

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: P949471

Luminaire Tested: **GALN-SB4B-722-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-722-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19524 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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



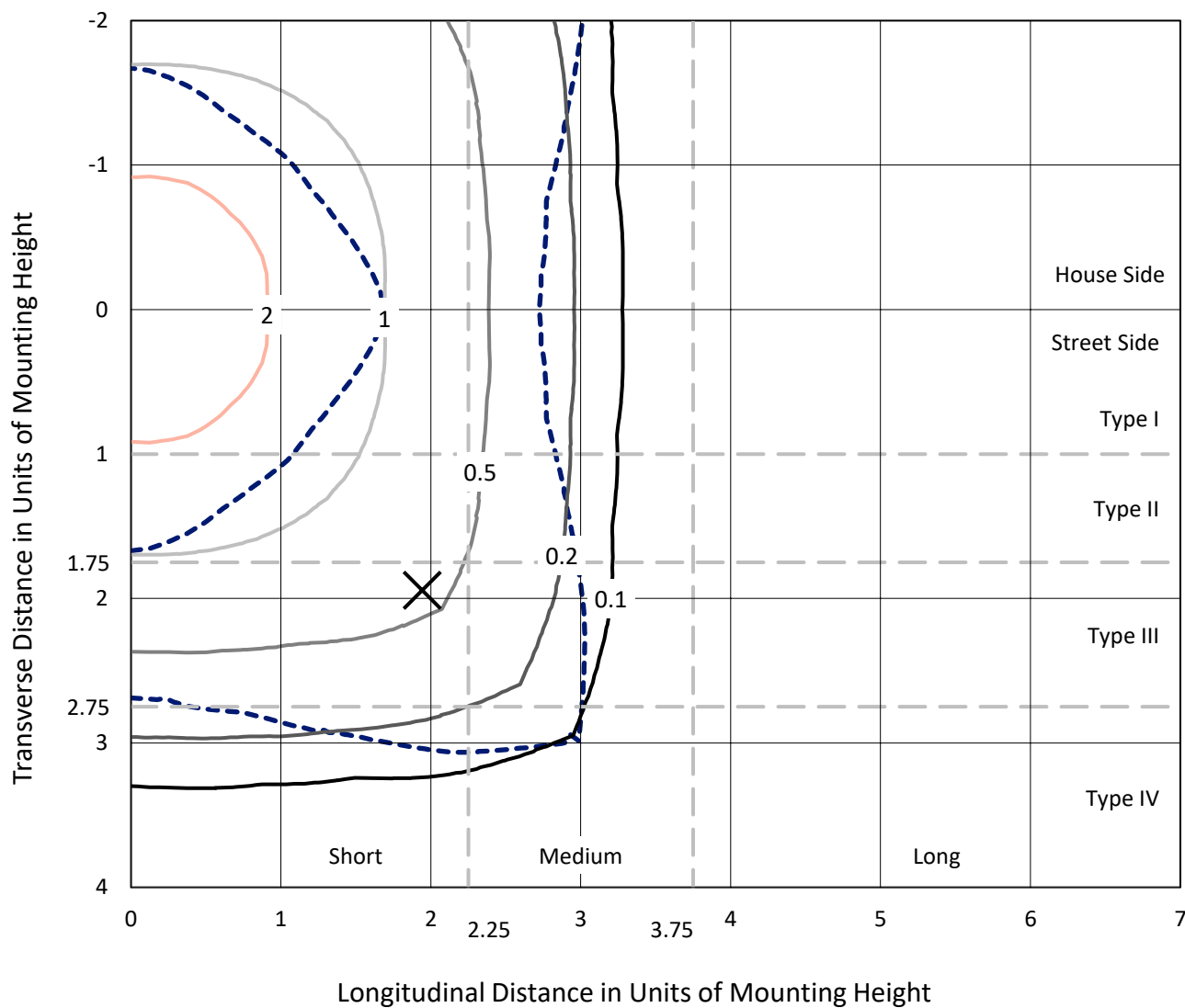
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

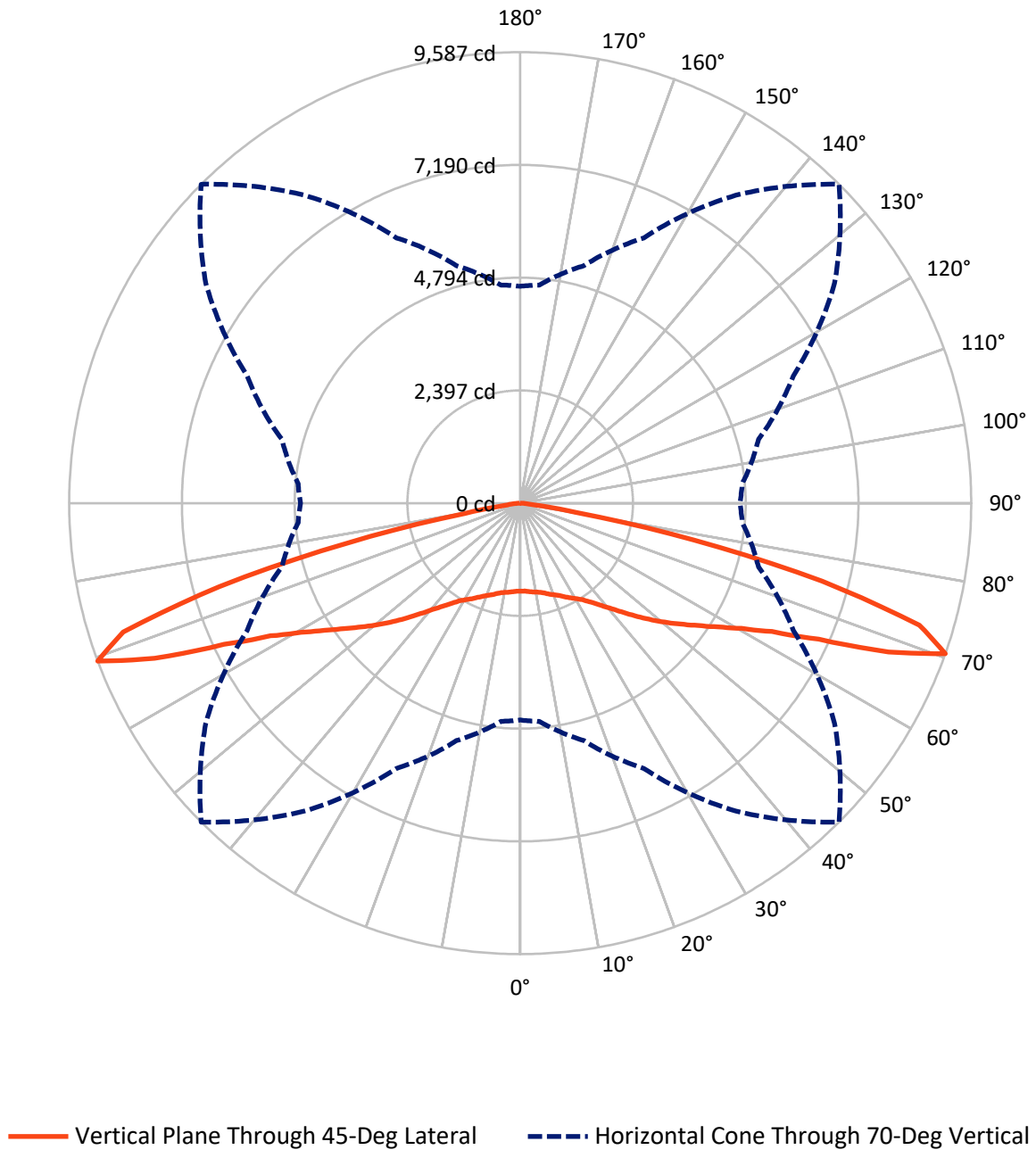


Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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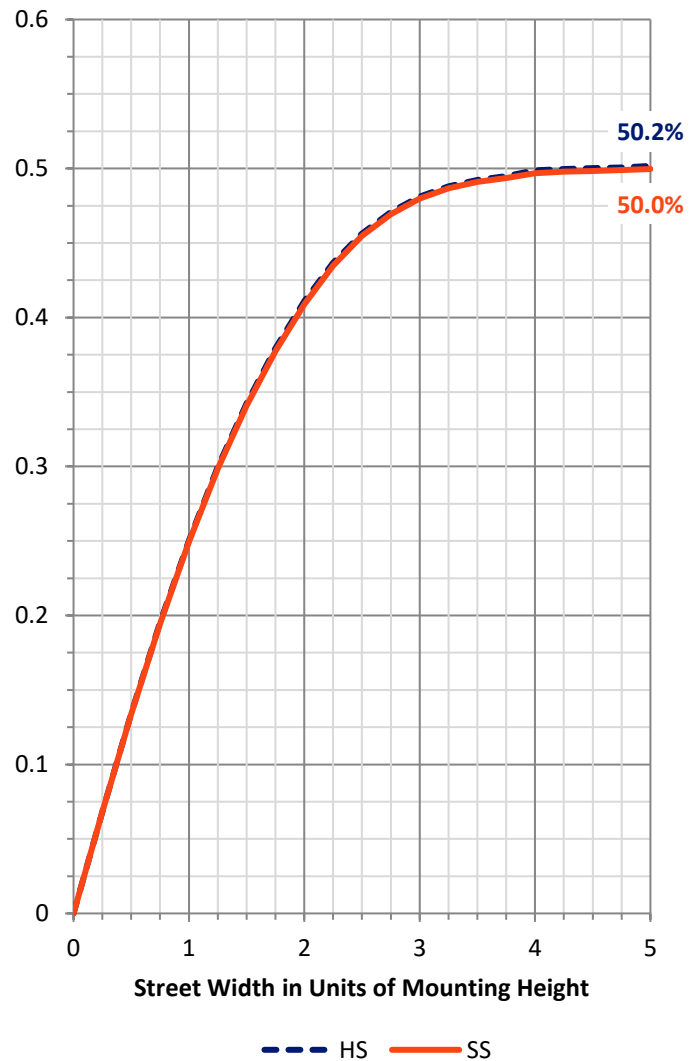
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9762.0	0.0	9762.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9762.0	0.0	9762.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19524.0	0.0	19524.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	0.9
