

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: P651875

Luminaire Tested: **GALN-SA5A-840-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-840-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20200.8 lumens
Efficiency: N/A
Efficacy: 131.2 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

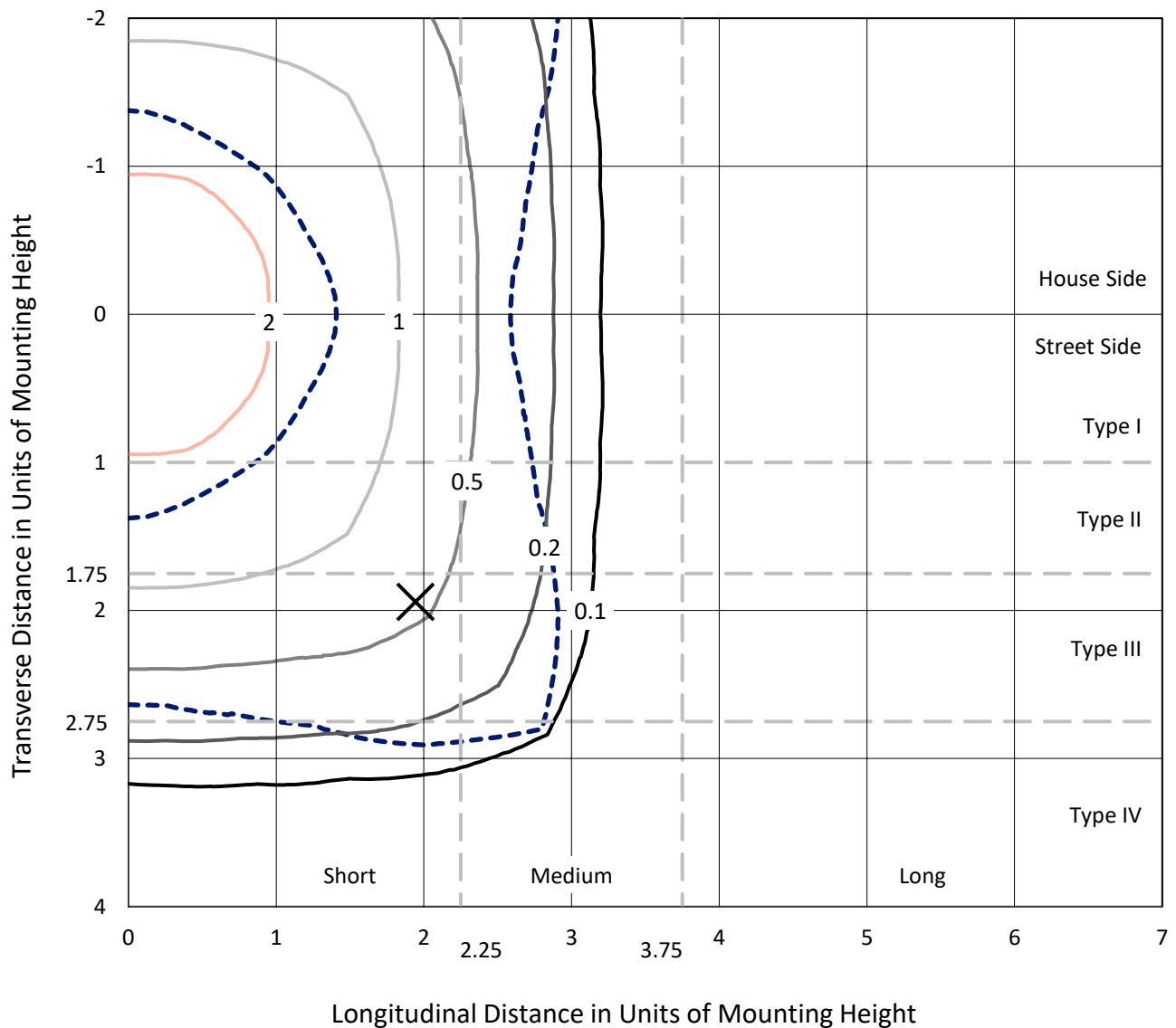




REPORT NUMBER: P651875
 CATALOG NUMBER: GALN-SA5A-840-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

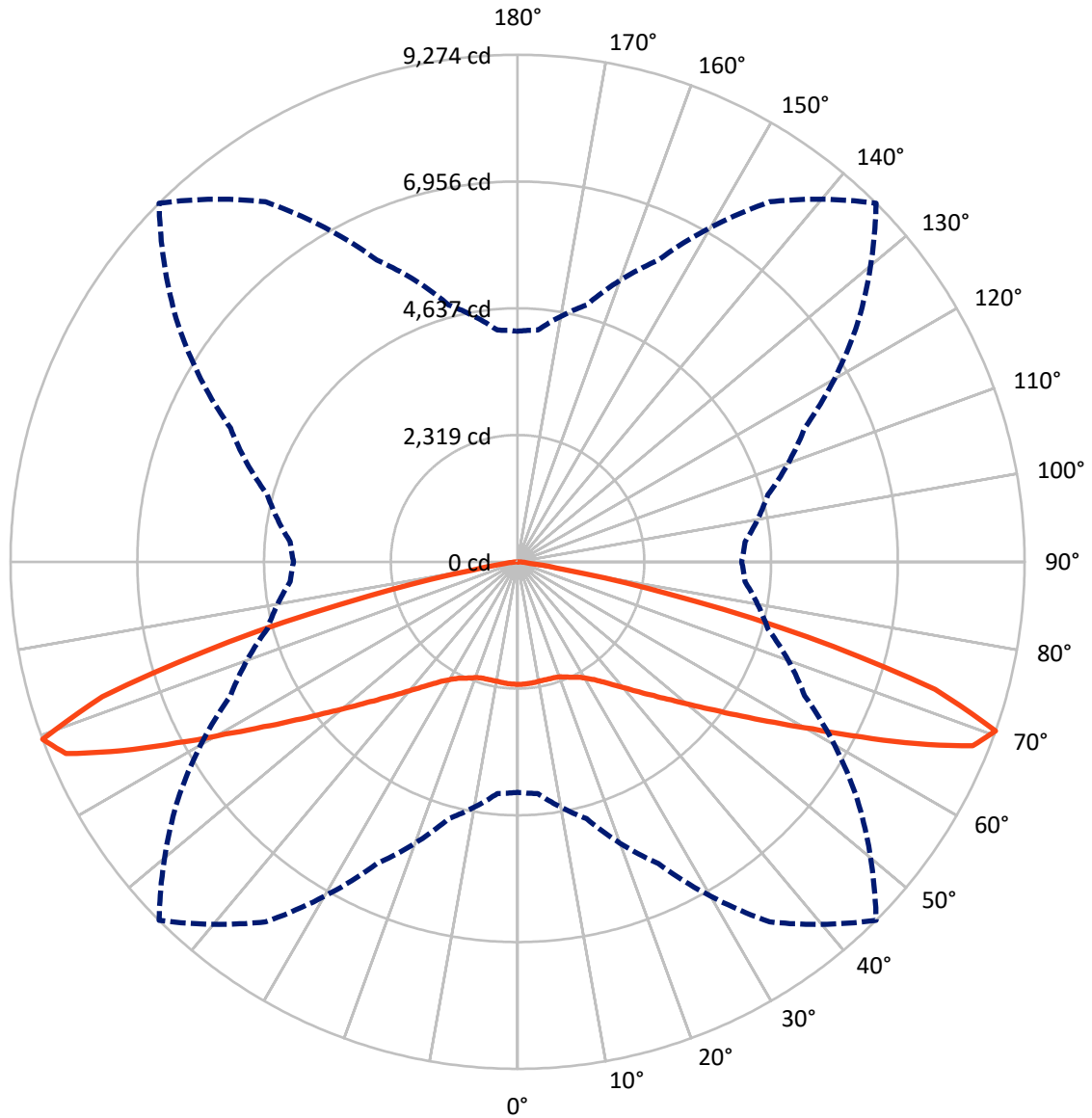
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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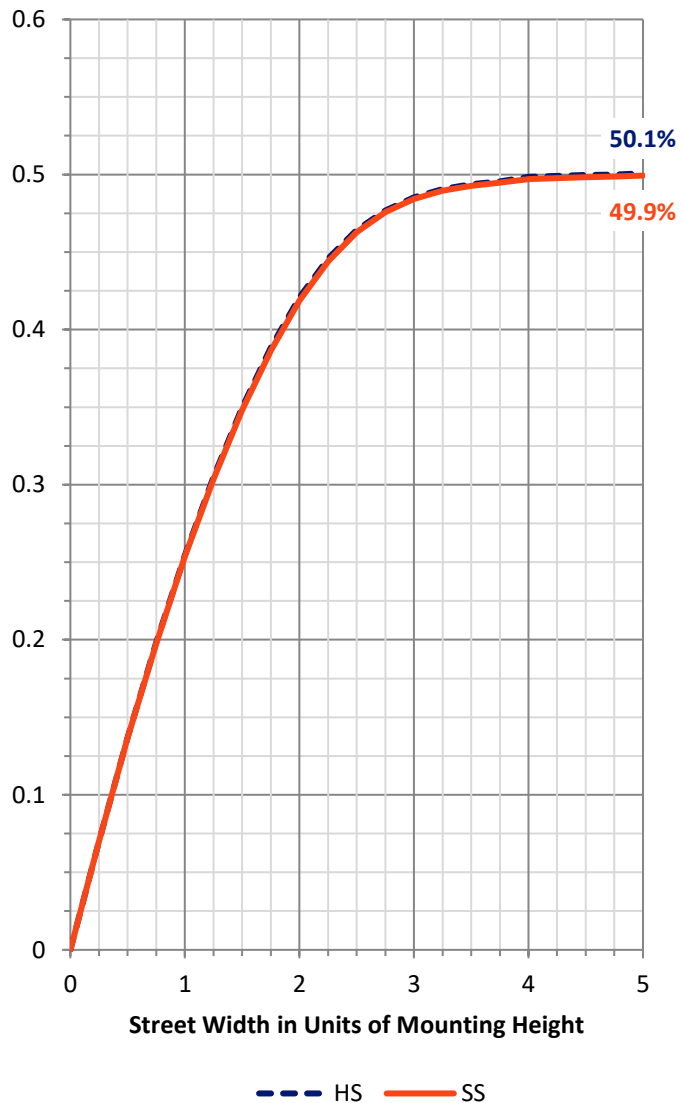
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10100.4	0.0	10100.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10100.4	0.0	10100.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	20200.8	0.0	20200.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	1.1
