

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: P459167

Luminaire Tested: **GALN-SA6C-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459167  
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-SA6C-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 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: 38768 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

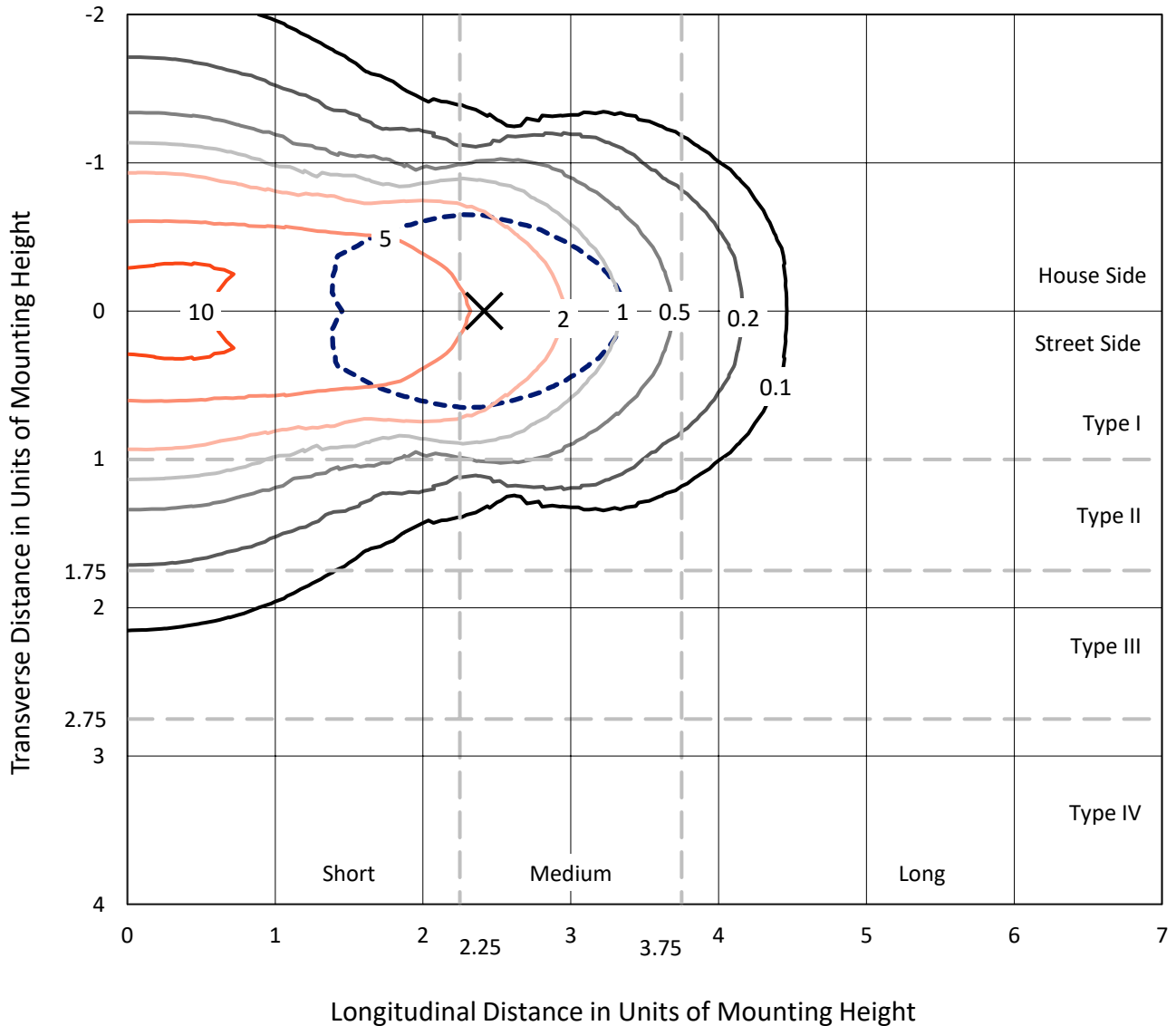
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459167  
 CATALOG NUMBER: GALN-SA6C-735-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

