

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: P651823

Luminaire Tested: **GALN-SA4A-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15878.1 lumens  
Efficiency: N/A  
Efficacy: 131.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

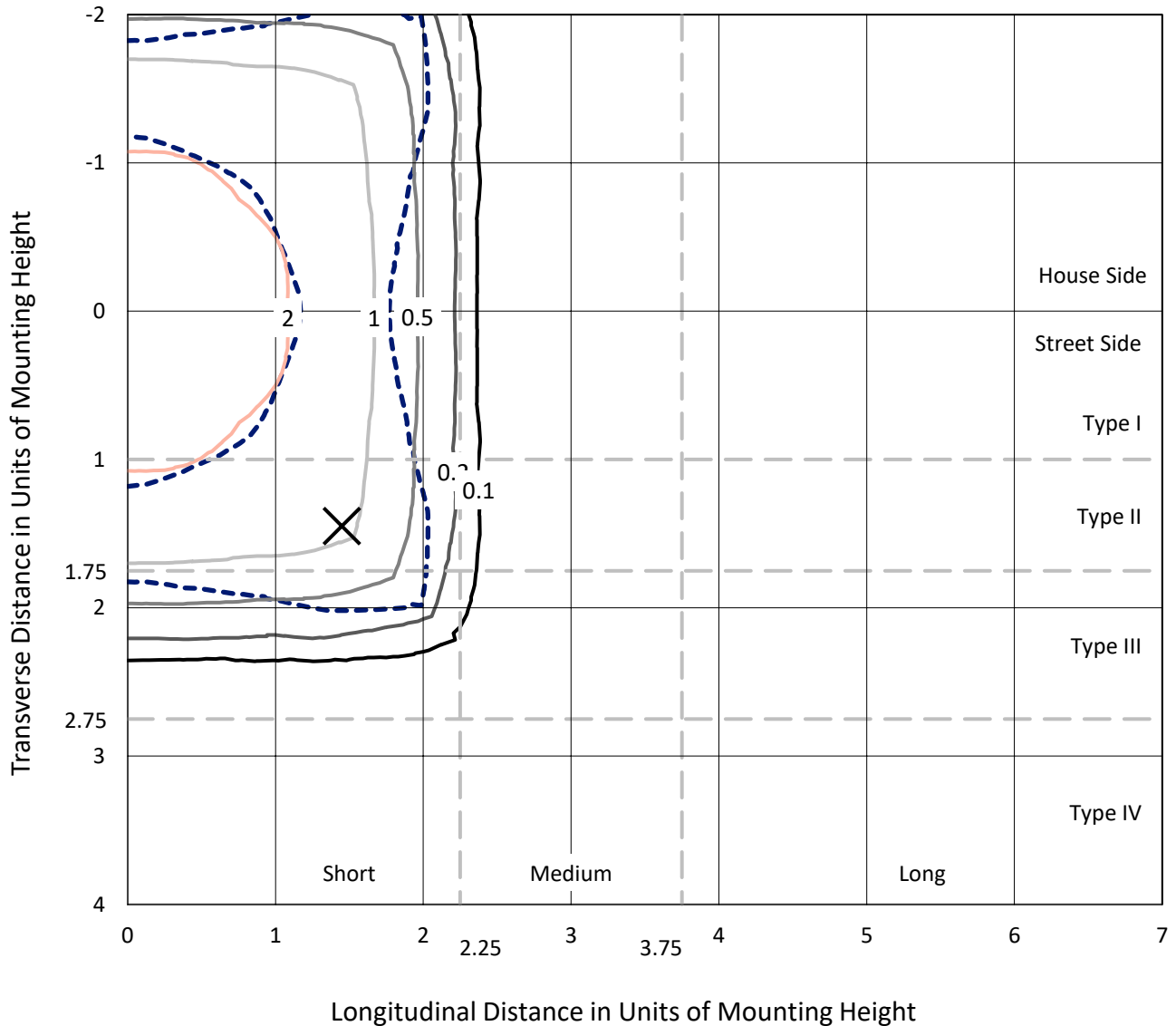
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

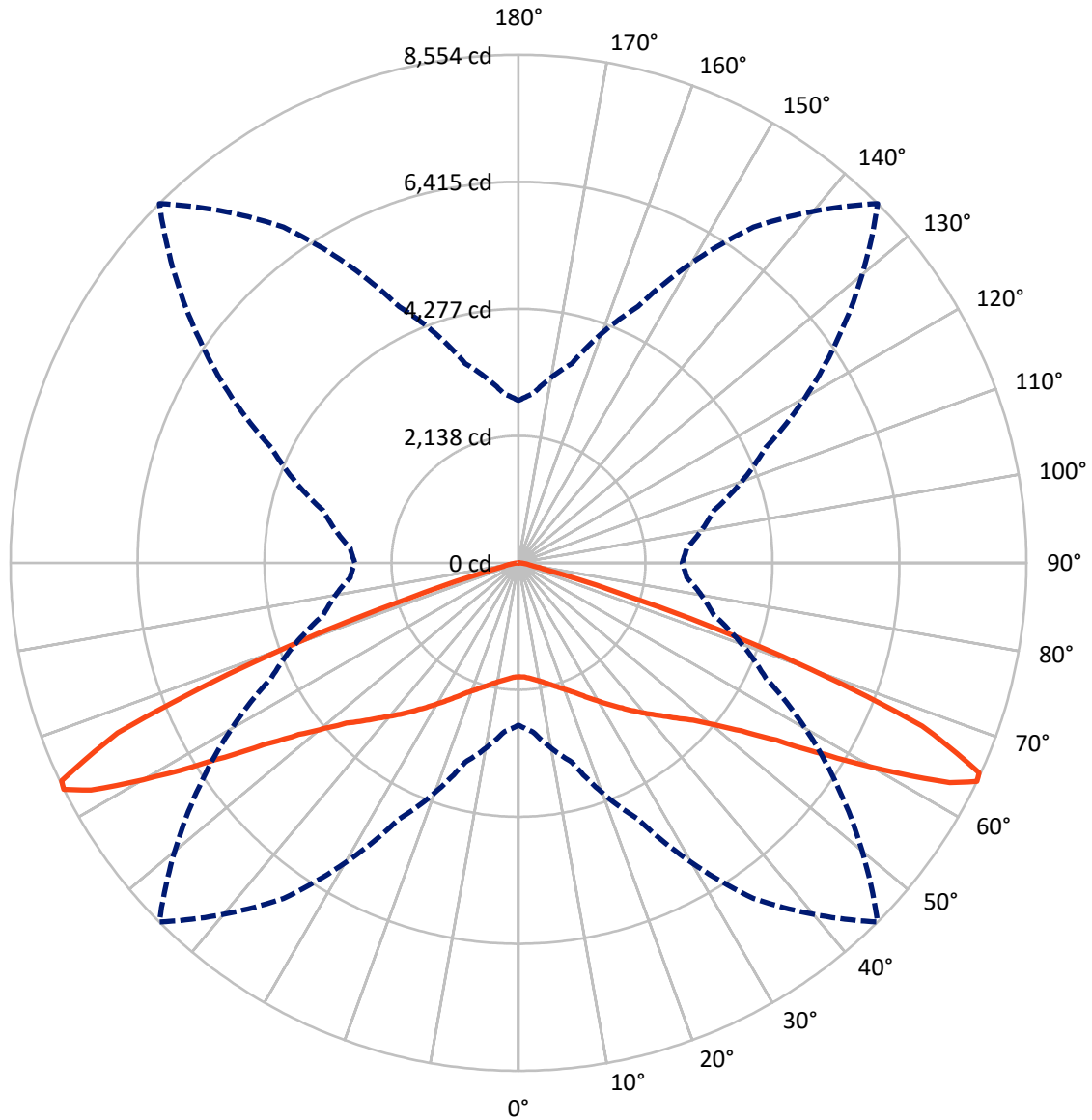
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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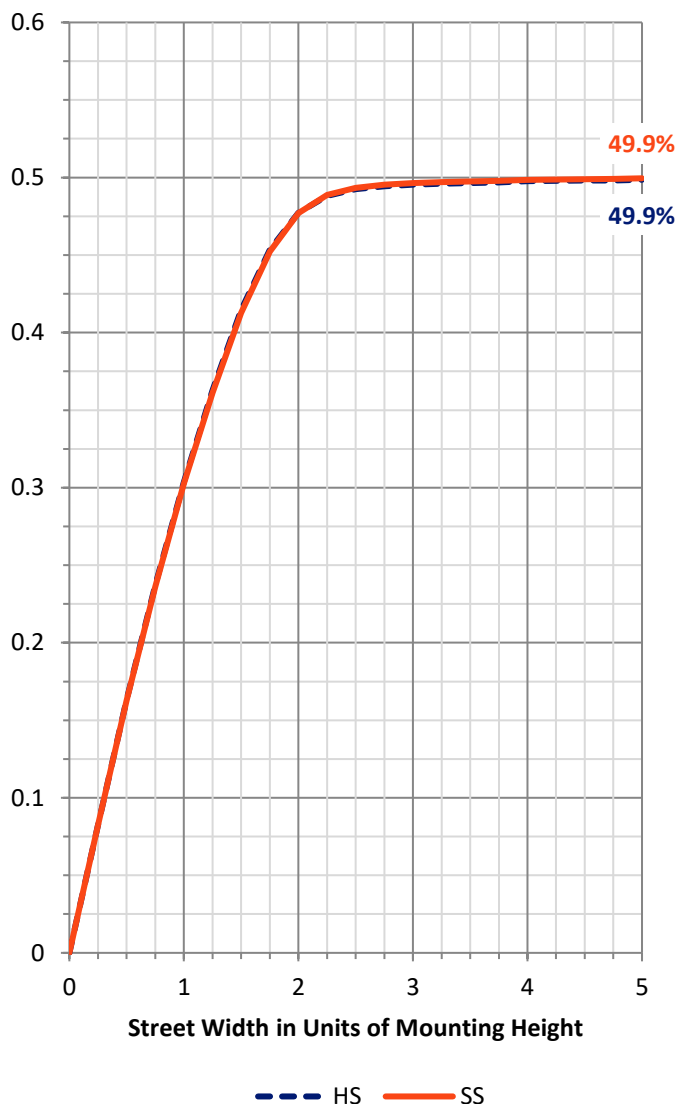
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7939.0	0.0	7939.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7939.0	0.0	7939.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15878.1	0.0	15878.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.5	1.2
10°-20°	608.2	3.8
20°-30°	1149.3	7.2
30°-40°	1903.3	12.0
40°-50°	2971.4	18.7
