

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: P532281

Luminaire Tested: **GALN-SA7C-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-827-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18777 lumens  
Efficiency: N/A  
Efficacy: 49.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

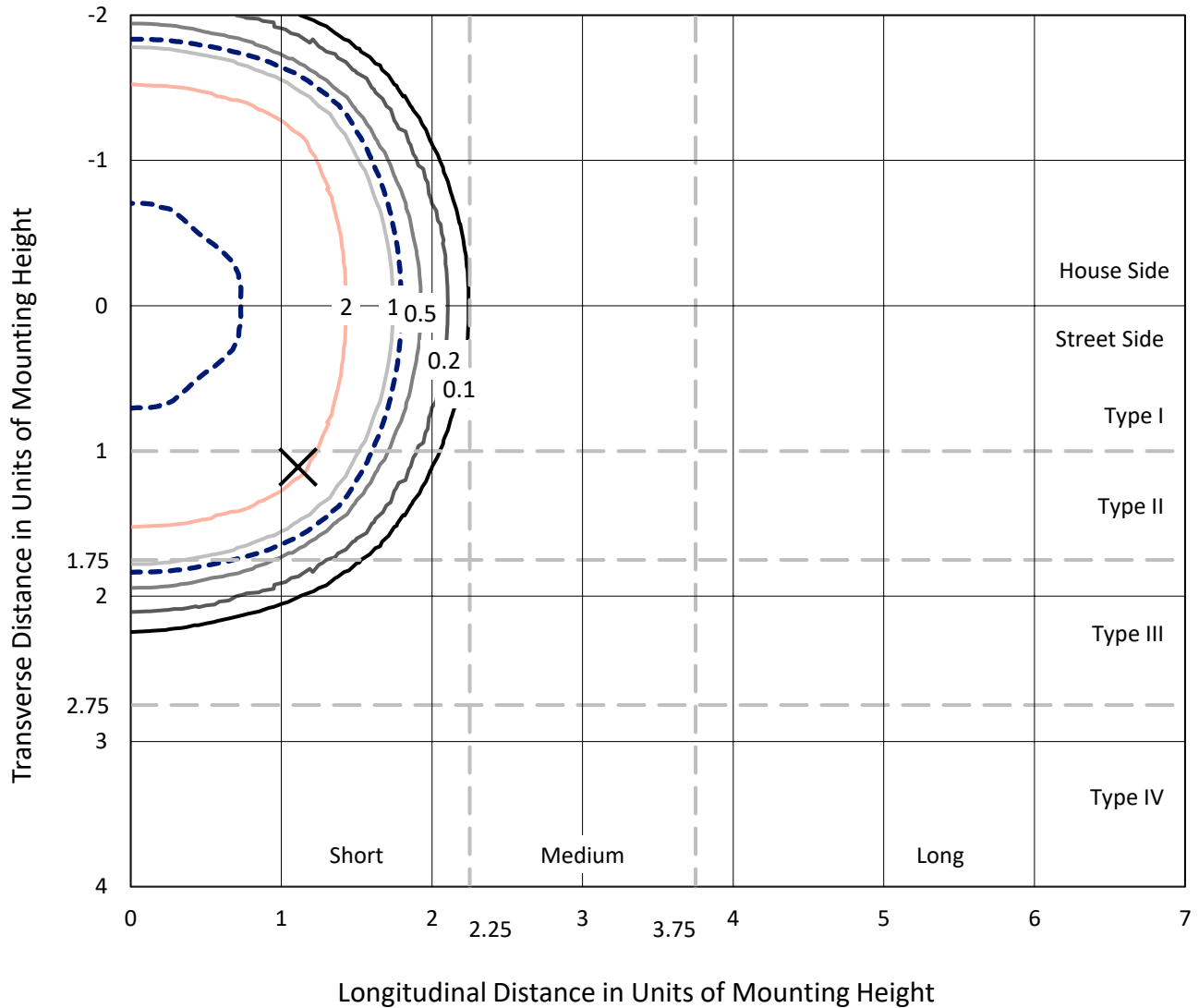
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

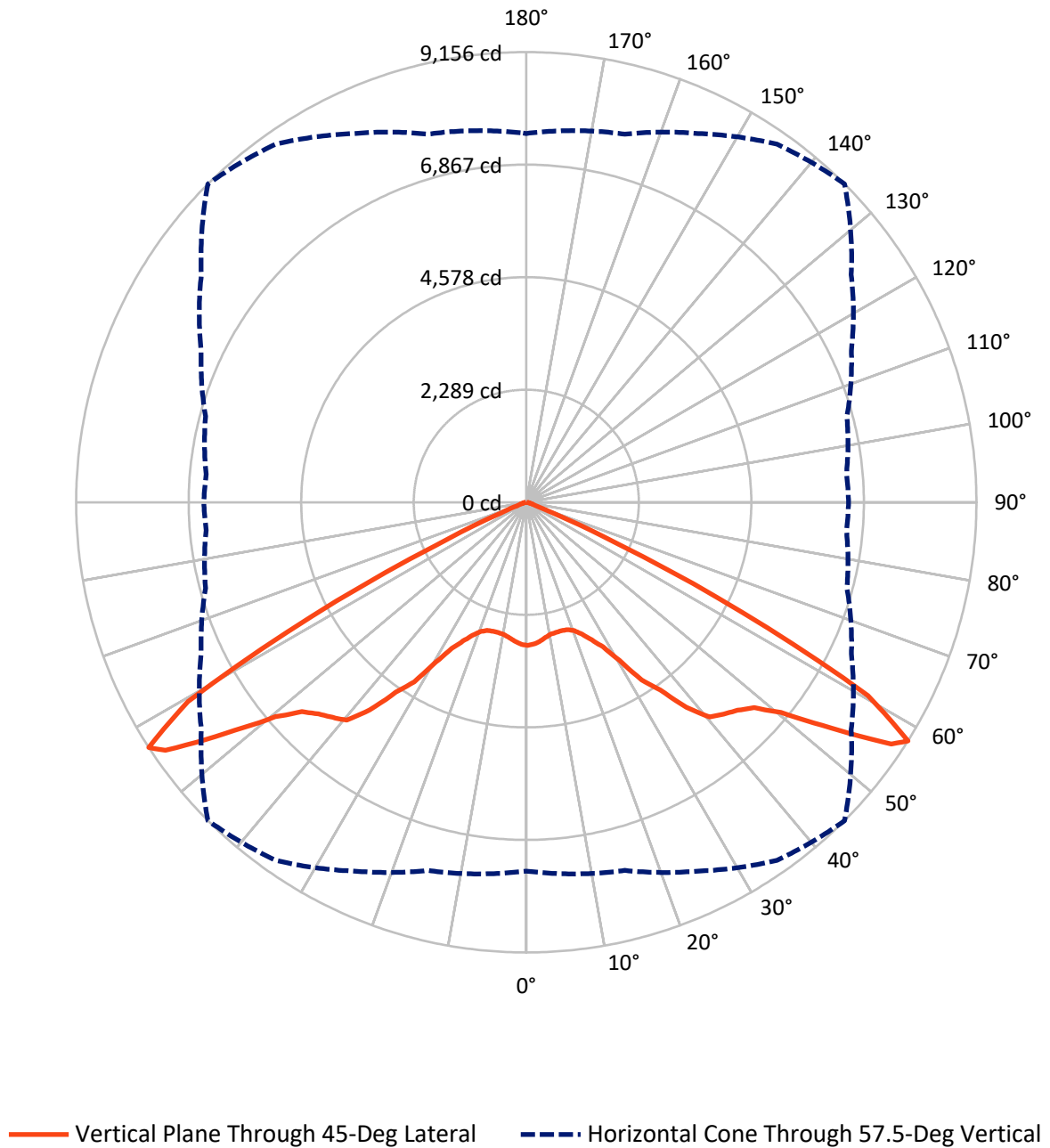
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - 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	9388.5	0.0	9388.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9388.5	0.0	9388.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18777.0	0.0	18777.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.6	1.4
10°-20°	773.6	4.1
20°-30°	1428.0	7.6
30°-40°	2808.3	15.0
40°-50°	4574.0	24.4
50°-60°	6523.1	34.7
60°-70°	2258.4	12.0
70°-80°	121.2	0.6
80°-90°	22.8	0.1
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°	18777.0	100.0
0°-180°	18777.0	100.0

