

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: P942800

Luminaire Tested: **GALN-SB7A-727-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29930 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 199.1
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



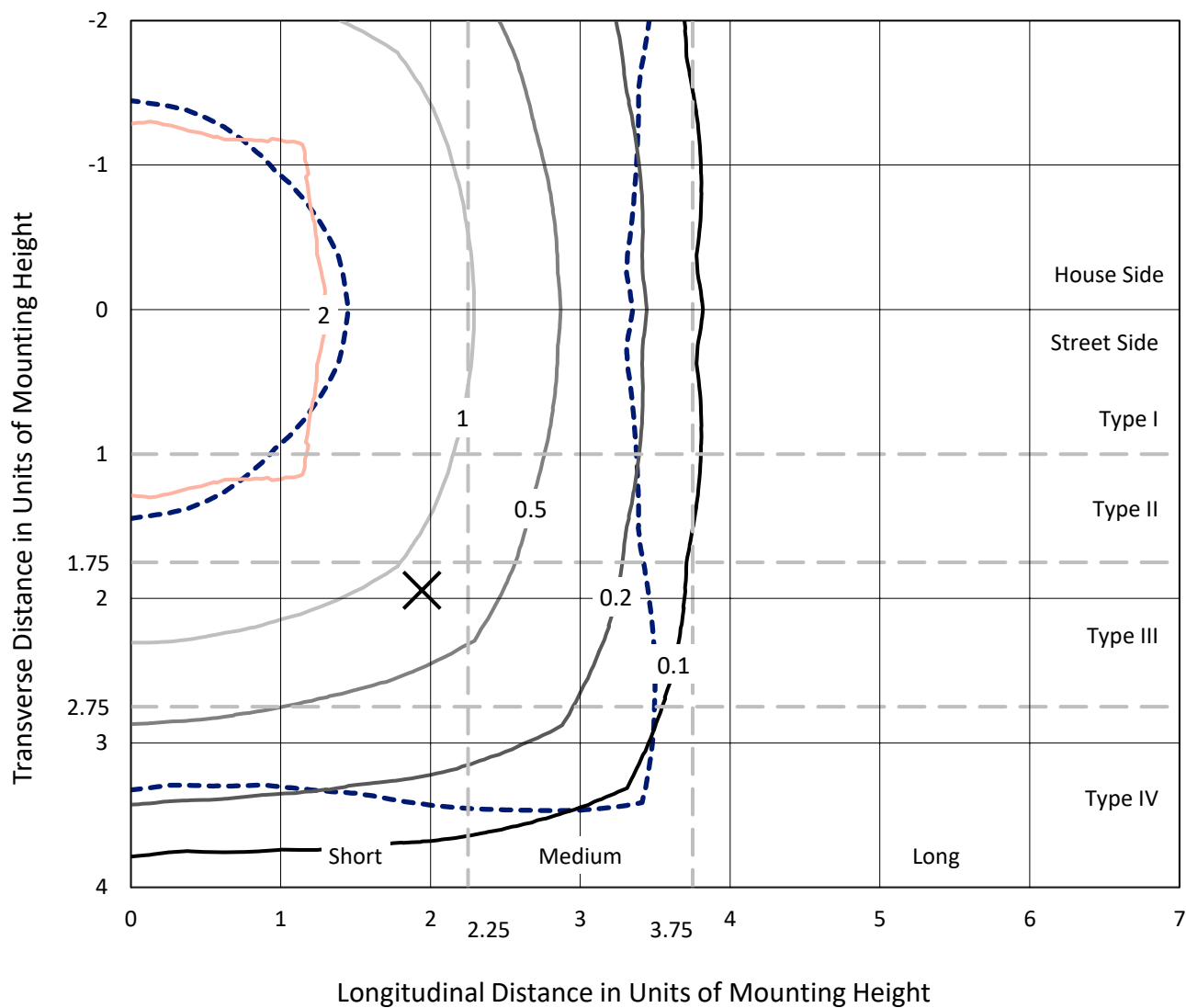
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

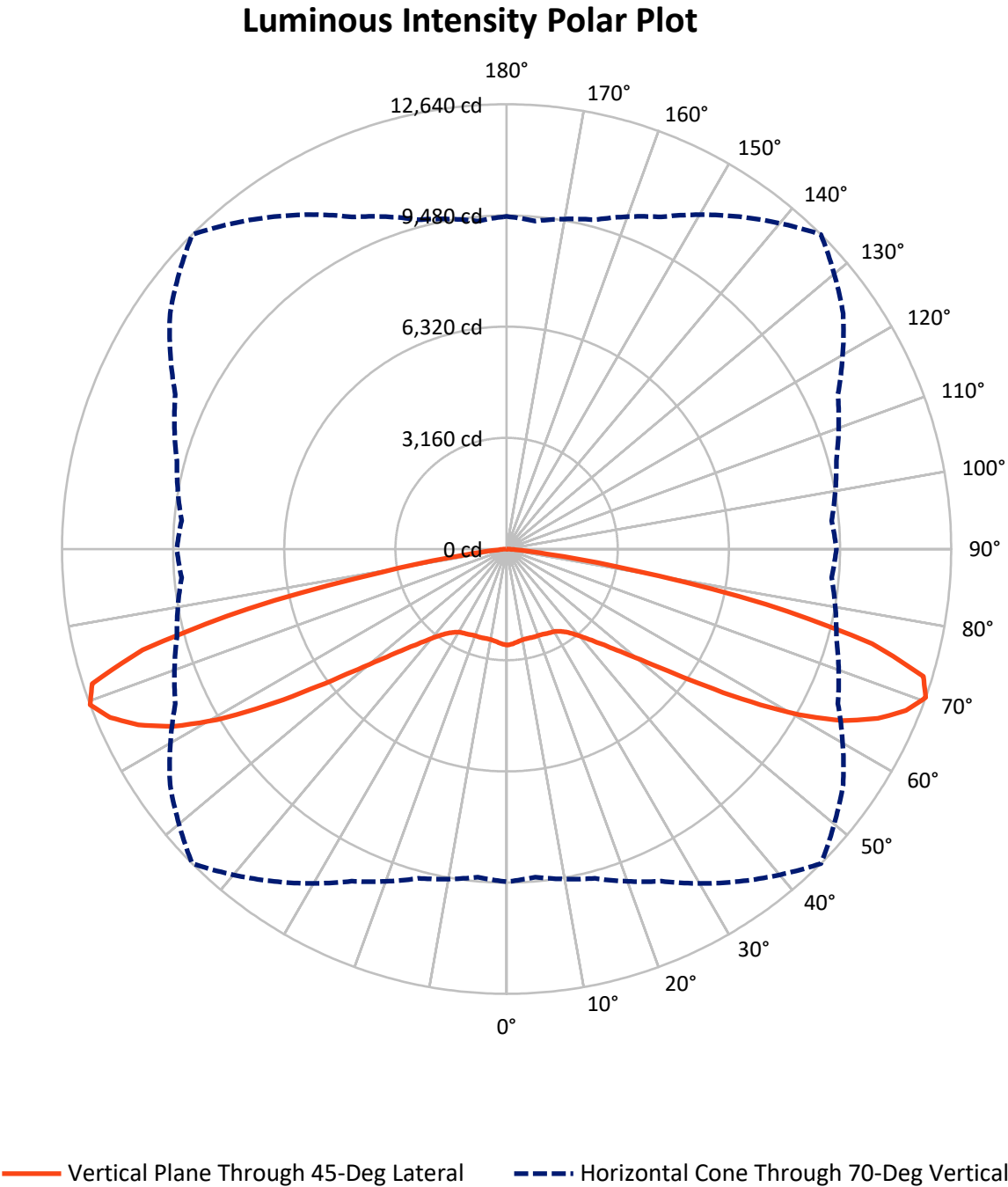
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc

Type V - Short - N/A

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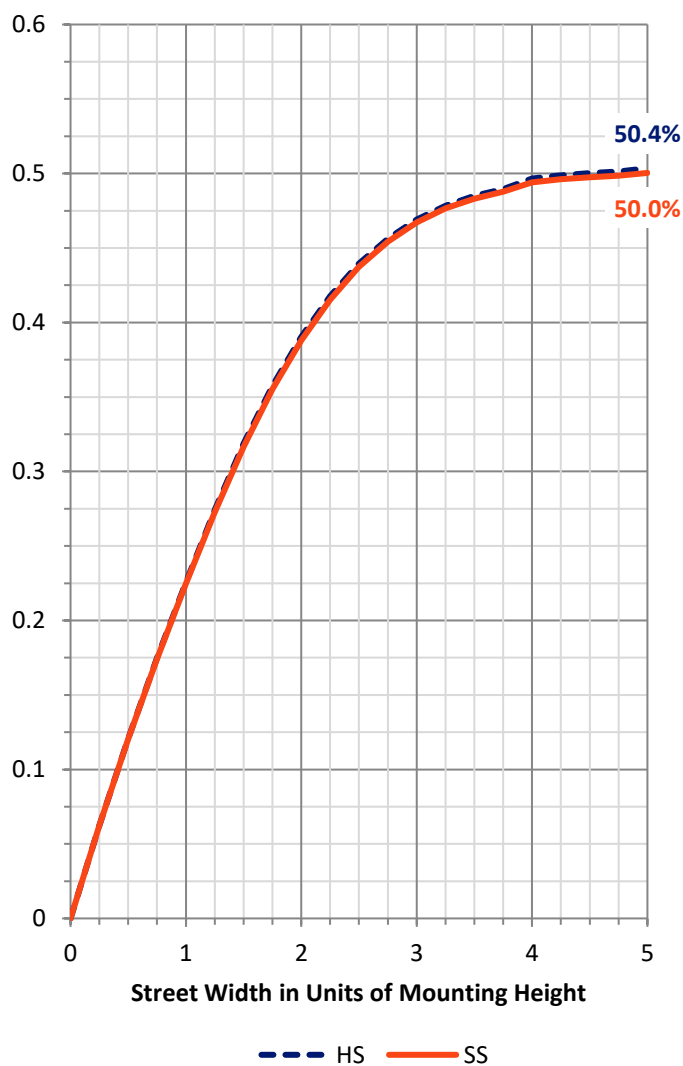
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14965.0	0.0	14965.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14965.0	0.0	14965.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29930.0	0.0	29930.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	0.8
10°-20°	745.7	2.5
20°-30°	1241.0	4.1
