

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: P453091

Luminaire Tested: **GALN-SA4A-760-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-760-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18880 lumens
Efficiency: N/A
Efficacy: 156.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

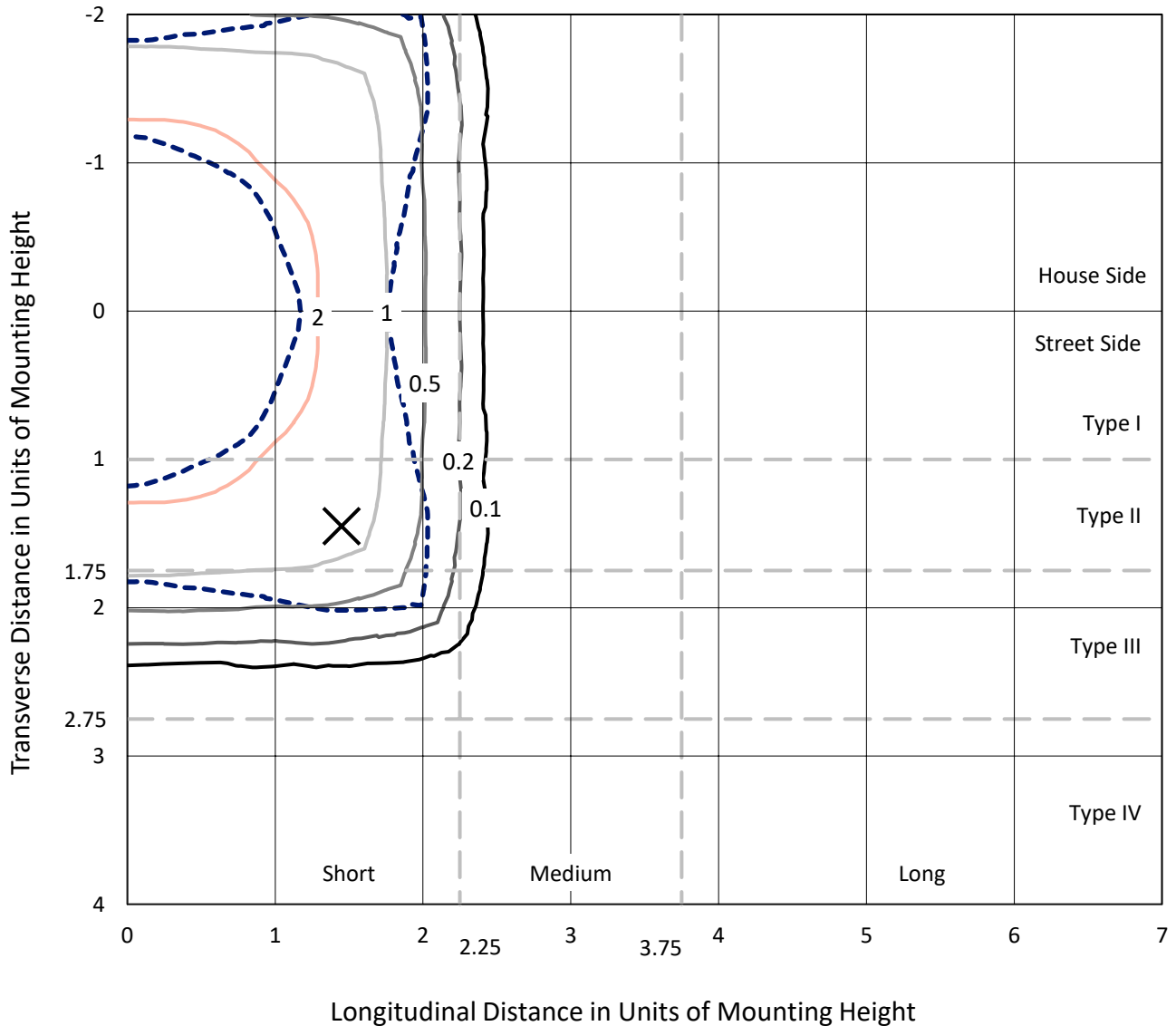
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

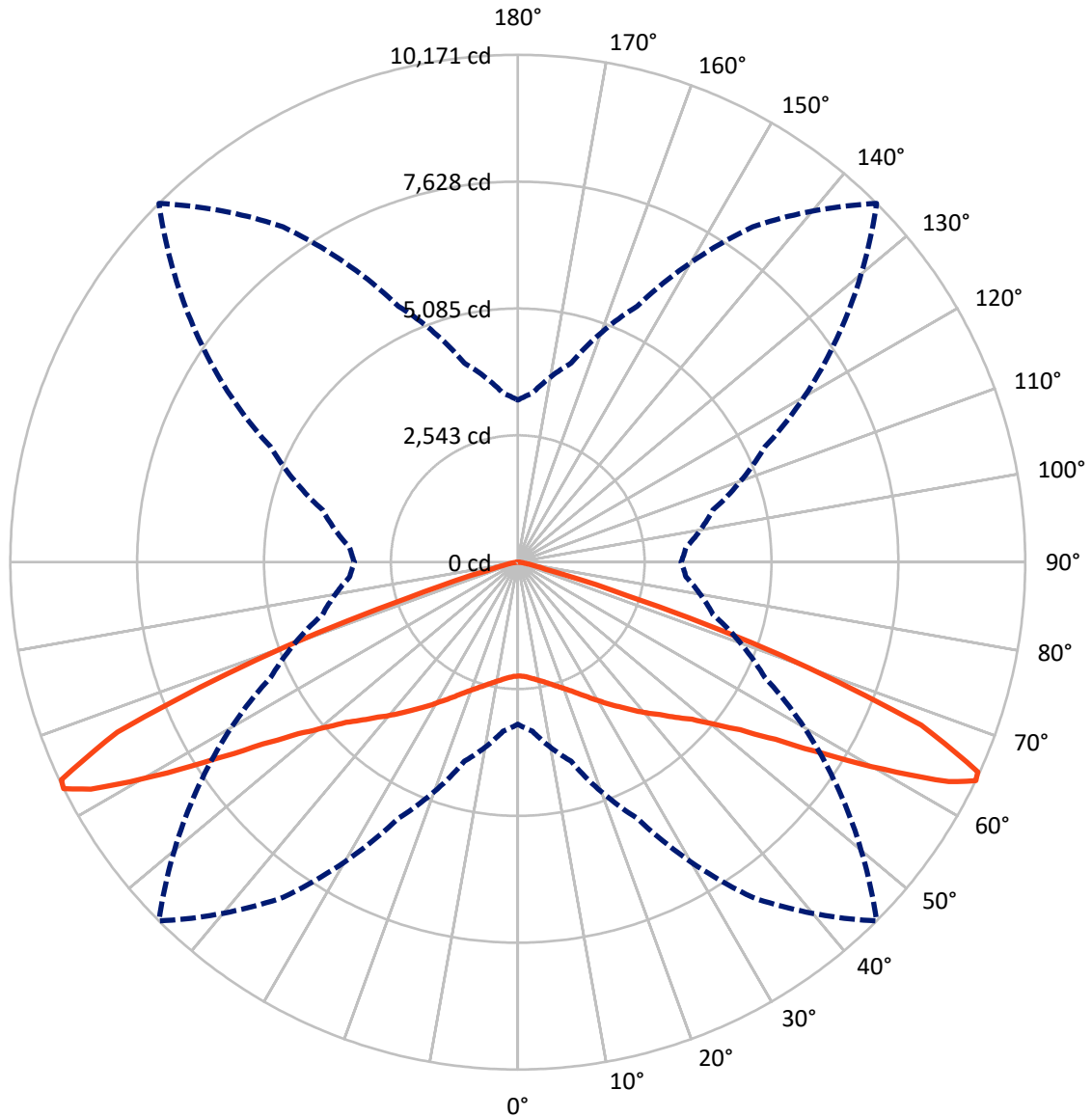
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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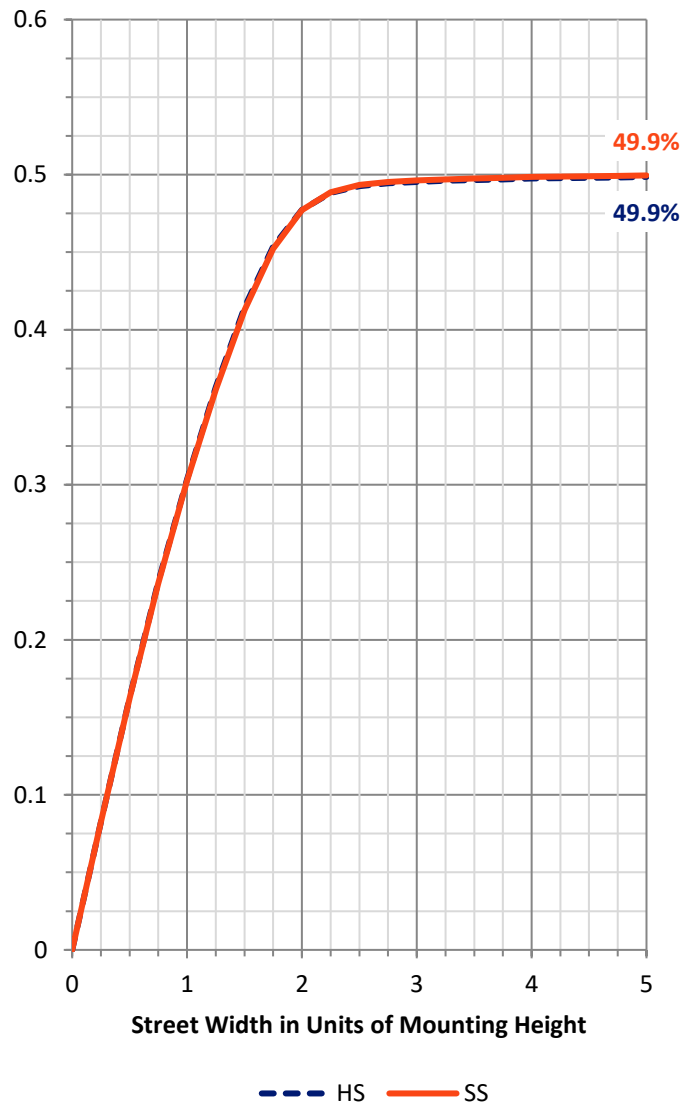
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9440.0	0.0	9440.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9440.0	0.0	9440.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18880.0	0.0	18880.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	1.2
10°-20°	723.2	3.8
20°-30°	1366.6	7.2
