

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: P454890

Luminaire Tested: **GALN-SA6A-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454890
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-SA6A-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 28382 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

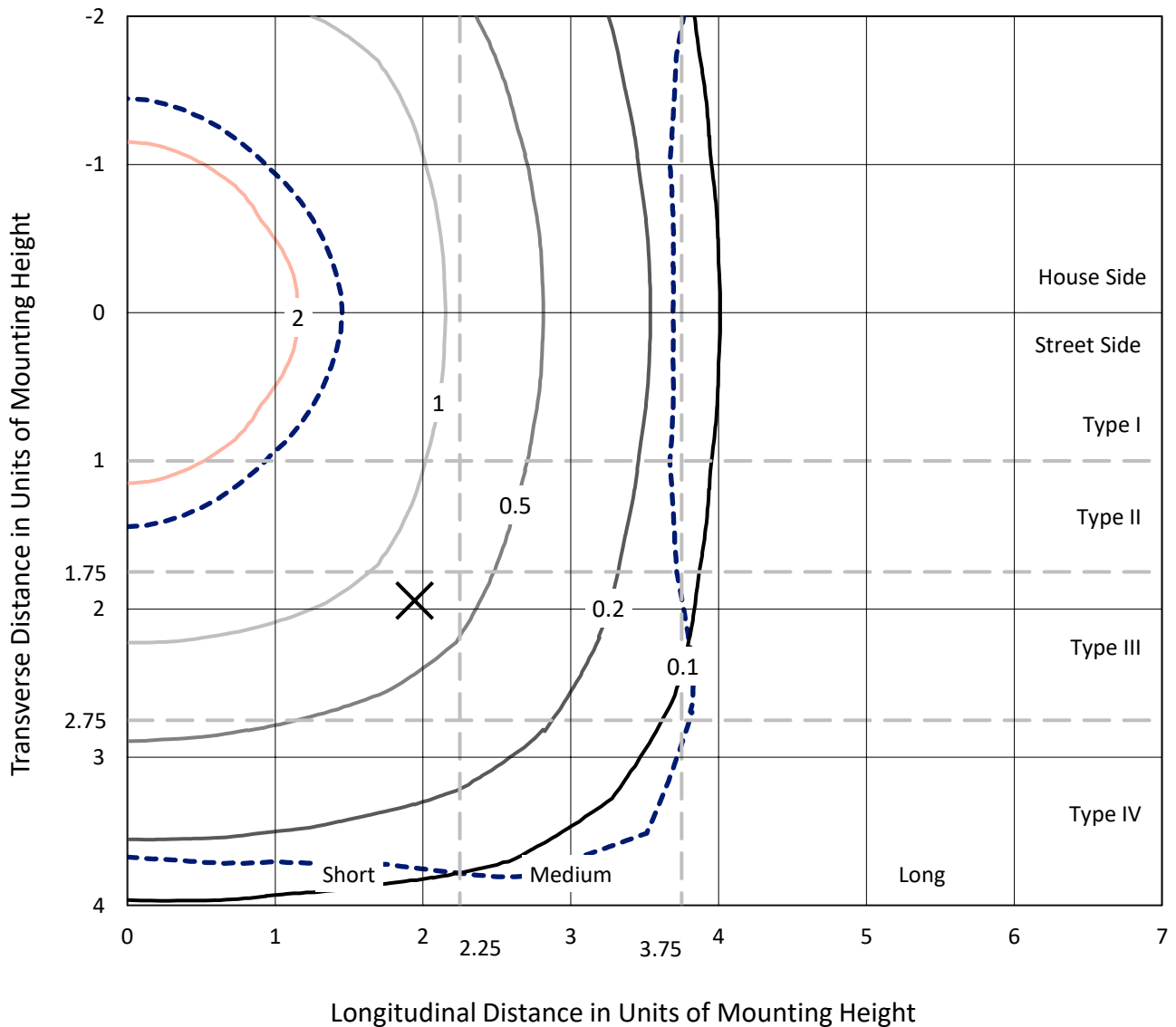
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

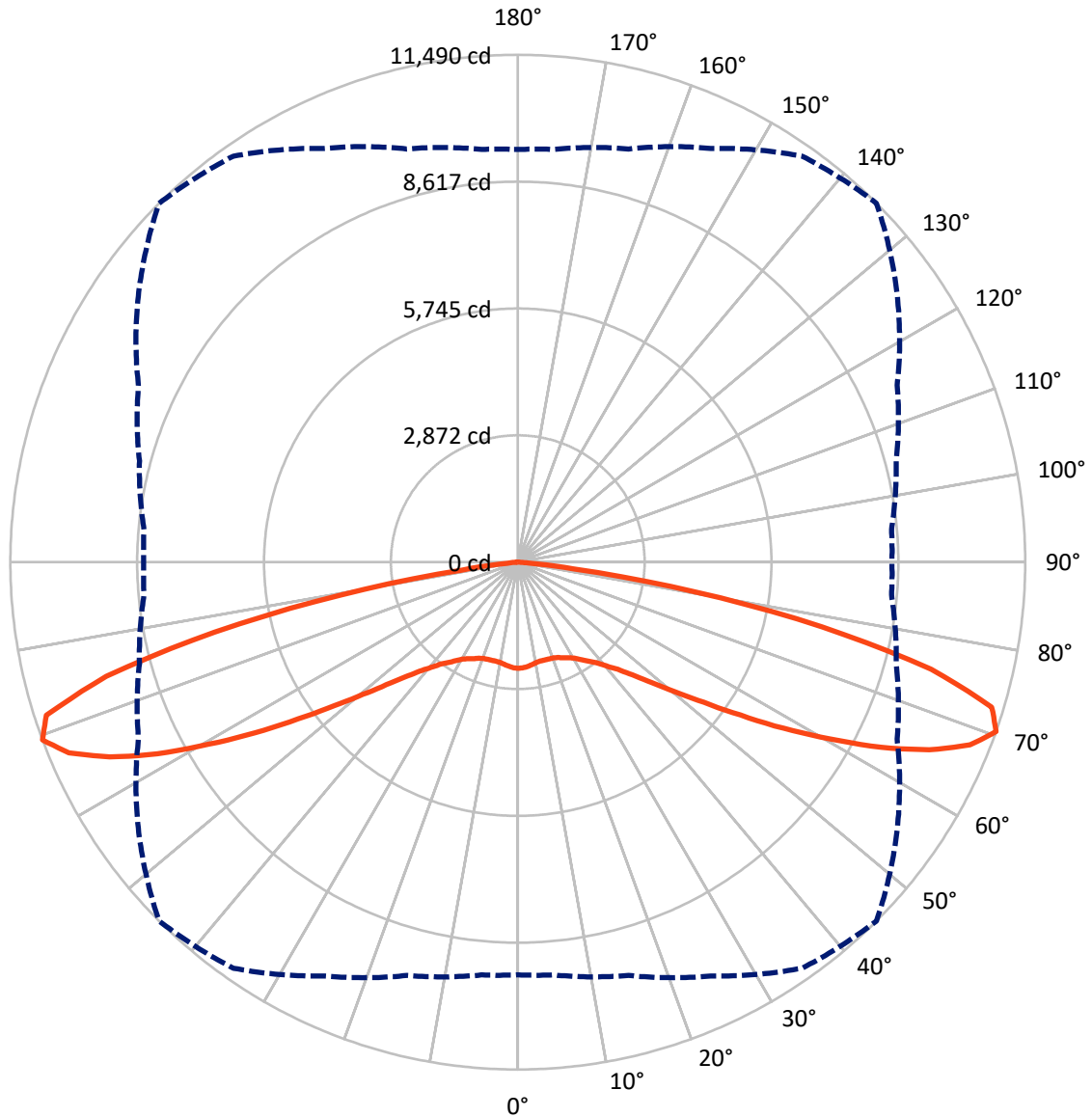
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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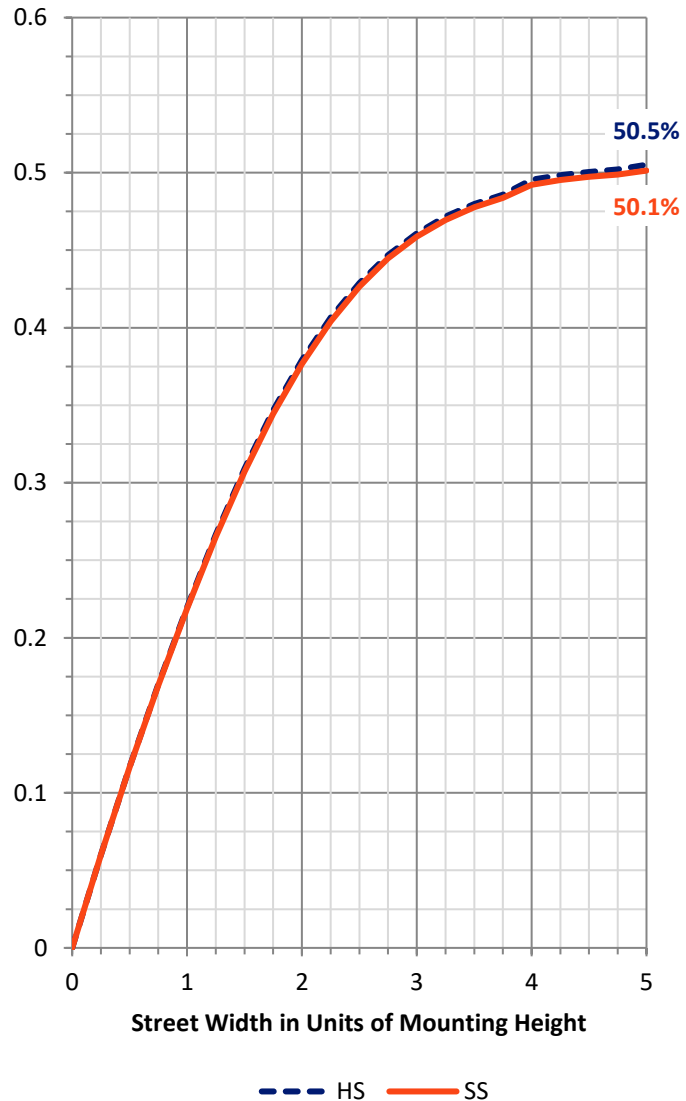
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14191.0	0.0	14191.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14191.0	0.0	14191.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	28382.0	0.0	28382.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.7	0.8
10°-20°	657.9	2.3
