

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: P652237

Luminaire Tested: **GALN-SA2B-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9606.7 lumens  
Efficiency: N/A  
Efficacy: 117.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

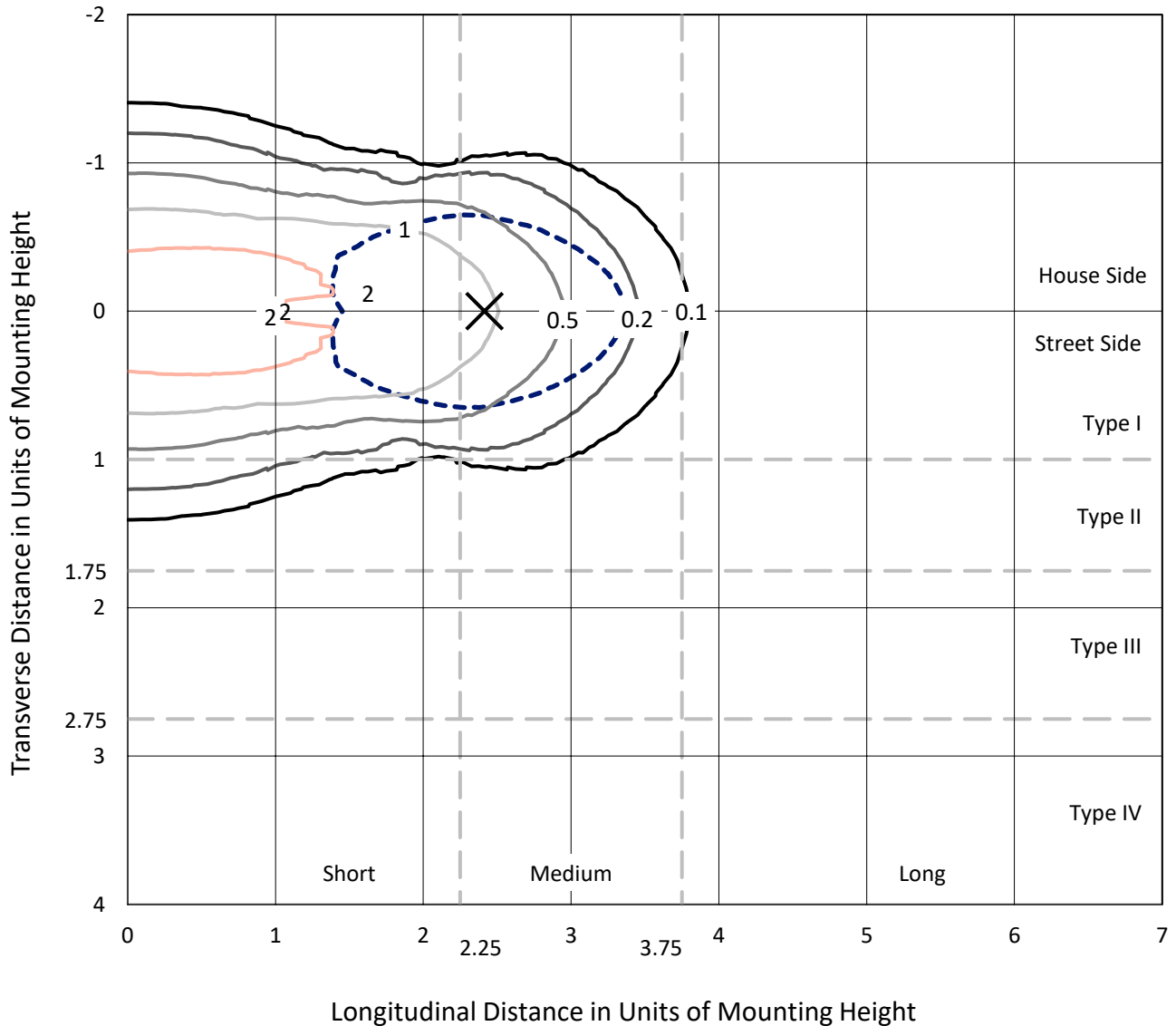
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

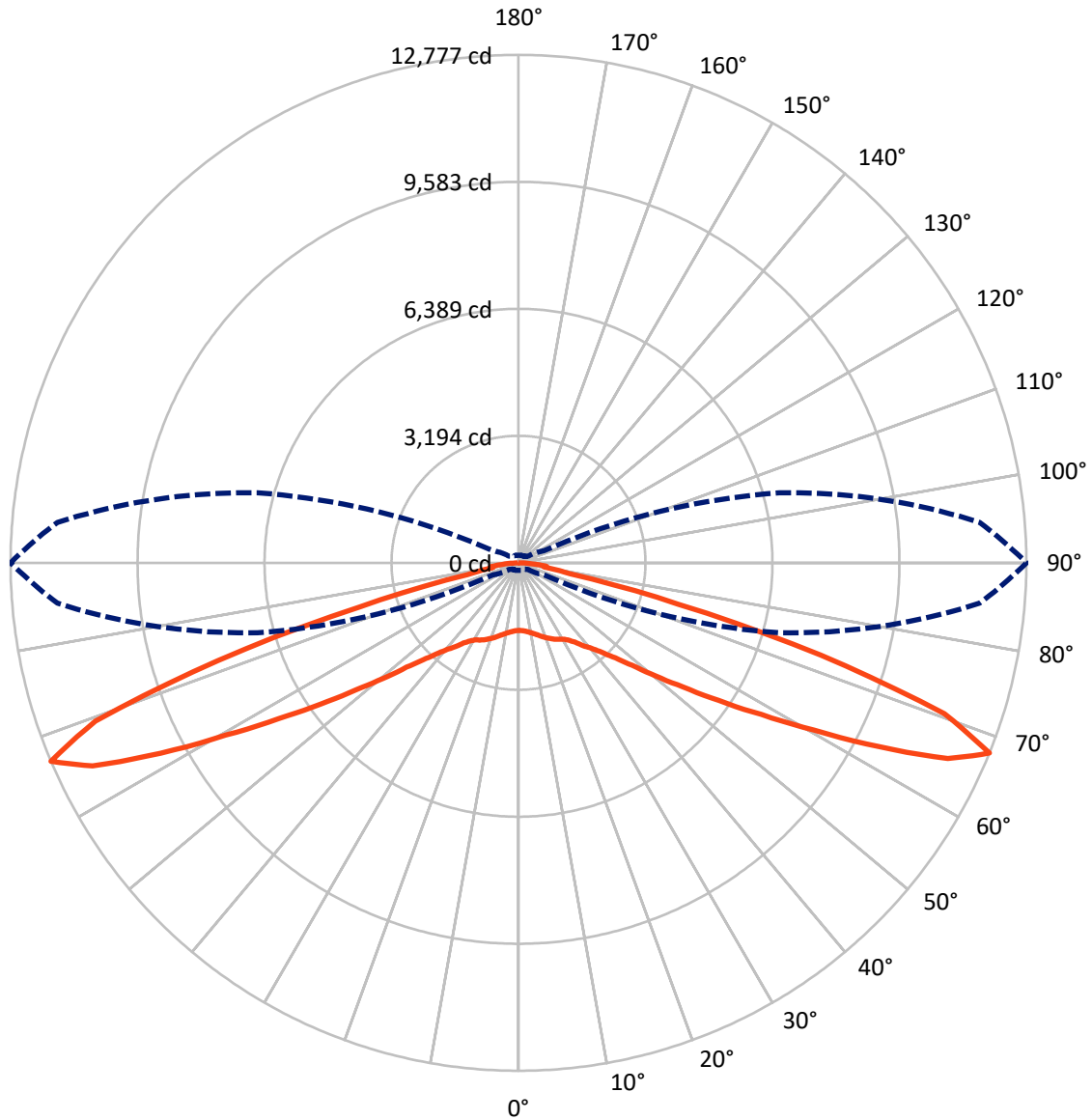
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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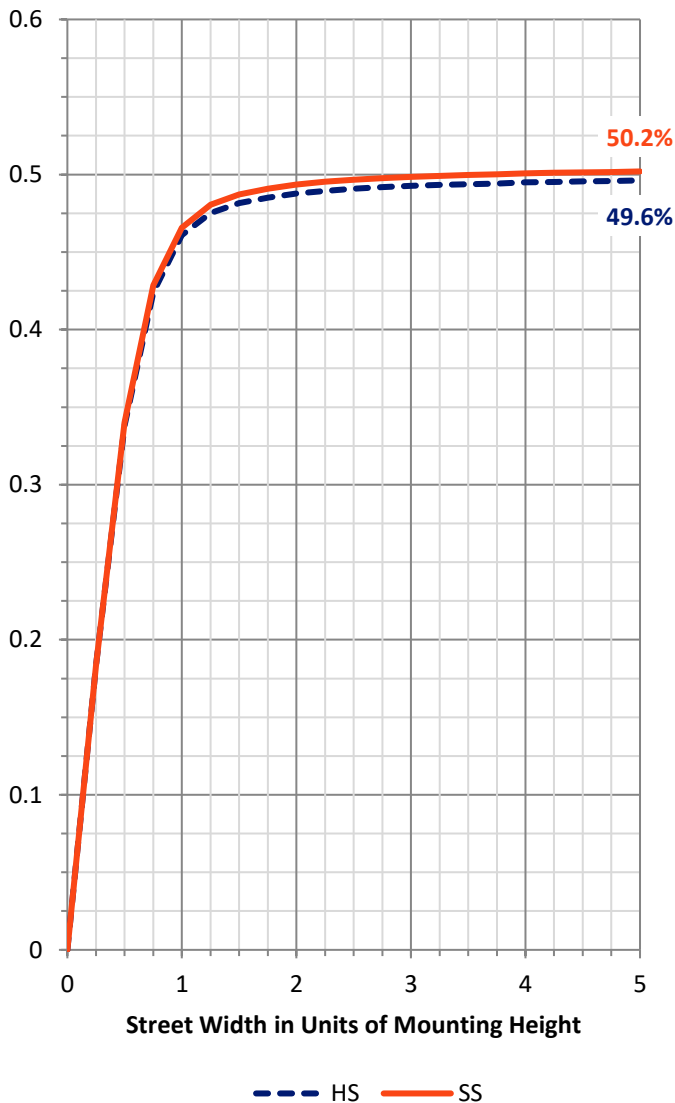
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4803.4	0.0	4803.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4803.4	0.0	4803.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9606.7	0.0	9606.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.6	1.8
10°-20°	542.5	5.6
20°-30°	908.0	9.5
