

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: P648031

Luminaire Tested: **GALN-SA7A-835-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648031  
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-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 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: 26102.9 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

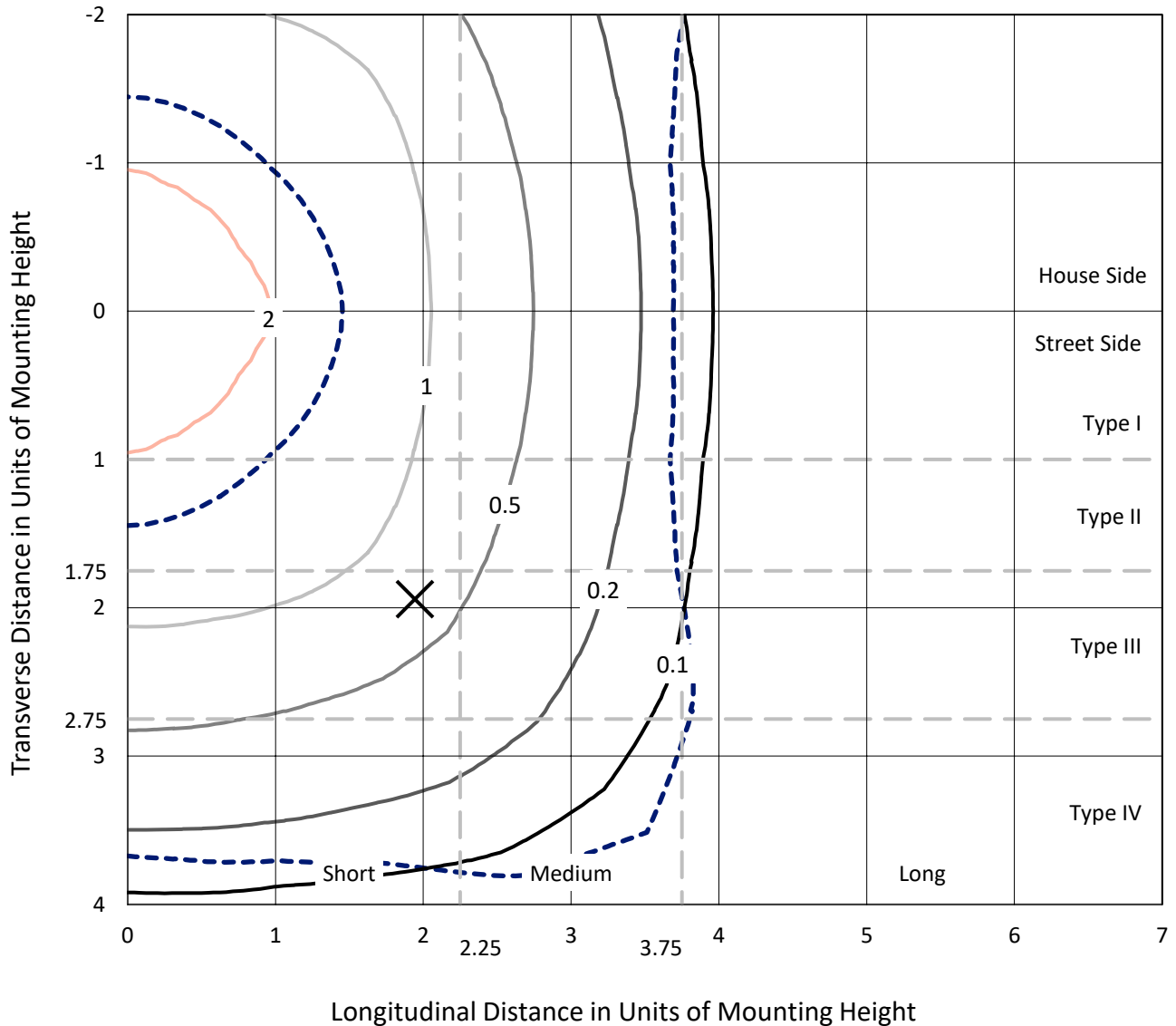
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

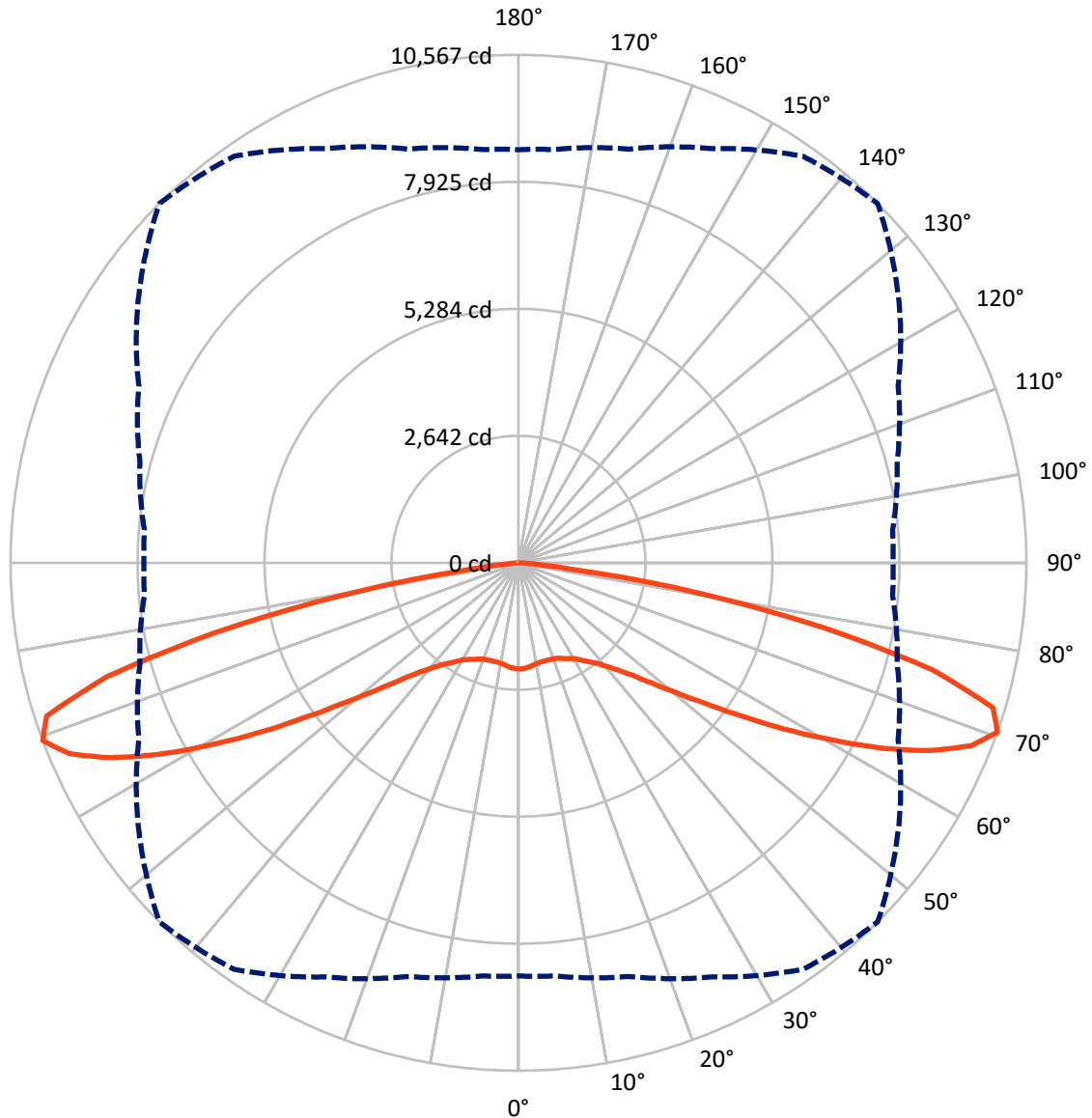
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 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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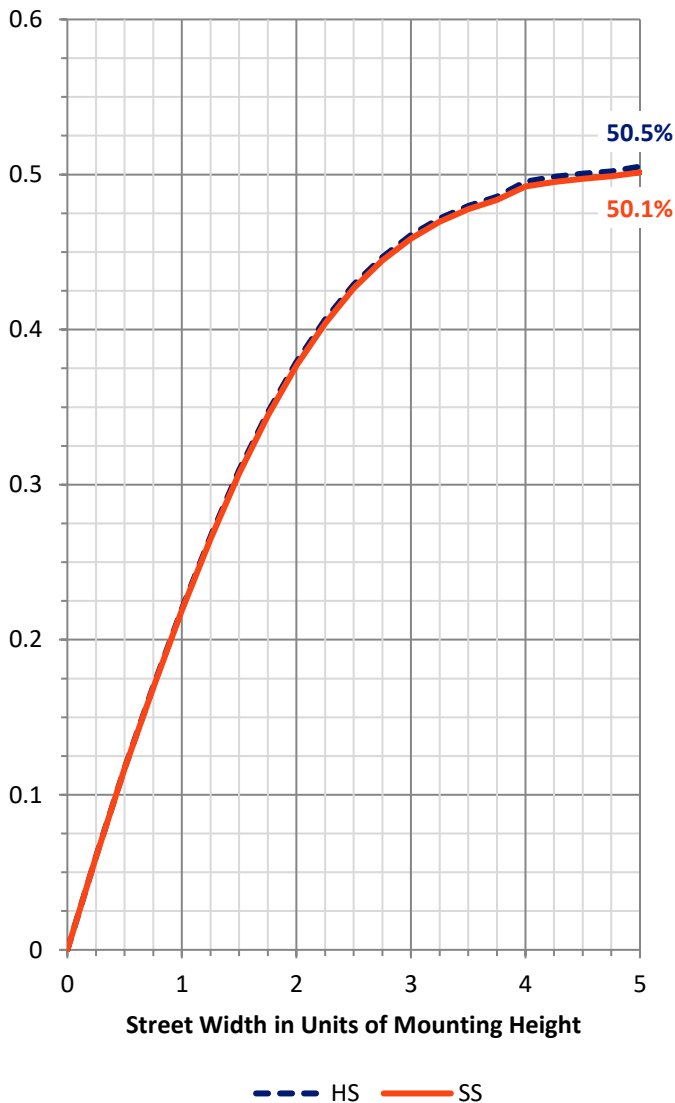
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13051.4	0.0	13051.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13051.4	0.0	13051.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26102.9	0.0	26102.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.7	0.8
