

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: P453931

Luminaire Tested: **GALN-SA5A-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453931
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21875 lumens
Efficiency: N/A
Efficacy: 142.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

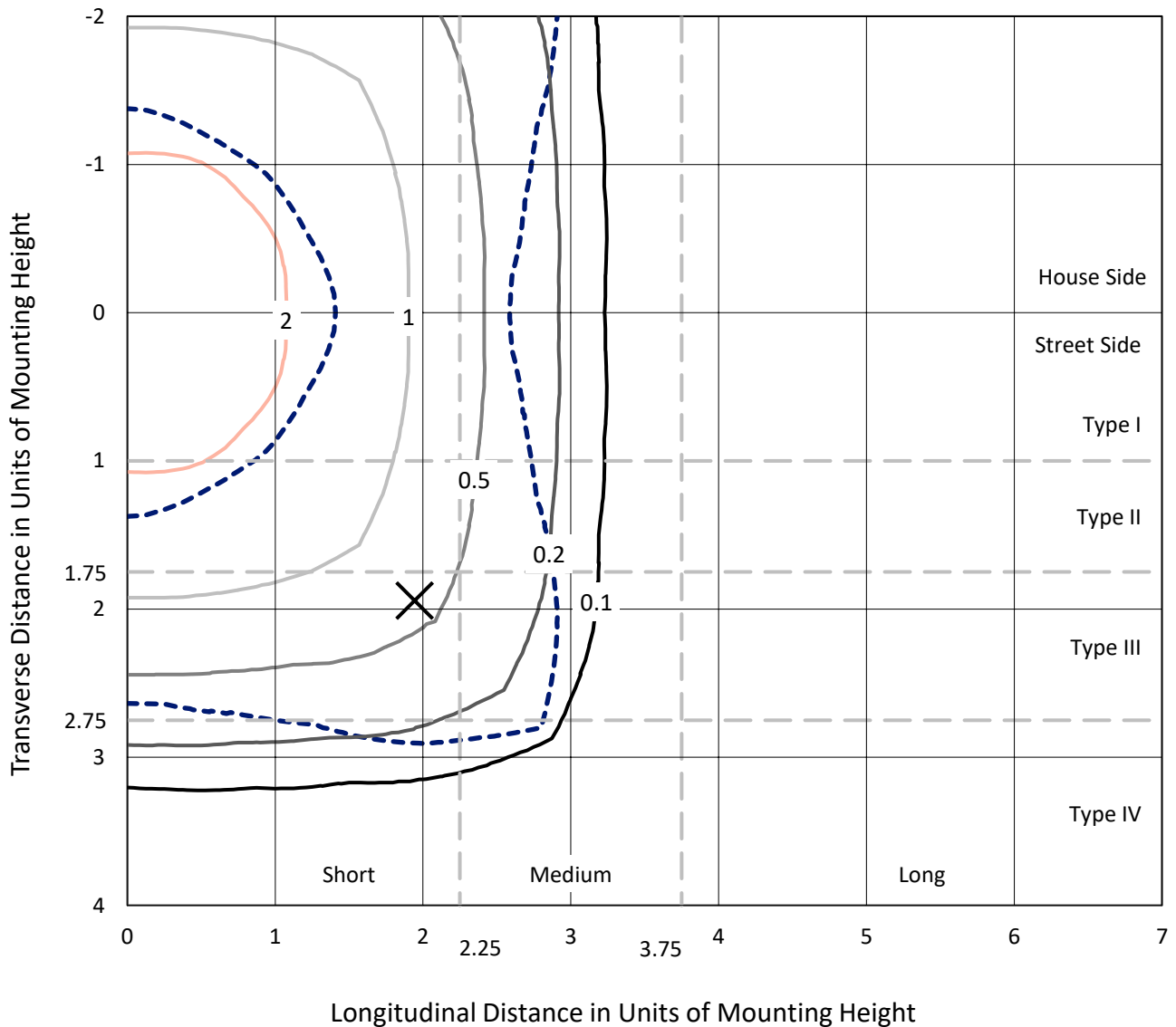
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

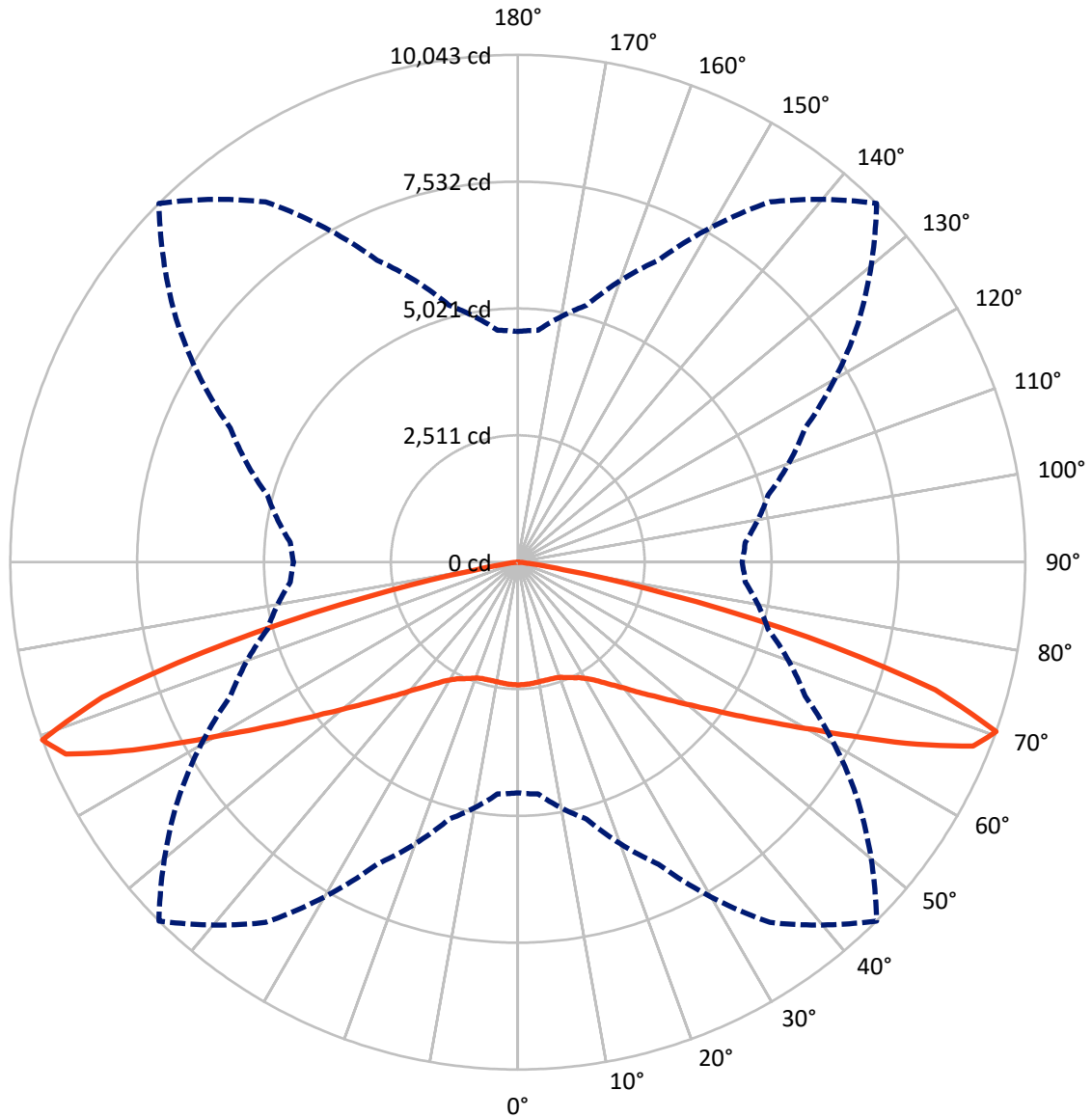
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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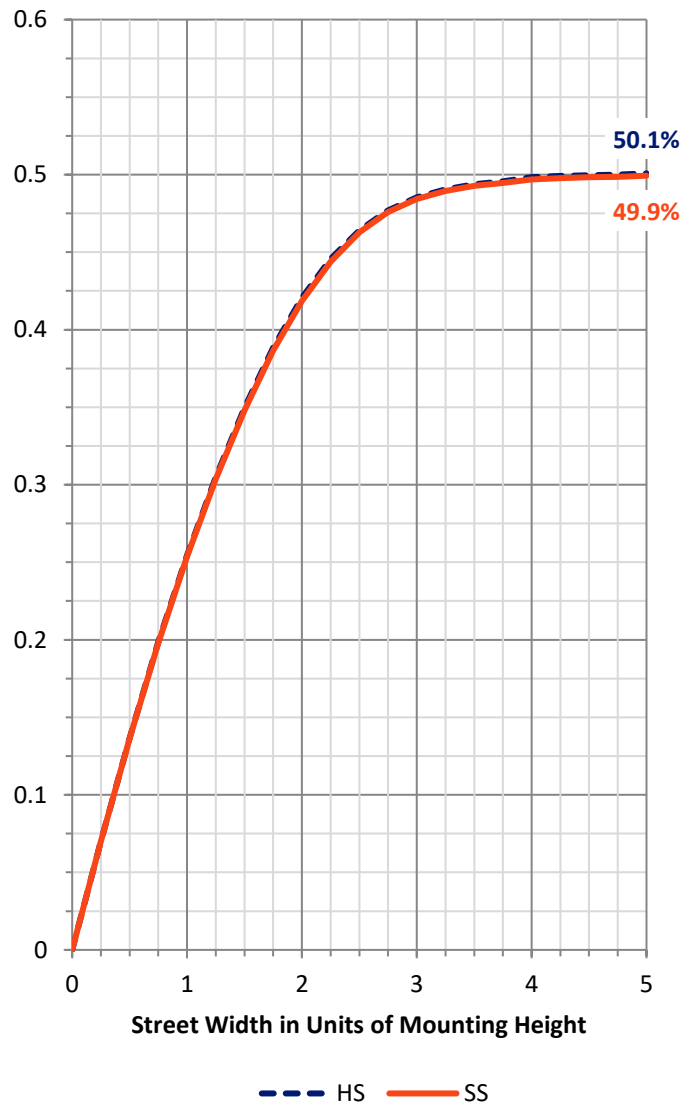
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10937.5	0.0	10937.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10937.5	0.0	10937.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21875.0	0.0	21875.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	1.1
10°-20°	675.9	3.1
20°-30°	1156.1	5.3
