

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: P459211

Luminaire Tested: **GALN-SA7A-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459211
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-SA7A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31055 lumens
Efficiency: N/A
Efficacy: 144.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

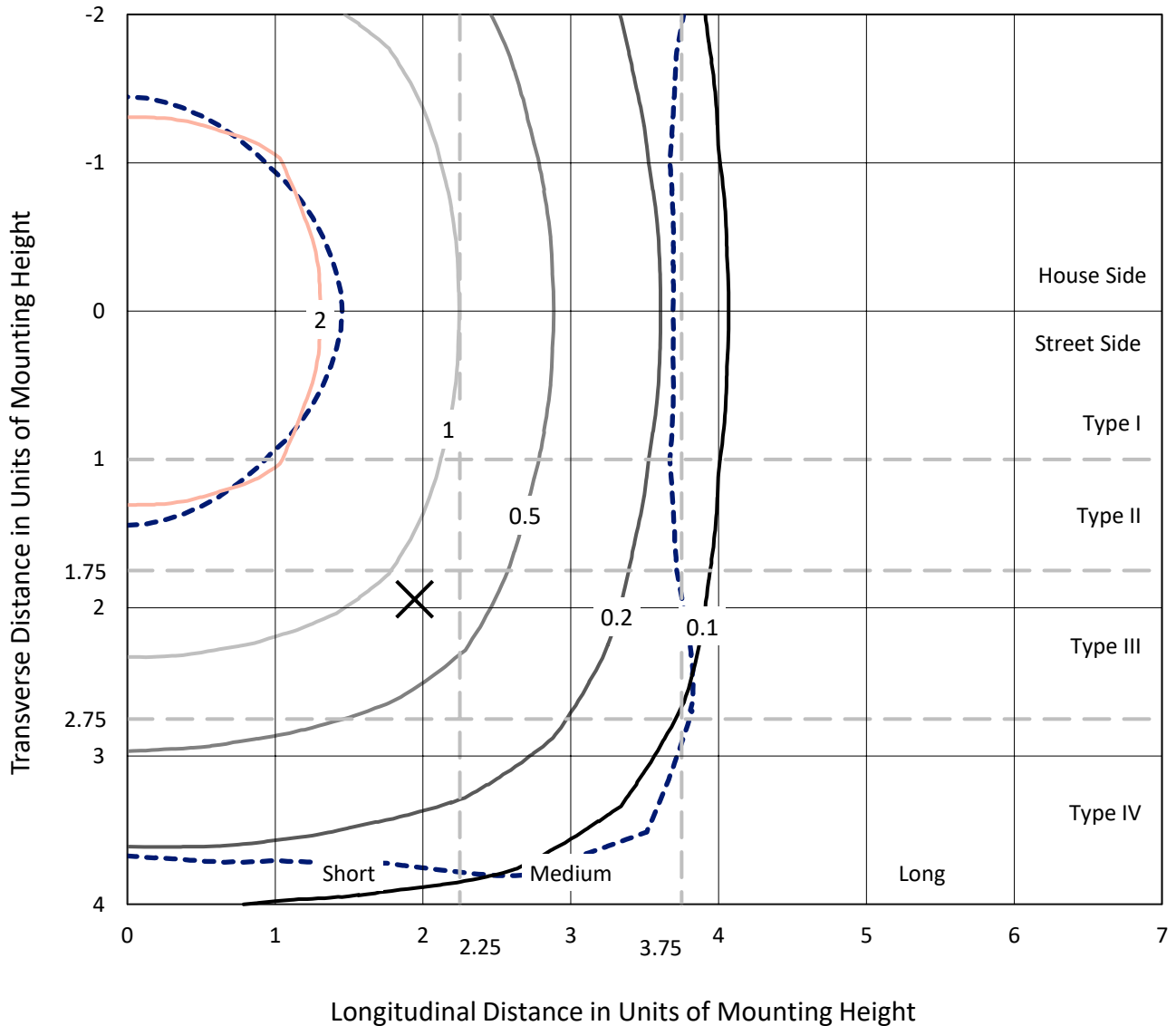
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

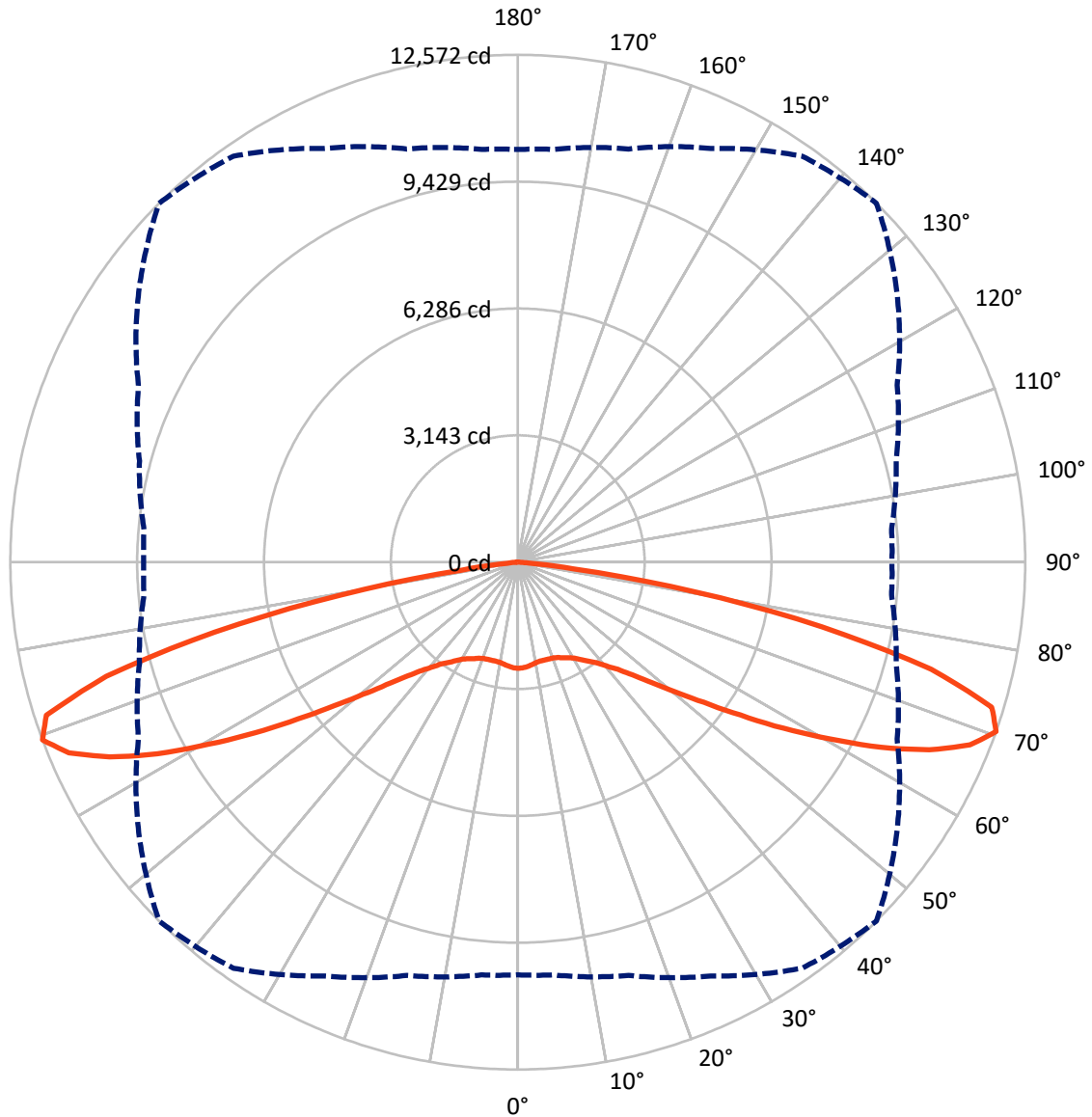
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	15527.5	0.0	15527.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15527.5	0.0	15527.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31055.0	0.0	31055.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	0.8
10°-20°	719.8	2.3
20°-30°	1226.4	3.9
30°-40°	1900.9	6.1
40°-50°	3199.5	10.3
50°-60°	5821.4	18.7
60°-70°	9855.5	31.7
70°-80°	7628.5	24.6
80°-90°	457.1	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°	31055.0	100.0
0°-180°	31055.0	100.0



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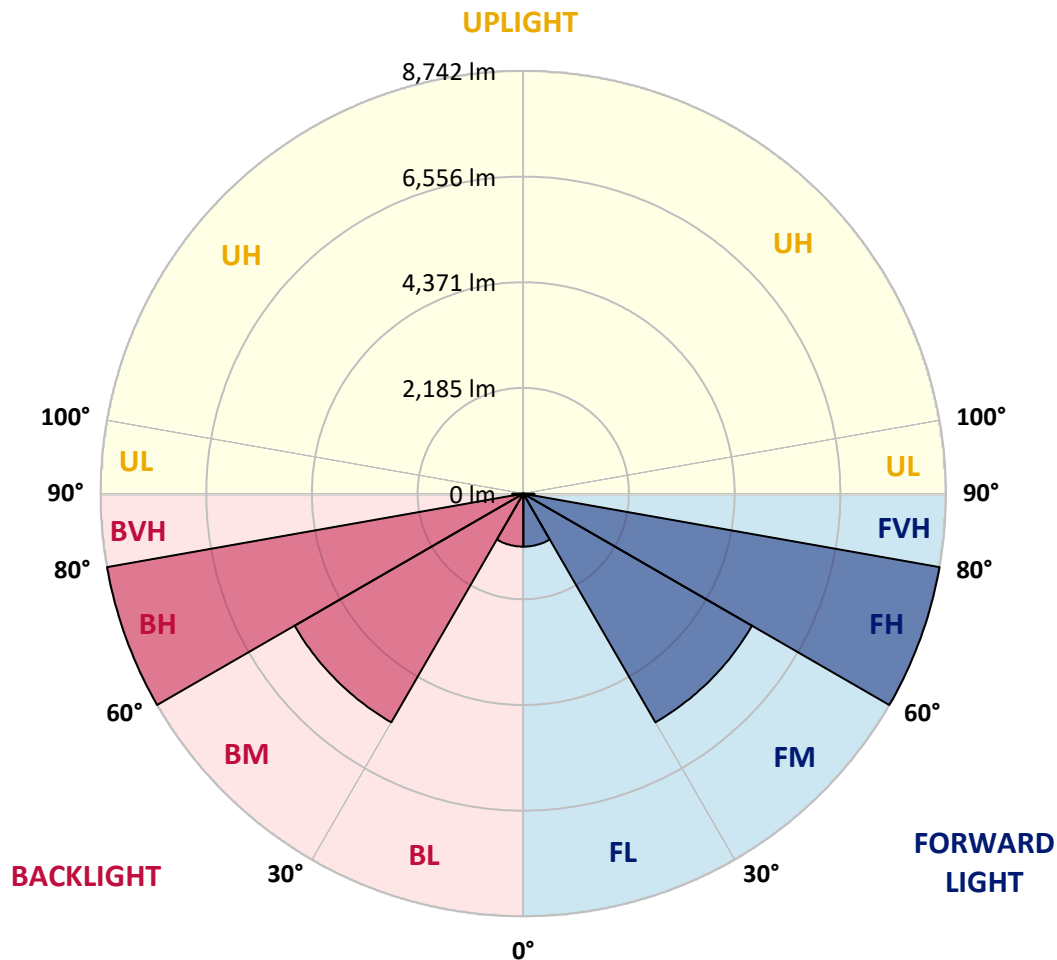
