

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: P947921

Luminaire Tested: **GALN-SB3A-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947921
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3A-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13257 lumens
Efficiency: N/A
Efficacy: 156.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

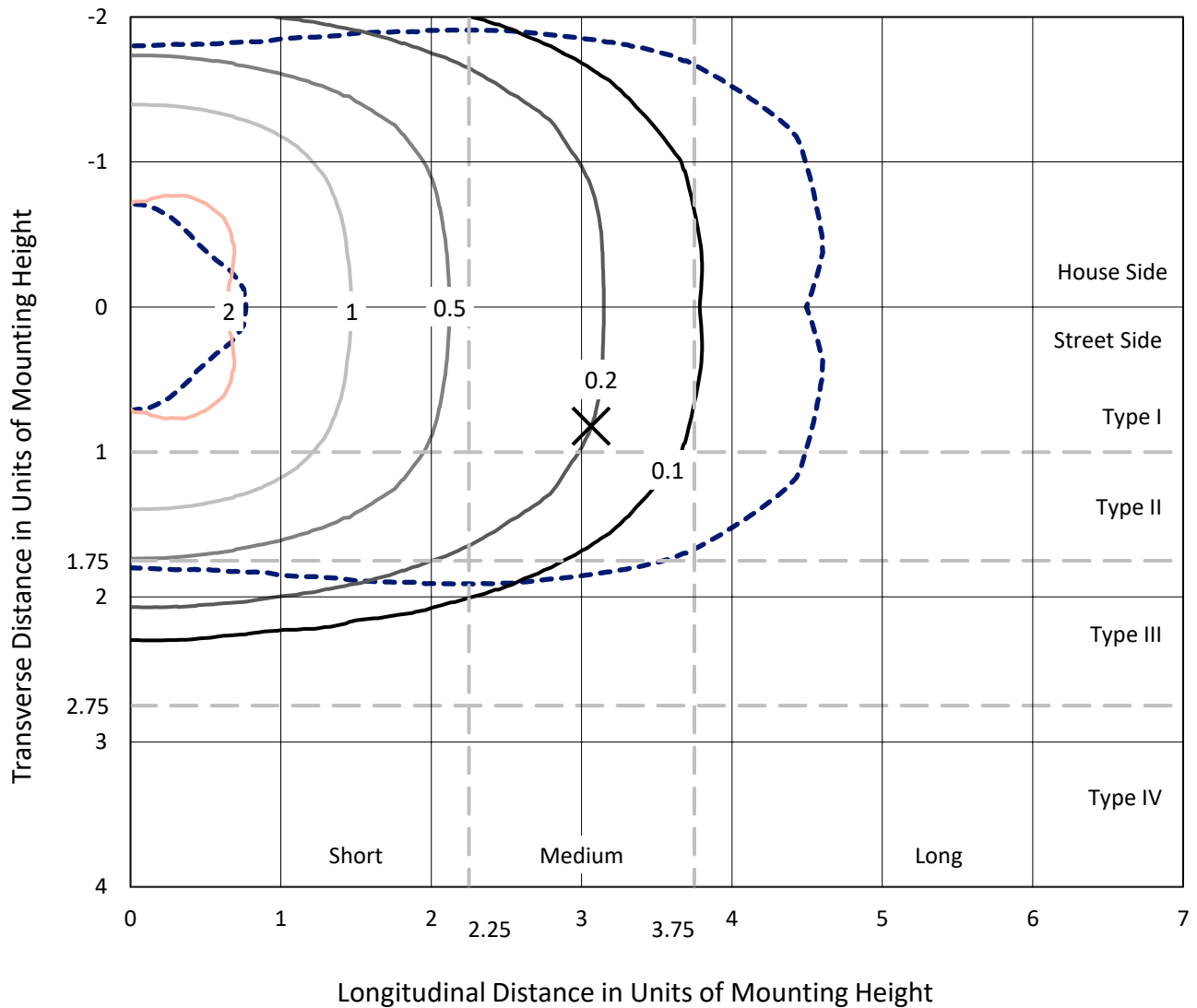
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

