

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: P455760

Luminaire Tested: **GALN-SA7A-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455760  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27880 lumens  
Efficiency: N/A  
Efficacy: 129.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

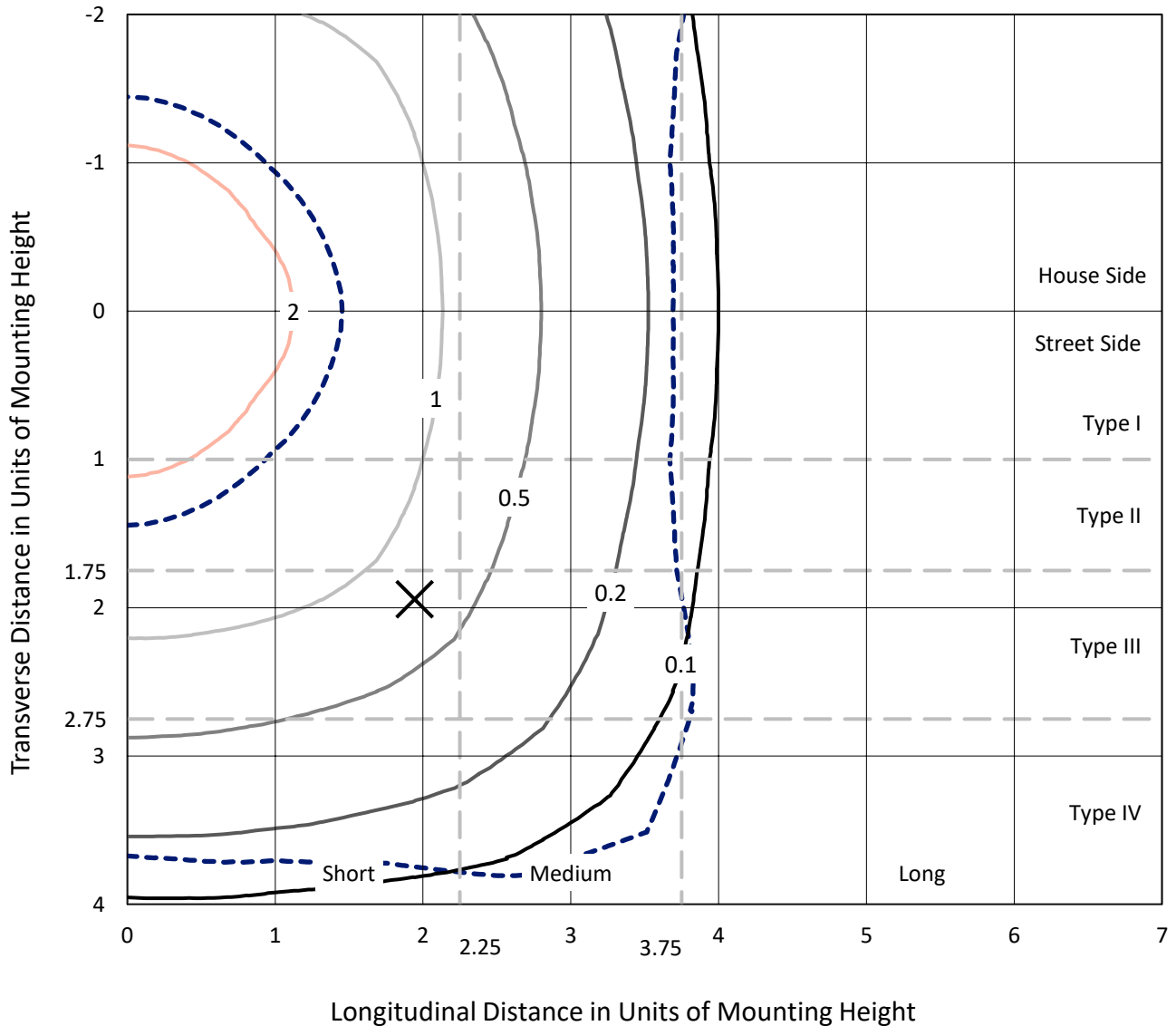
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

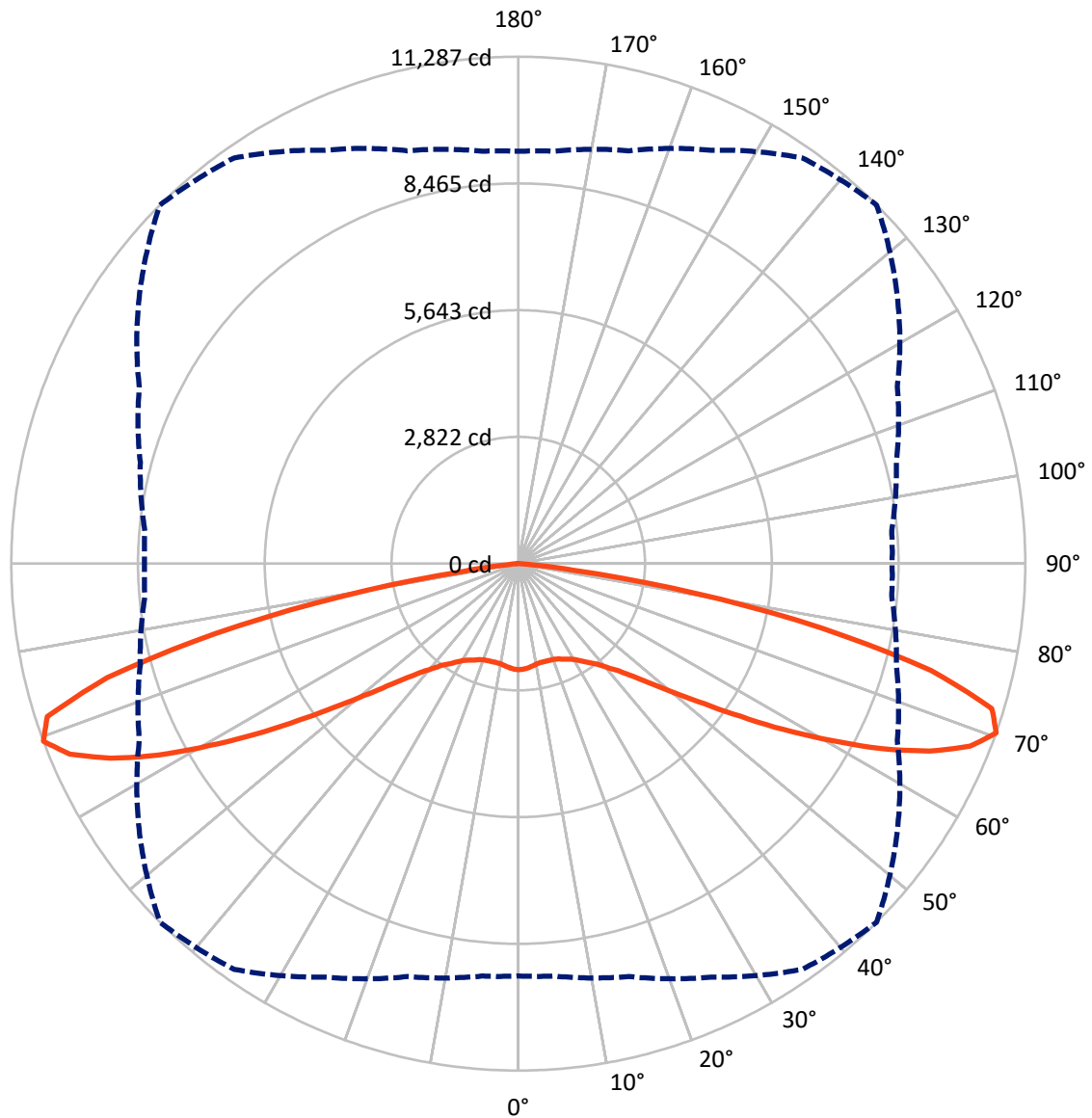
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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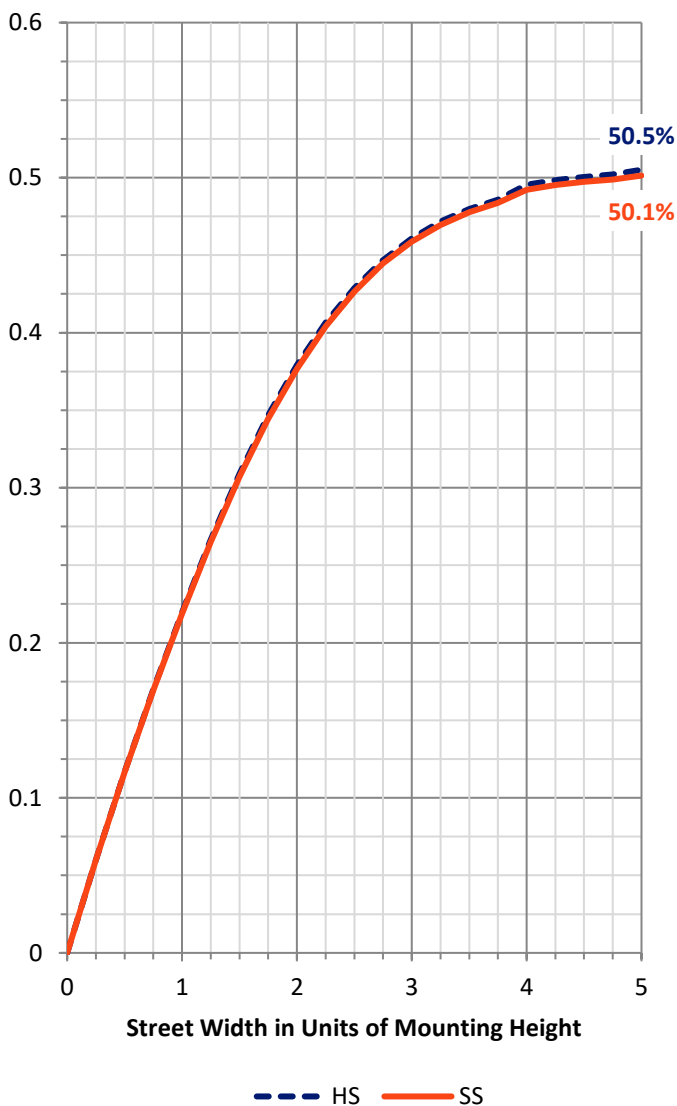
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13940.0	0.0	13940.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13940.0	0.0	13940.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27880.0	0.0	27880.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.7	0.8
10°-20°	646.2	2.3
