

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: P527364

Luminaire Tested: **GALN-SA2B-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-827-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7424 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

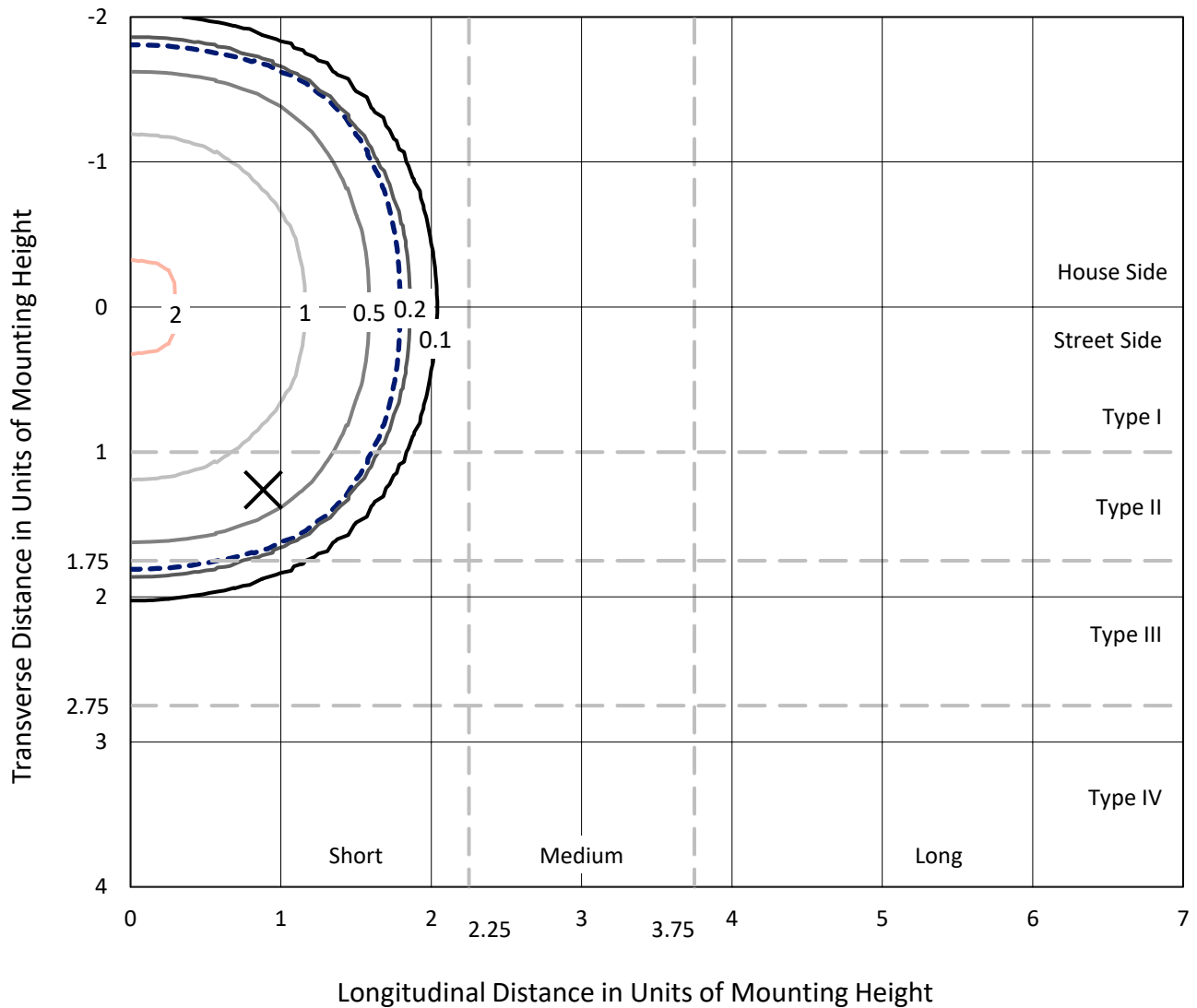
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

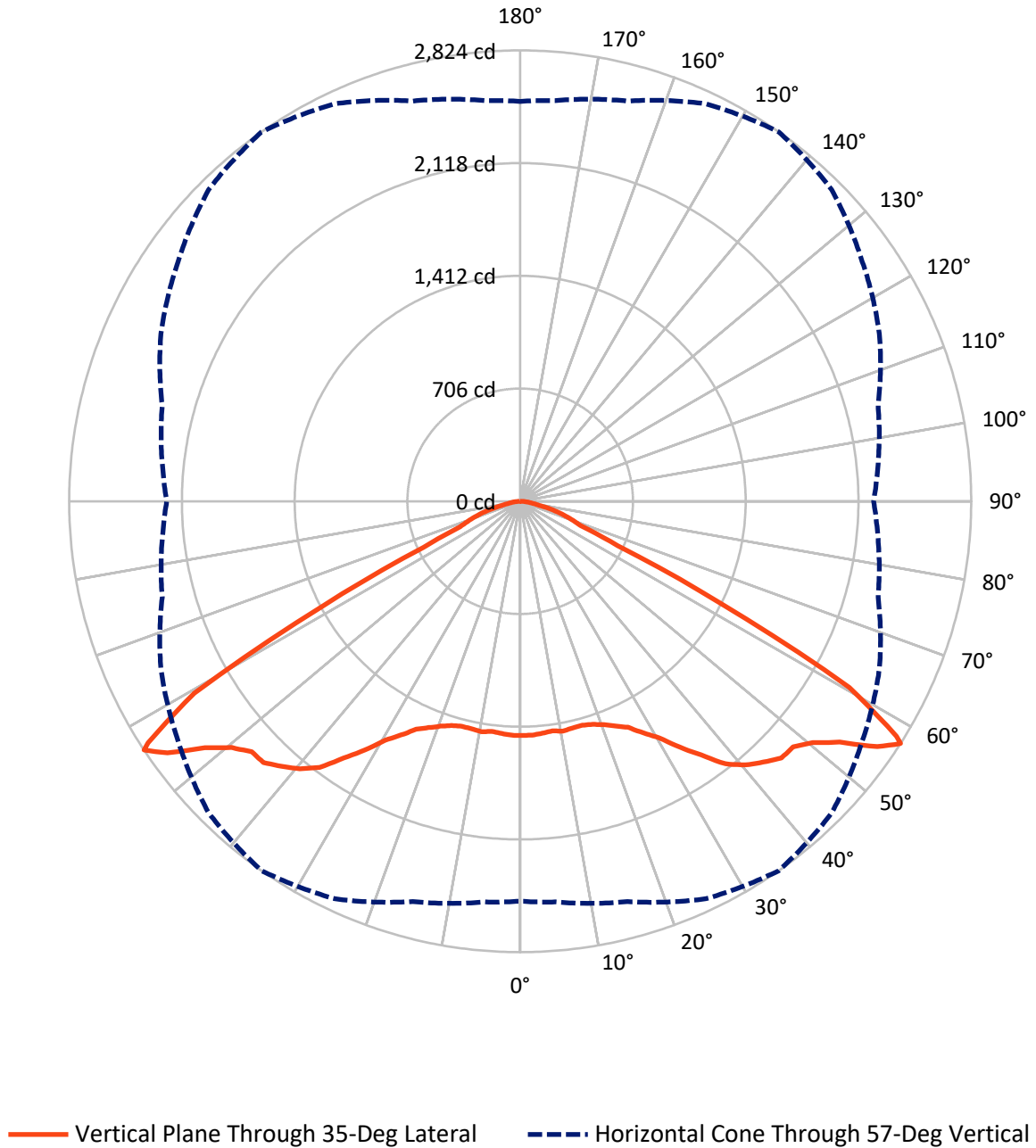
× Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3712.0	0.0	3712.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3712.0	0.0	3712.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7424.0	0.0	7424.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	1.9
10°-20°	411.7	5.5
20°-30°	719.0	9.7
30°-40°	1178.1	15.9
40°-50°	1727.4	23.3
50°-60°	2175.7	29.3
60°-70°	818.3	11.0
70°-80°	217.6	2.9
80°-90°	37.3	0.5
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°	7424.0	100.0
0°-180°	7424.0	100.0



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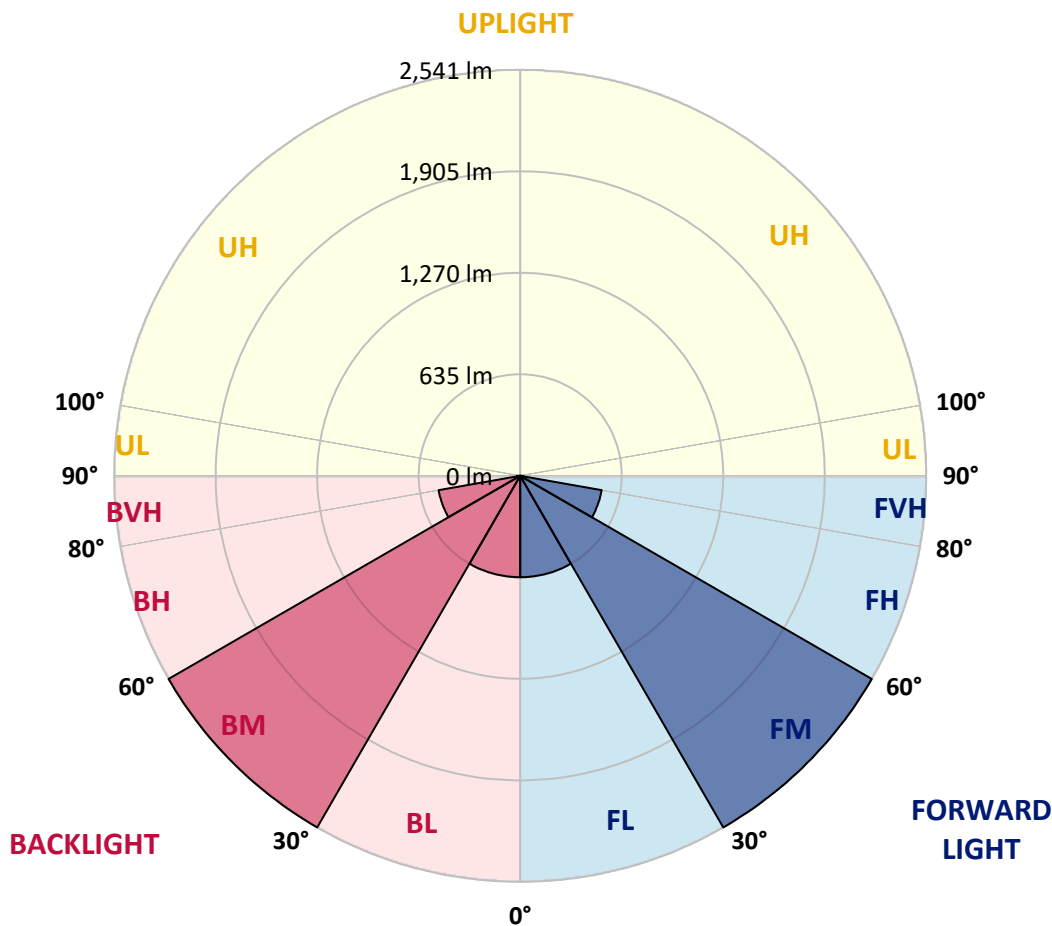
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	634.8	8.6			