30°-40°	1876.8	6.3
40°-50°	3118.8	10.4
50°-60°	5885.0	19.7
60°-70°	9937.0	33.2
70°-80°	6529.7	21.8
80°-90°	342.1	1.1
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°	29930.0	100.0
0°-180°	29930.0	100.0

Coefficient of Utilization



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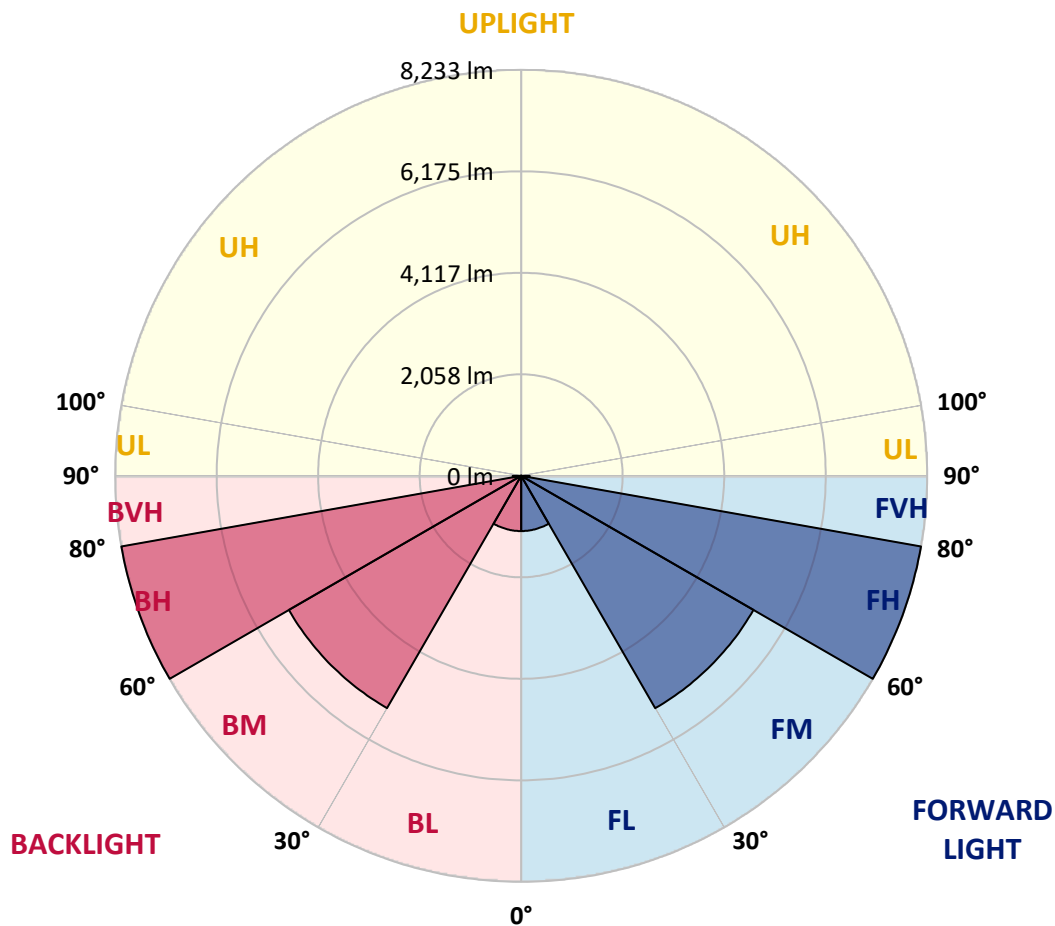
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1120.4	3.7			
FM	(30°-60°)	5440.3	18.2			
FH	(60°-80°)	8233.3	27.5			G4/12000
FVH	(80°-90°)	171.0	0.6			G2/225
BL	(0°-30°)	1120.4	3.7	B3/2500		
BM	(30°-60°)	5440.3	18.2	B4/8500		
BH	(60°-80°)	8233.3	27.5	B5		G4/12000
BVH	(80°-90°)	171.0	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2	2730.2
2.5°	2713.1	2720.9	2717.8	2711.6	2711.6	2706.9	2711.6	2714.7	2719.3	2722.4	2720.9
5°	2677.3	2683.5	2682.0	2677.3	2678.9	2674.2	2677.3	2682.0	2685.1	2686.7	2686.7
7.5°	2646.2	2652.4	2649.3	2641.5	2641.5	2636.9	2638.4	2643.1	2647.8	2649.3	2649.3
