

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: P528854

Luminaire Tested: **GALN-SA4A-727-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528854
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-727-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13257 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

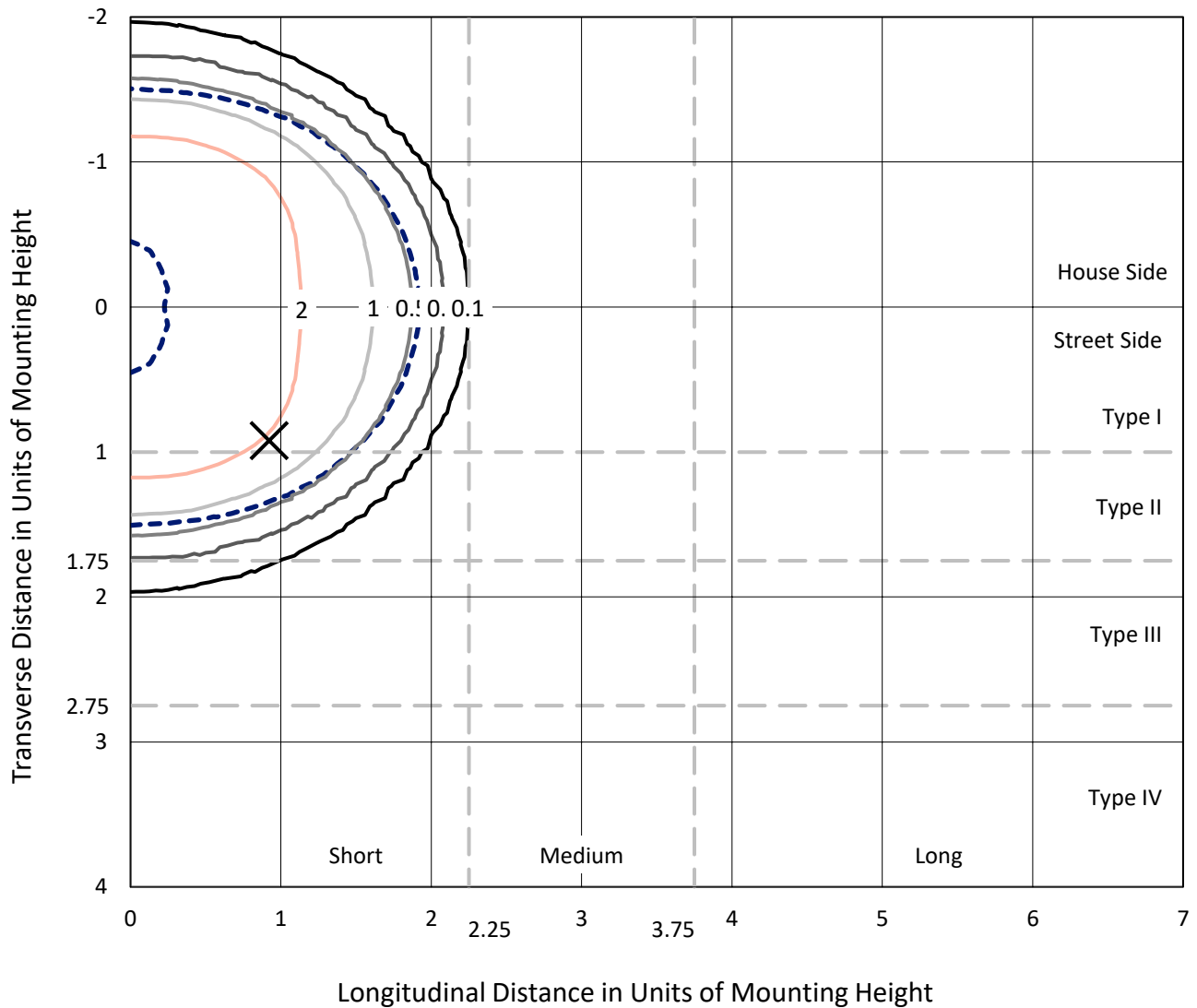
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

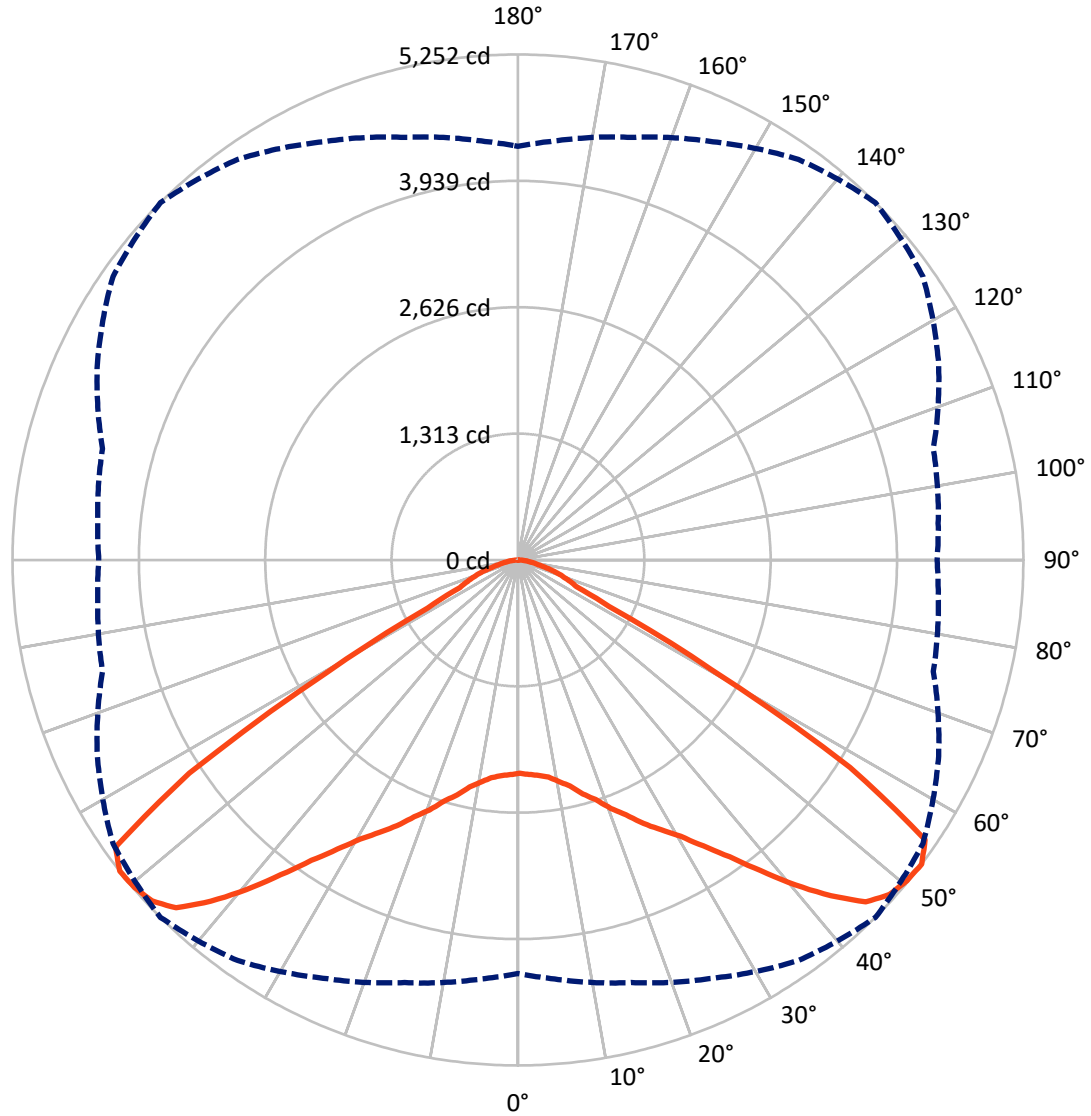
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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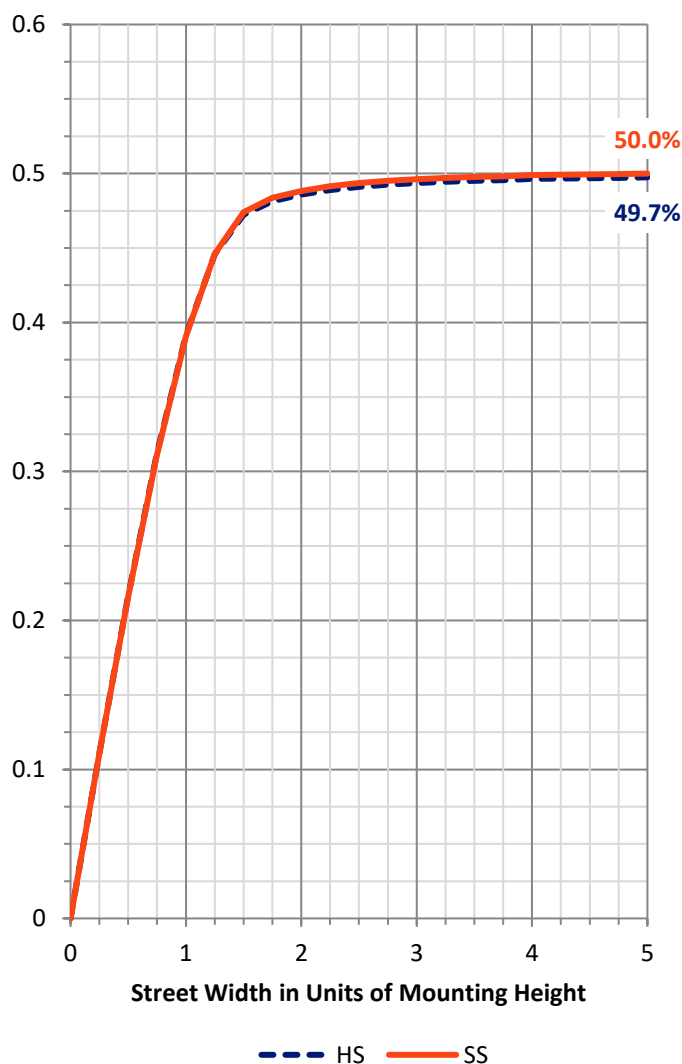
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6628.5	0.0	6628.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6628.5	0.0	6628.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13257.0	0.0	13257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.7	1.6