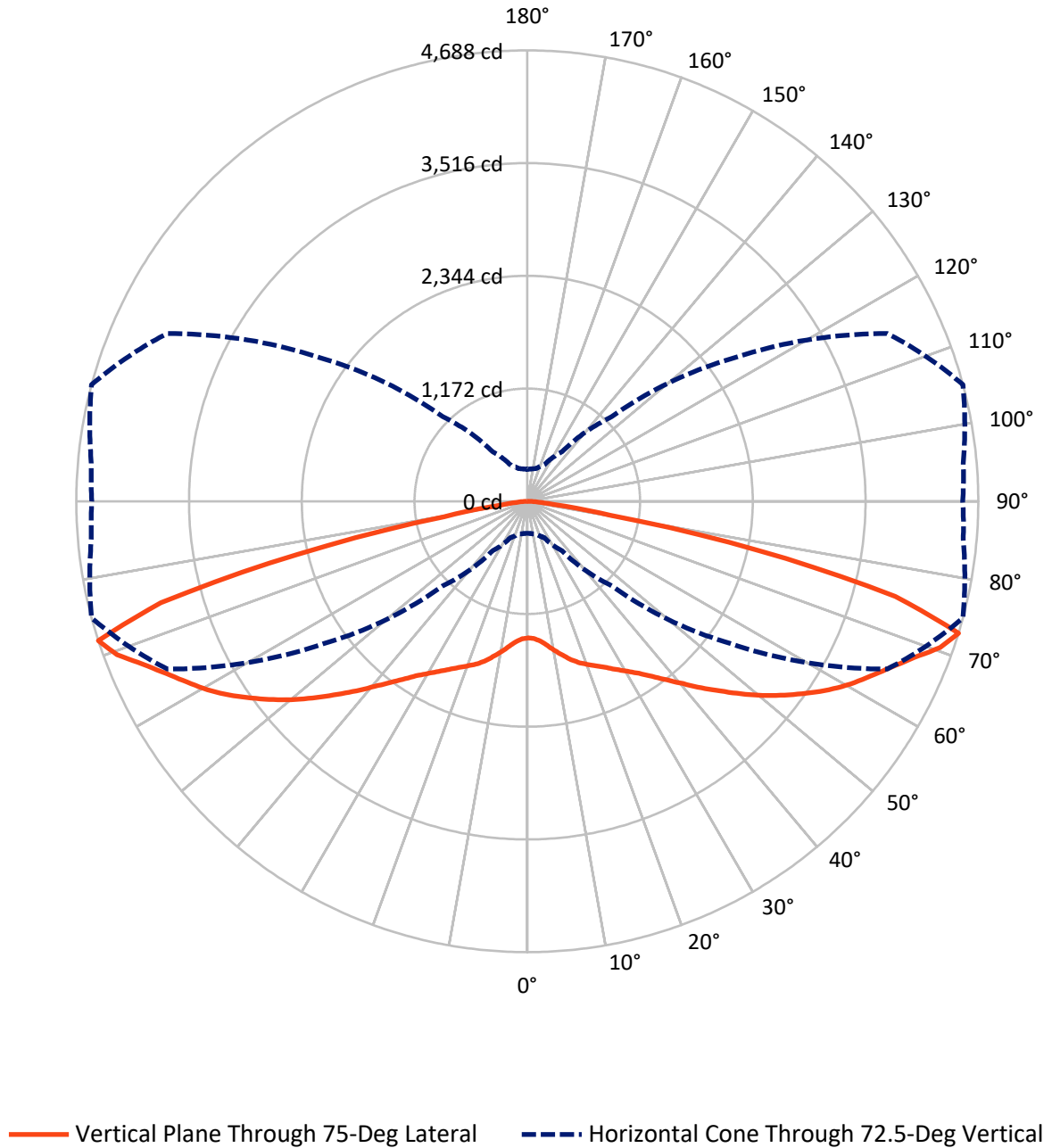
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6628.5	0.0	6628.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6628.5	0.0	6628.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13257.0	0.0	13257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.0
10°-20°	458.8	3.5
20°-30°	886.5	6.7
30°-40°	1497.0	11.3
40°-50°	2374.0	17.9
50°-60°	3178.6	24.0
60°-70°	3025.0	22.8
70°-80°	1578.5	11.9
80°-90°	119.5	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°	13257.0	100.0
0°-180°	13257.0	100.0