**Coefficient of Utilization**



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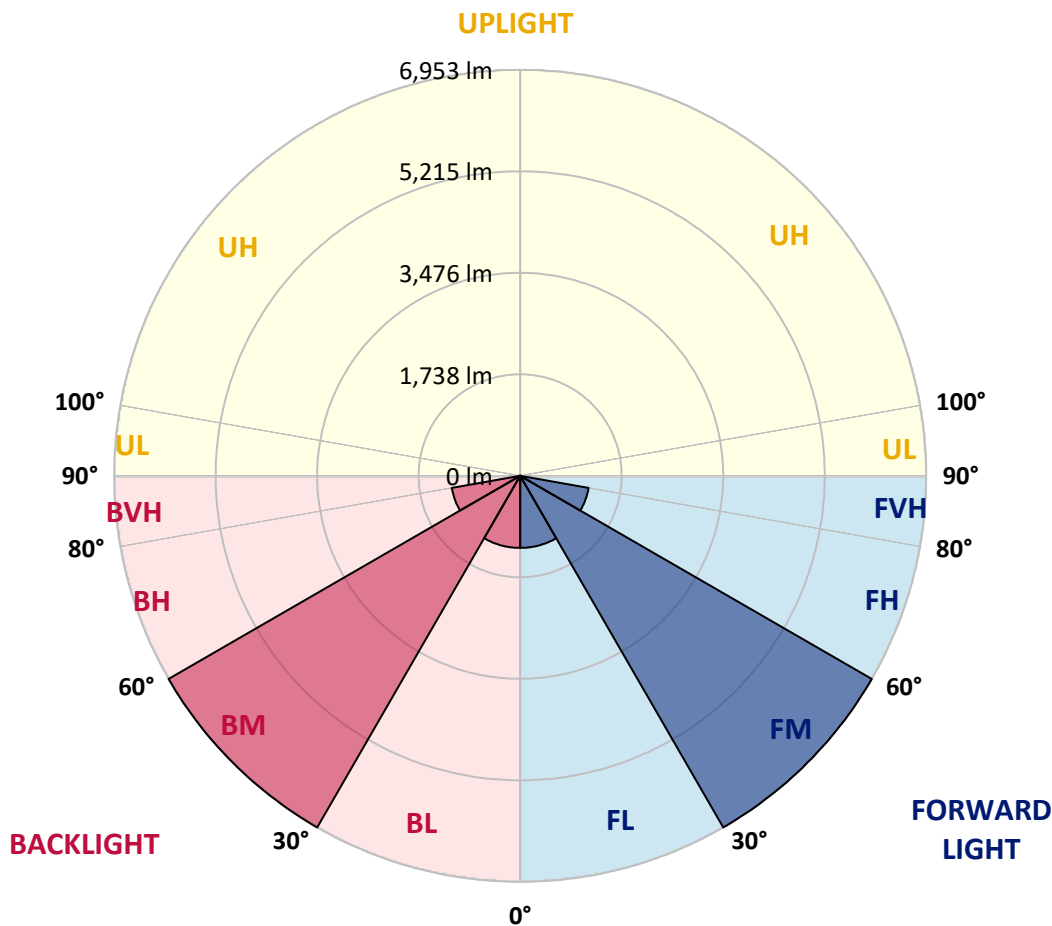
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.6	6.6			
FM (30°-60°)	6952.7	37.0			
FH (60°-80°)	1189.8	6.3			G1/1800
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1234.6	6.6	B3/2500		
BM (30°-60°)	6952.7	37.0	B4/8500		
BH (60°-80°)	1189.8	6.3	B3/2500		G1/1800
BVH (80°-90°)	11.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5	2912.5
2.5°	2904.7	2920.3	2900.8	2892.9	2889.0	2889.0	2877.3	2877.3	2873.4	2877.3	2861.6
5°	2857.7	2873.4	2873.4	2869.4	2846.0	2842.0	2830.3	2822.5	2826.4	2810.7	2822.5
7.5°	2810.7	2822.5	2806.8	2802.9	2795.1	2779.4	2775.5	2740.3	2744.2	2744.2	2752.0
10°	2802.9	2799.0	2775.5	2755.9	2732.4	2728.5	2716.8	2708.9	2708.9	2705.0	2716.8
12.5°	2802.9	2783.3	2779.4	2736.3	2697.2	2712.9	2681.5	2662.0	2689.4	2697.2	2712.9
15°	2799.0	2818.6	2752.0	2732.4	2705.0	2708.9	2681.5	2662.0	2677.6	2685.5	2697.2
17.5°	2822.5	2810.7	2791.2	2752.0	2740.3	2724.6	2689.4	2673.7	2673.7	2693.3	2697.2
20°	2885.1	2853.8	2814.6	2795.1	2806.8	2787.2	2744.2	2685.5	2701.1	2716.8	2728.5