10°-20°	715.4	5.4
20°-30°	1362.1	10.3
30°-40°	2338.8	17.6
40°-50°	3594.8	27.1
50°-60°	3650.4	27.5
60°-70°	1017.3	7.7
70°-80°	300.1	2.3
80°-90°	60.5	0.5
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°	13257.0	100.0
0°-180°	13257.0	100.0

Coefficient of Utilization



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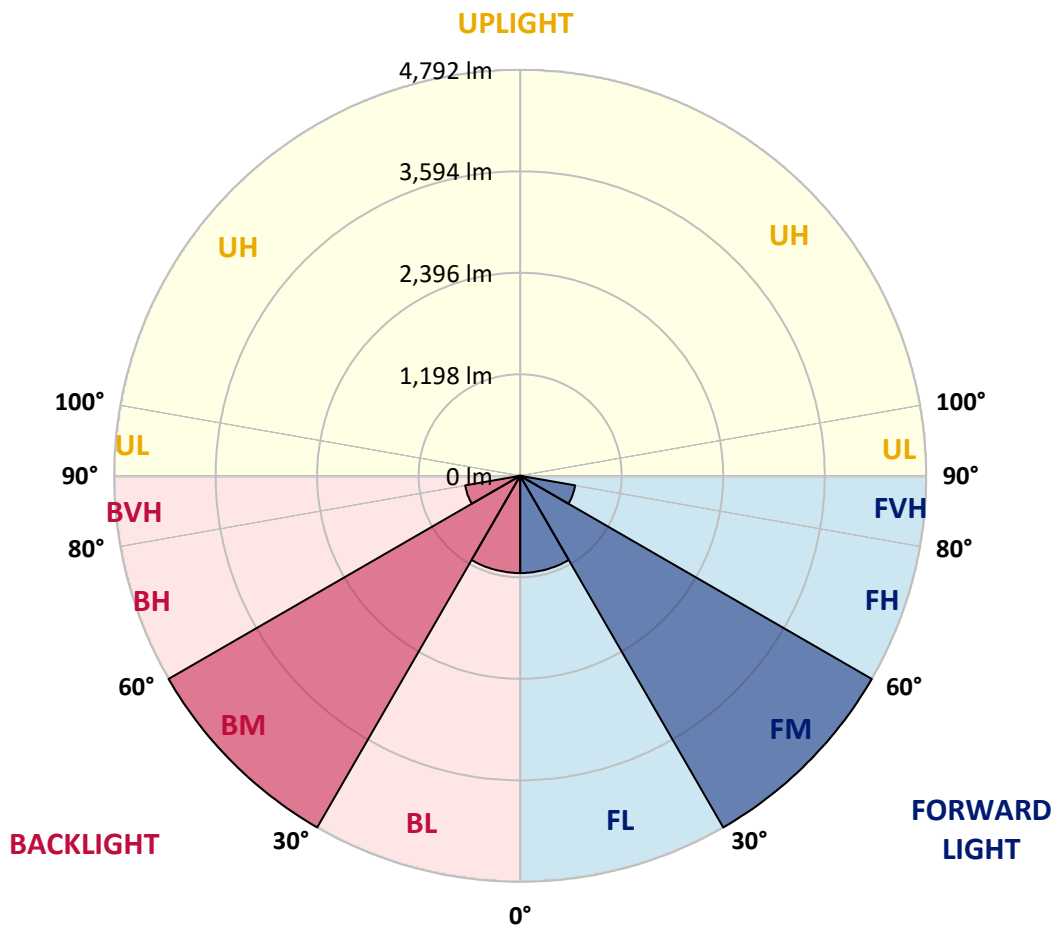
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.6	8.7			
FM (30°-60°)	4792.0	36.1			
FH (60°-80°)	658.7	5.0			G0/660
FVH (80°-90°)	30.2	0.2			G1/100
BL (0°-30°)	1147.6	8.7	B3/2500		
BM (30°-60°)	4792.0	36.1	B3/5000		
BH (60°-80°)	658.7	5.0	B2/1000		G0/660
BVH (80°-90°)	30.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2216.1	2216.1	2216.1	2216.1	2216.1	2216.1	2216.1	2216.1	2216.1	2216.1	2216.1
2.5°	2221.0	2198.0	2206.2	2211.1	2232.5	2230.9	2226.0	2232.5	2239.1	2240.8	2237.5