50°-60°	4593.7	28.9
60°-70°	3961.1	24.9
70°-80°	448.9	2.8
80°-90°	53.8	0.3
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°	15878.1	100.0
0°-180°	15878.1	100.0

**Coefficient of Utilization**



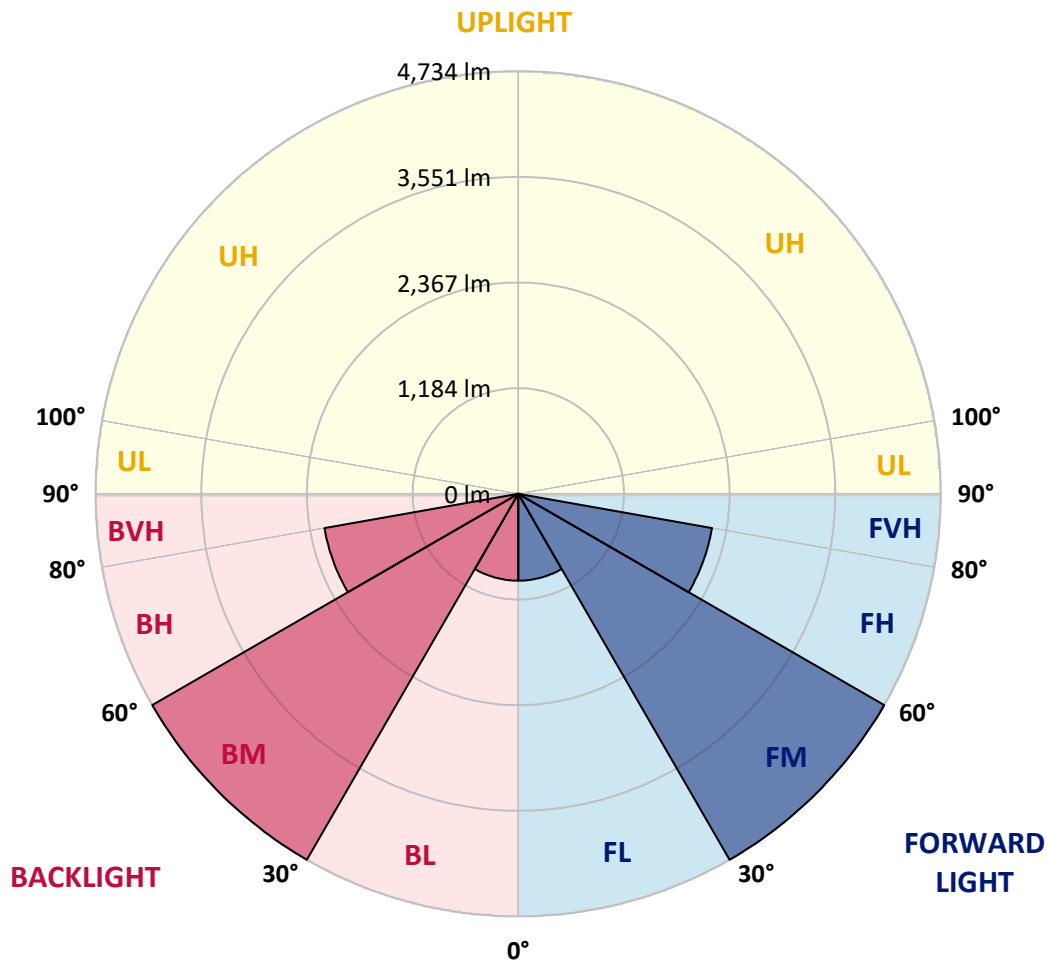
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	973.0	6.1			
FM (30°-60°)	4734.2	29.8			
FH (60°-80°)	2205.0	13.9			G2/5000
FVH (80°-90°)	26.9	0.2			G1/100
BL (0°-30°)	973.0	6.1	B2/1000		
BM (30°-60°)	4734.2	29.8	B3/5000		
BH (60°-80°)	2205.0	13.9	B3/2500		G2/5000
BVH (80°-90°)	26.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1919.2	1919.2	1919.2	1919.2	1919.2	1919.2	1919.2	1919.2	1919.2	1919.2	1919.2
2.5°	1926.7	1930.9	1927.6	1926.7	1925.9	1925.9	1925.9	1926.7	1930.1	1932.6	1930.9
5°	1951.1	1954.5	1952.8	1952.0	1951.1	1952.0	1950.3	1949.4	1952.0	1952.0	1951.1
7.5°	1981.4	1985.6	1983.9	1985.6	1986.4	1987.3	1983.1	1979.7	1978.9	1981.4	1979.7
