

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: P949303

Luminaire Tested: **GALN-SB4A-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949303
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-SB4A-835-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17463 lumens
Efficiency: N/A
Efficacy: 153.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

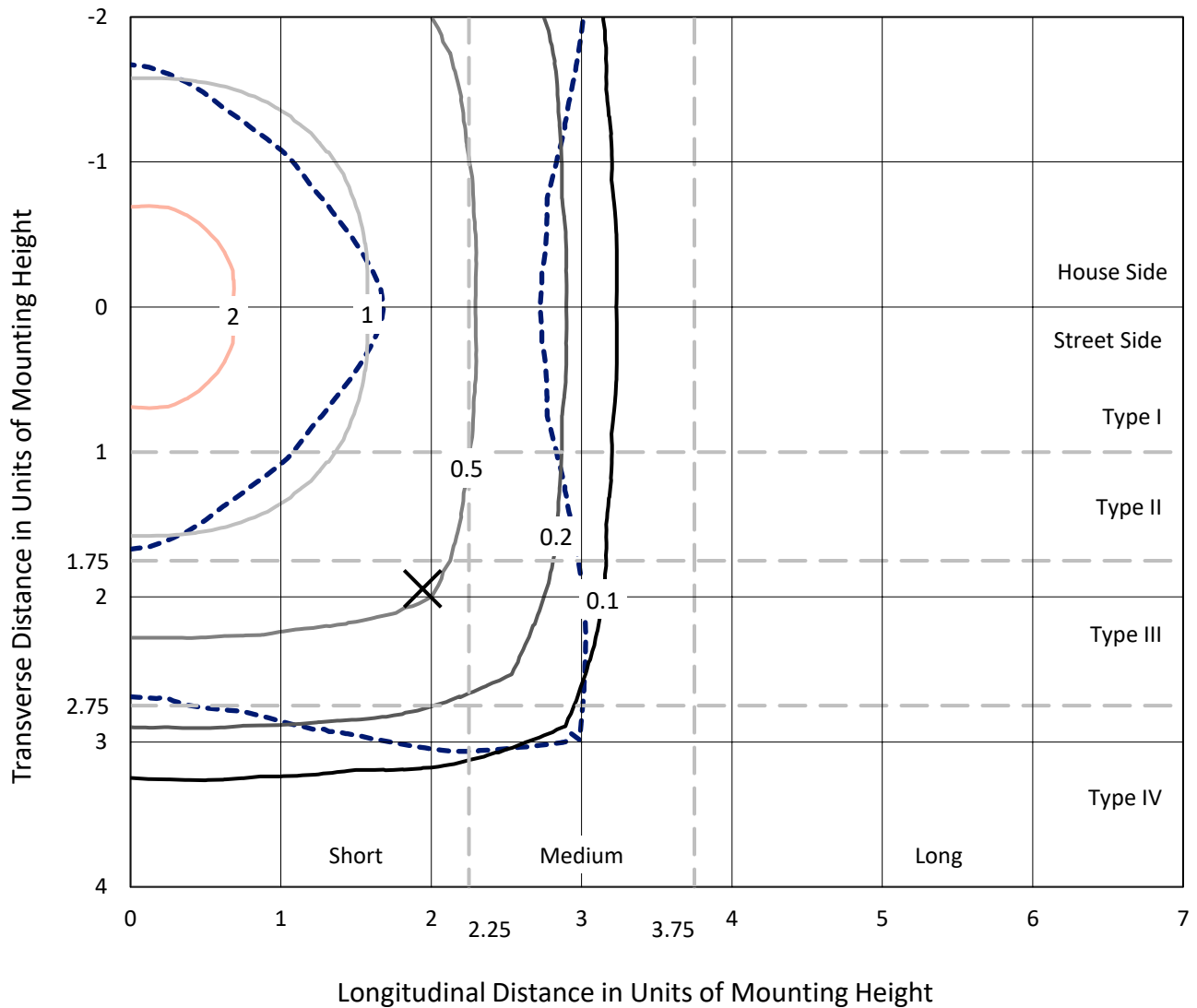
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

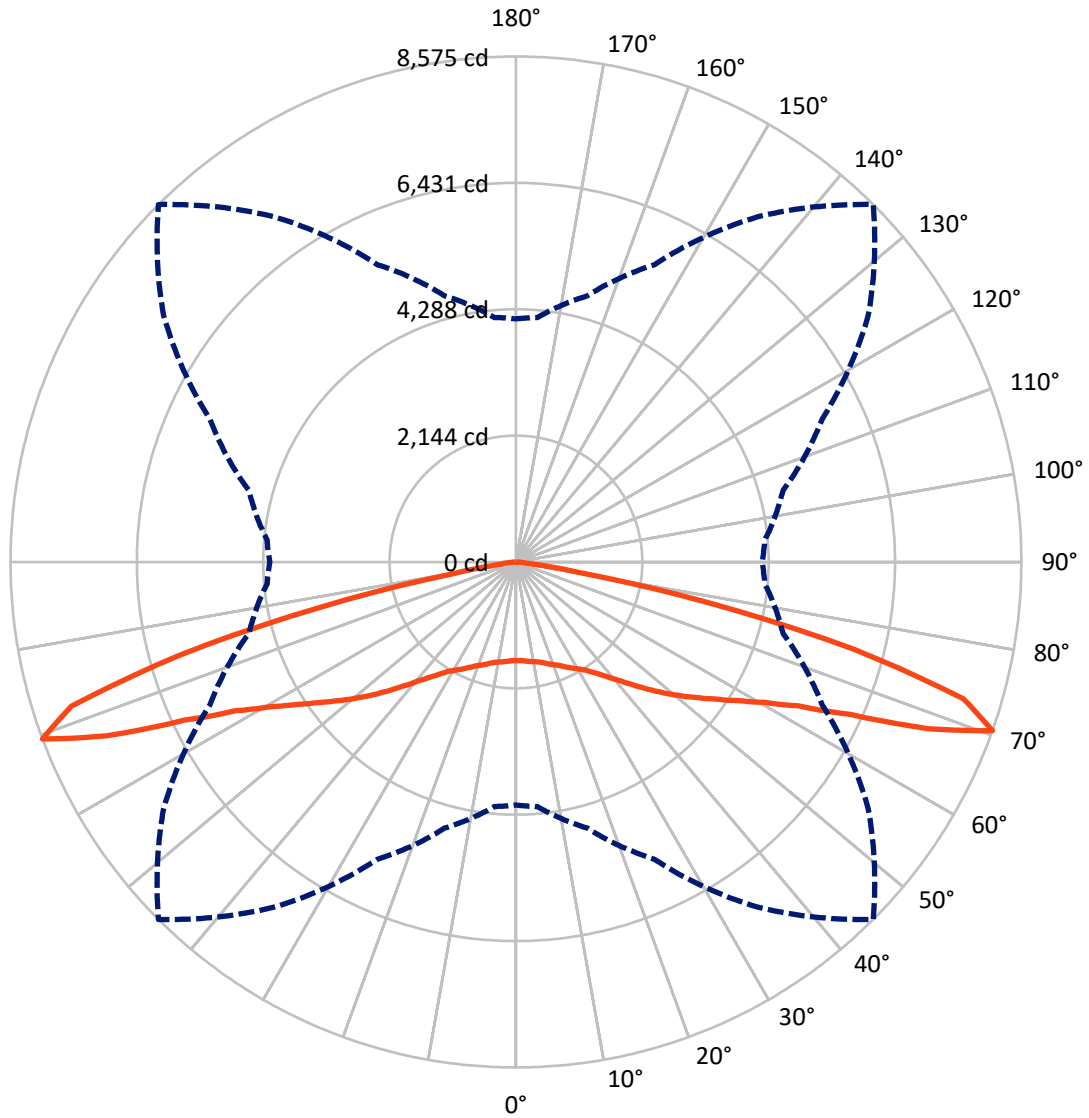
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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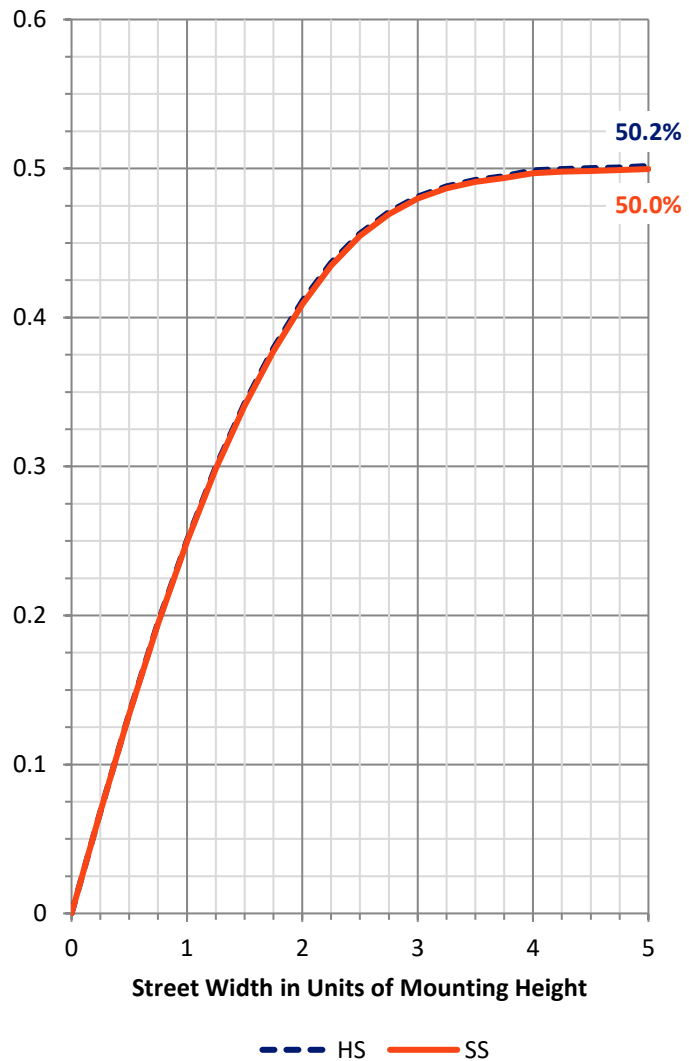
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8731.5	0.0	8731.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8731.5	0.0	8731.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17463.0	0.0	17463.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.5	0.9
