

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: P451540

Luminaire Tested: **GALN-SA2B-830-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451540
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-830-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9077 lumens
Efficiency: N/A
Efficacy: 110.7 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

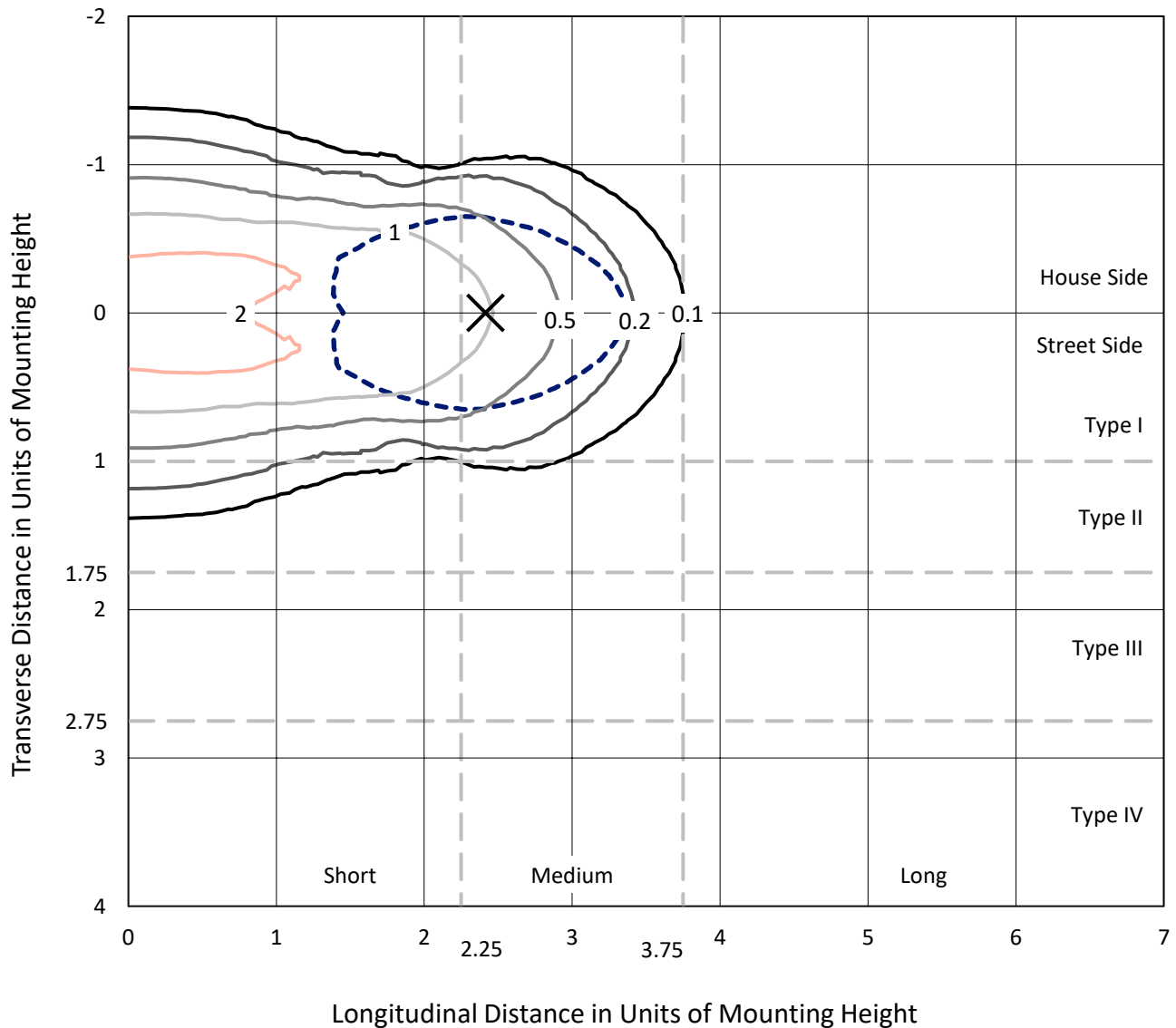


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

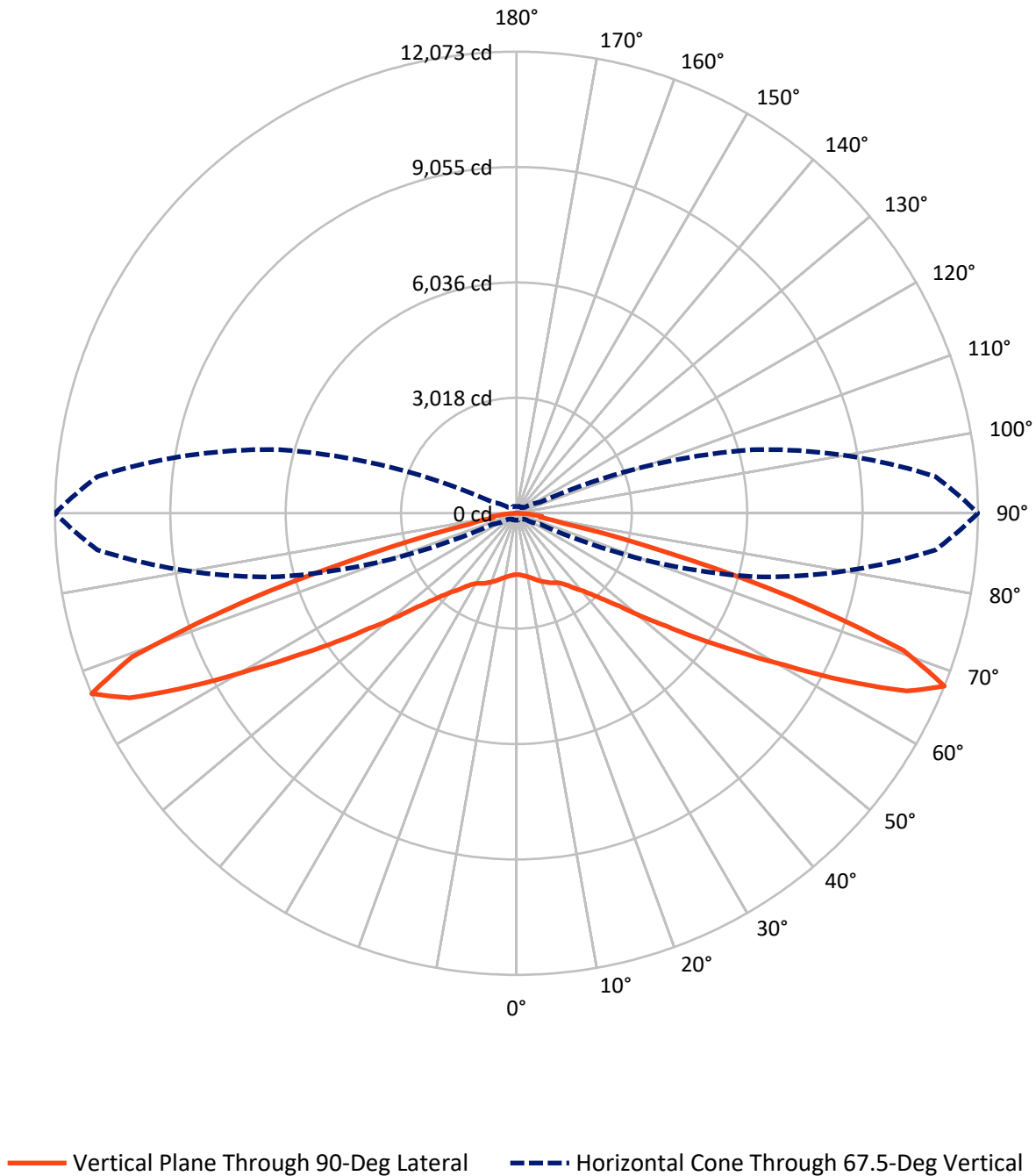


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4538.5	0.0	4538.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4538.5	0.0	4538.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9077.0	0.0	9077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	1.8
10°-20°	512.6	5.6
20°-30°	857.9	9.5
30°-40°	1162.3	12.8
40°-50°	1472.2	16.2
50°-60°	1839.2	20.3
60°-70°	2161.8	23.8
70°-80°	827.0	9.1
80°-90°	83.8	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°	9077.0	100.0
0°-180°	9077.0	100.0