10°	2638.4	2644.7	2635.3	2622.9	2618.2	2612.0	2613.5	2618.2	2627.5	2632.2	2632.2
12.5°	2641.5	2646.2	2636.9	2618.2	2613.5	2607.3	2607.3	2612.0	2624.4	2630.7	2632.2
15°	2650.9	2655.5	2641.5	2621.3	2616.7	2612.0	2610.4	2616.7	2630.7	2641.5	2643.1
17.5°	2668.0	2672.7	2650.9	2622.9	2616.7	2618.2	2616.7	2621.3	2643.1	2663.3	2663.3
20°	2683.5	2686.7	2657.1	2622.9	2616.7	2618.2	2616.7	2626.0	2654.0	2682.0	2683.5
22.5°	2688.2	2691.3	2663.3	2633.8	2629.1	2630.7	2629.1	2638.4	2664.9	2692.9	2692.9
25°	2689.8	2694.4	2672.7	2649.3	2657.1	2660.2	2657.1	2658.7	2678.9	2703.8	2702.2
27.5°	2713.1	2719.3	2699.1	2678.9	2683.5	2682.0	2686.7	2691.3	2706.9	2731.8	2725.6
30°	2761.3	2766.0	2748.9	2728.7	2725.6	2714.7	2728.7	2744.2	2761.3	2783.1	2778.4
32.5°	2840.7	2850.0	2828.2	2806.4	2792.4	2786.2	2797.1	2823.6	2846.9	2870.2	2860.9
35°	2972.9	2979.1	2958.9	2918.5	2893.6	2893.6	2902.9	2937.1	2974.5	3004.0	2993.1
