

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: P651873

Luminaire Tested: **GALN-SA5A-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651873  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11559.5 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G0

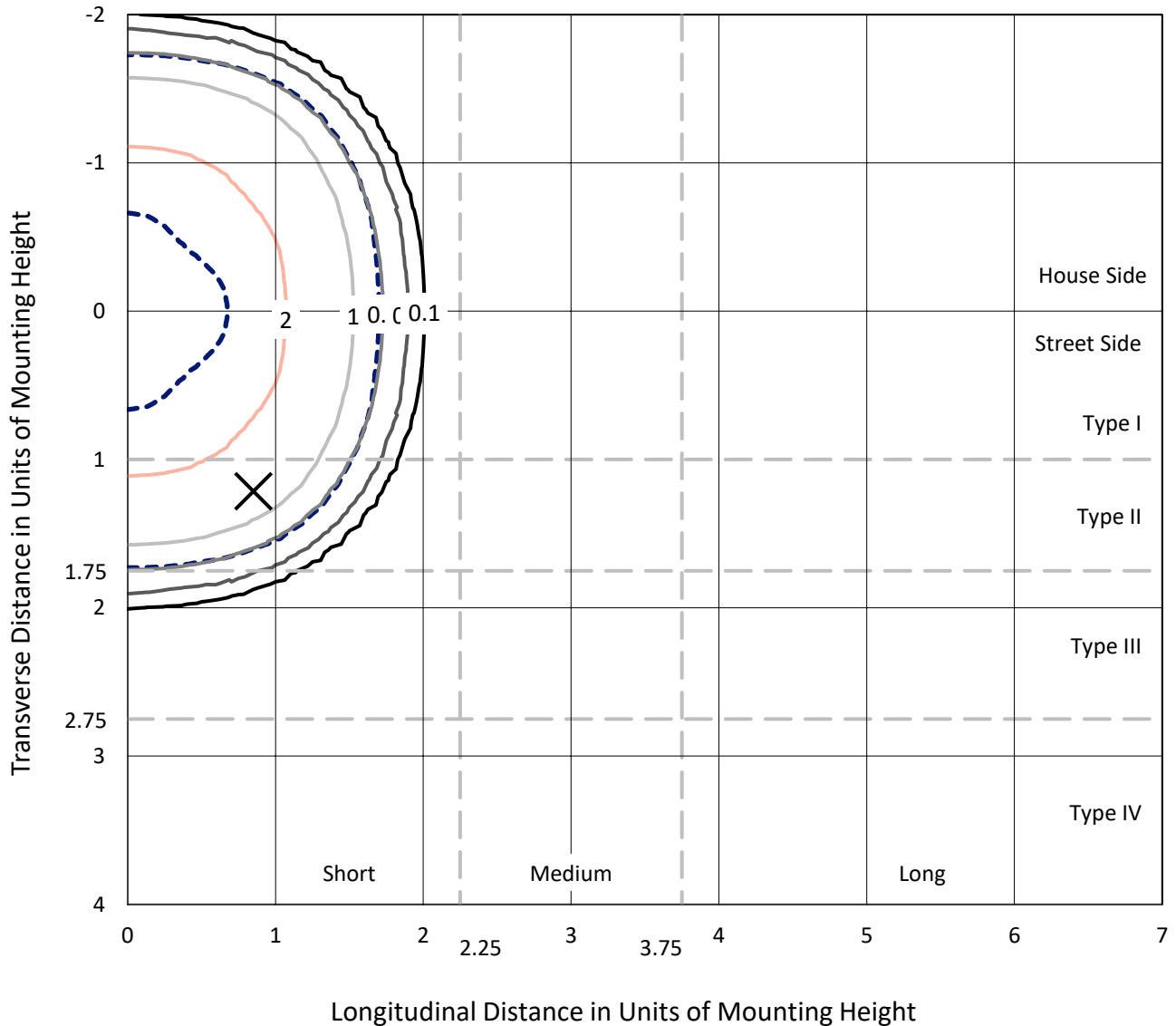
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

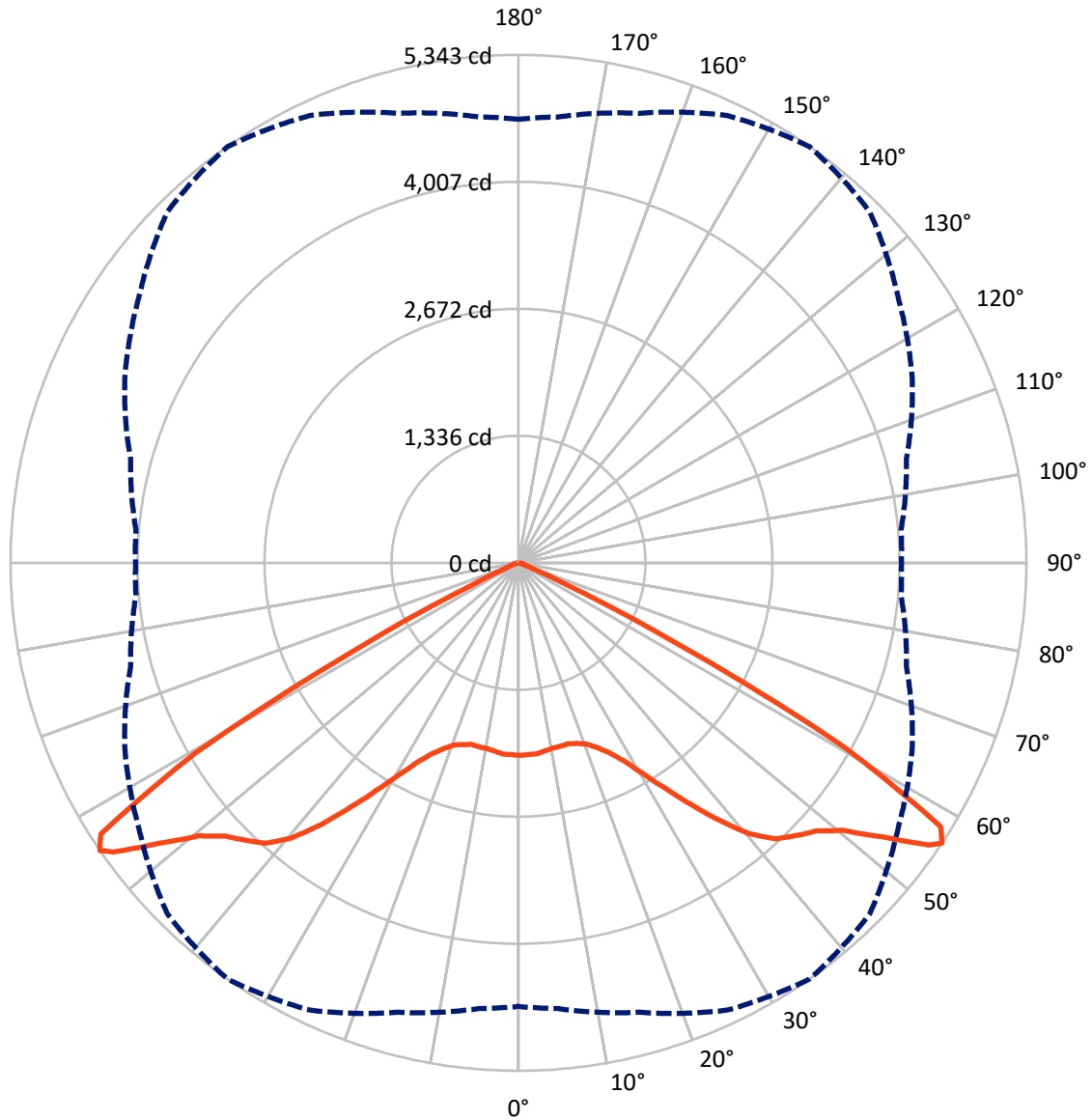
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5779.8	0.0	5779.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5779.8	0.0	5779.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11559.5	0.0	11559.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.4	1.6
10°-20°	555.8	4.8
20°-30°	1006.4	8.7
30°-40°	1866.3	16.1
40°-50°	3063.4	26.5
50°-60°	3946.5	34.1
60°-70°	869.8	7.5
70°-80°	50.5	0.4
80°-90°	10.6	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°	11559.5	100.0
0°-180°	11559.5	100.0

**Coefficient of Utilization**



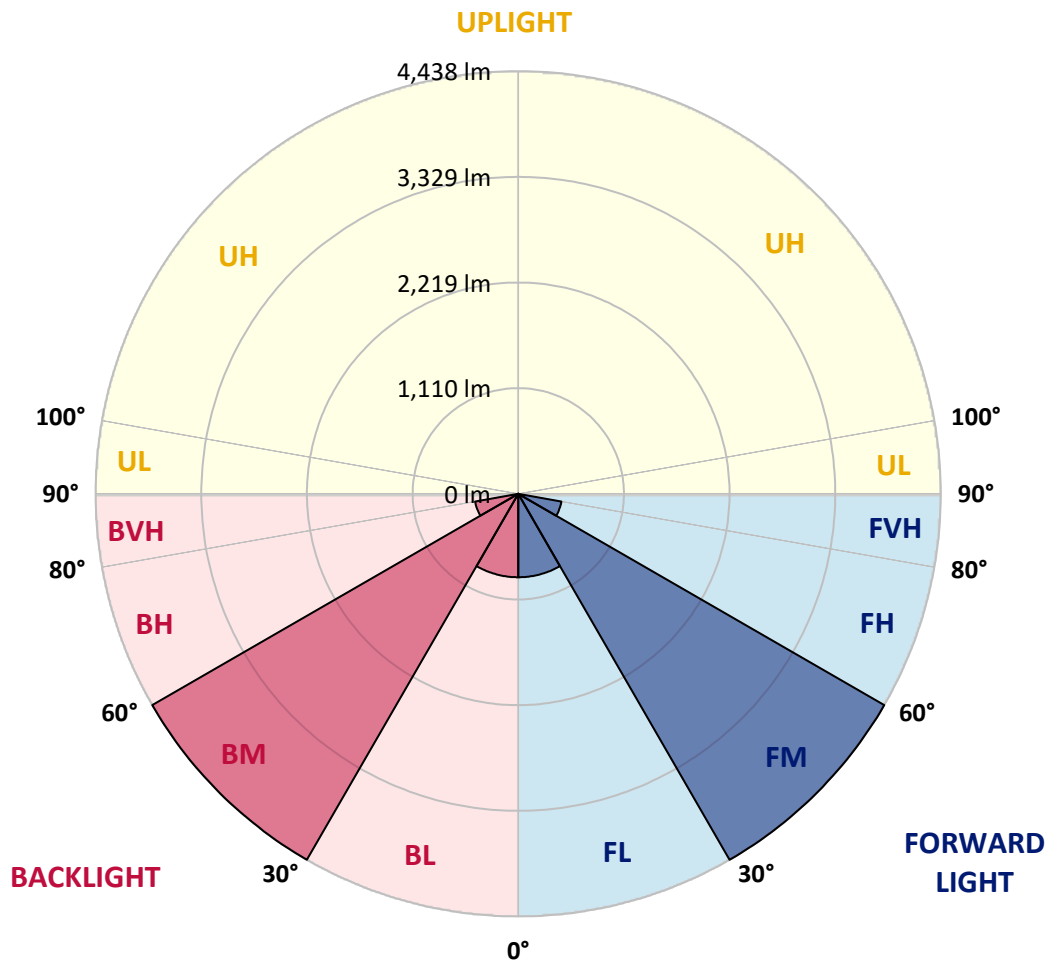