10°-20°	563.4	2.9
20°-30°	1006.9	5.2
30°-40°	1632.1	8.4
40°-50°	2658.4	13.6
50°-60°	4053.2	20.8
60°-70°	6029.9	30.9
70°-80°	3286.5	16.8
80°-90°	111.9	0.6
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°	19524.0	100.0
0°-180°	19524.0	100.0

Coefficient of Utilization



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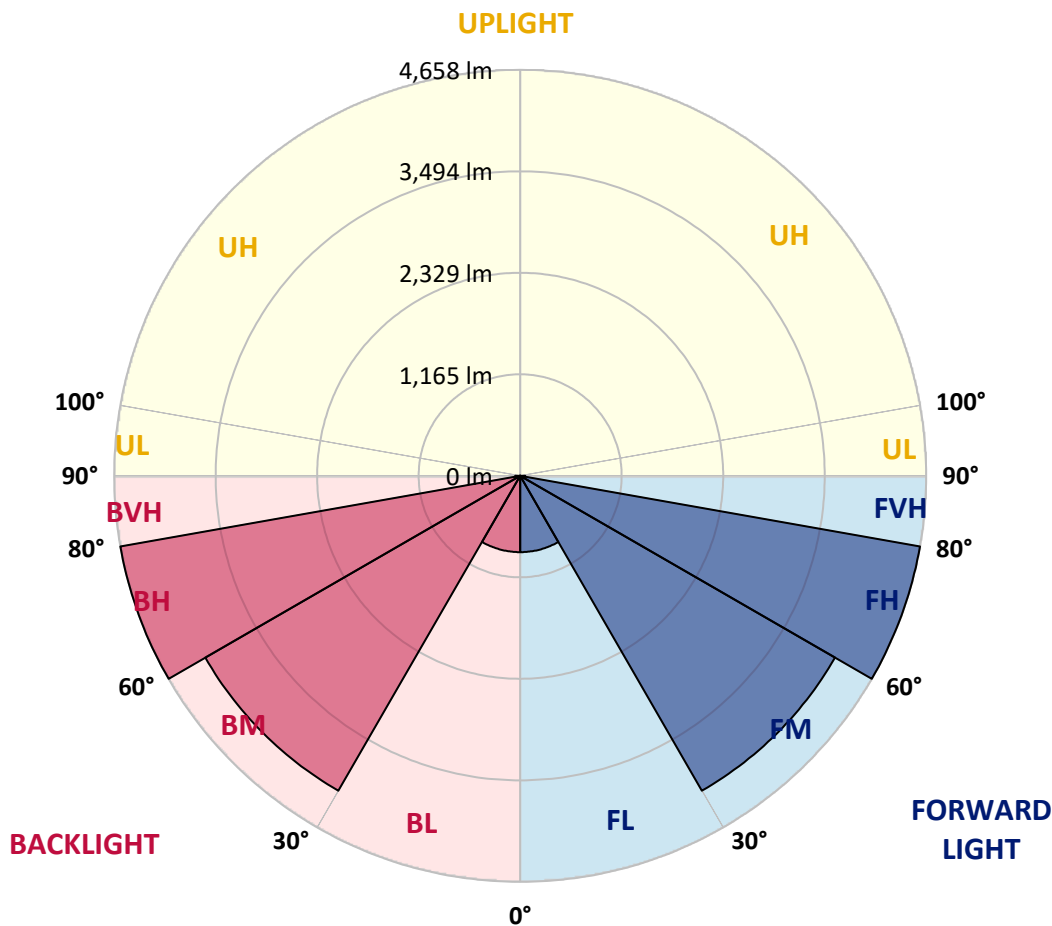
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	876.0	4.5			
FM	(30°-60°)	4171.9	21.4			
FH	(60°-80°)	4658.2	23.9			G2/5000
FVH	(80°-90°)	56.0	0.3			G1/100
BL	(0°-30°)	876.0	4.5	B2/1000		
BM	(30°-60°)	4171.9	21.4	B3/5000		
BH	(60°-80°)	4658.2	23.9	B4/5000		G2/5000
BVH	(80°-90°)	56.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2	1870.2
2.5°	1879.0	1881.0	1877.1	1875.1	1873.1	1870.2	1871.2	1876.1	1880.0	1879.0	1880.0
5°	1894.7	1896.7	1893.7	1892.7	1888.8	1887.8	1887.8	1892.7	1895.7	1893.7	1894.7