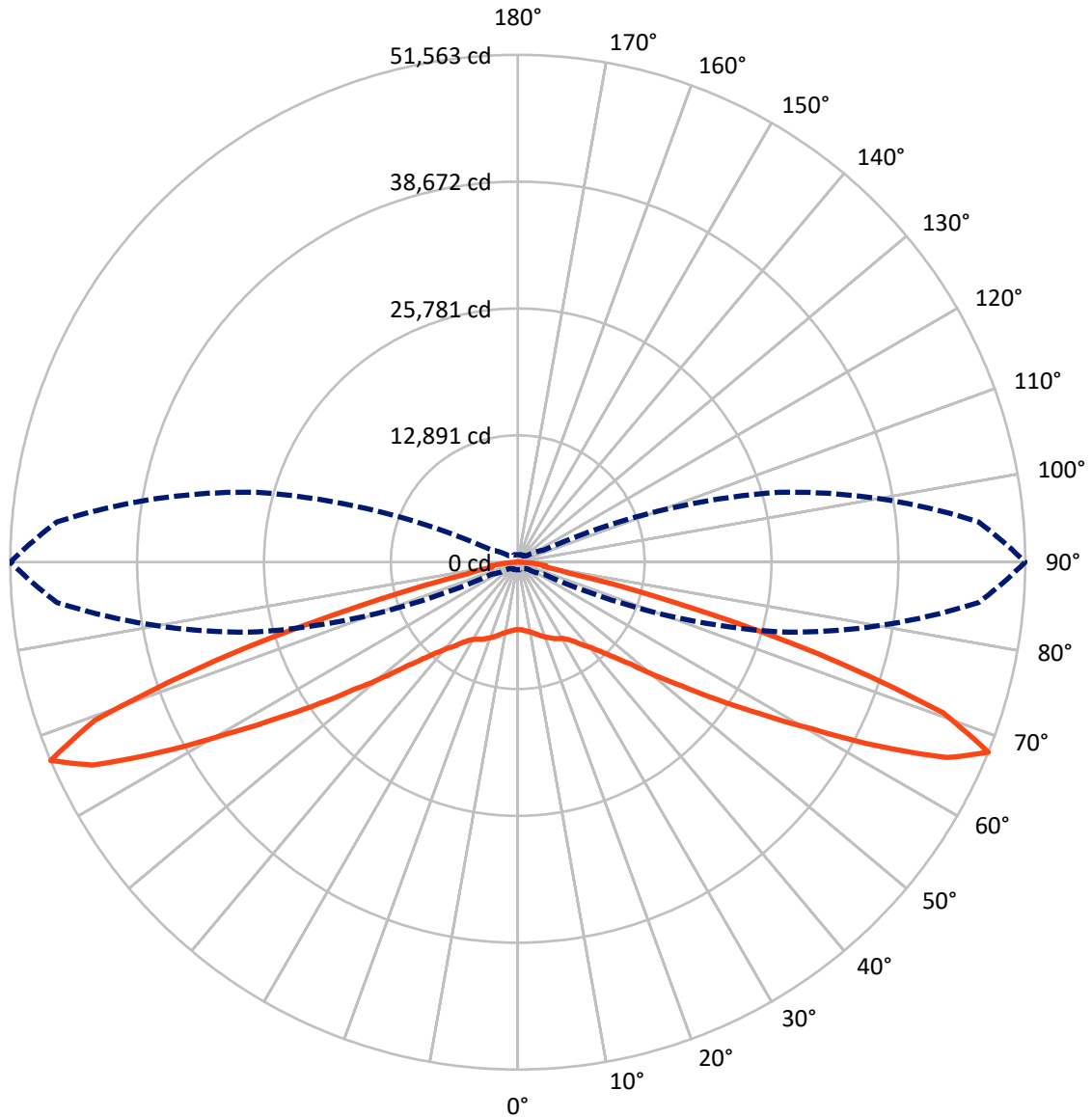
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P459167  
CATALOG NUMBER: GALN-SA6C-735-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459167  
 CATALOG NUMBER: GALN-SA6C-735-U-T1