22.5°	2943.8	2920.3	2892.9	2881.2	2947.7	2916.4	2842.0	2775.5	2752.0	2779.4	2799.0
25°	3057.4	3057.4	3006.5	3022.1	3096.5	3100.4	3014.3	2896.9	2881.2	2892.9	2900.8
27.5°	3288.3	3300.1	3257.0	3272.7	3304.0	3331.4	3257.0	3159.1	3123.9	3120.0	3131.7
30°	3538.9	3562.3	3558.4	3625.0	3715.0	3730.7	3621.1	3460.6	3354.9	3335.3	3351.0
32.5°	3867.7	3879.4	3871.6	3949.9	4192.6	4306.1	4020.4	3793.3	3652.4	3687.6	3652.4
35°	4486.2	4474.5	4388.3	4404.0	4603.6	4685.9	4411.8	4267.0	4200.4	4270.9	4255.2
37.5°	5018.6	4975.5	4905.1	5006.9	5214.3	5288.7	5002.9	4748.5	4627.1	4744.6	4795.5
40°	5468.8	5359.2	5261.3	5363.1	5641.0	5742.8	5323.9	5116.5	5069.5	5155.6	5265.2
42.5°	5848.5	5778.0	5648.9	5656.7	5840.7	5887.7	5551.0	5429.6	5382.7	5519.7	5574.5
45°	6118.6	6052.1	5930.7	5922.9	6063.8	6032.5	5731.1	5648.9	5676.3	5766.3	5793.7
47.5°	6255.6	6290.9	6220.4	6240.0	6314.4	6240.0	6001.2	6001.2	5938.5	5993.3	5965.9
50°	6651.0	6541.4	6631.4	6631.4	6709.7	6717.6	6478.8	6392.6	6224.3	6130.4	6130.4
52.5°	7112.9	7120.8	7156.0	7285.2	7418.3	7531.8	7191.2	6823.3	6541.4	6420.0	6404.4
