

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: P530305

Luminaire Tested: **GALN-SA5C-735-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17108 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

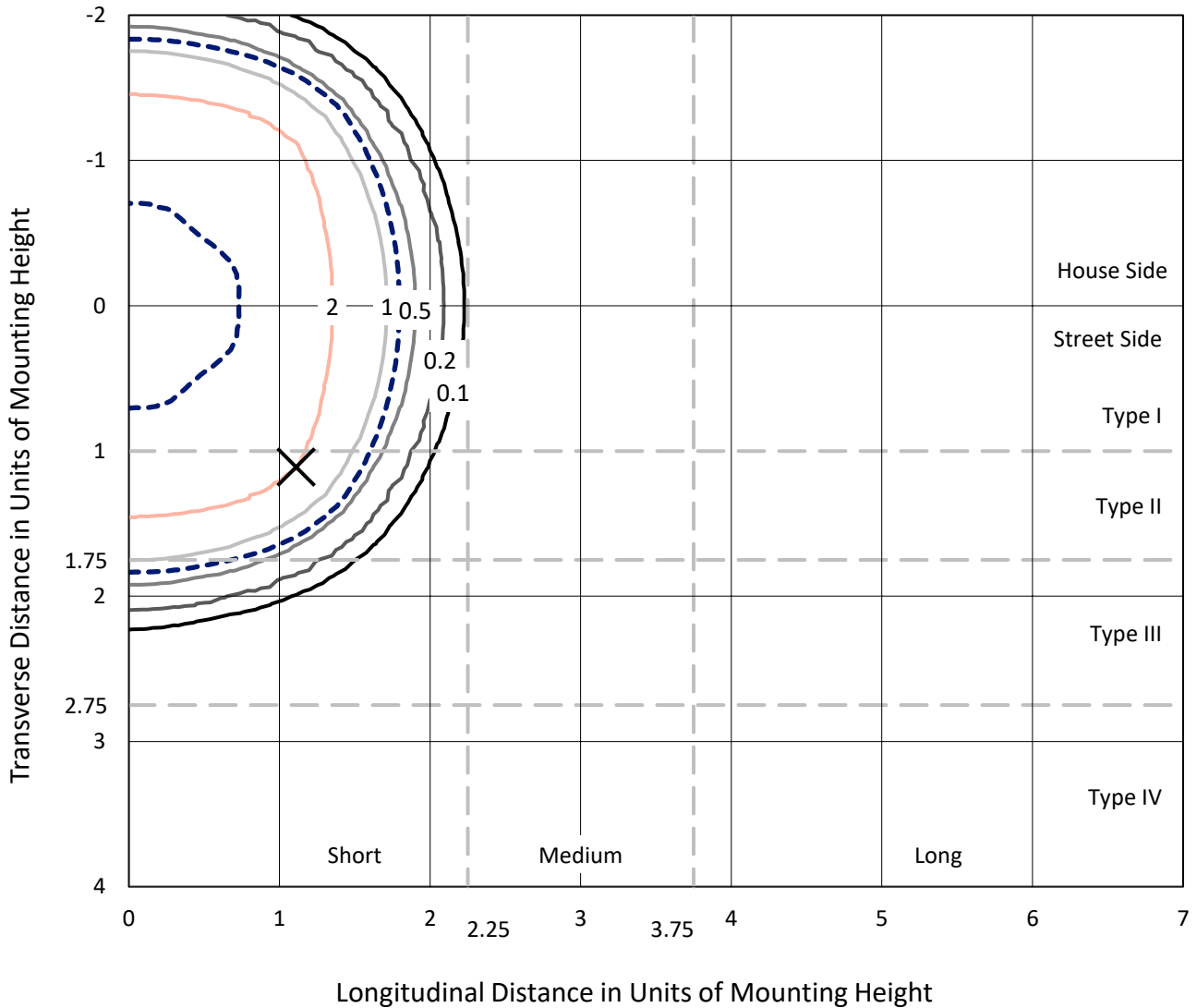
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530305
 CATALOG NUMBER: GALN-SA5C-735-U-5WQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

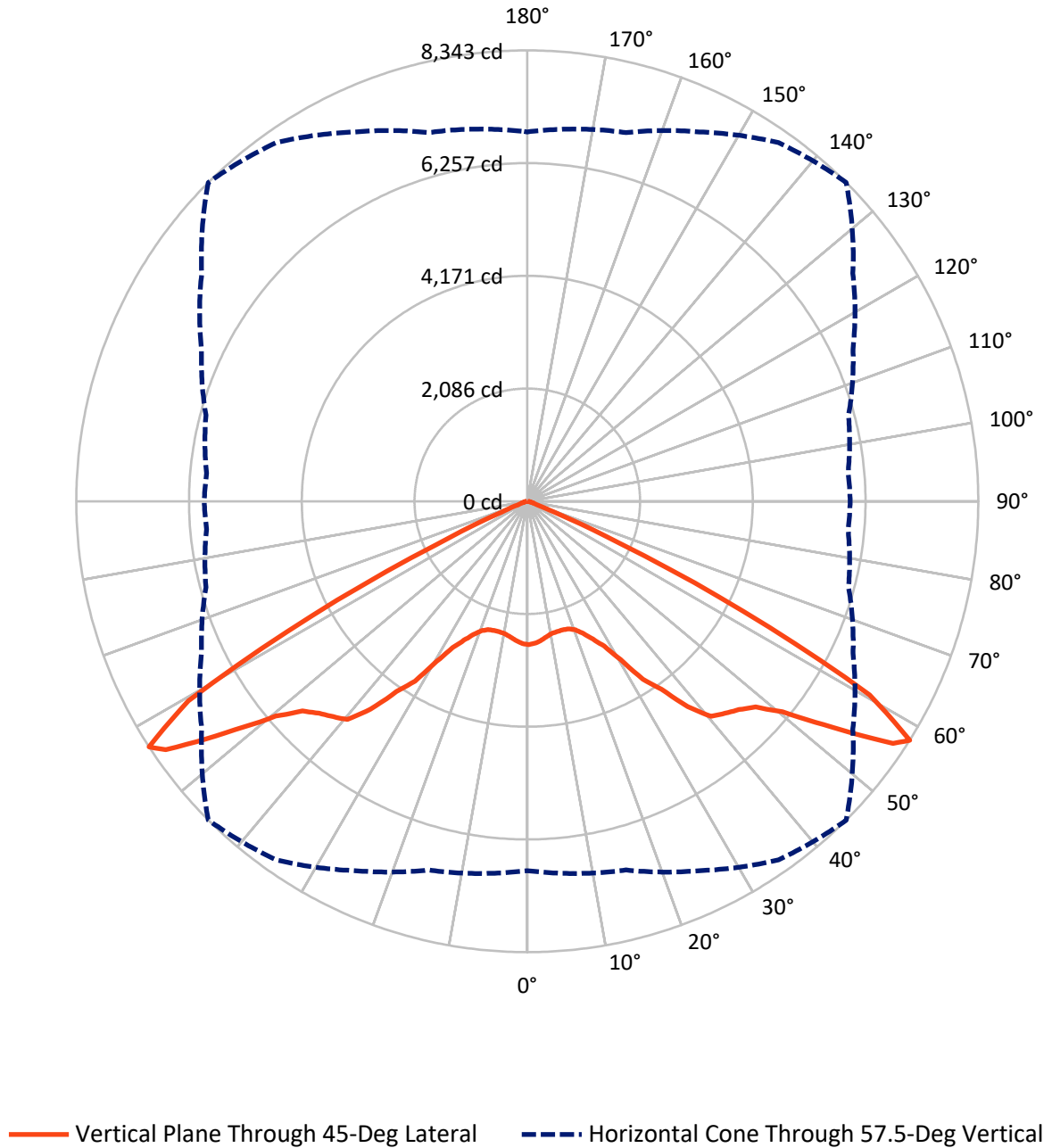
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

REPORT NUMBER: P530305
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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8554.0	0.0	8554.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8554.0	0.0	8554.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17108.0	0.0	17108.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.9	1.4
10°-20°	704.9	4.1
20°-30°	1301.1	7.6
30°-40°	2558.7	15.0
40°-50°	4167.4	24.4
50°-60°	5943.3	34.7
60°-70°	2057.7	12.0
70°-80°	110.4	0.6
80°-90°	20.7	0.1
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°	17108.0	100.0