30°-40°	2263.1	12.0
40°-50°	3533.1	18.7
50°-60°	5462.2	28.9
60°-70°	4710.0	24.9
70°-80°	533.8	2.8
80°-90°	63.9	0.3
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°	18880.0	100.0
0°-180°	18880.0	100.0



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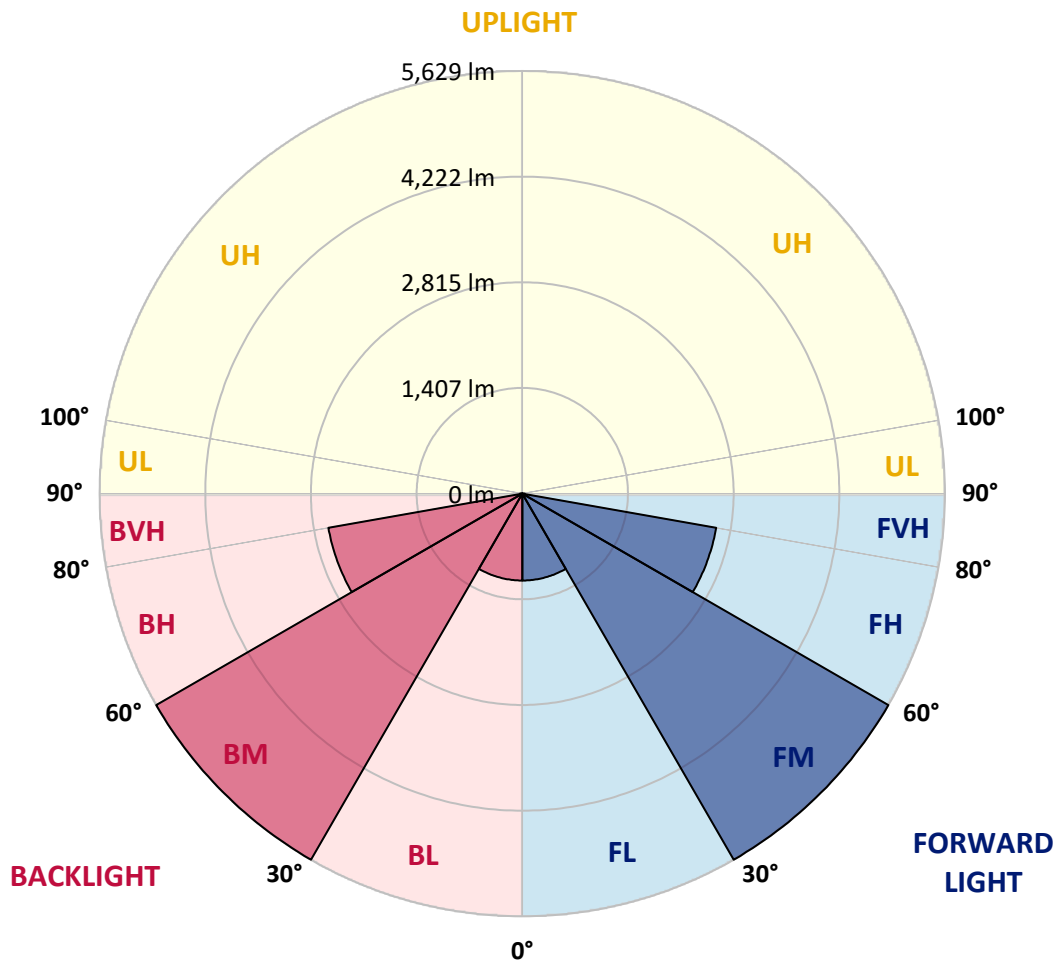
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1157.0	6.1			
FM (30°-60°)	5629.2	29.8			
FH (60°-80°)	2621.9	13.9			G2/5000
FVH (80°-90°)	32.0	0.2			G1/100
BL (0°-30°)	1157.0	6.1	B3/2500		
BM (30°-60°)	5629.2	29.8	B4/8500		
BH (60°-80°)	2621.9	13.9	B4/5000		G2/5000
BVH (80°-90°)	32.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2282.0	2282.0	2282.0	2282.0	2282.0	2282.0	2282.0	2282.0	2282.0	2282.0	2282.0
2.5°	2291.0	2296.0	2292.0	2291.0	2290.0	2290.0	2290.0	2291.0	2295.0	2298.0	2296.0
5°	2320.0	2324.0	2322.0	2321.0	2320.0	2321.0	2319.0	2318.0	2321.0	2321.0	2320.0