30°-40°	1834.9	8.4
40°-50°	2960.2	13.5
50°-60°	4816.4	22.0
60°-70°	6982.0	31.9
70°-80°	3097.0	14.2
80°-90°	122.1	0.6
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°	21875.0	100.0
0°-180°	21875.0	100.0



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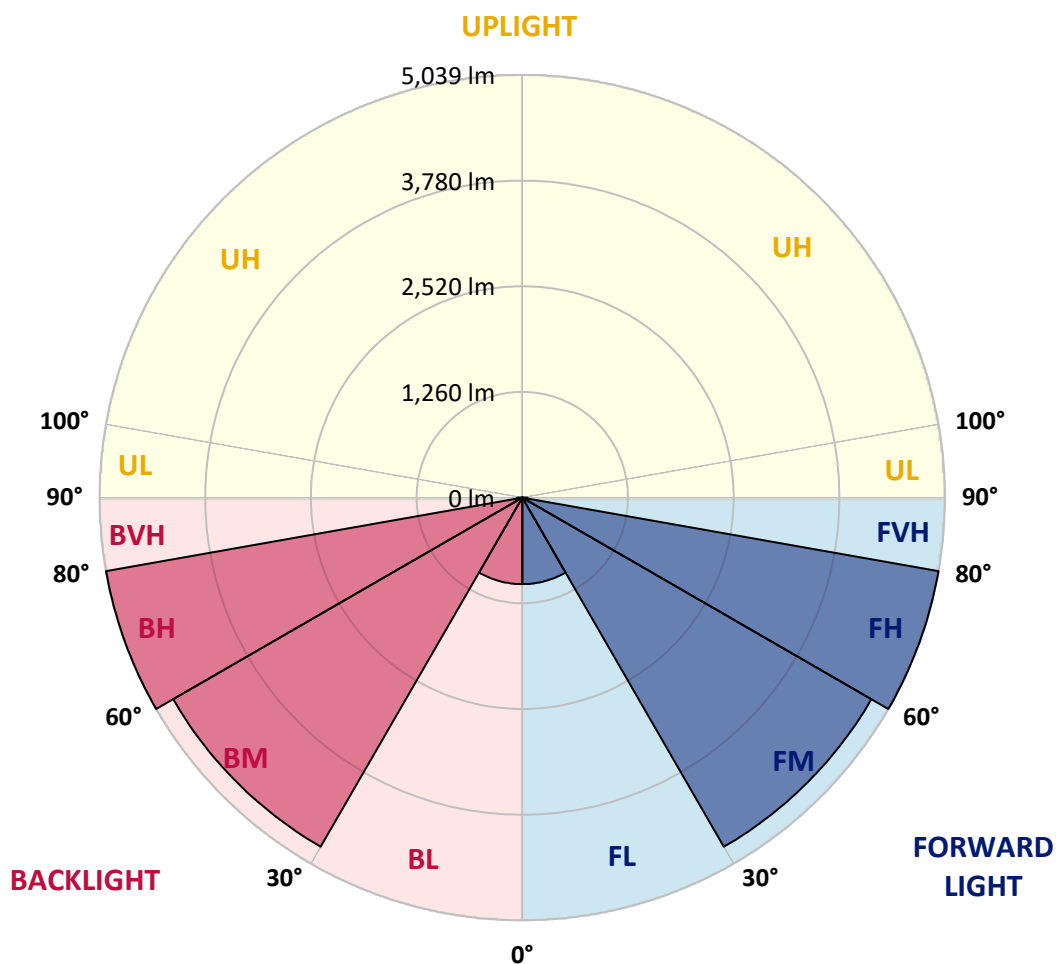
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1031.2	4.7			
FM (30°-60°)	4805.8	22.0			
FH (60°-80°)	5039.5	23.0			G3/7500
FVH (80°-90°)	61.1	0.3			G1/100
BL (0°-30°)	1031.2	4.7	B3/2500		
BM (30°-60°)	4805.8	22.0	B3/5000		
BH (60°-80°)	5039.5	23.0	B5		G3/7500
BVH (80°-90°)	61.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2429.1	2429.1	2429.1	2429.1	2429.1	2429.1	2429.1	2429.1	2429.1	2429.1	2429.1
2.5°	2429.1	2431.4	2428.0	2425.7	2424.5	2424.5	2423.4	2424.5	2431.4	2432.6	2429.1
5°	2422.2	2424.5	2423.4	2421.0	2419.9	2419.9	2418.7	2417.6	2423.4	2425.7	2424.5
