

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: P453004

Luminaire Tested: **GALN-SA4A-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453004
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-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 17194 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

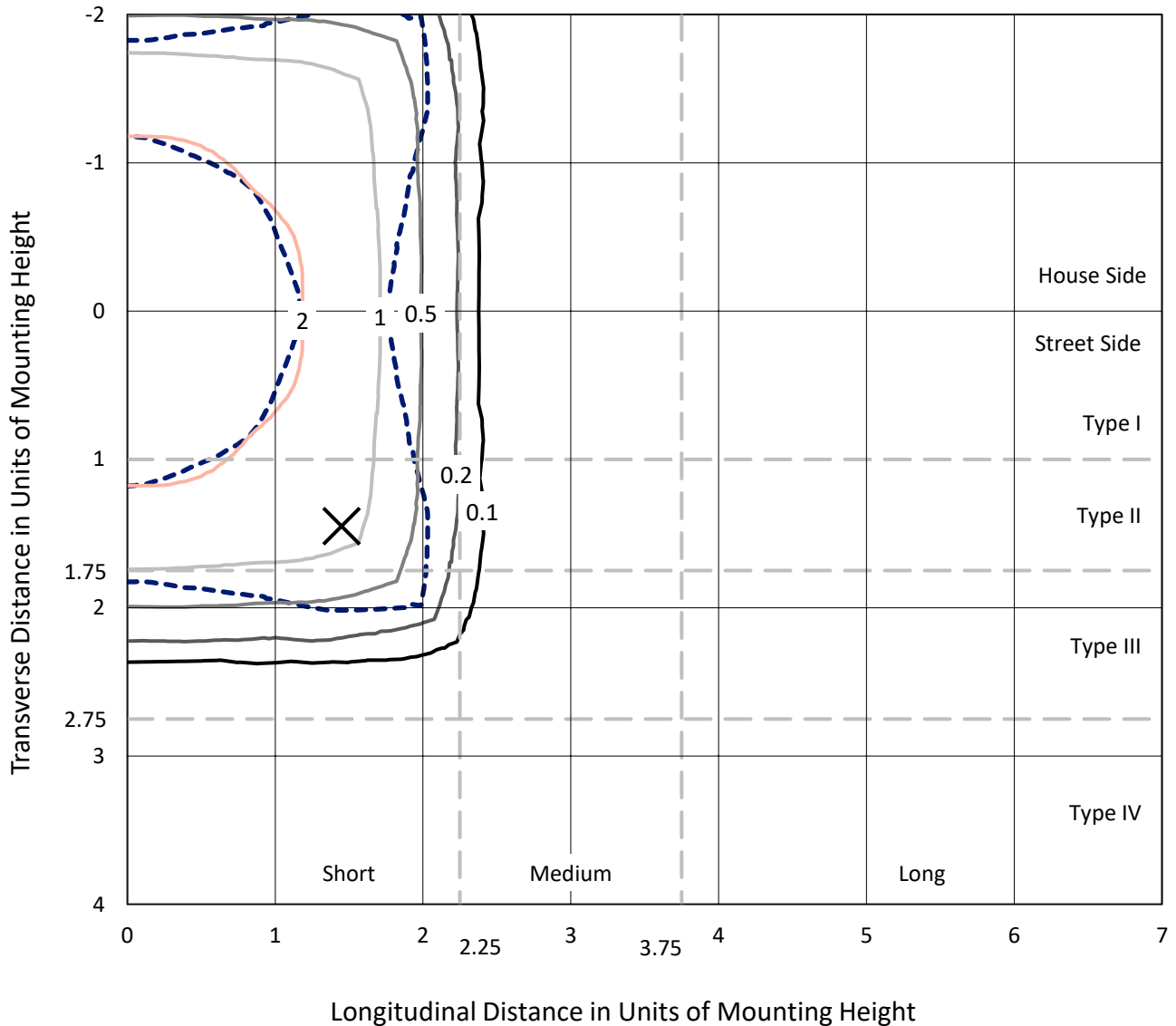
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

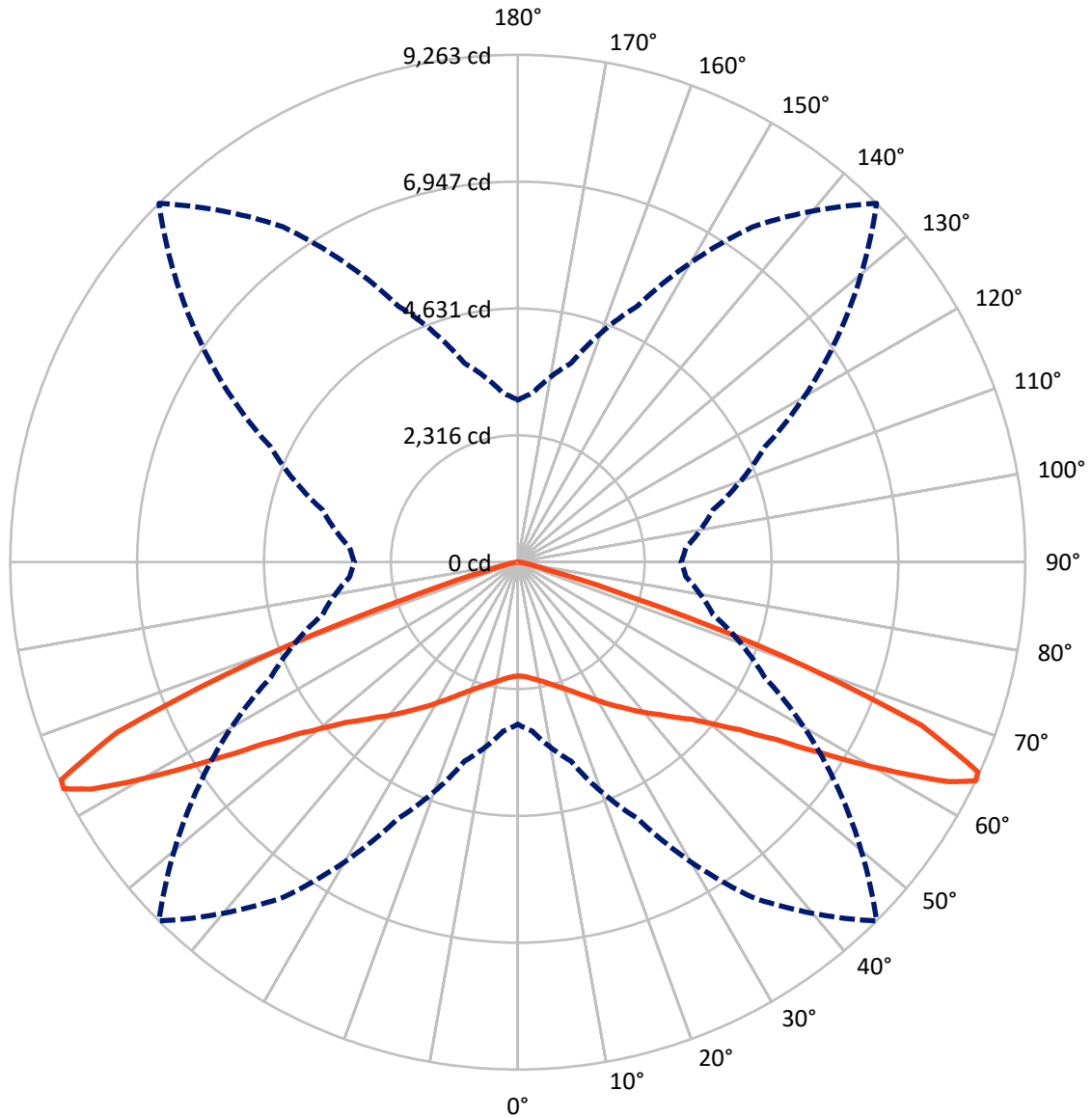
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 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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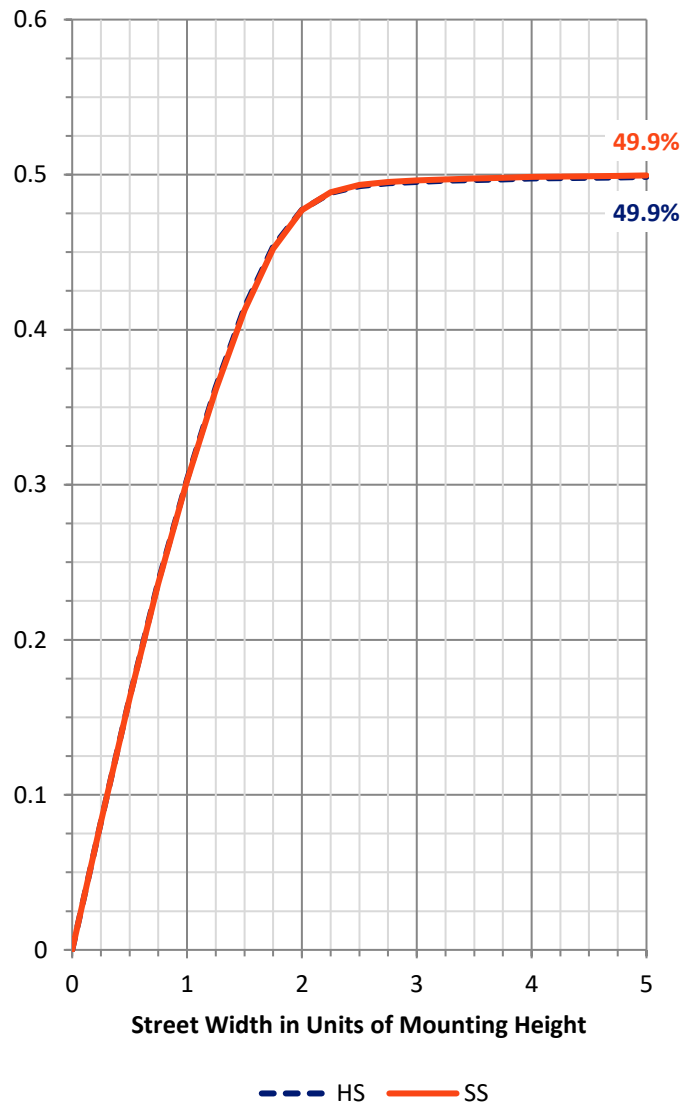
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8597.0	0.0	8597.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8597.0	0.0	8597.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17194.0	0.0	17194.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.2	1.2