Coefficient of Utilization



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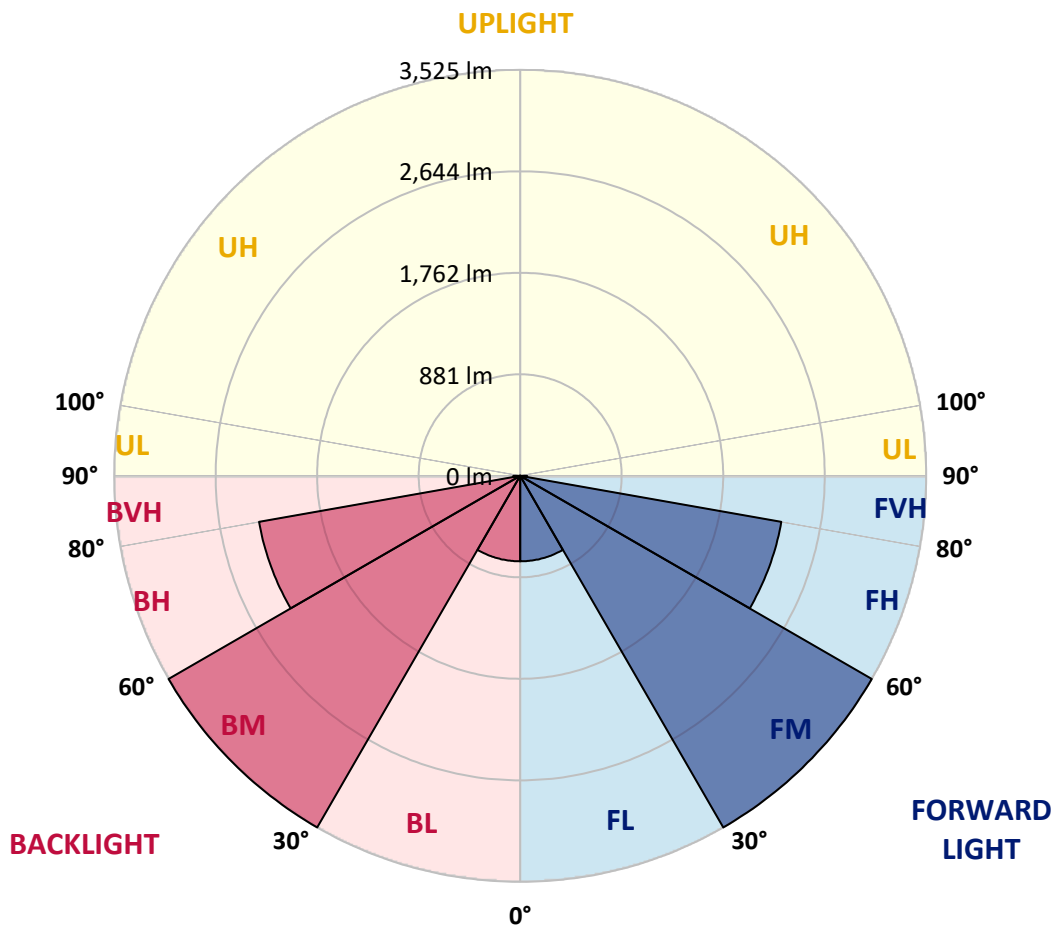
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	742.2	5.6			
FM (30°-60°)	3524.8	26.6			
FH (60°-80°)	2301.7	17.4			G2/5000
FVH (80°-90°)	59.7	0.5			G1/100
BL (0°-30°)	742.2	5.6	B2/1000		
BM (30°-60°)	3524.8	26.6	B3/5000		
BH (60°-80°)	2301.7	17.4	B3/2500		G3/2500
BVH (80°-90°)	59.7	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1	1420.1
2.5°	1420.1	1418.7	1420.1	1421.4	1420.7	1420.7	1424.1	1426.2	1430.2	1429.5
5°	1410.6	1409.9	1415.3	1421.4	1426.2	1434.3	1444.4	1451.9	1461.4	1463.4
7.5°	1405.8	1403.8	1413.3	1424.1	1439.0	1459.3	1478.9	1499.3	1515.5	1520.9
10°	1409.2	1409.9	1422.8	1443.1	1466.8	1495.2	1522.9	1557.5	1580.5	1585.9
12.5°	1424.8	1423.4	1445.1	1477.6	1510.1	1546.0	1578.4	1616.4	1641.4	1654.3
15°	1453.2	1450.5	1481.0	1529.0	1576.4	1618.4	1644.8	1680.7	1709.8	1726.0
17.5°	1487.1	1488.4	1528.4	1590.6	1652.9	1700.3	1725.3	1743.6	1765.9	1780.2
20°	1546.6	1549.3	1594.0	1667.8	1738.9	1793.0	1813.3	1806.6	1812.6	1823.5
22.5°	1626.5	1627.9	1677.9	1757.8	1832.3	1891.8	1905.4	1877.6	1860.7	1868.1
25°	1719.2	1728.0	1778.1	1860.0	1936.5	1993.4	1999.5	1957.5	1915.5	1917.6
27.5°	1832.3	1840.4	1891.2	1972.4	2050.2	2099.6	2099.0	2042.8	1981.2	1965.6
30°	1954.8	1963.6	2015.7	2099.6	2172.1	2215.4	2205.9	2138.9	2050.9	2021.8
32.5°	2100.3	2105.7	2158.5	2242.5	2309.5	2344.0	2324.4	2241.8	2132.1	2099.0
35°	2276.3	2284.4	2323.7	2402.9	2461.8	2490.2	2457.0	2359.6	2236.4	2199.1
37.5°	2477.3	2471.9	2516.6	2587.0	2635.7	2653.3	2608.0	2492.2	2355.5	2311.5
40°	2687.2	2684.4	2733.2	2800.9	2827.3	2838.1	2771.1	2644.5	2492.9	2445.5