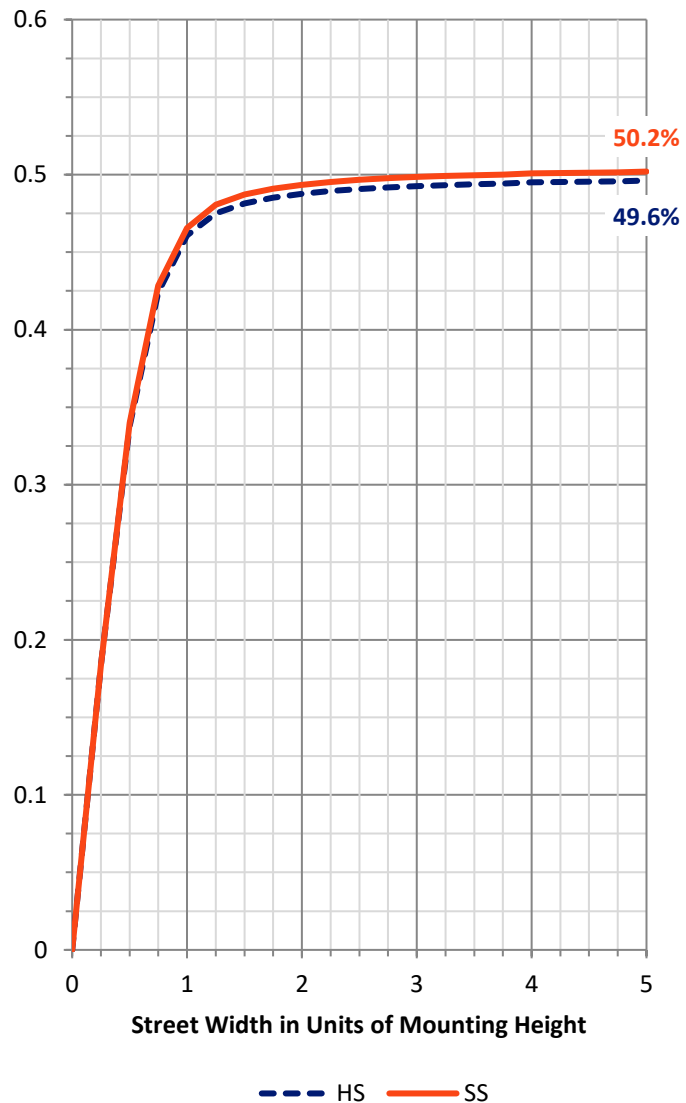
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19384.0	0.0	19384.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19384.0	0.0	19384.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38768.0	0.0	38768.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	684.3	1.8
10°-20°	2189.2	5.6
20°-30°	3664.2	9.5
30°-40°	4964.1	12.8
40°-50°	6287.8	16.2
50°-60°	7855.1	20.3
60°-70°	9233.3	23.8
70°-80°	3532.2	9.1
80°-90°	357.9	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°	38768.0	100.0
0°-180°	38768.0	100.0



