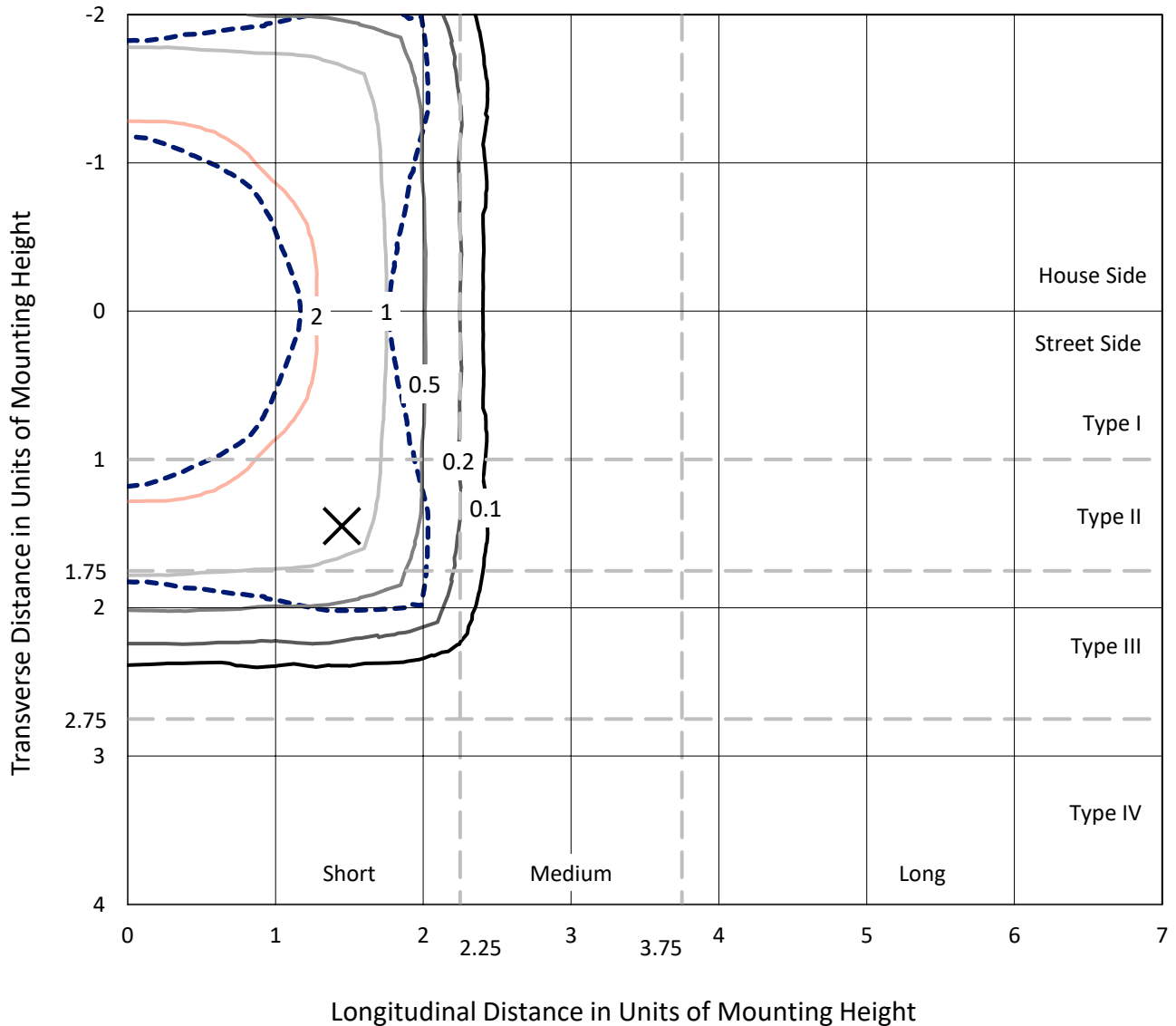
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647918
 CATALOG NUMBER: GALN-SA5A-835-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

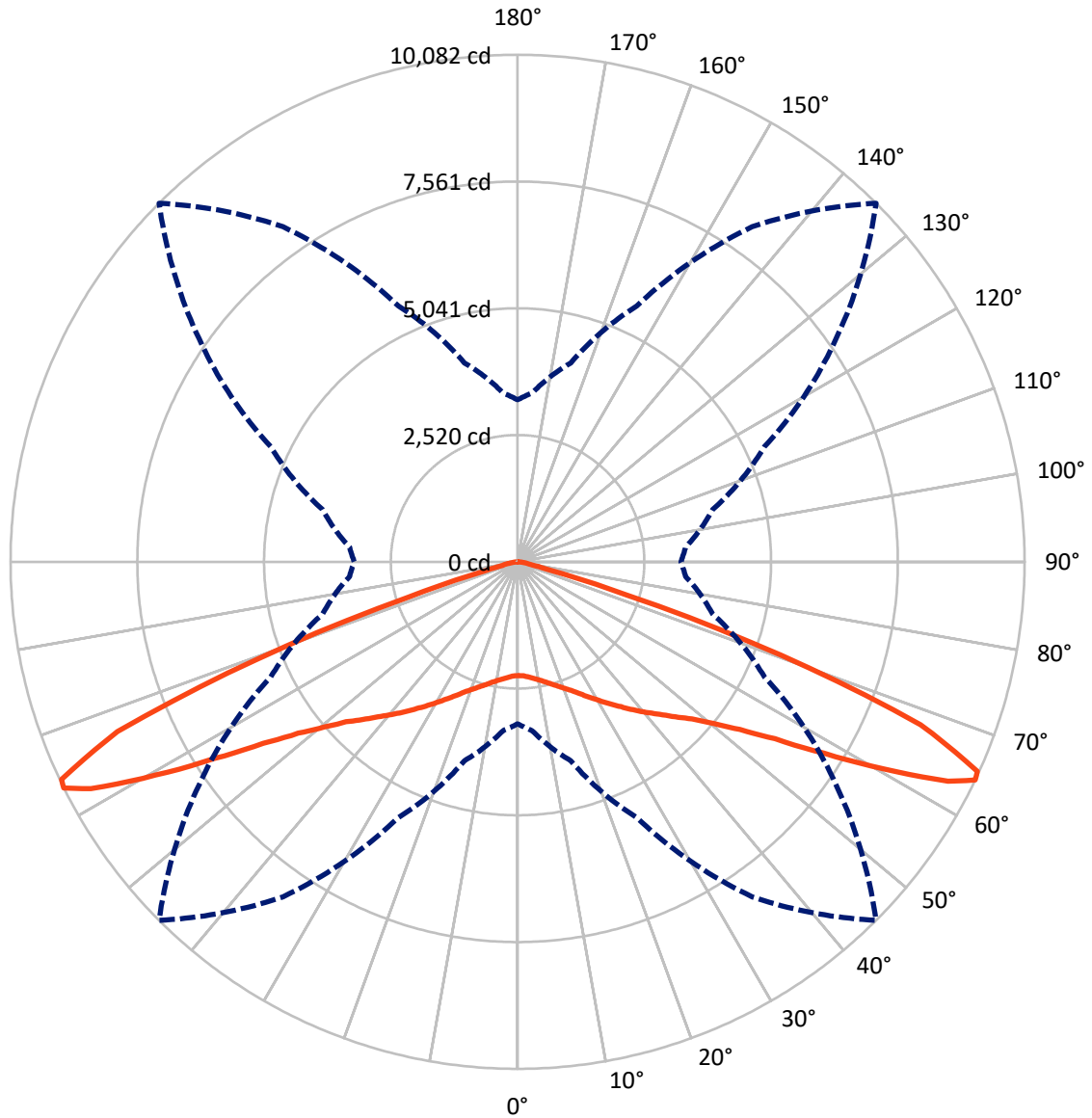
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

REPORT NUMBER: P647918
CATALOG NUMBER: GALN-SA5A-835-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P647918
 CATALOG NUMBER: GALN-SA5A-835-U-5NQ

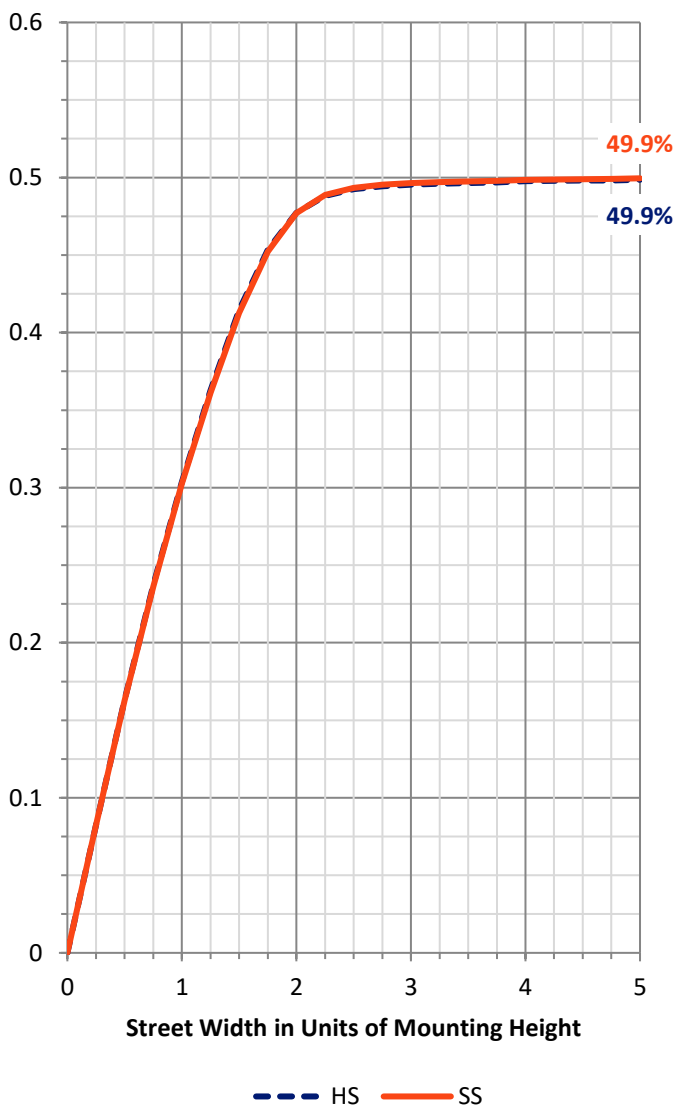
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9357.2	0.0	9357.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9357.2	0.0	9357.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	18714.5	0.0	18714.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.2	1.2
10°-20°	716.8	3.8
20°-30°	1354.6	7.2
30°-40°	2243.3	12.0
40°-50°	3502.2	18.7
50°-60°	5414.3	28.9
60°-70°	4668.7	24.9
70°-80°	529.1	2.8
80°-90°	63.4	0.3