37.5°	3159.6	3167.4	3131.6	3083.4	3046.0	3046.0	3058.5	3094.2	3150.3	3192.3	3176.7
40°	3386.7	3397.6	3352.5	3302.7	3266.9	3260.7	3276.3	3316.7	3369.6	3422.5	3405.4
42.5°	3660.5	3673.0	3613.8	3570.3	3542.3	3542.3	3550.1	3587.4	3635.6	3701.0	3696.3
45°	4010.5	4032.3	3951.4	3907.9	3881.4	3887.6	3892.3	3925.0	3968.5	4043.2	4040.1
47.5°	4427.5	4449.2	4363.7	4318.6	4313.9	4343.5	4324.8	4348.1	4371.5	4457.0	4432.1
50°	4900.4	4937.7	4878.6	4875.5	4884.8	4939.3	4895.7	4908.2	4881.7	4936.2	4903.5
52.5°	5479.1	5533.6	5522.7	5541.3	5645.6	5757.6	5658.0	5614.4	5514.9	5532.0	5474.4
55°	6180.7	6263.2	6278.7	6390.7	6627.2	6855.9	6644.3	6468.5	6256.9	6218.1	6157.4
57.5°	6978.8	7044.1	7118.8	7347.5	7789.3	8195.3	7789.3	7400.4	7067.5	6988.1	6932.1
60°	7837.5	7918.4	7990.0	8327.6	8984.1	9555.0	8971.6	8354.0	7913.7	7806.4	7713.1