20°-30°	1101.0	3.9
30°-40°	1706.6	6.1
40°-50°	2872.4	10.3
50°-60°	5226.2	18.7
60°-70°	8847.8	31.7
70°-80°	6848.6	24.6
80°-90°	410.4	1.5
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°	27880.0	100.0
0°-180°	27880.0	100.0



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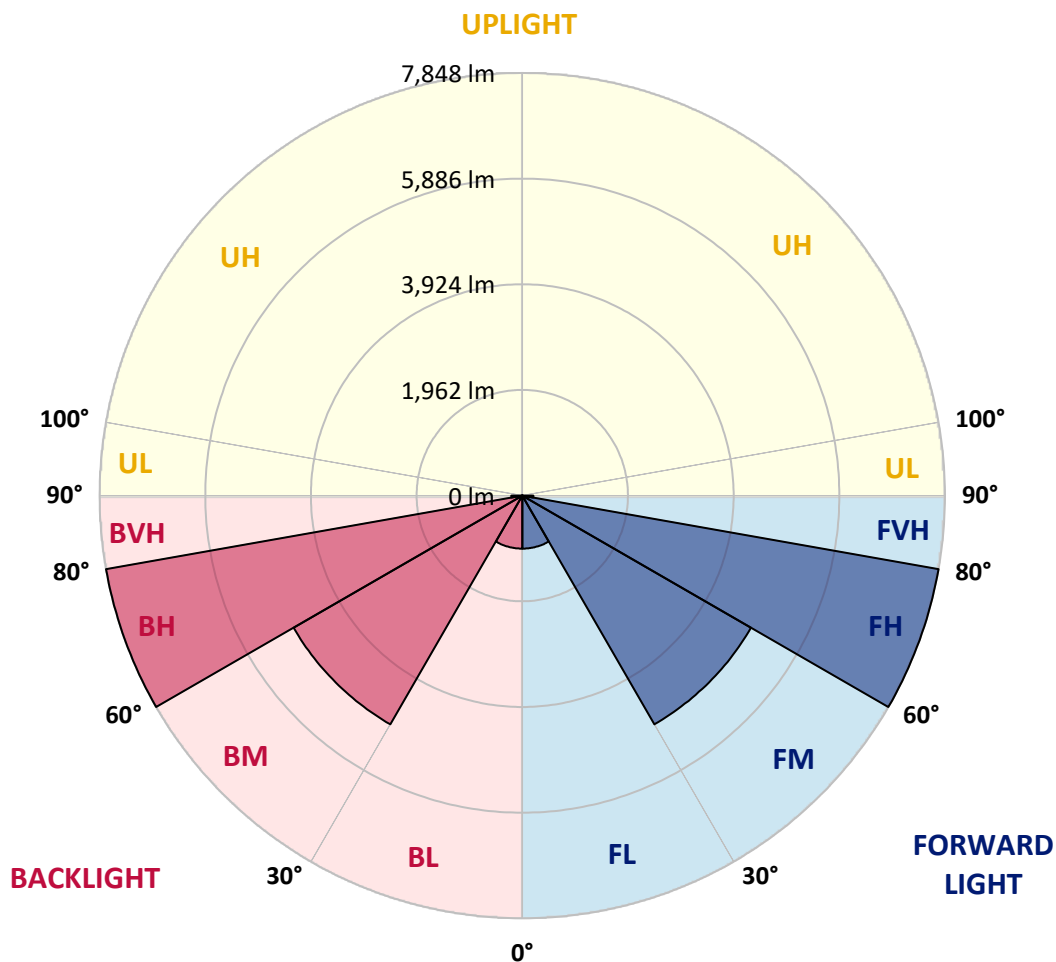
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	984.0	3.5			
FM (30°-60°)	4902.6	17.6			
FH (60°-80°)	7848.2	28.1			G4/12000
FVH (80°-90°)	205.2	0.7			G2/225
BL (0°-30°)	984.0	3.5	B2/1000		
BM (30°-60°)	4902.6	17.6	B3/5000		
BH (60°-80°)	7848.2	28.1	B5		G4/12000
BVH (80°-90°)	205.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4	2360.4
2.5°	2354.5	2356.0	2356.0	2353.0	2351.5	2351.5	2350.1	2350.1	2354.5	2356.0	2357.4
5°	2333.9	2333.9	2333.9	2332.4	2329.5	2329.5	2326.5	2326.5	2328.0	2332.4	2329.5
7.5°	2305.9	2308.8	2308.8	2303.0	2298.5	2298.5	2297.1	2298.5	2300.0	2304.4	2303.0
