

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: P940930

Luminaire Tested: **GALN-SB4B-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940930
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21173 lumens
Efficiency: N/A
Efficacy: 144.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - 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



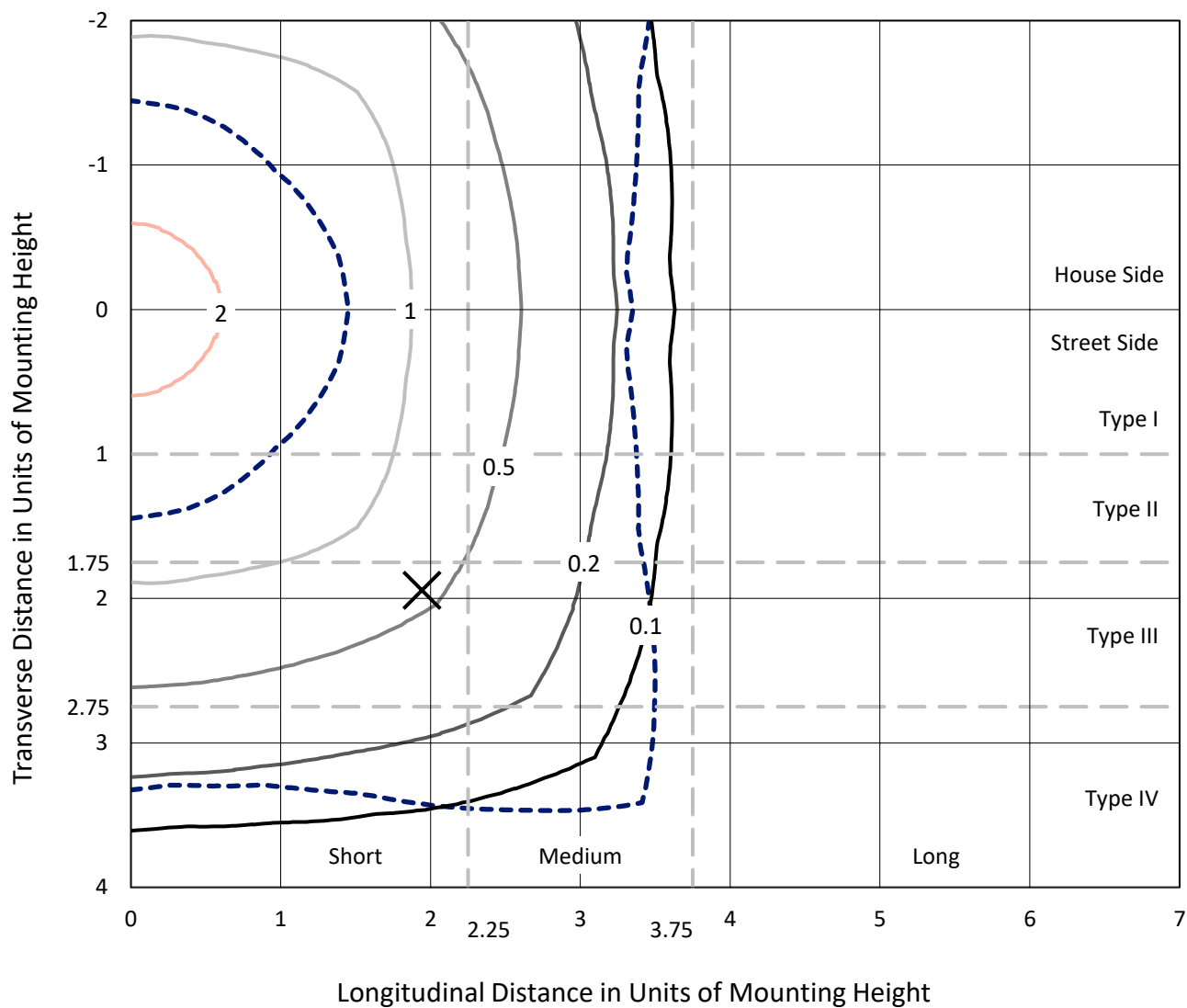
REPORT NUMBER: P940930

CATALOG NUMBER: GALN-SB4B-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

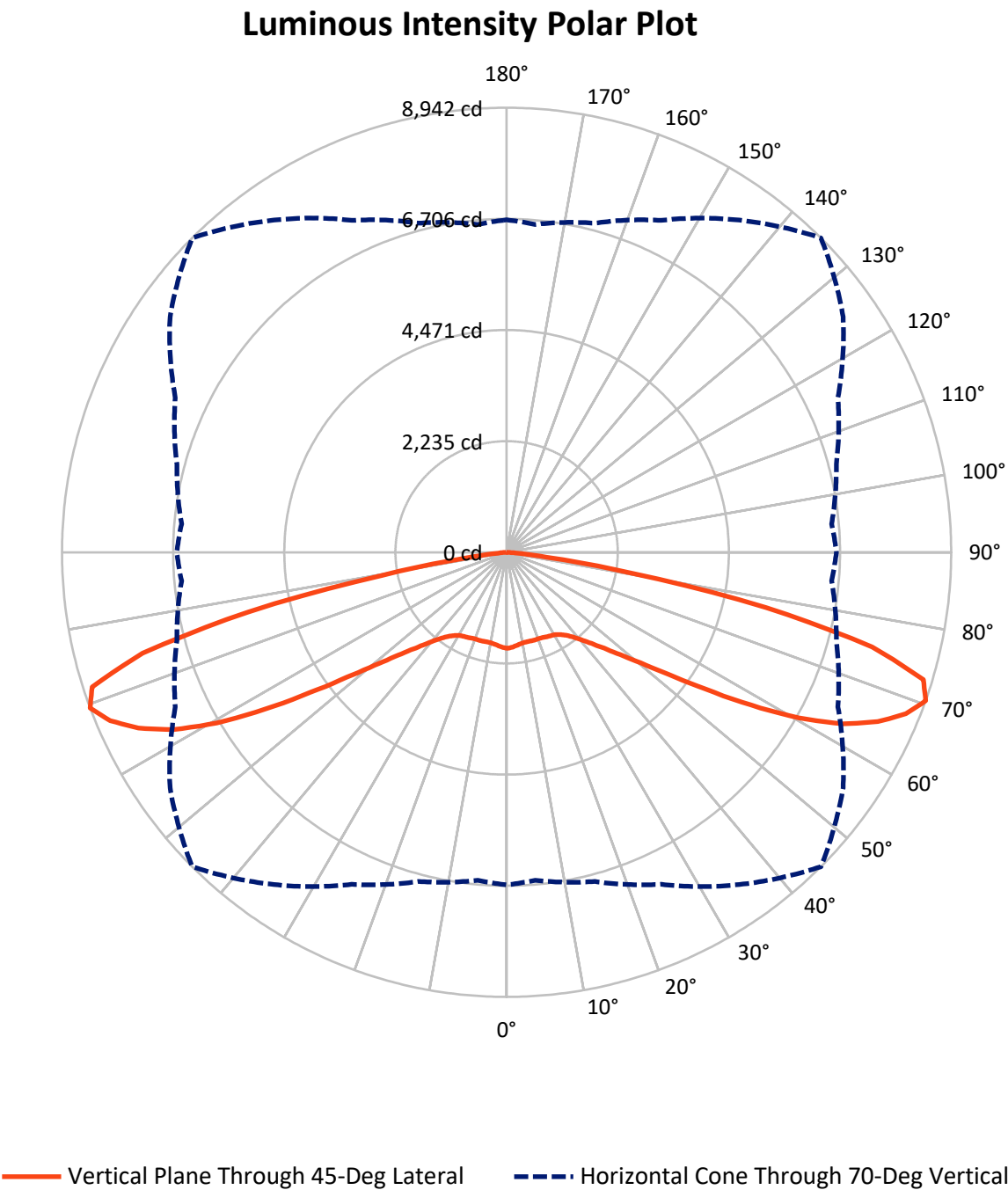
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc

