

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: P458703

Luminaire Tested: **GALN-SA2C-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458703  
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-SA2C-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13147 lumens  
Efficiency: N/A  
Efficacy: 121.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

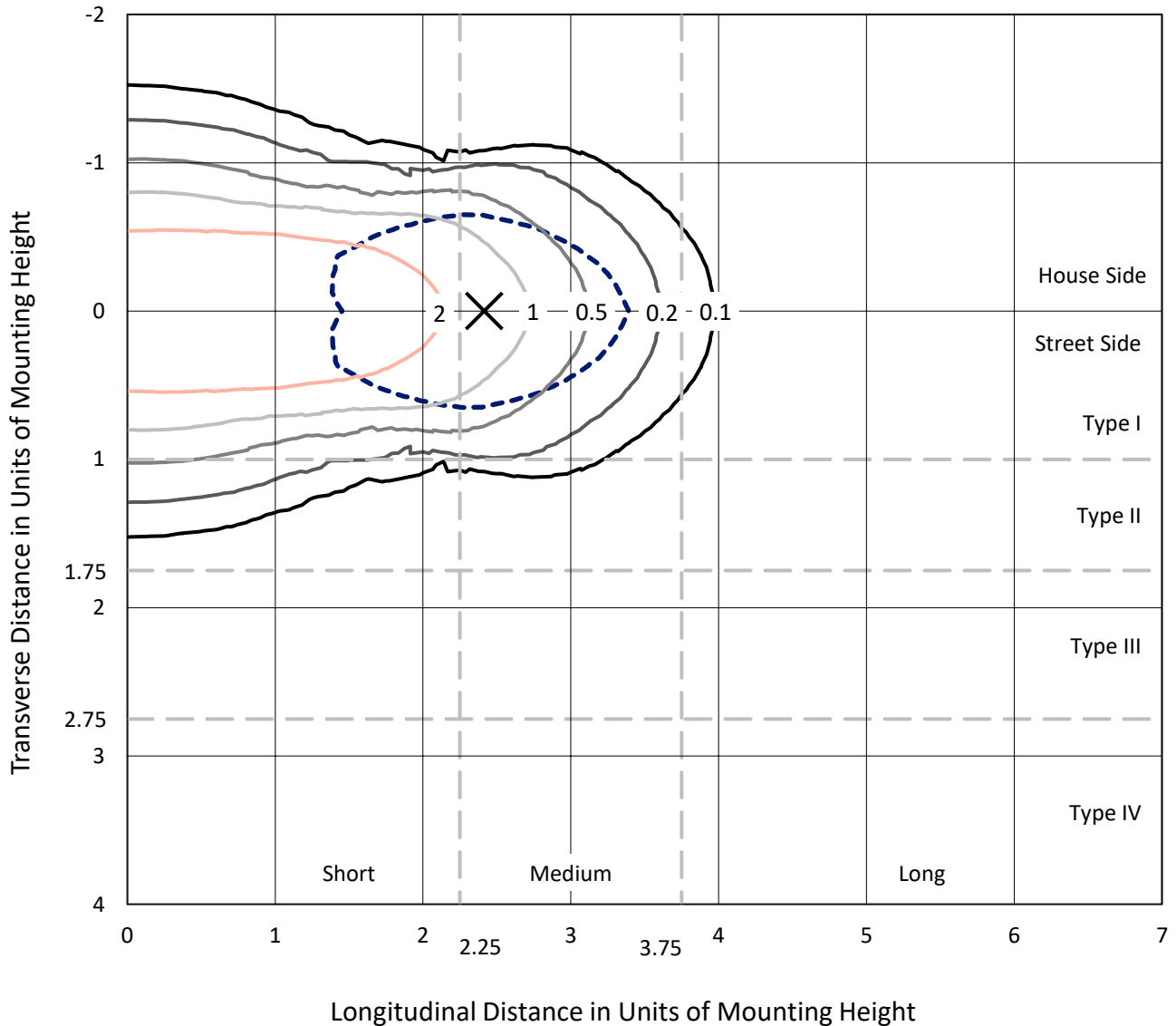
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P458703  
 CATALOG NUMBER: GALN-SA2C-735-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