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.1	3.5			
FM (30°-60°)	5460.9	17.6			
FH (60°-80°)	8742.0	28.1			G4/12000
FVH (80°-90°)	228.6	0.7			G3/500
BL (0°-30°)	1096.1	3.5	B3/2500		
BM (30°-60°)	5460.9	17.6	B4/8500		
BH (60°-80°)	8742.0	28.1	B5		G4/12000
BVH (80°-90°)	228.6	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°	2629.2	2629.2	2629.2	2629.2	2629.2	2629.2	2629.2	2629.2	2629.2	2629.2	2629.2
2.5°	2622.6	2624.3	2624.3	2621.0	2619.3	2619.3	2617.7	2617.7	2622.6	2624.3	2625.9
5°	2599.7	2599.7	2599.7	2598.0	2594.7	2594.7	2591.5	2591.5	2593.1	2598.0	2594.7
7.5°	2568.5	2571.8	2571.8	2565.2	2560.3	2560.3	2558.7	2560.3	2561.9	2566.9	2565.2
10°	2558.7	2560.3	2552.1	2540.6	2532.4	2527.5	2529.1	2532.4	2540.6	2543.9	2545.5
12.5°	2565.2	2565.2	2550.5	2534.1	2519.3	2512.7	2511.1	2522.6	2537.3	2547.2	2550.5
15°	2573.4	2570.1	2552.1	2530.8	2516.0	2514.4	2512.7	2520.9	2542.3	2561.9	2563.6
17.5°	2578.3	2576.7	2553.7	2527.5	2519.3	2519.3	2517.7	2524.2	2547.2	2571.8	2573.4
20°	2594.7	2589.8	2563.6	2535.7	2529.1	2532.4	2527.5	2535.7	2560.3	2589.8	2596.4