30°-40°	1230.1	12.8
40°-50°	1558.1	16.2
50°-60°	1946.5	20.3
60°-70°	2288.0	23.8
70°-80°	875.3	9.1
80°-90°	88.7	0.9
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°	9606.7	100.0
0°-180°	9606.7	100.0

**Coefficient of Utilization**



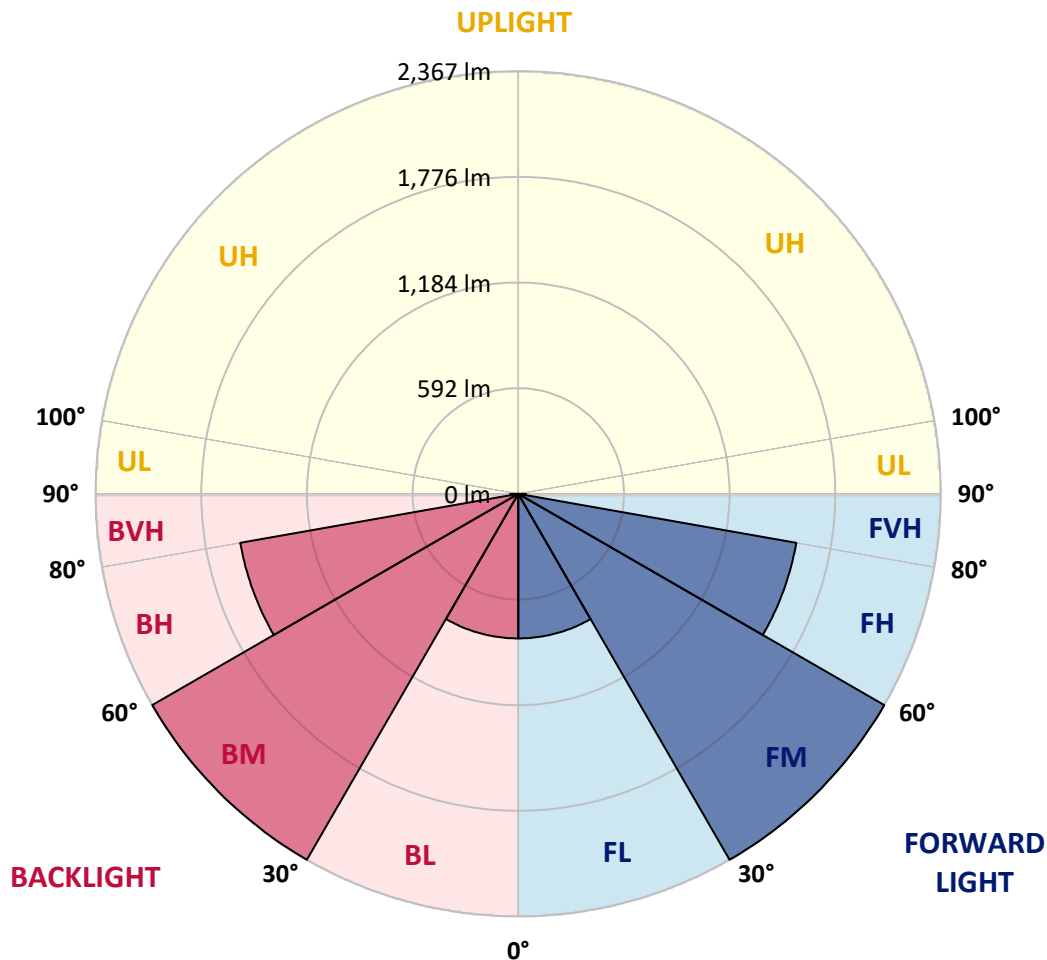
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	810.0	8.4			
FM (30°-60°)	2367.4	24.6			
FH (60°-80°)	1581.6	16.5			G1/1800
FVH (80°-90°)	44.3	0.5			G1/100
BL (0°-30°)	810.0	8.4	B2/1000		
BM (30°-60°)	2367.4	24.6	B2/2500		
BH (60°-80°)	1581.6	16.5	B3/2500		G3/2500
BVH (80°-90°)	44.3	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7	1700.7
2.5°	1722.5	1721.4	1721.9	1721.4	1723.0	1721.9	1715.6	1710.3	1706.1	1706.6	1705.0
5°	1759.2	1759.7	1760.3	1757.6	1761.3	1759.2	1749.1	1740.6	1732.0	1728.9	1727.8
7.5°	1789.6	1792.2	1793.8	1796.5	1802.9	1802.9	1797.5	1785.3	1766.7	1756.0	1755.5
