

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: P651820

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15957.2 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

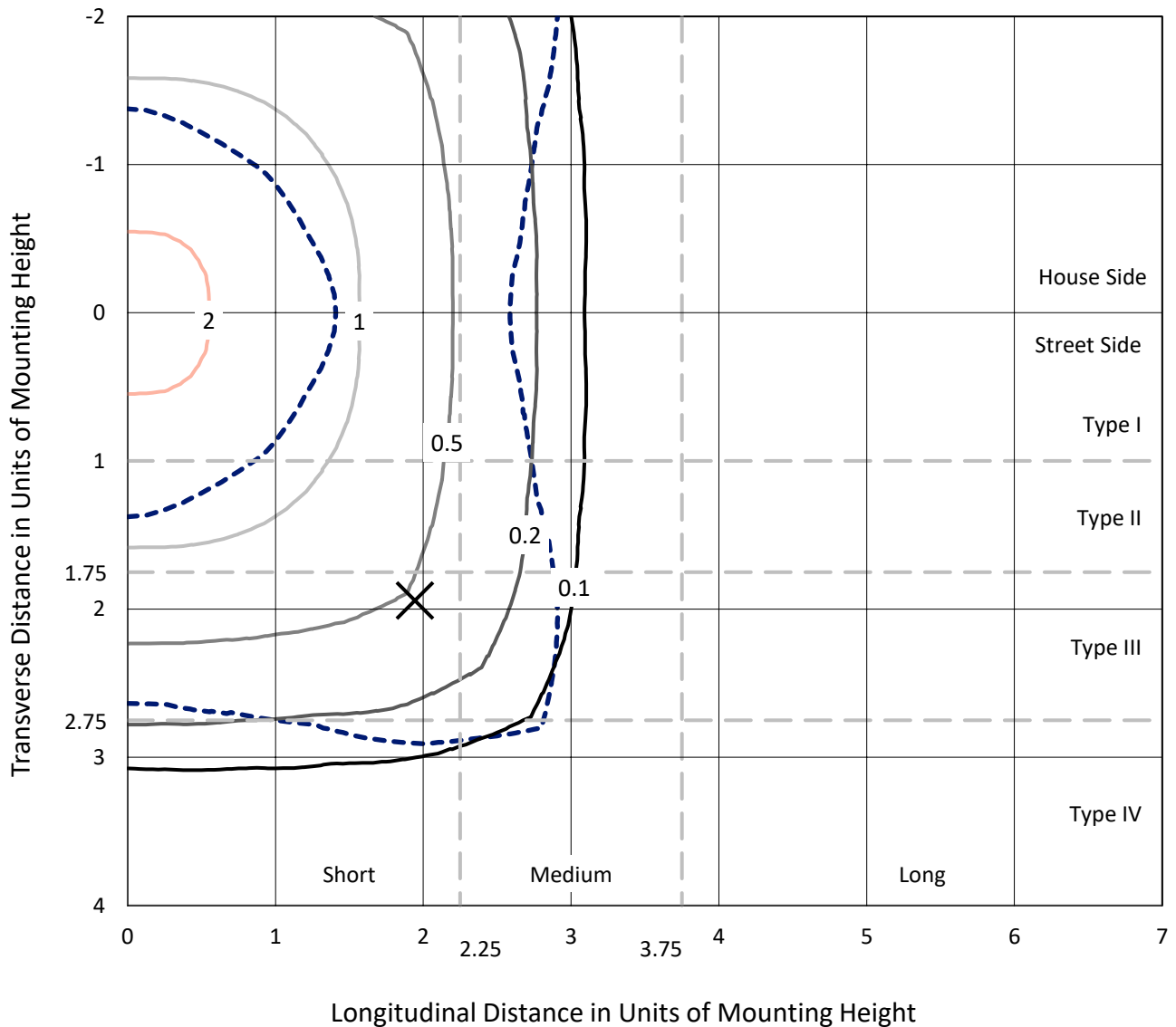
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

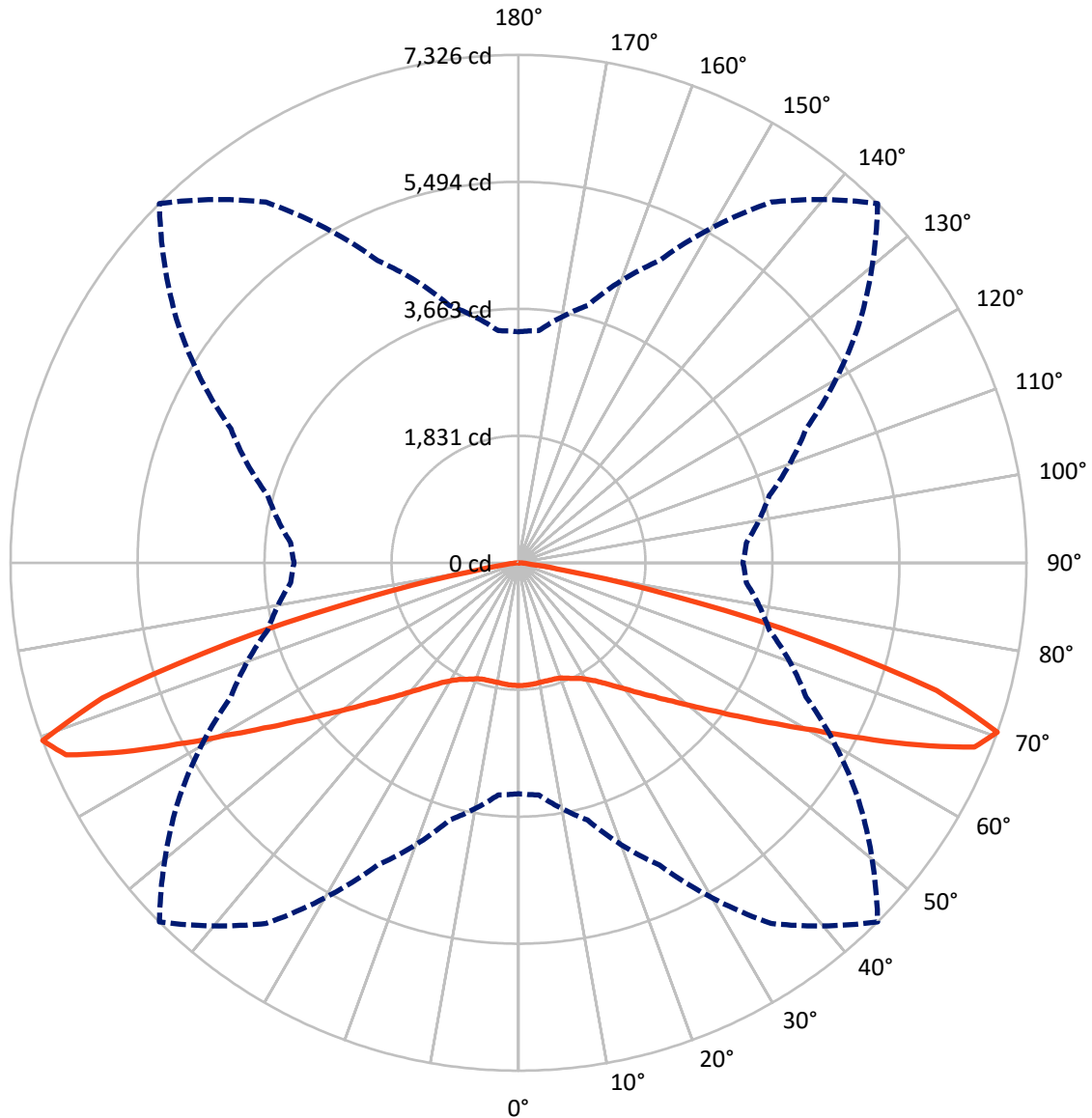
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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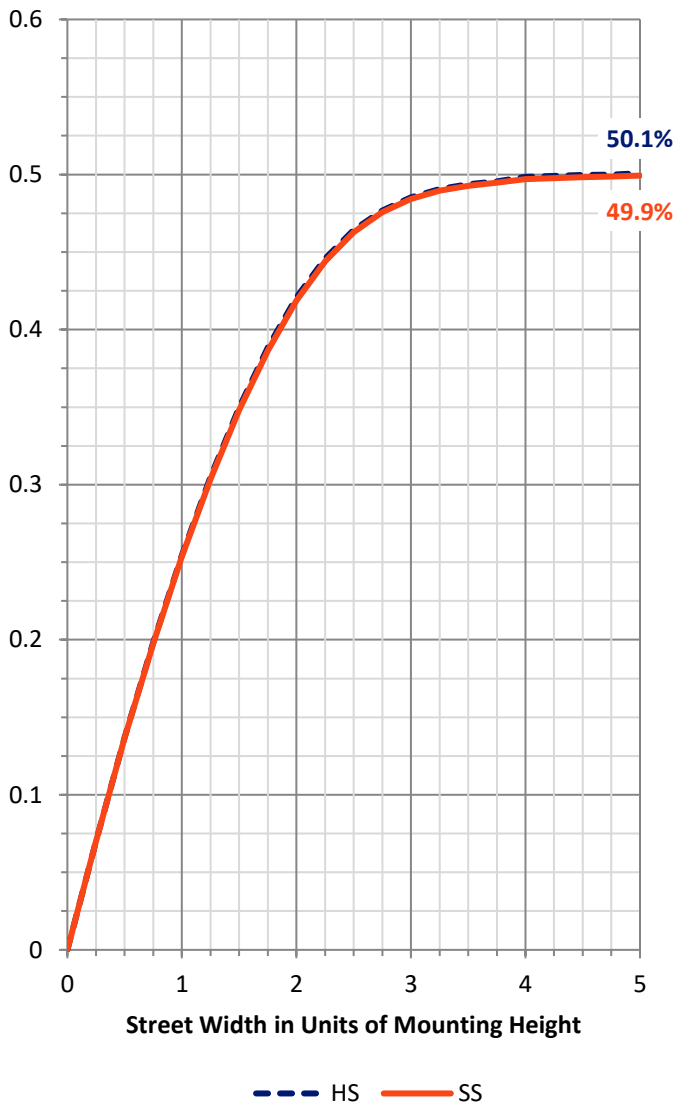
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7978.6	0.0	7978.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7978.6	0.0	7978.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15957.2	0.0	15957.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.0	1.1
10°-20°	493.1	3.1
20°-30°	843.3	5.3
30°-40°	1338.5	8.4
40°-50°	2159.4	13.5
50°-60°	3513.4	22.0
60°-70°	5093.1	31.9
