

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: P529809

Luminaire Tested: **GALN-SA5A-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14328 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

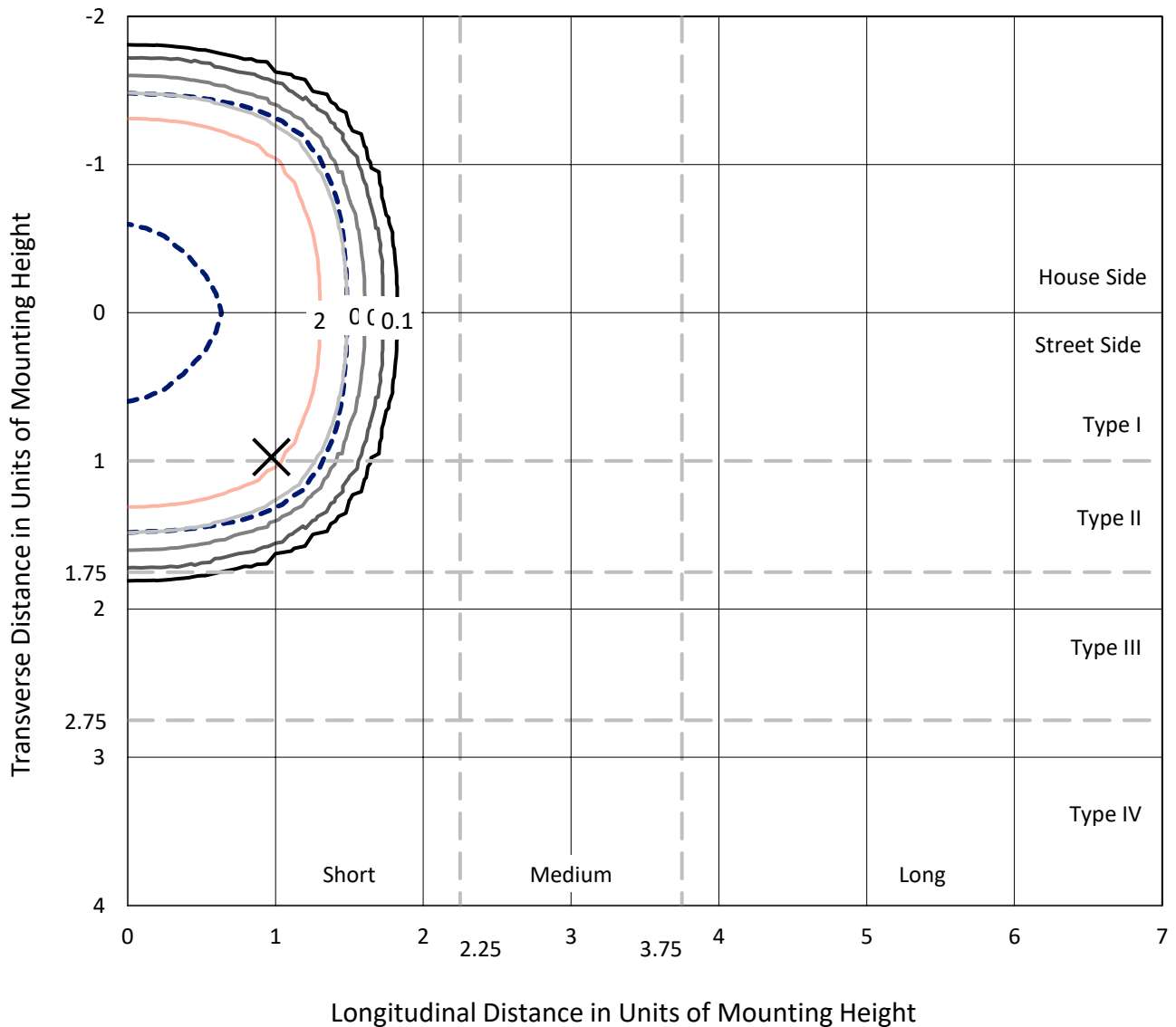
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

