

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: P459124

Luminaire Tested: **GALN-SA6B-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459124
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-SA6B-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32897 lumens
Efficiency: N/A
Efficacy: 135.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

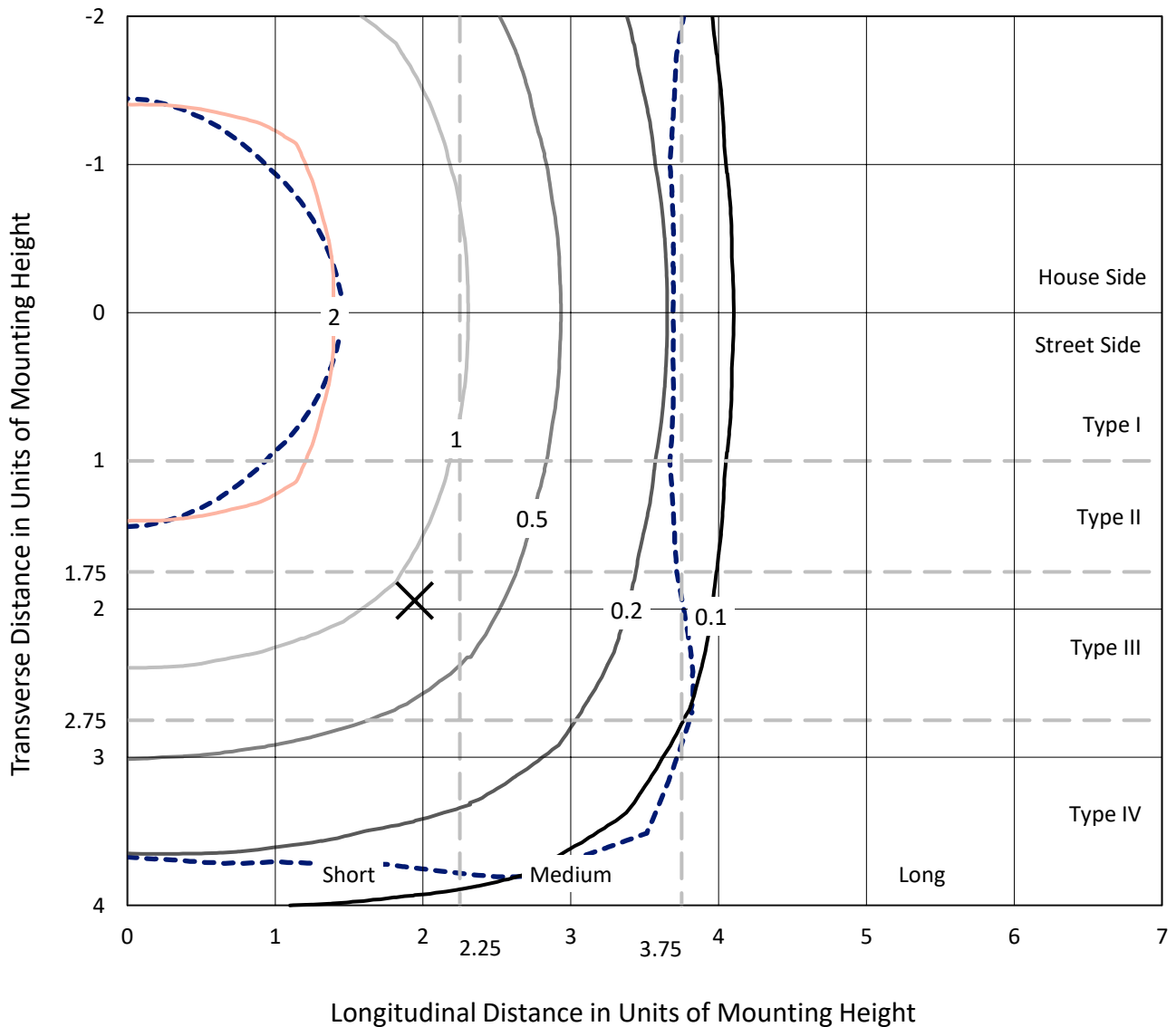
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

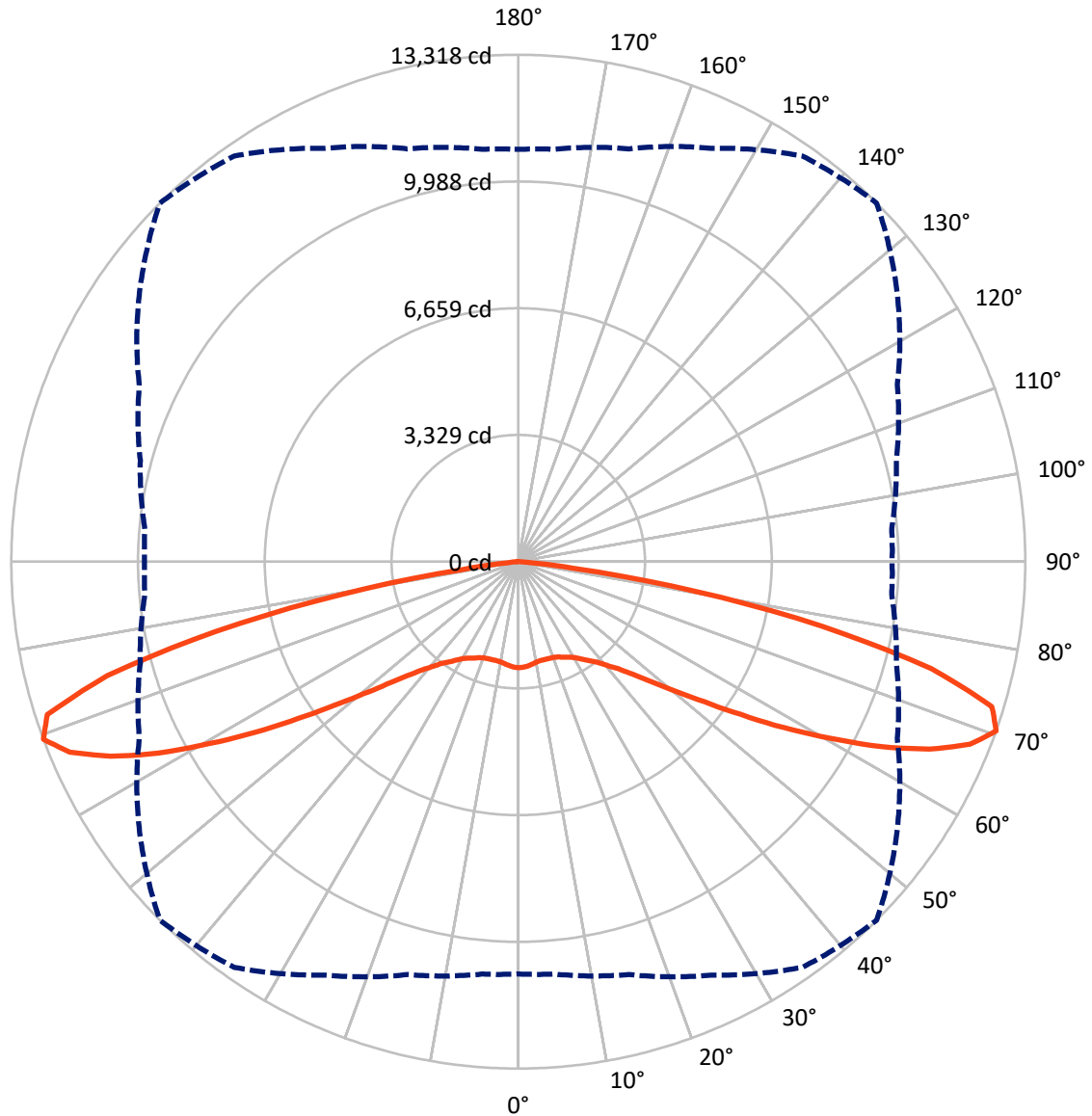
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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	16448.5	0.0	16448.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16448.5	0.0	16448.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32897.0	0.0	32897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	0.8
10°-20°	762.5	2.3
20°-30°	1299.2	3.9
30°-40°	2013.7	6.1
40°-50°	3389.3	10.3
50°-60°	6166.7	18.7
60°-70°	10440.0	31.7
70°-80°	8081.0	24.6
80°-90°	484.2	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°	32897.0	100.0
0°-180°	32897.0	100.0

Coefficient of Utilization



