

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: P651822

Luminaire Tested: **GALN-SA4A-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651822
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13704.1 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

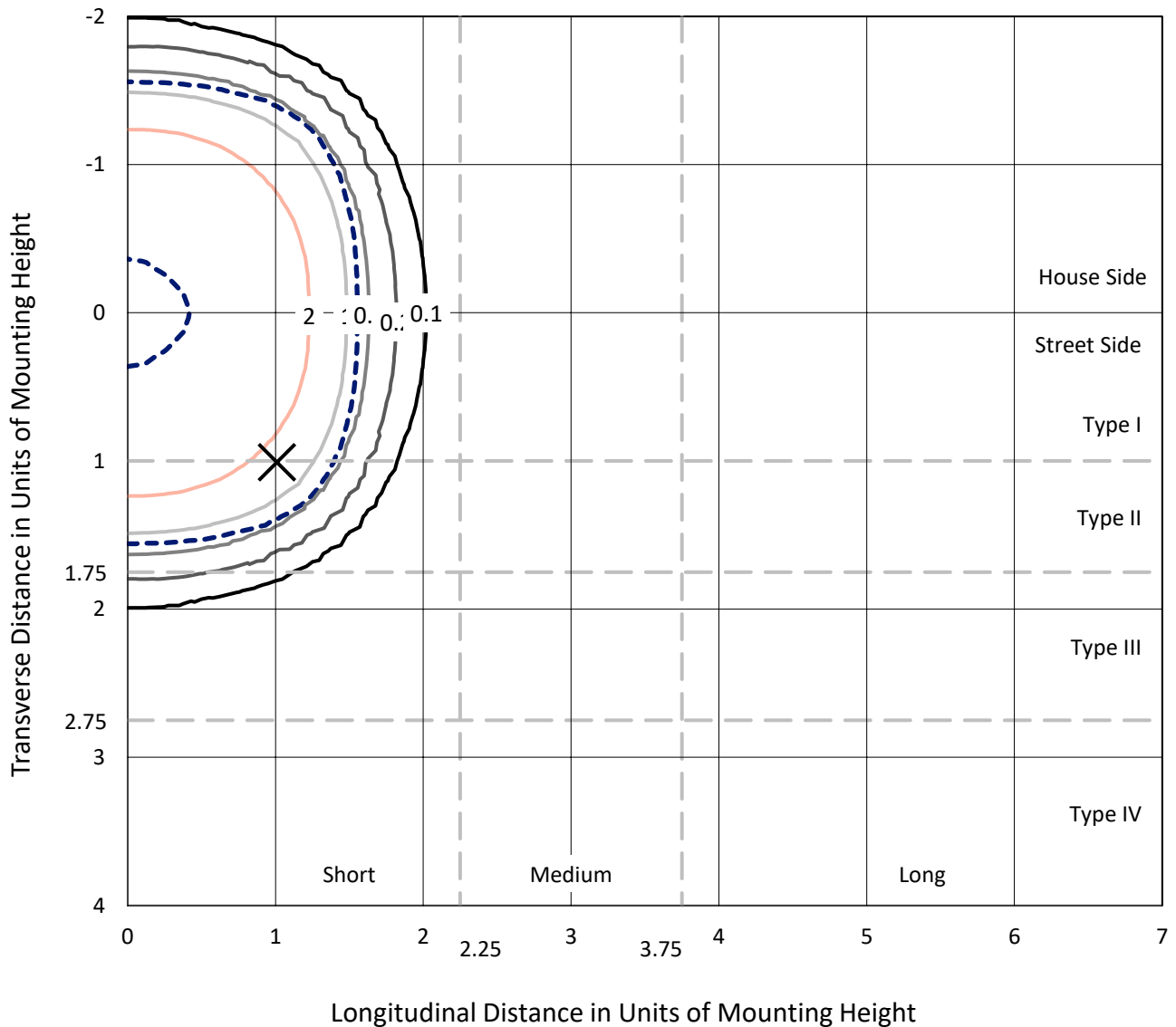
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

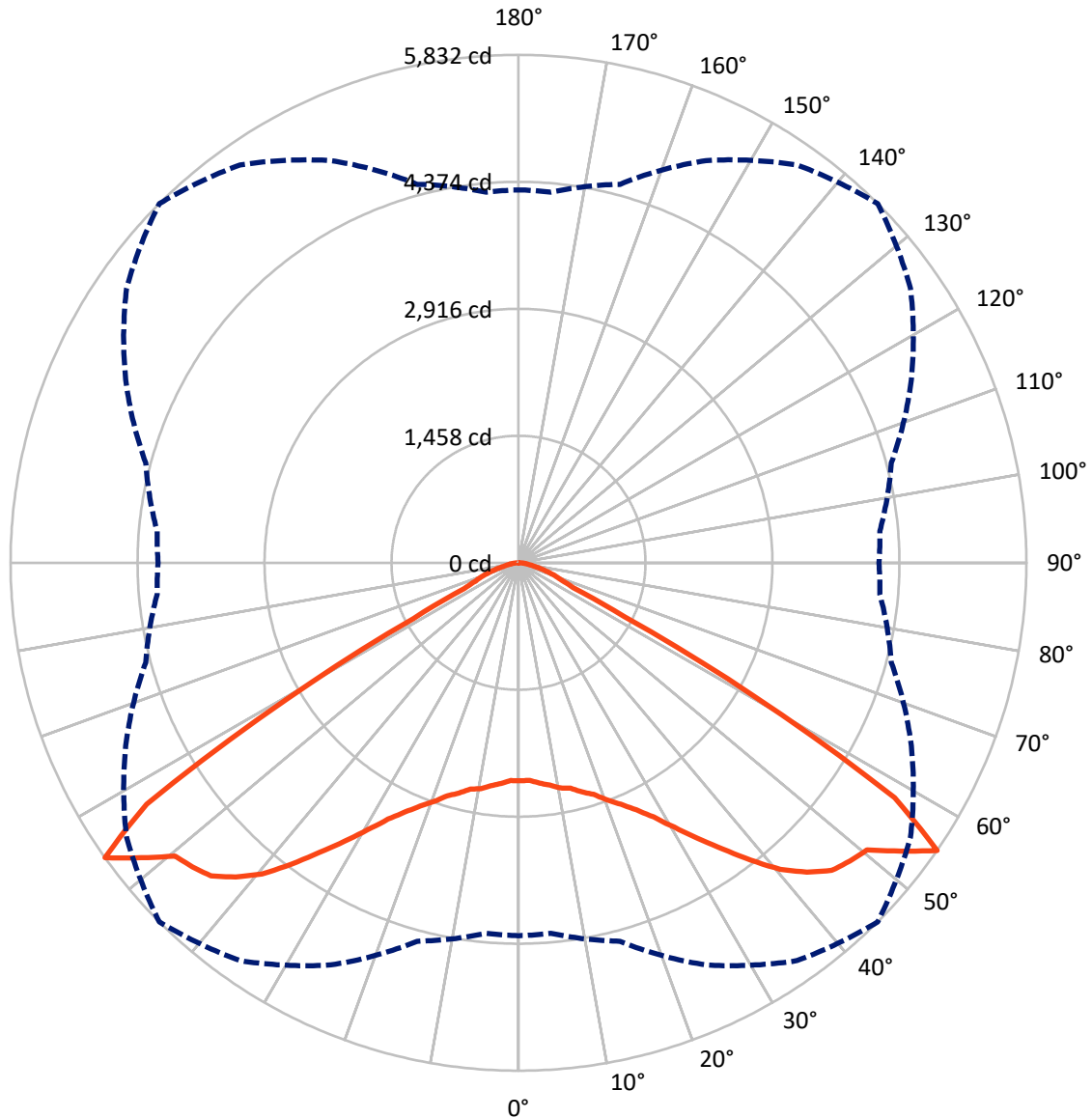
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

REPORT NUMBER: P651822
CATALOG NUMBER: GALN-SA4A-840-U-5NQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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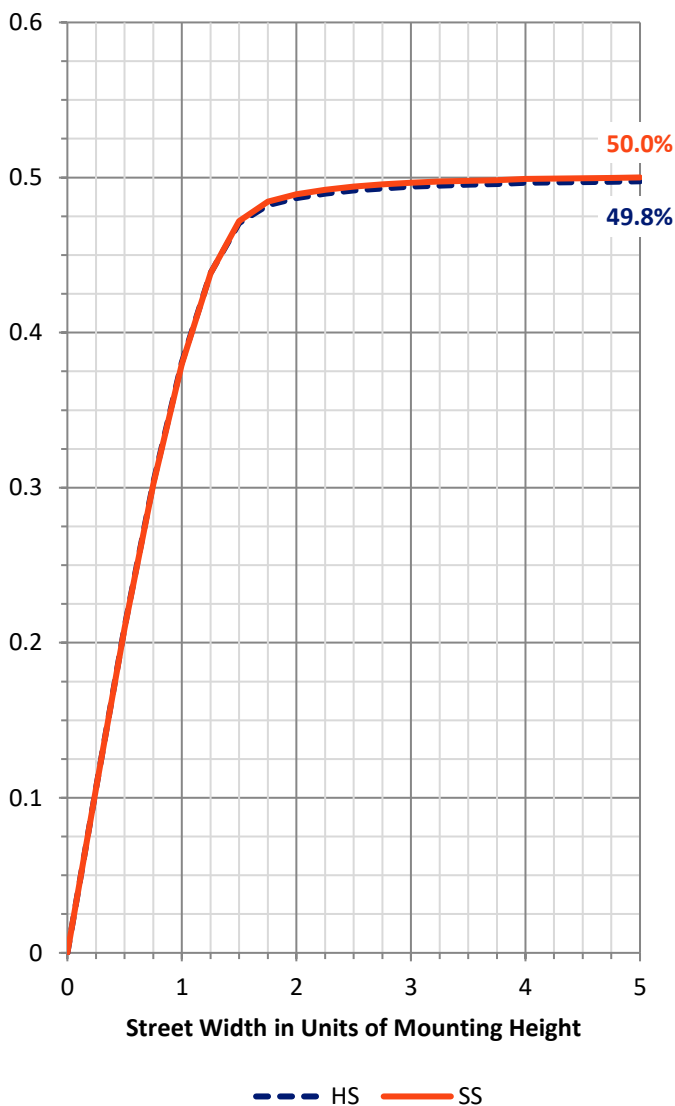
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6852.0	0.0	6852.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6852.0	0.0	6852.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13704.1	0.0	13704.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.4	1.8
