

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: P949345

Luminaire Tested: **GALN-SB4A-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949345
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-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18009 lumens
Efficiency: N/A
Efficacy: 158.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

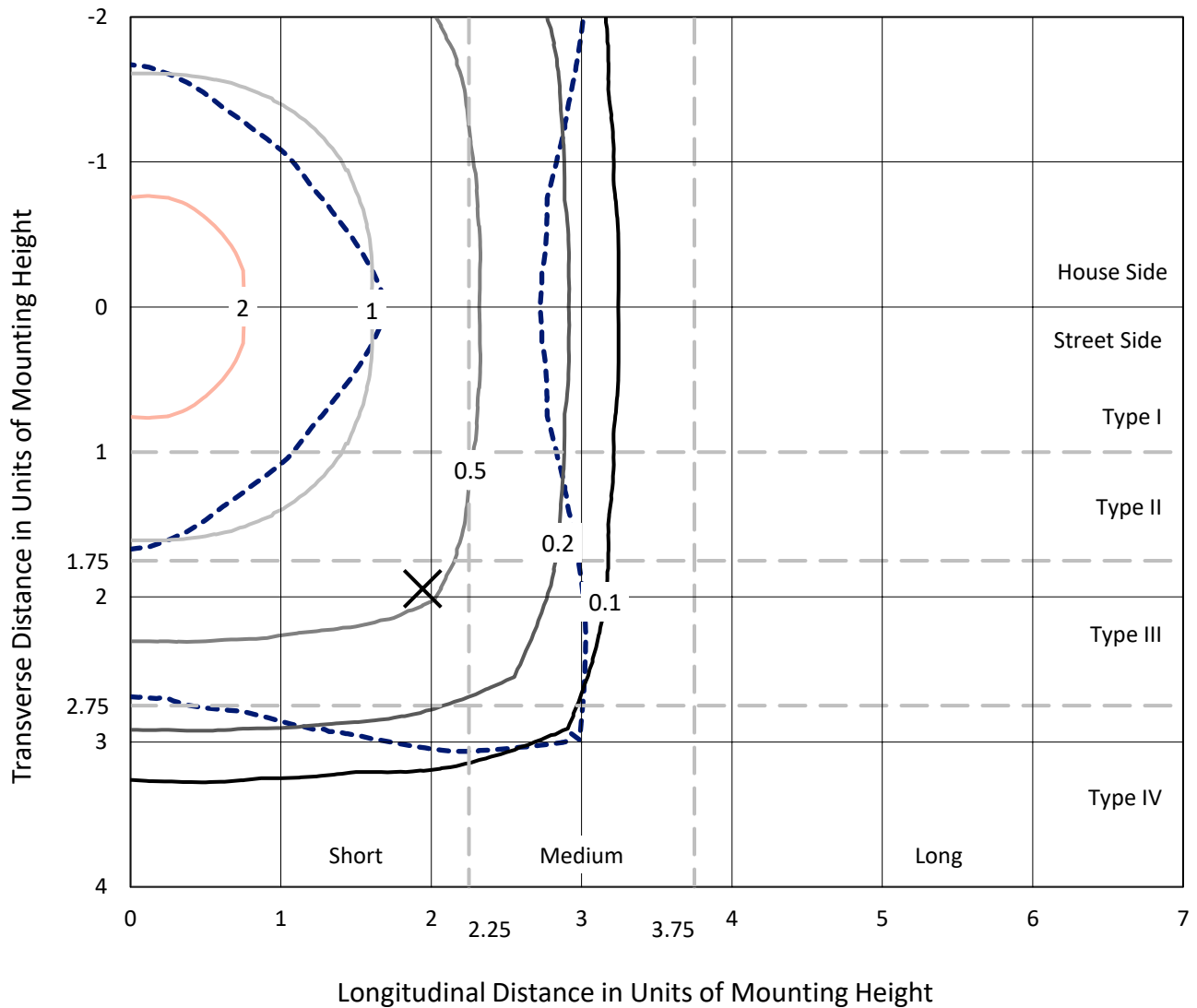
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