7.5°	1912.3	1915.3	1910.4	1909.4	1907.4	1905.5	1904.5	1909.4	1912.3	1912.3	1912.3
10°	1929.0	1931.9	1928.0	1925.1	1923.1	1923.1	1921.2	1925.1	1930.0	1929.0	1929.0
12.5°	1946.7	1948.6	1944.7	1942.7	1942.7	1945.7	1942.7	1944.7	1948.6	1946.7	1945.7
15°	1968.2	1969.2	1968.2	1971.2	1976.1	1985.9	1977.0	1975.1	1977.0	1972.1	1972.1
17.5°	1997.6	1999.6	2003.5	2010.4	2017.2	2034.9	2019.2	2014.3	2014.3	2004.5	2004.5
20°	2033.9	2036.8	2042.7	2054.5	2063.3	2080.0	2064.3	2057.4	2054.5	2041.7	2041.7
22.5°	2072.1	2077.0	2085.8	2101.5	2117.2	2132.9	2117.2	2105.4	2096.6	2080.0	2079.0
25°	2116.2	2122.1	2135.8	2161.3	2182.9	2205.4	2186.8	2163.3	2145.6	2122.1	2121.1
27.5°	2179.0	2185.8	2202.5	2233.8	2261.3	2280.9	2263.3	2232.9	2208.4	2179.9	2179.0
30°	2267.2	2274.0	2293.6	2327.0	2345.6	2358.3	2346.6	2323.0	2293.6	2261.3	2261.3
32.5°	2380.9	2389.7	2411.3	2442.6	2446.5	2448.5	2444.6	2432.8	2411.3	2372.1	2373.0
