

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: P527494

Luminaire Tested: **GALN-SA2C-735-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527494
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11625 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

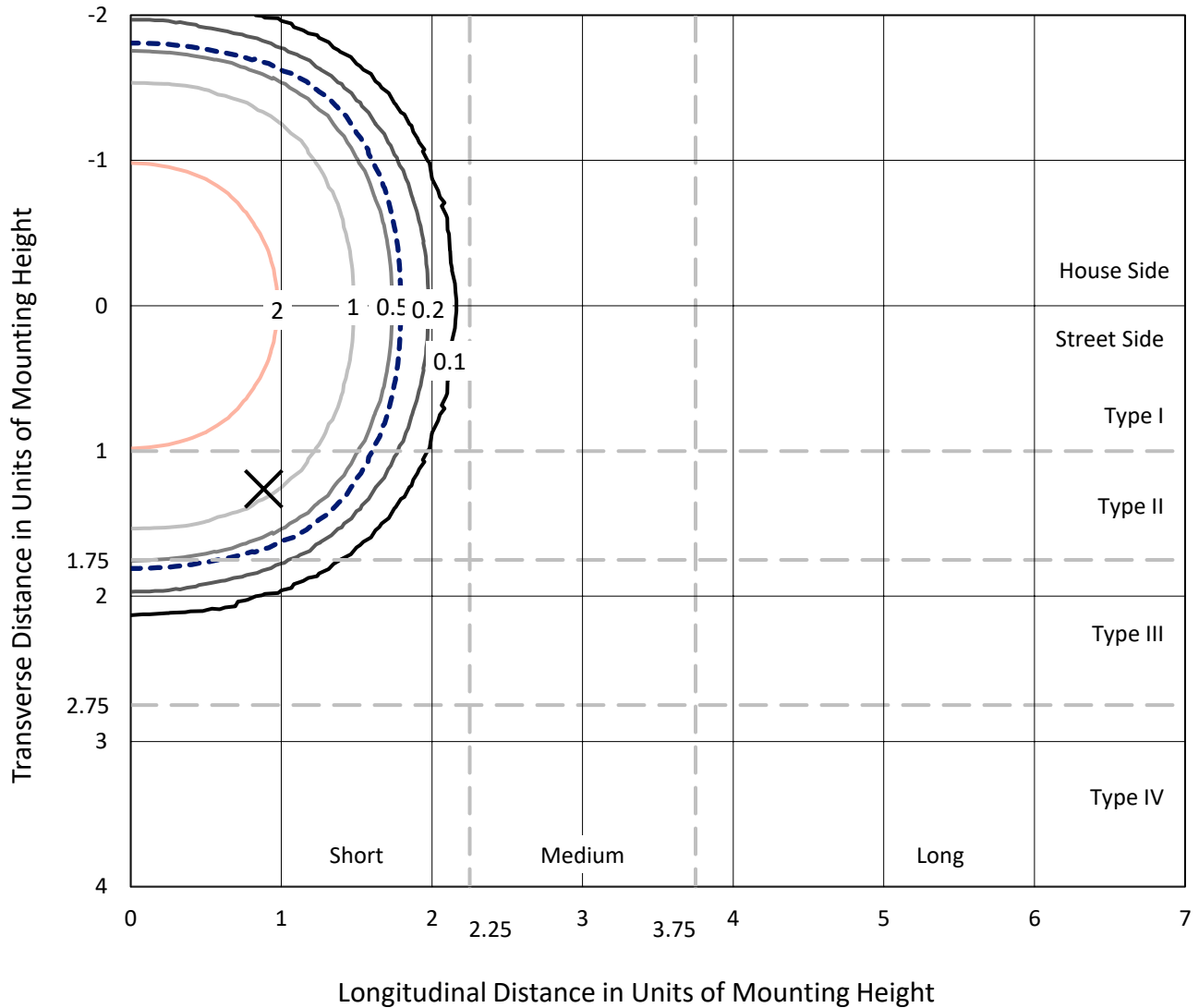
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

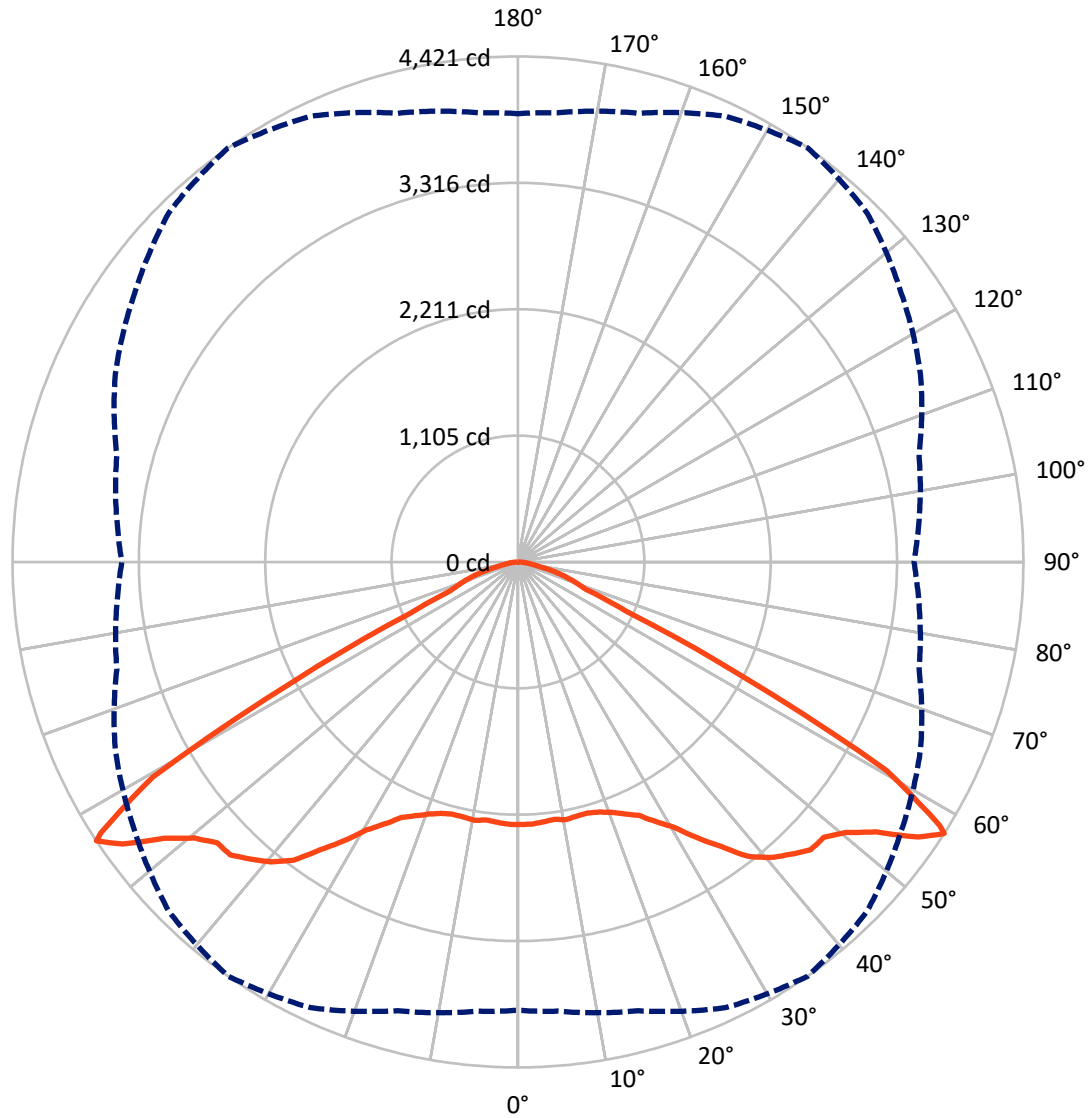
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5812.5	0.0	5812.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5812.5	0.0	5812.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11625.0	0.0	11625.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	1.9
10°-20°	644.6	5.5
20°-30°	1125.8	9.7
30°-40°	1844.7	15.9
40°-50°	2704.8	23.3
50°-60°	3406.9	29.3
60°-70°	1281.3	11.0
70°-80°	340.7	2.9
80°-90°	58.4	0.5
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°	11625.0	100.0
0°-180°	11625.0	100.0

Coefficient of Utilization



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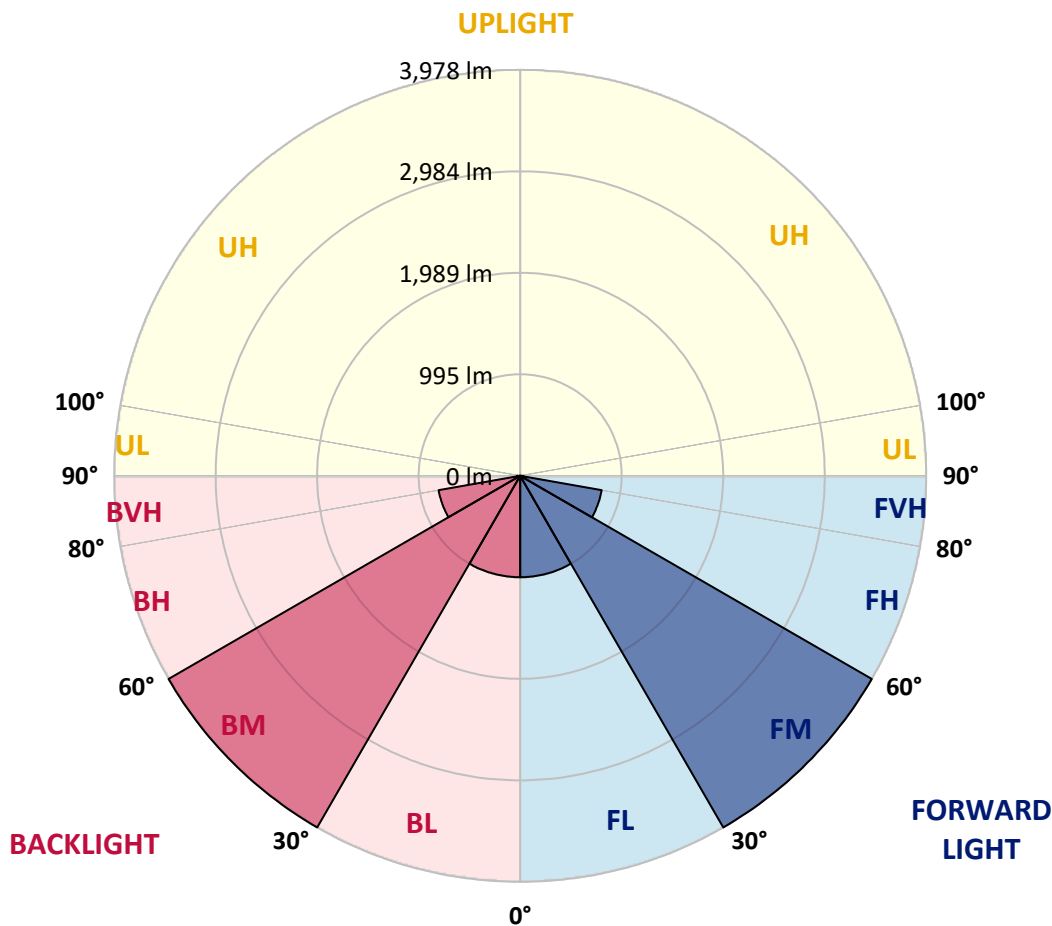
