

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: P939633

Luminaire Tested: **GALN-SB2B-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P939633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB2B-827-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

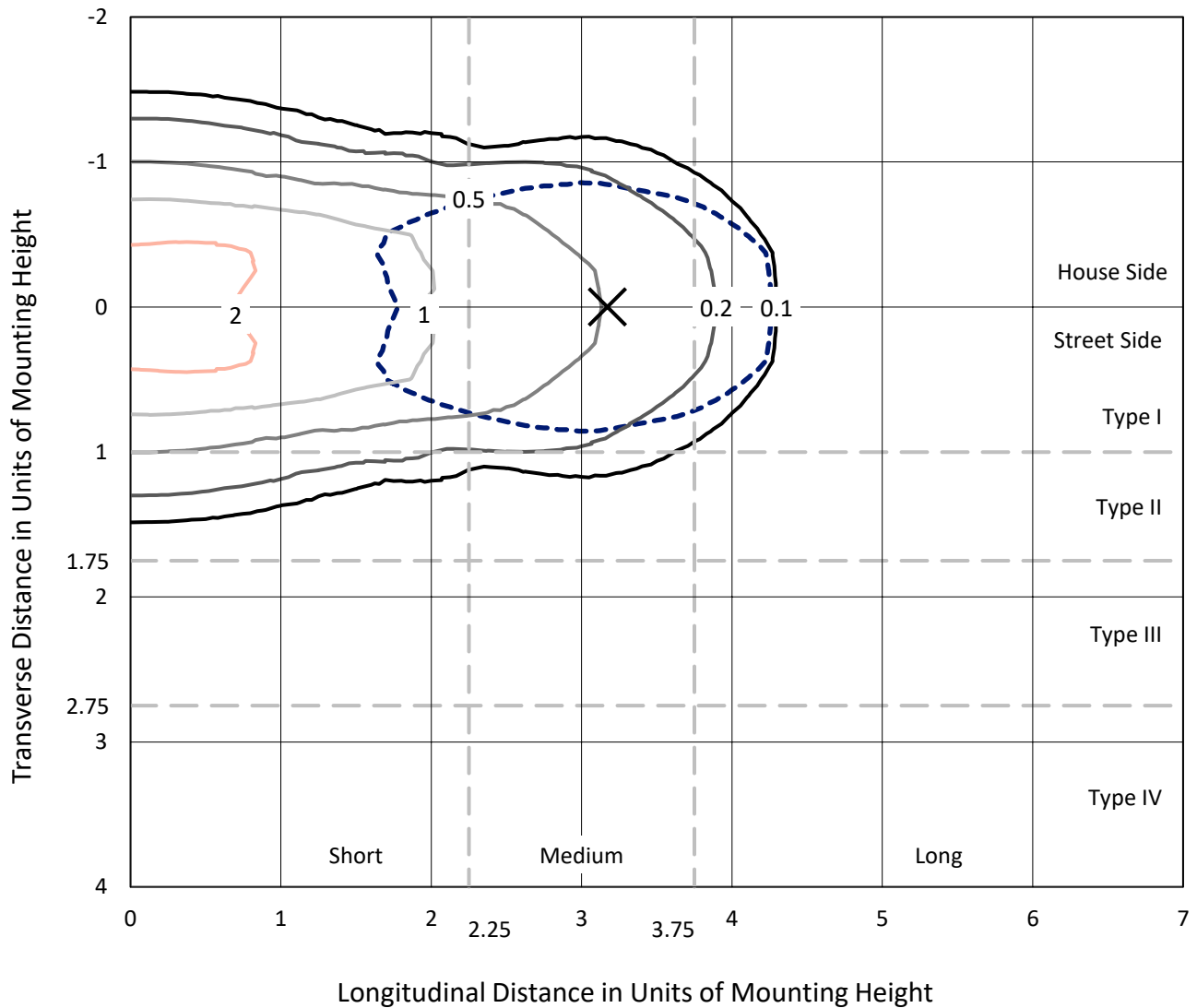
Lumens per Lamp: N/A  
Luminaire Lumens: 9687 lumens  
Efficiency: N/A  
Efficacy: 131.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