10°-20°	658.6	3.8
20°-30°	1244.5	7.2
30°-40°	2061.1	12.0
40°-50°	3217.6	18.7
50°-60°	4974.4	28.9
60°-70°	4289.3	24.9
70°-80°	486.1	2.8
80°-90°	58.2	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°	17194.0	100.0
0°-180°	17194.0	100.0



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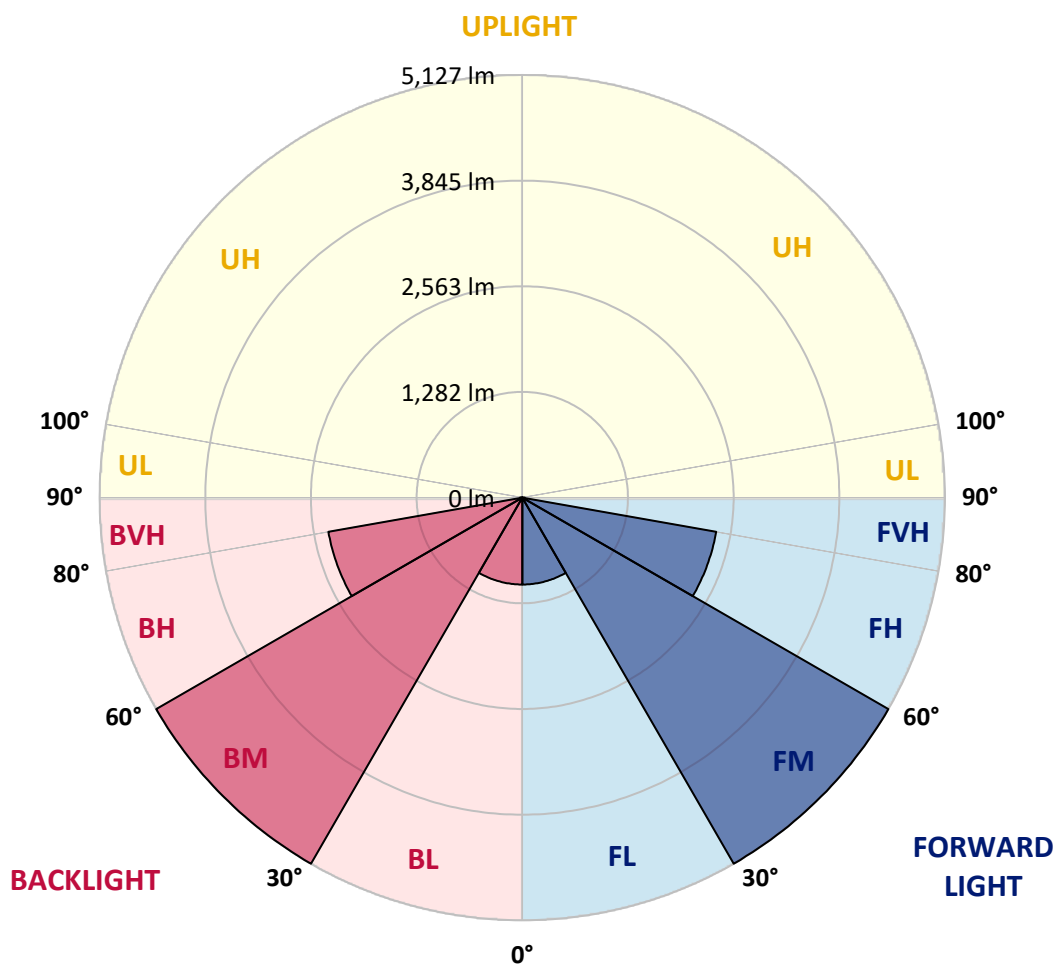
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1053.6	6.1			
FM	(30°-60°)	5126.5	29.8			
FH	(60°-80°)	2387.7	13.9			G2/5000
FVH	(80°-90°)	29.1	0.2			G1/100
BL	(0°-30°)	1053.6	6.1	B3/2500		
BM	(30°-60°)	5126.5	29.8	B4/8500		
BH	(60°-80°)	2387.7	13.9	B3/2500		G2/5000
BVH	(80°-90°)	29.1	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°	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2	2078.2
2.5°	2086.4	2090.9	2087.3	2086.4	2085.5	2085.5	2085.5	2086.4	2090.0	2092.8	2090.9
5°	2112.8	2116.4	2114.6	2113.7	2112.8	2113.7	2111.9	2111.0	2113.7	2113.7	2112.8