5°	2219.4	2202.9	2209.5	2214.4	2235.8	2247.3	2244.1	2272.0	2291.8	2286.8	2311.5
7.5°	2206.2	2216.1	2207.9	2232.5	2250.6	2278.6	2308.2	2334.5	2359.2	2387.2	2392.1
10°	2235.8	2235.8	2250.6	2270.4	2318.1	2339.5	2382.2	2420.1	2467.8	2500.7	2487.5
12.5°	2267.1	2272.0	2272.0	2323.0	2362.5	2410.2	2449.7	2500.7	2568.2	2607.6	2627.4
15°	2298.3	2301.6	2318.1	2387.2	2446.4	2522.1	2558.3	2604.3	2642.2	2716.2	2717.9
17.5°	2326.3	2344.4	2393.8	2471.1	2545.1	2617.5	2675.1	2722.8	2755.7	2785.3	2778.7
20°	2431.6	2444.8	2495.8	2573.1	2683.3	2754.1	2773.8	2782.0	2803.4	2862.6	2844.5
22.5°	2533.6	2538.5	2586.3	2704.7	2782.0	2875.8	2897.2	2892.3	2900.5	2915.3	2941.6
25°	2638.9	2647.1	2712.9	2813.3	2921.9	3033.7	3051.8	3014.0	3002.5	3018.9	3020.6
27.5°	2773.8	2775.4	2859.4	2946.6	3069.9	3175.2	3203.2	3173.6	3119.3	3132.5	3153.8
30°	2944.9	2933.4	3017.3	3142.3	3272.3	3331.5	3379.2	3364.4	3305.2	3293.7	3275.6