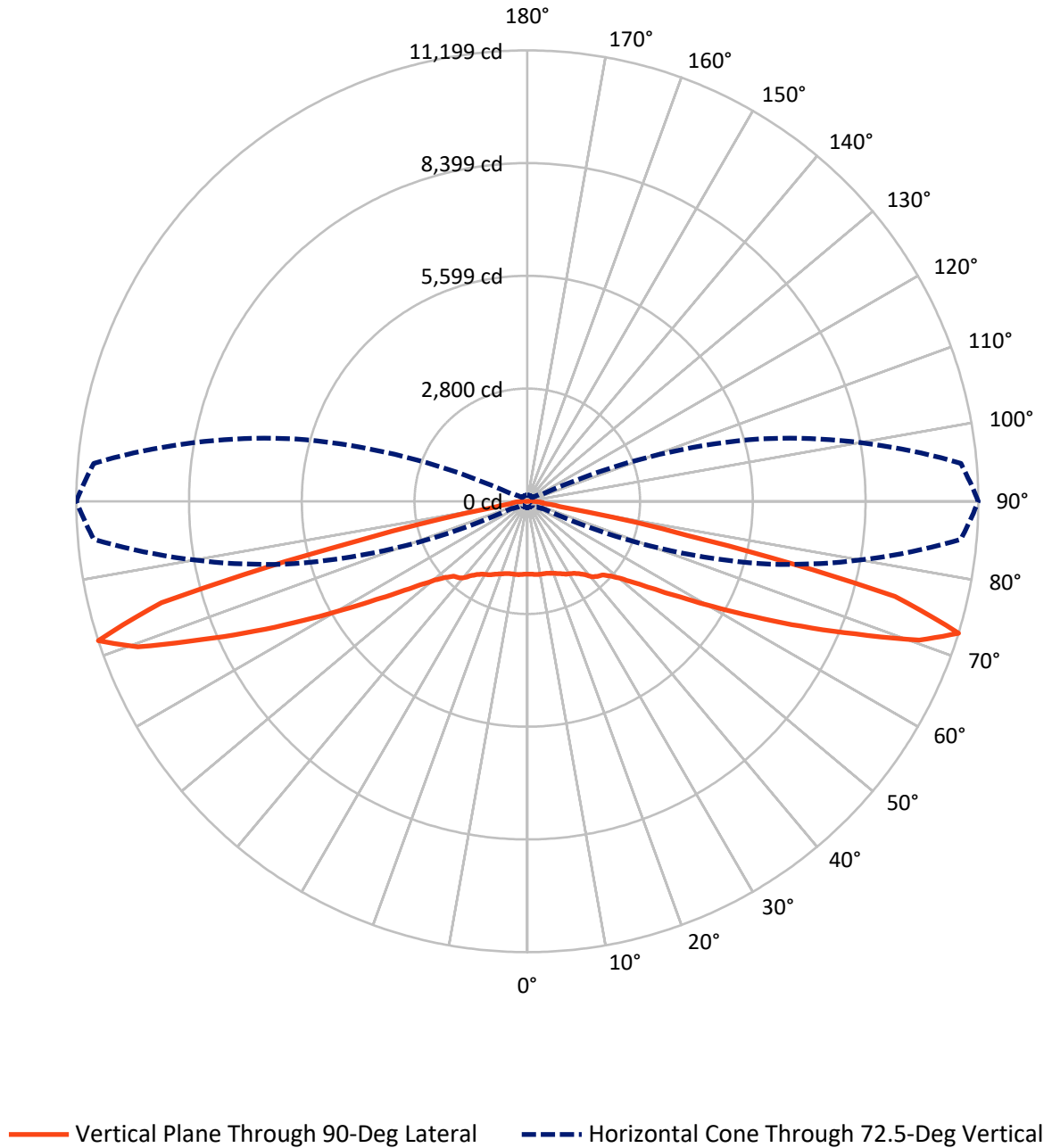
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4843.5	0.0	4843.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4843.5	0.0	4843.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9687.0	0.0	9687.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	1.8
10°-20°	536.6	5.5
20°-30°	894.8	9.2
30°-40°	1230.7	12.7
40°-50°	1503.0	15.5
50°-60°	1738.3	17.9
60°-70°	2072.7	21.4
70°-80°	1446.6	14.9
80°-90°	88.9	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°	9687.0	100.0
0°-180°	9687.0	100.0