10°	2022.6	2026.0	2026.8	2027.7	2029.3	2028.5	2023.4	2017.6	2016.7	2015.9	2015.0
12.5°	2068.9	2071.4	2072.2	2075.6	2078.1	2079.0	2073.1	2068.0	2059.6	2061.3	2057.9
15°	2121.0	2126.0	2125.2	2130.3	2137.0	2138.7	2132.8	2124.4	2116.8	2112.6	2110.1
17.5°	2184.9	2188.3	2186.6	2191.6	2200.1	2204.3	2199.2	2188.3	2180.7	2171.5	2166.4
20°	2260.6	2266.5	2268.2	2268.2	2275.7	2280.0	2272.4	2269.0	2257.2	2250.5	2246.3
22.5°	2346.4	2348.9	2354.0	2359.0	2366.6	2364.9	2362.4	2357.3	2346.4	2340.5	2333.8
25°	2443.1	2445.6	2458.2	2469.2	2471.7	2470.0	2466.7	2464.1	2454.0	2440.6	2435.5
27.5°	2555.8	2560.8	2577.7	2587.8	2587.8	2588.6	2581.9	2590.3	2568.4	2552.4	2550.8
30°	2697.1	2700.5	2714.7	2724.8	2719.8	2715.6	2713.9	2722.3	2698.8	2670.2	2663.4
32.5°	2836.6	2848.4	2861.0	2882.9	2865.2	2857.6	2856.0	2861.8	2834.9	2803.0	2793.7
35°	2986.3	2994.7	3018.3	3036.8	3020.8	3003.1	3010.7	3029.2	2997.2	2954.3	2952.7