10°-20°	605.0	2.3
20°-30°	1030.8	3.9
30°-40°	1597.8	6.1
40°-50°	2689.3	10.3
50°-60°	4893.1	18.7
60°-70°	8283.9	31.7
70°-80°	6412.0	24.6
80°-90°	384.2	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°	26102.9	100.0
0°-180°	26102.9	100.0



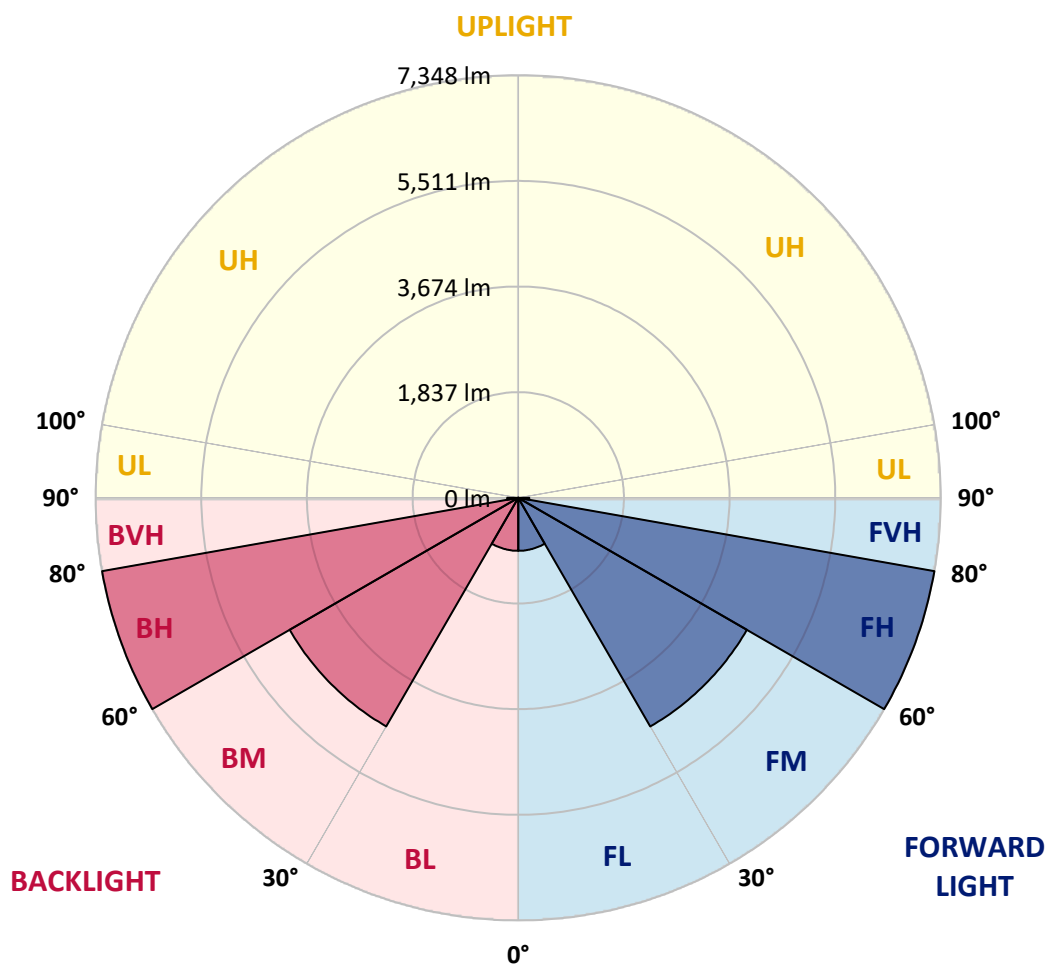
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	921.3	3.5			
FM (30°-60°)	4590.1	17.6			
FH (60°-80°)	7348.0	28.2			G3/7500
FVH (80°-90°)	192.1	0.7			G2/225
BL (0°-30°)	921.3	3.5	B2/1000		
BM (30°-60°)	4590.1	17.6	B3/5000		
BH (60°-80°)	7348.0	28.2	B5		G3/7500
BVH (80°-90°)	192.1	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9	2209.9
2.5°	2204.4	2205.8	2205.8	2203.0	2201.6	2201.6	2200.3	2200.3	2204.4	2205.8	2207.2
5°	2185.1	2185.1	2185.1	2183.7	2181.0	2181.0	2178.2	2178.2	2179.6	2183.7	2181.0
