

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: P651832

Luminaire Tested: **GALN-SA4A-840-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651832
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-840-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 13331.5 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

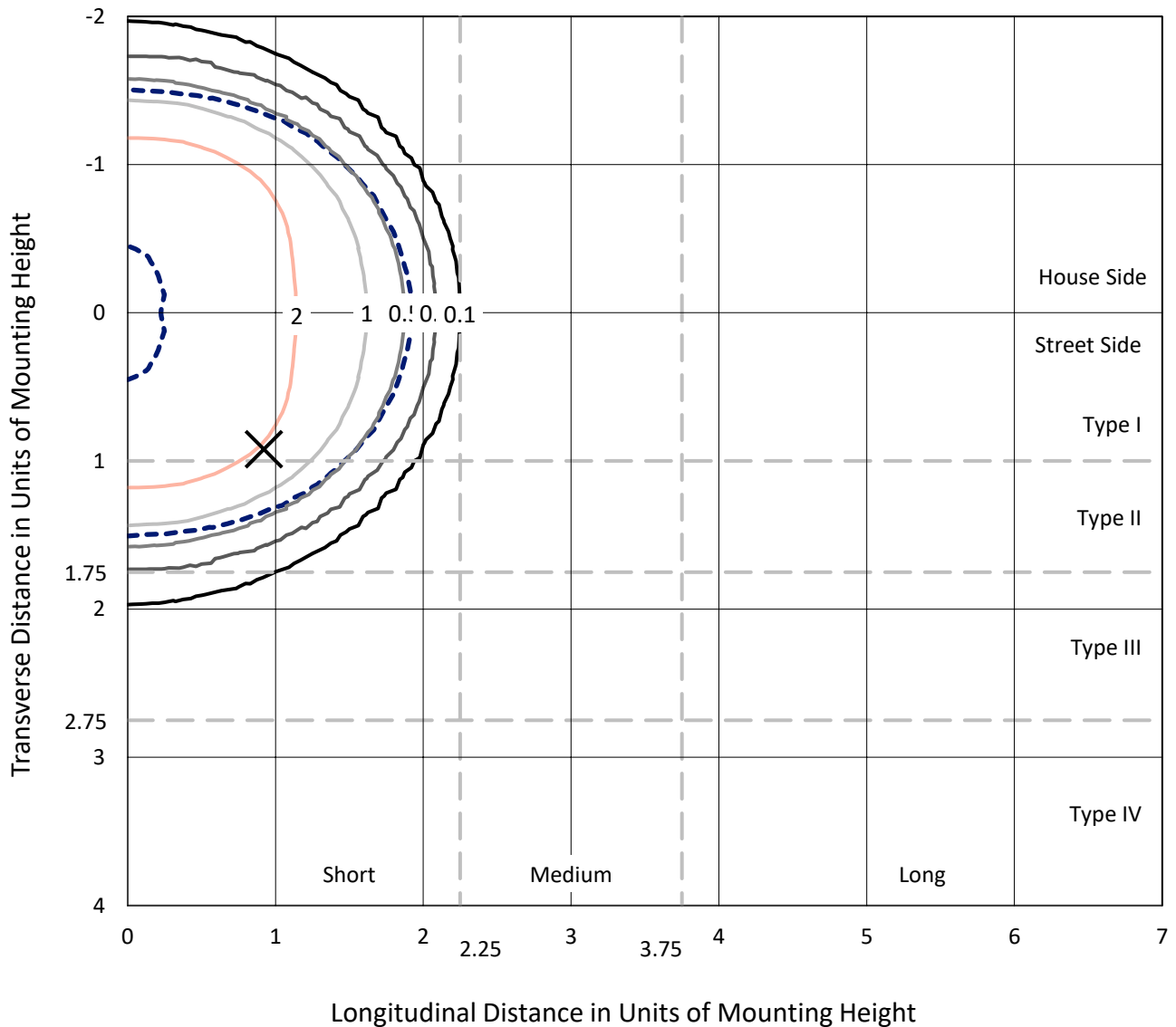
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

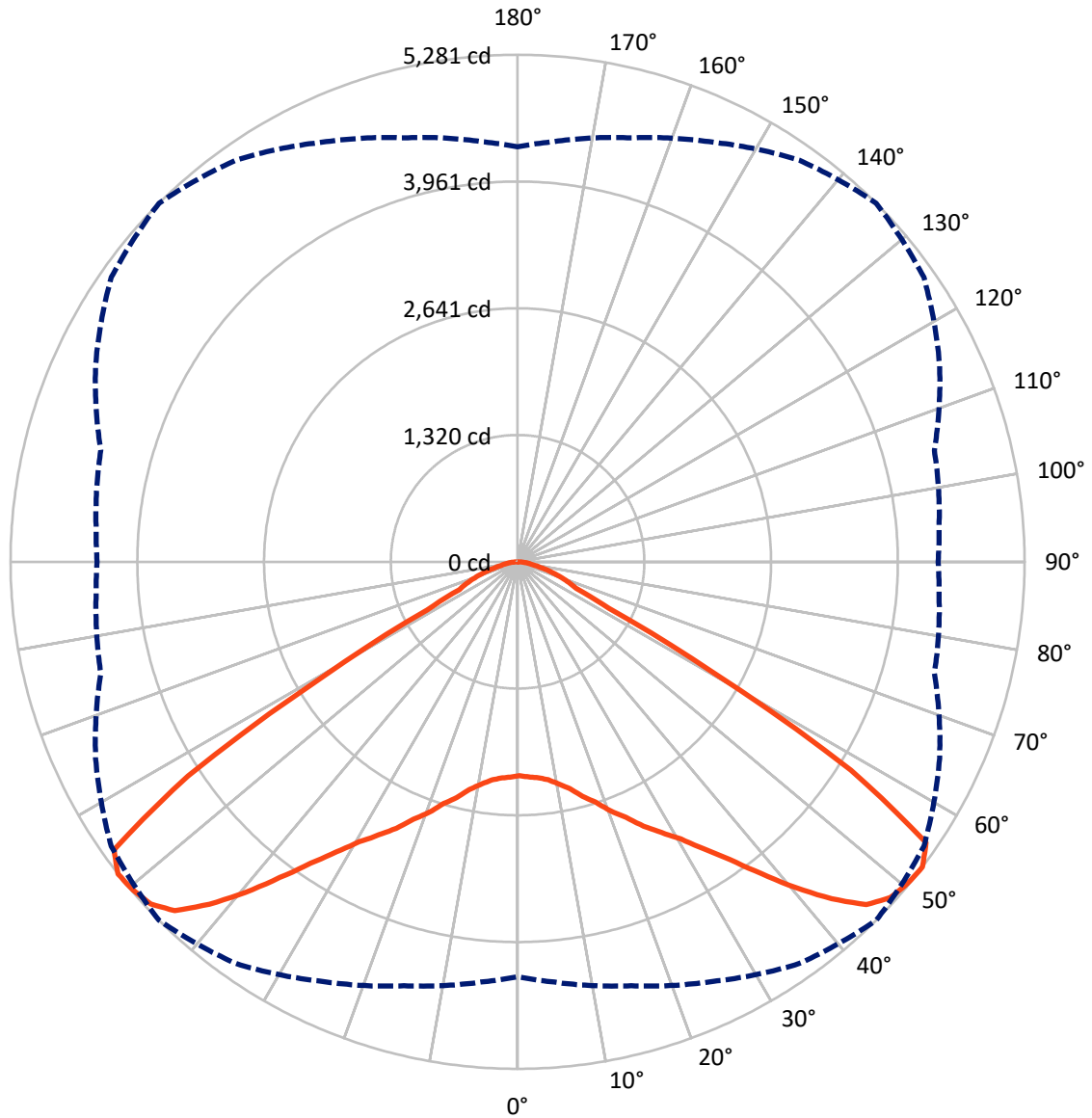
✕ Max cd
 - - - 1/2 Max cd



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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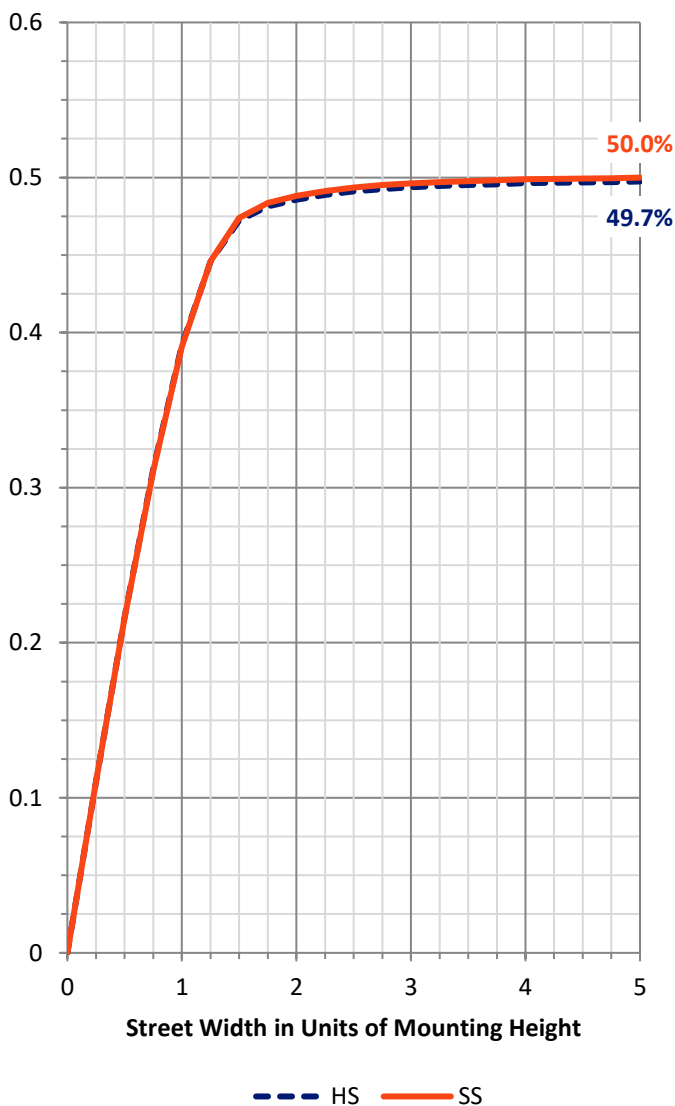
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6665.8	0.0	6665.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6665.8	0.0	6665.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	13331.5	0.0	13331.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	1.6