FM (30°-60°)	2540.6	34.2			
FH (60°-80°)	517.9	7.0			G0/660
FVH (80°-90°)	18.7	0.3			G1/100
BL (0°-30°)	634.8	8.6	B2/1000		
BM (30°-60°)	2540.6	34.2	B3/5000		
BH (60°-80°)	517.9	7.0	B2/1000		G0/660
BVH (80°-90°)	18.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2	1466.2
2.5°	1458.9	1473.5	1467.1	1463.4	1466.2	1461.6	1454.3	1462.5	1460.7	1453.4	1450.6
5°	1455.2	1466.2	1458.9	1466.2	1458.9	1471.7	1468.0	1454.3	1470.8	1455.2	1460.7
7.5°	1452.5	1456.1	1458.0	1454.3	1451.6	1467.1	1458.9	1452.5	1443.3	1440.6	1445.1
10°	1446.1	1455.2	1441.5	1459.8	1463.4	1452.5	1452.5	1440.6	1433.3	1428.7	1444.2
12.5°	1462.5	1447.0	1445.1	1454.3	1457.0	1461.6	1448.8	1442.4	1428.7	1430.5	1427.8
15°	1443.3	1449.7	1450.6	1452.5	1455.2	1466.2	1454.3	1440.6	1435.1	1415.9	1417.7
17.5°	1450.6	1444.2	1450.6	1471.7	1468.0	1476.2	1463.4	1442.4	1429.6	1418.6	1433.3
20°	1463.4	1460.7	1463.4	1489.1	1493.6	1500.9	1490.0	1470.8	1446.1	1433.3	1440.6
22.5°	1477.2	1475.3	1477.2	1501.9	1528.4	1537.5	1526.6	1481.7	1468.9	1445.1	1436.9