7.5°	2158.9	2161.7	2161.7	2156.1	2152.0	2152.0	2150.7	2152.0	2153.4	2157.6	2156.1
10°	2150.7	2152.0	2145.1	2135.5	2128.6	2124.4	2125.8	2128.6	2135.5	2138.2	2139.6
12.5°	2156.1	2156.1	2143.8	2130.0	2117.5	2112.1	2110.7	2120.3	2132.7	2141.0	2143.8
15°	2163.0	2160.3	2145.1	2127.2	2114.8	2113.4	2112.1	2119.0	2136.9	2153.4	2154.8
17.5°	2167.2	2165.8	2146.5	2124.4	2117.5	2117.5	2116.2	2121.7	2141.0	2161.7	2163.0
20°	2181.0	2176.8	2154.8	2131.3	2125.8	2128.6	2124.4	2131.3	2152.0	2176.8	2182.4
22.5°	2208.5	2204.4	2182.4	2158.9	2156.1	2156.1	2154.8	2161.7	2183.7	2209.9	2214.1
25°	2241.7	2237.5	2216.8	2200.3	2203.0	2208.5	2205.8	2207.2	2225.1	2247.1	2254.0
27.5°	2285.7	2278.8	2260.9	2247.1	2255.4	2255.4	2255.4	2254.0	2265.1	2285.7	2292.6
30°	2339.5	2336.8	2317.4	2316.1	2323.0	2316.1	2316.1	2317.4	2318.9	2338.1	2345.0
32.5°	2409.8	2404.3	2394.6	2391.9	2411.2	2416.7	2397.4	2379.5	2389.2	2408.4	2412.6
