

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: P949727

Luminaire Tested: **GALN-SB4B-927-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949727
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-SB4B-927-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14146 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

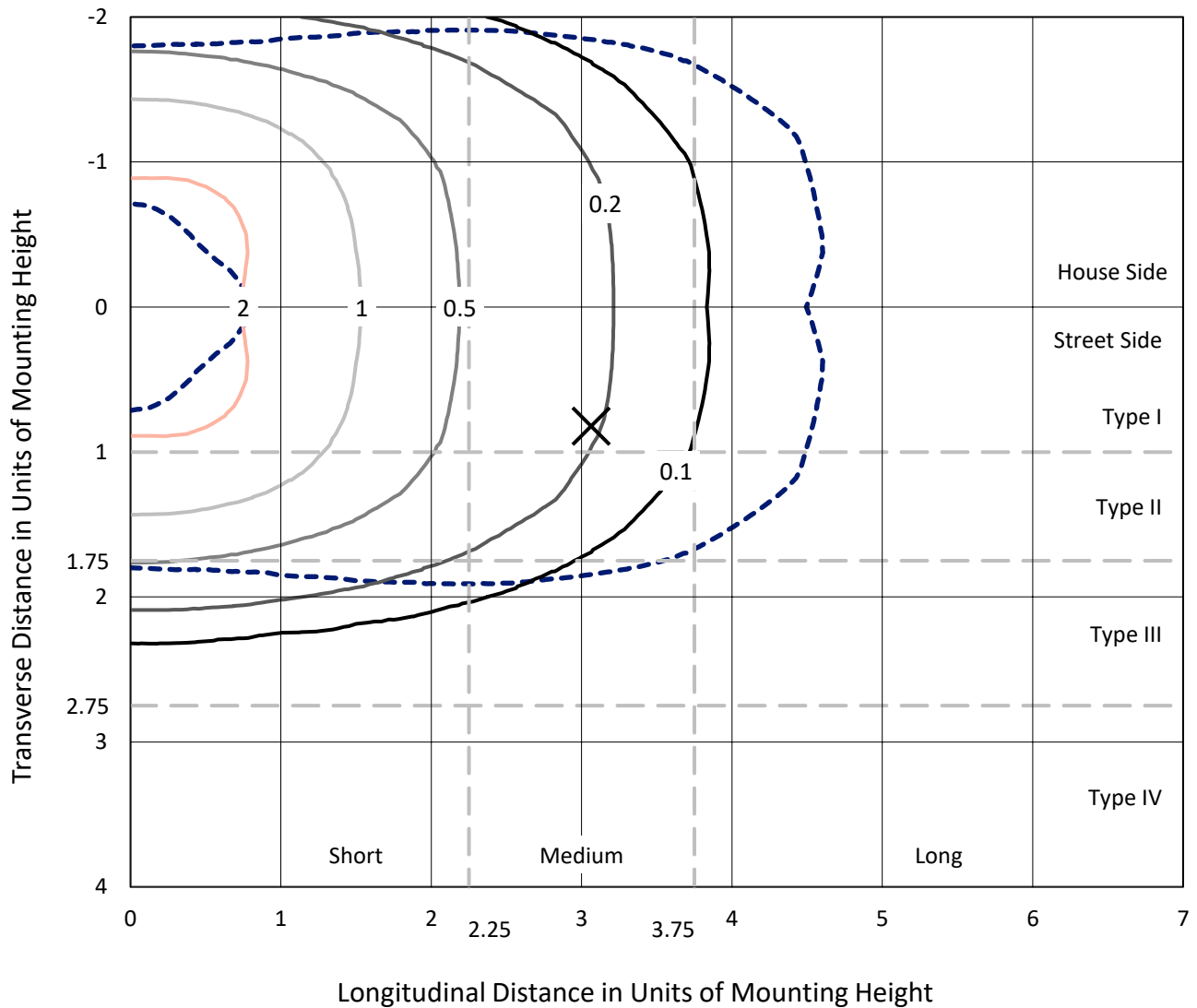
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