25°	1501.9	1503.7	1522.9	1550.3	1567.7	1585.1	1565.0	1533.0	1491.8	1477.2	1459.8
27.5°	1556.7	1561.3	1572.3	1612.5	1642.7	1658.3	1629.9	1586.0	1560.4	1530.2	1525.6
30°	1624.4	1624.4	1643.6	1678.4	1719.5	1743.3	1708.6	1656.4	1625.3	1608.9	1598.8
32.5°	1714.1	1704.0	1711.3	1772.6	1836.6	1856.7	1810.1	1746.1	1696.7	1674.7	1667.4
35°	1790.9	1797.3	1813.8	1879.6	1951.0	1997.6	1924.4	1841.2	1790.9	1770.8	1767.1
37.5°	1890.6	1901.6	1909.8	2000.3	2086.3	2103.7	2033.3	1966.5	1905.2	1888.8	1879.6
40°	2031.4	2024.1	2026.9	2093.6	2171.4	2182.4	2112.8	2065.3	2015.0	2004.9	2004.9
42.5°	2147.6	2139.4	2148.5	2173.2	2232.7	2224.4	2186.0	2151.3	2130.2	2119.2	2130.2
45°	2218.0	2216.2	2232.7	2251.0	2293.0	2265.6	2235.4	2240.9	2220.8	2202.5	2201.6
47.5°	2294.9	2283.0	2303.1	2330.5	2298.5	2285.7	2283.9	2295.8	2289.4	2257.4	2247.3
50°	2332.4	2327.8	2359.8	2391.8	2374.4	2345.2	2351.6	2370.8	2288.5	2245.5	2220.8
52.5°	2433.0	2433.9	2495.2	2512.5	2505.2	2462.2	2476.0	2423.8	2326.9	2266.5	2269.2
55°	2591.2	2584.8	2653.4	2704.6	2712.9	2658.0	2592.1	2518.9	2397.3	2336.0	2317.7
