

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: P648247

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8070.4 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

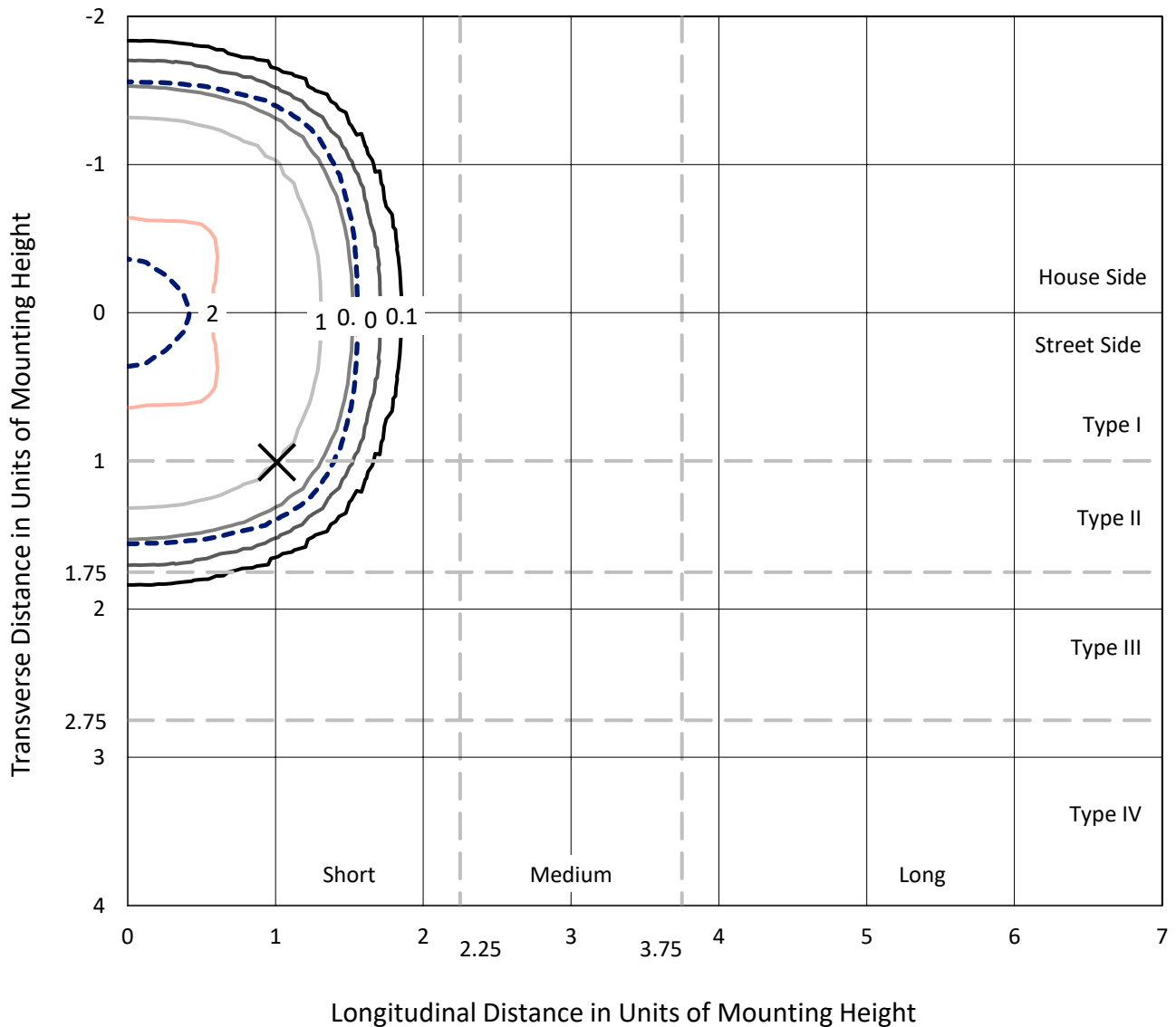
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

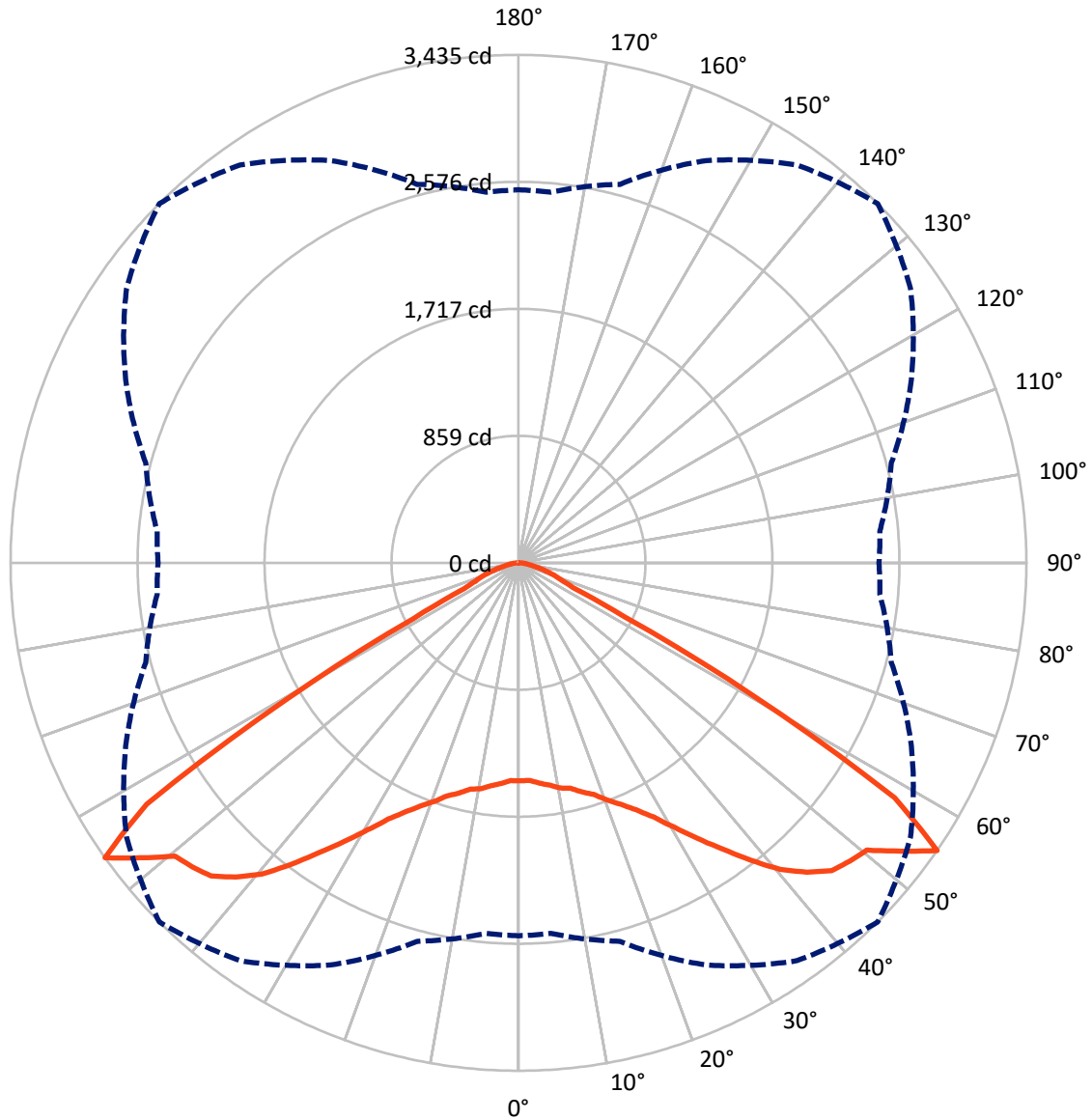
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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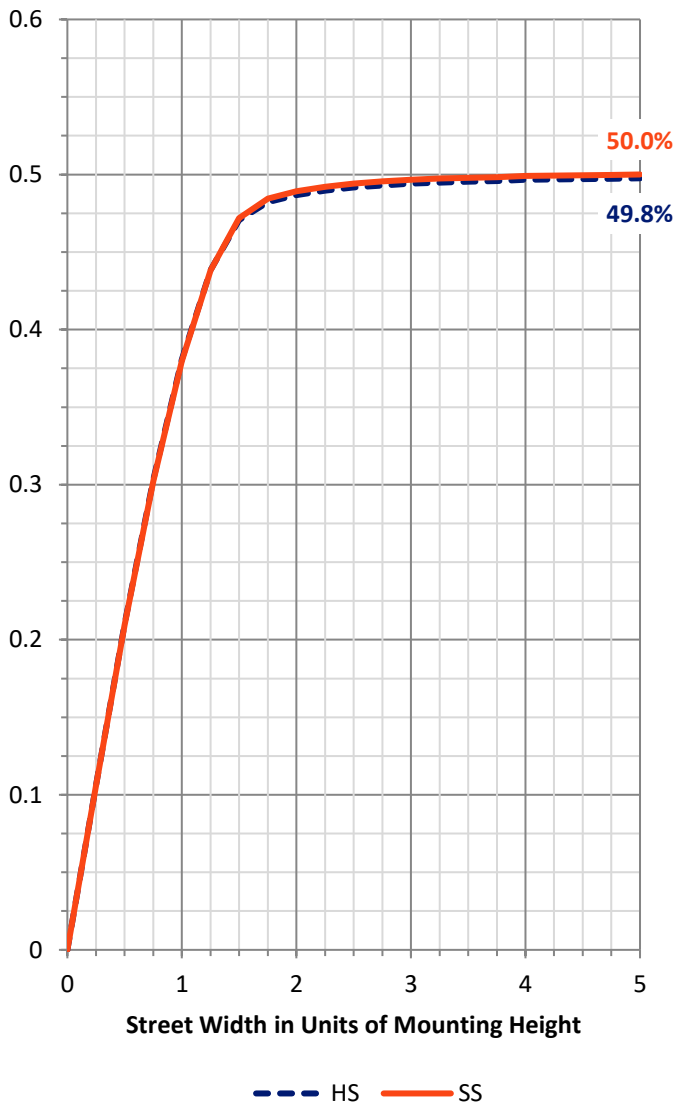
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4035.2	0.0	4035.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4035.2	0.0	4035.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	8070.4	0.0	8070.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.9	1.8
10°-20°	456.1	5.7
20°-30°	850.5	10.5
30°-40°	1424.0	17.6
40°-50°	2215.9	27.5
50°-60°	2300.8	28.5