20°-30°	1120.9	3.9
30°-40°	1737.3	6.1
40°-50°	2924.1	10.3
50°-60°	5320.3	18.7
60°-70°	9007.2	31.7
70°-80°	6971.9	24.6
80°-90°	417.8	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°	28382.0	100.0
0°-180°	28382.0	100.0



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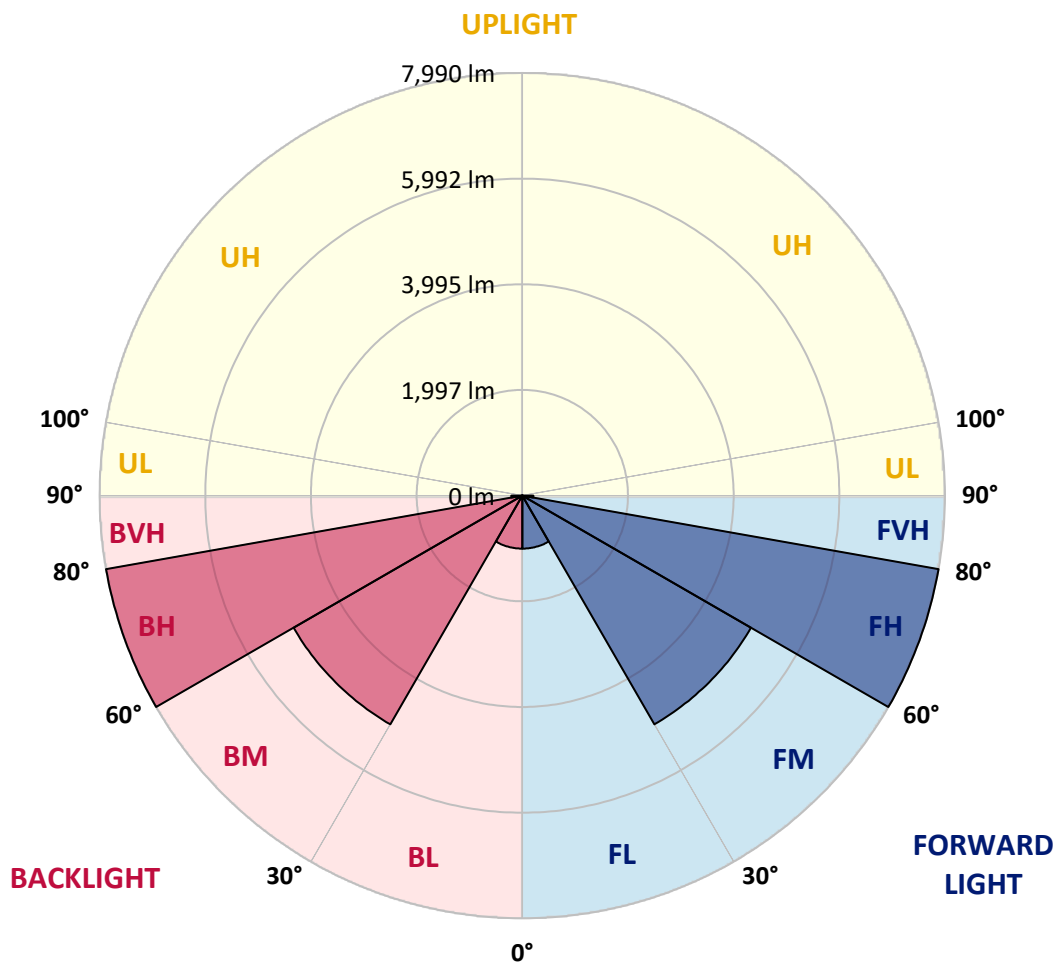
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1001.7	3.5			
FM (30°-60°)	4990.9	17.6			
FH (60°-80°)	7989.5	28.1			G4/12000
FVH (80°-90°)	208.9	0.7			G2/225
BL (0°-30°)	1001.7	3.5	B3/2500		
BM (30°-60°)	4990.9	17.6	B3/5000		
BH (60°-80°)	7989.5	28.1	B5		G4/12000
BVH (80°-90°)	208.9	0.7			G2/225
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°	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9	2402.9
2.5°	2396.9	2398.4	2398.4	2395.4	2393.9	2393.9	2392.4	2392.4	2396.9	2398.4	2399.9
5°	2375.9	2375.9	2375.9	2374.4	2371.4	2371.4	2368.4	2368.4	2369.9	2374.4	2371.4