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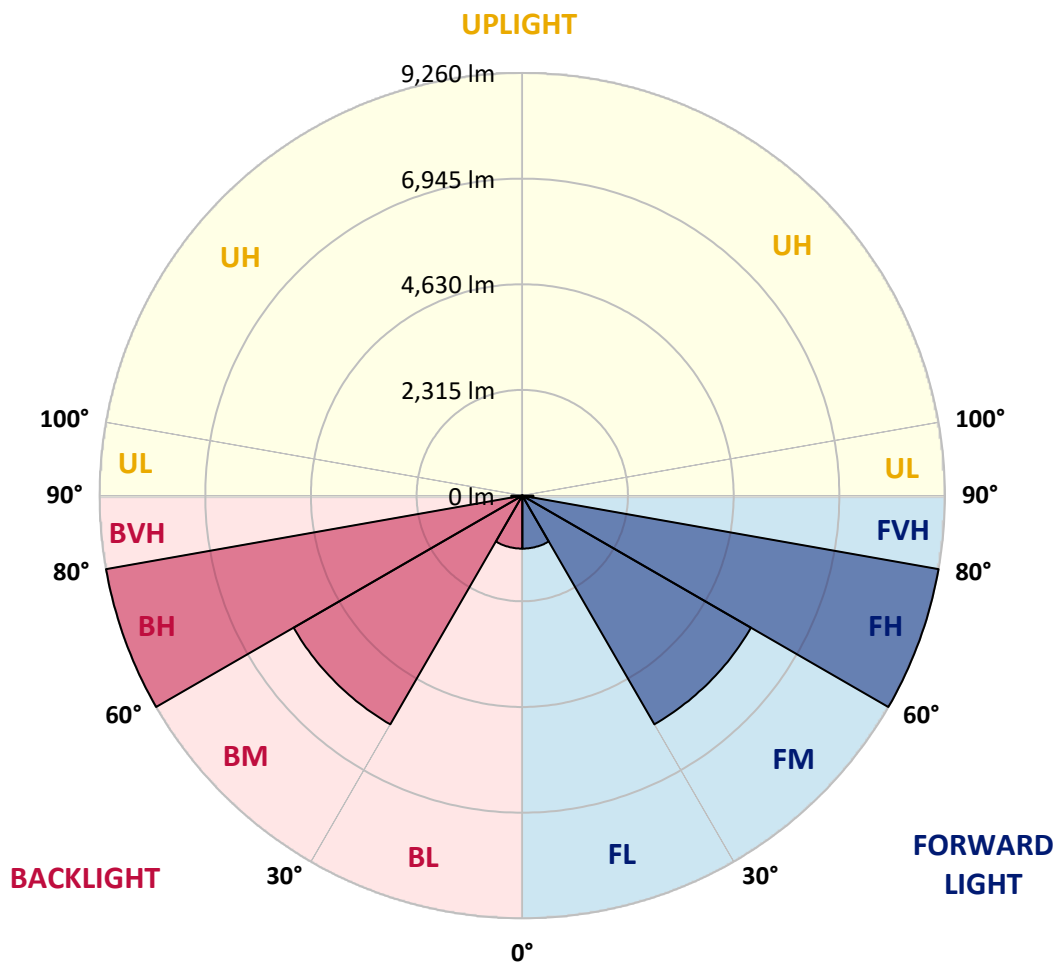
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.1	3.5			
FM (30°-60°)	5784.8	17.6			
FH (60°-80°)	9260.5	28.1			G4/12000
FVH (80°-90°)	242.1	0.7			G3/500
BL (0°-30°)	1161.1	3.5	B3/2500		
BM (30°-60°)	5784.8	17.6	B4/8500		
BH (60°-80°)	9260.5	28.1	B5		G4/12000
BVH (80°-90°)	242.1	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°	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1	2785.1
2.5°	2778.2	2779.9	2779.9	2776.4	2774.7	2774.7	2773.0	2773.0	2778.2	2779.9	2781.7
5°	2753.9	2753.9	2753.9	2752.1	2748.6	2748.6	2745.2	2745.2	2746.9	2752.1	2748.6
7.5°	2720.8	2724.3	2724.3	2717.4	2712.2	2712.2	2710.4	2712.2	2713.9	2719.1	2717.4
10°	2710.4	2712.2	2703.5	2691.3	2682.6	2677.4	2679.1	2682.6	2691.3	2694.8	2696.5
12.5°	2717.4	2717.4	2701.7	2684.4	2668.7	2661.8	2660.0	2672.2	2687.8	2698.3	2701.7
15°	2726.1	2722.6	2703.5	2680.9	2665.2	2663.5	2661.8	2670.5	2693.0	2713.9	2715.6
17.5°	2731.3	2729.5	2705.2	2677.4	2668.7	2668.7	2667.0	2673.9	2698.3	2724.3	2726.1
20°	2748.6	2743.4	2715.6	2686.1	2679.1	2682.6	2677.4	2686.1	2712.2	2743.4	2750.4