60°-70°	487.9	6.0
70°-80°	160.7	2.0
80°-90°	30.6	0.4
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°	8070.4	100.0
0°-180°	8070.4	100.0

Coefficient of Utilization



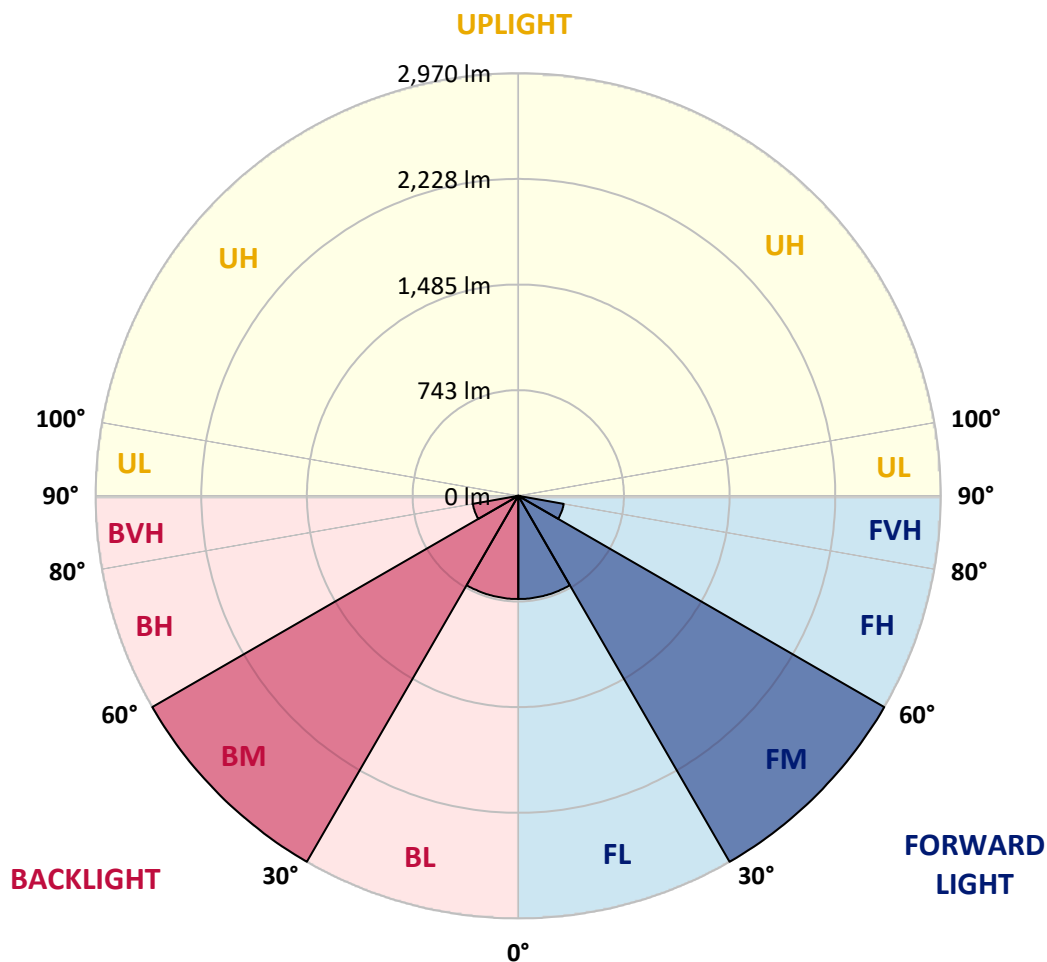
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	725.3	9.0			
FM (30°-60°)	2970.3	36.8			
FH (60°-80°)	324.3	4.0			G0/660
FVH (80°-90°)	15.3	0.2			G1/100
BL (0°-30°)	725.3	9.0	B2/1000		
BM (30°-60°)	2970.3	36.8	B3/5000		
BH (60°-80°)	324.3	4.0	B1/500		G0/660
BVH (80°-90°)	15.3	0.2			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°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1491.1	1484.3	1472.6	1481.4	1488.2	1473.5	1479.4	1482.3	1480.3	1472.6	1475.5
5°	1512.5	1508.6	1498.9	1505.7	1496.9	1496.9	1491.1	1483.3	1495.0	1493.0	1497.9
7.5°	1512.5	1507.7	1527.2	1514.5	1518.4	1518.4	1508.6	1500.9	1506.7	1497.9	1493.0