REPORT NUMBER: P459167

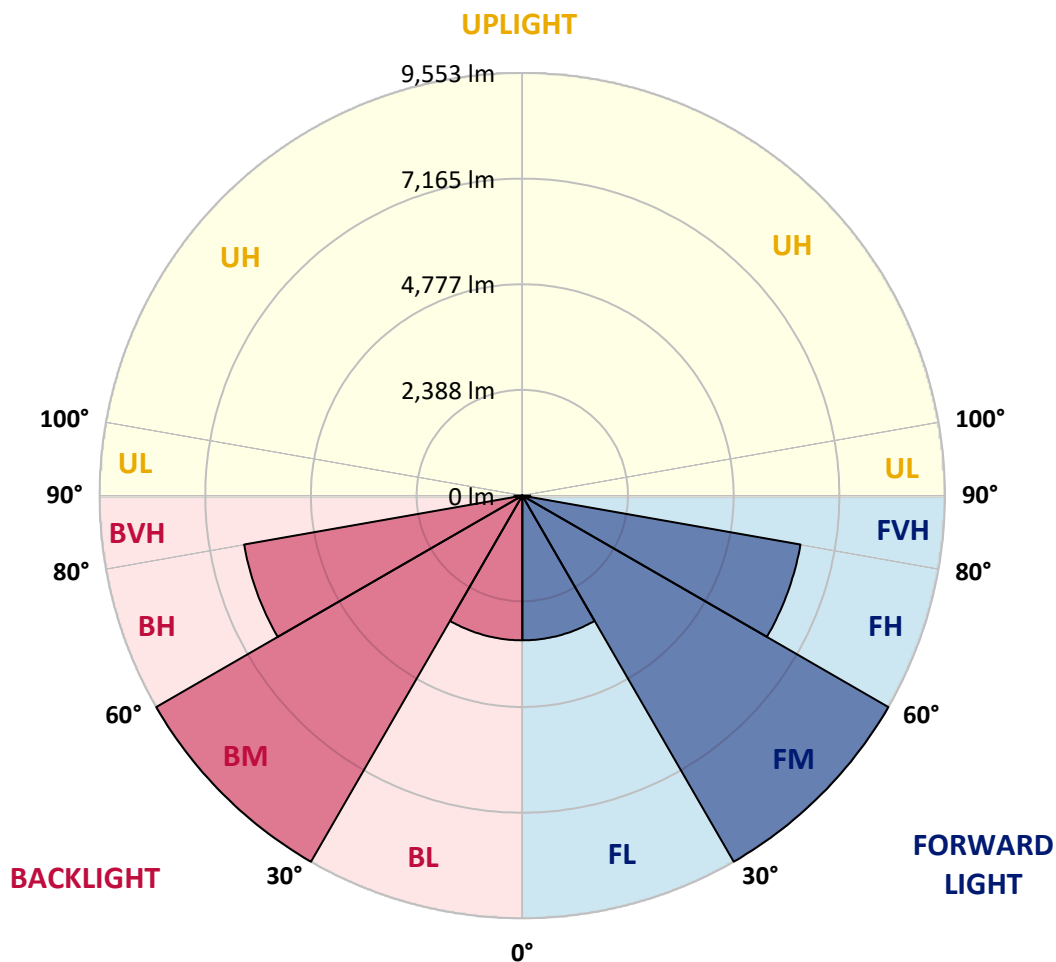
CATALOG NUMBER: GALN-SA6C-735-U-T1

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3268.9	8.4			
FM (30°-60°)	9553.5	24.6			
FH (60°-80°)	6382.7	16.5			G3/7500
FVH (80°-90°)	178.9	0.5			G2/225
BL (0°-30°)	3268.9	8.4	B4/5000		
BM (30°-60°)	9553.5	24.6	B5		
BH (60°-80°)	6382.7	16.5	B5		G5
BVH (80°-90°)	178.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