0°-180°	17108.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530305

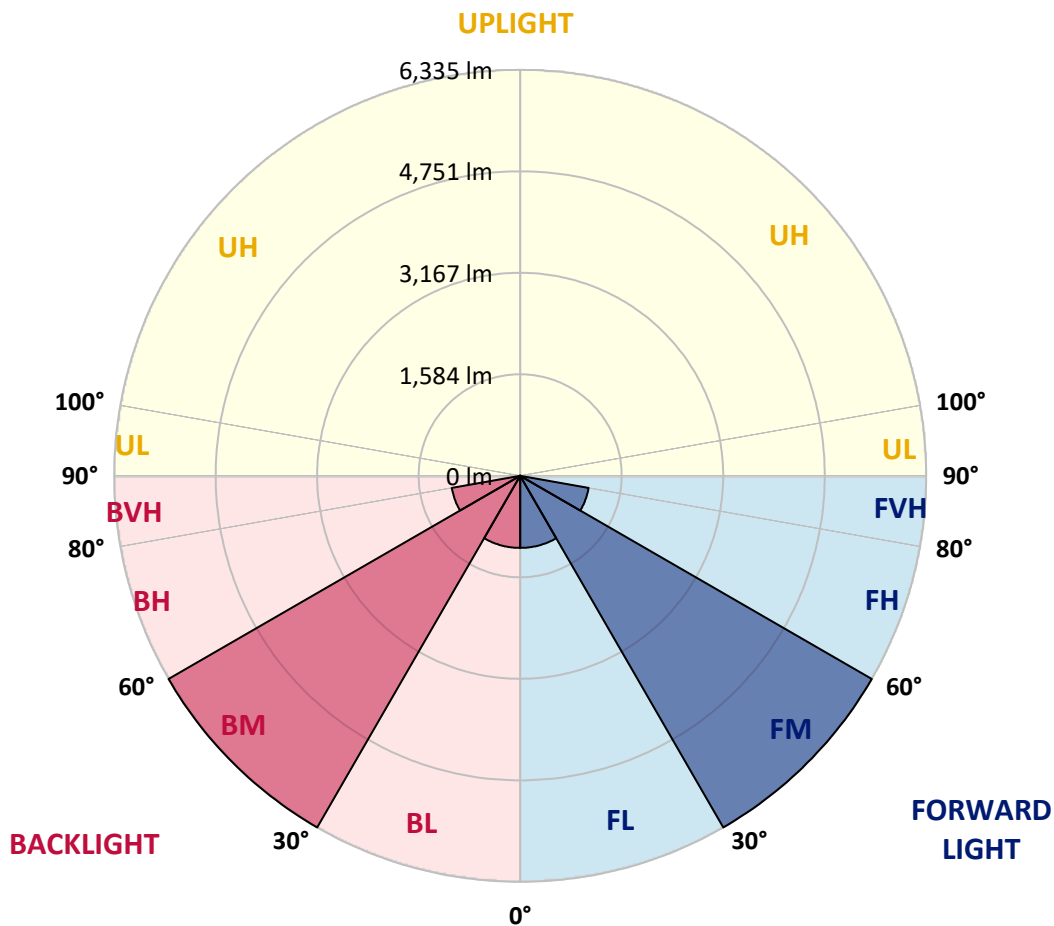
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.9	6.6			
FM (30°-60°)	6334.7	37.0			
FH (60°-80°)	1084.1	6.3			G1/1800
FVH (80°-90°)	10.4	0.1			G1/100
BL (0°-30°)	1124.9	6.6	B3/2500		
BM (30°-60°)	6334.7	37.0	B4/8500		
BH (60°-80°)	1084.1	6.3	B3/2500		G1/1800
BVH (80°-90°)	10.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6	2653.6
2.5°	2646.5	2660.8	2642.9	2635.8	2632.2	2632.2	2621.5	2621.5	2618.0	2621.5	2607.3
5°	2603.7	2618.0	2618.0	2614.4	2593.0	2589.4	2578.7	2571.6	2575.2	2560.9	2571.6
7.5°	2560.9	2571.6	2557.3	2553.8	2546.6	2532.4	2528.8	2496.7	2500.3	2500.3	2507.4
10°	2553.8	2550.2	2528.8	2511.0	2489.6	2486.0	2475.3	2468.2	2468.2	2464.6	2475.3
12.5°	2553.8	2535.9	2532.4	2493.1	2457.5	2471.7	2443.2	2425.4	2450.3	2457.5	2471.7
15°	2550.2	2568.0	2507.4	2489.6	2464.6	2468.2	2443.2	2425.4	2439.6	2446.8	2457.5
17.5°	2571.6	2560.9	2543.1	2507.4	2496.7	2482.4	2450.3	2436.1	2436.1	2453.9	2457.5
20°	2628.7	2600.1	2564.5	2546.6	2557.3	2539.5	2500.3	2446.8	2461.0	2475.3	2486.0