10°	1542.7	1549.6	1540.8	1543.8	1541.8	1548.6	1534.0	1529.1	1524.3	1521.3	1515.5
12.5°	1578.8	1574.0	1576.9	1574.9	1581.8	1564.2	1555.4	1544.7	1553.5	1540.8	1549.6
15°	1608.1	1605.2	1608.1	1615.9	1609.1	1608.1	1592.5	1581.8	1568.1	1571.1	1557.4
17.5°	1648.1	1645.2	1646.2	1653.0	1652.0	1647.1	1635.5	1614.9	1610.1	1602.3	1593.5
20°	1707.6	1702.7	1700.8	1703.7	1708.6	1712.4	1689.1	1681.3	1664.7	1652.0	1637.3
22.5°	1758.3	1756.3	1764.2	1751.5	1762.2	1773.9	1751.5	1747.6	1706.6	1699.8	1684.2
25°	1828.5	1825.6	1820.7	1839.3	1851.9	1850.9	1829.5	1808.0	1776.8	1769.0	1769.0
27.5°	1902.6	1886.0	1911.4	1916.2	1938.7	1945.5	1927.0	1895.8	1866.5	1850.0	1853.8
30°	1995.2	1979.7	1985.5	2020.6	2049.9	2075.3	2028.4	1982.6	1941.6	1912.4	1907.5
32.5°	2087.9	2072.3	2089.8	2124.0	2182.5	2220.5	2174.7	2094.8	2046.9	2004.0	2012.8