70°-80°	2259.2	14.2
80°-90°	89.1	0.6
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°	15957.2	100.0
0°-180°	15957.2	100.0

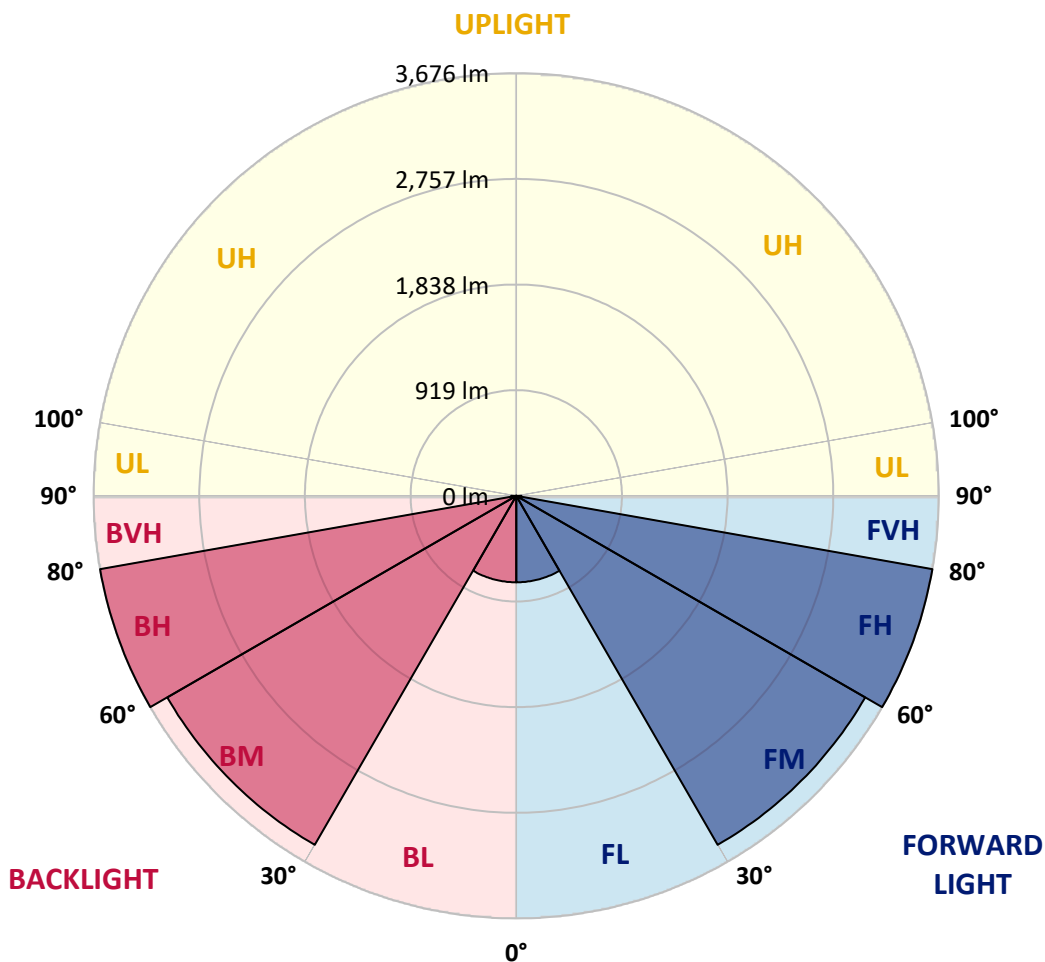


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	752.2	4.7			
FM (30°-60°)	3505.7	22.0			
FH (60°-80°)	3676.1	23.0			G2/5000
FVH (80°-90°)	44.6	0.3			G1/100
BL (0°-30°)	752.2	4.7	B2/1000		
BM (30°-60°)	3505.7	22.0	B3/5000		
BH (60°-80°)	3676.1	23.0	B4/5000		G2/5000
BVH (80°-90°)	44.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0	1772.0
2.5°	1772.0	1773.7	1771.1	1769.5	1768.6	1768.6	1767.8	1768.6	1773.7	1774.5	1772.0
5°	1766.9	1768.6	1767.8	1766.1	1765.3	1765.3	1764.4	1763.6	1767.8	1769.5	1768.6
7.5°	1760.2	1761.1	1760.2	1759.4	1760.2	1759.4	1756.8	1755.2	1758.5	1758.5	1757.7
10°	1748.4	1750.1	1749.3	1750.1	1751.8	1751.8	1748.4	1745.1	1745.9	1744.2	1744.2
