

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: P950563

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

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950563
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-SB5A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22011 lumens
Efficiency: N/A
Efficacy: 155.3 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

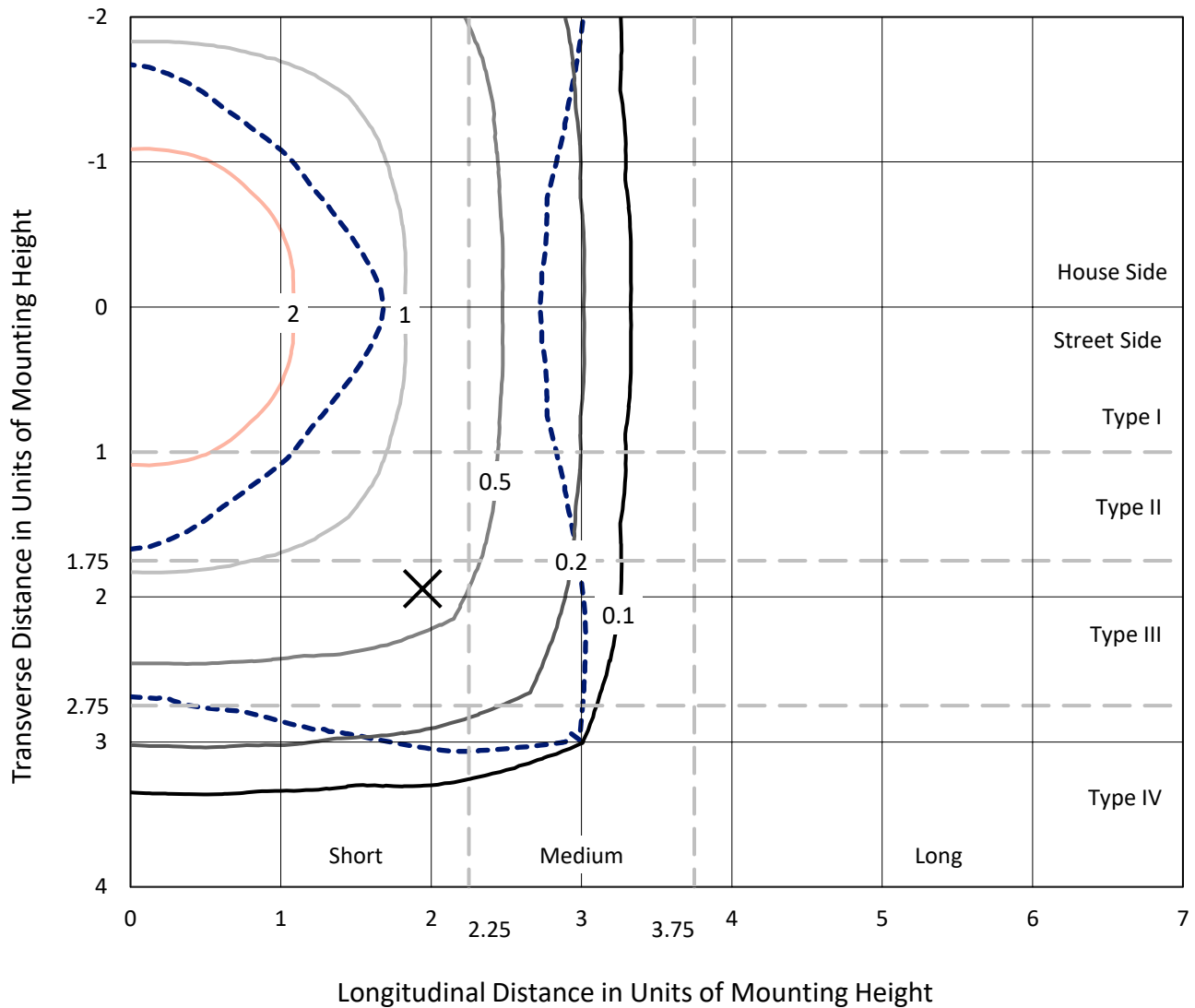


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

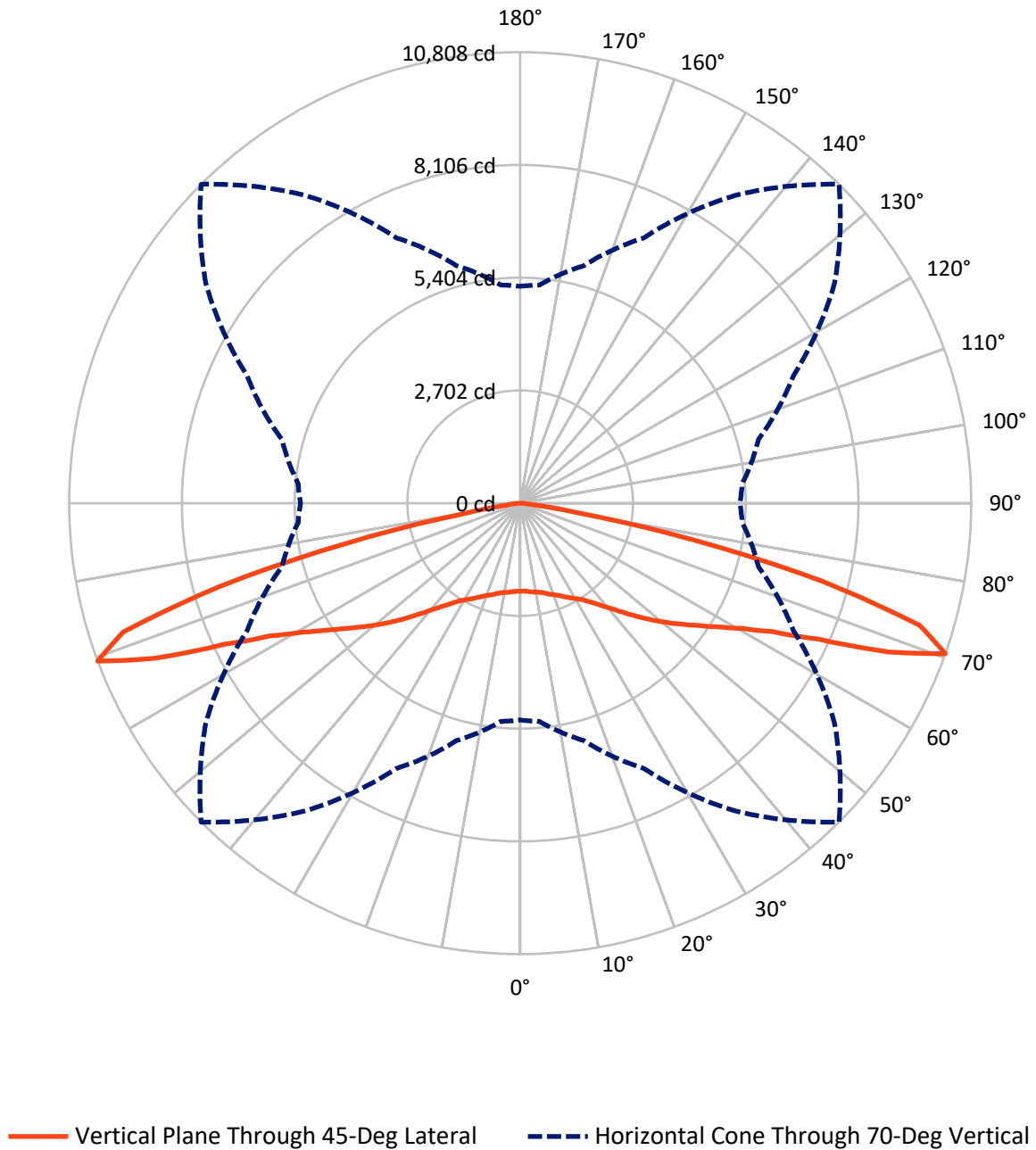


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11005.5	0.0	11005.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11005.5	0.0	11005.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22011.0	0.0	22011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	0.9
10°-20°	635.2	2.9
20°-30°	1135.1	5.2
30°-40°	1840.0	8.4
40°-50°	2997.1	13.6
50°-60°	4569.5	20.8
60°-70°	6798.0	30.9
70°-80°	3705.1	16.8
80°-90°	126.2	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°	22011.0	100.0
0°-180°	22011.0	100.0