7.5°	2413.0	2414.1	2413.0	2411.8	2413.0	2411.8	2408.4	2406.1	2410.7	2410.7	2409.5
10°	2396.8	2399.1	2398.0	2399.1	2401.4	2401.4	2396.8	2392.2	2393.4	2391.1	2391.1
12.5°	2377.2	2380.7	2381.8	2386.5	2392.2	2399.1	2388.8	2378.4	2376.1	2374.9	2373.8
15°	2364.6	2368.0	2372.6	2377.2	2387.6	2402.6	2387.6	2371.5	2366.9	2362.2	2359.9
17.5°	2361.1	2365.7	2372.6	2379.5	2393.4	2408.4	2395.7	2379.5	2368.0	2361.1	2358.8
20°	2370.3	2373.8	2384.2	2396.8	2416.4	2431.4	2418.7	2401.4	2384.2	2373.8	2370.3
22.5°	2388.8	2394.5	2407.2	2430.3	2457.9	2479.8	2462.5	2433.7	2406.1	2392.2	2387.6
25°	2429.1	2433.7	2448.7	2479.8	2512.1	2532.9	2514.4	2481.0	2443.0	2424.5	2418.7
27.5°	2490.2	2497.1	2513.3	2550.2	2576.7	2588.2	2575.5	2552.5	2524.8	2505.2	2500.6
30°	2576.7	2584.8	2609.0	2648.2	2665.5	2672.4	2666.6	2651.6	2632.0	2611.3	2606.7
32.5°	2693.1	2697.7	2725.4	2762.3	2778.4	2780.7	2773.8	2766.9	2734.6	2700.0	2697.7