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°	18714.5	100.0
0°-180°	18714.5	100.0

Coefficient of Utilization



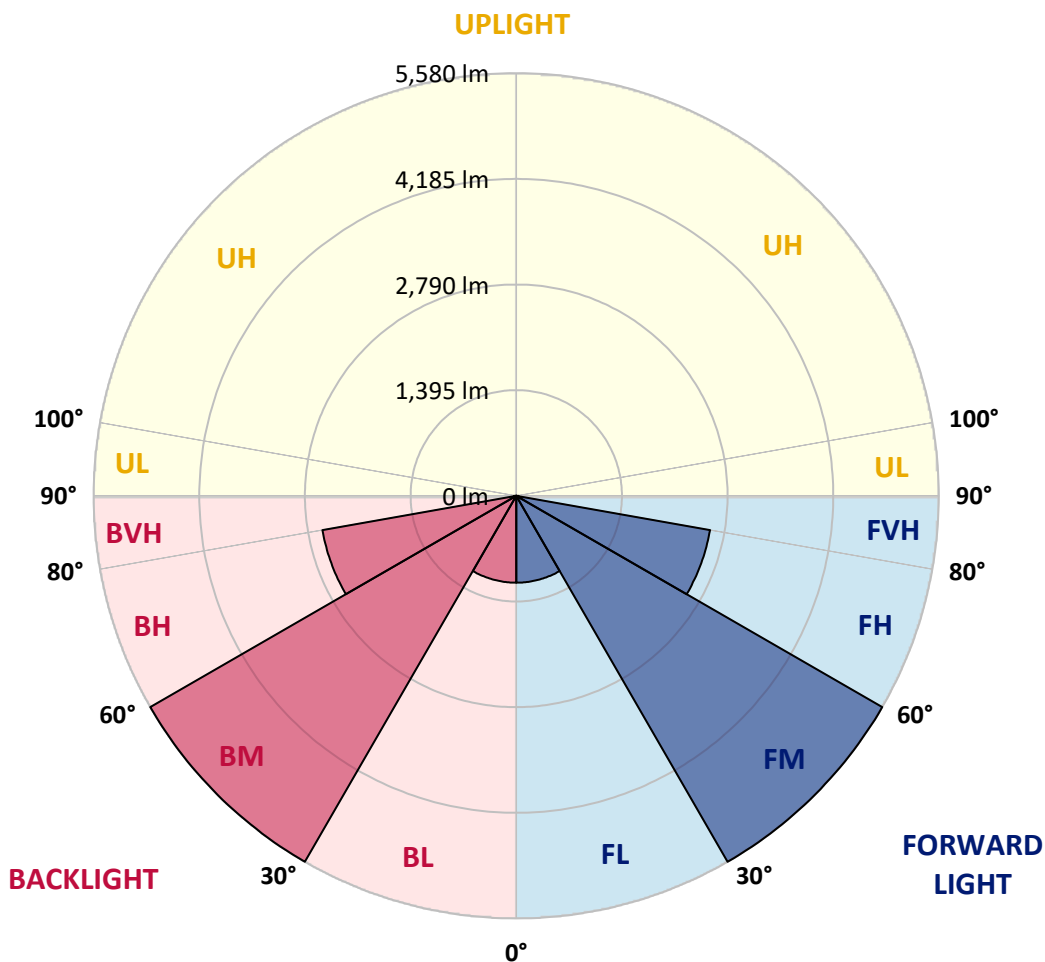
REPORT NUMBER: P647918
 CATALOG NUMBER: GALN-SA5A-835-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1146.8	6.1			
FM (30°-60°)	5579.9	29.8			
FH (60°-80°)	2598.9	13.9			G2/5000
FVH (80°-90°)	31.7	0.2			G1/100
BL (0°-30°)	1146.8	6.1	B3/2500		
BM (30°-60°)	5579.9	29.8	B4/8500		
BH (60°-80°)	2598.9	13.9	B4/5000		G2/5000
BVH (80°-90°)	31.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





REPORT NUMBER: P647918
 CATALOG NUMBER: GALN-SA5A-835-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9	2261.9
2.5°	2270.9	2275.9	2271.9	2270.9	2269.9	2269.9	2269.9	2270.9	2274.8	2277.8	2275.9
5°	2299.6	2303.6	2301.6	2300.6	2299.6	2300.6	2298.7	2297.6	2300.6	2300.6	2299.6
7.5°	2335.3	2340.2	2338.3	2340.2	2341.2	2342.3	2337.3	2333.3	2332.3	2335.3	2333.3