55°	7492.7	7571.0	7711.9	7954.6	8338.2	8494.8	7907.6	7250.0	6905.5	6717.6	6678.4
56°	7700.1	7625.8	7868.5	8201.2	8702.3	8905.9	8025.1	7336.1	6956.4	6745.0	6741.0
57.5°	7500.5	7582.7	7751.0	8275.6	8890.2	9156.4	8068.1	7296.9	6752.8	6537.5	6557.1
60°	5922.9	6001.2	6228.2	6815.4	7778.4	7985.9	6827.2	6016.8	5531.4	5222.2	5226.1
62.5°	3351.0	3409.7	3585.8	4130.0	4728.9	4928.6	4255.2	3715.0	3378.4	3206.1	3151.3
65°	1233.1	1209.6	1237.0	1515.0	1883.0	2051.3	1769.4	1495.4	1319.2	1256.6	1233.1
67.5°	461.9	426.7	399.3	426.7	536.3	567.6	520.7	434.5	407.1	418.9	426.7
70°	285.8	270.1	215.3	203.6	199.6	195.7	207.5	219.2	250.5	293.6	301.4
72.5°	199.6	187.9	152.7	144.8	137.0	133.1	152.7	168.3	195.7	227.1	231.0
75°	78.3	82.2	78.3	86.1	90.0	94.0	109.6	121.4	133.1	133.1	129.2
77.5°	15.7	15.7	23.5	31.3	39.1	50.9	74.4	86.1	90.0	86.1	74.4
80°	0.0	0.0	7.8	15.7	31.3	43.1	66.5	74.4	82.2	74.4	58.7
82.5°	0.0	0.0	7.8	19.6	31.3	39.1	62.6	78.3	90.0	82.2	62.6
85°	0.0	0.0	7.8	15.7	23.5	27.4	27.4	19.6	19.6	11.7	7.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)