10°-20°	503.9	2.9
20°-30°	900.6	5.2
30°-40°	1459.8	8.4
40°-50°	2377.8	13.6
50°-60°	3625.4	20.8
60°-70°	5393.4	30.9
70°-80°	2939.6	16.8
80°-90°	100.1	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°	17463.0	100.0
0°-180°	17463.0	100.0



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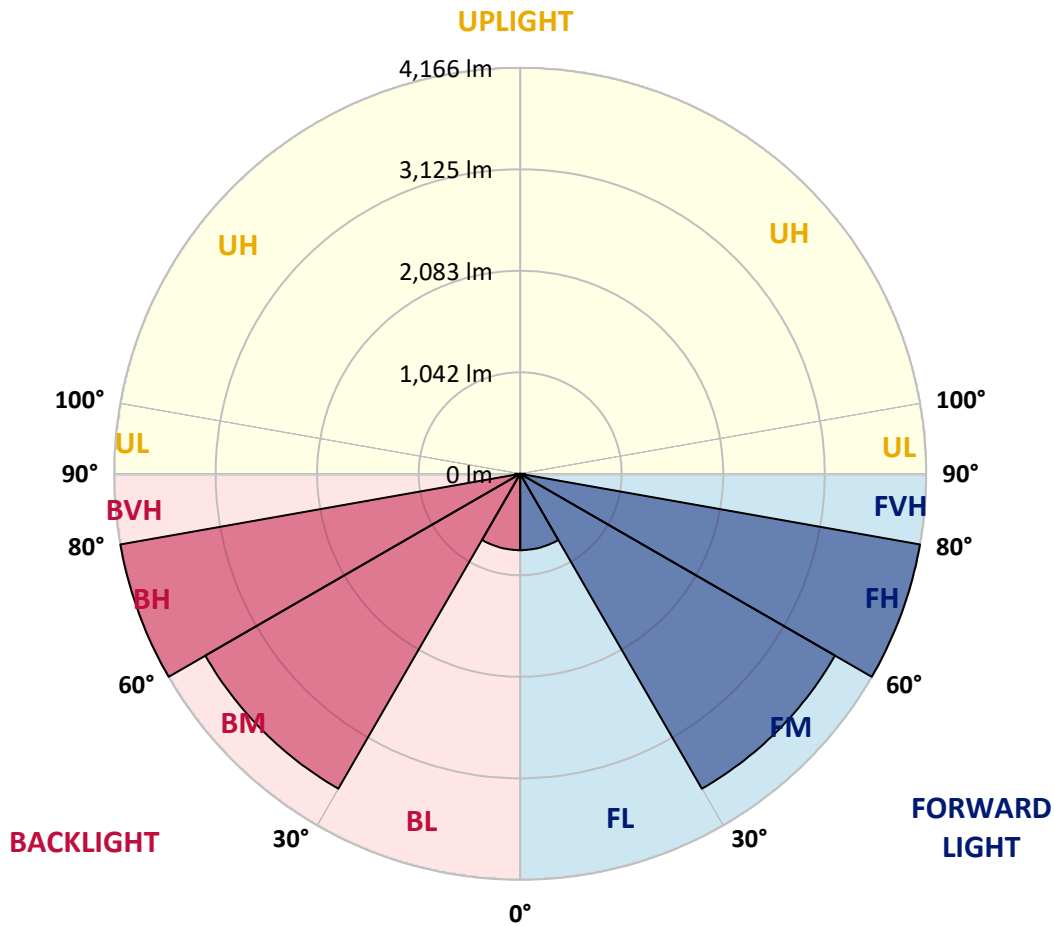
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	783.5	4.5			
FM (30°-60°)	3731.5	21.4			
FH (60°-80°)	4166.5	23.9			G2/5000
FVH (80°-90°)	50.0	0.3			G1/100
BL (0°-30°)	783.5	4.5	B2/1000		
BM (30°-60°)	3731.5	21.4	B3/5000		
BH (60°-80°)	4166.5	23.9	B4/5000		G2/5000
BVH (80°-90°)	50.0	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°
0°	1672.8	1672.8	1672.8	1672.8	1672.8	1672.8	1672.8	1672.8	1672.8	1672.8
2.5°	1680.7	1682.4	1678.9	1677.2	1675.4	1672.8	1673.7	1678.0	1681.5	1680.7
5°	1694.7	1696.4	1693.8	1692.9	1689.4	1688.6	1688.6	1692.9	1695.6	1693.8