10°	2383.8	2387.8	2388.9	2389.8	2391.8	2390.8	2384.9	2378.0	2377.0	2375.9	2375.0
12.5°	2438.4	2441.4	2442.3	2446.3	2449.3	2450.3	2443.4	2437.4	2427.5	2429.5	2425.5
15°	2499.9	2505.8	2504.8	2510.8	2518.7	2520.6	2513.7	2503.8	2494.9	2489.9	2487.0
17.5°	2575.2	2579.1	2577.2	2583.1	2593.1	2598.0	2592.0	2579.1	2570.2	2559.3	2553.4
20°	2664.4	2671.4	2673.3	2673.3	2682.2	2687.2	2678.3	2674.3	2660.4	2652.5	2647.6
22.5°	2765.5	2768.5	2774.4	2780.4	2789.3	2787.3	2784.3	2778.4	2765.5	2758.6	2750.6
25°	2879.5	2882.5	2897.3	2910.3	2913.2	2911.2	2907.3	2904.3	2892.4	2876.5	2870.6
27.5°	3012.3	3018.2	3038.1	3049.9	3049.9	3051.0	3043.1	3052.9	3027.2	3008.4	3006.3
30°	3178.8	3182.8	3199.7	3211.6	3205.6	3200.7	3198.6	3208.6	3180.8	3147.1	3139.2
32.5°	3343.4	3357.3	3372.1	3397.9	3377.1	3368.2	3366.2	3373.1	3341.4	3303.7	3292.8
