

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: P459515

Luminaire Tested: **GALN-SA9C-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459515  
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-SA9C-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 59267 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

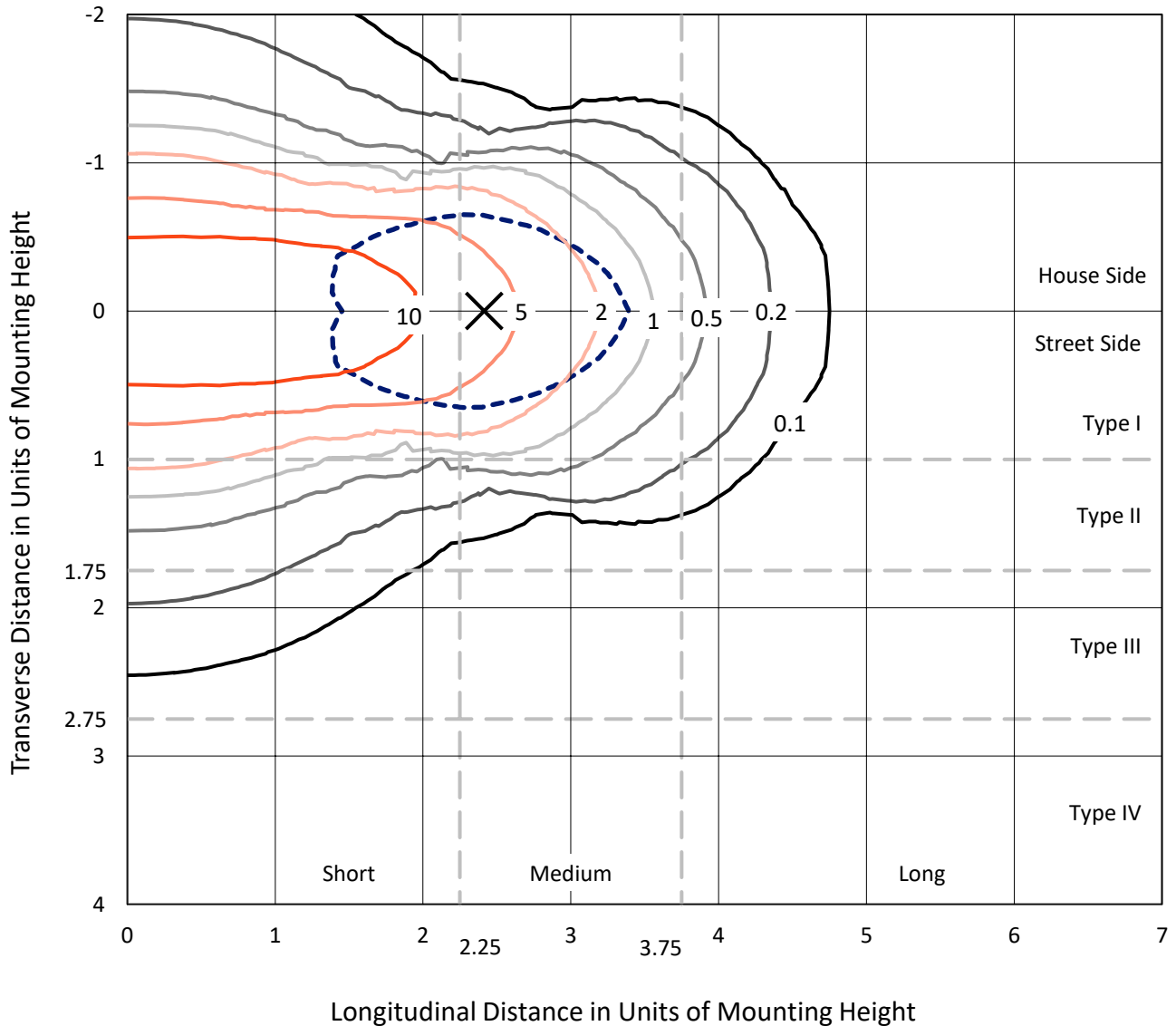
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P459515  
 CATALOG NUMBER: GALN-SA9C-735-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