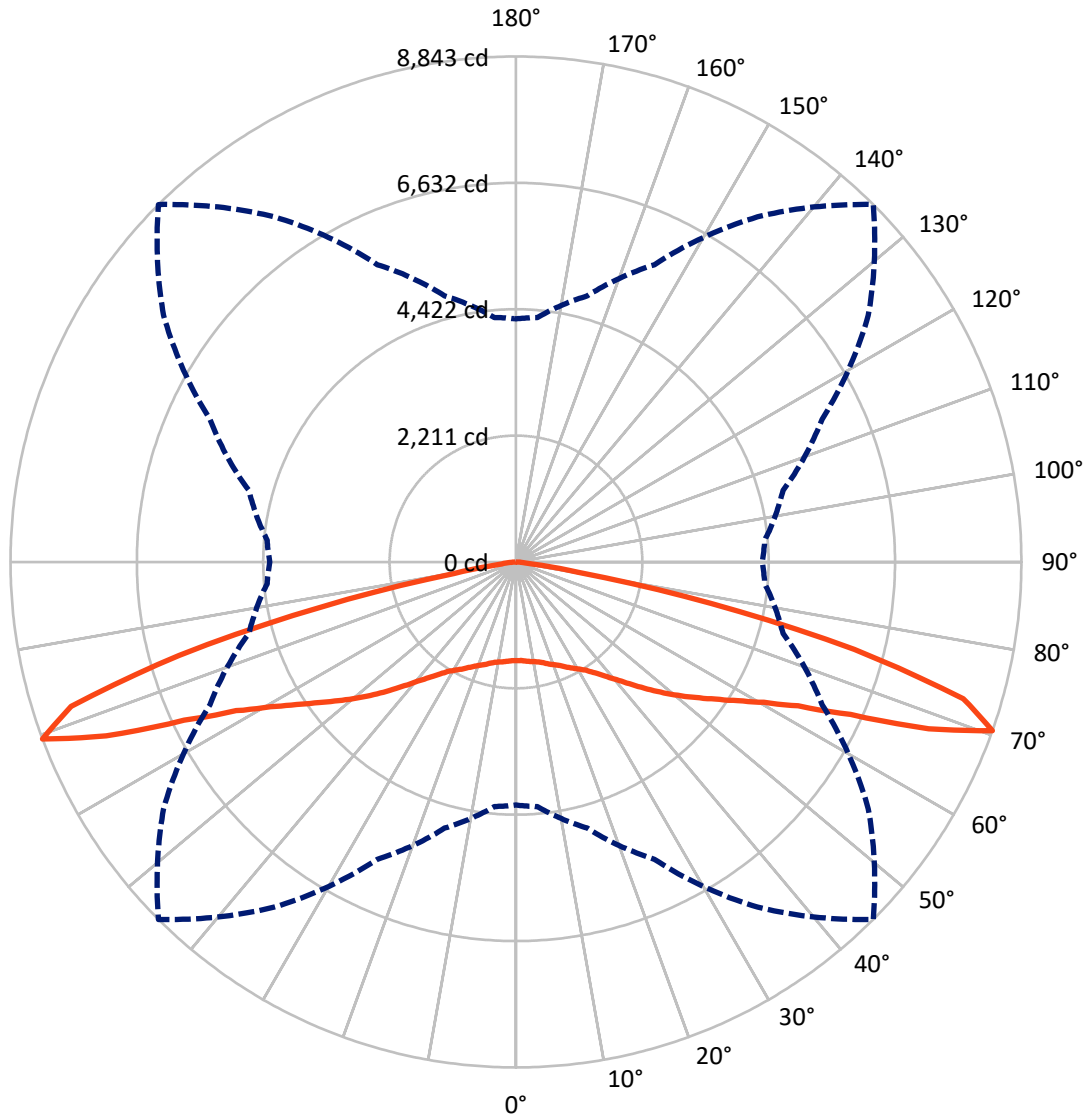
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	9004.5	0.0	9004.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9004.5	0.0	9004.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18009.0	0.0	18009.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	0.9
10°-20°	519.7	2.9
20°-30°	928.7	5.2
30°-40°	1505.5	8.4
40°-50°	2452.1	13.6
50°-60°	3738.7	20.8
60°-70°	5562.0	30.9
70°-80°	3031.5	16.8
80°-90°	103.2	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°	18009.0	100.0
0°-180°	18009.0	100.0