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	994.1	8.6			
FM (30°-60°)	3978.2	34.2			
FH (60°-80°)	811.0	7.0			G1/1800
FVH (80°-90°)	29.2	0.3			G1/100
BL (0°-30°)	994.1	8.6	B2/1000		
BM (30°-60°)	3978.2	34.2	B3/5000		
BH (60°-80°)	811.0	7.0	B2/1000		G1/1800
BVH (80°-90°)	29.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9	2295.9
2.5°	2284.4	2307.3	2297.3	2291.6	2295.9	2288.7	2277.2	2290.1	2287.3	2275.8	2271.5
5°	2278.7	2295.9	2284.4	2295.9	2284.4	2304.4	2298.7	2277.2	2303.0	2278.7	2287.3
7.5°	2274.4	2280.1	2283.0	2277.2	2272.9	2297.3	2284.4	2274.4	2260.0	2255.7	2262.9
10°	2264.3	2278.7	2257.2	2285.8	2291.6	2274.4	2274.4	2255.7	2244.3	2237.1	2261.5
12.5°	2290.1	2265.8	2262.9	2277.2	2281.5	2288.7	2268.6	2258.6	2237.1	2240.0	2235.7
15°	2260.0	2270.1	2271.5	2274.4	2278.7	2295.9	2277.2	2255.7	2247.2	2217.1	2219.9
17.5°	2271.5	2261.5	2271.5	2304.4	2298.7	2311.6	2291.6	2258.6	2238.6	2221.4	2244.3
20°	2291.6	2287.3	2291.6	2331.7	2338.8	2350.3	2333.1	2303.0	2264.3	2244.3	2255.7
22.5°	2313.0	2310.2	2313.0	2351.7	2393.2	2407.6	2390.4	2320.2	2300.1	2262.9	2250.0
