

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: P949198

Luminaire Tested: **GALN-SB4A-740-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949198
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-740-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19919 lumens
Efficiency: N/A
Efficacy: 174.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

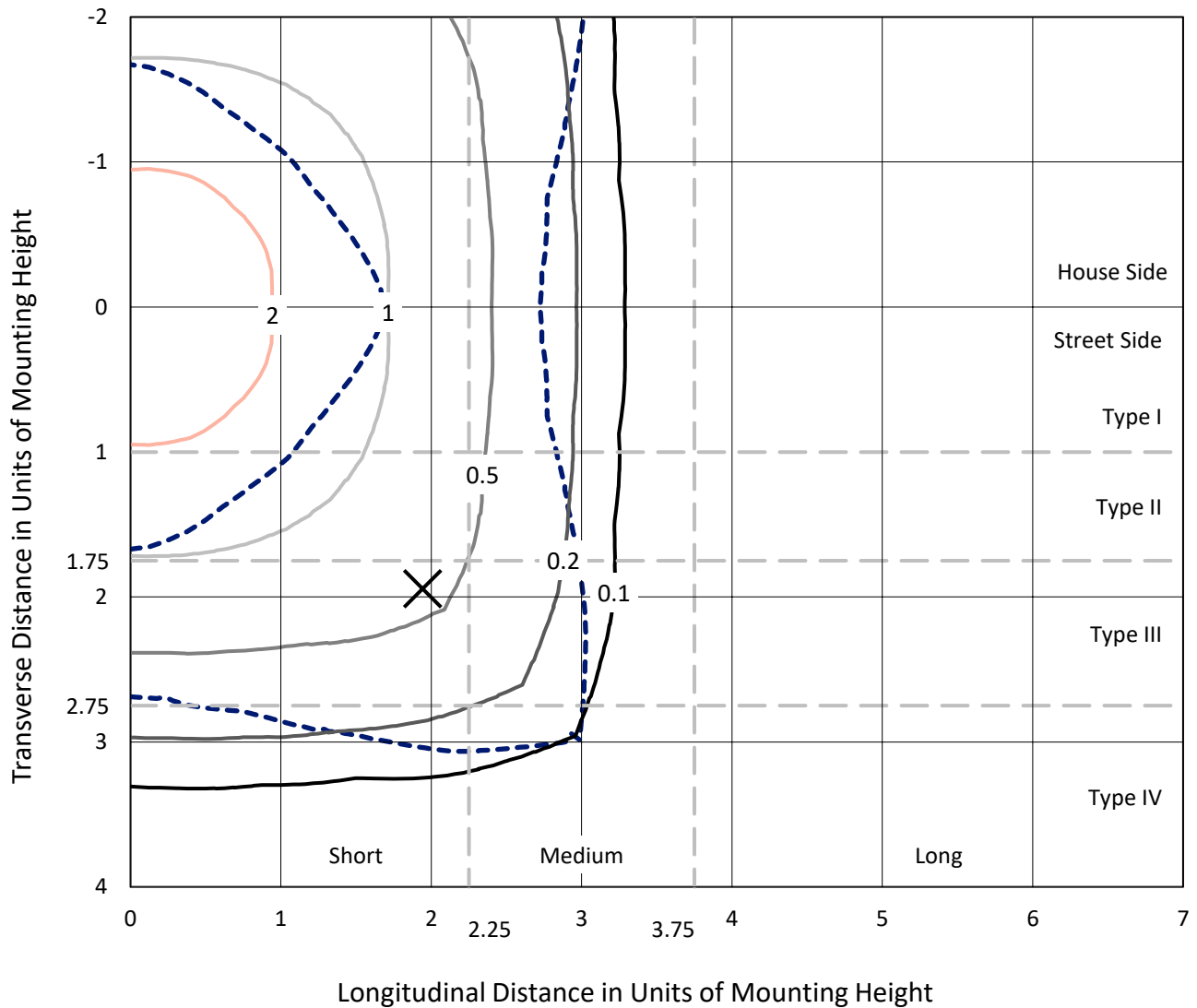
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