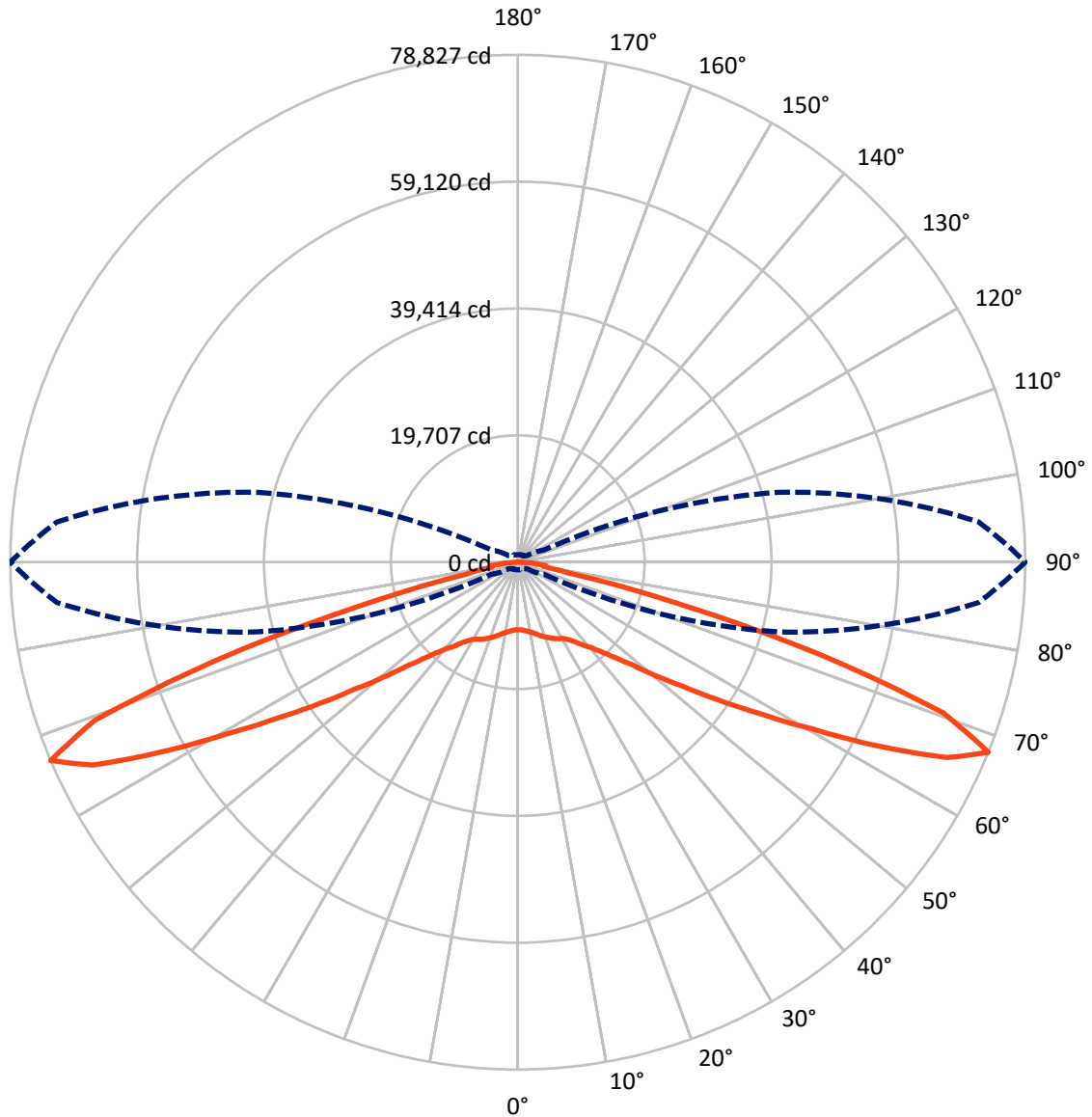
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type I - Short - N/A

REPORT NUMBER: P459515  
CATALOG NUMBER: GALN-SA9C-735-U-T1

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P459515

CATALOG NUMBER: GALN-SA9C-735-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	29633.5	0.0	29633.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	29633.5	0.0	29633.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	59267.0	0.0	59267.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1046.1	1.8
10°-20°	3346.8	5.6
20°-30°	5601.7	9.5
30°-40°	7588.9	12.8
40°-50°	9612.6	16.2
50°-60°	12008.5	20.3
60°-70°	14115.5	23.8
70°-80°	5399.8	9.1
80°-90°	547.1	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°	59267.0	100.0
0°-180°	59267.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P459515