10°-20°	774.5	5.7
20°-30°	1444.2	10.5
30°-40°	2418.1	17.6
40°-50°	3762.7	27.5
50°-60°	3906.9	28.5
60°-70°	828.5	6.0
70°-80°	272.9	2.0
80°-90°	52.0	0.4
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°	13704.1	100.0
0°-180°	13704.1	100.0

Coefficient of Utilization



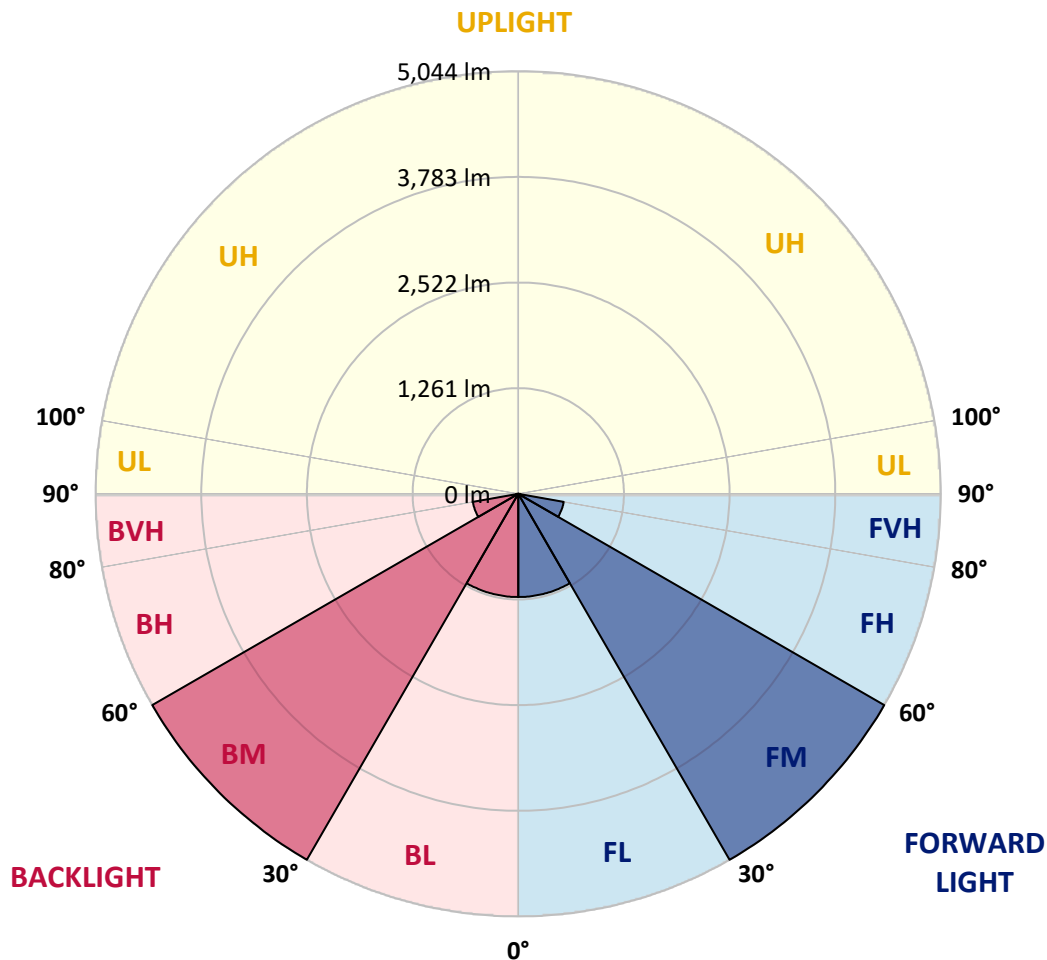
REPORT NUMBER: P651822
 CATALOG NUMBER: GALN-SA4A-840-U-5NQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1231.6	9.0			
FM (30°-60°)	5043.8	36.8			
FH (60°-80°)	550.7	4.0			G0/660
FVH (80°-90°)	26.0	0.2			G1/100
BL (0°-30°)	1231.6	9.0	B3/2500		
BM (30°-60°)	5043.8	36.8	B4/8500		
BH (60°-80°)	550.7	4.0	B2/1000		G0/660
BVH (80°-90°)	26.0	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1	2502.1
2.5°	2532.0	2520.4	2500.5	2515.4	2527.0	2502.1	2512.1	2517.0	2513.7	2500.5	2505.5