10°-20°	624.2	3.1
20°-30°	1067.6	5.3
30°-40°	1694.5	8.4
40°-50°	2733.7	13.5
50°-60°	4447.7	22.0
60°-70°	6447.6	31.9
70°-80°	2859.9	14.2
80°-90°	112.8	0.6
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°	20200.8	100.0
0°-180°	20200.8	100.0

Coefficient of Utilization



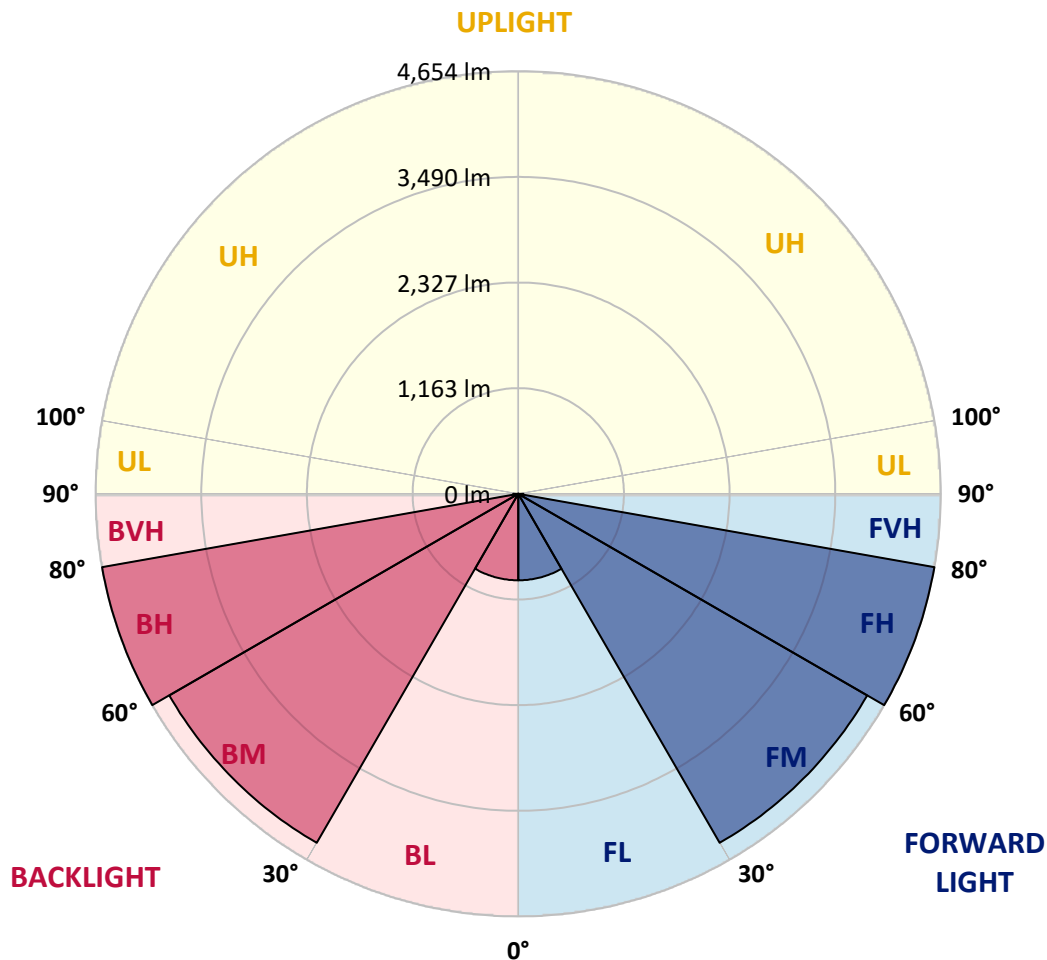
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.3	4.7			
FM (30°-60°)	4438.0	22.0			
FH (60°-80°)	4653.8	23.0			G2/5000
FVH (80°-90°)	56.4	0.3			G1/100
BL (0°-30°)	952.3	4.7	B2/1000		
BM (30°-60°)	4438.0	22.0	B3/5000		
BH (60°-80°)	4653.8	23.0	B4/5000		G2/5000
BVH (80°-90°)	56.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2243.2	2243.2	2243.2	2243.2	2243.2	2243.2	2243.2	2243.2	2243.2	2243.2	2243.2
2.5°	2243.2	2245.3	2242.1	2240.0	2238.9	2238.9	2237.9	2238.9	2245.3	2246.4	2243.2
5°	2236.8	2238.9	2237.9	2235.7	2234.7	2234.7	2233.6	2232.5	2237.9	2240.0	2238.9