10°-20°	719.4	5.4
20°-30°	1369.7	10.3
30°-40°	2351.9	17.6
40°-50°	3615.0	27.1
50°-60°	3670.9	27.5
60°-70°	1023.0	7.7
70°-80°	301.8	2.3
80°-90°	60.8	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°	13331.5	100.0
0°-180°	13331.5	100.0

Coefficient of Utilization

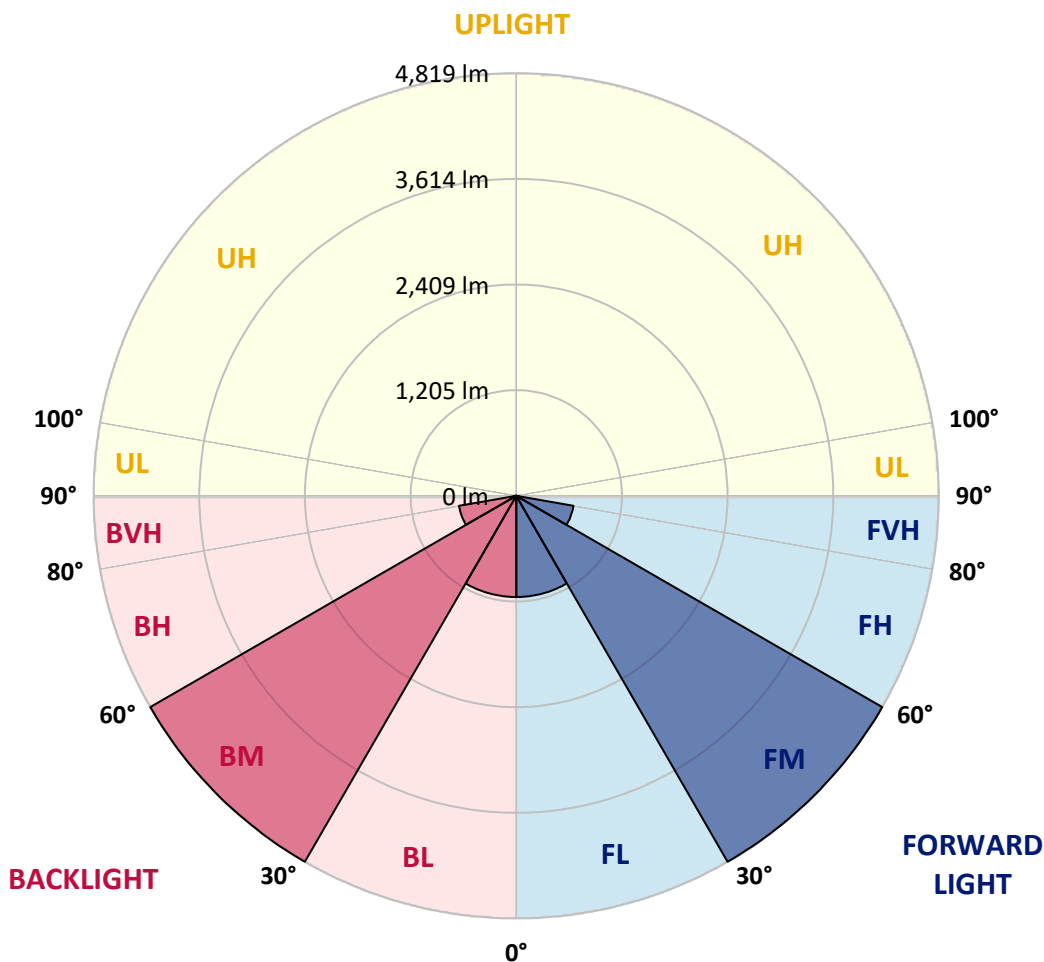


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.1	8.7			
FM (30°-60°)	4818.9	36.1			
FH (60°-80°)	662.4	5.0			G1/1800
FVH (80°-90°)	30.4	0.2			G1/100
BL (0°-30°)	1154.1	8.7	B3/2500		
BM (30°-60°)	4818.9	36.1	B3/5000		
BH (60°-80°)	662.4	5.0	B2/1000		G1/1800
BVH (80°-90°)	30.4	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°	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6	2228.6
2.5°	2233.5	2210.3	2218.6	2223.6	2245.0	2243.5	2238.5	2245.0	2251.7	2253.4	2250.0
5°	2231.8	2215.3	2221.9	2226.9	2248.4	2259.9	2256.7	2284.8	2304.7	2299.7	2324.5
