

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: P459225

Luminaire Tested: **GALN-SA7A-735-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459225  
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-SA7A-735-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29620 lumens  
Efficiency: N/A  
Efficacy: 137.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

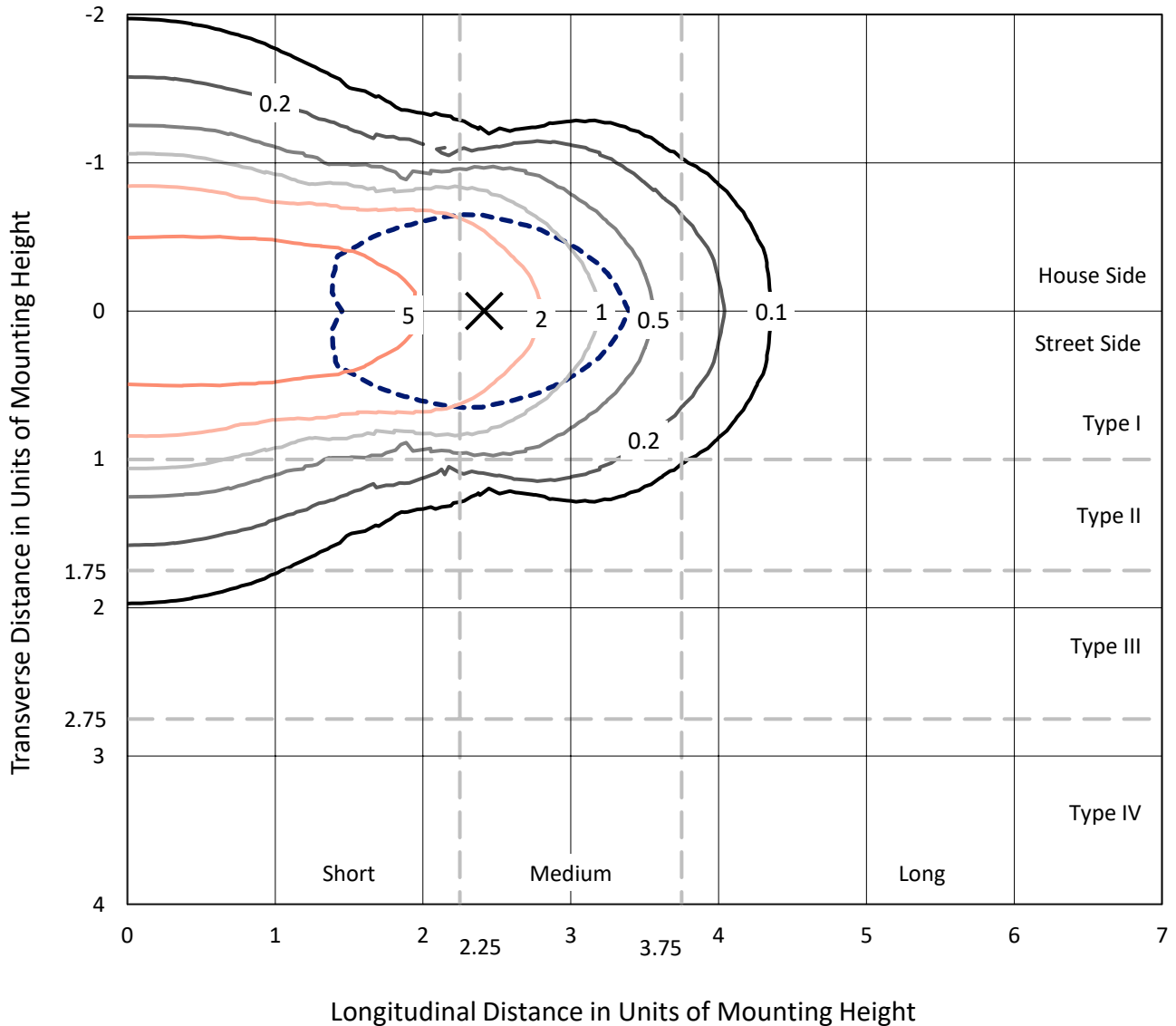
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

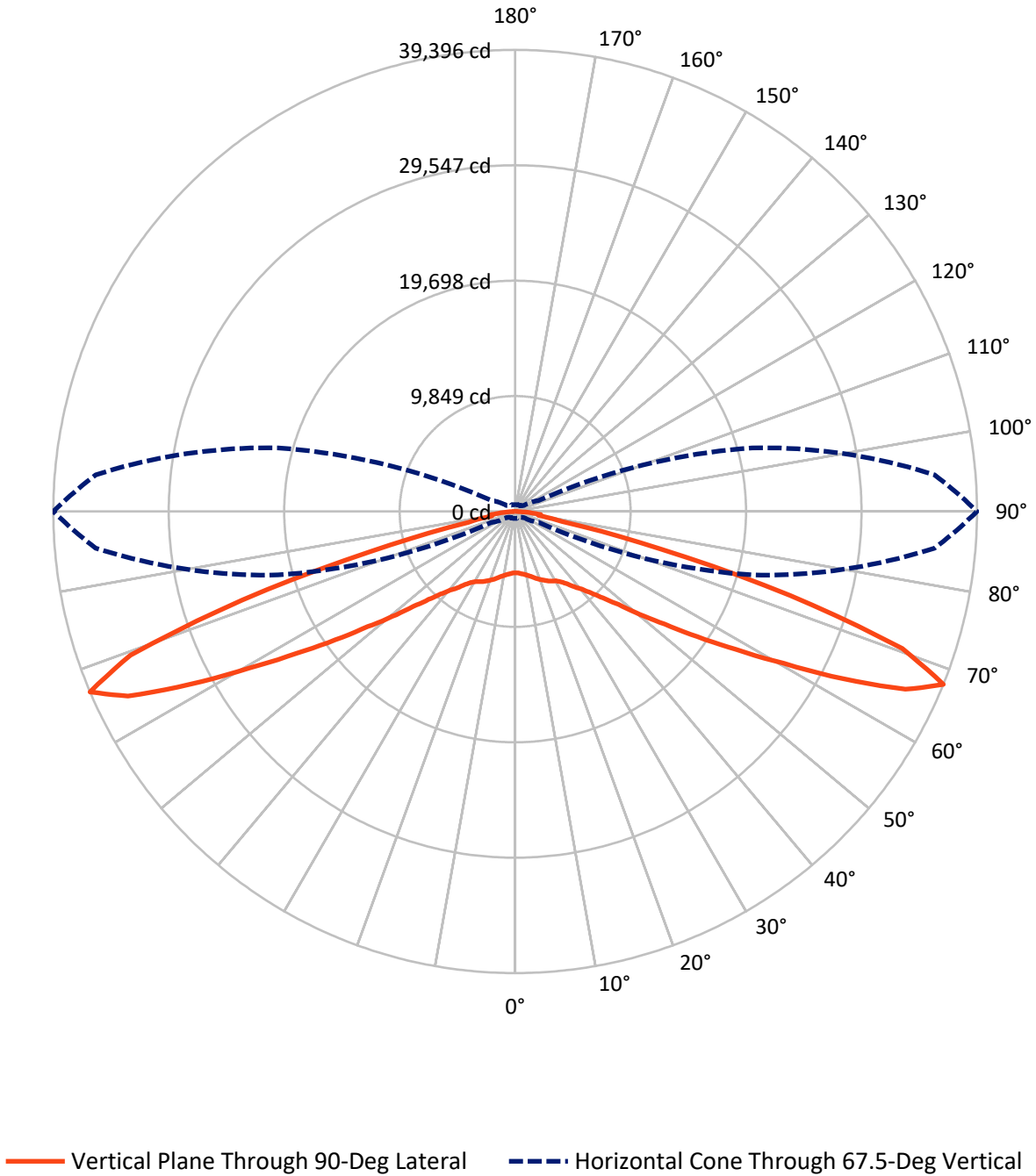
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14810.0	0.0	14810.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14810.0	0.0	14810.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29620.0	0.0	29620.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	522.8	1.8
10°-20°	1672.7	5.6
20°-30°	2799.6	9.5
30°-40°	3792.7	12.8
40°-50°	4804.1	16.2
50°-60°	6001.5	20.3
60°-70°	7054.5	23.8
70°-80°	2698.7	9.1
80°-90°	273.4	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°	29620.0	100.0
0°-180°	29620.0	100.0



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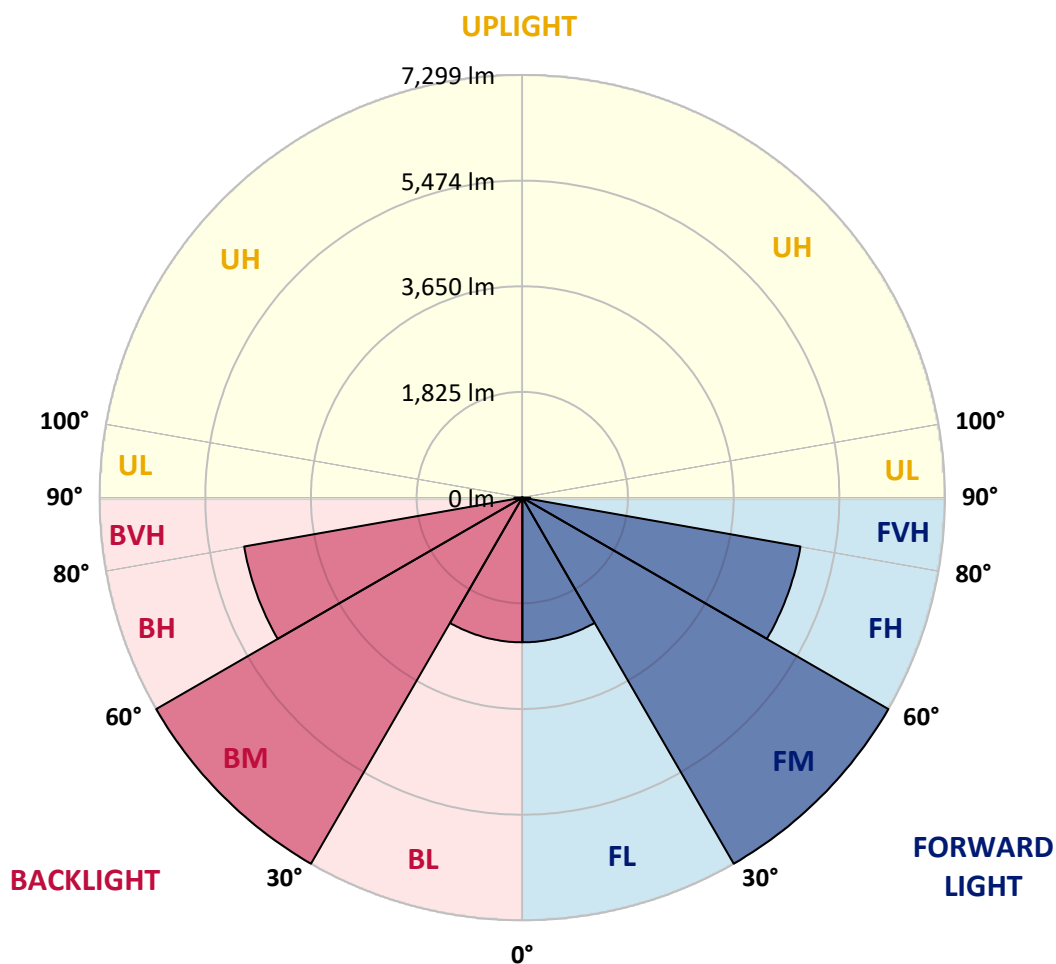