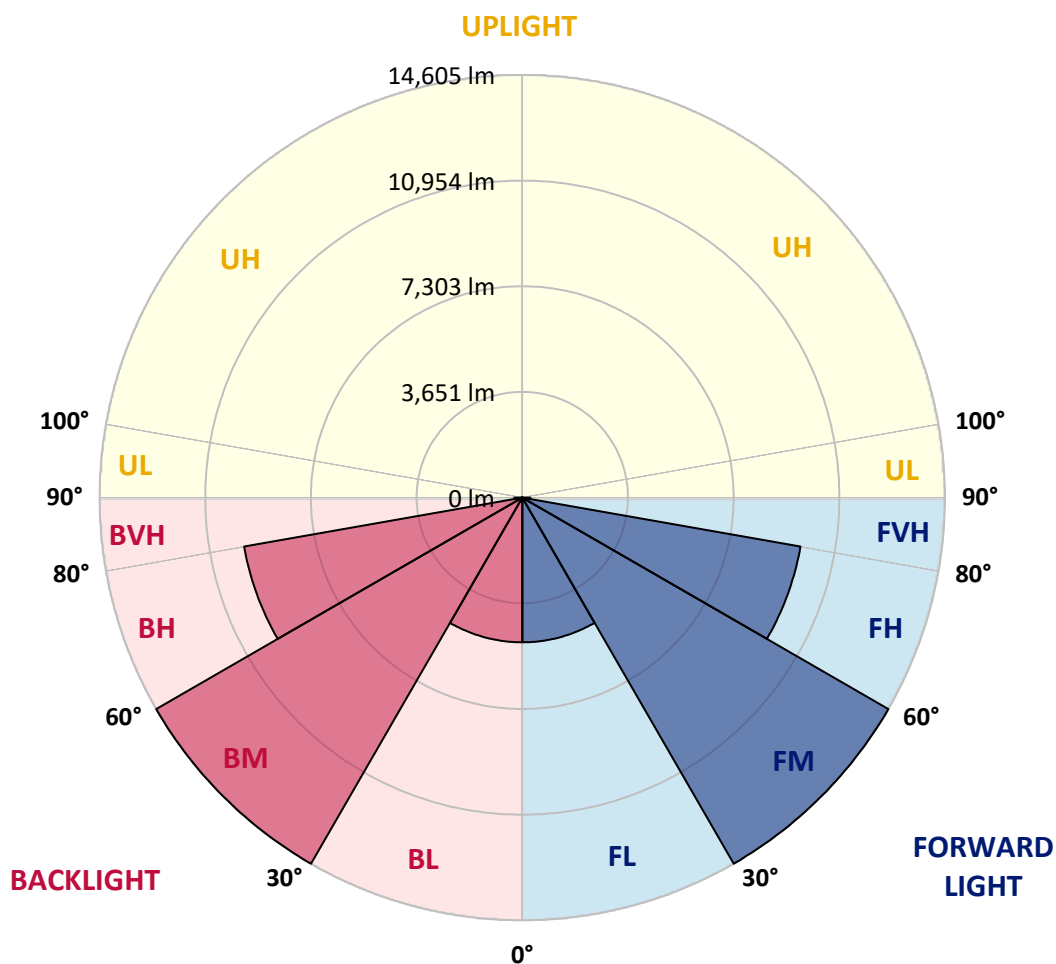
CATALOG NUMBER: GALN-SA9C-735-U-T1

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4997.3	8.4			
FM	(30°-60°)	14605.0	24.6			
FH	(60°-80°)	9757.6	16.5			G4/12000
FVH	(80°-90°)	273.5	0.5			G3/500
BL	(0°-30°)	4997.3	8.4	B4/5000		
BM	(30°-60°)	14605.0	24.6	B5		
BH	(60°-80°)	9757.6	16.5	B5		G5
BVH	(80°-90°)	273.5	0.5			G3/500
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: P459515