7.5°	2218.6	2228.6	2220.2	2245.0	2263.3	2291.4	2321.2	2347.7	2372.5	2400.6	2405.6
10°	2248.4	2248.4	2263.3	2283.1	2331.1	2352.6	2395.7	2433.7	2481.7	2514.8	2501.6
12.5°	2279.9	2284.8	2284.8	2336.0	2375.8	2423.8	2463.5	2514.8	2582.6	2622.3	2642.2
15°	2311.2	2314.6	2331.1	2400.6	2460.2	2536.3	2572.7	2619.0	2657.1	2731.5	2733.2
17.5°	2339.4	2357.6	2407.2	2485.0	2559.4	2632.2	2690.1	2738.1	2771.2	2801.0	2794.4
20°	2445.3	2458.5	2509.8	2587.6	2698.4	2769.6	2789.4	2797.7	2819.2	2878.7	2860.6
22.5°	2547.8	2552.8	2600.8	2719.9	2797.7	2891.9	2913.5	2908.5	2916.8	2931.6	2958.1
25°	2653.8	2662.0	2728.2	2829.1	2938.3	3050.8	3069.0	3031.0	3019.4	3035.9	3037.6
27.5°	2789.4	2791.0	2875.5	2963.1	3087.2	3193.1	3221.2	3191.4	3136.8	3150.0	3171.6
30°	2961.5	2949.9	3034.2	3160.0	3290.7	3350.3	3398.2	3383.3	3323.8	3312.2	3294.0