5°	2568.4	2561.8	2545.2	2556.8	2541.9	2541.9	2532.0	2518.7	2538.6	2535.3	2543.6
7.5°	2568.4	2560.1	2593.2	2571.7	2578.3	2578.3	2561.8	2548.6	2558.5	2543.6	2535.3
10°	2619.7	2631.3	2616.4	2621.4	2618.1	2629.6	2604.8	2596.6	2588.3	2583.3	2573.4
12.5°	2681.0	2672.7	2677.7	2674.4	2686.0	2656.1	2641.2	2623.1	2638.0	2616.4	2631.3
15°	2730.7	2725.7	2730.7	2743.9	2732.3	2730.7	2704.2	2686.0	2662.8	2667.7	2644.6
17.5°	2798.6	2793.6	2795.2	2806.8	2805.2	2796.9	2777.1	2742.2	2734.0	2720.7	2705.8
20°	2899.6	2891.3	2888.0	2893.0	2901.3	2907.8	2868.1	2854.9	2826.8	2805.2	2780.3
22.5°	2985.7	2982.4	2995.6	2974.1	2992.4	3012.2	2974.1	2967.5	2897.9	2886.3	2859.8
25°	3105.0	3099.9	3091.7	3123.1	3144.7	3143.0	3106.6	3070.2	3017.2	3003.9	3003.9
27.5°	3230.8	3202.6	3245.7	3254.0	3292.1	3303.6	3272.2	3219.2	3169.5	3141.4	3148.0
30°	3388.1	3361.6	3371.6	3431.2	3480.8	3523.9	3444.4	3366.6	3297.1	3247.4	3239.0