35°	2823.4	2831.5	2864.9	2908.7	2923.7	2924.9	2911.0	2900.6	2862.6	2834.9	2834.9
37.5°	2996.3	2999.8	3032.1	3081.6	3097.8	3093.2	3086.3	3077.0	3036.7	3000.9	3002.1
40°	3199.2	3206.2	3233.8	3291.5	3291.5	3285.7	3290.3	3283.4	3243.0	3208.5	3209.6
42.5°	3440.2	3443.6	3477.1	3538.2	3533.6	3522.0	3526.7	3517.4	3492.1	3452.9	3439.0
45°	3697.3	3711.1	3768.8	3827.6	3818.3	3781.4	3799.9	3797.6	3774.5	3715.7	3719.2
47.5°	4007.4	4030.5	4085.8	4156.1	4145.8	4088.1	4108.9	4122.7	4090.4	4025.9	4014.3
50°	4356.7	4371.7	4453.6	4519.3	4510.1	4449.0	4496.2	4498.5	4417.8	4326.8	4326.8
52.5°	4729.1	4744.1	4854.8	4957.4	4963.1	4874.4	4912.4	4910.1	4778.7	4658.8	4635.7
55°	5146.5	5153.4	5296.3	5447.4	5479.6	5393.2	5397.8	5351.7	5181.0	5041.5	5028.9
57.5°	5577.6	5603.0	5760.9	5956.9	6052.6	5999.6	5975.4	5852.0	5687.2	5526.9	5518.8
60°	6054.9	6056.1	6261.3	6493.0	6686.7	6722.4	6623.3	6458.4	6245.1	6033.0	6023.8