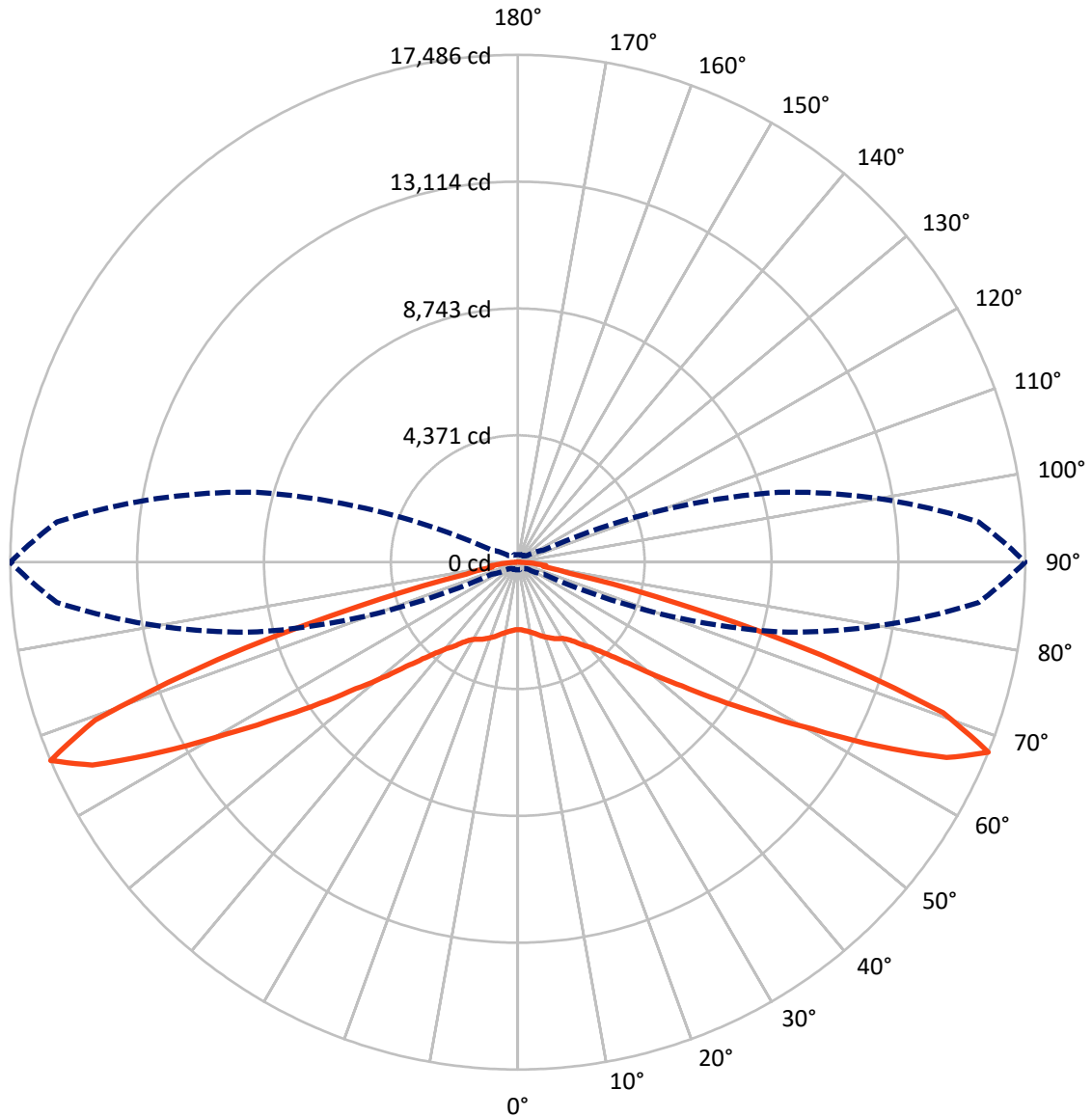
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc  
 Type I - Short - N/A