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2497.5	8.4			
FM (30°-60°)	7299.2	24.6			
FH (60°-80°)	4876.6	16.5			G2/5000
FVH (80°-90°)	136.7	0.5			G2/225
BL (0°-30°)	2497.5	8.4	B3/2500		
BM (30°-60°)	7299.2	24.6	B4/8500		
BH (60°-80°)	4876.6	16.5	B4/5000		G4/5000
BVH (80°-90°)	136.7	0.5			G2/225
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5243.7	5243.7	5243.7	5243.7	5243.7	5243.7	5243.7	5243.7	5243.7	5243.7	5243.7
2.5°	5310.9	5307.6	5309.3	5307.6	5312.5	5309.3	5289.6	5273.2	5260.1	5261.7	5256.8
5°	5424.1	5425.7	5427.4	5419.2	5430.6	5424.1	5392.9	5366.7	5340.4	5330.6	5327.3
7.5°	5517.6	5525.8	5530.7	5538.9	5558.6	5558.6	5542.2	5504.5	5447.0	5414.2	5412.6
10°	5611.1	5617.6	5632.4	5658.6	5691.4	5722.6	5716.0	5665.2	5591.4	5535.6	5522.5
12.5°	5643.9	5652.1	5701.3	5776.7	5850.5	5911.2	5911.2	5870.2	5775.1	5689.8	5665.2
15°	5529.1	5543.8	5632.4	5793.1	5986.7	6119.5	6149.0	6091.6	5989.9	5858.7	5829.2
17.5°	5301.1	5337.2	5466.7	5704.6	6026.0	6301.6	6386.9	6359.0	6227.8	6060.5	6026.0
20°	5056.7	5096.0	5233.8	5548.7	5993.2	6408.2	6655.9	6662.4	6500.0	6257.3	6206.4