12.5°	1734.1	1736.7	1737.5	1740.9	1745.1	1750.1	1742.6	1735.0	1733.3	1732.5	1731.6
15°	1724.9	1727.4	1730.8	1734.1	1741.7	1752.6	1741.7	1729.9	1726.6	1723.2	1721.5
17.5°	1722.4	1725.7	1730.8	1735.8	1745.9	1756.8	1747.6	1735.8	1727.4	1722.4	1720.7
20°	1729.1	1731.6	1739.2	1748.4	1762.7	1773.7	1764.4	1751.8	1739.2	1731.6	1729.1
22.5°	1742.6	1746.8	1756.0	1772.8	1793.0	1809.0	1796.4	1775.4	1755.2	1745.1	1741.7
25°	1772.0	1775.4	1786.3	1809.0	1832.5	1847.7	1834.2	1809.8	1782.1	1768.6	1764.4
27.5°	1816.6	1821.6	1833.4	1860.3	1879.6	1888.0	1878.8	1862.0	1841.8	1827.5	1824.1
30°	1879.6	1885.5	1903.2	1931.8	1944.4	1949.4	1945.2	1934.3	1920.0	1904.9	1901.5
32.5°	1964.6	1967.9	1988.1	2015.0	2026.8	2028.5	2023.4	2018.4	1994.9	1969.6	1967.9
35°	2059.6	2065.5	2089.9	2121.8	2132.8	2133.6	2123.5	2116.0	2088.2	2068.0	2068.0