37.5°	3152.0	3159.6	3189.8	3209.2	3197.4	3167.1	3179.7	3201.6	3169.6	3116.7	3105.7
40°	3324.4	3340.4	3378.2	3398.4	3379.1	3338.7	3362.2	3385.8	3357.2	3295.8	3271.4
42.5°	3517.8	3543.0	3597.7	3607.8	3570.8	3516.1	3557.3	3595.2	3575.0	3504.4	3495.1
45°	3744.0	3759.2	3826.5	3848.3	3797.0	3728.9	3780.2	3849.2	3834.0	3752.5	3734.8
47.5°	3997.2	4011.5	4081.3	4114.1	4049.3	3957.7	4050.2	4140.2	4130.9	4043.4	4035.0
50°	4296.6	4299.9	4396.7	4433.7	4368.9	4289.9	4372.3	4484.1	4447.1	4335.3	4333.6
52.5°	4624.6	4628.8	4750.7	4822.2	4786.0	4696.9	4794.5	4862.6	4768.4	4622.1	4611.1
55°	4908.8	4929.9	5096.4	5286.4	5336.1	5271.3	5300.7	5268.8	5036.7	4831.5	4799.5
57.5°	5024.9	5066.1	5319.2	5674.1	5997.1	6093.0	5865.9	5561.4	5143.5	4853.3	4822.2
60°	4741.5	4786.0	5178.8	5852.4	6676.6	7092.9	6454.6	5611.1	4900.4	4492.5	4443.8