7.5°	2356.0	2361.0	2359.0	2361.0	2362.0	2363.0	2358.0	2354.0	2353.0	2356.0	2354.0
10°	2405.0	2409.0	2410.0	2411.0	2413.0	2412.0	2406.0	2399.0	2398.0	2397.0	2396.0
12.5°	2460.0	2463.0	2464.0	2468.0	2471.0	2472.0	2465.0	2459.0	2449.0	2451.0	2447.0
15°	2522.0	2528.0	2527.0	2533.0	2541.0	2543.0	2536.0	2526.0	2517.0	2512.0	2509.0
17.5°	2598.0	2602.0	2600.0	2606.0	2616.0	2621.0	2615.0	2602.0	2593.0	2582.0	2576.0
20°	2688.0	2695.0	2697.0	2697.0	2706.0	2711.0	2702.0	2698.0	2684.0	2676.0	2671.0
22.5°	2790.0	2793.0	2799.0	2805.0	2814.0	2812.0	2809.0	2803.0	2790.0	2783.0	2775.0
25°	2905.0	2908.0	2923.0	2936.0	2939.0	2937.0	2933.0	2930.0	2918.0	2902.0	2896.0
27.5°	3039.0	3045.0	3065.0	3077.0	3077.0	3078.0	3070.0	3080.0	3054.0	3035.0	3033.0
30°	3207.0	3211.0	3228.0	3240.0	3234.0	3229.0	3227.0	3237.0	3209.0	3175.0	3167.0
32.5°	3372.9	3386.9	3401.9	3427.9	3406.9	3397.9	3395.9	3402.9	3370.9	3332.9	3321.9