37.5°	2185.8	2188.3	2211.8	2248.0	2259.8	2256.4	2251.4	2244.6	2215.2	2189.1	2190.0
40°	2333.8	2338.8	2359.0	2401.1	2401.1	2396.8	2400.2	2395.2	2365.7	2340.5	2341.3
42.5°	2509.5	2512.1	2536.5	2581.0	2577.7	2569.3	2572.6	2565.9	2547.4	2518.8	2508.7
45°	2697.1	2707.2	2749.2	2792.1	2785.4	2758.5	2771.9	2770.3	2753.4	2710.5	2713.1
47.5°	2923.3	2940.1	2980.5	3031.8	3024.2	2982.2	2997.3	3007.4	2983.9	2936.8	2928.4
50°	3178.1	3189.1	3248.8	3296.7	3290.0	3245.4	3279.9	3281.6	3222.7	3156.3	3156.3
52.5°	3449.7	3460.6	3541.4	3616.2	3620.4	3555.7	3583.4	3581.7	3485.9	3398.4	3381.6
55°	3754.1	3759.2	3863.5	3973.6	3997.2	3934.1	3937.5	3903.8	3779.4	3677.6	3668.4
57.5°	4068.7	4087.2	4202.4	4345.4	4415.2	4376.5	4358.8	4268.8	4148.6	4031.7	4025.8
60°	4416.8	4417.7	4567.4	4736.4	4877.7	4903.8	4831.5	4711.2	4555.6	4400.9	4394.1
