

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: P648250

Luminaire Tested: **GALN-SA2B-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2B-835-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7601.4 lumens  
Efficiency: N/A  
Efficacy: 92.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

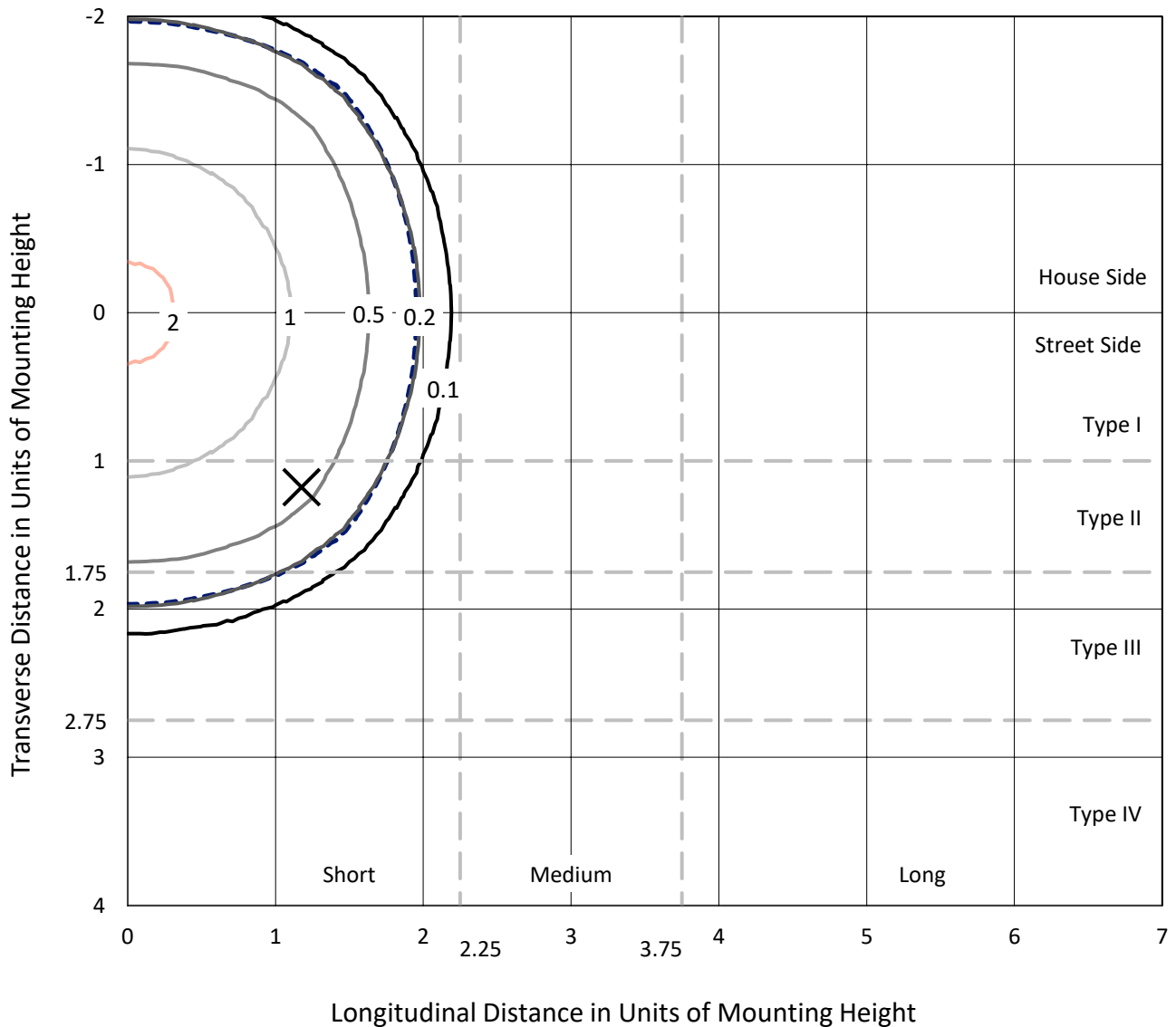
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

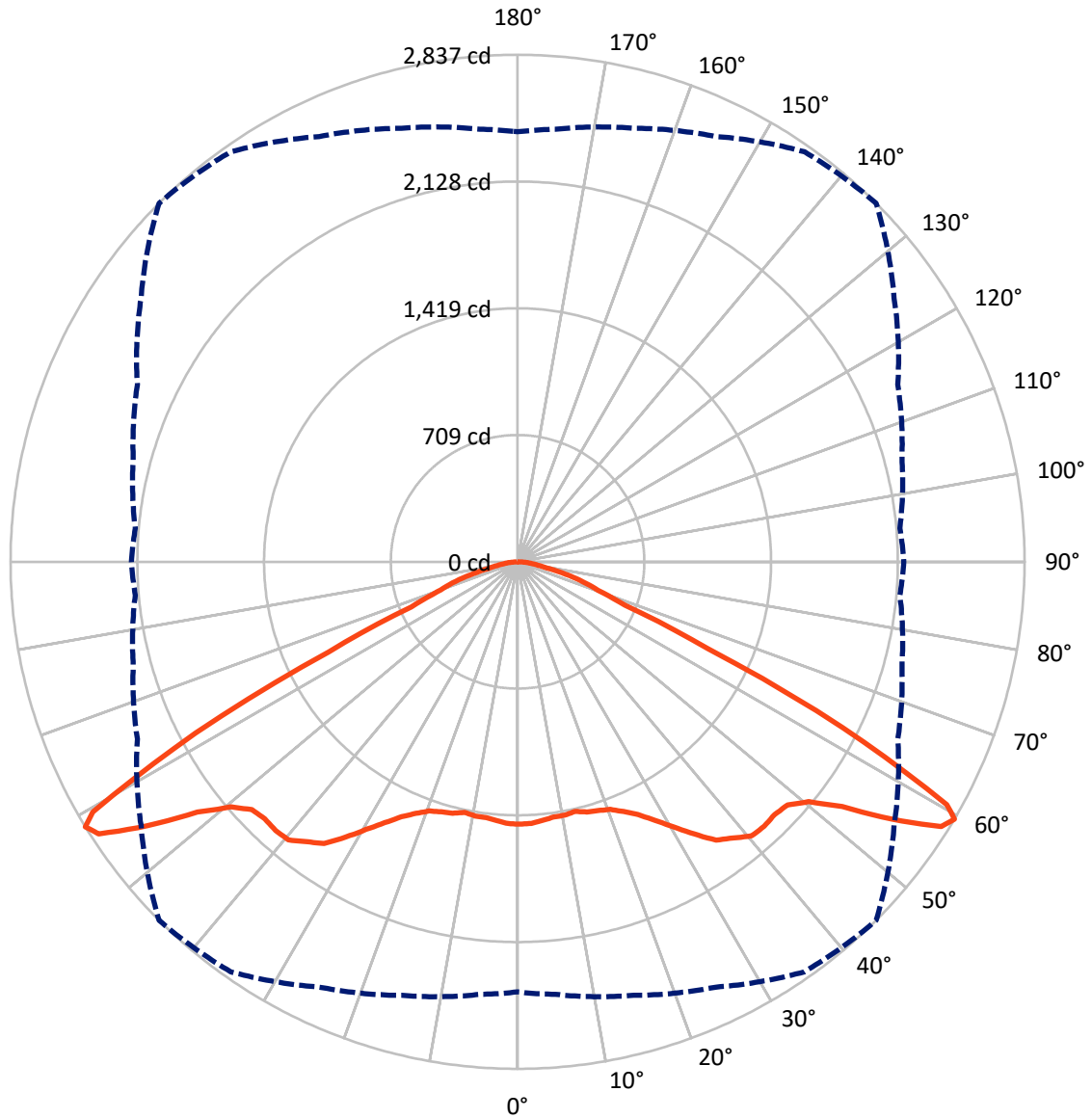
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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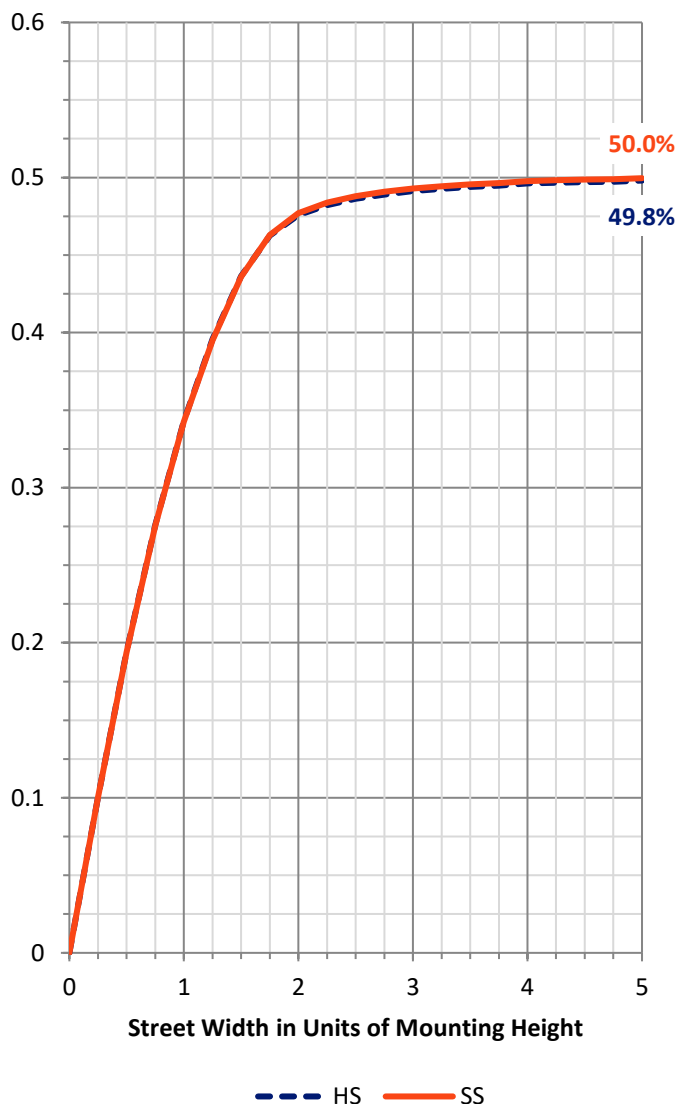
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3800.7	0.0	3800.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3800.7	0.0	3800.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7601.4	0.0	7601.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	1.8
10°-20°	411.6	5.4
