

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: P651852

Luminaire Tested: **GALN-SA4A-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15187.6 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

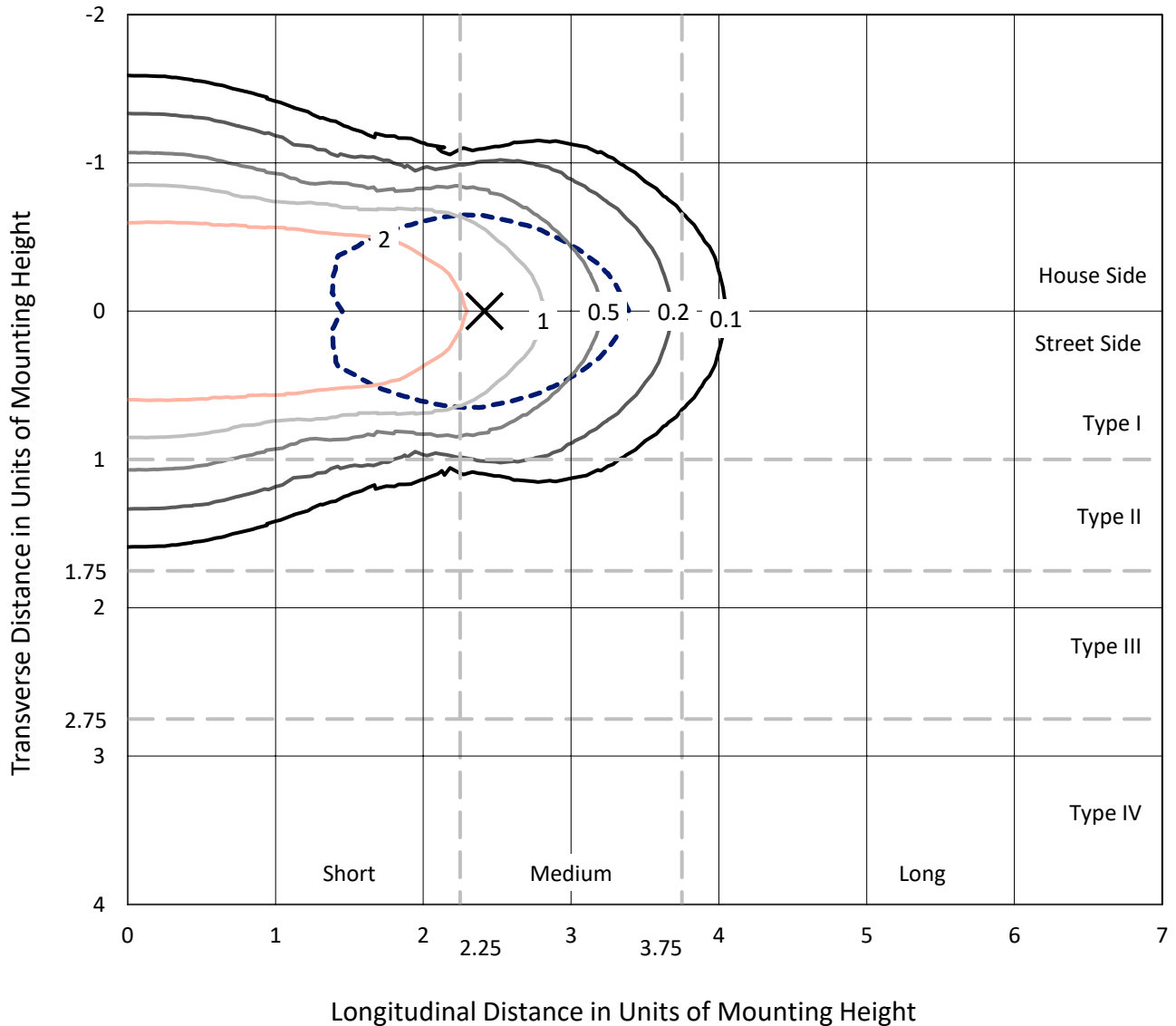
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P651852  
 CATALOG NUMBER: GALN-SA4A-840-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