25°	2351.7	2354.6	2384.6	2427.6	2454.8	2482.0	2450.5	2400.4	2336.0	2313.0	2285.8
27.5°	2437.6	2444.8	2462.0	2525.0	2572.3	2596.6	2552.2	2483.5	2443.4	2396.1	2388.9
30°	2543.6	2543.6	2573.7	2628.1	2692.6	2729.8	2675.4	2593.8	2545.1	2519.3	2503.5
32.5°	2684.0	2668.2	2679.7	2775.6	2875.9	2907.4	2834.4	2734.1	2656.8	2622.4	2610.9
35°	2804.3	2814.3	2840.1	2943.2	3054.9	3128.0	3013.4	2883.1	2804.3	2772.8	2767.1
37.5°	2960.4	2977.6	2990.5	3132.3	3266.9	3294.1	3183.8	3079.3	2983.3	2957.5	2943.2
40°	3181.0	3169.5	3173.8	3278.4	3400.1	3417.3	3308.4	3234.0	3155.2	3139.4	3139.4
42.5°	3362.9	3350.0	3364.3	3403.0	3496.1	3483.2	3423.0	3368.6	3335.6	3318.5	3335.6
45°	3473.1	3470.3	3496.1	3524.7	3590.6	3547.6	3500.4	3508.9	3477.4	3448.8	3447.4
47.5°	3593.4	3574.8	3606.3	3649.3	3599.2	3579.1	3576.3	3594.9	3584.9	3534.7	3519.0
50°	3652.2	3645.0	3695.1	3745.3	3718.0	3672.2	3682.2	3712.3	3583.4	3516.1	3477.4
52.5°	3809.7	3811.1	3907.1	3934.3	3922.9	3855.5	3877.0	3795.4	3643.6	3549.0	3553.3
55°	4057.5	4047.5	4154.9	4235.1	4248.0	4162.0	4058.9	3944.3	3753.9	3657.9	3629.3