62.5°	4658.2	4694.4	4883.6	5169.5	5422.7	5569.0	5378.1	5125.8	4819.7	4569.9	4544.7
65°	4707.8	4732.2	5020.7	5505.1	6022.3	6337.7	5896.2	5359.6	4837.3	4504.3	4487.5
67.5°	4306.7	4332.7	4721.3	5464.7	6442.8	7089.5	6232.6	5246.9	4538.0	4125.9	4093.1
70°	3331.1	3360.6	3840.8	4810.4	6349.5	7325.9	5992.9	4576.6	3742.4	3297.6	3237.8
72.5°	1771.1	1879.6	2290.0	3301.8	5153.6	6307.4	4913.9	3339.5	2413.7	1973.0	1893.9
75°	646.7	660.2	888.9	1464.2	2998.2	4325.2	3113.4	1592.9	915.8	707.3	671.1
77.5°	267.4	266.6	292.7	442.4	1089.1	2215.2	1215.2	467.6	291.8	270.0	266.6
80°	158.1	158.1	174.1	184.2	286.8	668.6	320.4	208.6	174.9	159.8	162.3
82.5°	70.6	74.8	110.2	116.1	138.8	183.3	154.7	132.9	114.4	79.1	71.5
85°	38.7	33.6	58.0	60.6	66.4	68.1	73.2	72.3	66.4	38.7	39.5
87.5°	7.6	9.3	16.8	12.6	14.3	12.6	16.8	23.5	24.4	13.5	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)