

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: P947708

Luminaire Tested: **GALN-SB3A-727-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13081 lumens
Efficiency: N/A
Efficacy: 154.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

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

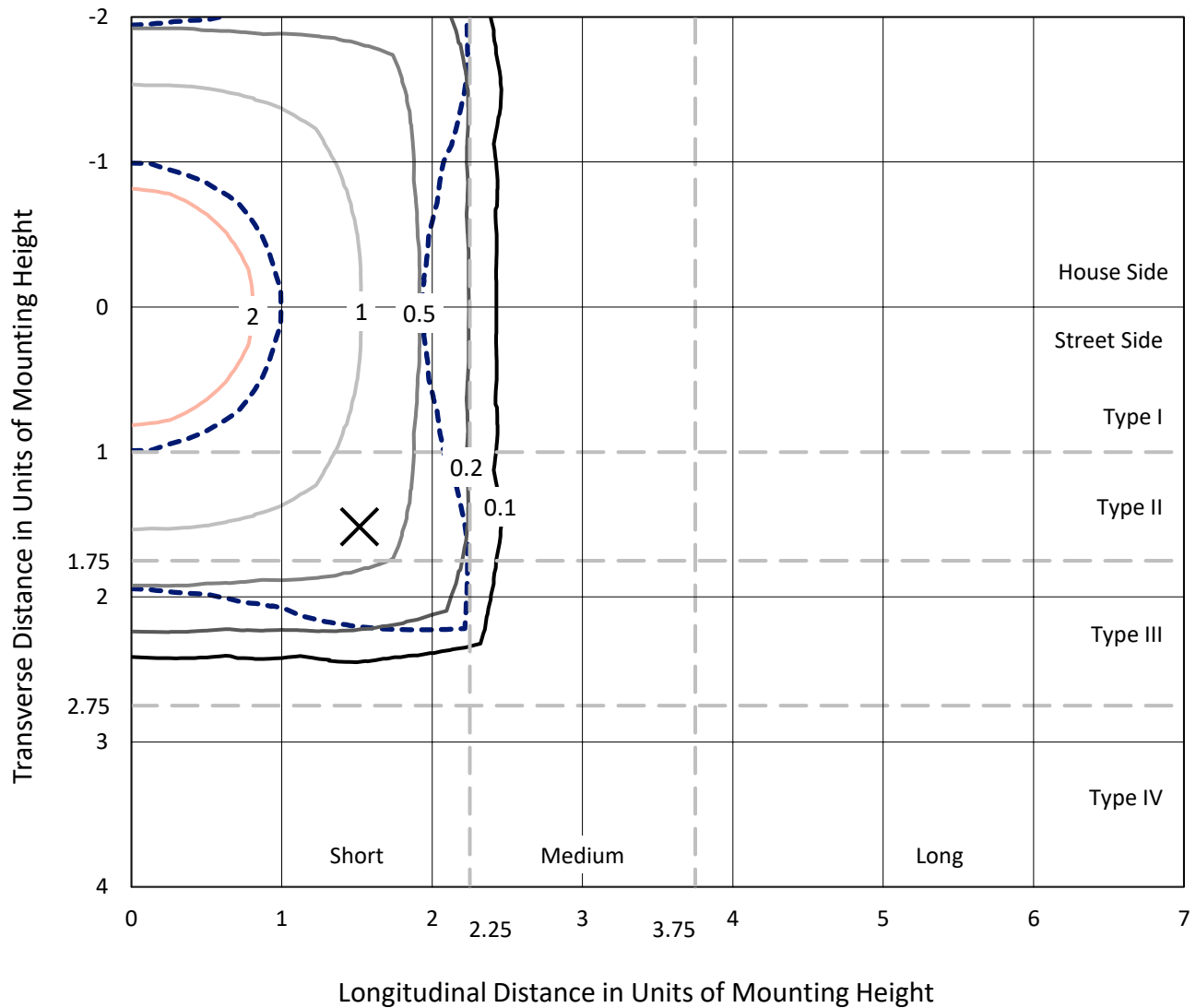