Coefficient of Utilization



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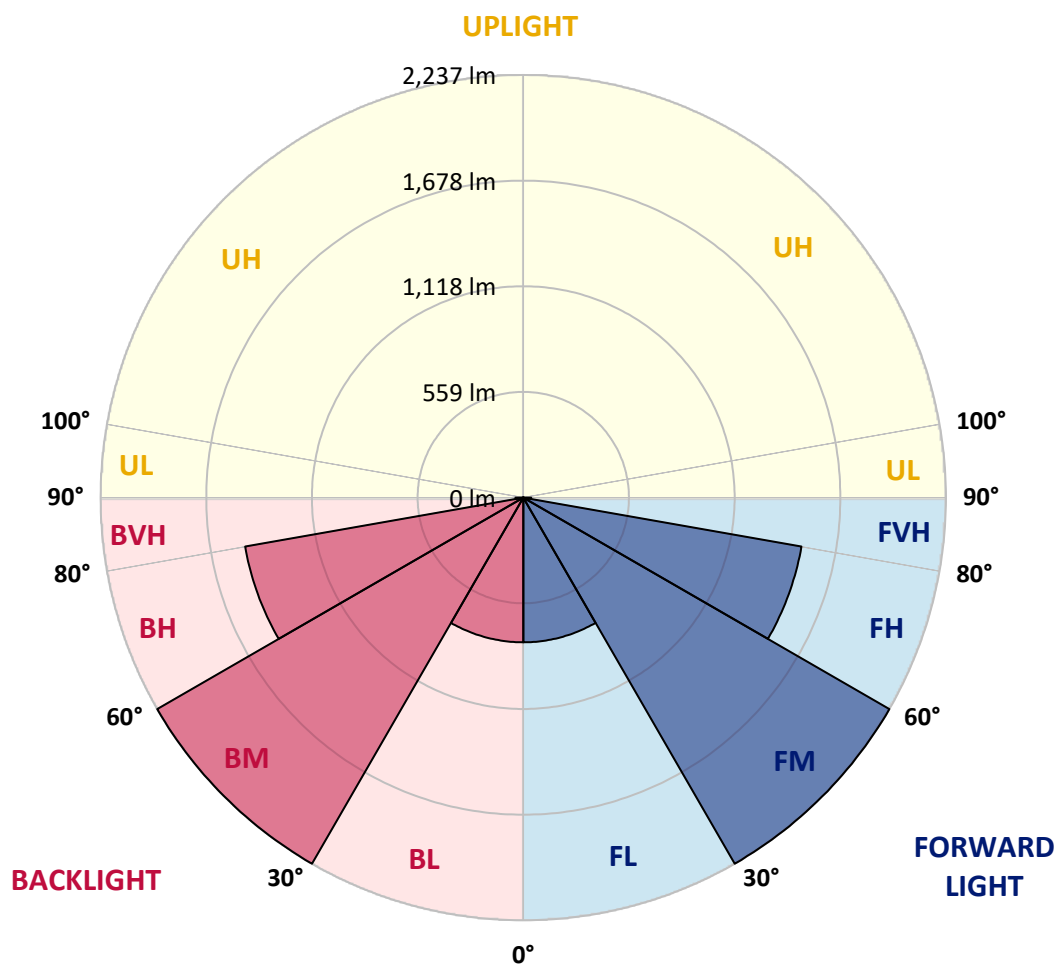
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	765.4	8.4			
FM	(30°-60°)	2236.8	24.6			
FH	(60°-80°)	1494.4	16.5			G1/1800
FVH	(80°-90°)	41.9	0.5			G1/100
BL	(0°-30°)	765.4	8.4	B2/1000		
BM	(30°-60°)	2236.8	24.6	B2/2500		
BH	(60°-80°)	1494.4	16.5	B3/2500		G3/2500
BVH	(80°-90°)	41.9	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°	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9
2.5°	1627.5	1626.5	1627.0	1626.5	1628.0	1627.0	1621.0	1616.0	1611.9	1612.4	1610.9
5°	1662.2	1662.7	1663.2	1660.7	1664.2	1662.2	1652.7	1644.6	1636.6	1633.6	1632.5
7.5°	1690.9	1693.4	1694.9	1697.4	1703.4	1703.4	1698.4	1686.8	1669.2	1659.2	1658.7
10°	1719.5	1721.5	1726.0	1734.1	1744.1	1753.7	1751.7	1736.1	1713.5	1696.4	1692.4
12.5°	1729.6	1732.1	1747.1	1770.3	1792.9	1811.5	1811.5	1798.9	1769.8	1743.6	1736.1
15°	1694.4	1698.9	1726.0	1775.3	1834.6	1875.3	1884.4	1866.8	1835.6	1795.4	1786.4
17.5°	1624.5	1635.6	1675.3	1748.2	1846.7	1931.1	1957.2	1948.7	1908.5	1857.2	1846.7
20°	1549.6	1561.7	1603.9	1700.4	1836.6	1963.8	2039.7	2041.7	1991.9	1917.5	1902.0
22.5°	1467.2	1476.2	1530.5	1643.6	1806.5	1971.3	2110.5	2145.2	2077.9	1977.9	1955.7
25°	1374.7	1384.7	1441.5	1563.7	1749.7	1962.8	2175.4	2251.8	2167.8	2042.2	2014.0
27.5°	1286.2	1290.3	1351.1	1475.2	1674.8	1940.7	2223.1	2349.8	2267.4	2095.5	2059.8
30°	1201.3	1210.8	1264.6	1387.3	1588.8	1897.4	2264.4	2461.4	2374.4	2151.3	2105.5
32.5°	1111.3	1122.9	1181.2	1305.3	1502.9	1832.6	2289.5	2583.5	2523.7	2241.7	2193.0
35°	1024.9	1032.4	1091.2	1211.8	1418.9	1757.2	2294.0	2721.2	2716.2	2379.0	2314.1