Coefficient of Utilization



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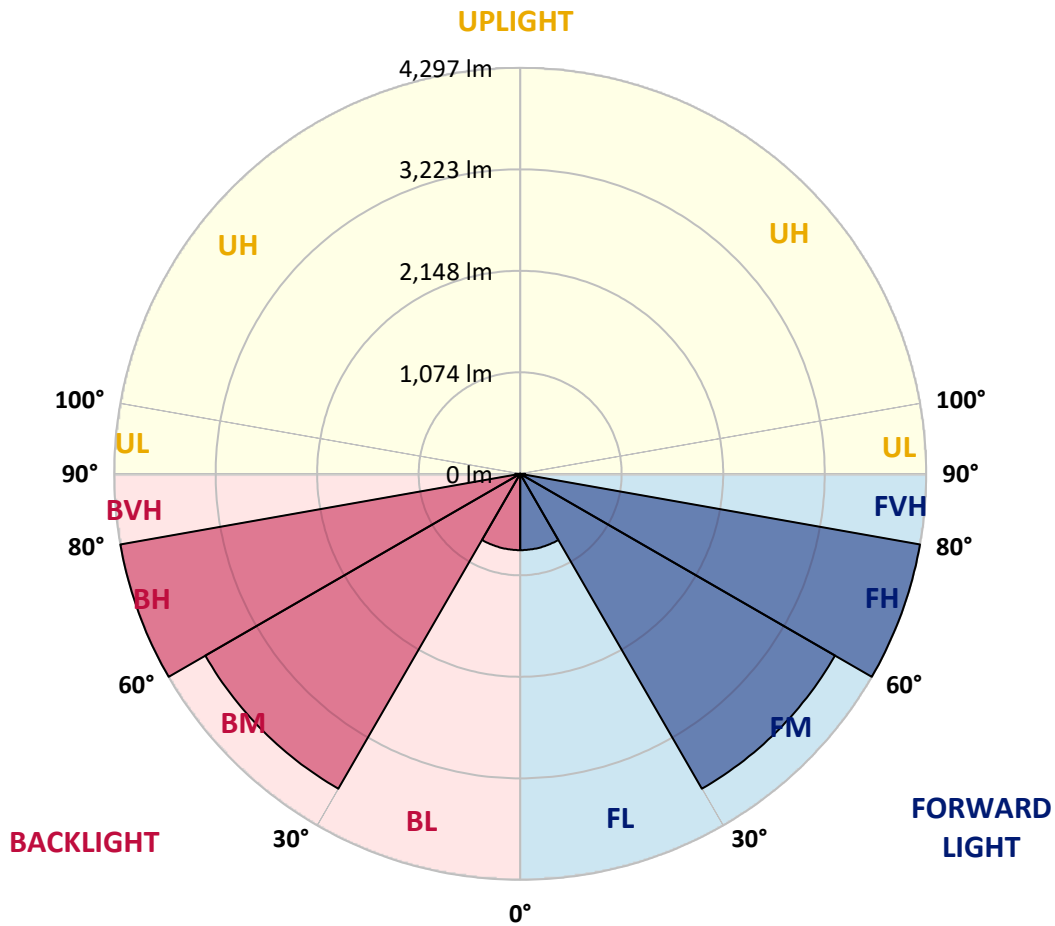
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	808.0	4.5			
FM (30°-60°)	3848.2	21.4			
FH (60°-80°)	4296.7	23.9			G2/5000
FVH (80°-90°)	51.6	0.3			G1/100
BL (0°-30°)	808.0	4.5	B2/1000		
BM (30°-60°)	3848.2	21.4	B3/5000		
BH (60°-80°)	4296.7	23.9	B4/5000		G2/5000
BVH (80°-90°)	51.6	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°	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1	1725.1
2.5°	1733.2	1735.0	1731.4	1729.6	1727.8	1725.1	1726.0	1730.5	1734.1	1733.2
5°	1747.7	1749.5	1746.8	1745.9	1742.3	1741.4	1741.4	1745.9	1748.6	1746.8
7.5°	1764.0	1766.7	1762.1	1761.2	1759.4	1757.6	1756.7	1761.2	1764.0	1764.0
10°	1779.3	1782.0	1778.4	1775.7	1773.9	1773.9	1772.1	1775.7	1780.2	1779.3
12.5°	1795.6	1797.4	1793.8	1792.0	1792.0	1794.7	1792.0	1793.8	1797.4	1795.6
15°	1815.5	1816.4	1815.5	1818.2	1822.7	1831.8	1823.6	1821.8	1823.6	1819.1
17.5°	1842.6	1844.4	1848.0	1854.4	1860.7	1877.0	1862.5	1858.0	1858.0	1848.9
20°	1876.1	1878.8	1884.2	1895.1	1903.2	1918.6	1904.1	1897.8	1895.1	1883.3
22.5°	1911.3	1915.8	1924.0	1938.4	1952.9	1967.4	1952.9	1942.1	1933.9	1918.6
25°	1952.0	1957.4	1970.1	1993.6	2013.5	2034.3	2017.1	1995.4	1979.1	1957.4
27.5°	2009.9	2016.2	2031.6	2060.5	2085.8	2103.9	2087.6	2059.6	2037.0	2010.8
30°	2091.2	2097.6	2115.7	2146.4	2163.6	2175.3	2164.5	2142.8	2115.7	2085.8
32.5°	2196.1	2204.3	2224.2	2253.1	2256.7	2258.5	2254.9	2244.0	2224.2	2188.0
35°	2329.0	2338.1	2360.7	2384.2	2380.6	2384.2	2378.8	2375.1	2360.7	2319.1
37.5°	2491.8	2502.6	2526.1	2544.2	2535.2	2530.7	2531.6	2532.5	2524.3	2478.2
40°	2680.7	2695.2	2712.4	2731.4	2716.0	2702.4	2711.5	2718.7	2711.5	2664.5