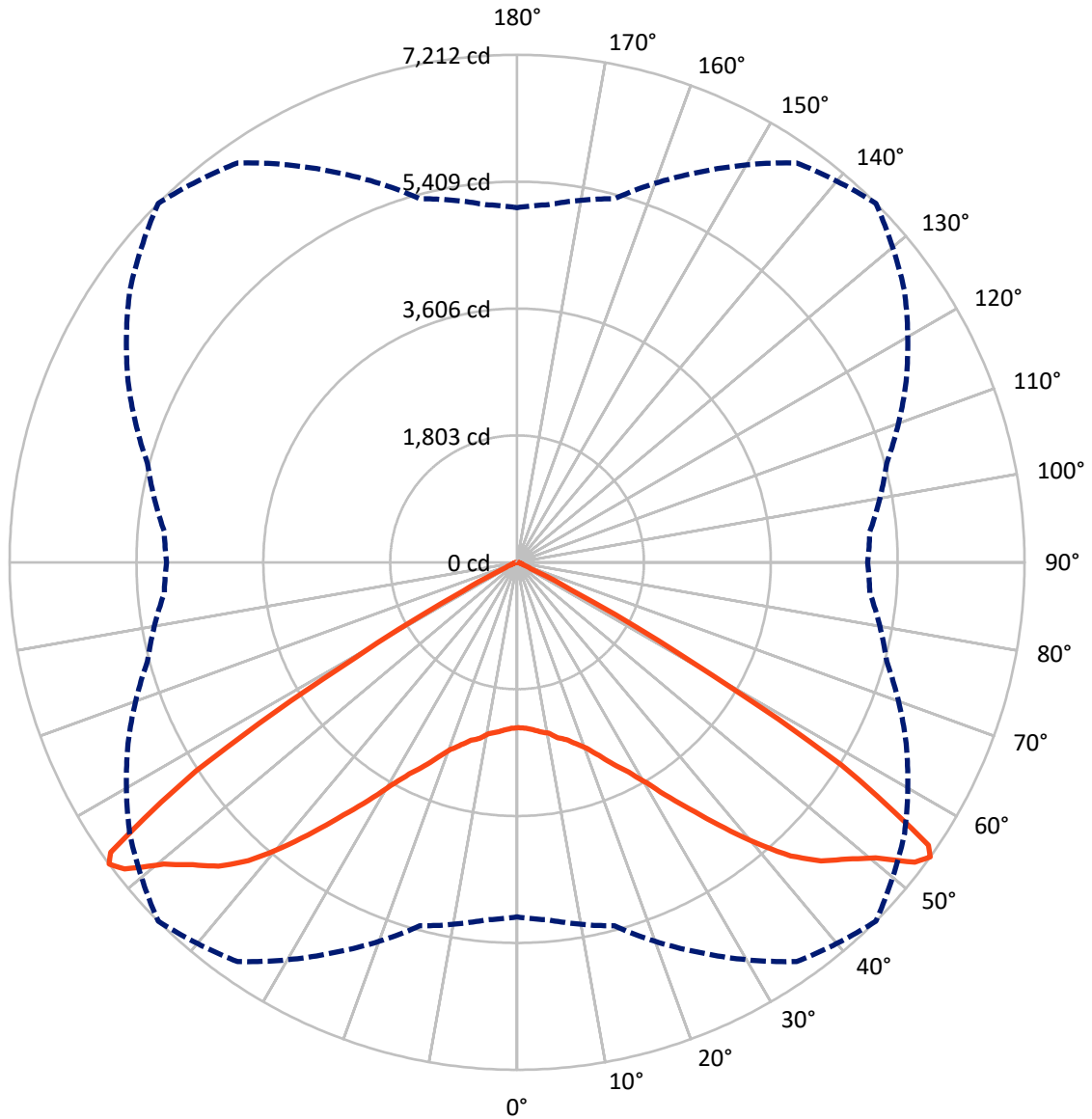
× Max cd
 - - - 1/2 Max cd



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 54-Deg Vertical

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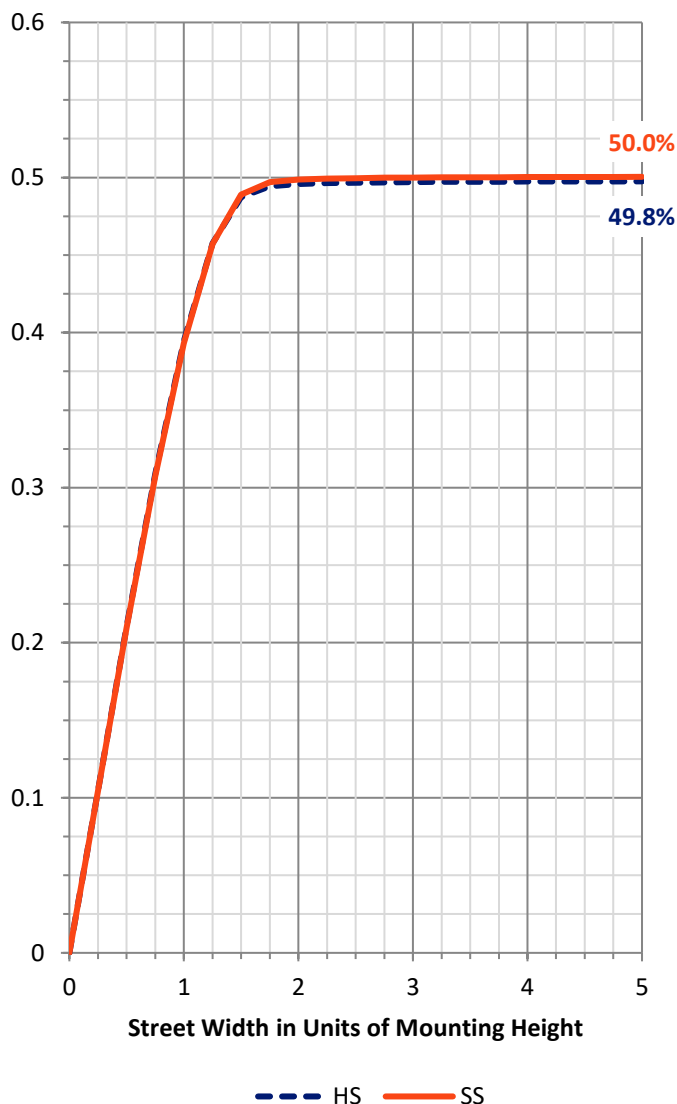
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7164.0	0.0	7164.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7164.0	0.0	7164.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14328.0	0.0	14328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.9	1.6
10°-20°	744.6	5.2
20°-30°	1459.5	10.2
30°-40°	2624.4	18.3
40°-50°	4492.5	31.4
50°-60°	4346.9	30.3
60°-70°	372.1	2.6
70°-80°	44.1	0.3
80°-90°	13.8	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°	14328.0	100.0
0°-180°	14328.0	100.0