Type V - Short - N/A

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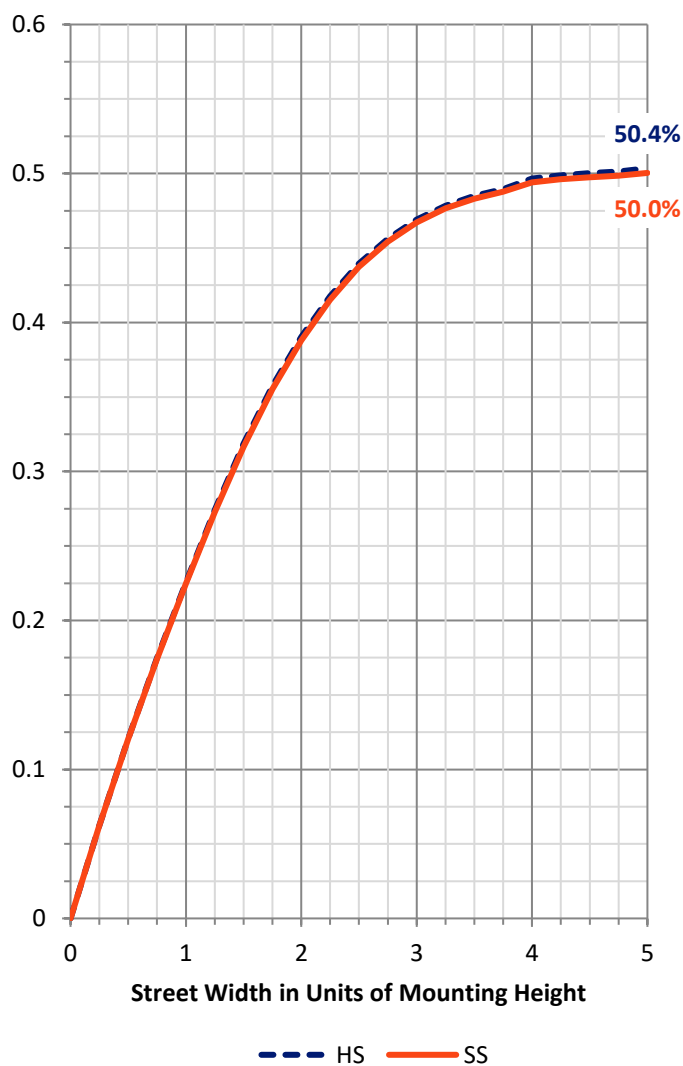
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10586.5	0.0	10586.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10586.5	0.0	10586.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21173.0	0.0	21173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.7	0.8
10°-20°	527.6	2.5
20°-30°	877.9	4.1
30°-40°	1327.7	6.3
40°-50°	2206.3	10.4
50°-60°	4163.1	19.7
60°-70°	7029.6	33.2
70°-80°	4619.2	21.8
80°-90°	242.0	1.1
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°	21173.0	100.0
0°-180°	21173.0	100.0