35°	2525.6	2517.3	2503.6	2488.4	2503.6	2529.8	2488.4	2474.6	2499.4	2525.6	2528.4
37.5°	2682.8	2678.6	2656.6	2629.0	2627.7	2655.2	2612.5	2611.1	2658.0	2689.7	2693.8
40°	2880.0	2884.1	2856.5	2830.3	2816.5	2838.6	2805.5	2817.9	2863.4	2899.2	2896.5
42.5°	3157.1	3141.9	3099.1	3074.3	3059.2	3050.9	3042.6	3061.9	3112.9	3151.5	3181.9
45°	3481.0	3475.5	3421.7	3391.4	3358.3	3345.9	3343.2	3377.6	3439.6	3486.5	3490.7
47.5°	3847.7	3835.3	3800.8	3769.1	3756.8	3741.6	3727.8	3754.0	3816.0	3849.1	3858.8
50°	4225.5	4228.2	4228.2	4222.7	4235.1	4237.9	4200.6	4210.3	4244.8	4242.0	4239.2
52.5°	4657.0	4672.2	4743.8	4750.7	4810.0	4850.0	4782.4	4742.5	4730.0	4655.6	4661.1
55°	5164.3	5178.1	5285.6	5393.1	5553.1	5620.6	5478.7	5354.5	5266.3	5153.3	5158.8
57.5°	5797.1	5804.0	5906.0	6112.8	6366.5	6525.0	6275.5	6030.1	5850.9	5743.3	5700.6
60°	6478.2	6485.0	6633.9	6886.2	7280.5	7473.5	7164.7	6763.5	6537.4	6373.4	6384.4