62.5°	8760.0	8864.3	8914.0	9289.0	10054.4	10735.7	10065.3	9317.0	8828.5	8713.4	8620.0
65°	9645.2	9730.8	9786.8	10186.6	10917.8	11600.7	10967.5	10230.2	9727.7	9576.8	9502.1
67.5°	10057.5	10104.1	10241.0	10693.7	11465.4	12244.8	11596.0	10742.0	10180.4	9915.9	9919.0
70°	9453.9	9359.0	9688.8	10413.7	11530.7	12639.9	11680.0	10391.9	9704.3	9275.0	9377.6
72.5°	7305.5	7142.1	7714.6	8954.5	10784.0	12387.9	10858.6	9024.5	8070.9	7199.7	7415.9
75°	3974.8	3789.6	4579.9	6148.0	8599.8	10737.3	8797.4	6323.8	5099.5	3945.2	4201.9
77.5°	1121.6	1051.6	1689.5	2974.5	5172.6	7538.8	5371.8	3039.8	2003.7	1188.5	1320.8
80°	343.8	332.9	451.1	896.1	2196.6	3610.7	2111.1	907.0	574.0	362.5	382.7
82.5°	203.8	186.7	224.0	326.7	560.0	1134.1	544.5	340.7	273.8	183.6	199.1
85°	116.7	108.9	132.2	158.7	188.2	241.1	157.1	161.8	146.2	98.0	102.7
87.5°	48.2	43.6	51.3	49.8	43.6	56.0	42.0	49.8	59.1	38.9	35.8
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)