22.5°	2682.2	2660.8	2635.8	2625.1	2685.7	2657.2	2589.4	2528.8	2507.4	2532.4	2550.2
25°	2785.6	2785.6	2739.2	2753.5	2821.3	2824.8	2746.4	2639.4	2625.1	2635.8	2642.9
27.5°	2996.0	3006.7	2967.5	2981.8	3010.3	3035.3	2967.5	2878.3	2846.2	2842.7	2853.4
30°	3224.3	3245.7	3242.1	3302.8	3384.8	3399.1	3299.2	3153.0	3056.7	3038.8	3053.1
32.5°	3523.9	3534.6	3527.5	3598.8	3819.9	3923.4	3663.0	3456.1	3327.7	3359.8	3327.7
35°	4087.4	4076.7	3998.3	4012.5	4194.4	4269.3	4019.7	3887.7	3827.1	3891.3	3877.0
37.5°	4572.5	4533.3	4469.1	4561.8	4750.9	4818.6	4558.3	4326.4	4215.8	4322.8	4369.2
40°	4982.7	4882.8	4793.7	4886.4	5139.6	5232.4	4850.7	4661.7	4618.9	4697.4	4797.2
42.5°	5328.7	5264.5	5146.8	5153.9	5321.5	5364.3	5057.6	4947.0	4904.2	5029.1	5079.0
45°	5574.8	5514.1	5403.6	5396.4	5524.8	5496.3	5221.7	5146.8	5171.7	5253.8	5278.7
47.5°	5699.6	5731.7	5667.5	5685.3	5753.1	5685.3	5467.8	5467.8	5410.7	5460.6	5435.7
50°	6059.8	5960.0	6042.0	6042.0	6113.3	6120.5	5902.9	5824.4	5671.1	5585.5	5585.5
52.5°	6480.7	6487.8	6519.9	6637.6	6758.9	6862.3	6552.0	6216.8	5960.0	5849.4	5835.1