42.5°	2877.4	2875.3	2941.0	3016.1	3047.9	3035.7	2951.1	2806.3	2652.0	2597.8
45°	3029.6	3026.9	3107.5	3213.1	3275.3	3255.0	3141.3	2985.0	2813.0	2756.9
47.5°	3146.7	3148.1	3234.7	3365.4	3474.3	3481.8	3335.6	3167.0	2990.4	2926.8
50°	3231.4	3235.4	3328.1	3473.0	3621.9	3687.6	3533.9	3353.9	3173.8	3102.1
52.5°	3252.3	3259.8	3371.5	3541.4	3716.7	3841.9	3735.6	3533.2	3347.8	3279.4
55°	3140.7	3155.5	3297.0	3535.9	3774.9	3943.4	3913.0	3715.3	3523.1	3452.7
57.5°	2884.1	2905.1	3070.3	3382.3	3762.0	4013.1	4050.4	3889.9	3698.4	3630.7
60°	2524.7	2549.7	2708.1	3048.6	3580.6	4038.9	4147.1	4059.8	3859.5	3793.8
62.5°	1982.5	2015.0	2204.5	2603.9	3197.5	3919.0	4229.7	4213.5	4004.3	3922.4
65°	1271.8	1306.3	1506.0	1977.8	2686.5	3552.2	4255.4	4363.1	4157.3	4042.9
67.5°	766.9	782.5	881.3	1198.7	1963.6	2999.2	4037.5	4528.9	4336.0	4193.9
70°	490.7	499.5	558.4	703.9	1110.1	2188.3	3497.4	4560.0	4552.6	4348.9
72.5°	333.0	335.7	351.3	416.9	628.1	1243.4	2579.5	4128.2	4688.0	4548.5
75°	243.7	258.6	283.6	295.1	356.7	621.4	1478.3	2900.4	3950.9	4011.8
77.5°	181.4	182.1	216.6	230.1	254.5	331.0	625.4	1619.1	2453.0	2575.5
80°	153.6	145.5	144.8	185.5	191.6	206.4	279.5	559.1	878.6	532.7
82.5°	127.9	119.1	107.6	144.8	130.6	126.6	121.2	227.4	279.5	137.4
85°	89.3	85.3	81.2	94.8	74.5	63.6	58.2	106.3	117.8	58.2
87.5°	38.6	39.9	40.6	42.0	31.1	22.3	22.3	29.8	29.8	23.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1420.1
1428.9
1463.4
1522.3
1591.3
1659.7
1732.1
1786.9
1831.6
1873.6
1920.9
1970.4
2025.2
2107.1
2204.5
2319.6
2461.1
2611.3
2769.7
2945.7
3123.7
3297.0
3472.3
3646.3
3808.0
3931.9
4057.1
4204.7
4347.5
4526.9
3864.2
2297.3
402.7
117.1
51.4
16.9
0.0

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