42.5°	2875.1	2895.9	2914.0	2941.1	2928.5	2911.3	2923.9	2932.1	2916.7	2866.1
45°	3091.2	3111.1	3134.6	3175.3	3166.3	3148.2	3166.3	3168.1	3141.8	3082.2
47.5°	3314.5	3335.3	3370.6	3424.8	3421.2	3401.3	3424.8	3412.2	3378.7	3307.3
50°	3526.1	3555.0	3609.3	3685.2	3692.5	3668.0	3699.7	3675.3	3619.2	3529.7
52.5°	3725.0	3755.7	3841.6	3944.7	3970.9	3939.3	3981.8	3939.3	3855.2	3740.4
55°	3933.9	3968.2	4070.4	4205.1	4257.5	4234.0	4273.8	4209.6	4090.3	3951.0
57.5°	4179.8	4200.6	4322.6	4482.7	4571.3	4576.7	4594.8	4486.3	4341.6	4183.4
60°	4446.5	4475.4	4608.3	4800.0	4940.2	4985.4	4966.4	4805.4	4637.3	4455.5
62.5°	4788.3	4819.9	4979.0	5208.7	5430.2	5542.3	5468.2	5234.9	5027.0	4809.1
65°	5071.3	5106.5	5394.0	5803.6	6206.8	6432.0	6245.7	5816.3	5441.9	5134.5
67.5°	4866.0	4909.4	5360.6	6112.8	7115.5	7787.3	7149.8	6205.0	5471.8	5055.0
70°	4253.0	4293.7	4819.9	5739.4	7371.4	8843.3	7525.1	5908.5	4837.1	4370.6
72.5°	2823.6	2954.7	3487.2	4590.3	6582.1	8183.3	6647.1	4497.1	3235.0	2817.3
75°	936.7	1041.6	1405.0	2379.7	4408.5	6120.0	4197.0	2105.7	1113.0	801.1
77.5°	236.0	272.1	375.2	680.8	1758.5	3484.5	1583.1	556.0	302.9	211.6
80°	114.8	126.6	180.8	226.9	440.3	1107.6	413.2	213.4	142.9	110.3
82.5°	63.3	64.2	102.2	128.4	163.6	286.6	170.0	124.8	82.3	66.9
85°	38.9	38.0	54.2	68.7	68.7	102.2	81.4	68.7	47.0	41.6
87.5°	15.4	15.4	19.9	21.7	19.0	26.2	20.8	22.6	18.1	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1725.1
1734.1
1747.7
1764.0
1779.3
1794.7
1819.1
1848.9
1883.3
1917.7
1956.5
2009.9
2085.8
2188.9
2319.1
2478.2
2664.5
2869.7
3088.5
3302.8
3527.9
3729.5
3932.1
4161.7
4426.6
4771.1
5083.9
4992.6
4308.2
2725.9
757.7
189.0
101.3
66.9
43.4
18.1
0.0

OF REPORT)