Coefficient of Utilization



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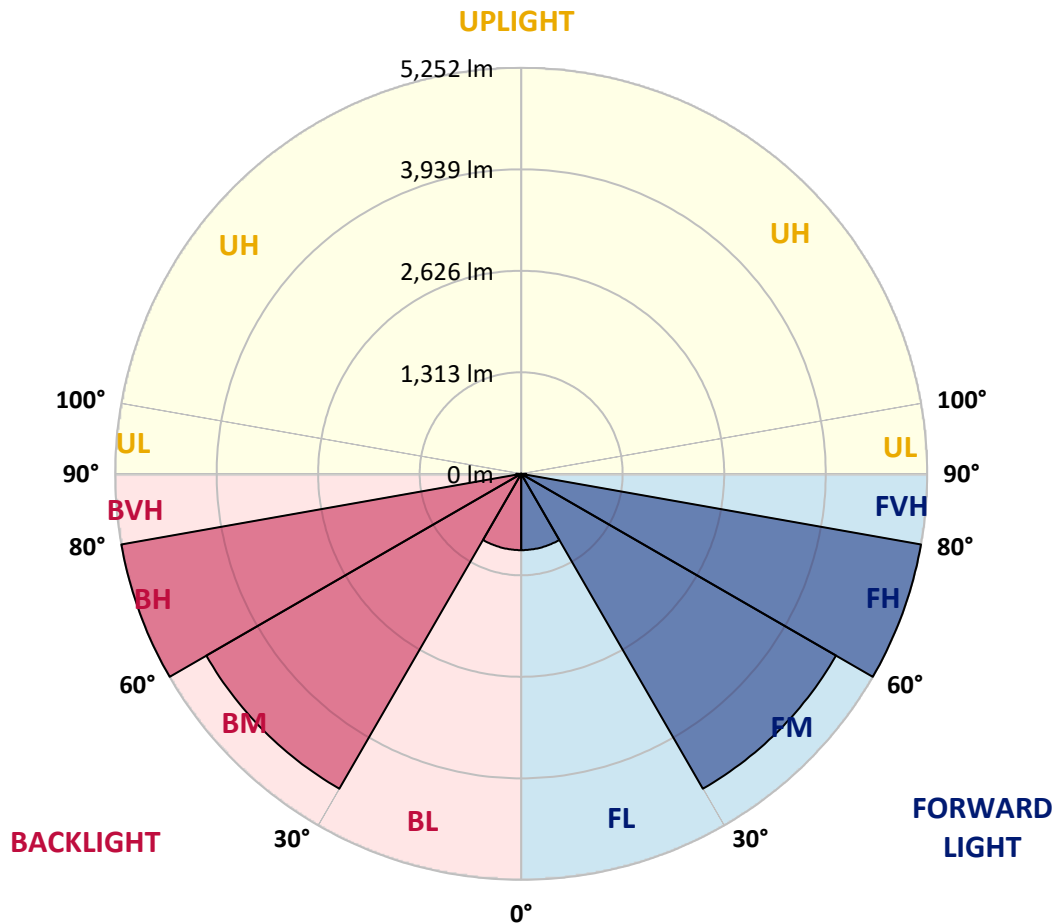
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	987.6	4.5			
FM	(30°-60°)	4703.3	21.4			
FH	(60°-80°)	5251.6	23.9			G3/7500
FVH	(80°-90°)	63.1	0.3			G1/100
BL	(0°-30°)	987.6	4.5	B2/1000		
BM	(30°-60°)	4703.3	21.4	B3/5000		
BH	(60°-80°)	5251.6	23.9	B5		G3/7500
BVH	(80°-90°)	63.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4
2.5°	2118.4	2120.6	2116.2	2114.0	2111.7	2108.4	2109.5	2115.1	2119.5	2118.4	2119.5
5°	2136.1	2138.3	2134.9	2133.8	2129.4	2128.3	2128.3	2133.8	2137.2	2134.9	2136.1
7.5°	2155.9	2159.3	2153.7	2152.6	2150.4	2148.2	2147.1	2152.6	2155.9	2155.9	2155.9
10°	2174.7	2178.0	2173.6	2170.3	2168.1	2168.1	2165.9	2170.3	2175.8	2174.7	2174.7
12.5°	2194.6	2196.8	2192.4	2190.2	2190.2	2193.5	2190.2	2192.4	2196.8	2194.6	2193.5
15°	2218.9	2220.0	2218.9	2222.2	2227.8	2238.8	2228.9	2226.7	2228.9	2223.4	2223.4
17.5°	2252.1	2254.3	2258.7	2266.4	2274.2	2294.1	2276.4	2270.9	2270.9	2259.8	2259.8
20°	2293.0	2296.3	2302.9	2316.2	2326.1	2344.9	2327.2	2319.5	2316.2	2301.8	2301.8
22.5°	2336.1	2341.6	2351.5	2369.2	2386.9	2404.6	2386.9	2373.6	2363.7	2344.9	2343.8
25°	2385.8	2392.4	2407.9	2436.6	2460.9	2486.4	2465.4	2438.8	2418.9	2392.4	2391.3
27.5°	2456.5	2464.3	2483.0	2518.4	2549.3	2571.4	2551.5	2517.3	2489.7	2457.6	2456.5
30°	2556.0	2563.7	2585.8	2623.4	2644.4	2658.7	2645.5	2619.0	2585.8	2549.3	2549.3
32.5°	2684.2	2694.1	2718.4	2753.8	2758.2	2760.4	2756.0	2742.7	2718.4	2674.2	2675.3
35°	2846.6	2857.6	2885.3	2914.0	2909.6	2914.0	2907.4	2903.0	2885.3	2834.4	2834.4
37.5°	3045.5	3058.8	3087.5	3109.6	3098.5	3093.0	3094.1	3095.2	3085.3	3028.9	3028.9