35°	2163.0	2174.7	2203.0	2254.6	2315.1	2376.6	2303.4	2242.0	2173.8	2125.9	2132.7
37.5°	2283.9	2320.0	2342.4	2401.9	2487.7	2551.1	2475.1	2395.1	2322.0	2259.6	2238.1
40°	2441.9	2466.3	2491.7	2561.8	2663.3	2726.6	2654.5	2550.2	2478.0	2413.6	2410.7
42.5°	2615.5	2638.9	2665.3	2751.1	2811.5	2859.3	2793.0	2737.4	2657.4	2606.7	2603.8
45°	2817.4	2800.8	2830.1	2886.6	2937.3	2968.5	2925.6	2898.3	2840.8	2794.0	2789.0
47.5°	2951.9	2937.3	2990.0	3040.7	3048.5	3014.3	3023.2	3048.5	2988.0	2911.0	2935.4
50°	3030.0	3030.0	3065.1	3111.9	3097.2	3053.4	3122.6	3124.6	3064.1	2995.8	2995.8
52.5°	2894.4	2924.7	3024.1	3177.2	3226.0	3238.6	3223.1	3156.7	2998.7	2859.3	2852.5
55°	2521.9	2515.1	2649.6	3000.7	3284.5	3434.6	3235.7	2930.5	2609.7	2452.7	2437.0
57.5°	1640.3	1648.1	1849.0	2206.9	2718.9	2998.7	2663.3	2234.2	1849.0	1632.5	1653.0