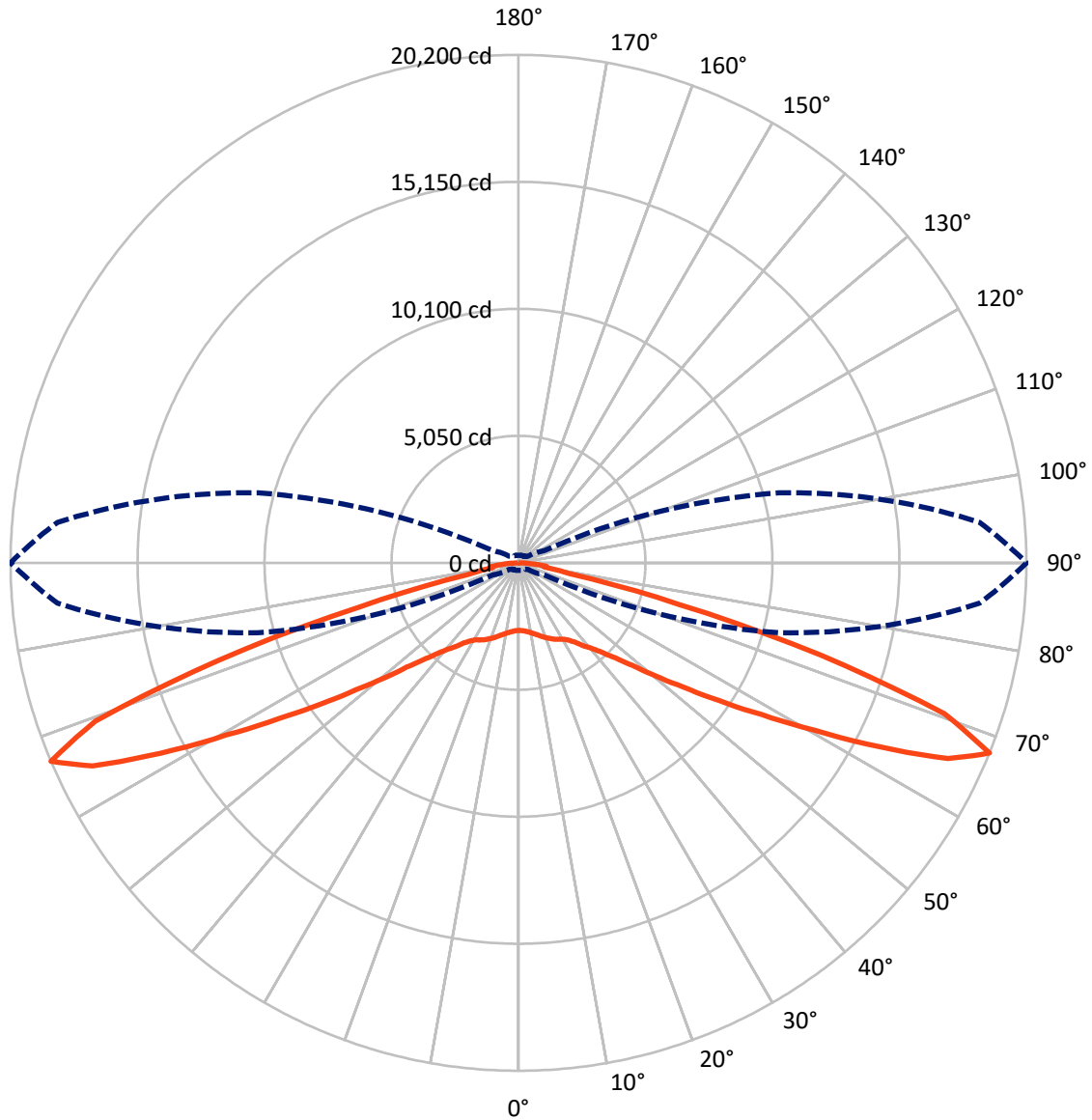
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P651852  
CATALOG NUMBER: GALN-SA4A-840-U-T1

### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P651852  
 CATALOG NUMBER: GALN-SA4A-840-U-T1

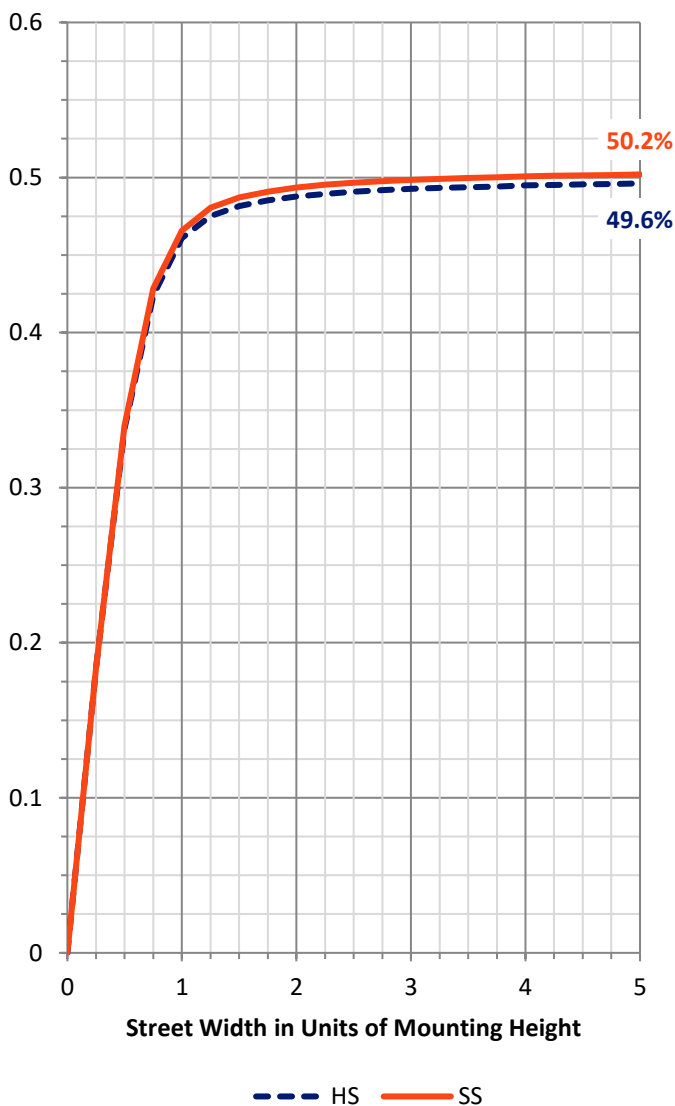
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7593.8	0.0	7593.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7593.8	0.0	7593.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15187.6	0.0	15187.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.1	1.8
10°-20°	857.7	5.6
20°-30°	1435.5	9.5
30°-40°	1944.7	12.8
40°-50°	2463.3	16.2
50°-60°	3077.3	20.3
60°-70°	3617.2	23.8
70°-80°	1383.7	9.1
80°-90°	140.2	0.9
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°	15187.6	100.0
0°-180°	15187.6	100.0