22.5°	4787.7	4817.2	4994.4	5363.4	5894.8	6432.8	6887.1	7000.3	6780.5	6454.1	6381.9
25°	4485.9	4518.7	4704.0	5102.6	5709.5	6404.9	7098.7	7348.0	7074.1	6664.1	6572.2
27.5°	4197.2	4210.3	4408.8	4813.9	5465.1	6332.7	7254.5	7667.9	7398.9	6837.9	6721.5
30°	3920.0	3951.2	4126.7	4526.9	5184.6	6191.7	7389.0	8032.0	7748.2	7020.0	6870.7
32.5°	3626.4	3664.2	3854.4	4259.6	4904.1	5980.1	7471.0	8430.5	8235.4	7315.2	7156.1
35°	3344.3	3368.9	3560.8	3954.5	4630.2	5734.1	7485.8	8879.9	8863.5	7763.0	7551.4
37.5°	3055.7	3091.7	3285.3	3662.5	4339.9	5473.3	7412.0	9357.2	9621.3	8384.6	8156.6
40°	2778.5	2809.6	2999.9	3380.4	4010.2	5155.1	7236.5	9793.5	10505.4	9024.3	8701.2
42.5°	2476.7	2484.9	2693.2	3080.3	3687.1	4786.1	6983.9	10182.3	11491.1	9882.1	9480.3
45°	2133.9	2155.2	2348.7	2729.3	3316.4	4372.7	6641.1	10503.7	12740.9	11071.2	10523.4
47.5°	1791.1	1809.1	1986.3	2361.9	2911.3	3898.7	6113.0	10785.8	14023.6	12581.8	11863.4
50°	1456.5	1466.3	1610.7	1943.6	2455.4	3400.1	5458.5	10876.0	15473.5	14720.6	13803.8
52.5°	1151.4	1166.2	1276.1	1536.9	1968.2	2811.3	4751.6	10653.0	17166.1	17256.4	15963.9