**Coefficient of Utilization**



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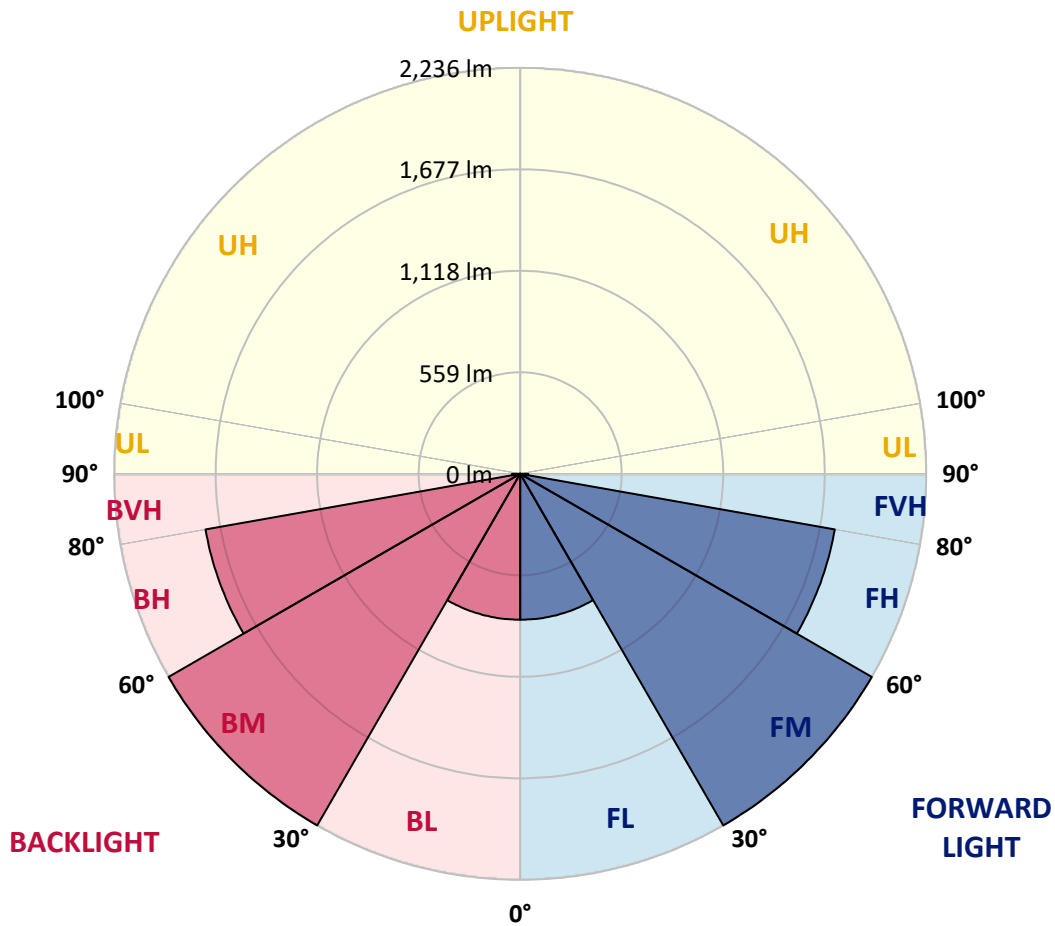
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	803.5	8.3			
FM (30°-60°)	2236.0	23.1			
FH (60°-80°)	1759.6	18.2			G1/1800
FVH (80°-90°)	44.4	0.5			G1/100
BL (0°-30°)	803.5	8.3	B2/1000		
BM (30°-60°)	2236.0	23.1	B2/2500		
BH (60°-80°)	1759.6	18.2	B3/2500		G3/2500
BVH (80°-90°)	44.4	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°
0°	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1
2.5°	1811.7	1813.7	1813.7	1812.2	1815.8	1812.7	1812.7	1811.1	1812.7	1811.1
5°	1820.9	1823.5	1824.5	1824.0	1828.7	1826.1	1826.1	1824.0	1824.5	1823.0
7.5°	1838.4	1842.0	1844.1	1846.7	1853.4	1850.3	1848.2	1842.0	1839.5	1835.3
10°	1844.1	1848.2	1854.9	1868.3	1883.7	1884.3	1878.1	1862.6	1850.8	1841.5
12.5°	1826.6	1832.3	1846.2	1873.4	1907.9	1921.8	1912.1	1886.3	1863.1	1846.7
15°	1804.5	1810.6	1831.7	1872.9	1923.9	1956.3	1955.3	1921.3	1884.3	1858.5
17.5°	1770.0	1776.1	1806.5	1864.2	1936.2	1989.8	2004.2	1969.2	1917.2	1882.7
20°	1707.7	1713.3	1755.5	1836.4	1940.4	2025.3	2062.9	2032.0	1967.1	1920.3
22.5°	1626.8	1635.6	1685.0	1788.5	1930.6	2062.4	2129.8	2108.7	2025.3	1960.4
25°	1540.4	1549.6	1607.3	1729.8	1905.4	2089.2	2209.1	2195.7	2091.2	2010.4
27.5°	1465.7	1475.5	1538.3	1671.6	1866.2	2099.4	2287.4	2294.1	2171.0	2065.5
30°	1407.0	1416.3	1483.2	1624.8	1815.8	2089.2	2355.8	2402.2	2252.4	2113.3
32.5°	1342.7	1354.5	1425.0	1567.6	1756.1	2064.4	2415.6	2519.0	2346.6	2164.8
35°	1261.3	1272.1	1346.3	1489.4	1677.8	2024.8	2465.5	2648.8	2481.4	2243.1
37.5°	1162.5	1172.8	1246.4	1391.6	1600.1	1969.2	2503.6	2795.0	2642.1	2355.8
40°	1063.1	1072.9	1141.9	1282.4	1506.9	1898.2	2517.0	2938.1	2826.4	2510.8