62.5°	7295.7	7323.2	7457.0	7804.4	8282.7	8499.2	8089.7	7553.4	7247.4	7043.4	7051.6
65°	8171.1	8218.0	8364.1	8746.0	9187.1	9420.1	8918.3	8299.3	7918.8	7669.3	7695.5
67.5°	8739.1	8780.4	8991.3	9413.2	9963.3	10156.3	9508.4	8787.3	8311.7	8013.9	7958.8
70°	8594.3	8628.8	8910.0	9508.4	10323.1	10567.1	9649.0	8715.7	8155.9	7812.6	7790.6
72.5°	7586.6	7514.8	7925.7	8784.6	9912.3	10321.7	9206.4	7960.1	7255.7	6902.8	6861.4
75°	5027.8	5183.6	5790.2	6802.1	8386.2	8893.5	7858.1	6391.3	5504.8	5211.2	5165.7
77.5°	1680.6	1800.5	2339.5	3856.0	5717.2	6479.5	5725.4	4180.0	2957.2	2382.3	2393.3
80°	445.3	439.8	569.4	1060.2	2470.5	3752.6	2875.8	1415.8	774.8	561.1	532.1
82.5°	159.9	179.2	230.2	293.6	654.8	1166.3	823.0	397.1	290.9	215.1	208.2
85°	70.3	68.9	99.3	117.2	164.0	217.8	193.0	168.2	147.5	97.9	91.0
87.5°	15.2	15.2	23.4	17.9	29.0	29.0	35.9	42.8	44.1	29.0	23.4
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)