Coefficient of Utilization

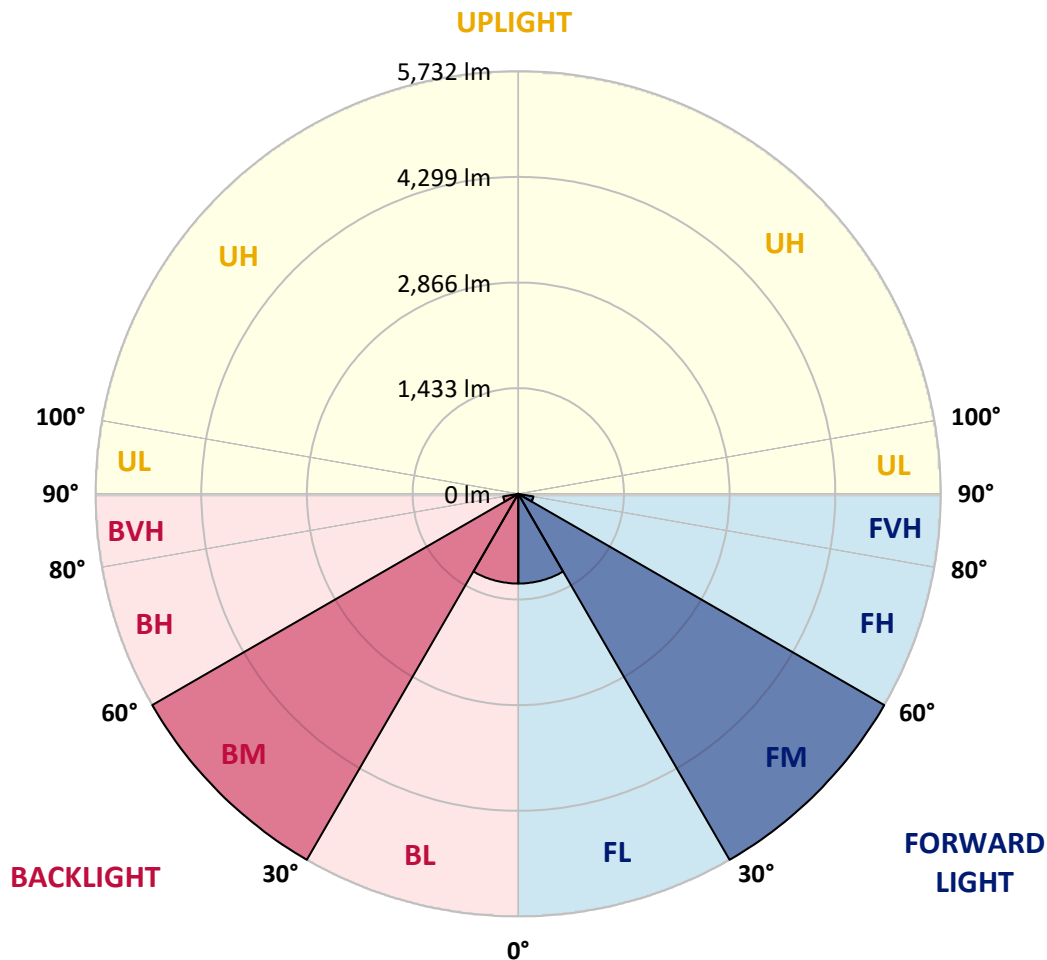


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1217.0	8.5			
FM (30°-60°)	5731.9	40.0			
FH (60°-80°)	208.1	1.5			G0/660
FVH (80°-90°)	6.9	0.0			G0/10
BL (0°-30°)	1217.0	8.5	B3/2500		
BM (30°-60°)	5731.9	40.0	B4/8500		
BH (60°-80°)	208.1	1.5	B1/500		G0/660
BVH (80°-90°)	6.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3	2349.3
2.5°	2360.7	2374.3	2365.2	2372.0	2372.0	2360.7	2367.5	2340.3	2358.4	2344.8	2347.1
5°	2397.0	2394.7	2394.7	2397.0	2387.9	2392.5	2383.4	2374.3	2367.5	2358.4	2385.7
7.5°	2442.4	2442.4	2426.5	2431.1	2426.5	2433.3	2415.2	2397.0	2390.2	2383.4	2378.9
10°	2485.5	2481.0	2474.2	2494.6	2478.7	2469.7	2460.6	2449.2	2424.3	2415.2	2406.1
12.5°	2549.1	2546.8	2537.7	2558.2	2549.1	2558.2	2524.1	2494.6	2490.1	2460.6	2476.5
15°	2624.0	2644.4	2628.5	2628.5	2624.0	2612.7	2599.0	2585.4	2544.6	2533.2	2535.5
17.5°	2721.6	2714.8	2717.1	2717.1	2739.8	2710.3	2683.0	2649.0	2628.5	2621.7	2599.0
20°	2814.7	2823.8	2821.5	2837.4	2851.0	2819.2	2789.7	2785.2	2728.4	2737.5	2705.7
22.5°	2978.1	2971.3	2982.6	2994.0	2984.9	2980.4	2953.1	2919.1	2869.2	2846.5	2841.9
25°	3150.6	3139.3	3118.8	3146.1	3159.7	3180.1	3127.9	3109.8	3032.6	2998.5	3000.8
27.5°	3298.2	3314.1	3336.8	3348.1	3382.1	3375.3	3339.0	3280.0	3221.0	3182.4	3157.4
30°	3500.2	3509.3	3547.9	3563.7	3622.8	3638.6	3581.9	3513.8	3409.4	3359.5	3329.9
32.5°	3686.3	3749.9	3747.6	3827.0	3922.4	3988.2	3886.1	3781.7	3677.2	3618.2	3566.0
35°	3988.2	3976.9	4042.7	4126.7	4281.0	4355.9	4244.7	4124.4	3965.5	3870.2	3829.3