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	876.3	7.6			
FM (30°-60°)	4438.1	38.4			
FH (60°-80°)	460.1	4.0			G0/660
FVH (80°-90°)	5.3	0.0			G0/10
BL (0°-30°)	876.3	7.6	B2/1000		
BM (30°-60°)	4438.1	38.4	B3/5000		
BH (60°-80°)	460.1	4.0	B1/500		G0/660
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5	2025.5
2.5°	2029.7	2029.7	2031.8	2033.9	2019.2	2012.9	2015.0	2010.8	2008.7	2015.0	2015.0
5°	2023.4	2023.4	2017.1	2019.2	2019.2	2000.3	2000.3	2004.5	2004.5	1992.0	1987.8
7.5°	2006.6	2002.4	1994.1	2004.5	1998.2	1998.2	1983.6	1973.2	1968.9	1977.3	1968.9
10°	1971.1	1973.2	1981.5	1985.7	1981.5	1994.1	1968.9	1954.2	1939.6	1933.3	1933.3
12.5°	1954.2	1966.8	1954.2	1964.7	1979.4	1968.9	1954.2	1943.8	1922.9	1914.5	1914.5
15°	1952.1	1960.5	1964.7	1979.4	1973.2	1977.3	1948.0	1935.4	1904.0	1889.3	1883.1
17.5°	1950.1	1960.5	1966.8	1994.1	1998.2	2000.3	1977.3	1939.6	1912.3	1897.7	1883.1
20°	1973.2	1977.3	1989.9	2017.1	2033.9	2063.2	2021.3	1981.5	1922.9	1906.1	1899.8
22.5°	2002.4	2023.4	2036.0	2065.2	2109.2	2134.4	2080.0	2029.7	1968.9	1948.0	1922.9