62.5°	3797.0	3809.6	4387.4	5432.8	7072.7	8150.9	6702.7	5188.0	4193.1	3638.9	3619.6
64°	2732.4	2861.8	3474.1	4763.3	6899.5	8553.6	6559.7	4595.1	3406.0	2845.0	2754.3
65°	2043.6	2079.0	2800.4	4067.8	6594.2	8523.4	6282.2	4028.3	2820.6	2177.3	2076.4
67.5°	772.0	776.2	1033.6	2027.7	4694.4	7333.4	4794.5	2191.6	1188.3	859.5	828.4
70°	320.4	326.3	379.3	682.1	2017.6	4708.7	2311.9	790.5	434.8	352.4	347.3
72.5°	234.6	238.0	254.0	302.8	620.7	1933.5	760.3	335.6	254.8	227.9	225.4
75°	184.2	185.9	197.6	222.9	289.3	535.7	316.2	230.4	194.3	174.9	173.2
77.5°	140.4	144.7	153.1	169.9	194.3	254.0	209.4	172.4	149.7	133.7	131.2
80°	96.7	101.8	117.7	124.5	130.4	164.8	143.0	130.4	116.9	97.6	91.7
82.5°	59.7	63.1	79.1	84.9	82.4	92.5	91.7	93.4	83.3	60.6	56.3
85°	31.1	32.8	42.9	44.6	41.2	37.8	47.1	54.7	51.3	34.5	33.6
87.5°	6.7	7.6	9.3	8.4	9.3	9.3	11.8	17.7	18.5	11.8	10.9
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)