57°	3921.4	3944.3	4063.2	4301.0	4421.3	4319.6	4094.7	3885.6	3632.1	3516.1	3464.5
57.5°	3739.5	3776.8	3983.0	4222.2	4348.2	4339.6	4050.3	3776.8	3550.5	3370.0	3374.3
60°	2739.8	2747.0	2933.2	3312.7	3706.6	3715.2	3362.9	3000.5	2748.4	2552.2	2579.4
62.5°	1445.1	1478.1	1552.5	1857.6	2198.5	2281.5	2068.1	1881.9	1664.2	1515.3	1529.6
65°	764.8	760.5	796.3	882.2	1049.8	1092.8	1064.1	916.6	840.7	816.4	817.8
67.5°	621.6	628.7	624.4	628.7	640.2	658.8	654.5	660.3	664.6	671.7	670.3
70°	527.1	527.1	529.9	531.4	531.4	539.9	550.0	568.6	570.0	577.2	580.0
72.5°	415.3	412.5	416.8	426.8	428.2	435.4	449.7	461.2	465.5	465.5	456.9
75°	282.1	285.0	290.7	299.3	307.9	320.8	332.3	339.4	342.3	338.0	333.7
77.5°	159.0	161.8	166.1	179.0	189.1	200.5	213.4	220.6	227.7	229.2	220.6
80°	94.5	94.5	101.7	111.7	123.2	134.6	146.1	154.7	157.5	157.5	153.2
82.5°	57.3	58.7	64.4	74.5	84.5	91.7	101.7	108.8	114.6	113.1	110.3
85°	30.1	30.1	35.8	44.4	51.6	58.7	58.7	54.4	51.6	44.4	41.5
87.5°	10.0	8.6	11.5	11.5	10.0	11.5	11.5	12.9	12.9	12.9	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)