22.5°	2783.4	2778.2	2750.4	2720.8	2717.4	2717.4	2715.6	2724.3	2752.1	2785.1	2790.3
25°	2825.1	2819.9	2793.8	2773.0	2776.4	2783.4	2779.9	2781.7	2804.2	2832.0	2840.7
27.5°	2880.7	2872.0	2849.4	2832.0	2842.5	2842.5	2842.5	2840.7	2854.6	2880.7	2889.4
30°	2948.5	2945.0	2920.7	2918.9	2927.6	2918.9	2918.9	2920.7	2922.4	2946.7	2955.4
32.5°	3037.1	3030.1	3018.0	3014.5	3038.8	3045.8	3021.4	2998.8	3011.0	3035.3	3040.5
35°	3183.0	3172.6	3155.2	3136.1	3155.2	3188.2	3136.1	3118.7	3150.0	3183.0	3186.5
37.5°	3381.1	3375.9	3348.1	3313.3	3311.6	3346.3	3292.5	3290.7	3349.8	3389.8	3395.0
40°	3629.5	3634.7	3600.0	3567.0	3549.6	3577.4	3535.7	3551.3	3608.7	3653.9	3650.4
42.5°	3978.8	3959.7	3905.8	3874.5	3855.4	3845.0	3834.6	3858.9	3923.2	3971.8	4010.0
45°	4387.1	4380.1	4312.4	4274.1	4232.4	4216.8	4213.3	4256.8	4334.9	4394.0	4399.2
47.5°	4849.2	4833.6	4790.2	4750.2	4734.6	4715.4	4698.1	4731.1	4809.3	4851.0	4863.1
50°	5325.3	5328.8	5328.8	5321.8	5337.4	5340.9	5294.0	5306.2	5349.6	5346.1	5342.7
52.5°	5869.1	5888.2	5978.6	5987.3	6062.0	6112.4	6027.2	5976.8	5961.2	5867.4	5874.3
55°	6508.5	6525.9	6661.4	6796.9	6998.5	7083.6	6904.6	6748.3	6637.1	6494.6	6501.5