7.5°	2228.3	2229.4	2228.3	2227.2	2228.3	2227.2	2224.0	2221.9	2226.2	2226.2	2225.1
10°	2213.4	2215.5	2214.4	2215.5	2217.6	2217.6	2213.4	2209.1	2210.2	2208.0	2208.0
12.5°	2195.3	2198.5	2199.6	2203.8	2209.1	2215.5	2205.9	2196.4	2194.3	2193.2	2192.1
15°	2183.6	2186.8	2191.1	2195.3	2204.8	2218.7	2204.8	2190.0	2185.7	2181.5	2179.4
17.5°	2180.4	2184.7	2191.1	2197.4	2210.2	2224.0	2212.3	2197.4	2186.8	2180.4	2178.3
20°	2188.9	2192.1	2201.7	2213.4	2231.5	2245.3	2233.6	2217.6	2201.7	2192.1	2188.9
22.5°	2205.9	2211.2	2223.0	2244.3	2269.9	2290.0	2274.1	2247.5	2221.9	2209.1	2204.8
25°	2243.2	2247.5	2261.3	2290.0	2319.9	2339.0	2322.0	2291.1	2256.0	2238.9	2233.6
27.5°	2299.6	2306.0	2320.9	2355.0	2379.4	2390.1	2378.4	2357.2	2331.6	2313.5	2309.2
30°	2379.4	2386.9	2409.3	2445.5	2461.4	2467.8	2462.5	2448.7	2430.6	2411.4	2407.2
32.5°	2487.0	2491.3	2516.9	2550.9	2565.8	2567.9	2561.5	2555.1	2525.4	2493.4	2491.3
