

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: P941440

Luminaire Tested: **GALN-SB5A-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941440
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-SB5A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21259 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 141.7
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

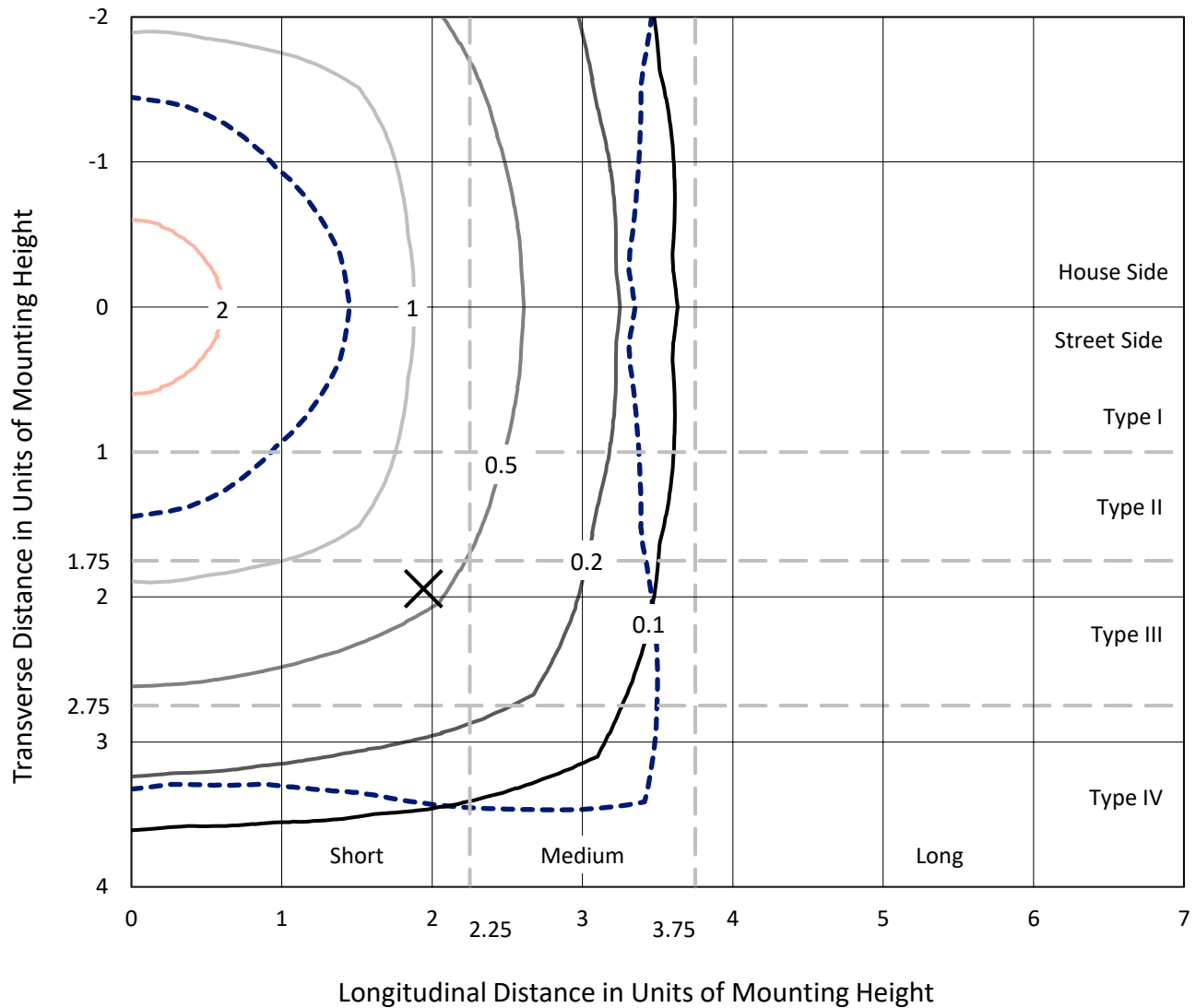


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd

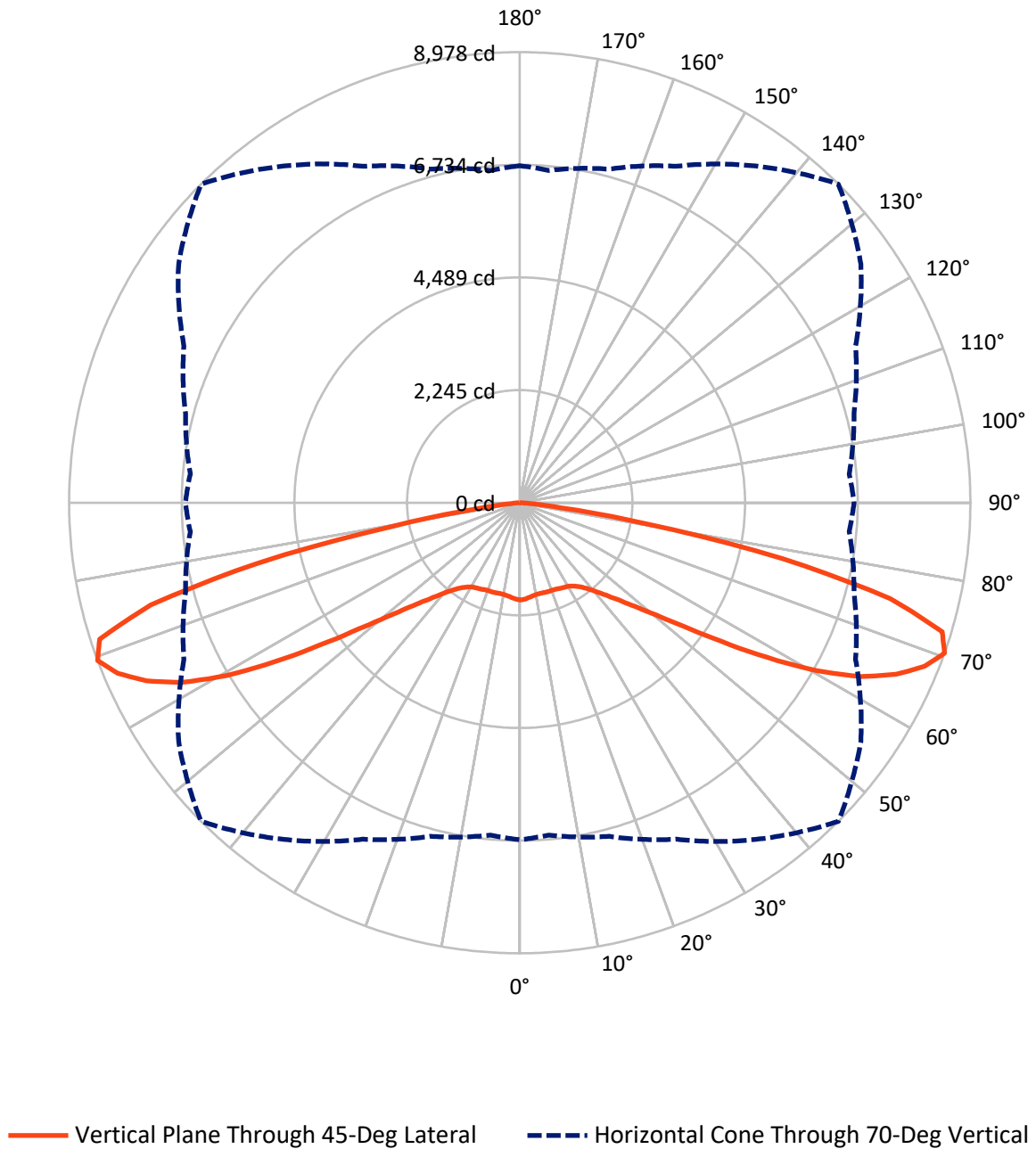


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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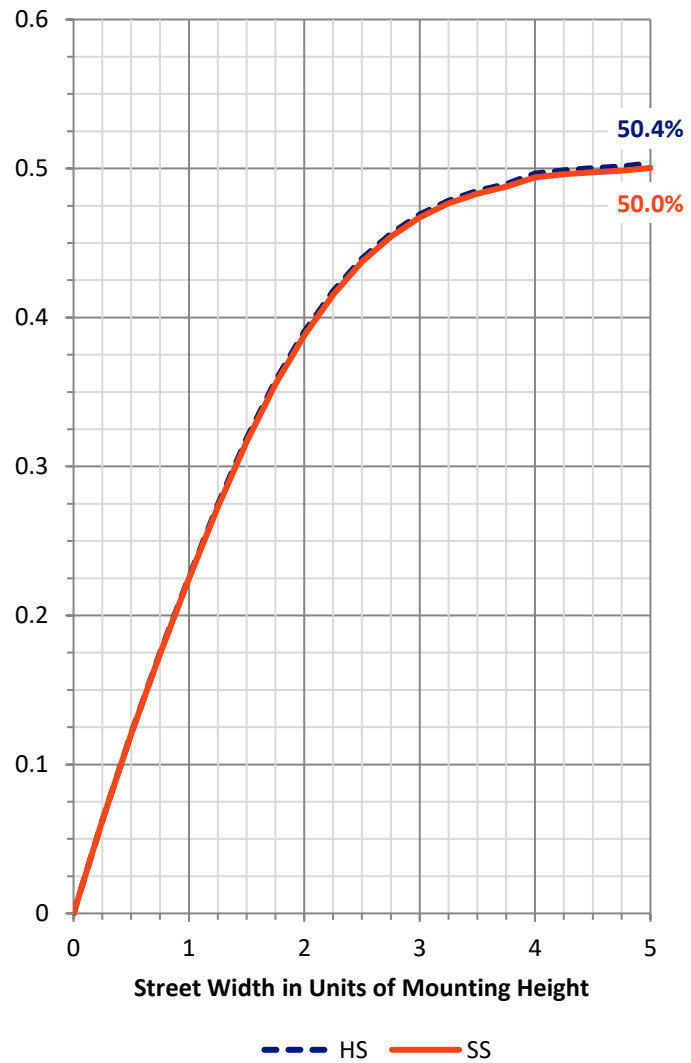
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10629.5	0.0	10629.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10629.5	0.0	10629.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21259.0	0.0	21259.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	0.8