35°	3550.9	3560.9	3588.9	3610.9	3591.9	3570.9	3579.9	3601.9	3563.9	3512.9	3510.9
37.5°	3747.9	3756.9	3792.9	3815.9	3801.9	3765.9	3780.9	3806.9	3768.9	3705.9	3692.9
40°	3952.9	3971.9	4016.9	4040.9	4017.9	3969.9	3997.9	4025.9	3991.9	3918.9	3889.9
42.5°	4182.9	4212.9	4277.9	4289.9	4245.9	4180.9	4229.9	4274.9	4250.9	4166.9	4155.9
45°	4451.9	4469.9	4549.9	4575.9	4514.9	4433.9	4494.9	4576.9	4558.9	4461.9	4440.9
47.5°	4752.9	4769.9	4852.9	4891.9	4814.9	4705.9	4815.9	4922.9	4911.9	4807.9	4797.9
50°	5108.9	5112.9	5227.9	5271.9	5194.9	5100.9	5198.9	5331.9	5287.9	5154.9	5152.9
52.5°	5498.9	5503.9	5648.9	5733.9	5690.9	5584.9	5700.9	5781.9	5669.9	5495.9	5482.9
55°	5836.9	5861.9	6059.9	6285.9	6344.9	6267.9	6302.9	6264.9	5988.9	5744.9	5706.9
57.5°	5974.9	6023.9	6324.9	6746.9	7130.9	7244.9	6974.9	6612.9	6115.9	5770.9	5733.9
60°	5637.9	5690.9	6157.9	6958.9	7938.9	8433.9	7674.9	6671.9	5826.9	5341.9	5283.9