32.5°	3545.4	3518.9	3548.8	3606.7	3706.0	3770.6	3692.8	3557.0	3475.9	3403.0	3417.9
35°	3672.9	3692.8	3740.9	3828.6	3931.3	4035.6	3911.4	3807.0	3691.1	3610.0	3621.6
37.5°	3878.3	3939.6	3977.6	4078.7	4224.3	4332.0	4202.8	4067.1	3942.9	3836.9	3800.5
40°	4146.6	4187.9	4231.0	4350.2	4522.5	4630.0	4507.5	4330.3	4207.8	4098.5	4093.6
42.5°	4441.3	4481.0	4525.8	4671.5	4774.2	4855.3	4742.7	4648.3	4512.5	4426.4	4421.4
45°	4784.1	4755.9	4805.6	4901.7	4987.8	5040.8	4967.9	4921.5	4823.8	4744.3	4736.1
47.5°	5012.6	4987.8	5077.2	5163.3	5176.5	5118.6	5133.5	5176.5	5073.8	4943.1	4984.4
50°	5145.1	5145.1	5204.7	5284.2	5259.4	5184.8	5302.4	5305.7	5203.0	5087.1	5087.1
52.5°	4914.9	4966.3	5135.1	5395.1	5477.9	5499.5	5473.0	5360.4	5092.1	4855.3	4843.7
55°	4282.3	4270.8	4499.3	5095.4	5577.3	5832.3	5494.5	4976.2	4431.4	4164.7	4138.2
57.5°	2785.3	2798.6	3139.7	3747.4	4616.8	5092.1	4522.5	3793.8	3139.7	2772.1	2806.8