10°	1819.8	1821.9	1826.7	1835.3	1845.9	1856.0	1853.9	1837.4	1813.4	1795.4	1791.2
12.5°	1830.5	1833.1	1849.1	1873.6	1897.5	1917.2	1917.2	1903.9	1873.1	1845.4	1837.4
15°	1793.3	1798.1	1826.7	1878.9	1941.7	1984.8	1994.3	1975.7	1942.7	1900.2	1890.6
17.5°	1719.3	1731.0	1773.1	1850.2	1954.4	2043.8	2071.5	2062.5	2019.8	1965.6	1954.4
20°	1640.0	1652.8	1697.5	1799.7	1943.8	2078.4	2158.7	2160.9	2108.2	2029.4	2012.9
22.5°	1552.8	1562.4	1619.9	1739.5	1911.8	2086.4	2233.7	2270.4	2199.1	2093.2	2069.9
25°	1454.9	1465.5	1525.7	1654.9	1851.8	2077.4	2302.3	2383.2	2294.3	2161.4	2131.6
27.5°	1361.3	1365.5	1430.0	1561.3	1772.5	2053.9	2352.9	2486.9	2399.7	2217.8	2180.0
30°	1271.4	1281.5	1338.5	1468.2	1681.6	2008.1	2396.5	2605.0	2513.0	2276.8	2228.4
32.5°	1176.1	1188.4	1250.1	1381.5	1590.6	1939.5	2423.1	2734.3	2671.0	2372.5	2321.0