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

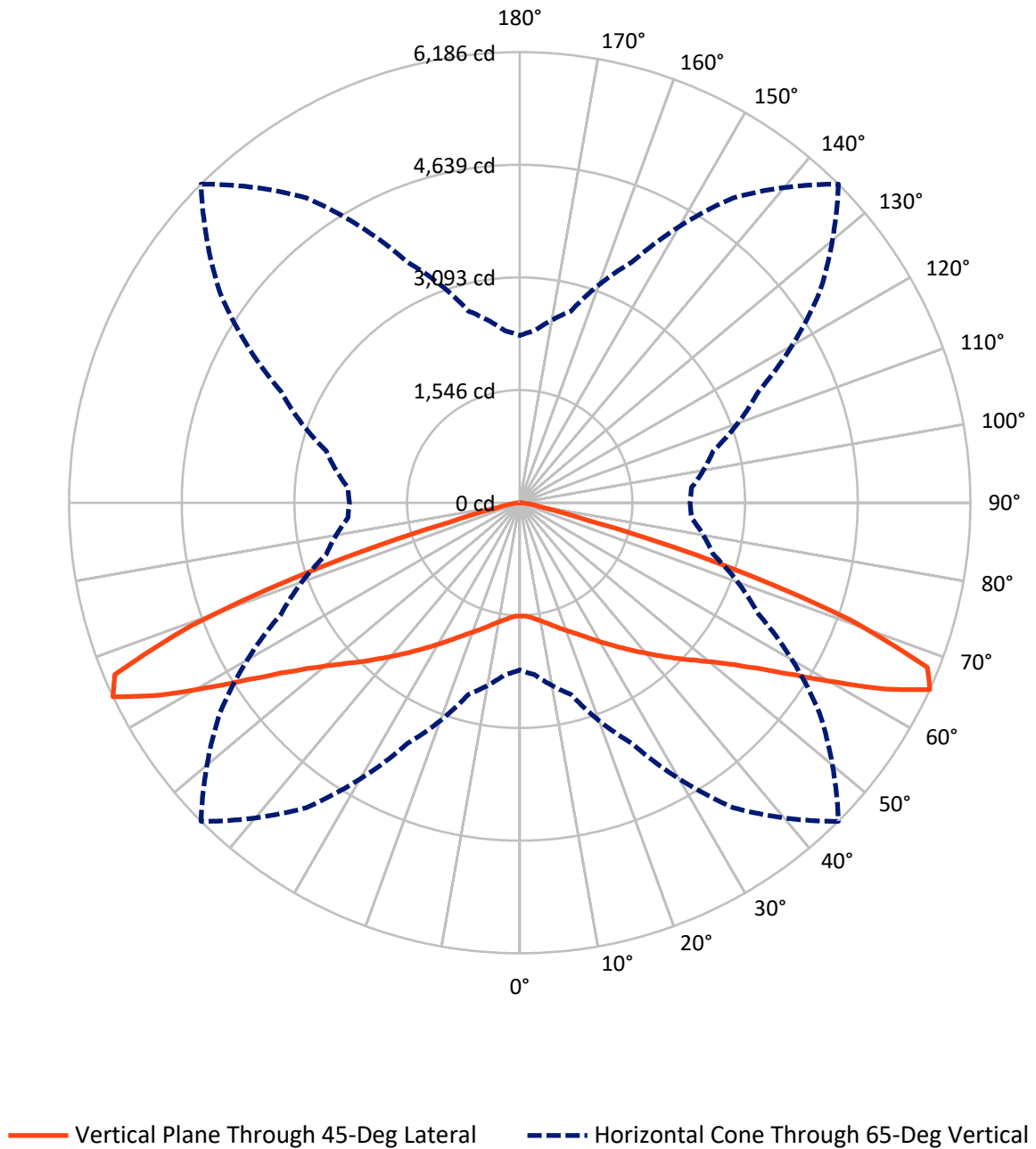


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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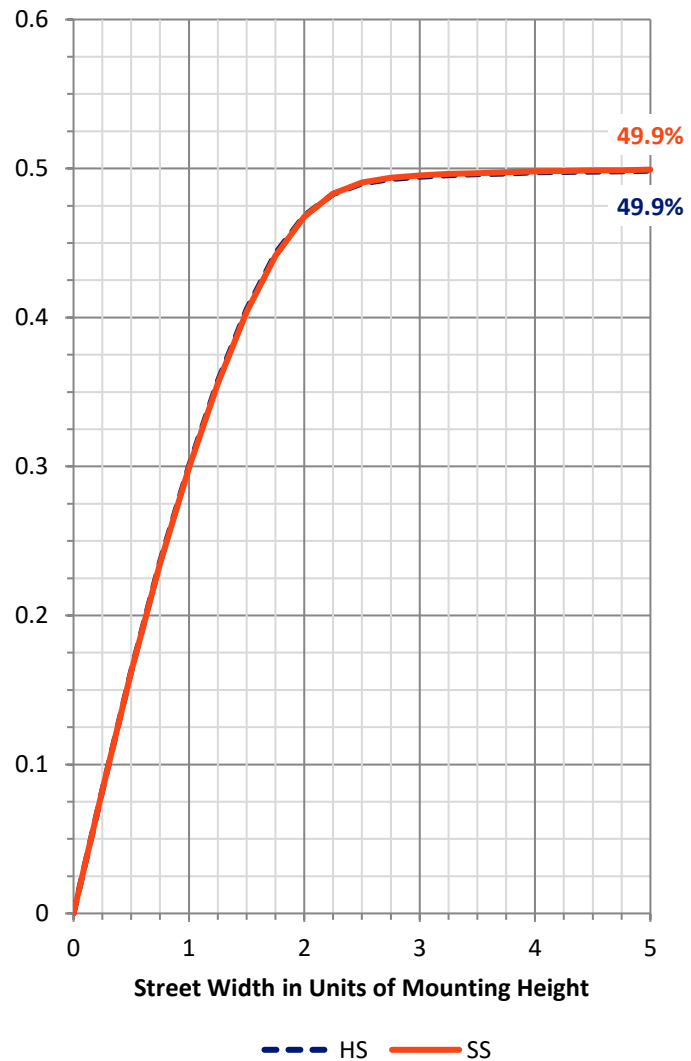
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6540.5	0.0	6540.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6540.5	0.0	6540.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13081.0	0.0	13081.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.2
10°-20°	501.3	3.8
20°-30°	946.6	7.2
30°-40°	1550.0	11.8
40°-50°	2403.3	18.4
50°-60°	3550.1	27.1
60°-70°	3379.4	25.8
70°-80°	545.3	4.2
80°-90°	51.4	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°	13081.0	100.0
0°-180°	13081.0	100.0