37.5°	4269.7	4274.2	4362.7	4496.7	4673.7	4789.5	4691.9	4494.4	4331.0	4208.4	4151.6
40°	4678.3	4687.3	4778.1	4930.2	5130.0	5254.8	5141.3	4941.6	4723.7	4628.3	4628.3
42.5°	5157.2	5195.8	5254.8	5386.5	5565.8	5704.3	5602.1	5445.5	5225.3	5102.7	5120.9
45°	5649.8	5667.9	5706.5	5901.7	5985.7	6053.8	5958.5	5885.8	5738.3	5588.5	5563.5
47.5°	6110.6	6117.4	6230.9	6292.2	6358.0	6301.2	6362.5	6267.2	6101.5	5956.2	5926.7
50°	6314.9	6303.5	6464.7	6650.8	6700.7	6600.9	6548.7	6485.1	6233.1	6058.4	5981.2
52.5°	5720.1	5786.0	6085.6	6603.1	6993.6	7077.5	6773.4	6480.6	6010.7	5670.2	5618.0
54°	5039.2	5100.5	5347.9	6115.1	6927.7	7211.5	6721.2	6099.2	5436.4	5032.4	4980.2
55°	4365.0	4296.9	4746.4	5529.5	6619.0	7093.4	6514.6	5606.7	4848.5	4478.5	4405.9
57.5°	2363.0	2374.3	2753.4	3493.4	4651.0	5438.7	4803.1	3793.0	2864.6	2449.2	2412.9
60°	749.1	767.2	932.9	1411.9	2222.2	2653.5	2274.4	1523.1	1053.2	844.4	810.4
62.5°	233.8	242.9	265.6	395.0	608.3	869.4	681.0	408.6	304.2	279.2	283.7
65°	143.0	143.0	145.3	154.4	181.6	211.1	204.3	179.3	172.5	168.0	165.7
67.5°	93.1	90.8	95.3	102.1	106.7	109.0	115.8	122.6	120.3	115.8	115.8
70°	56.7	54.5	59.0	68.1	70.4	74.9	81.7	90.8	88.5	84.0	86.3
72.5°	31.8	31.8	34.0	40.9	47.7	52.2	59.0	65.8	68.1	65.8	65.8
75°	11.3	13.6	18.2	25.0	29.5	36.3	43.1	49.9	56.7	52.2	49.9
77.5°	4.5	4.5	9.1	15.9	22.7	29.5	40.9	47.7	52.2	47.7	43.1
80°	2.3	2.3	6.8	13.6	20.4	27.2	34.0	40.9	43.1	38.6	34.0
82.5°	2.3	2.3	6.8	13.6	20.4	25.0	36.3	40.9	45.4	40.9	34.0
85°	0.0	2.3	6.8	13.6	18.2	20.4	20.4	13.6	11.3	6.8	6.8
87.5°	0.0	0.0	2.3	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)