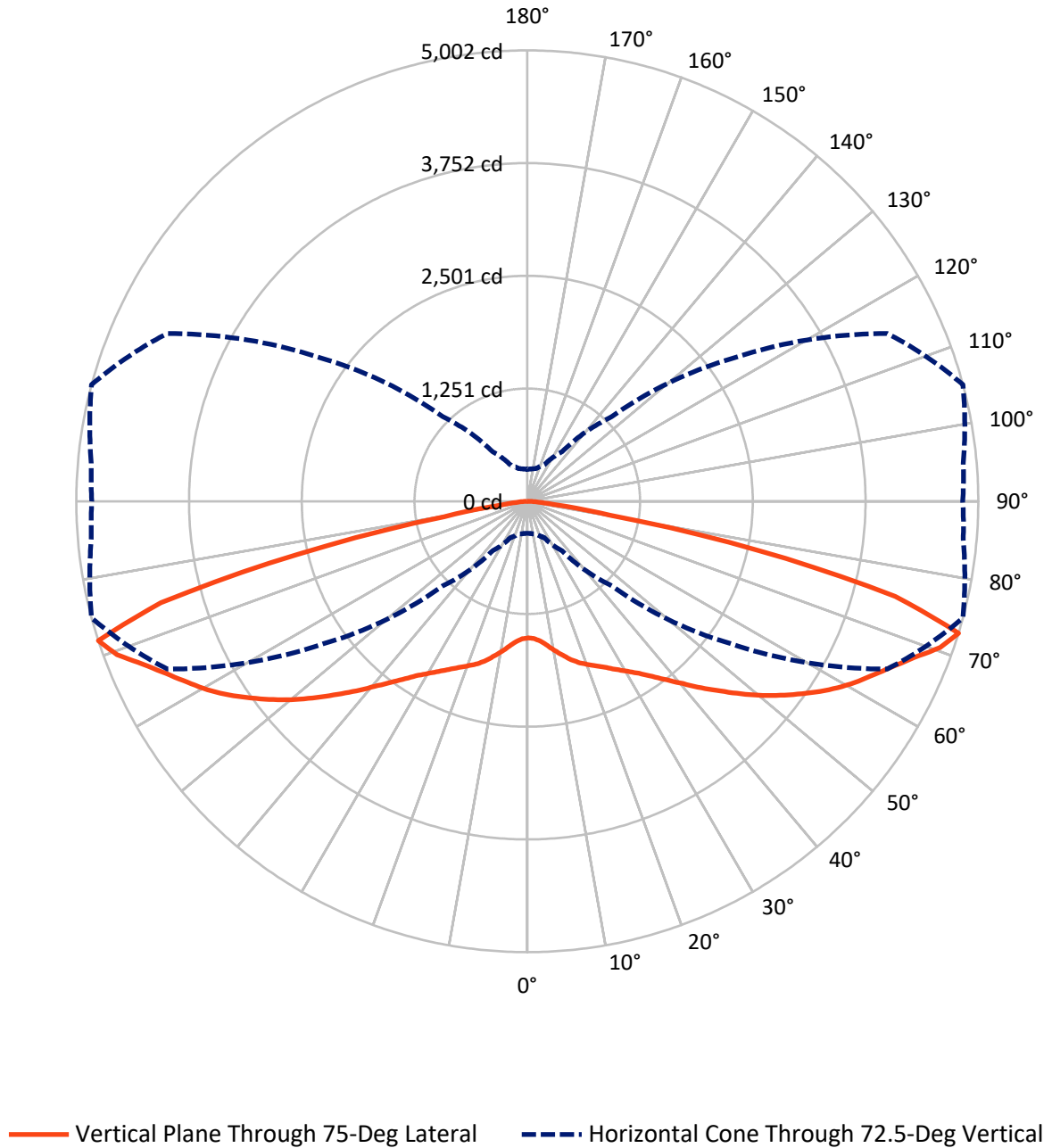
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7073.0	0.0	7073.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7073.0	0.0	7073.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14146.0	0.0	14146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.0
10°-20°	489.6	3.5
20°-30°	946.0	6.7
30°-40°	1597.4	11.3
40°-50°	2533.2	17.9
50°-60°	3391.7	24.0
60°-70°	3227.8	22.8
70°-80°	1684.3	11.9
80°-90°	127.5	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°	14146.0	100.0
0°-180°	14146.0	100.0