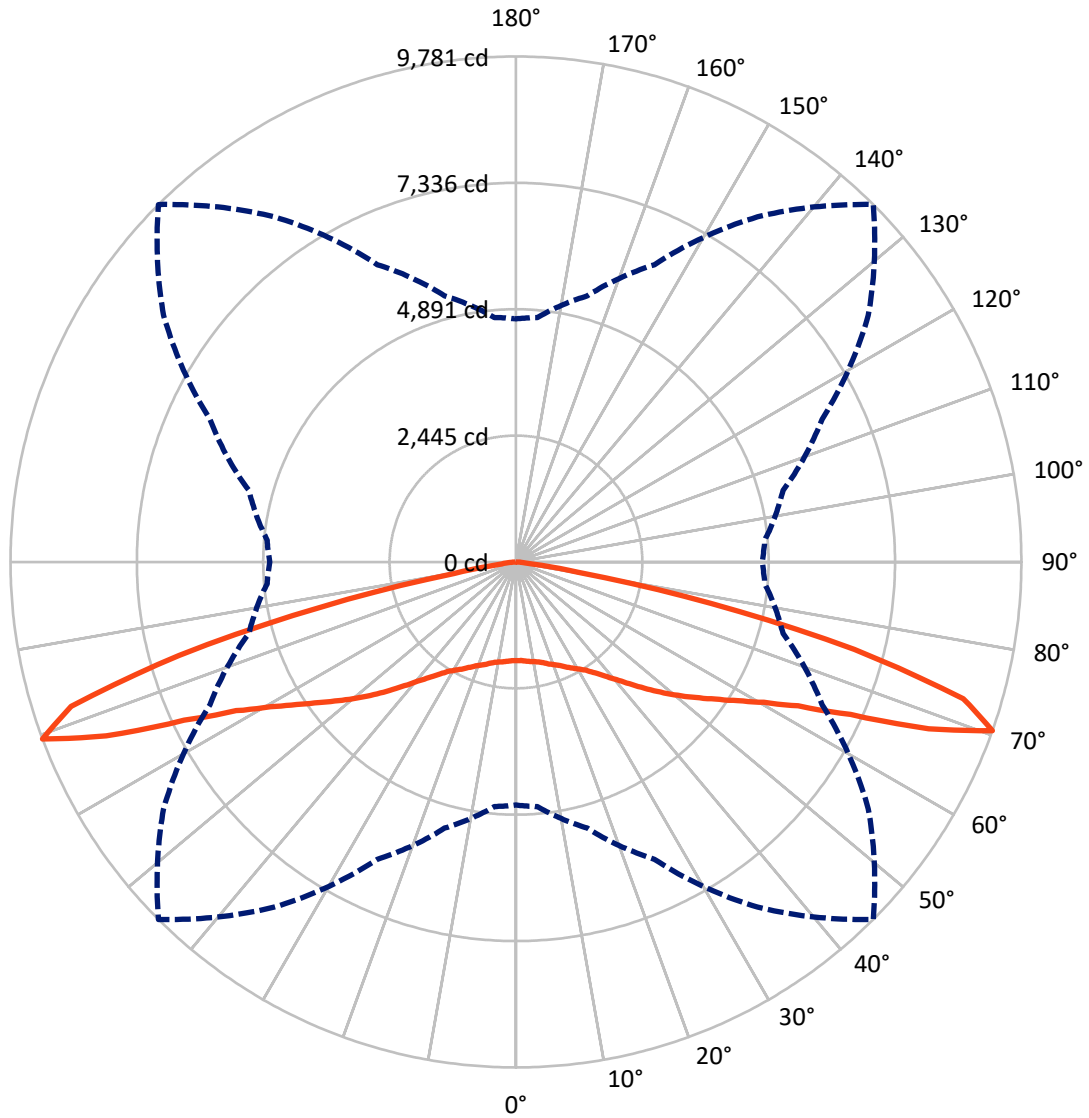
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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	9959.5	0.0	9959.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9959.5	0.0	9959.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	19919.0	0.0	19919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.4	0.9
10°-20°	574.8	2.9
20°-30°	1027.2	5.2
30°-40°	1665.1	8.4
40°-50°	2712.2	13.6
50°-60°	4135.2	20.8
60°-70°	6151.9	30.9
70°-80°	3353.0	16.8
80°-90°	114.2	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°	19919.0	100.0
0°-180°	19919.0	100.0