10°-20°	529.7	2.5
20°-30°	881.5	4.1
30°-40°	1333.1	6.3
40°-50°	2215.2	10.4
50°-60°	4180.0	19.7
60°-70°	7058.2	33.2
70°-80°	4638.0	21.8
80°-90°	243.0	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°	21259.0	100.0
0°-180°	21259.0	100.0

Coefficient of Utilization



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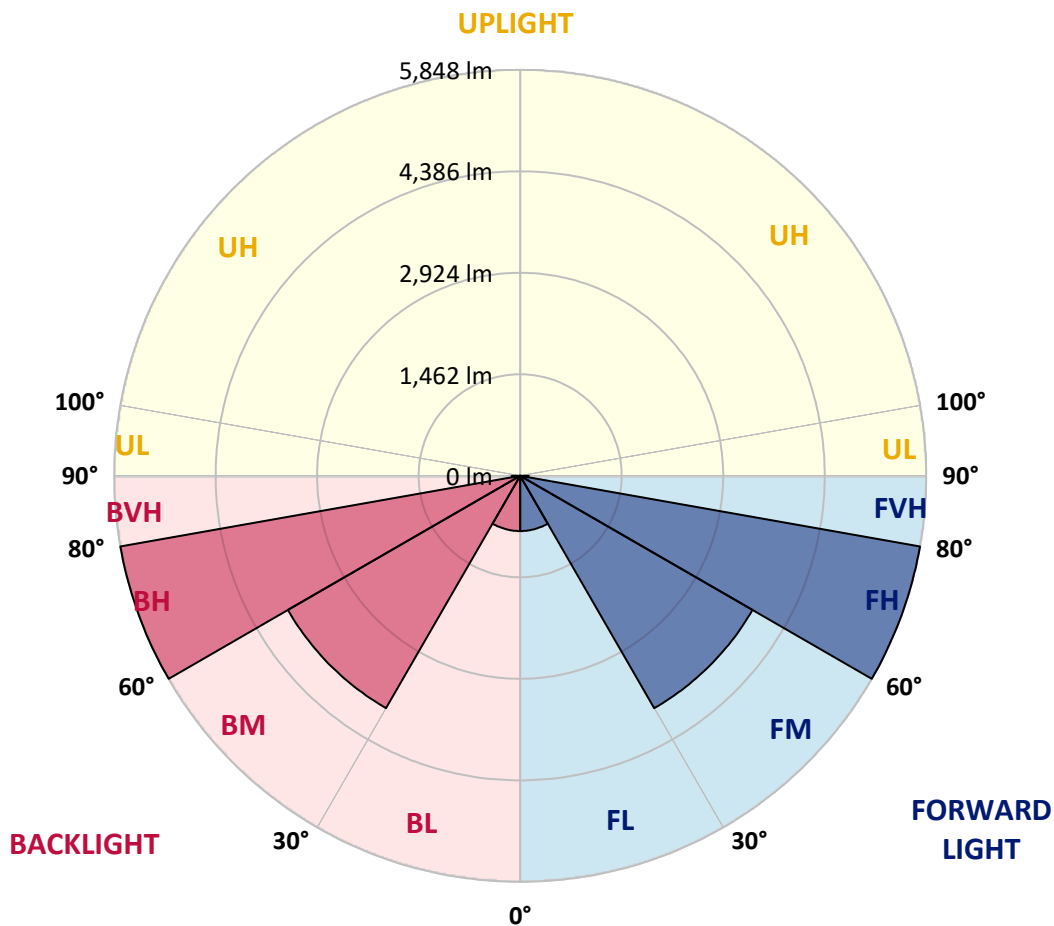
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	795.8	3.7			
FM	(30°-60°)	3864.2	18.2			
FH	(60°-80°)	5848.1	27.5			G3/7500
FVH	(80°-90°)	121.5	0.6			G2/225
BL	(0°-30°)	795.8	3.7	B2/1000		
BM	(30°-60°)	3864.2	18.2	B3/5000		
BH	(60°-80°)	5848.1	27.5	B5		G3/7500
BVH	(80°-90°)	121.5	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°	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2	1939.2
2.5°	1927.1	1932.6	1930.4	1926.0	1926.0	1922.7	1926.0	1928.2	1931.5	1933.7	1932.6