7.5°	2145.6	2150.1	2148.3	2150.1	2151.0	2151.9	2147.4	2143.8	2142.8	2145.6	2143.8
10°	2190.2	2193.8	2194.8	2195.7	2197.5	2196.6	2191.1	2184.7	2183.8	2182.9	2182.0
12.5°	2240.3	2243.0	2243.9	2247.6	2250.3	2251.2	2244.8	2239.4	2230.3	2232.1	2228.4
15°	2296.7	2302.2	2301.3	2306.8	2314.1	2315.9	2309.5	2300.4	2292.2	2287.6	2284.9
17.5°	2366.0	2369.6	2367.8	2373.2	2382.4	2386.9	2381.4	2369.6	2361.4	2351.4	2345.9
20°	2447.9	2454.3	2456.1	2456.1	2464.3	2468.9	2460.7	2457.0	2444.3	2437.0	2432.4
22.5°	2540.8	2543.5	2549.0	2554.5	2562.7	2560.8	2558.1	2552.7	2540.8	2534.4	2527.2
25°	2645.5	2648.3	2661.9	2673.8	2676.5	2674.7	2671.0	2668.3	2657.4	2642.8	2637.3
27.5°	2767.6	2773.0	2791.3	2802.2	2802.2	2803.1	2795.8	2804.9	2781.2	2763.9	2762.1
30°	2920.6	2924.2	2939.7	2950.6	2945.2	2940.6	2938.8	2947.9	2922.4	2891.4	2884.1
32.5°	3071.7	3084.5	3098.2	3121.8	3102.7	3094.5	3092.7	3099.1	3069.9	3035.3	3025.3