Coefficient of Utilization



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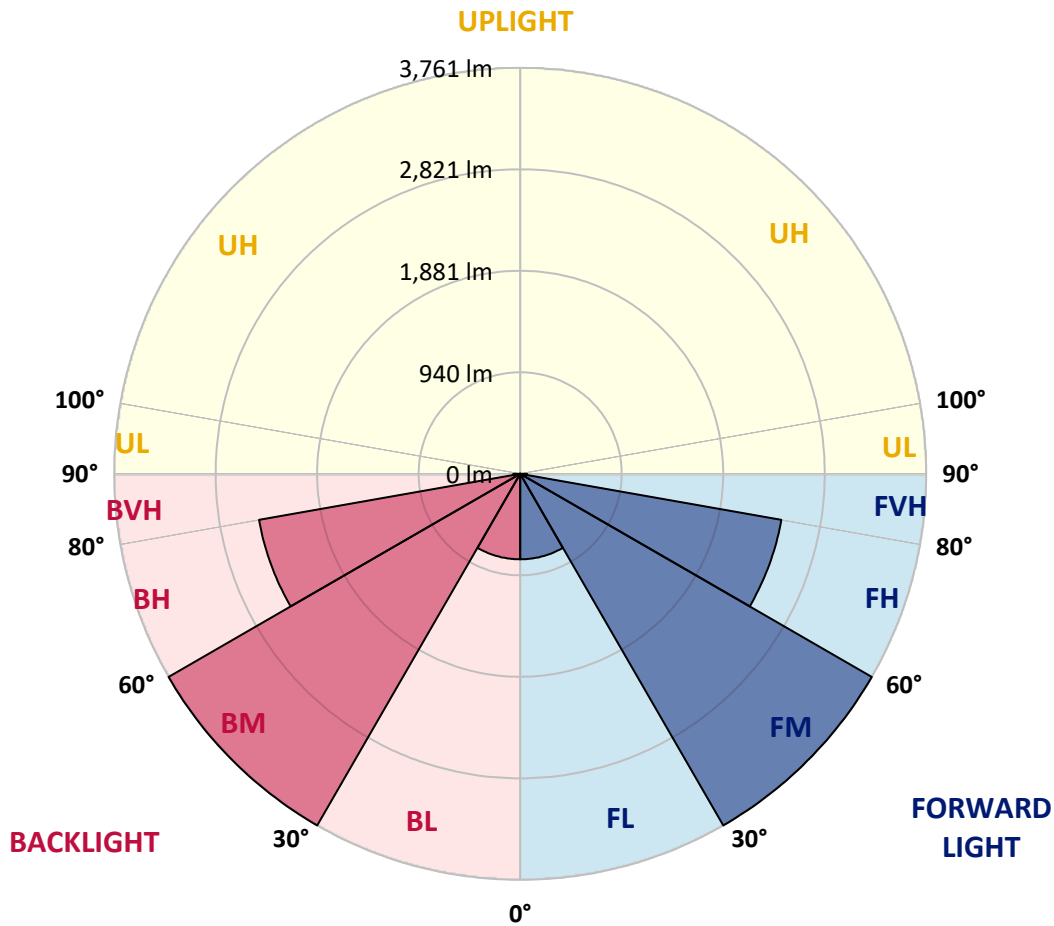
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	792.0	5.6			
FM (30°-60°)	3761.2	26.6			
FH (60°-80°)	2456.1	17.4			G2/5000
FVH (80°-90°)	63.7	0.5			G1/100
BL (0°-30°)	792.0	5.6	B2/1000		
BM (30°-60°)	3761.2	26.6	B3/5000		
BH (60°-80°)	2456.1	17.4	B3/2500		G3/2500
BVH (80°-90°)	63.7	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°	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3	1515.3
2.5°	1515.3	1513.8	1515.3	1516.7	1516.0	1516.0	1519.6	1521.8	1526.1	1525.4
5°	1505.2	1504.5	1510.2	1516.7	1521.8	1530.5	1541.3	1549.2	1559.3	1561.5
7.5°	1500.1	1498.0	1508.1	1519.6	1535.5	1557.2	1578.1	1599.8	1617.1	1622.9
10°	1503.7	1504.5	1518.2	1539.8	1565.1	1595.5	1625.1	1661.9	1686.5	1692.2
12.5°	1520.3	1518.9	1542.0	1576.7	1611.3	1649.6	1684.3	1724.7	1751.5	1765.2
15°	1550.7	1547.8	1580.3	1631.6	1682.1	1726.9	1755.1	1793.4	1824.4	1841.7
17.5°	1586.8	1588.2	1630.9	1697.3	1763.7	1814.3	1841.0	1860.5	1884.4	1899.5
20°	1650.4	1653.2	1700.9	1779.6	1855.5	1913.3	1934.9	1927.7	1934.2	1945.8
22.5°	1735.6	1737.0	1790.5	1875.7	1955.1	2018.7	2033.1	2003.5	1985.5	1993.4
25°	1834.5	1843.9	1897.4	1984.8	2066.4	2127.0	2133.5	2088.8	2044.0	2046.1
27.5°	1955.1	1963.8	2018.0	2104.6	2187.7	2240.4	2239.7	2179.8	2114.0	2097.4
30°	2085.9	2095.3	2150.9	2240.4	2317.7	2363.9	2353.8	2282.3	2188.4	2157.4
32.5°	2241.2	2246.9	2303.3	2392.8	2464.3	2501.2	2480.2	2392.1	2275.1	2239.7
35°	2428.9	2437.6	2479.5	2564.0	2626.8	2657.2	2621.8	2517.8	2386.3	2346.6
37.5°	2643.5	2637.7	2685.3	2760.5	2812.5	2831.2	2782.8	2659.3	2513.4	2466.5
40°	2867.4	2864.5	2916.5	2988.7	3016.9	3028.4	2956.9	2821.8	2660.1	2609.5