35°	2607.4	2614.8	2645.6	2686.1	2699.9	2701.0	2688.3	2678.7	2643.5	2617.9	2617.9
37.5°	2767.0	2770.2	2800.0	2845.8	2860.7	2856.5	2850.1	2841.6	2804.3	2771.3	2772.4
40°	2954.3	2960.7	2986.3	3039.5	3039.5	3034.2	3038.5	3032.1	2994.9	2962.9	2963.9
42.5°	3176.9	3180.1	3210.9	3267.4	3263.2	3252.5	3256.8	3248.2	3224.8	3188.7	3175.9
45°	3414.3	3427.1	3480.3	3534.6	3526.1	3492.0	3509.1	3507.0	3485.6	3431.4	3434.6
47.5°	3700.7	3722.0	3773.1	3838.1	3828.5	3775.2	3794.4	3807.2	3777.4	3717.7	3707.1
50°	4023.3	4037.1	4112.7	4173.4	4164.9	4108.5	4152.1	4154.2	4079.7	3995.6	3995.6
52.5°	4367.1	4381.0	4483.2	4578.0	4583.3	4501.3	4536.4	4534.3	4413.0	4302.2	4280.9
55°	4752.6	4759.0	4891.0	5030.4	5060.3	4980.4	4984.7	4942.1	4784.5	4655.7	4644.0
57.5°	5150.8	5174.2	5320.0	5501.0	5589.4	5540.4	5518.1	5404.1	5251.9	5103.9	5096.5
60°	5591.5	5592.6	5782.0	5996.1	6175.0	6207.9	6116.3	5964.1	5767.2	5571.3	5562.8