7.5°	2347.4	2350.4	2350.4	2344.4	2339.9	2339.9	2338.4	2339.9	2341.4	2345.9	2344.4
10°	2338.4	2339.9	2332.4	2321.9	2314.4	2309.9	2311.4	2314.4	2321.9	2324.9	2326.4
12.5°	2344.4	2344.4	2330.9	2315.9	2302.5	2296.5	2295.0	2305.4	2318.9	2327.9	2330.9
15°	2351.9	2348.9	2332.4	2312.9	2299.5	2298.0	2296.5	2304.0	2323.4	2341.4	2342.9
17.5°	2356.4	2354.9	2333.9	2309.9	2302.5	2302.5	2301.0	2306.9	2327.9	2350.4	2351.9
20°	2371.4	2366.9	2342.9	2317.4	2311.4	2314.4	2309.9	2317.4	2339.9	2366.9	2372.9
22.5°	2401.4	2396.9	2372.9	2347.4	2344.4	2344.4	2342.9	2350.4	2374.4	2402.9	2407.4
25°	2437.4	2432.9	2410.4	2392.4	2395.4	2401.4	2398.4	2399.9	2419.4	2443.4	2450.9
27.5°	2485.3	2477.8	2458.3	2443.4	2452.4	2452.4	2452.4	2450.9	2462.8	2485.3	2492.8
30°	2543.8	2540.8	2519.8	2518.3	2525.8	2518.3	2518.3	2519.8	2521.3	2542.3	2549.8
32.5°	2620.2	2614.2	2603.7	2600.8	2621.7	2627.7	2606.7	2587.3	2597.8	2618.7	2623.2