20°-30°	718.7	9.5
30°-40°	1147.8	15.1
40°-50°	1563.6	20.6
50°-60°	2114.4	27.8
60°-70°	1159.6	15.3
70°-80°	296.7	3.9
80°-90°	50.6	0.7
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°	7601.4	100.0
0°-180°	7601.4	100.0

**Coefficient of Utilization**



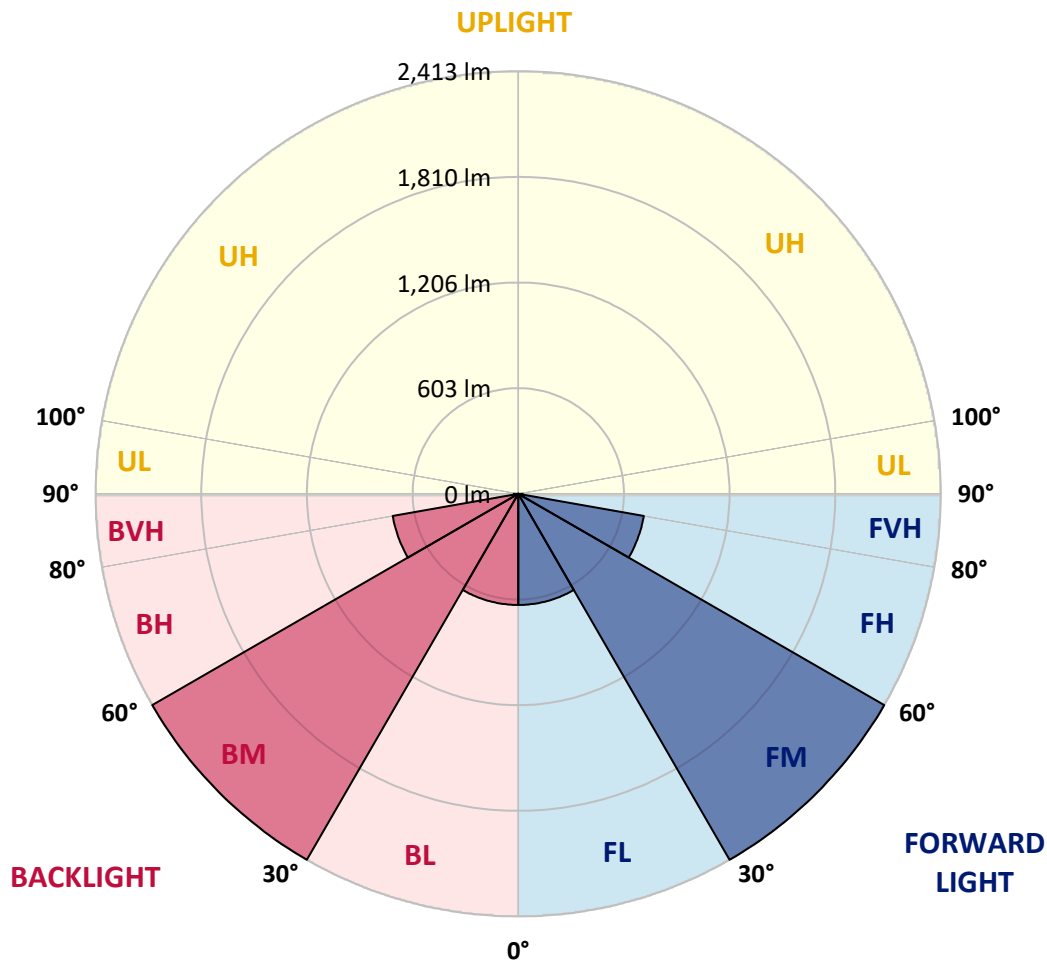
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.3	8.3			
FM (30°-60°)	2412.9	31.7			
FH (60°-80°)	728.1	9.6			G1/1800
FVH (80°-90°)	25.3	0.3			G1/100
BL (0°-30°)	634.3	8.3	B2/1000		
BM (30°-60°)	2412.9	31.7	B2/2500		
BH (60°-80°)	728.1	9.6	B2/1000		G1/1800
BVH (80°-90°)	25.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2	1468.2
2.5°	1459.4	1470.2	1462.4	1469.2	1468.2	1465.3	1460.5	1457.5	1453.6	1459.4	1449.7
5°	1453.6	1462.4	1471.2	1459.4	1459.4	1453.6	1450.7	1444.9	1444.9	1443.9	1442.9
7.5°	1463.3	1454.6	1450.7	1452.6	1454.6	1441.9	1450.7	1439.0	1429.3	1436.1	1443.9