5°	1901.7	1906.1	1905.0	1901.7	1902.8	1899.5	1901.7	1905.0	1907.2	1908.3	1908.3
7.5°	1879.6	1884.0	1881.8	1876.3	1876.3	1872.9	1874.1	1877.4	1880.7	1881.8	1881.8
10°	1874.1	1878.5	1871.8	1863.0	1859.7	1855.3	1856.4	1859.7	1866.3	1869.6	1869.6
12.5°	1876.3	1879.6	1872.9	1859.7	1856.4	1852.0	1852.0	1855.3	1864.1	1868.5	1869.6
15°	1882.9	1886.2	1876.3	1861.9	1858.6	1855.3	1854.2	1858.6	1868.5	1876.3	1877.4
17.5°	1895.0	1898.4	1882.9	1863.0	1858.6	1859.7	1858.6	1861.9	1877.4	1891.7	1891.7
20°	1906.1	1908.3	1887.3	1863.0	1858.6	1859.7	1858.6	1865.2	1885.1	1905.0	1906.1
22.5°	1909.4	1911.6	1891.7	1870.7	1867.4	1868.5	1867.4	1874.1	1892.8	1912.7	1912.7
25°	1910.5	1913.8	1898.4	1881.8	1887.3	1889.5	1887.3	1888.4	1902.8	1920.5	1919.4
27.5°	1927.1	1931.5	1917.1	1902.8	1906.1	1905.0	1908.3	1911.6	1922.7	1940.4	1935.9
30°	1961.3	1964.7	1952.5	1938.1	1935.9	1928.2	1938.1	1949.2	1961.3	1976.8	1973.5
32.5°	2017.7	2024.3	2008.9	1993.4	1983.4	1979.0	1986.8	2005.5	2022.1	2038.7	2032.1