22.5°	2627.5	2622.6	2596.4	2568.5	2565.2	2565.2	2563.6	2571.8	2598.0	2629.2	2634.1
25°	2666.9	2662.0	2637.4	2617.7	2621.0	2627.5	2624.3	2625.9	2647.2	2673.5	2681.7
27.5°	2719.4	2711.2	2689.9	2673.5	2683.3	2683.3	2683.3	2681.7	2694.8	2719.4	2727.6
30°	2783.4	2780.1	2757.1	2755.5	2763.7	2755.5	2755.5	2757.1	2758.8	2781.7	2789.9
32.5°	2867.0	2860.4	2849.0	2845.7	2868.7	2875.2	2852.2	2830.9	2842.4	2865.4	2870.3
35°	3004.8	2994.9	2978.5	2960.5	2978.5	3009.7	2960.5	2944.1	2973.6	3004.8	3008.1
37.5°	3191.8	3186.8	3160.6	3127.8	3126.2	3159.0	3108.1	3106.5	3162.2	3200.0	3204.9
40°	3426.3	3431.2	3398.4	3367.3	3350.9	3377.1	3337.7	3352.5	3406.6	3449.3	3446.0
42.5°	3756.0	3737.9	3687.1	3657.6	3639.5	3629.7	3619.8	3642.8	3703.5	3749.4	3785.5
45°	4141.4	4134.9	4070.9	4034.8	3995.4	3980.7	3977.4	4018.4	4092.2	4148.0	4152.9
47.5°	4577.7	4562.9	4521.9	4484.2	4469.5	4451.4	4435.0	4466.2	4540.0	4579.3	4590.8
50°	5027.1	5030.4	5030.4	5023.8	5038.6	5041.9	4997.6	5009.1	5050.1	5046.8	5043.5
52.5°	5540.5	5558.5	5643.8	5652.0	5722.5	5770.1	5689.7	5642.2	5627.4	5538.8	5545.4
55°	6144.1	6160.5	6288.4	6416.3	6606.6	6687.0	6518.0	6370.4	6265.4	6130.9	6137.5