37.5°	936.4	947.5	1006.8	1122.4	1330.0	1677.3	2271.4	2867.5	2948.4	2569.5	2499.6
40°	851.5	861.0	919.3	1035.9	1228.9	1579.8	2217.6	3001.2	3219.4	2765.5	2666.5
42.5°	759.0	761.5	825.3	943.9	1129.9	1466.7	2140.2	3120.3	3521.4	3028.4	2905.2
45°	653.9	660.5	719.8	836.4	1016.3	1340.0	2035.2	3218.8	3904.4	3392.8	3224.9
47.5°	548.9	554.4	608.7	723.8	892.2	1194.8	1873.3	3305.3	4297.5	3855.7	3635.5
50°	446.3	449.4	493.6	595.6	752.4	1042.0	1672.8	3332.9	4741.8	4511.1	4230.1
52.5°	352.8	357.4	391.0	471.0	603.2	861.5	1456.1	3264.6	5260.5	5288.2	4892.1
55°	286.0	287.5	312.6	371.4	471.5	672.5	1194.8	3074.1	5818.5	6283.9	5778.7
57.5°	246.3	247.3	261.4	294.0	362.9	507.2	926.9	2713.7	6319.6	7450.5	6801.1
60°	223.7	224.2	232.2	251.3	287.5	389.0	664.0	2205.0	6814.2	8748.8	8071.8
62.5°	209.6	209.6	215.1	225.7	243.3	298.6	481.0	1590.8	7152.9	10066.2	9638.0
65°	196.0	196.0	200.0	207.6	217.1	244.3	355.4	1037.4	7144.4	11025.7	11213.2
67.5°	180.4	180.4	183.5	191.0	196.5	210.1	274.4	679.6	6417.6	11004.6	12072.7
70°	161.8	161.8	165.9	172.4	176.9	185.5	216.6	464.9	4714.7	9396.2	10736.7
72.5°	143.2	143.8	146.3	152.8	156.3	161.3	179.9	325.7	2892.1	6398.0	7507.3
75°	122.6	123.6	126.2	132.7	135.7	137.7	151.8	232.2	1463.2	3449.6	3927.6
77.5°	99.0	101.0	102.5	109.6	111.6	114.6	125.2	167.9	642.4	1239.5	1250.5
80°	72.4	74.9	79.4	85.9	87.5	89.5	95.5	119.1	291.0	566.0	614.7
82.5°	53.3	56.8	51.3	59.8	59.8	57.3	67.4	79.9	133.7	560.4	670.5
85°	29.2	29.7	26.6	30.7	32.7	32.2	35.7	39.2	64.8	374.0	385.5
87.5°	7.0	7.5	8.0	9.5	11.6	11.6	12.6	11.1	21.1	121.1	69.4
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)