**Coefficient of Utilization**

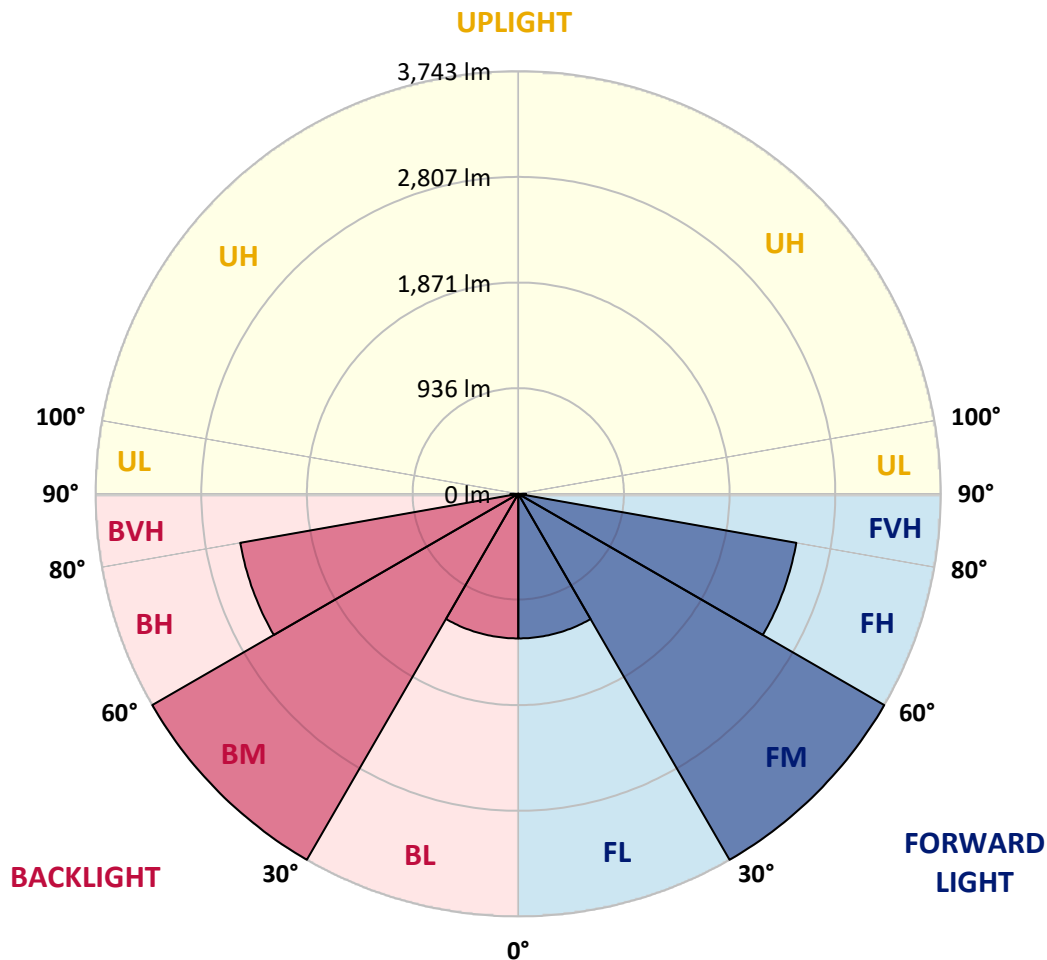


REPORT NUMBER: P651852  
 CATALOG NUMBER: GALN-SA4A-840-U-T1

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.6	8.4			
FM (30°-60°)	3742.6	24.6			
FH (60°-80°)	2500.5	16.5			G2/5000
FVH (80°-90°)	70.1	0.5			G1/100
BL (0°-30°)	1280.6	8.4	B3/2500		
BM (30°-60°)	3742.6	24.6	B3/5000		
BH (60°-80°)	2500.5	16.5	B4/5000		G4/5000
BVH (80°-90°)	70.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type I Short