35°	3233.8	3243.0	3268.4	3288.5	3271.2	3252.1	3260.3	3280.3	3245.7	3199.2	3197.4
37.5°	3413.2	3421.4	3454.2	3475.2	3462.4	3429.6	3443.3	3467.0	3432.4	3375.0	3363.2
40°	3599.9	3617.2	3658.2	3680.1	3659.1	3615.4	3640.9	3666.4	3635.5	3569.0	3542.6
42.5°	3809.4	3836.7	3895.9	3906.8	3866.8	3807.6	3852.2	3893.2	3871.3	3794.8	3784.8
45°	4054.4	4070.8	4143.6	4167.3	4111.7	4038.0	4093.5	4168.2	4151.8	4063.5	4044.4
47.5°	4328.5	4344.0	4419.6	4455.1	4385.0	4285.7	4385.9	4483.3	4473.3	4378.6	4369.5
50°	4652.7	4656.3	4761.1	4801.1	4731.0	4645.4	4734.7	4855.8	4815.7	4694.6	4692.8
52.5°	5007.9	5012.4	5144.5	5221.9	5182.7	5086.2	5191.8	5265.6	5163.6	5005.1	4993.3
55°	5315.7	5338.4	5518.8	5724.6	5778.3	5708.2	5740.0	5705.4	5454.1	5231.9	5197.3
57.5°	5441.3	5486.0	5760.1	6144.4	6494.1	6597.9	6352.0	6022.4	5569.8	5255.6	5221.9
60°	5134.4	5182.7	5608.0	6337.5	7229.9	7680.7	6989.5	6076.1	5306.6	4864.9	4812.1