Coefficient of Utilization



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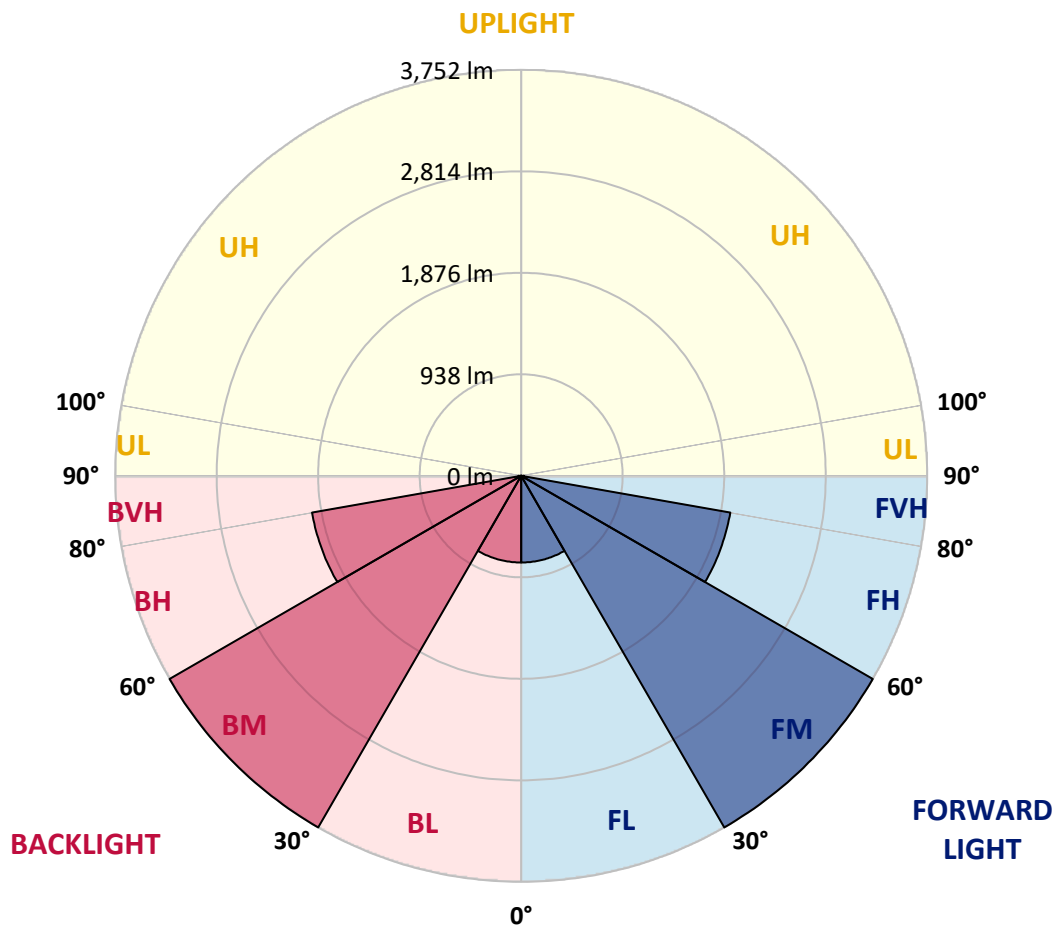
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	800.8	6.1			
FM	(30°-60°)	3751.7	28.7			
FH	(60°-80°)	1962.3	15.0			G2/5000
FVH	(80°-90°)	25.7	0.2			G1/100
BL	(0°-30°)	800.8	6.1	B2/1000		
BM	(30°-60°)	3751.7	28.7	B3/5000		
BH	(60°-80°)	1962.3	15.0	B3/2500		G2/5000
BVH	(80°-90°)	25.7	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-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8	1556.8
2.5°	1567.3	1562.0	1566.0	1562.7	1560.1	1557.4	1558.7	1563.3	1565.3	1566.0	1566.0
5°	1588.3	1583.7	1585.6	1585.6	1581.1	1579.7	1580.4	1583.7	1587.6	1587.6	1587.6
7.5°	1622.4	1617.8	1622.4	1619.8	1615.8	1614.5	1613.9	1616.5	1622.4	1622.4	1620.4
10°	1663.7	1658.5	1661.1	1659.8	1655.2	1653.2	1652.6	1656.5	1661.8	1661.1	1659.8
12.5°	1709.0	1703.1	1706.4	1702.5	1701.2	1699.2	1699.2	1698.5	1701.8	1699.2	1700.5
15°	1759.6	1755.6	1756.9	1754.3	1756.3	1755.0	1749.7	1747.1	1748.4	1744.5	1745.1
17.5°	1819.3	1810.1	1814.7	1813.4	1813.4	1816.0	1807.5	1804.2	1806.8	1802.9	1806.2
20°	1888.2	1879.0	1881.0	1878.4	1875.1	1877.7	1867.2	1869.8	1871.8	1869.2	1875.1
22.5°	1963.7	1951.9	1951.2	1952.5	1945.3	1946.0	1938.7	1945.3	1949.2	1942.0	1949.2
25°	2041.1	2028.7	2037.2	2033.9	2024.7	2026.7	2021.4	2028.0	2031.3	2022.1	2032.6
27.5°	2123.2	2114.6	2122.5	2124.5	2113.3	2121.2	2113.3	2119.2	2122.5	2108.7	2119.2
30°	2219.0	2210.5	2217.7	2222.9	2209.8	2222.3	2215.7	2219.6	2220.3	2203.9	2213.7
32.5°	2323.3	2310.2	2328.6	2331.2	2316.8	2331.9	2323.3	2328.6	2331.9	2309.6	2324.7
35°	2450.7	2434.3	2455.3	2452.0	2439.5	2452.0	2444.1	2452.0	2459.9	2432.9	2449.4