REPORT NUMBER: P458703  
CATALOG NUMBER: GALN-SA2C-735-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P458703

CATALOG NUMBER: GALN-SA2C-735-U-T1

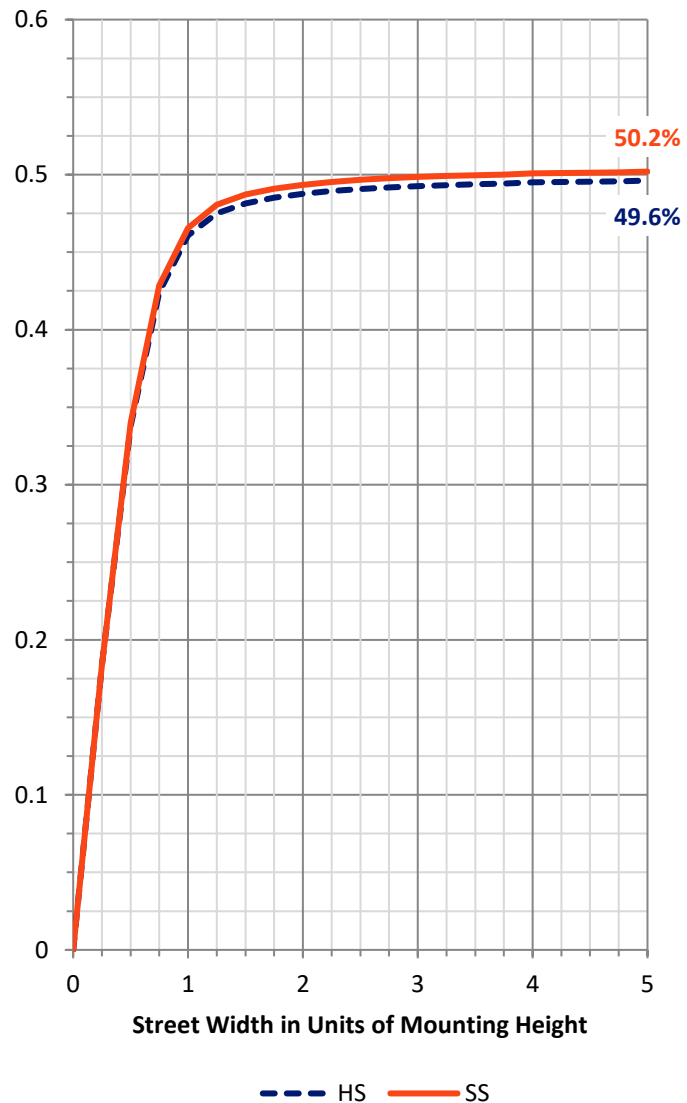
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6573.5	0.0	6573.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6573.5	0.0	6573.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13147.0	0.0	13147.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.0	1.8
10°-20°	742.4	5.6
20°-30°	1242.6	9.5
30°-40°	1683.4	12.8
40°-50°	2132.3	16.2
50°-60°	2663.8	20.3
60°-70°	3131.2	23.8
70°-80°	1197.8	9.1
80°-90°	121.3	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°	13147.0	100.0
0°-180°	13147.0	100.0