62.5°	6385.8	6435.4	6694.8	7086.7	7433.8	7634.4	7372.7	7026.8	6607.1	6264.7	6230.2
65°	6453.8	6487.2	6882.7	7546.7	8255.8	8688.1	8082.8	7347.3	6631.4	6174.8	6151.8
67.5°	5903.9	5939.6	6472.3	7491.4	8832.2	9718.8	8544.0	7192.8	6220.9	5656.0	5611.1
70°	4566.6	4606.9	5265.2	6594.5	8704.2	10042.7	8215.4	6274.0	5130.3	4520.4	4438.6
72.5°	2428.0	2576.7	3139.3	4526.2	7064.8	8646.6	6736.3	4578.1	3308.8	2704.7	2596.3
75°	886.6	905.0	1218.6	2007.2	4110.0	5929.3	4268.0	2183.6	1255.5	969.6	920.0
77.5°	366.6	365.5	401.2	606.4	1493.0	3036.7	1665.9	641.0	400.0	370.1	365.5
80°	216.7	216.7	238.6	252.5	393.1	916.5	439.2	285.9	239.8	219.0	222.5
82.5°	96.8	102.6	151.0	159.1	190.2	251.3	212.1	182.2	156.8	108.4	98.0
85°	53.0	46.1	79.5	83.0	91.1	93.4	100.3	99.1	91.1	53.0	54.2
87.5°	10.4	12.7	23.1	17.3	19.6	17.3	23.1	32.3	33.4	18.4	15.0
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)