35°	3519.8	3529.8	3557.5	3579.3	3560.5	3539.6	3548.6	3570.4	3532.7	3482.2	3480.2
37.5°	3715.1	3724.0	3759.7	3782.5	3768.6	3733.0	3747.8	3773.6	3735.9	3673.4	3660.6
40°	3918.3	3937.1	3981.7	4005.5	3982.7	3935.1	3962.9	3990.6	3957.0	3884.6	3855.8
42.5°	4146.3	4176.0	4240.4	4252.3	4208.7	4144.3	4192.9	4237.4	4213.6	4130.4	4119.5
45°	4412.9	4430.8	4510.1	4535.8	4475.3	4395.1	4455.5	4536.8	4518.9	4422.9	4402.0
47.5°	4711.2	4728.1	4810.4	4849.0	4772.7	4664.6	4773.7	4879.7	4868.9	4765.8	4755.9
50°	5064.1	5068.1	5182.1	5225.7	5149.4	5056.2	5153.3	5285.2	5241.6	5109.7	5107.7
52.5°	5450.7	5455.6	5599.4	5683.6	5641.0	5536.0	5650.9	5731.2	5620.2	5447.7	5434.9
55°	5785.7	5810.5	6006.8	6230.8	6289.3	6212.9	6247.6	6210.0	5936.4	5694.5	5656.9
57.5°	5922.5	5971.1	6269.5	6687.8	7068.4	7181.4	6913.7	6555.0	6062.3	5720.3	5683.6
60°	5588.5	5641.0	6104.0	6897.9	7869.3	8359.9	7607.6	6613.4	5775.8	5295.1	5237.6