Coefficient of Utilization



REPORT NUMBER: P940930

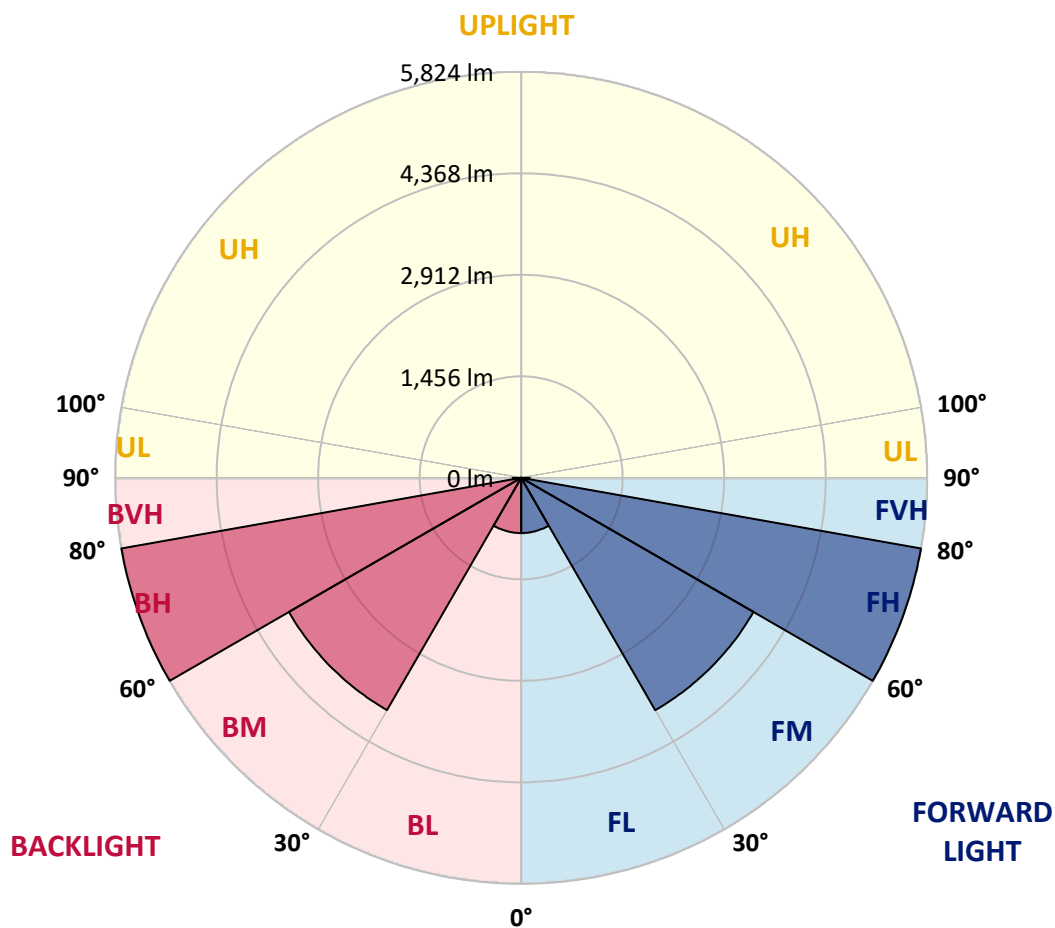
CATALOG NUMBER: GALN-SB4B-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	792.6	3.7			
FM	(30°-60°)	3848.5	18.2			
FH	(60°-80°)	5824.4	27.5			G3/7500
FVH	(80°-90°)	121.0	0.6			G2/225
BL	(0°-30°)	792.6	3.7	B2/1000		
BM	(30°-60°)	3848.5	18.2	B3/5000		
BH	(60°-80°)	5824.4	27.5	B5		G3/7500
BVH	(80°-90°)	121.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1931.4	1931.4	1931.4	1931.4	1931.4	1931.4	1931.4	1931.4	1931.4	1931.4	1931.4
2.5°	1919.3	1924.8	1922.6	1918.2	1918.2	1914.9	1918.2	1920.4	1923.7	1925.9	1924.8
5°	1894.0	1898.4	1897.3	1894.0	1895.1	1891.8	1894.0	1897.3	1899.5	1900.6	1900.6
7.5°	1872.0	1876.4	1874.2	1868.7	1868.7	1865.4	1866.5	1869.8	1873.1	1874.2	1874.2
10°	1866.5	1870.9	1864.3	1855.5	1852.2	1847.8	1848.9	1852.2	1858.8	1862.1	1862.1
12.5°	1868.7	1872.0	1865.4	1852.2	1848.9	1844.5	1844.5	1847.8	1856.6	1861.0	1862.1
15°	1875.3	1878.6	1868.7	1854.4	1851.1	1847.8	1846.7	1851.1	1861.0	1868.7	1869.8
17.5°	1887.4	1890.7	1875.3	1855.5	1851.1	1852.2	1851.1	1854.4	1869.8	1884.1	1884.1
20°	1898.4	1900.6	1879.7	1855.5	1851.1	1852.2	1851.1	1857.7	1877.5	1897.3	1898.4
22.5°	1901.7	1903.9	1884.1	1863.2	1859.9	1861.0	1859.9	1866.5	1885.2	1905.0	1905.0
25°	1902.8	1906.1	1890.7	1874.2	1879.7	1881.9	1879.7	1880.8	1895.1	1912.7	1911.6
27.5°	1919.3	1923.7	1909.4	1895.1	1898.4	1897.3	1900.6	1903.9	1914.9	1932.5	1928.1
30°	1953.4	1956.7	1944.6	1930.3	1928.1	1920.4	1930.3	1941.3	1953.4	1968.8	1965.5
32.5°	2009.5	2016.1	2000.7	1985.3	1975.4	1971.0	1978.7	1997.4	2013.9	2030.5	2023.8
35°	2103.1	2107.5	2093.2	2064.6	2047.0	2047.0	2053.6	2077.8	2104.2	2125.1	2117.4