60°	738.2	764.5	886.4	1153.7	1593.5	1821.6	1597.4	1212.2	930.4	807.4	818.2
62.5°	424.2	429.1	433.9	514.9	678.7	802.6	705.1	544.2	479.8	458.4	458.4
65°	357.9	355.0	356.0	362.8	380.3	405.7	394.9	380.3	382.3	380.3	377.4
67.5°	304.3	308.2	305.2	310.1	311.1	315.0	321.8	327.7	328.6	330.6	328.6
70°	249.6	250.6	252.6	256.5	257.5	260.3	270.1	275.0	278.0	278.0	281.8
72.5°	191.1	190.2	192.1	196.0	200.9	201.9	210.6	217.4	221.4	216.5	217.4
75°	125.8	126.8	129.7	132.6	139.5	146.3	149.2	156.1	157.0	158.9	154.1
77.5°	75.1	77.0	79.9	85.8	91.7	97.5	104.4	109.2	111.2	109.2	103.4
80°	48.8	48.8	52.7	57.6	64.4	69.2	73.1	77.0	79.9	77.0	75.1
82.5°	30.2	30.2	35.1	41.0	45.8	48.8	54.6	59.5	62.4	60.4	57.6
85°	15.6	16.6	20.5	25.4	29.3	31.2	30.2	27.3	24.4	23.4	21.5
87.5°	4.9	4.9	5.9	5.9	4.9	4.9	5.9	4.9	5.9	5.9	5.9
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)