25°	2096.7	2092.5	2113.4	2174.2	2209.8	2228.6	2184.7	2111.3	2031.8	2006.6	2010.8
27.5°	2214.0	2218.2	2237.1	2304.1	2356.4	2385.7	2333.4	2237.1	2159.5	2117.6	2113.4
30°	2366.9	2362.7	2383.6	2473.7	2568.0	2612.0	2519.8	2406.7	2331.3	2276.8	2289.4
32.5°	2528.2	2530.3	2588.9	2670.6	2823.5	2909.4	2760.7	2622.4	2509.4	2471.6	2452.8
35°	2767.0	2777.4	2823.5	2949.2	3118.8	3229.9	3066.5	2901.0	2771.2	2702.0	2710.4
37.5°	3062.3	3051.8	3129.4	3265.5	3443.6	3525.2	3387.0	3198.5	3066.5	3020.5	3049.7
40°	3376.5	3387.0	3426.7	3550.4	3749.3	3803.8	3598.6	3495.9	3380.7	3357.6	3393.3
42.5°	3690.7	3684.4	3713.8	3824.8	3969.3	3931.6	3810.1	3749.3	3667.7	3621.6	3669.7
45°	3921.1	3910.6	3965.1	4040.5	4092.9	4021.7	3967.2	3946.2	3904.3	3854.1	3898.0
47.5°	4145.2	4136.9	4189.2	4210.1	4214.3	4120.1	4130.6	4168.2	4063.5	3958.8	4009.0
50°	4335.9	4321.1	4386.1	4432.2	4421.7	4270.9	4308.6	4270.9	4107.5	3983.9	3965.1
52.5°	4654.2	4660.5	4729.6	4813.4	4788.2	4662.6	4608.1	4436.4	4227.0	4115.9	4050.9