57.5°	7306.0	7314.7	7443.2	7703.9	8023.5	8223.4	7908.9	7599.6	7373.7	7238.2	7184.4
60°	8164.3	8173.0	8360.6	8678.6	9175.5	9418.7	9029.5	8523.9	8239.0	8032.2	8046.1
62.5°	9194.6	9229.3	9397.9	9835.7	10438.6	10711.4	10195.4	9519.5	9133.8	8876.6	8887.1
65°	10297.9	10356.9	10541.1	11022.4	11578.4	11872.0	11239.6	10459.5	9979.9	9665.4	9698.5
67.5°	11013.7	11065.8	11331.7	11863.3	12556.6	12799.8	11983.2	11074.5	10475.1	10099.8	10030.3
70°	10831.3	10874.7	11229.1	11983.2	13010.0	13317.6	12160.4	10984.2	10278.8	9846.1	9818.3
72.5°	9561.2	9470.8	9988.6	11071.0	12492.3	13008.3	11602.7	10032.0	9144.2	8699.4	8647.3
75°	6336.5	6532.8	7297.3	8572.6	10568.9	11208.3	9903.5	8054.8	6937.6	6567.6	6510.2
77.5°	2118.0	2269.1	2948.5	4859.7	7205.2	8166.0	7215.6	5268.0	3726.8	3002.3	3016.2
80°	561.2	554.2	717.6	1336.1	3113.5	4729.3	3624.3	1784.4	976.4	707.1	670.7
82.5°	201.5	225.9	290.2	370.1	825.3	1469.9	1037.3	500.4	366.6	271.0	262.4
85°	88.6	86.9	125.1	147.7	206.8	274.5	243.2	212.0	185.9	123.4	114.7
87.5°	19.1	19.1	29.5	22.6	36.5	36.5	45.2	53.9	55.6	36.5	29.5
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)