10°	2297.1	2298.5	2291.2	2280.9	2273.5	2269.1	2270.6	2273.5	2280.9	2283.8	2285.3
12.5°	2303.0	2303.0	2289.7	2275.0	2261.7	2255.8	2254.4	2264.7	2277.9	2286.8	2289.7
15°	2310.3	2307.4	2291.2	2272.0	2258.8	2257.3	2255.8	2263.2	2282.3	2300.0	2301.5
17.5°	2314.7	2313.3	2292.6	2269.1	2261.7	2261.7	2260.3	2266.1	2286.8	2308.8	2310.3
20°	2329.5	2325.0	2301.5	2276.5	2270.6	2273.5	2269.1	2276.5	2298.5	2325.0	2330.9
22.5°	2358.9	2354.5	2330.9	2305.9	2303.0	2303.0	2301.5	2308.8	2332.4	2360.4	2364.8
25°	2394.3	2389.8	2367.7	2350.1	2353.0	2358.9	2356.0	2357.4	2376.6	2400.1	2407.5
27.5°	2441.4	2434.0	2414.9	2400.1	2409.0	2409.0	2409.0	2407.5	2419.3	2441.4	2448.7
30°	2498.8	2495.9	2475.2	2473.8	2481.1	2473.8	2473.8	2475.2	2476.7	2497.3	2504.7
32.5°	2573.9	2568.0	2557.7	2554.8	2575.4	2581.3	2560.6	2541.5	2551.8	2572.4	2576.8
35°	2697.6	2688.7	2674.0	2657.8	2674.0	2702.0	2657.8	2643.1	2669.6	2697.6	2700.5