55°	4855.3	4823.9	4943.2	5209.2	5238.6	5108.7	4867.9	4614.4	4300.2	4164.0	4147.3
56°	4666.8	4706.6	4895.1	5192.5	5343.3	5224.0	4874.1	4570.4	4224.8	4040.5	4027.9
57.5°	4187.1	4166.1	4421.7	4828.1	5238.6	5188.3	4702.4	4256.2	3854.1	3646.7	3621.6
60°	2605.7	2666.4	2890.5	3393.3	3942.0	3967.2	3485.4	3102.1	2632.9	2448.6	2492.6
62.5°	1020.0	967.7	1108.0	1483.0	1860.0	1943.8	1761.6	1464.1	1202.3	1020.0	1007.5
65°	236.7	230.4	259.7	358.2	500.6	580.2	550.9	395.9	291.2	276.5	255.6
67.5°	134.1	134.1	127.7	127.7	140.4	148.7	142.5	140.4	146.6	152.9	150.8
70°	94.3	92.2	88.0	90.1	85.9	85.9	92.2	102.6	111.0	111.0	113.1
72.5°	56.5	56.5	56.5	62.8	62.8	62.8	69.1	77.5	79.6	77.5	75.4
75°	25.1	25.1	29.4	35.6	39.8	41.9	48.2	52.4	56.5	52.4	48.2
77.5°	6.3	6.3	10.5	14.6	18.8	23.0	31.5	37.7	39.8	37.7	31.5
80°	2.1	2.1	4.2	10.5	18.8	23.0	31.5	33.5	35.6	31.5	25.1
82.5°	2.1	2.1	4.2	10.5	14.6	18.8	25.1	29.4	31.5	27.2	25.1
85°	0.0	2.1	4.2	8.4	12.5	16.7	16.7	12.5	10.5	6.3	8.4
87.5°	0.0	0.0	2.1	2.1	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)