62.5°	5897.1	5942.8	6182.4	6544.4	6864.8	7050.1	6808.4	6489.0	6101.5	5785.2	5753.4
65°	5959.9	5990.8	6355.9	6969.2	7623.9	8023.1	7464.2	6785.0	6123.8	5702.2	5681.0
67.5°	5452.0	5485.1	5976.9	6918.1	8156.3	8975.0	7890.1	6642.3	5744.8	5223.1	5181.7
70°	4217.0	4254.3	4862.2	6089.8	8038.0	9274.1	7586.7	5793.8	4737.7	4174.5	4098.9
72.5°	2242.1	2379.4	2899.0	4179.8	6524.1	7984.9	6220.7	4227.7	3055.5	2497.7	2397.6
75°	818.7	835.8	1125.3	1853.6	3795.4	5475.5	3941.3	2016.5	1159.4	895.3	849.6
77.5°	338.6	337.5	370.5	560.0	1378.7	2804.3	1538.4	592.0	369.5	341.8	337.5
80°	200.2	200.2	220.3	233.1	363.1	846.4	405.6	264.0	221.4	202.3	205.5
82.5°	89.4	94.8	139.4	146.9	175.7	232.1	195.9	168.2	144.8	100.1	90.5
85°	48.9	42.6	73.4	76.6	84.1	86.2	92.6	91.6	84.1	48.9	50.0
87.5°	9.6	11.7	21.3	16.0	18.1	16.0	21.3	29.8	30.9	17.1	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)