42.5°	3070.3	3068.1	3138.2	3218.4	3252.3	3239.3	3149.0	2994.5	2829.8	2772.0
45°	3232.8	3229.9	3315.9	3428.5	3495.0	3473.3	3352.0	3185.1	3001.7	2941.7
47.5°	3357.8	3359.2	3451.7	3591.0	3707.3	3715.3	3559.3	3379.4	3190.9	3123.0
50°	3448.0	3452.4	3551.3	3705.9	3864.8	3934.8	3770.9	3578.8	3386.7	3310.1
52.5°	3470.4	3478.4	3597.5	3778.8	3965.9	4099.5	3986.1	3770.2	3572.3	3499.3
55°	3351.3	3367.2	3518.1	3773.1	4028.0	4207.9	4175.4	3964.5	3759.3	3684.2
57.5°	3077.5	3099.9	3276.1	3609.1	4014.3	4282.2	4322.0	4150.8	3946.4	3874.2
60°	2694.0	2720.7	2889.7	3253.0	3820.7	4309.7	4425.3	4332.1	4118.3	4048.2
62.5°	2115.5	2150.2	2352.4	2778.5	3411.9	4181.9	4513.4	4496.0	4272.9	4185.5
65°	1357.1	1394.0	1607.0	2110.4	2866.6	3790.4	4540.8	4655.7	4436.1	4314.0
67.5°	818.3	834.9	940.4	1279.1	2095.3	3200.3	4308.2	4832.6	4626.8	4475.1
70°	523.6	533.0	595.9	751.1	1184.5	2335.0	3731.9	4865.8	4857.9	4640.5
72.5°	355.3	358.2	374.9	444.9	670.3	1326.8	2752.5	4405.0	5002.3	4853.5
75°	260.0	275.9	302.6	314.9	380.6	663.0	1577.4	3094.9	4215.8	4280.8
77.5°	193.6	194.3	231.1	245.6	271.6	353.2	667.4	1727.6	2617.5	2748.2
80°	164.0	155.3	154.6	197.9	204.4	220.3	298.3	596.6	937.5	568.4
82.5°	136.5	127.1	114.8	154.6	139.4	135.1	129.3	242.7	298.3	146.6
85°	95.3	91.0	86.7	101.1	79.4	67.9	62.1	113.4	125.7	62.1
87.5°	41.2	42.6	43.3	44.8	33.2	23.8	23.8	31.8	31.8	24.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1515.3
1524.7
1561.5
1624.4
1698.0
1771.0
1848.2
1906.8
1954.4
1999.2
2049.8
2102.5
2161.0
2248.4
2352.4
2475.2
2626.1
2786.5
2955.5
3143.3
3333.2
3518.1
3705.2
3890.8
4063.4
4195.6
4329.2
4486.6
4639.0
4830.4
4123.4
2451.3
429.7
125.0
54.9
18.1
0.0

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