35°	1084.6	1092.6	1154.9	1282.6	1501.8	1859.8	2427.9	2880.1	2874.7	2517.8	2449.2
37.5°	991.0	1002.7	1065.5	1187.9	1407.6	1775.2	2403.9	3034.8	3120.5	2719.4	2645.4
40°	901.1	911.2	973.0	1096.4	1300.7	1672.0	2347.1	3176.4	3407.2	2926.8	2822.1
42.5°	803.2	805.9	873.5	999.0	1195.8	1552.2	2265.1	3302.4	3727.0	3205.1	3074.8
45°	692.1	699.0	761.8	885.2	1075.6	1418.2	2153.9	3406.7	4132.3	3590.7	3413.1
47.5°	580.9	586.8	644.2	766.1	944.3	1264.4	1982.7	3498.2	4548.3	4080.7	3847.7
50°	472.4	475.6	522.4	630.4	796.3	1102.8	1770.4	3527.5	5018.6	4774.4	4477.0
52.5°	373.4	378.2	413.9	498.5	638.3	911.8	1541.1	3455.1	5567.6	5596.8	5177.6
55°	302.7	304.3	330.8	393.1	499.0	711.7	1264.4	3253.5	6158.1	6650.6	6116.0
57.5°	260.6	261.7	276.6	311.2	384.1	536.7	980.9	2872.1	6688.4	7885.3	7198.0
60°	236.7	237.2	245.7	266.0	304.3	411.8	702.7	2333.7	7211.8	9259.4	8542.8