REPORT NUMBER: P458703

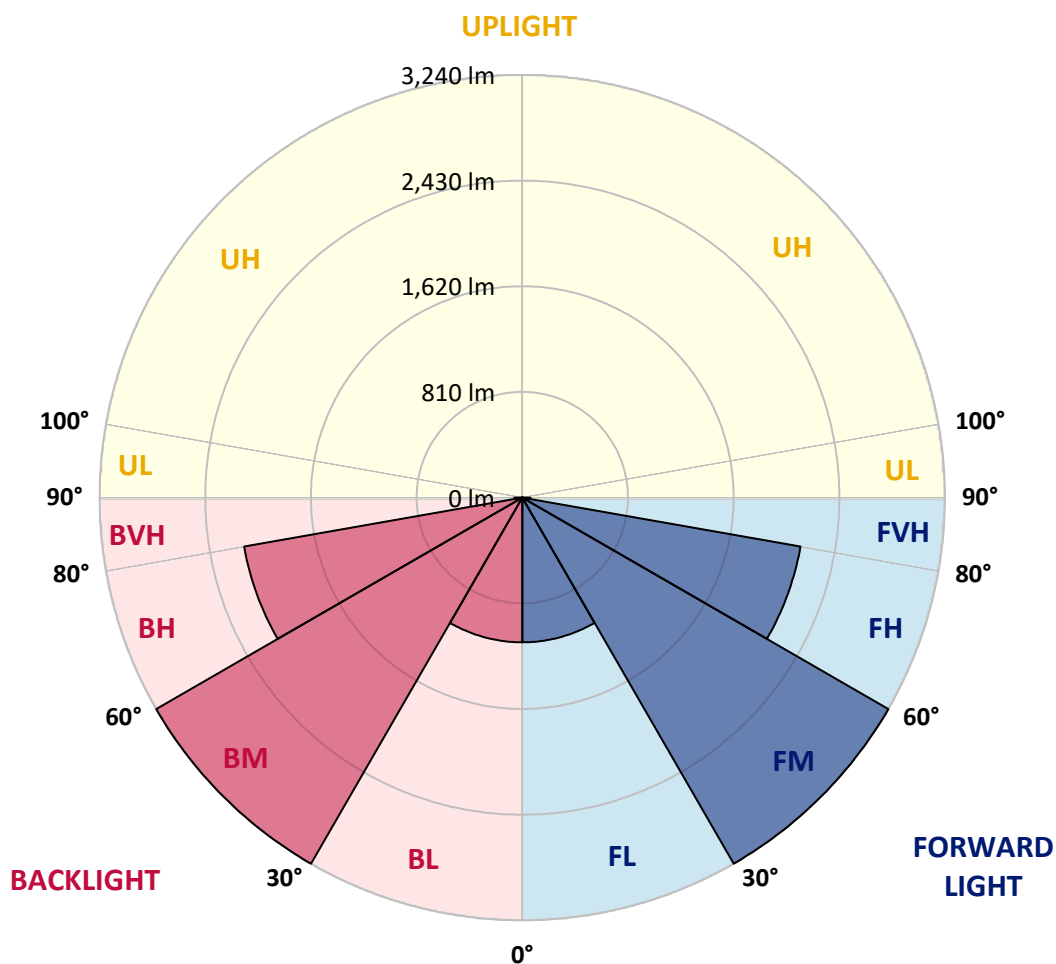
CATALOG NUMBER: GALN-SA2C-735-U-T1

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1108.5	8.4			
FM	(30°-60°)	3239.8	24.6			
FH	(60°-80°)	2164.5	16.5			G2/5000
FVH	(80°-90°)	60.7	0.5			G1/100
BL	(0°-30°)	1108.5	8.4	B3/2500		
BM	(30°-60°)	3239.8	24.6	B3/5000		
BH	(60°-80°)	2164.5	16.5	B3/2500		G3/2500
BVH	(80°-90°)	60.7	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