35°	2111.6	2116.0	2101.7	2073.0	2055.3	2055.3	2061.9	2086.2	2112.7	2133.7	2126.0
37.5°	2244.2	2249.7	2224.3	2190.1	2163.6	2163.6	2172.4	2197.8	2237.6	2267.4	2256.4
40°	2405.6	2413.3	2381.2	2345.9	2320.5	2316.0	2327.1	2355.8	2393.4	2431.0	2418.8
42.5°	2600.0	2608.9	2566.9	2535.9	2516.1	2516.1	2521.6	2548.1	2582.4	2628.8	2625.4
45°	2848.7	2864.1	2806.7	2775.7	2756.9	2761.4	2764.7	2787.9	2818.8	2871.9	2869.6
47.5°	3144.8	3160.3	3099.5	3067.4	3064.1	3085.1	3071.9	3088.4	3105.0	3165.8	3148.1
50°	3480.7	3507.2	3465.2	3463.0	3469.7	3508.3	3477.4	3486.2	3467.4	3506.1	3482.9
52.5°	3891.8	3930.4	3922.7	3936.0	4010.0	4089.5	4018.8	3987.9	3917.2	3929.3	3888.4
55°	4390.1	4448.7	4459.7	4539.3	4707.2	4869.7	4719.4	4594.5	4444.3	4416.6	4373.5
57.5°	4957.0	5003.4	5056.4	5218.8	5532.7	5821.1	5532.7	5256.4	5019.9	4963.6	4923.8
60°	5566.9	5624.4	5675.2	5915.0	6381.3	6786.8	6372.4	5933.8	5621.1	5544.8	5478.5