37.5°	2235.1	2240.6	2215.3	2181.2	2154.8	2154.8	2163.6	2188.9	2228.5	2258.3	2247.3
40°	2395.8	2403.5	2371.6	2336.4	2311.1	2306.7	2317.7	2346.3	2383.7	2421.1	2409.0
42.5°	2589.5	2598.3	2556.5	2525.7	2505.9	2505.9	2511.4	2537.8	2571.9	2618.1	2614.8
45°	2837.1	2852.5	2795.3	2764.5	2745.8	2750.2	2753.5	2776.6	2807.4	2860.2	2858.0
47.5°	3132.1	3147.5	3086.9	3055.0	3051.7	3072.6	3059.4	3075.9	3092.4	3153.0	3135.4
50°	3466.6	3493.0	3451.2	3449.0	3455.6	3494.1	3463.3	3472.1	3453.4	3491.9	3468.8
52.5°	3876.0	3914.5	3906.8	3920.0	3993.8	4073.0	4002.6	3971.8	3901.3	3913.4	3872.7
55°	4372.3	4430.7	4441.7	4520.9	4688.2	4850.0	4700.3	4575.9	4426.3	4398.8	4355.8
57.5°	4936.9	4983.1	5036.0	5197.7	5510.3	5797.5	5510.3	5235.2	4999.6	4943.5	4903.9
60°	5544.4	5601.6	5652.2	5891.1	6355.5	6759.4	6346.7	5909.8	5598.3	5522.4	5456.4
62.5°	6197.0	6270.7	6306.0	6571.2	7112.6	7594.7	7120.3	6591.0	6245.4	6164.0	6098.0
65°	6823.2	6883.7	6923.3	7206.2	7723.4	8206.5	7758.6	7237.0	6881.5	6774.8	6721.9
67.5°	7114.8	7147.8	7244.7	7564.9	8110.8	8662.2	8203.2	7599.1	7201.8	7014.7	7016.9
70°	6687.8	6620.7	6854.0	7366.8	8157.0	8941.7	8262.7	7351.4	6865.0	6561.3	6633.9
72.5°	5168.0	5052.5	5457.5	6334.6	7628.8	8763.4	7681.6	6384.1	5709.5	5093.2	5246.2
75°	2811.8	2680.9	3239.9	4349.2	6083.6	7595.8	6223.4	4473.6	3607.5	2790.9	2972.5
77.5°	793.5	743.9	1195.2	2104.2	3659.2	5333.1	3800.1	2150.4	1417.5	840.8	934.3
80°	243.2	235.5	319.1	633.9	1553.9	2554.3	1493.4	641.6	406.1	256.4	270.7
82.5°	144.2	132.1	158.5	231.1	396.2	802.3	385.2	241.0	193.7	129.9	140.9
85°	82.5	77.0	93.5	112.3	133.2	170.6	111.2	114.5	103.4	69.3	72.6
87.5°	34.1	30.8	36.3	35.2	30.8	39.6	29.7	35.2	41.8	27.5	25.3
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)