REPORT NUMBER: P458703

CATALOG NUMBER: GALN-SA2C-735-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4	2327.4
2.5°	2357.3	2355.8	2356.5	2355.8	2358.0	2356.5	2347.8	2340.5	2334.7	2335.4	2333.3
5°	2407.5	2408.2	2409.0	2405.3	2410.4	2407.5	2393.7	2382.0	2370.4	2366.0	2364.6
7.5°	2449.0	2452.6	2454.8	2458.5	2467.2	2467.2	2459.9	2443.2	2417.7	2403.1	2402.4
10°	2490.5	2493.4	2500.0	2511.6	2526.2	2540.0	2537.1	2514.5	2481.8	2457.0	2451.2
12.5°	2505.1	2508.7	2530.5	2564.0	2596.8	2623.7	2623.7	2605.5	2563.3	2525.4	2514.5
15°	2454.1	2460.7	2500.0	2571.3	2657.2	2716.2	2729.3	2703.8	2658.7	2600.4	2587.3
17.5°	2352.9	2368.9	2426.4	2532.0	2674.7	2797.0	2834.8	2822.5	2764.2	2690.0	2674.7
20°	2244.4	2261.9	2323.1	2462.8	2660.1	2844.3	2954.2	2957.2	2885.1	2777.3	2754.8
22.5°	2125.0	2138.1	2216.8	2380.6	2616.4	2855.2	3056.9	3107.1	3009.6	2864.7	2832.7
25°	1991.1	2005.7	2087.9	2264.8	2534.2	2842.9	3150.8	3261.5	3139.9	2957.9	2917.1
27.5°	1863.0	1868.8	1956.9	2136.7	2425.7	2810.8	3220.0	3403.4	3284.0	3035.0	2983.4
30°	1739.9	1753.8	1831.7	2009.3	2301.2	2748.2	3279.7	3565.0	3439.1	3115.9	3049.6
32.5°	1609.6	1626.4	1710.8	1890.6	2176.7	2654.3	3316.1	3741.9	3655.3	3246.9	3176.3
35°	1484.4	1495.3	1580.5	1755.2	2055.2	2545.1	3322.6	3941.4	3934.1	3445.6	3351.7
37.5°	1356.3	1372.3	1458.2	1625.6	1926.3	2429.3	3289.8	4153.3	4270.5	3721.6	3620.4
40°	1233.2	1247.1	1331.5	1500.4	1780.0	2288.1	3212.0	4346.9	4662.9	4005.5	3862.1
42.5°	1099.3	1102.9	1195.4	1367.2	1636.6	2124.3	3099.8	4519.4	5100.4	4386.2	4207.9
45°	947.1	956.6	1042.5	1211.4	1472.0	1940.9	2947.7	4662.1	5655.1	4914.0	4670.9
47.5°	795.0	803.0	881.6	1048.3	1292.2	1730.5	2713.3	4787.4	6224.4	5584.5	5265.7
50°	646.5	650.8	714.9	862.7	1089.8	1509.2	2422.8	4827.4	6868.0	6533.8	6126.9
52.5°	511.1	517.6	566.4	682.1	873.6	1247.8	2109.0	4728.4	7619.3	7659.3	7085.7
55°	414.2	416.4	452.8	538.0	682.9	974.1	1730.5	4452.5	8427.4	9101.5	8369.9
57.5°	356.7	358.2	378.6	425.9	525.6	734.6	1342.4	3930.5	9153.2	10791.2	9850.6
60°	324.0	324.7	336.3	364.0	416.4	563.5	961.7	3193.8	9869.5	12671.6	11691.0
62.5°	303.6	303.6	311.6	326.9	352.4	432.4	696.7	2304.1	10360.2	14579.7	13959.5
65°	283.9	283.9	289.7	300.7	314.5	353.8	514.7	1502.6	10347.8	15969.5	16241.0
67.5°	261.4	261.4	265.7	276.6	284.6	304.3	397.5	984.3	9295.2	15938.9	17485.9
70°	234.4	234.4	240.2	249.7	256.3	268.6	313.8	673.4	6828.7	13609.3	15550.9
72.5°	207.5	208.2	211.8	221.3	226.4	233.7	260.6	471.7	4188.9	9266.8	10873.5
75°	177.6	179.1	182.7	192.2	196.6	199.5	219.9	336.3	2119.2	4996.3	5688.6
77.5°	143.4	146.3	148.5	158.7	161.6	166.0	181.3	243.2	930.4	1795.3	1811.3
80°	104.8	108.5	115.0	124.5	126.7	129.6	138.3	172.5	421.5	819.7	890.3
82.5°	77.2	82.3	74.3	86.6	86.6	83.0	97.6	115.8	193.6	811.7	971.2
85°	42.2	43.0	38.6	44.4	47.3	46.6	51.7	56.8	93.9	541.6	558.4
87.5°	10.2	10.9	11.6	13.8	16.7	16.7	18.2	16.0	30.6	175.4	100.5
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)