62.5°	4111.7	4125.4	4751.0	5883.0	7658.9	8826.4	7258.2	5618.0	4540.7	3940.5	3919.6
64°	2958.8	3099.1	3762.0	5158.1	7471.3	9262.6	7103.3	4976.0	3688.3	3080.8	2982.5
65°	2213.0	2251.2	3032.6	4405.0	7140.7	9229.8	6802.8	4362.2	3054.4	2357.8	2248.5
67.5°	836.0	840.6	1119.2	2195.7	5083.4	7941.2	5191.8	2373.2	1286.8	930.7	897.0
70°	347.0	353.3	410.7	738.6	2184.7	5098.9	2503.5	856.0	470.8	381.6	376.1
72.5°	254.1	257.7	275.0	327.8	672.1	2093.7	823.3	363.4	275.9	246.8	244.1
75°	199.4	201.3	214.0	241.3	313.3	580.1	342.4	249.5	210.4	189.4	187.6
77.5°	152.1	156.6	165.7	184.0	210.4	275.0	226.8	186.7	162.1	144.8	142.1
80°	104.7	110.2	127.5	134.8	141.2	178.5	154.8	141.2	126.6	105.6	99.3
82.5°	64.7	68.3	85.6	92.0	89.2	100.2	99.3	101.1	90.2	65.6	61.0
85°	33.7	35.5	46.4	48.3	44.6	41.0	51.0	59.2	55.6	37.3	36.4
87.5°	7.3	8.2	10.0	9.1	10.0	10.0	12.7	19.1	20.0	12.7	11.8
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)