10°	1454.6	1458.5	1443.9	1450.7	1439.9	1441.9	1436.1	1443.9	1433.1	1433.1	1433.1
12.5°	1463.3	1452.6	1457.5	1452.6	1449.7	1433.1	1441.0	1432.2	1431.2	1441.0	1432.2
15°	1480.9	1463.3	1459.4	1449.7	1452.6	1452.6	1444.9	1445.8	1435.1	1441.0	1442.9
17.5°	1475.0	1465.3	1462.4	1450.7	1460.5	1463.3	1448.7	1439.0	1445.8	1444.9	1443.9
20°	1479.9	1483.8	1480.9	1482.8	1486.8	1478.9	1465.3	1451.7	1442.9	1455.5	1454.6
22.5°	1511.1	1507.2	1505.2	1503.3	1510.1	1517.9	1499.4	1478.0	1478.0	1486.8	1490.6
25°	1536.4	1535.5	1534.4	1543.2	1566.6	1566.6	1543.2	1516.0	1509.2	1514.9	1510.1
27.5°	1573.4	1584.2	1580.3	1595.8	1630.0	1637.7	1606.6	1574.4	1555.9	1549.1	1557.9
30°	1658.2	1645.6	1648.4	1665.0	1695.2	1720.6	1672.8	1638.7	1613.4	1612.4	1616.3
32.5°	1714.7	1724.5	1733.2	1748.8	1796.5	1816.0	1758.5	1703.0	1687.4	1678.7	1681.6
35°	1827.8	1819.0	1817.0	1832.6	1880.3	1912.5	1840.4	1791.7	1771.2	1790.7	1790.7