60°	1253.6	1298.3	1505.3	1959.0	2705.8	3093.4	2712.5	2058.3	1579.8	1371.2	1389.3
62.5°	720.3	728.6	736.9	874.4	1152.6	1362.8	1197.2	924.0	814.8	778.3	778.3
65°	607.7	602.7	604.4	616.0	645.8	688.9	670.7	645.8	649.2	645.8	640.8
67.5°	516.6	523.3	518.3	526.6	528.2	534.9	546.5	556.4	558.1	561.4	558.1
70°	423.9	425.5	428.9	435.6	437.2	442.1	458.7	467.0	472.0	472.0	478.6
72.5°	324.5	322.9	326.2	332.9	341.1	342.8	357.7	369.3	375.9	367.6	369.3
75°	213.6	215.3	220.3	225.2	236.8	248.4	253.4	264.9	266.6	270.0	261.6
77.5°	127.5	130.9	135.8	145.7	155.7	165.6	177.2	185.4	188.8	185.4	175.5
80°	82.8	82.8	89.4	97.7	109.3	117.6	124.2	130.9	135.8	130.9	127.5
82.5°	51.3	51.3	59.6	69.6	77.8	82.8	92.8	101.0	106.0	102.7	97.7
85°	26.5	28.2	34.7	43.1	49.7	53.0	51.3	46.3	41.4	39.8	36.4
87.5°	8.2	8.2	9.9	9.9	8.2	8.2	9.9	8.2	9.9	9.9	9.9
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)