37.5°	2865.4	2861.0	2837.5	2808.0	2806.5	2836.0	2790.3	2788.9	2838.9	2872.8	2877.2
40°	3076.0	3080.4	3051.0	3023.0	3008.3	3031.8	2996.5	3009.7	3058.3	3096.6	3093.7
42.5°	3372.0	3355.8	3310.1	3283.6	3267.4	3258.6	3249.8	3270.4	3324.9	3366.1	3398.5
45°	3718.0	3712.1	3654.7	3622.3	3587.0	3573.7	3570.8	3607.6	3673.8	3723.9	3728.3
47.5°	4109.7	4096.4	4059.6	4025.8	4012.5	3996.3	3981.6	4009.6	4075.8	4111.2	4121.5
50°	4513.1	4516.1	4516.1	4510.2	4523.5	4526.4	4486.6	4497.0	4533.8	4530.8	4527.9
52.5°	4974.0	4990.2	5066.8	5074.2	5137.5	5180.2	5108.0	5065.3	5052.1	4972.6	4978.5
55°	5515.9	5530.6	5645.5	5760.3	5931.1	6003.3	5851.6	5719.1	5624.9	5504.1	5510.0
57.5°	6191.8	6199.1	6308.1	6529.0	6799.9	6969.2	6702.7	6440.6	6249.2	6134.3	6088.7
60°	6919.2	6926.5	7085.6	7355.0	7776.2	7982.3	7652.5	7224.0	6982.5	6807.3	6819.0