7.5°	1710.5	1713.1	1708.7	1707.8	1706.1	1704.3	1703.5	1707.8	1710.5	1710.5
10°	1725.4	1728.0	1724.5	1721.9	1720.1	1720.1	1718.4	1721.9	1726.3	1725.4
12.5°	1741.2	1742.9	1739.4	1737.7	1737.7	1740.3	1737.7	1739.4	1742.9	1741.2
15°	1760.4	1761.3	1760.4	1763.1	1767.5	1776.2	1768.3	1766.6	1768.3	1764.0
17.5°	1786.7	1788.5	1792.0	1798.1	1804.3	1820.1	1806.0	1801.7	1801.7	1792.9
20°	1819.2	1821.8	1827.1	1837.6	1845.5	1860.4	1846.4	1840.2	1837.6	1826.2
22.5°	1853.4	1857.8	1865.7	1879.7	1893.7	1907.7	1893.7	1883.2	1875.3	1860.4
25°	1892.8	1898.1	1910.4	1933.2	1952.4	1972.6	1956.0	1934.9	1919.1	1898.1
27.5°	1948.9	1955.1	1970.0	1998.0	2022.6	2040.1	2024.3	1997.2	1975.2	1949.8
30°	2027.8	2034.0	2051.5	2081.3	2098.0	2109.4	2098.9	2077.8	2051.5	2022.6
32.5°	2129.5	2137.4	2156.7	2184.8	2188.3	2190.0	2186.5	2176.0	2156.7	2121.7
35°	2258.4	2267.2	2289.1	2311.9	2308.4	2311.9	2306.6	2303.1	2289.1	2248.8