35°	2525.0	2534.8	2559.3	2584.8	2580.8	2584.8	2578.9	2575.0	2559.3	2514.2	2514.2
37.5°	2701.4	2713.2	2738.6	2758.2	2748.4	2743.5	2744.5	2745.5	2736.7	2686.7	2686.7
40°	2906.3	2921.9	2940.6	2961.1	2944.5	2929.8	2939.6	2947.4	2939.6	2888.6	2888.6
42.5°	3117.0	3139.5	3159.1	3188.5	3174.8	3156.2	3169.9	3178.7	3162.1	3107.2	3111.1
45°	3351.3	3372.8	3398.3	3442.4	3432.6	3413.0	3432.6	3434.6	3406.2	3341.5	3348.3
47.5°	3593.4	3615.9	3654.1	3712.9	3709.0	3687.5	3712.9	3699.2	3663.0	3585.5	3580.6
50°	3822.7	3854.1	3912.9	3995.2	4003.1	3976.6	4010.9	3984.5	3923.7	3826.7	3824.7
52.5°	4038.4	4071.7	4164.8	4276.6	4305.0	4270.7	4316.7	4270.7	4179.5	4055.0	4043.3
55°	4264.8	4302.0	4412.8	4558.9	4615.7	4590.2	4633.3	4563.8	4434.4	4283.4	4262.8
57.5°	4531.4	4553.9	4686.3	4859.8	4955.8	4961.7	4981.3	4863.7	4706.9	4535.3	4511.8
60°	4820.6	4851.9	4996.0	5203.8	5355.7	5404.8	5384.2	5209.7	5027.4	4830.4	4799.0