57°	2504.3	2518.9	2594.9	2746.7	2823.5	2758.6	2615.0	2481.4	2319.6	2245.5	2212.5
57.5°	2388.2	2411.9	2543.6	2696.4	2776.9	2771.4	2586.6	2411.9	2267.4	2152.2	2154.9
60°	1749.7	1754.3	1873.2	2115.6	2367.1	2372.6	2147.6	1916.2	1755.2	1629.9	1647.3
62.5°	922.9	943.9	991.5	1186.3	1404.0	1457.0	1320.8	1201.9	1062.8	967.7	976.8
65°	488.4	485.7	508.5	563.4	670.4	697.9	679.6	585.4	536.9	521.4	522.3
67.5°	397.0	401.5	398.8	401.5	408.8	420.7	418.0	421.7	424.4	429.0	428.1
70°	336.6	336.6	338.4	339.3	339.3	344.8	351.2	363.1	364.0	368.6	370.4
72.5°	265.2	263.4	266.2	272.6	273.5	278.1	287.2	294.5	297.3	297.3	291.8
75°	180.2	182.0	185.7	191.2	196.6	204.9	212.2	216.8	218.6	215.9	213.1
77.5°	101.5	103.4	106.1	114.3	120.7	128.1	136.3	140.9	145.4	146.3	140.9
80°	60.4	60.4	64.9	71.3	78.7	86.0	93.3	98.8	100.6	100.6	97.9
82.5°	36.6	37.5	41.2	47.6	54.0	58.5	64.9	69.5	73.2	72.3	70.4
85°	19.2	19.2	22.9	28.4	32.9	37.5	37.5	34.8	32.9	28.4	26.5
87.5°	6.4	5.5	7.3	7.3	6.4	7.3	7.3	8.2	8.2	8.2	8.2
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)