55°	933.3	938.2	1020.2	1212.1	1538.5	2194.6	3898.7	10031.4	18986.7	20505.6	18857.2
57.5°	803.7	807.0	852.9	959.5	1184.2	1654.9	3024.5	8855.3	20622.0	24312.4	22193.3
60°	729.9	731.5	757.8	820.1	938.2	1269.5	2166.7	7195.5	22235.9	28549.0	26339.7
62.5°	684.0	684.0	702.0	736.4	793.8	974.3	1569.7	5191.2	23341.4	32847.9	31450.5
65°	639.7	639.7	652.8	677.4	708.6	797.1	1159.6	3385.3	23313.5	35979.0	36590.8
67.5°	588.8	588.8	598.7	623.3	641.3	685.6	895.5	2217.5	20941.8	35910.1	39395.5
70°	528.1	528.1	541.3	562.6	577.3	605.2	706.9	1517.2	15384.9	30661.6	35035.9
72.5°	467.5	469.1	477.3	498.6	510.1	526.5	587.2	1062.8	9437.6	20877.9	24497.8
75°	400.2	403.5	411.7	433.0	442.8	449.4	495.3	757.8	4774.6	11256.6	12816.4
77.5°	323.1	329.7	334.6	357.6	364.1	374.0	408.4	547.8	2096.2	4044.7	4080.8
80°	236.2	244.4	259.1	280.5	285.4	292.0	311.6	388.7	949.7	1846.8	2005.9
82.5°	173.9	185.3	167.3	195.2	195.2	187.0	219.8	260.8	436.3	1828.8	2188.0
85°	95.1	96.8	86.9	100.1	106.6	105.0	116.5	127.9	211.6	1220.3	1258.0
87.5°	23.0	24.6	26.2	31.2	37.7	37.7	41.0	36.1	68.9	395.3	226.3
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)