62.5°	5191.1	5225.4	5397.9	5646.9	5887.0	6008.5	5928.2	5675.3	5449.8	5213.6	5172.4
65°	5497.9	5536.1	5847.8	6291.8	6729.0	6973.1	6771.1	6305.5	5899.7	5566.5	5511.6
67.5°	5275.4	5322.4	5811.5	6627.0	7714.1	8442.4	7751.3	6727.0	5932.1	5480.2	5412.6
70°	4610.8	4654.9	5225.4	6222.2	7991.5	9587.2	8158.1	6405.5	5244.0	4738.2	4670.6
72.5°	3061.1	3203.3	3780.6	4976.4	7135.8	8871.7	7206.3	4875.5	3507.1	3054.3	2955.3
75°	1015.5	1129.2	1523.2	2579.9	4779.4	6634.9	4550.0	2282.9	1206.6	868.4	821.4
77.5°	255.8	295.0	406.8	738.1	1906.5	3777.6	1716.3	602.8	328.4	229.4	204.9
80°	124.5	137.2	196.0	246.0	477.4	1200.7	447.9	231.3	154.9	119.6	109.8
82.5°	68.6	69.6	110.8	139.2	177.4	310.7	184.3	135.3	89.2	72.5	72.5
85°	42.1	41.2	58.8	74.5	74.5	110.8	88.2	74.5	51.0	45.1	47.0
87.5°	16.7	16.7	21.6	23.5	20.6	28.4	22.5	24.5	19.6	18.6	19.6
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)