CATALOG NUMBER: GALN-SA9C-735-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	10492.1	10492.1	10492.1	10492.1	10492.1	10492.1	10492.1	10492.1	10492.1	10492.1	10492.1
2.5°	10626.7	10620.1	10623.4	10620.1	10629.9	10623.4	10584.0	10551.2	10524.9	10528.2	10518.4
5°	10853.1	10856.4	10859.7	10843.3	10866.2	10853.1	10790.8	10738.2	10685.7	10666.0	10659.5
7.5°	11040.2	11056.6	11066.4	11082.8	11122.2	11122.2	11089.4	11013.9	10899.1	10833.4	10830.1
10°	11227.2	11240.4	11269.9	11322.4	11388.1	11450.4	11437.3	11335.5	11187.9	11076.3	11050.0
12.5°	11292.9	11309.3	11407.7	11558.7	11706.4	11827.8	11827.8	11745.8	11555.4	11384.8	11335.5
15°	11063.1	11092.7	11269.9	11591.5	11978.8	12244.6	12303.7	12188.8	11985.4	11722.8	11663.7
17.5°	10607.0	10679.2	10938.4	11414.3	12057.6	12608.9	12779.6	12723.8	12461.2	12126.5	12057.6
20°	10118.0	10196.7	10472.4	11102.5	11991.9	12822.2	13317.8	13330.9	13006.0	12520.3	12418.6
22.5°	9579.7	9638.8	9993.3	10731.7	11795.0	12871.5	13780.5	14007.0	13567.2	12914.1	12769.7
25°	8975.9	9041.5	9412.4	10209.9	11424.2	12815.7	14203.9	14702.7	14154.7	13334.2	13150.4
27.5°	8398.3	8424.5	8821.6	9632.3	10935.2	12671.3	14515.7	15342.7	14804.5	13682.1	13449.1
30°	7843.6	7906.0	8257.2	9057.9	10374.0	12389.0	14784.8	16071.3	15503.5	14046.4	13747.7
32.5°	7256.2	7331.7	7712.4	8523.0	9812.8	11965.7	14948.9	16868.8	16478.2	14637.1	14318.8
35°	6691.7	6740.9	7124.9	7912.6	9264.7	11473.4	14978.4	17768.0	17735.2	15533.0	15109.7
37.5°	6114.1	6186.3	6573.6	7328.4	8683.8	10951.6	14830.7	18723.0	19251.4	16776.9	16320.7
40°	5559.5	5621.8	6002.5	6763.9	8024.1	10314.9	14479.6	19596.0	21020.3	18056.8	17410.3
42.5°	4955.6	4972.0	5388.8	6163.3	7377.6	9576.5	13974.2	20373.8	22992.7	19773.2	18969.1
45°	4269.7	4312.4	4699.6	5461.0	6635.9	8749.4	13288.2	21017.0	25493.5	22152.6	21056.4
47.5°	3583.8	3619.9	3974.3	4725.9	5825.3	7801.0	12231.5	21581.5	28059.9	25175.1	23737.7
50°	2914.3	2934.0	3222.8	3889.0	4912.9	6803.3	10922.0	21762.0	30961.1	29454.7	27620.1
52.5°	2303.9	2333.4	2553.3	3075.1	3938.2	5625.1	9507.5	21315.7	34347.9	34528.4	31942.3
55°	1867.4	1877.2	2041.3	2425.3	3078.4	4391.1	7801.0	20071.9	37990.8	41029.8	37731.5
57.5°	1608.1	1614.7	1706.6	1919.9	2369.5	3311.4	6051.7	17718.8	41262.8	48647.0	44406.8
60°	1460.4	1463.7	1516.2	1640.9	1877.2	2540.2	4335.3	14397.5	44492.2	57124.0	52703.4
62.5°	1368.5	1368.5	1404.6	1473.6	1588.4	1949.4	3140.7	10387.1	46704.1	65725.8	62929.7
65°	1279.9	1279.9	1306.2	1355.4	1417.8	1595.0	2320.3	6773.8	46648.3	71990.9	73215.0
67.5°	1178.2	1178.2	1197.9	1247.1	1283.2	1371.8	1791.9	4437.1	41902.8	71853.0	78827.0
70°	1056.8	1056.8	1083.0	1125.7	1155.2	1211.0	1414.5	3035.7	30783.8	61351.1	70103.8
72.5°	935.3	938.6	955.0	997.7	1020.7	1053.5	1174.9	2126.6	18883.8	41774.8	49017.9
75°	800.8	807.3	823.7	866.4	886.1	899.2	991.1	1516.2	9553.5	22523.4	25644.4
77.5°	646.5	659.7	669.5	715.4	728.6	748.3	817.2	1096.1	4194.2	8093.1	8165.3
80°	472.6	489.0	518.5	561.2	571.0	584.2	623.6	777.8	1900.2	3695.4	4013.7
82.5°	347.9	370.9	334.7	390.5	390.5	374.1	439.8	521.8	873.0	3659.3	4378.0
85°	190.3	193.6	173.9	200.2	213.3	210.0	233.0	256.0	423.4	2441.7	2517.2
87.5°	45.9	49.2	52.5	62.4	75.5	75.5	82.0	72.2	137.8	790.9	452.9
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)