32.5°	3160.0	3163.3	3239.4	3376.7	3462.7	3562.1	3613.3	3588.5	3550.4	3530.6	3542.2
35°	3439.6	3454.5	3505.8	3619.9	3758.9	3808.6	3889.6	3836.6	3737.4	3762.2	3783.7
37.5°	3669.5	3712.6	3808.6	3944.2	4027.0	4118.0	4147.7	4076.6	4003.7	3974.0	4045.1
40°	4022.0	4008.7	4114.6	4250.2	4372.7	4463.7	4425.7	4354.5	4174.1	4175.8	4195.7
42.5°	4324.8	4331.3	4412.4	4574.5	4741.6	4797.9	4677.1	4503.4	4303.2	4281.7	4324.8
45°	4579.5	4606.0	4652.3	4869.1	5032.8	5094.0	4870.7	4665.5	4397.5	4308.2	4379.3
47.5°	4670.5	4713.6	4814.5	5012.9	5175.1	5224.7	5046.1	4751.6	4485.2	4339.6	4377.7
50°	4683.8	4668.8	4834.3	5016.3	5158.6	5266.1	5108.9	4814.5	4463.7	4387.6	4376.0
52.5°	4321.4	4394.2	4571.3	4821.0	5108.9	5281.0	5165.2	4849.2	4493.5	4407.4	4379.3
55°	3497.5	3411.4	3734.1	4154.3	4683.8	5161.9	5145.3	4867.4	4511.7	4440.6	4402.5
57.5°	1952.2	1977.1	2159.0	2615.7	3299.0	4093.1	4574.5	4675.5	4503.4	4462.0	4481.9