62.5°	6222.2	6296.2	6331.6	6597.9	7141.5	7625.5	7149.3	6617.8	6270.8	6189.0	6122.7
65°	6850.9	6911.7	6951.5	7235.4	7754.8	8239.9	7790.1	7266.4	6909.5	6802.3	6749.2
67.5°	7143.7	7176.9	7274.1	7595.7	8143.7	8697.3	8236.6	7629.9	7231.0	7043.2	7045.4
70°	6715.0	6647.6	6881.8	7396.8	8190.1	8978.0	8296.2	7381.3	6892.9	6587.9	6660.9
72.5°	5189.0	5073.0	5479.6	6360.3	7659.8	8799.0	7712.8	6410.0	5732.7	5113.9	5267.5
75°	2823.2	2691.7	3253.1	4366.9	6108.4	7626.6	6248.7	4491.8	3622.1	2802.2	2984.6
77.5°	796.7	747.0	1200.0	2112.7	3674.1	5354.8	3815.5	2159.1	1423.2	844.2	938.1
80°	244.2	236.5	320.4	636.5	1560.2	2564.7	1499.5	644.2	407.7	257.5	271.8
82.5°	144.8	132.6	159.1	232.0	397.8	805.5	386.7	242.0	194.5	130.4	141.4
85°	82.9	77.3	93.9	112.7	133.7	171.3	111.6	114.9	103.9	69.6	72.9
87.5°	34.3	30.9	36.5	35.4	30.9	39.8	29.8	35.4	42.0	27.6	25.4
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)