Coefficient of Utilization



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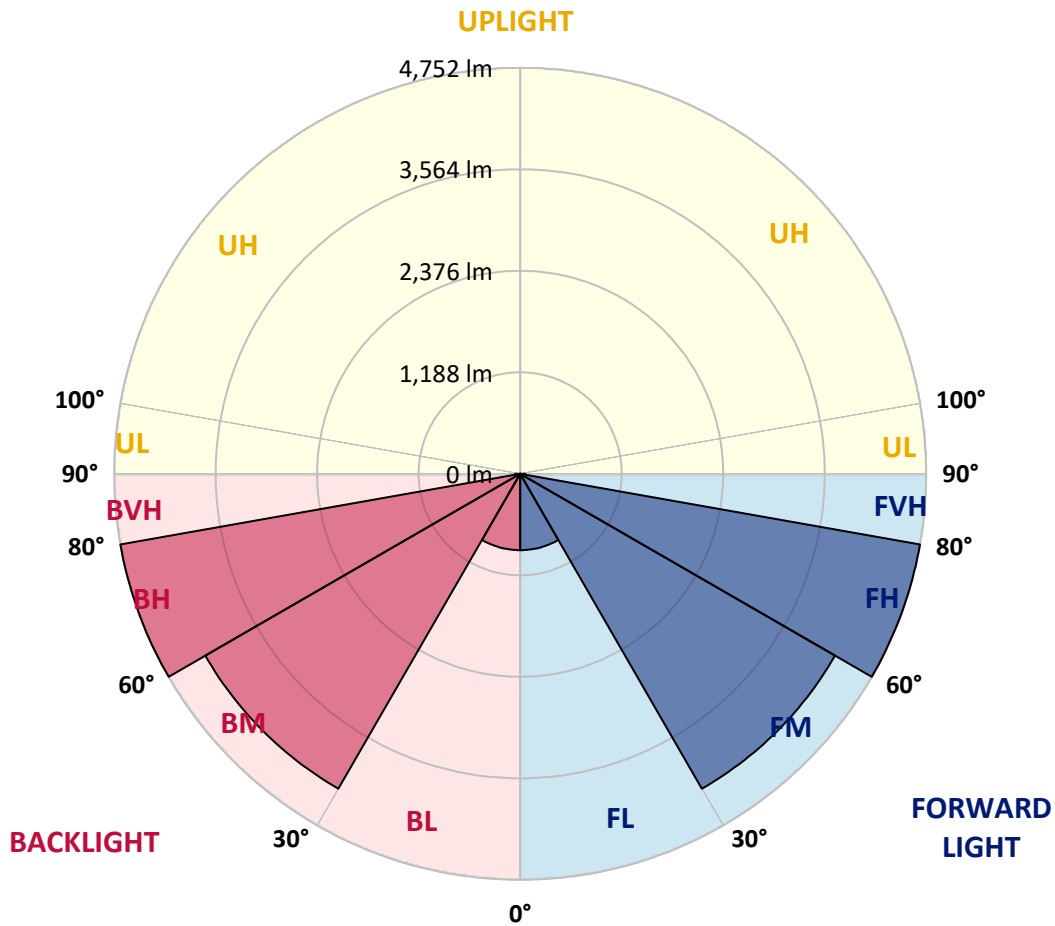
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	893.7	4.5			
FM (30°-60°)	4256.3	21.4			
FH (60°-80°)	4752.4	23.9			G2/5000
FVH (80°-90°)	57.1	0.3			G1/100
BL (0°-30°)	893.7	4.5	B2/1000		
BM (30°-60°)	4256.3	21.4	B3/5000		
BH (60°-80°)	4752.4	23.9	B4/5000		G2/5000
BVH (80°-90°)	57.1	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°	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0	1908.0
2.5°	1917.0	1919.0	1915.0	1913.0	1911.0	1908.0	1909.0	1914.0	1918.0	1917.0
5°	1933.0	1935.0	1932.0	1931.0	1927.0	1926.0	1926.0	1931.0	1934.0	1932.0
7.5°	1951.0	1954.0	1949.0	1948.0	1946.0	1944.0	1943.0	1948.0	1951.0	1951.0
10°	1968.0	1971.0	1967.0	1964.0	1962.0	1962.0	1960.0	1964.0	1969.0	1968.0
12.5°	1986.0	1988.0	1984.0	1982.0	1982.0	1985.0	1982.0	1984.0	1988.0	1986.0
15°	2008.0	2009.0	2008.0	2011.0	2016.0	2026.0	2017.0	2015.0	2017.0	2012.0
17.5°	2038.0	2040.0	2044.0	2051.0	2058.0	2076.0	2060.0	2055.0	2055.0	2045.0
20°	2075.0	2078.0	2084.0	2096.0	2105.0	2122.0	2106.0	2099.0	2096.0	2083.0
22.5°	2114.0	2119.0	2128.0	2144.0	2160.0	2176.0	2160.0	2148.0	2139.0	2122.0
25°	2159.0	2165.0	2179.0	2205.0	2227.0	2250.0	2231.0	2207.0	2189.0	2165.0
27.5°	2223.0	2230.0	2247.0	2279.0	2307.0	2327.0	2309.0	2278.0	2253.0	2224.0
30°	2313.0	2320.0	2340.0	2374.0	2393.0	2406.0	2394.0	2370.0	2340.0	2307.0
32.5°	2429.0	2438.0	2460.0	2492.0	2496.0	2498.0	2494.0	2482.0	2460.0	2420.0
35°	2576.0	2586.0	2611.0	2637.0	2633.0	2637.0	2631.0	2627.0	2611.0	2565.0
37.5°	2756.0	2768.0	2794.0	2814.1	2804.1	2799.0	2800.0	2801.0	2792.0	2741.0
40°	2965.1	2981.1	3000.1	3021.1	3004.1	2989.1	2999.1	3007.1	2999.1	2947.1