REPORT NUMBER: P459167  
 CATALOG NUMBER: GALN-SA6C-735-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6863.1	6863.1	6863.1	6863.1	6863.1	6863.1	6863.1	6863.1	6863.1	6863.1	6863.1
2.5°	6951.2	6946.9	6949.0	6946.9	6953.3	6949.0	6923.3	6901.8	6884.6	6886.8	6880.3
5°	7099.3	7101.4	7103.6	7092.8	7107.9	7099.3	7058.5	7024.1	6989.8	6976.9	6972.6
7.5°	7221.6	7232.4	7238.8	7249.6	7275.3	7275.3	7253.9	7204.5	7129.3	7086.4	7084.3
10°	7344.0	7352.6	7371.9	7406.3	7449.2	7490.0	7481.4	7414.9	7318.3	7245.3	7228.1
12.5°	7386.9	7397.7	7462.1	7560.8	7657.4	7736.9	7736.9	7683.2	7558.7	7447.1	7414.9
15°	7236.7	7256.0	7371.9	7582.3	7835.6	8009.5	8048.1	7973.0	7839.9	7668.2	7629.5
17.5°	6938.3	6985.5	7155.1	7466.4	7887.1	8247.8	8359.4	8322.9	8151.2	7932.2	7887.1
20°	6618.4	6669.9	6850.3	7262.4	7844.2	8387.3	8711.5	8720.1	8507.5	8189.8	8123.3
22.5°	6266.3	6305.0	6536.8	7019.9	7715.4	8419.5	9014.2	9162.3	8874.6	8447.4	8353.0
25°	5871.3	5914.3	6156.9	6678.5	7472.8	8383.0	9291.1	9617.4	9258.9	8722.2	8602.0
27.5°	5493.5	5510.7	5770.4	6300.7	7153.0	8288.6	9495.1	10036.0	9684.0	8949.8	8797.4
30°	5130.7	5171.5	5401.2	5925.0	6785.9	8104.0	9671.1	10512.6	10141.2	9188.1	8992.7
32.5°	4746.5	4795.8	5044.9	5575.1	6418.8	7827.0	9778.4	11034.3	10778.8	9574.5	9366.2
35°	4377.2	4409.4	4660.6	5175.8	6060.3	7505.0	9797.7	11622.5	11601.0	10160.5	9883.6
37.5°	3999.4	4046.6	4299.9	4793.7	5680.3	7163.7	9701.1	12247.2	12592.8	10974.2	10675.8
40°	3636.6	3677.4	3926.4	4424.4	5248.8	6747.2	9471.4	12818.2	13749.9	11811.4	11388.5
42.5°	3241.6	3252.3	3525.0	4031.6	4825.9	6264.2	9140.8	13327.0	15040.1	12934.1	12408.2
45°	2792.9	2820.8	3074.1	3572.2	4340.7	5723.2	8692.2	13747.8	16675.9	14490.5	13773.5
47.5°	2344.2	2367.9	2599.7	3091.3	3810.5	5102.8	8000.9	14117.0	18354.7	16467.7	15527.4
50°	1906.3	1919.2	2108.1	2543.9	3213.7	4450.2	7144.4	14235.1	20252.4	19267.0	18067.0
52.5°	1507.0	1526.3	1670.2	2011.5	2576.1	3679.5	6219.1	13943.1	22467.8	22585.9	20894.3
55°	1221.5	1227.9	1335.3	1586.4	2013.6	2872.3	5102.8	13129.5	24850.7	26838.6	24681.1
57.5°	1051.9	1056.2	1116.3	1255.8	1549.9	2166.1	3958.6	11590.3	26991.0	31821.2	29047.6
60°	955.3	957.4	991.8	1073.4	1227.9	1661.6	2835.8	9417.8	29103.4	37366.2	34474.6
62.5°	895.2	895.2	918.8	963.9	1039.0	1275.2	2054.4	6794.4	30550.3	42992.9	41163.8
65°	837.2	837.2	854.4	886.6	927.4	1043.3	1517.7	4430.9	30513.8	47091.0	47891.7
67.5°	770.7	770.7	783.6	815.8	839.4	897.3	1172.1	2902.4	27409.6	47000.8	51562.7
70°	691.3	691.3	708.4	736.3	755.7	792.1	925.2	1985.7	20136.5	40131.2	45856.6
72.5°	611.8	614.0	624.7	652.6	667.6	689.1	768.5	1391.1	12352.4	27325.9	32063.8
75°	523.8	528.1	538.8	566.7	579.6	588.2	648.3	991.8	6249.2	14733.1	16774.7
77.5°	422.9	431.5	437.9	468.0	476.6	489.5	534.5	717.0	2743.5	5293.9	5341.1
80°	309.1	319.9	339.2	367.1	373.5	382.1	407.9	508.8	1243.0	2417.2	2625.5
82.5°	227.6	242.6	219.0	255.5	255.5	244.7	287.7	341.3	571.0	2393.6	2863.8
85°	124.5	126.7	113.8	131.0	139.5	137.4	152.4	167.4	276.9	1597.2	1646.6
87.5°	30.1	32.2	34.3	40.8	49.4	49.4	53.7	47.2	90.2	517.4	296.3
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)