40°	3276.5	3294.1	3315.1	3338.3	3319.6	3303.0	3314.0	3322.9	3314.0	3256.6	3256.6
42.5°	3514.0	3539.5	3561.6	3594.7	3579.2	3558.2	3573.7	3583.7	3564.9	3503.0	3507.4
45°	3778.1	3802.5	3831.2	3880.9	3869.9	3847.8	3869.9	3872.1	3840.0	3767.1	3774.8
47.5°	4051.1	4076.5	4119.6	4185.9	4181.5	4157.2	4185.9	4170.4	4129.6	4042.3	4036.7
50°	4309.7	4345.0	4411.3	4504.2	4513.0	4483.2	4521.8	4492.0	4423.5	4314.1	4311.9
52.5°	4552.8	4590.4	4695.3	4821.3	4853.4	4814.7	4866.6	4814.7	4711.9	4571.6	4558.3
55°	4808.1	4850.0	4974.9	5139.6	5203.7	5174.9	5223.5	5145.1	4999.2	4829.0	4805.8
57.5°	5108.6	5134.0	5283.2	5478.8	5587.1	5593.7	5615.8	5483.2	5306.4	5113.0	5086.5
60°	5434.6	5470.0	5632.4	5866.7	6038.0	6093.2	6070.0	5873.3	5667.8	5445.7	5410.3
62.5°	5852.3	5891.0	6085.5	6366.2	6636.9	6773.9	6683.3	6398.2	6144.1	5877.7	5831.3
65°	6198.2	6241.3	6592.7	7093.3	7586.1	7861.3	7633.7	7108.8	6651.3	6275.6	6213.7
67.5°	5947.4	6000.4	6551.8	7471.2	8696.7	9517.8	8738.7	7583.9	6687.7	6178.3	6102.1
70°	5198.1	5247.9	5891.0	7014.8	9009.4	10808.4	9197.3	7221.5	5912.0	5341.8	5265.5
72.5°	3451.1	3611.3	4262.2	5610.3	8044.7	10001.8	8124.3	5496.5	3953.9	3443.3	3331.7
75°	1144.8	1273.0	1717.2	2908.5	5388.2	7480.1	5129.6	2573.6	1360.3	979.1	926.0
77.5°	288.4	332.6	458.6	832.1	2149.3	4258.8	1934.9	679.6	370.2	258.6	231.0
80°	140.3	154.7	221.0	277.4	538.2	1353.7	505.0	260.8	174.6	134.8	123.8
82.5°	77.4	78.5	124.9	156.9	200.0	350.3	207.7	152.5	100.6	81.8	81.8
85°	47.5	46.4	66.3	84.0	84.0	124.9	99.5	84.0	57.5	50.8	53.0
87.5°	18.8	18.8	24.3	26.5	23.2	32.0	25.4	27.6	22.1	21.0	22.1
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)