35°	2746.2	2737.2	2722.2	2705.7	2722.2	2750.6	2705.7	2690.7	2717.7	2746.2	2749.2
37.5°	2917.0	2912.5	2888.6	2858.6	2857.1	2887.1	2840.6	2839.1	2890.1	2924.5	2929.0
40°	3131.4	3135.9	3105.9	3077.4	3062.4	3086.4	3050.4	3063.9	3113.4	3152.4	3149.4
42.5°	3432.7	3416.2	3369.7	3342.8	3326.3	3317.3	3308.3	3329.3	3384.7	3426.7	3459.7
45°	3785.0	3779.0	3720.5	3687.5	3651.5	3638.1	3635.1	3672.5	3740.0	3791.0	3795.4
47.5°	4183.7	4170.2	4132.7	4098.2	4084.8	4068.3	4053.3	4081.8	4149.2	4185.2	4195.7
50°	4594.4	4597.4	4597.4	4591.4	4604.9	4607.9	4567.4	4577.9	4615.4	4612.4	4609.4
52.5°	5063.6	5080.1	5158.0	5165.5	5230.0	5273.5	5200.0	5156.5	5143.0	5062.1	5068.1
55°	5615.2	5630.2	5747.1	5864.1	6037.9	6111.4	5957.0	5822.1	5726.1	5603.2	5609.2
57.5°	6303.3	6310.8	6421.7	6646.5	6922.3	7094.7	6823.4	6556.6	6361.7	6244.8	6198.3
60°	7043.8	7051.3	7213.1	7487.5	7916.2	8126.0	7790.3	7354.1	7108.2	6929.8	6941.8