62.5°	7792.4	7821.8	7964.6	8335.7	8846.7	9077.8	8640.5	8067.7	7740.8	7522.9	7531.7
65°	8727.4	8777.4	8933.5	9341.4	9812.6	10061.4	9525.5	8864.3	8457.9	8191.4	8219.4
67.5°	9334.0	9378.2	9603.5	10054.1	10641.6	10847.8	10155.7	9385.6	8877.6	8559.5	8500.6
70°	9179.4	9216.2	9516.6	10155.7	11025.9	11286.5	10305.9	9309.0	8711.2	8344.5	8321.0
72.5°	8103.1	8026.5	8465.3	9382.6	10587.1	11024.4	9833.2	8502.1	7749.7	7372.7	7328.5
75°	5370.1	5536.5	6184.4	7265.2	8957.1	9499.0	8393.1	6826.4	5879.6	5566.0	5517.4
77.5°	1795.0	1923.1	2498.8	4118.5	6106.4	6920.7	6115.2	4464.6	3158.5	2544.4	2556.2
80°	475.6	469.7	608.1	1132.3	2638.7	4008.1	3071.6	1512.2	827.5	599.3	568.4
82.5°	170.8	191.4	245.9	313.6	699.4	1245.7	879.1	424.1	310.7	229.7	222.3
85°	75.1	73.6	106.0	125.2	175.2	232.7	206.1	179.6	157.6	104.5	97.2
87.5°	16.2	16.2	25.0	19.1	30.9	30.9	38.3	45.6	47.1	30.9	25.0
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)