42.5°	3180.1	3203.1	3223.1	3253.1	3239.1	3220.1	3234.1	3243.1	3226.1	3170.1
45°	3419.1	3441.1	3467.1	3512.1	3502.1	3482.1	3502.1	3504.1	3475.1	3409.1
47.5°	3666.1	3689.1	3728.1	3788.1	3784.1	3762.1	3788.1	3774.1	3737.1	3658.1
50°	3900.1	3932.1	3992.1	4076.1	4084.1	4057.1	4092.1	4065.1	4003.1	3904.1
52.5°	4120.1	4154.1	4249.1	4363.1	4392.1	4357.1	4404.1	4357.1	4264.1	4137.1
55°	4351.1	4389.1	4502.1	4651.1	4709.1	4683.1	4727.1	4656.1	4524.1	4370.1
57.5°	4623.1	4646.1	4781.1	4958.1	5056.1	5062.1	5082.1	4962.1	4802.1	4627.1
60°	4918.1	4950.1	5097.1	5309.1	5464.1	5514.1	5493.1	5315.1	5129.1	4928.1
62.5°	5296.1	5331.1	5507.1	5761.1	6006.1	6130.1	6048.1	5790.1	5560.1	5319.1
65°	5609.1	5648.1	5966.1	6419.1	6865.1	7114.1	6908.1	6433.1	6019.1	5679.1
67.5°	5382.1	5430.1	5929.1	6761.1	7870.1	8613.2	7908.1	6863.1	6052.1	5591.1
70°	4704.1	4749.1	5331.1	6348.1	8153.1	9781.2	8323.1	6535.1	5350.1	4834.1
72.5°	3123.1	3268.1	3857.1	5077.1	7280.1	9051.2	7352.1	4974.1	3578.1	3116.1
75°	1036.0	1152.0	1554.0	2632.0	4876.1	6769.1	4642.1	2329.0	1231.0	886.0
77.5°	261.0	301.0	415.0	753.0	1945.0	3854.1	1751.0	615.0	335.0	234.0
80°	127.0	140.0	200.0	251.0	487.0	1225.0	457.0	236.0	158.0	122.0
82.5°	70.0	71.0	113.0	142.0	181.0	317.0	188.0	138.0	91.0	74.0
85°	43.0	42.0	60.0	76.0	76.0	113.0	90.0	76.0	52.0	46.0
87.5°	17.0	17.0	22.0	24.0	21.0	29.0	23.0	25.0	20.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1908.0
1918.0
1933.0
1951.0
1968.0
1985.0
2012.0
2045.0
2083.0
2121.0
2164.0
2223.0
2307.0
2421.0
2565.0
2741.0
2947.1
3174.1
3416.1
3653.1
3902.1
4125.1
4349.1
4603.1
4896.1
5277.1
5623.1
5522.1
4765.1
3015.1
838.0
209.0
112.0
74.0
48.0
20.0
0.0

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