37.5°	2416.2	2426.8	2449.5	2467.1	2458.3	2453.9	2454.8	2455.7	2447.8	2403.1
40°	2599.5	2613.5	2630.1	2648.6	2633.7	2620.5	2629.3	2636.3	2629.3	2583.7
42.5°	2788.0	2808.1	2825.7	2852.0	2839.7	2823.0	2835.3	2843.2	2828.3	2779.2
45°	2997.5	3016.8	3039.6	3079.0	3070.3	3052.7	3070.3	3072.0	3046.6	2988.7
47.5°	3214.0	3234.2	3268.4	3321.0	3317.5	3298.2	3321.0	3308.7	3276.3	3207.0
50°	3419.2	3447.2	3499.9	3573.5	3580.5	3556.8	3587.5	3563.9	3509.5	3422.7
52.5°	3612.1	3641.9	3725.2	3825.1	3850.5	3819.9	3861.1	3819.9	3738.3	3627.0
55°	3814.6	3847.9	3947.0	4077.6	4128.5	4105.7	4144.2	4082.0	3966.3	3831.3
57.5°	4053.1	4073.2	4191.6	4346.8	4432.7	4437.9	4455.5	4350.3	4210.0	4056.6
60°	4311.7	4339.7	4468.6	4654.5	4790.4	4834.2	4815.8	4659.7	4496.7	4320.5
62.5°	4643.1	4673.8	4828.1	5050.8	5265.6	5374.3	5302.4	5076.2	4874.5	4663.3
65°	4917.5	4951.7	5230.5	5627.6	6018.7	6237.0	6056.4	5639.9	5277.0	4978.9