32.5°	3142.3	3145.6	3221.3	3357.8	3443.4	3542.1	3593.1	3568.4	3530.6	3510.9	3522.4
35°	3420.4	3435.2	3486.2	3599.7	3737.9	3787.2	3867.9	3815.2	3716.5	3741.2	3762.6
37.5°	3649.1	3691.8	3787.2	3922.2	4004.4	4094.9	4124.5	4053.8	3981.4	3951.8	4022.5
40°	3999.5	3986.3	4091.6	4226.5	4348.3	4438.7	4400.9	4330.2	4150.8	4152.5	4172.2
42.5°	4300.5	4307.1	4387.7	4549.0	4715.1	4771.1	4651.0	4478.2	4279.2	4257.8	4300.5
45°	4553.9	4580.2	4626.3	4841.8	5004.7	5065.6	4843.5	4639.5	4372.9	4284.1	4354.8
47.5°	4644.4	4687.2	4787.5	4985.0	5146.2	5195.5	5017.9	4725.0	4460.1	4315.4	4353.2
50°	4657.6	4642.7	4807.3	4988.2	5129.7	5236.7	5080.4	4787.5	4438.7	4363.1	4351.5
52.5°	4297.3	4369.6	4545.7	4794.1	5080.4	5251.5	5136.3	4822.1	4468.4	4382.8	4354.8
55°	3477.9	3392.4	3713.2	4131.1	4657.6	5133.0	5116.6	4840.2	4486.5	4415.7	4377.9
57.5°	1941.3	1966.0	2147.0	2601.1	3280.5	4070.2	4549.0	4649.3	4478.2	4437.1	4456.8