REPORT NUMBER: P651852  
 CATALOG NUMBER: GALN-SA4A-840-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7	2688.7
2.5°	2723.2	2721.5	2722.3	2721.5	2724.0	2722.3	2712.2	2703.8	2697.1	2697.9	2695.4
5°	2781.2	2782.0	2782.9	2778.7	2784.6	2781.2	2765.2	2751.8	2738.3	2733.2	2731.6
7.5°	2829.1	2833.3	2835.9	2840.1	2850.1	2850.1	2841.7	2822.4	2793.0	2776.1	2775.3
10°	2877.1	2880.4	2888.0	2901.4	2918.3	2934.2	2930.9	2904.8	2867.0	2838.4	2831.6
12.5°	2893.9	2898.1	2923.3	2962.0	2999.8	3031.0	3031.0	3009.9	2961.2	2917.4	2904.8
15°	2835.0	2842.6	2888.0	2970.4	3069.6	3137.8	3152.9	3123.5	3071.3	3004.1	2988.9
17.5°	2718.1	2736.6	2803.1	2925.0	3089.8	3231.1	3274.9	3260.6	3193.3	3107.5	3089.8
20°	2592.8	2613.0	2683.6	2845.1	3073.0	3285.8	3412.8	3416.1	3332.9	3208.4	3182.3
22.5°	2454.9	2470.0	2560.8	2750.1	3022.6	3298.4	3531.4	3589.4	3476.7	3309.3	3272.3
25°	2300.1	2317.0	2412.0	2616.4	2927.5	3284.1	3639.8	3767.7	3627.2	3417.0	3369.9
27.5°	2152.1	2158.8	2260.6	2468.3	2802.2	3247.1	3719.7	3931.7	3793.8	3506.1	3446.4
30°	2010.0	2026.0	2116.0	2321.2	2658.4	3174.8	3788.7	4118.4	3972.9	3599.5	3522.9
32.5°	1859.5	1878.8	1976.4	2184.1	2514.6	3066.3	3830.8	4322.7	4222.7	3750.9	3669.3
35°	1714.8	1727.4	1825.8	2027.7	2374.1	2940.1	3838.3	4553.2	4544.8	3980.5	3872.0
37.5°	1566.8	1585.3	1684.5	1878.0	2225.3	2806.4	3800.5	4797.9	4933.3	4299.2	4182.3
40°	1424.7	1440.6	1538.2	1733.3	2056.2	2643.3	3710.5	5021.6	5386.6	4627.2	4461.5
42.5°	1269.9	1274.1	1380.9	1579.4	1890.6	2454.0	3581.0	5220.9	5892.0	5067.0	4861.0
45°	1094.1	1105.1	1204.3	1399.4	1700.5	2242.1	3405.2	5385.8	6532.9	5676.8	5395.9
47.5°	918.4	927.6	1018.5	1211.0	1492.8	1999.1	3134.4	5530.4	7190.6	6451.3	6083.0
50°	746.8	751.9	825.9	996.6	1259.0	1743.4	2798.8	5576.7	7934.0	7548.0	7077.9
52.5°	590.4	598.0	654.3	788.0	1009.2	1441.5	2436.4	5462.3	8801.9	8848.2	8185.5
55°	478.5	481.1	523.1	621.5	788.9	1125.3	1999.1	5143.6	9735.4	10514.2	9669.0
57.5°	412.1	413.8	437.3	492.0	607.2	848.6	1550.8	4540.6	10573.9	12466.1	11379.6
60°	374.2	375.1	388.5	420.5	481.1	650.9	1111.0	3689.5	11401.4	14638.4	13505.6
62.5°	350.7	350.7	359.9	377.6	407.0	499.6	804.8	2661.8	11968.3	16842.7	16126.2
65°	328.0	328.0	334.7	347.3	363.3	408.7	594.6	1735.8	11954.0	18448.2	18761.9
67.5°	301.9	301.9	307.0	319.6	328.8	351.5	459.2	1137.0	10737.9	18412.9	20200.0
70°	270.8	270.8	277.5	288.5	296.0	310.3	362.5	777.9	7888.6	15721.7	17964.6
72.5°	239.7	240.5	244.7	255.7	261.6	270.0	301.1	545.0	4839.1	10705.1	12561.2
75°	205.2	206.9	211.1	222.0	227.1	230.4	254.0	388.5	2448.2	5771.8	6571.6
77.5°	165.7	169.0	171.6	183.3	186.7	191.7	209.4	280.9	1074.8	2073.9	2092.4
80°	121.1	125.3	132.9	143.8	146.3	149.7	159.8	199.3	486.9	947.0	1028.5
82.5°	89.1	95.0	85.8	100.1	100.1	95.9	112.7	133.7	223.7	937.7	1121.9
85°	48.8	49.6	44.6	51.3	54.7	53.8	59.7	65.6	108.5	625.7	645.0
87.5°	11.8	12.6	13.5	16.0	19.3	19.3	21.0	18.5	35.3	202.7	116.1
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)