67.5°	4718.5	4760.6	5198.1	5927.5	6899.8	7551.2	6933.1	6016.9	5305.9	4901.7
70°	4124.1	4163.5	4673.8	5565.4	7147.9	8575.2	7296.9	5729.3	4690.4	4238.0
72.5°	2738.0	2865.1	3381.5	4451.1	6382.5	7935.2	6445.6	4360.8	3136.9	2731.8
75°	908.3	1010.0	1362.4	2307.5	4274.9	5934.5	4069.7	2041.9	1079.2	776.8
77.5°	228.8	263.9	363.8	660.2	1705.2	3378.9	1535.1	539.2	293.7	205.2
80°	111.3	122.7	175.3	220.1	427.0	1074.0	400.7	206.9	138.5	107.0
82.5°	61.4	62.2	99.1	124.5	158.7	277.9	164.8	121.0	79.8	64.9
85°	37.7	36.8	52.6	66.6	66.6	99.1	78.9	66.6	45.6	40.3
87.5°	14.9	14.9	19.3	21.0	18.4	25.4	20.2	21.9	17.5	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1672.8
1681.5
1694.7
1710.5
1725.4
1740.3
1764.0
1792.9
1826.2
1859.5
1897.2
1948.9
2022.6
2122.5
2248.8
2403.1
2583.7
2782.7
2994.9
3202.6
3420.9
3616.5
3812.8
4035.5
4292.4
4626.4
4929.8
4841.2
4177.6
2643.3
734.7
183.2
98.2
64.9
42.1
17.5
0.0

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