60°	898.3	906.5	983.8	1196.1	1617.2	2308.2	2938.3	3578.3	3872.8	3932.0	3932.0
62.5°	669.6	666.3	686.0	723.9	812.7	1061.2	1416.5	1924.9	2329.6	2612.6	2686.6
65°	605.4	603.8	613.7	626.8	633.4	668.0	746.9	903.2	1034.8	1110.5	1097.3
67.5°	529.8	528.1	531.4	539.6	551.1	569.2	589.0	621.9	668.0	664.7	656.4
70°	427.8	427.8	432.7	439.3	452.4	473.8	496.8	519.9	559.4	567.6	565.9
72.5°	315.9	310.9	320.8	334.0	347.1	373.5	398.1	419.5	447.5	455.7	452.4
75°	200.7	204.0	210.6	225.4	248.4	266.5	292.8	310.9	329.0	335.6	337.3
77.5°	111.9	115.2	126.7	144.8	167.8	187.6	210.6	225.4	236.9	238.6	240.2
80°	67.5	69.1	80.6	97.1	116.8	138.2	156.3	171.1	181.0	176.0	174.4
82.5°	41.1	42.8	52.6	67.5	83.9	100.4	120.1	133.3	143.1	136.6	130.0
85°	21.4	23.0	31.3	41.1	54.3	62.5	62.5	55.9	54.3	51.0	49.4
87.5°	6.6	6.6	8.2	9.9	8.2	9.9	11.5	13.2	13.2	14.8	13.2
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)