62.5°	221.9	221.9	227.7	238.8	257.4	316.0	509.1	1683.7	7570.4	10653.7	10200.4
65°	207.5	207.5	211.8	219.7	229.8	258.5	376.1	1098.0	7561.3	11669.2	11867.6
67.5°	191.0	191.0	194.2	202.2	208.0	222.4	290.5	719.2	6792.2	11646.8	12777.3
70°	171.3	171.3	175.5	182.5	187.3	196.3	229.3	492.1	4989.8	9944.6	11363.3
72.5°	151.6	152.1	154.8	161.7	165.4	170.7	190.4	344.7	3060.9	6771.4	7945.4
75°	129.8	130.9	133.6	140.4	143.6	145.7	160.6	245.7	1548.5	3650.9	4156.8
77.5°	104.8	106.9	108.5	116.0	118.1	121.3	132.5	177.7	679.9	1311.8	1323.6
80°	76.6	79.2	84.0	91.0	92.6	94.7	101.1	126.1	308.0	599.0	650.6
82.5°	56.3	60.1	54.2	63.3	63.3	60.6	71.3	84.6	141.5	593.2	709.6
85°	30.9	31.4	28.2	32.5	34.6	34.1	37.8	41.5	68.6	395.8	408.1
87.5°	7.5	8.0	8.5	10.1	12.2	12.2	13.3	11.7	22.4	128.2	73.4
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)