37.5°	1934.9	1910.5	1892.0	1912.5	1956.3	1960.2	1898.9	1872.5	1861.8	1884.2	1883.3
40°	1985.5	1983.6	1940.7	1952.4	2010.9	2016.7	1959.2	1928.1	1926.1	1955.4	1984.6
42.5°	2038.1	2019.7	1976.8	1984.6	2020.6	2022.6	1968.0	1959.2	1980.7	2008.9	2010.9
45°	2046.9	2031.3	2004.1	1984.6	2010.9	2016.7	1984.6	1990.5	1992.3	2026.5	2026.5
47.5°	2064.5	2062.5	2046.9	2032.4	2037.2	2032.4	2011.8	2020.6	2049.9	2066.4	2058.7
50°	2113.2	2092.7	2108.3	2095.6	2096.6	2110.3	2091.8	2100.6	2094.7	2080.0	2070.3
52.5°	2220.4	2210.6	2224.3	2233.0	2242.7	2273.9	2252.5	2205.7	2161.9	2122.9	2121.9
55°	2377.2	2384.0	2410.3	2455.2	2493.2	2542.9	2439.6	2327.5	2257.4	2196.0	2199.9
57.5°	2525.3	2520.4	2556.5	2658.8	2769.9	2795.2	2592.5	2432.8	2318.8	2279.8	2263.2
59°	2406.5	2429.8	2511.6	2625.6	2800.0	2837.0	2572.1	2347.0	2226.2	2147.3	2160.9