42.5°	972.0	980.7	1044.1	1174.8	1402.4	1807.5	2499.5	3062.7	2991.6	2618.9
45°	888.1	895.8	951.9	1073.9	1293.8	1697.4	2447.0	3196.5	3188.3	2696.1
47.5°	792.3	800.0	858.2	976.1	1185.1	1568.2	2357.9	3328.3	3461.7	2871.2
50°	675.4	682.1	741.9	863.4	1072.4	1430.7	2234.3	3431.8	3806.6	3136.3
52.5°	537.0	544.2	602.3	723.8	938.5	1282.9	2071.6	3499.3	4205.1	3523.4
55°	399.5	404.7	455.1	564.2	772.7	1114.6	1867.8	3518.3	4657.1	4052.7
57.5°	289.8	292.9	325.4	406.7	585.9	904.0	1620.1	3468.9	5195.1	4731.2
60°	234.8	235.8	245.6	281.6	407.2	666.2	1321.0	3299.0	5778.9	5605.9
62.5°	213.1	213.1	215.7	225.5	275.4	439.7	959.1	2946.8	6404.9	6711.2
65°	198.2	198.2	199.2	203.9	217.3	280.1	605.4	2373.3	6932.6	8006.0
67.5°	184.8	185.3	184.8	186.4	194.1	207.0	351.1	1639.2	7216.8	9347.6
70°	170.9	172.0	169.4	169.4	175.6	176.1	219.8	898.9	6981.0	10472.0
72.5°	154.4	156.0	151.9	150.8	155.5	153.4	165.3	431.4	5993.6	10807.7
75°	140.0	142.1	132.8	130.3	130.3	128.7	134.4	221.4	3890.0	8816.3
77.5°	127.2	131.3	116.4	108.1	106.1	101.4	109.7	135.4	1701.5	4139.2
80°	105.0	110.7	95.8	86.0	82.4	77.2	86.5	94.7	506.1	961.2
82.5°	78.3	80.8	68.0	61.3	58.2	54.6	64.9	65.9	164.7	340.3
85°	49.9	51.0	41.7	36.0	34.5	32.9	41.2	36.0	62.8	250.2
87.5°	17.5	20.1	16.0	14.4	15.4	12.9	19.0	10.8	17.5	176.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

1810.1  
1811.1  
1823.0  
1835.3  
1840.0  
1844.1  
1854.4  
1877.0  
1911.5  
1948.6  
1993.9  
2048.0  
2088.1  
2132.9  
2207.6  
2308.5  
2460.3  
2554.0  
2608.6  
2770.3  
3009.7  
3367.5  
3857.6  
4485.7  
5296.5  
6296.8  
7481.9  
8781.9  
10323.2  
11198.9  
9430.0  
4053.2  
920.5  
384.6  
363.5  
218.8  
0.0

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