62.5°	7932.7	7962.6	8108.0	8485.8	9005.9	9241.3	8796.1	8213.0	7880.2	7658.3	7667.3
65°	8884.5	8935.5	9094.4	9509.6	9989.3	10242.6	9697.0	9023.9	8610.2	8338.9	8367.4
67.5°	9502.1	9547.1	9776.4	10235.1	10833.2	11043.1	10338.5	9554.6	9037.4	8713.6	8653.7
70°	9344.7	9382.2	9688.0	10338.5	11224.5	11489.8	10491.4	9476.6	8868.0	8494.8	8470.8
72.5°	8249.0	8171.0	8617.7	9551.6	10777.8	11223.0	10010.3	8655.2	7889.2	7505.5	7460.5
75°	5466.8	5636.2	6295.8	7396.0	9118.4	9670.0	8544.3	6949.3	5985.5	5666.2	5616.7
77.5°	1827.3	1957.7	2543.8	4192.7	6216.3	7045.3	6225.3	4544.9	3215.3	2590.3	2602.2
80°	484.2	478.2	619.1	1152.7	2686.2	4080.3	3126.9	1539.5	842.4	610.1	578.6
82.5°	173.9	194.9	250.3	319.3	712.0	1268.1	894.9	431.7	316.3	233.8	226.3
85°	76.4	74.9	107.9	127.4	178.4	236.8	209.9	182.9	160.4	106.4	98.9
87.5°	16.5	16.5	25.5	19.5	31.5	31.5	39.0	46.5	48.0	31.5	25.5
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)