62.5°	4475.3	4490.2	5171.2	6403.3	8336.1	9606.9	7900.0	6114.8	4942.2	4289.0	4266.2
64°	3220.5	3373.1	4094.7	5614.3	8131.9	10081.7	7731.5	5416.0	4014.4	3353.3	3246.2
65°	2408.7	2450.3	3300.7	4794.5	7772.1	10046.0	7404.4	4748.0	3324.5	2566.3	2447.3
67.5°	909.9	914.9	1218.2	2389.8	5533.0	8643.5	5650.9	2583.1	1400.6	1013.0	976.3
70°	377.6	384.6	447.0	803.9	2378.0	5549.8	2724.8	931.8	512.5	415.3	409.4
72.5°	276.6	280.5	299.3	356.8	731.6	2278.8	896.1	395.5	300.4	268.6	265.7
75°	217.0	219.1	232.9	262.7	341.0	631.4	372.7	271.6	228.9	206.2	204.2
77.5°	165.5	170.5	180.4	200.2	228.9	299.3	246.8	203.2	176.4	157.6	154.6
80°	114.0	120.0	138.7	146.7	153.6	194.3	168.5	153.6	137.8	114.9	108.1
82.5°	70.4	74.3	93.2	100.1	97.2	109.1	108.1	110.0	98.1	71.3	66.4
85°	36.6	38.7	50.6	52.5	48.5	44.6	55.5	64.4	60.4	40.6	39.6
87.5°	7.9	8.9	10.9	9.9	10.9	10.9	13.9	20.8	21.8	13.9	12.9
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)