57.5°	6896.9	6905.1	7026.5	7272.5	7574.3	7762.9	7466.0	7174.1	6960.9	6832.9	6782.1
60°	7707.1	7715.3	7892.5	8192.6	8661.7	8891.3	8523.9	8046.7	7777.7	7582.5	7595.6
62.5°	8679.8	8712.6	8871.7	9285.0	9854.1	10111.6	9624.5	8986.5	8622.4	8379.6	8389.4
65°	9721.3	9777.0	9950.9	10405.2	10930.1	11207.3	10610.2	9873.8	9421.1	9124.2	9155.4
67.5°	10397.0	10446.2	10697.2	11199.1	11853.5	12083.1	11312.2	10454.4	9888.6	9534.3	9468.7
70°	10224.8	10265.8	10600.4	11312.2	12281.6	12571.9	11479.5	10369.1	9703.2	9294.8	9268.6
72.5°	9025.8	8940.5	9429.3	10451.1	11792.8	12279.9	10953.0	9470.3	8632.2	8212.3	8163.1
75°	5981.7	6167.0	6888.7	8092.6	9977.1	10580.7	9348.9	7603.8	6549.2	6199.8	6145.7
77.5°	1999.4	2142.1	2783.4	4587.5	6801.8	7708.8	6811.6	4973.0	3518.2	2834.2	2847.3
80°	529.8	523.2	677.4	1261.3	2939.2	4464.5	3421.4	1684.5	921.8	667.5	633.1
82.5°	190.3	213.2	273.9	349.4	779.1	1387.6	979.2	472.4	346.1	255.9	247.7
85°	83.6	82.0	118.1	139.4	195.2	259.1	229.6	200.1	175.5	116.5	108.3
87.5°	18.0	18.0	27.9	21.3	34.4	34.4	42.6	50.8	52.5	34.4	27.9
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)