55°	6826.7	6898.0	7026.4	7247.5	7597.1	7739.8	7204.7	6605.5	6291.7	6120.5	6084.8
56°	7015.7	6947.9	7169.1	7472.3	7928.8	8114.3	7311.7	6684.0	6338.0	6145.4	6141.9
57.5°	6833.8	6908.7	7062.1	7540.0	8100.0	8342.5	7351.0	6648.3	6152.6	5956.4	5974.2
60°	5396.4	5467.8	5674.6	6209.6	7087.0	7276.1	6220.3	5482.0	5039.8	4758.0	4761.6
62.5°	3053.1	3106.6	3267.1	3762.9	4308.6	4490.5	3877.0	3384.8	3078.1	2921.1	2871.2
65°	1123.5	1102.1	1127.1	1380.3	1715.6	1869.0	1612.2	1362.5	1202.0	1144.9	1123.5
67.5°	420.9	388.8	363.8	388.8	488.6	517.2	474.4	395.9	370.9	381.6	388.8
70°	260.4	246.1	196.2	185.5	181.9	178.3	189.0	199.7	228.3	267.5	274.6
72.5°	181.9	171.2	139.1	132.0	124.8	121.3	139.1	153.4	178.3	206.9	210.4
75°	71.3	74.9	71.3	78.5	82.0	85.6	99.9	110.6	121.3	121.3	117.7
77.5°	14.3	14.3	21.4	28.5	35.7	46.4	67.8	78.5	82.0	78.5	67.8
80°	0.0	0.0	7.1	14.3	28.5	39.2	60.6	67.8	74.9	67.8	53.5
82.5°	0.0	0.0	7.1	17.8	28.5	35.7	57.1	71.3	82.0	74.9	57.1
85°	0.0	0.0	7.1	14.3	21.4	25.0	25.0	17.8	17.8	10.7	7.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)