60°	2219.4	2228.2	2301.2	2460.0	2695.8	2759.1	2434.7	2214.5	2053.7	2007.9	2028.4
62.5°	1568.6	1561.8	1614.4	1744.0	1955.4	2041.1	1810.2	1655.3	1553.9	1503.3	1514.9
65°	834.0	865.1	886.6	967.5	1079.5	1170.1	1074.6	1007.4	950.9	909.0	908.0
67.5°	563.1	559.2	564.1	582.6	620.6	646.0	644.0	609.9	605.0	597.2	606.0
70°	474.5	472.5	463.8	463.8	471.5	477.4	484.2	488.1	495.9	505.7	504.6
72.5°	384.8	380.0	374.1	371.2	380.9	383.8	392.6	396.5	403.3	402.4	411.2
75°	254.3	254.3	261.1	268.9	271.9	277.7	278.7	290.3	290.3	292.3	284.5
77.5°	142.3	138.4	143.2	151.0	157.9	168.6	179.2	188.0	192.9	191.0	191.0
80°	82.8	82.8	87.7	96.5	105.2	114.9	122.8	129.6	134.4	132.5	128.6
82.5°	51.6	51.6	56.5	65.3	72.1	77.9	88.6	97.4	103.3	101.3	96.5
85°	26.3	26.3	32.2	38.0	46.7	50.7	49.7	45.8	44.8	39.9	39.9
87.5°	6.8	6.8	9.7	10.7	8.8	9.7	9.7	9.7	9.7	9.7	10.7
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)