37.5°	2587.8	2570.8	2593.1	2587.2	2575.4	2583.9	2579.3	2584.6	2597.0	2568.1	2585.9
40°	2738.8	2717.8	2748.0	2737.5	2726.3	2725.0	2727.6	2730.9	2747.3	2715.2	2725.7
42.5°	2900.2	2877.9	2923.2	2906.8	2891.1	2880.5	2889.1	2895.6	2911.4	2875.3	2894.3
45°	3084.7	3059.1	3118.1	3098.4	3073.5	3051.8	3065.6	3075.5	3098.4	3055.1	3077.4
47.5°	3288.1	3259.2	3322.2	3316.3	3275.6	3228.4	3259.9	3288.1	3305.2	3252.7	3270.4
50°	3487.0	3464.7	3547.4	3554.6	3504.7	3438.4	3482.4	3525.0	3529.6	3460.7	3469.3
52.5°	3673.4	3651.1	3771.2	3816.4	3771.8	3693.1	3739.7	3783.0	3748.2	3658.9	3661.6
55°	3822.4	3804.0	3956.9	4073.7	4088.8	4023.8	4051.4	4050.1	3935.9	3798.7	3803.3
57.5°	3858.5	3855.8	4048.8	4296.2	4453.7	4461.6	4407.1	4268.0	4021.9	3837.5	3825.6
60°	3694.4	3710.8	3975.9	4412.4	4832.4	5007.0	4771.4	4374.3	3924.1	3668.1	3637.9
62.5°	3203.5	3246.8	3566.4	4270.6	5138.3	5634.4	5063.4	4212.9	3522.4	3188.4	3168.7
65°	2295.8	2371.3	2724.3	3644.5	5110.7	6185.7	5021.4	3615.0	2750.6	2365.3	2337.1
67.5°	1041.6	1118.4	1418.3	2495.3	4442.6	6036.1	4432.1	2521.5	1489.2	1122.3	1105.9
70°	377.4	390.5	487.0	998.9	2839.2	4809.4	2960.6	1006.1	517.8	416.1	410.9
72.5°	228.4	230.4	250.7	357.7	986.4	2919.9	1028.4	369.5	256.0	227.1	231.0
75°	145.0	143.7	178.5	218.6	349.8	985.1	366.9	218.6	177.9	162.1	163.4
77.5°	104.4	107.6	128.0	163.4	220.5	334.1	216.6	156.2	128.0	105.0	107.0
80°	78.1	80.1	93.2	127.3	154.9	208.1	137.8	115.5	96.5	65.6	67.6
82.5°	56.4	56.4	61.0	92.5	94.5	112.2	74.8	81.4	63.7	46.6	46.6
85°	33.5	32.8	38.1	55.1	49.2	41.3	34.1	49.9	40.0	28.9	28.2
87.5°	11.8	12.5	11.8	15.8	13.1	11.2	10.5	13.8	11.2	9.8	9.2
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)