60°	903.3	911.6	989.4	1202.8	1626.3	2321.2	2954.9	3598.4	3894.6	3954.1	3954.1
62.5°	673.4	670.0	689.9	728.0	817.3	1067.1	1424.5	1935.7	2342.7	2627.3	2701.7
65°	608.8	607.2	617.1	630.3	637.0	671.7	751.1	908.3	1040.7	1116.8	1103.5
67.5°	532.8	531.1	534.4	542.7	554.2	572.5	592.3	625.4	671.7	668.4	660.1
70°	430.2	430.2	435.1	441.8	455.0	476.5	499.6	522.8	562.5	570.8	569.1
72.5°	317.6	312.7	322.6	335.8	349.1	375.6	400.4	421.8	450.0	458.3	455.0
75°	201.8	205.1	211.8	226.6	249.9	268.0	294.5	312.7	330.8	337.5	339.2
77.5°	112.5	115.8	127.4	145.6	168.8	188.6	211.8	226.6	238.3	239.9	241.5
80°	67.9	69.5	81.1	97.6	117.5	138.9	157.2	172.1	182.0	177.0	175.3
82.5°	41.4	43.0	53.0	67.9	84.4	100.9	120.8	134.0	143.9	137.3	130.7
85°	21.5	23.1	31.5	41.4	54.6	62.9	62.9	56.3	54.6	51.3	49.6
87.5°	6.6	6.6	8.2	9.9	8.2	9.9	11.6	13.2	13.2	14.9	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)