62.5°	4514.9	4529.9	5216.9	6459.9	8409.9	9691.9	7969.9	6168.9	4985.9	4326.9	4303.9
64°	3249.0	3402.9	4130.9	5663.9	8203.9	10170.8	7799.9	5463.9	4049.9	3382.9	3275.0
65°	2430.0	2472.0	3329.9	4836.9	7840.9	10134.8	7469.9	4789.9	3353.9	2589.0	2469.0
67.5°	918.0	923.0	1229.0	2411.0	5581.9	8719.9	5700.9	2606.0	1413.0	1022.0	985.0
70°	381.0	388.0	451.0	811.0	2399.0	5598.9	2749.0	940.0	517.0	419.0	413.0
72.5°	279.0	283.0	302.0	360.0	738.0	2299.0	904.0	399.0	303.0	271.0	268.0
75°	219.0	221.0	235.0	265.0	344.0	637.0	376.0	274.0	231.0	208.0	206.0
77.5°	167.0	172.0	182.0	202.0	231.0	302.0	249.0	205.0	178.0	159.0	156.0
80°	115.0	121.0	140.0	148.0	155.0	196.0	170.0	155.0	139.0	116.0	109.0
82.5°	71.0	75.0	94.0	101.0	98.0	110.0	109.0	111.0	99.0	72.0	67.0
85°	37.0	39.0	51.0	53.0	49.0	45.0	56.0	65.0	61.0	41.0	40.0
87.5°	8.0	9.0	11.0	10.0	11.0	11.0	14.0	21.0	22.0	14.0	13.0
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)